

Appendix A Table 1 Total Pumping By County, Layer, and Year
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Anderson County	1980	97.3	548.6	2,071.3	790.8	281.0	64.7	3,853.7
Anderson County	1981	111.7	574.1	2,404.0	849.5	264.2	63.5	4,267.0
Anderson County	1982	121.2	582.1	2,550.4	851.5	201.4	63.5	4,370.1
Anderson County	1983	130.7	588.1	2,660.9	817.6	155.5	67.5	4,420.3
Anderson County	1984	128.3	602.8	2,863.7	894.9	173.0	77.7	4,740.4
Anderson County	1985	137.7	606.1	2,854.8	872.6	136.6	74.5	4,682.3
Anderson County	1986	153.0	601.1	2,857.1	860.6	167.5	75.5	4,714.9
Anderson County	1987	151.9	604.7	2,857.2	804.8	126.2	84.1	4,628.9
Anderson County	1988	139.1	625.2	2,920.1	879.1	197.1	94.3	4,854.8
Anderson County	1989	138.9	654.5	3,039.0	880.8	171.1	89.8	4,974.0
Anderson County	1990	150.5	676.3	3,157.4	857.5	137.0	85.3	5,063.9
Anderson County	1991	150.9	677.3	3,134.9	860.2	150.2	81.5	5,055.1
Anderson County	1992	168.1	738.4	3,217.6	891.4	152.6	93.5	5,261.8
Anderson County	1993	179.2	749.1	3,345.9	992.5	184.9	105.8	5,557.4
Anderson County	1994	166.5	715.0	3,304.2	938.8	173.0	101.1	5,398.6
Anderson County	1995	155.3	716.2	3,361.4	1,007.1	212.2	112.0	5,564.4
Anderson County	1996	167.2	728.0	3,436.7	1,073.2	204.4	120.2	5,729.6
Anderson County	1997	160.2	742.6	3,469.1	1,116.0	220.7	114.3	5,822.9
Anderson County	1998	168.0	760.9	3,665.9	1,055.6	201.5	141.7	5,993.6
Anderson County	1999	162.5	770.2	3,337.7	1,064.5	193.4	127.7	5,656.2
Anderson County	2000	44.1	542.6	2,991.4	879.7	148.3	94.6	4,700.7
Anderson County	2001	42.7	543.3	3,099.7	1,005.3	227.8	116.0	5,034.8
Anderson County	2002	43.1	556.7	3,216.0	1,136.9	209.8	132.3	5,294.8
Anderson County	2003	43.3	585.5	3,394.1	1,238.9	264.2	125.5	5,651.4
Anderson County	2004	47.2	613.9	3,726.2	1,112.4	221.5	190.3	5,911.4
Anderson County	2005	48.8	626.6	3,267.5	1,124.3	200.7	156.0	5,423.9
Anderson County	2006	53.7	697.8	3,629.6	1,250.3	223.2	173.7	6,028.3
Anderson County	2007	47.6	624.0	3,246.5	1,118.2	200.2	155.6	5,392.2
Anderson County	2008	51.6	669.6	3,483.4	1,199.8	214.4	166.6	5,785.3
Anderson County	2009	44.9	606.1	3,154.6	1,087.7	194.2	151.0	5,238.5
Anderson County	2010	49.1	663.9	3,453.9	1,190.0	212.2	165.7	5,734.8
Anderson County	2011	55.0	732.9	3,808.8	1,313.7	234.7	183.4	6,328.4
Anderson County	2012	50.6	672.1	3,495.3	1,205.8	214.9	168.2	5,806.9
Anderson County	2013	48.8	628.3	3,272.2	1,126.6	200.9	156.2	5,433.1

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Bossier Parish	1980	--	--	--	1.7	21.1	21.2	44.0
Bossier Parish	1981	--	--	--	1.7	21.1	21.1	43.9
Bossier Parish	1982	--	--	--	1.7	21.1	21.1	43.9
Bossier Parish	1983	--	--	--	1.7	21.1	21.1	43.9
Bossier Parish	1984	--	--	--	1.7	21.1	21.2	44.0
Bossier Parish	1985	--	--	--	1.7	21.1	21.1	43.9
Bossier Parish	1986	--	--	--	1.7	21.1	21.1	43.9
Bossier Parish	1987	--	--	--	1.7	24.0	24.8	50.5
Bossier Parish	1988	--	--	--	1.7	14.1	12.4	28.2
Bossier Parish	1989	--	--	--	1.7	18.7	18.2	38.6
Bossier Parish	1990	--	--	--	1.7	16.5	15.5	33.7
Bossier Parish	1991	--	--	--	0.0	0.3	0.3	0.6
Bossier Parish	1992	--	--	--	1.7	10.6	7.9	20.1
Bossier Parish	1993	--	--	--	1.7	12.9	10.9	25.5
Bossier Parish	1994	--	--	--	1.7	28.3	29.9	59.9
Bossier Parish	1995	--	--	--	1.6	10.4	8.2	20.3
Bossier Parish	1996	--	--	--	1.7	8.1	5.3	15.0
Bossier Parish	1997	--	--	--	1.7	3.4	1.0	6.1
Bossier Parish	1998	--	--	--	1.7	17.1	16.4	35.2
Bossier Parish	1999	--	--	--	1.7	17.8	17.3	36.8
Bossier Parish	2000	--	--	--	2.0	8.8	6.3	17.1
Bossier Parish	2001	--	--	--	1.7	16.5	15.9	34.1
Bossier Parish	2002	--	--	--	1.7	18.4	18.3	38.4
Bossier Parish	2003	--	--	--	1.7	5.6	3.1	10.3
Bossier Parish	2004	--	--	--	1.7	14.1	12.8	28.6
Bossier Parish	2005	--	--	--	2.5	16.8	16.0	35.3
Bossier Parish	2006	--	--	--	2.6	17.7	16.9	37.2
Bossier Parish	2007	--	--	--	2.5	16.7	16.0	35.2
Bossier Parish	2008	--	--	--	2.6	17.4	16.6	36.5
Bossier Parish	2009	--	--	--	2.4	16.5	15.8	34.7
Bossier Parish	2010	--	--	--	2.6	17.3	16.5	36.3
Bossier Parish	2011	--	--	--	2.7	18.1	17.3	38.1
Bossier Parish	2012	--	--	--	2.6	17.4	16.6	36.6
Bossier Parish	2013	--	--	--	2.5	16.8	16.0	35.3

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Bowie County	1980	--	--	--	1,601.8	972.4	280.8	2,855.1
Bowie County	1981	--	--	--	1,708.5	1,040.8	251.0	3,000.3
Bowie County	1982	--	--	--	1,738.5	1,055.9	275.0	3,069.4
Bowie County	1983	--	--	--	1,792.5	1,090.9	284.1	3,167.5
Bowie County	1984	--	--	--	1,233.7	1,124.0	281.8	2,639.5
Bowie County	1985	--	--	--	1,008.3	1,124.9	249.9	2,383.2
Bowie County	1986	--	--	--	984.3	1,111.9	269.0	2,365.2
Bowie County	1987	--	--	--	1,002.0	1,108.3	252.6	2,362.9
Bowie County	1988	--	--	--	988.0	1,097.5	249.2	2,334.6
Bowie County	1989	--	--	--	1,055.1	1,167.6	253.7	2,476.5
Bowie County	1990	--	--	--	1,084.0	1,230.9	262.7	2,577.6
Bowie County	1991	--	--	--	1,330.1	1,207.0	291.7	2,828.8
Bowie County	1992	--	--	--	1,307.3	1,155.6	244.1	2,707.0
Bowie County	1993	--	--	--	1,345.7	1,206.0	261.9	2,813.6
Bowie County	1994	--	--	--	1,338.1	1,209.3	275.8	2,823.2
Bowie County	1995	--	--	--	1,383.3	1,241.4	249.1	2,873.8
Bowie County	1996	--	--	--	1,372.8	1,265.5	312.8	2,951.2
Bowie County	1997	--	--	--	1,425.0	1,262.7	223.5	2,911.3
Bowie County	1998	--	--	--	1,393.7	1,234.8	271.4	2,899.8
Bowie County	1999	--	--	--	1,327.8	1,181.1	271.4	2,780.4
Bowie County	2000	--	--	--	2,065.0	575.4	135.5	2,775.8
Bowie County	2001	--	--	--	2,198.8	596.6	122.3	2,917.7
Bowie County	2002	--	--	--	2,155.4	646.7	218.0	3,020.2
Bowie County	2003	--	--	--	2,334.4	605.0	92.8	3,032.2
Bowie County	2004	--	--	--	2,241.8	606.4	121.0	2,969.2
Bowie County	2005	--	--	--	2,028.9	556.2	120.6	2,705.7
Bowie County	2006	--	--	--	2,256.6	619.2	134.9	3,010.7
Bowie County	2007	--	--	--	2,017.8	553.8	120.3	2,691.9
Bowie County	2008	--	--	--	2,165.5	594.0	129.1	2,888.5
Bowie County	2009	--	--	--	1,961.3	538.2	116.5	2,616.0
Bowie County	2010	--	--	--	2,147.7	589.8	128.4	2,865.9
Bowie County	2011	--	--	--	2,370.1	649.6	141.7	3,161.4
Bowie County	2012	--	--	--	2,175.4	596.3	129.4	2,901.1
Bowie County	2013	--	--	--	2,033.2	557.8	120.7	2,711.7

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Caddo Parish	1980	--	8.9	94.7	578.5	2,008.7	902.6	3,593.4
Caddo Parish	1981	--	8.9	94.5	576.9	2,003.2	900.2	3,583.6
Caddo Parish	1982	--	8.9	94.5	576.9	2,003.2	900.2	3,583.7
Caddo Parish	1983	--	8.9	94.5	576.9	2,003.2	900.2	3,583.6
Caddo Parish	1984	--	8.9	94.7	578.5	2,008.7	902.6	3,593.5
Caddo Parish	1985	--	8.9	94.5	576.9	2,003.2	900.2	3,583.7
Caddo Parish	1986	--	8.9	94.5	576.9	2,003.2	900.2	3,583.6
Caddo Parish	1987	--	10.1	99.4	647.2	2,132.7	948.8	3,838.2
Caddo Parish	1988	--	11.2	81.7	398.5	1,636.5	745.0	2,872.9
Caddo Parish	1989	--	12.3	89.9	517.2	1,858.7	830.6	3,308.7
Caddo Parish	1990	--	13.5	85.7	460.7	1,741.4	778.6	3,079.9
Caddo Parish	1991	--	15.1	71.1	258.9	1,376.7	632.0	2,353.8
Caddo Parish	1992	--	15.7	73.6	294.1	1,408.5	632.4	2,424.4
Caddo Parish	1993	--	16.8	78.1	360.3	1,513.7	676.4	2,645.4
Caddo Parish	1994	--	18.0	79.7	689.2	2,175.1	991.3	3,953.3
Caddo Parish	1995	--	18.9	297.3	260.9	1,252.7	629.6	2,459.4
Caddo Parish	1996	--	18.3	579.8	191.4	1,186.7	610.3	2,586.6
Caddo Parish	1997	--	19.4	488.7	187.9	1,166.8	594.7	2,457.6
Caddo Parish	1998	--	20.6	1,357.0	355.0	1,601.4	814.9	4,148.9
Caddo Parish	1999	--	21.7	226.6	373.5	1,629.2	821.9	3,072.9
Caddo Parish	2000	--	22.4	275.8	195.2	1,302.4	650.6	2,446.3
Caddo Parish	2001	--	24.1	283.4	340.4	1,546.3	779.6	2,973.8
Caddo Parish	2002	--	25.2	242.1	388.7	1,632.6	809.9	3,098.7
Caddo Parish	2003	--	26.4	283.1	170.6	1,003.9	431.7	1,915.7
Caddo Parish	2004	--	27.6	293.9	314.5	1,281.7	541.4	2,459.1
Caddo Parish	2005	--	29.2	302.5	453.9	1,571.1	684.7	3,041.3
Caddo Parish	2006	--	30.7	319.1	478.7	1,657.2	722.2	3,208.0
Caddo Parish	2007	--	29.1	301.7	452.7	1,567.1	683.0	3,033.6
Caddo Parish	2008	--	30.2	313.0	469.6	1,625.5	708.4	3,146.6
Caddo Parish	2009	--	28.7	297.5	446.3	1,545.0	673.4	2,990.9
Caddo Parish	2010	--	30.0	311.3	467.1	1,616.8	704.6	3,129.7
Caddo Parish	2011	--	31.5	327.0	490.6	1,698.3	740.1	3,287.5
Caddo Parish	2012	--	30.2	313.7	470.6	1,629.1	710.0	3,153.6
Caddo Parish	2013	--	29.2	302.8	454.4	1,572.9	685.5	3,044.8

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Camp County	1980	--	566.5	492.7	402.7	536.9	0.0	1,998.8
Camp County	1981	--	575.8	514.3	413.6	565.5	0.0	2,069.2
Camp County	1982	--	569.8	533.8	400.6	529.5	0.0	2,033.8
Camp County	1983	--	560.9	548.7	417.6	554.6	0.0	2,081.9
Camp County	1984	--	530.6	638.2	521.0	646.2	0.0	2,336.0
Camp County	1985	--	498.6	617.6	502.5	626.7	0.0	2,245.4
Camp County	1986	--	592.4	598.1	474.6	593.6	0.0	2,258.6
Camp County	1987	--	502.2	625.8	472.5	585.4	0.0	2,185.9
Camp County	1988	--	427.7	632.5	489.0	619.0	0.0	2,168.1
Camp County	1989	--	408.8	626.7	459.7	573.9	0.0	2,069.0
Camp County	1990	--	461.1	644.8	490.6	604.0	4.8	2,205.3
Camp County	1991	--	430.0	648.7	522.2	666.5	4.7	2,272.1
Camp County	1992	--	523.5	672.1	402.1	408.2	4.8	2,010.7
Camp County	1993	--	552.1	674.6	397.8	428.0	1.9	2,054.4
Camp County	1994	--	637.0	674.3	423.8	475.8	1.0	2,212.0
Camp County	1995	--	633.8	692.5	373.6	367.2	0.9	2,068.0
Camp County	1996	--	776.4	707.8	358.7	330.7	1.1	2,174.7
Camp County	1997	--	658.9	695.0	384.1	392.9	1.1	2,131.9
Camp County	1998	--	740.7	724.8	394.8	372.8	4.3	2,237.5
Camp County	1999	--	778.5	728.3	360.8	315.5	1.6	2,184.7
Camp County	2000	--	179.5	549.6	455.0	532.4	0.3	1,716.9
Camp County	2001	--	173.0	569.7	353.3	319.4	0.3	1,415.8
Camp County	2002	--	199.6	592.8	323.9	257.6	0.5	1,374.2
Camp County	2003	--	164.9	589.3	372.6	362.3	0.5	1,489.5
Camp County	2004	--	166.7	649.1	394.9	327.5	7.0	1,545.2
Camp County	2005	--	174.1	648.4	329.7	235.1	1.9	1,389.2
Camp County	2006	--	183.6	721.6	367.0	261.3	2.1	1,535.5
Camp County	2007	--	167.4	645.5	328.0	233.8	1.9	1,376.6
Camp County	2008	--	176.9	692.5	352.4	250.9	2.0	1,474.7
Camp County	2009	--	155.9	626.7	318.9	227.5	1.9	1,331.0
Camp County	2010	--	169.5	686.2	349.6	248.8	2.0	1,456.2
Camp County	2011	--	178.1	758.1	385.9	274.9	2.1	1,599.1
Camp County	2012	--	174.1	695.3	354.2	252.2	2.0	1,477.7
Camp County	2013	--	174.3	650.3	331.0	235.4	1.9	1,392.9

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Cass County	1980	--	545.7	1,200.7	595.6	1,250.6	647.1	4,239.7
Cass County	1981	--	545.2	1,333.6	635.0	1,252.2	631.3	4,397.4
Cass County	1982	--	533.2	1,368.7	672.8	1,370.2	697.4	4,642.2
Cass County	1983	--	515.2	1,378.6	638.6	1,386.1	740.4	4,658.9
Cass County	1984	--	503.6	1,444.5	675.4	1,318.8	786.6	4,728.8
Cass County	1985	--	475.2	1,399.5	670.5	1,361.2	775.4	4,681.8
Cass County	1986	--	465.2	1,366.5	649.5	1,293.1	755.4	4,529.7
Cass County	1987	--	464.1	1,362.8	633.7	1,317.3	749.0	4,527.1
Cass County	1988	--	486.0	1,421.0	672.9	1,340.7	699.5	4,620.1
Cass County	1989	--	499.0	1,451.5	685.3	1,288.3	695.6	4,619.7
Cass County	1990	--	503.5	1,469.6	700.7	1,243.6	656.1	4,573.5
Cass County	1991	--	499.8	1,450.2	654.3	1,070.6	529.2	4,204.1
Cass County	1992	--	499.1	1,446.0	645.0	785.9	299.9	3,675.8
Cass County	1993	--	504.8	1,481.0	657.0	720.4	230.9	3,594.0
Cass County	1994	--	518.5	1,481.3	660.7	702.4	205.1	3,568.1
Cass County	1995	--	508.1	1,476.7	707.9	741.5	257.1	3,691.2
Cass County	1996	--	521.0	1,504.4	653.0	694.8	230.6	3,603.9
Cass County	1997	--	509.5	1,503.7	681.1	718.1	230.9	3,643.3
Cass County	1998	--	520.1	1,535.6	704.9	731.0	129.2	3,620.8
Cass County	1999	--	525.0	1,536.3	684.2	374.6	175.7	3,295.9
Cass County	2000	--	494.7	1,191.3	644.1	689.7	182.1	3,202.0
Cass County	2001	--	473.0	1,184.4	738.5	764.4	286.3	3,446.7
Cass County	2002	--	495.6	1,220.0	624.3	668.3	228.9	3,237.0
Cass County	2003	--	471.3	1,221.7	683.2	717.1	231.4	3,324.7
Cass County	2004	--	495.2	1,281.5	732.3	745.3	72.5	3,326.8
Cass County	2005	--	502.0	1,282.3	691.4	196.1	134.2	2,806.0
Cass County	2006	--	559.1	1,427.3	768.9	217.8	149.6	3,122.7
Cass County	2007	--	499.7	1,275.9	687.5	195.0	133.9	2,792.0
Cass County	2008	--	536.6	1,368.7	738.0	209.3	143.6	2,996.2
Cass County	2009	--	485.5	1,240.5	668.6	189.7	129.8	2,714.1
Cass County	2010	--	531.5	1,358.2	731.9	207.7	142.1	2,971.3
Cass County	2011	--	587.5	1,498.7	807.2	228.8	156.6	3,278.9
Cass County	2012	--	538.8	1,375.0	740.7	210.3	143.9	3,008.8
Cass County	2013	--	503.6	1,285.8	692.2	196.3	134.4	2,812.3

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 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
De Soto Parish	1980	--	--	--	--	1,259.1	598.5	1,857.6
De Soto Parish	1981	--	--	--	--	1,255.6	596.9	1,852.5
De Soto Parish	1982	--	--	--	--	1,255.6	596.9	1,852.5
De Soto Parish	1983	--	--	--	--	1,255.6	596.9	1,852.5
De Soto Parish	1984	--	--	--	--	1,259.1	598.5	1,857.6
De Soto Parish	1985	--	--	--	--	1,255.6	596.9	1,852.5
De Soto Parish	1986	--	--	--	--	1,255.6	596.9	1,852.5
De Soto Parish	1987	--	--	--	--	1,386.8	609.5	1,996.3
De Soto Parish	1988	--	--	--	--	962.8	617.8	1,580.6
De Soto Parish	1989	--	--	--	--	1,177.8	629.2	1,806.9
De Soto Parish	1990	--	--	--	--	1,088.6	639.4	1,728.0
De Soto Parish	1991	--	--	--	--	678.0	594.0	1,272.0
De Soto Parish	1992	--	--	--	--	811.8	660.7	1,472.5
De Soto Parish	1993	--	--	--	--	939.8	671.6	1,611.4
De Soto Parish	1994	--	--	--	--	1,926.7	315.8	2,242.5
De Soto Parish	1995	--	--	--	--	1,573.3	335.5	1,908.8
De Soto Parish	1996	--	--	--	--	1,031.8	317.2	1,349.0
De Soto Parish	1997	--	--	--	--	858.4	318.3	1,176.7
De Soto Parish	1998	--	--	--	--	1,506.3	332.6	1,838.9
De Soto Parish	1999	--	--	--	--	1,550.3	325.3	1,875.6
De Soto Parish	2000	--	--	--	--	1,510.2	356.1	1,866.3
De Soto Parish	2001	--	--	--	--	1,523.4	334.3	1,857.7
De Soto Parish	2002	--	--	--	--	1,619.6	340.3	1,959.9
De Soto Parish	2003	--	--	--	--	1,019.1	325.1	1,344.2
De Soto Parish	2004	--	--	--	--	1,500.6	337.3	1,837.9
De Soto Parish	2005	--	--	--	--	2,047.5	323.8	2,371.4
De Soto Parish	2006	--	--	--	--	2,159.7	341.6	2,501.3
De Soto Parish	2007	--	--	--	--	2,042.3	323.0	2,365.3
De Soto Parish	2008	--	--	--	--	2,118.4	335.1	2,453.5
De Soto Parish	2009	--	--	--	--	2,013.6	318.5	2,332.0
De Soto Parish	2010	--	--	--	--	2,107.0	333.3	2,440.3
De Soto Parish	2011	--	--	--	--	2,213.2	350.1	2,563.3
De Soto Parish	2012	--	--	--	--	2,123.1	335.8	2,458.9
De Soto Parish	2013	--	--	--	--	2,049.8	324.2	2,374.0

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Franklin County	1980	--	--	195.9	91.2	873.3	172.9	1,333.3
Franklin County	1981	--	--	218.4	98.9	911.6	184.4	1,413.3
Franklin County	1982	--	--	229.3	102.9	932.8	190.4	1,455.5
Franklin County	1983	--	--	231.7	104.9	941.6	197.4	1,475.6
Franklin County	1984	--	--	230.8	111.2	953.0	213.1	1,508.1
Franklin County	1985	--	--	229.4	112.9	962.6	222.5	1,527.4
Franklin County	1986	--	--	274.3	111.9	988.6	206.5	1,581.2
Franklin County	1987	--	--	274.7	106.9	973.4	196.9	1,552.0
Franklin County	1988	--	--	244.7	110.3	968.5	203.7	1,527.2
Franklin County	1989	--	--	259.1	111.0	964.7	188.9	1,523.7
Franklin County	1990	--	--	271.3	130.1	974.6	261.8	1,637.8
Franklin County	1991	--	--	290.9	132.2	1,053.2	259.0	1,735.3
Franklin County	1992	--	--	275.7	146.6	1,072.4	321.4	1,816.1
Franklin County	1993	--	--	310.1	154.2	1,122.6	334.1	1,921.0
Franklin County	1994	--	--	338.1	145.2	1,122.1	292.3	1,897.7
Franklin County	1995	--	--	314.1	145.1	1,092.4	285.9	1,837.4
Franklin County	1996	--	--	398.1	146.8	1,147.4	285.2	1,977.4
Franklin County	1997	--	--	384.4	135.4	616.0	230.8	1,366.6
Franklin County	1998	--	--	391.5	152.4	804.5	295.4	1,643.7
Franklin County	1999	--	--	390.3	156.1	807.0	300.8	1,654.2
Franklin County	2000	--	--	146.4	145.8	698.8	124.0	1,115.0
Franklin County	2001	--	--	148.6	145.4	663.7	119.6	1,077.3
Franklin County	2002	--	--	155.3	147.8	674.0	116.8	1,094.0
Franklin County	2003	--	--	163.0	125.7	59.6	78.0	426.4
Franklin County	2004	--	--	173.0	161.4	187.1	127.2	648.7
Franklin County	2005	--	--	179.3	167.5	190.8	132.4	670.0
Franklin County	2006	--	--	194.6	187.4	209.4	145.3	736.7
Franklin County	2007	--	--	173.8	167.1	186.9	130.2	658.0
Franklin County	2008	--	--	183.8	179.6	199.7	139.7	702.8
Franklin County	2009	--	--	154.5	162.8	178.3	125.7	621.3
Franklin County	2010	--	--	163.5	177.6	194.6	138.1	673.7
Franklin County	2011	--	--	155.1	196.5	210.4	149.9	711.8
Franklin County	2012	--	--	154.1	180.0	196.6	140.1	670.8
Franklin County	2013	--	--	177.8	168.7	189.9	132.5	668.9

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Freestone County	1980	--	9.2	115.9	307.4	1,392.0	446.2	2,270.6
Freestone County	1981	--	9.2	115.5	306.5	1,388.2	445.0	2,264.4
Freestone County	1982	--	9.2	115.5	306.5	1,388.1	445.0	2,264.4
Freestone County	1983	--	9.2	115.5	306.5	1,388.1	445.0	2,264.4
Freestone County	1984	--	9.2	115.9	307.4	1,391.9	446.2	2,270.6
Freestone County	1985	--	9.2	115.5	306.5	1,388.1	445.0	2,264.4
Freestone County	1986	--	9.2	115.5	306.5	1,388.1	445.0	2,264.4
Freestone County	1987	--	9.5	116.4	313.7	1,503.8	458.0	2,401.3
Freestone County	1988	--	9.8	124.9	335.8	1,647.8	471.6	2,589.8
Freestone County	1989	--	10.1	123.0	345.3	1,610.9	506.2	2,595.6
Freestone County	1990	--	10.4	148.9	377.5	1,615.4	513.3	2,665.5
Freestone County	1991	--	8.3	129.0	358.7	1,765.8	532.9	2,794.8
Freestone County	1992	--	7.2	117.5	334.7	1,595.1	466.8	2,521.3
Freestone County	1993	--	7.1	126.6	332.8	1,580.2	476.0	2,522.7
Freestone County	1994	--	7.4	137.1	333.2	1,652.0	487.2	2,616.9
Freestone County	1995	--	6.5	119.1	345.2	1,556.3	434.8	2,461.9
Freestone County	1996	--	6.6	118.7	354.0	1,739.2	379.1	2,597.5
Freestone County	1997	--	6.4	123.0	351.0	1,587.2	361.8	2,429.5
Freestone County	1998	--	8.8	139.1	371.5	1,674.6	396.3	2,590.3
Freestone County	1999	--	8.2	153.3	406.2	1,652.1	390.8	2,610.6
Freestone County	2000	--	8.5	153.3	389.5	1,738.1	392.1	2,681.5
Freestone County	2001	--	9.1	150.8	399.8	1,804.1	422.7	2,786.4
Freestone County	2002	--	11.2	173.3	424.6	1,860.9	448.3	2,918.3
Freestone County	2003	--	8.5	150.0	412.6	1,823.8	424.4	2,819.3
Freestone County	2004	--	9.9	156.6	418.0	1,904.1	448.2	2,936.8
Freestone County	2005	--	11.3	147.3	415.3	1,852.1	469.9	2,895.9
Freestone County	2006	--	12.0	155.4	438.0	1,953.5	495.7	3,054.5
Freestone County	2007	--	11.3	146.9	414.2	1,847.3	468.7	2,888.5
Freestone County	2008	--	11.7	152.4	429.7	1,916.2	486.2	2,996.1
Freestone County	2009	--	11.1	144.8	408.4	1,821.3	462.1	2,847.8
Freestone County	2010	--	11.7	151.6	427.3	1,905.9	483.6	2,980.0
Freestone County	2011	--	12.3	159.2	448.9	2,001.9	507.9	3,130.2
Freestone County	2012	--	11.8	152.7	430.6	1,920.4	487.3	3,002.7
Freestone County	2013	--	11.3	147.5	415.7	1,854.1	470.4	2,899.1

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Gregg County	1980	--	315.0	1,463.7	925.8	555.0	--	3,259.4
Gregg County	1981	--	337.4	1,620.3	940.5	530.5	--	3,428.6
Gregg County	1982	--	353.9	1,715.2	950.4	515.6	--	3,535.1
Gregg County	1983	--	332.7	1,598.4	872.4	454.6	--	3,258.0
Gregg County	1984	--	313.9	1,505.1	915.9	502.0	--	3,236.9
Gregg County	1985	--	301.4	1,499.0	816.4	463.6	--	3,080.5
Gregg County	1986	--	276.6	1,339.7	706.3	428.6	--	2,751.2
Gregg County	1987	--	266.7	1,310.8	692.4	414.7	--	2,684.6
Gregg County	1988	--	295.4	1,443.6	692.8	415.8	--	2,847.7
Gregg County	1989	--	288.6	1,375.7	668.0	385.9	--	2,718.2
Gregg County	1990	--	292.3	1,402.8	664.7	376.1	--	2,735.9
Gregg County	1991	--	292.3	1,398.3	743.5	402.3	--	2,836.4
Gregg County	1992	--	299.5	1,398.3	730.7	396.2	--	2,824.7
Gregg County	1993	--	303.2	1,445.9	787.1	422.6	--	2,958.7
Gregg County	1994	--	302.4	1,480.5	782.6	421.2	--	2,986.7
Gregg County	1995	--	300.9	1,484.3	798.7	429.0	--	3,012.9
Gregg County	1996	--	303.3	1,487.8	816.6	436.6	--	3,044.4
Gregg County	1997	--	307.2	1,460.1	775.7	417.9	--	2,960.8
Gregg County	1998	--	308.0	1,484.5	546.7	259.6	--	2,598.8
Gregg County	1999	--	311.1	1,498.3	841.9	395.4	--	3,046.6
Gregg County	2000	--	219.4	1,491.6	789.9	427.3	--	2,928.2
Gregg County	2001	--	219.1	1,489.6	850.6	446.2	--	3,005.5
Gregg County	2002	--	218.7	1,487.2	963.3	473.7	--	3,142.9
Gregg County	2003	--	214.3	1,452.8	972.7	455.2	--	3,095.1
Gregg County	2004	--	220.0	1,506.4	391.2	163.5	--	2,281.2
Gregg County	2005	--	225.9	1,531.0	909.5	374.2	--	3,040.5
Gregg County	2006	--	251.2	1,702.1	1,012.4	416.5	--	3,382.1
Gregg County	2007	--	224.2	1,521.8	905.0	372.3	--	3,023.3
Gregg County	2008	--	240.6	1,633.4	970.9	399.8	--	3,244.6
Gregg County	2009	--	217.7	1,479.5	879.7	361.5	--	2,938.4
Gregg County	2010	--	238.2	1,618.0	963.5	396.6	--	3,216.3
Gregg County	2011	--	262.3	1,775.3	1,062.9	436.9	--	3,537.4
Gregg County	2012	--	241.1	1,630.4	975.2	401.6	--	3,248.4
Gregg County	2013	--	226.1	1,532.7	911.6	374.6	--	3,045.0

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Harrison County	1980	--	394.5	1,830.6	644.1	619.0	405.2	3,893.3
Harrison County	1981	--	421.4	2,042.8	707.3	723.4	428.0	4,322.8
Harrison County	1982	--	428.3	2,121.2	730.3	734.4	434.0	4,448.2
Harrison County	1983	--	440.3	2,188.1	754.3	802.4	448.0	4,633.0
Harrison County	1984	--	459.6	2,314.9	804.5	766.5	434.2	4,779.6
Harrison County	1985	--	442.3	2,379.0	823.2	813.4	444.0	4,902.0
Harrison County	1986	--	369.7	2,345.9	778.2	773.4	422.0	4,689.2
Harrison County	1987	--	449.6	2,424.7	835.2	779.3	422.0	4,910.7
Harrison County	1988	--	383.7	2,458.9	807.7	727.0	360.8	4,738.0
Harrison County	1989	--	381.0	2,422.6	791.7	652.7	314.4	4,562.2
Harrison County	1990	--	391.7	2,487.5	796.5	681.8	316.2	4,673.6
Harrison County	1991	--	387.9	2,443.8	790.2	678.2	308.8	4,608.9
Harrison County	1992	--	379.5	2,390.7	731.7	634.4	278.2	4,414.6
Harrison County	1993	--	394.5	2,525.2	845.8	670.9	290.4	4,726.8
Harrison County	1994	--	392.2	2,519.1	832.7	590.8	240.1	4,574.9
Harrison County	1995	--	397.2	2,496.8	797.2	560.6	233.8	4,485.6
Harrison County	1996	--	397.5	2,549.9	808.7	565.1	234.2	4,555.4
Harrison County	1997	--	399.5	2,480.2	840.5	558.8	262.9	4,542.0
Harrison County	1998	--	406.0	2,526.2	849.8	555.6	235.9	4,573.4
Harrison County	1999	--	408.1	2,548.1	783.8	521.0	210.7	4,471.6
Harrison County	2000	--	316.1	1,992.4	818.9	502.7	200.1	3,830.1
Harrison County	2001	--	324.8	1,939.3	748.9	491.8	190.3	3,695.2
Harrison County	2002	--	325.3	2,007.0	766.3	495.3	189.8	3,783.7
Harrison County	2003	--	330.7	2,019.9	829.8	470.7	239.3	3,890.5
Harrison County	2004	--	336.5	2,111.5	852.7	477.1	194.9	3,972.7
Harrison County	2005	--	341.4	2,143.6	721.4	422.0	155.7	3,784.1
Harrison County	2006	--	379.7	2,382.3	803.0	470.1	172.7	4,207.7
Harrison County	2007	--	339.5	2,129.6	717.7	420.0	154.6	3,761.4
Harrison County	2008	--	365.0	2,285.0	770.4	450.7	165.6	4,036.6
Harrison County	2009	--	330.7	2,069.3	698.5	408.8	150.3	3,657.5
Harrison County	2010	--	362.0	2,266.1	764.3	447.4	164.7	4,004.5
Harrison County	2011	--	399.2	2,498.9	842.9	493.5	181.6	4,416.1
Harrison County	2012	--	365.8	2,294.4	774.0	452.7	166.7	4,053.6
Harrison County	2013	--	341.8	2,148.1	723.1	423.4	155.9	3,792.3

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Hempstead County	1980	--	--	--	--	0.0	0.0	0.0
Hempstead County	1981	--	--	--	--	0.0	0.0	0.0
Hempstead County	1982	--	--	--	--	0.0	0.0	0.0
Hempstead County	1983	--	--	--	--	0.0	0.0	0.0
Hempstead County	1984	--	--	--	--	0.0	0.0	0.0
Hempstead County	1985	--	--	--	--	0.0	0.0	0.0
Hempstead County	1986	--	--	--	--	0.0	0.0	0.0
Hempstead County	1987	--	--	--	--	0.0	0.0	0.0
Hempstead County	1988	--	--	--	--	0.0	0.0	0.0
Hempstead County	1989	--	--	--	--	0.0	0.0	0.0
Hempstead County	1990	--	--	--	--	0.0	0.0	0.0
Hempstead County	1991	--	--	--	--	0.0	0.0	0.0
Hempstead County	1992	--	--	--	--	0.0	0.0	0.0
Hempstead County	1993	--	--	--	--	0.1	0.1	0.2
Hempstead County	1994	--	--	--	--	5.1	0.8	5.9
Hempstead County	1995	--	--	--	--	1.1	0.5	1.6
Hempstead County	1996	--	--	--	--	8.7	0.0	8.7
Hempstead County	1997	--	--	--	--	7.5	0.2	7.7
Hempstead County	1998	--	--	--	--	16.3	0.3	16.6
Hempstead County	1999	--	--	--	--	12.9	0.2	13.1
Hempstead County	2000	--	--	--	--	13.6	0.2	13.8
Hempstead County	2001	--	--	--	--	14.9	0.0	14.9
Hempstead County	2002	--	--	--	--	14.8	0.2	15.0
Hempstead County	2003	--	--	--	--	15.8	0.2	16.0
Hempstead County	2004	--	--	--	--	15.3	0.1	15.4
Hempstead County	2005	--	--	--	--	13.9	0.1	14.0
Hempstead County	2006	--	--	--	--	14.7	0.1	14.8
Hempstead County	2007	--	--	--	--	13.9	0.1	14.0
Hempstead County	2008	--	--	--	--	14.4	0.1	14.5
Hempstead County	2009	--	--	--	--	13.7	0.1	13.8
Hempstead County	2010	--	--	--	--	14.3	0.1	14.4
Hempstead County	2011	--	--	--	--	15.0	0.1	15.2
Hempstead County	2012	--	--	--	--	14.4	0.1	14.5
Hempstead County	2013	--	--	--	--	13.9	0.1	14.0

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Henderson County	1980	--	512.5	2,701.8	680.3	913.4	888.9	5,696.9
Henderson County	1981	--	499.1	2,472.8	648.3	642.3	624.3	4,886.9
Henderson County	1982	--	584.1	3,069.7	793.1	712.5	676.3	5,835.8
Henderson County	1983	--	616.2	3,223.9	836.3	731.5	738.4	6,146.3
Henderson County	1984	--	657.0	3,428.4	892.2	1,171.6	1,546.0	7,695.1
Henderson County	1985	--	658.2	3,552.8	1,027.7	1,331.7	1,674.9	8,245.2
Henderson County	1986	--	779.2	3,635.5	1,044.3	1,318.6	1,567.8	8,345.4
Henderson County	1987	--	612.5	3,581.4	1,007.0	1,307.2	1,263.2	7,771.2
Henderson County	1988	--	775.9	3,650.1	1,083.9	1,392.1	1,396.3	8,298.3
Henderson County	1989	--	822.2	3,954.0	1,125.4	1,144.4	1,189.5	8,235.6
Henderson County	1990	--	847.7	4,260.6	1,177.0	1,051.0	1,081.3	8,417.6
Henderson County	1991	--	851.3	4,332.1	1,175.9	933.8	983.0	8,276.1
Henderson County	1992	--	749.7	4,304.8	1,207.0	853.8	1,126.0	8,241.3
Henderson County	1993	--	752.5	4,571.8	1,213.9	967.4	1,258.0	8,763.6
Henderson County	1994	--	769.5	4,562.8	1,200.3	984.9	1,235.1	8,752.5
Henderson County	1995	--	777.8	4,782.5	1,246.7	997.5	1,363.7	9,168.3
Henderson County	1996	--	866.3	4,949.6	1,323.7	991.3	1,242.8	9,373.8
Henderson County	1997	--	794.7	4,935.2	1,315.6	989.1	1,188.3	9,222.9
Henderson County	1998	--	802.5	5,113.2	1,384.8	1,029.7	1,296.4	9,626.6
Henderson County	1999	--	784.1	5,112.2	1,419.4	1,056.3	1,251.2	9,623.2
Henderson County	2000	--	634.9	3,246.6	1,091.0	983.2	1,190.8	7,146.5
Henderson County	2001	--	645.5	3,491.3	1,180.0	1,005.3	1,454.0	7,776.1
Henderson County	2002	--	800.0	3,675.2	1,320.2	982.4	1,189.8	7,967.6
Henderson County	2003	--	672.6	3,827.7	1,319.2	978.9	1,097.2	7,895.6
Henderson County	2004	--	685.2	4,258.7	1,467.1	1,061.7	1,309.4	8,782.0
Henderson County	2005	--	651.8	3,942.7	1,557.3	1,122.8	1,213.5	8,488.2
Henderson County	2006	--	724.7	4,378.3	1,729.7	1,248.9	1,351.1	9,432.7
Henderson County	2007	--	648.1	3,914.9	1,546.3	1,116.6	1,207.4	8,433.3
Henderson County	2008	--	695.8	4,199.4	1,658.8	1,197.9	1,295.5	9,047.5
Henderson County	2009	--	630.8	3,802.7	1,501.3	1,085.9	1,173.9	8,194.6
Henderson County	2010	--	690.0	4,161.9	1,643.8	1,189.2	1,285.5	8,970.5
Henderson County	2011	--	761.7	4,485.1	1,812.1	1,311.8	1,418.9	9,789.6
Henderson County	2012	--	698.4	4,123.4	1,663.7	1,203.9	1,301.5	8,990.9
Henderson County	2013	--	653.6	3,942.3	1,557.9	1,125.2	1,216.9	8,495.8



Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Hopkins County	1980	--	--	7,498.7	138.8	1,183.3	1,319.4	10,140.2
Hopkins County	1981	--	--	12,811.5	149.4	1,047.1	1,094.1	15,102.1
Hopkins County	1982	--	--	31,783.2	154.4	1,094.1	1,135.9	34,167.7
Hopkins County	1983	--	--	20,876.0	162.5	1,152.7	1,201.2	23,392.3
Hopkins County	1984	--	--	3,862.8	175.0	1,243.1	1,411.5	6,692.4
Hopkins County	1985	--	--	7,945.7	175.5	1,281.6	1,388.8	10,791.6
Hopkins County	1986	--	--	162,151.5	178.5	1,170.5	1,260.0	164,760.5
Hopkins County	1987	--	--	180,855.6	182.6	1,090.8	1,264.1	183,393.2
Hopkins County	1988	--	--	5,548.2	185.1	1,000.3	1,037.6	7,771.1
Hopkins County	1989	--	--	3,048.7	176.4	897.4	1,102.4	5,224.9
Hopkins County	1990	--	--	7,667.5	182.3	1,149.7	1,829.6	10,829.2
Hopkins County	1991	--	--	14,936.8	183.3	1,211.2	1,868.3	18,199.6
Hopkins County	1992	--	--	3,144.8	180.7	1,266.1	2,112.2	6,703.6
Hopkins County	1993	--	--	38,924.8	189.8	1,299.4	2,066.3	42,480.3
Hopkins County	1994	--	--	199,156.4	193.4	1,373.7	2,236.2	202,959.7
Hopkins County	1995	--	--	9,492.7	192.3	1,298.0	2,051.3	13,034.3
Hopkins County	1996	--	--	97,863.0	192.7	1,327.3	2,093.3	101,476.3
Hopkins County	1997	--	--	3,325.2	192.0	1,293.3	1,993.2	6,803.7
Hopkins County	1998	--	--	3,543.0	194.1	1,408.5	2,348.8	7,494.5
Hopkins County	1999	--	--	1,455.6	198.5	1,355.9	2,352.1	5,362.0
Hopkins County	2000	--	--	288.8	196.6	887.5	1,894.5	3,267.4
Hopkins County	2001	--	--	127.8	193.9	785.7	1,631.9	2,739.4
Hopkins County	2002	--	--	90.7	194.3	754.2	1,546.8	2,586.0
Hopkins County	2003	--	--	210.2	194.4	700.7	1,447.0	2,552.3
Hopkins County	2004	--	--	154.9	198.6	893.8	1,868.6	3,115.9
Hopkins County	2005	--	--	160.9	206.4	794.2	1,922.4	3,083.9
Hopkins County	2006	--	--	44.1	229.8	875.9	2,088.8	3,238.6
Hopkins County	2007	--	--	12.8	204.8	781.6	1,869.2	2,868.4
Hopkins County	2008	--	--	6.7	220.0	836.0	1,991.4	3,054.1
Hopkins County	2009	--	--	6.3	199.8	752.8	1,782.5	2,741.5
Hopkins County	2010	--	--	6.6	218.8	822.8	1,939.4	2,987.6
Hopkins County	2011	--	--	7.0	241.2	904.5	2,075.5	3,228.1
Hopkins County	2012	--	--	6.7	221.6	831.3	1,937.1	2,996.6
Hopkins County	2013	--	--	41.9	206.6	785.5	1,896.2	2,930.2

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Houston County	1980	583.4	200.5	798.4	0.0	0.1	--	1,582.4
Houston County	1981	628.0	212.9	760.4	0.0	0.1	--	1,601.4
Houston County	1982	659.1	219.9	805.4	0.0	0.1	--	1,684.4
Houston County	1983	678.1	222.9	779.5	0.0	0.1	--	1,680.6
Houston County	1984	706.1	229.6	823.7	0.0	0.1	--	1,759.5
Houston County	1985	705.2	227.9	837.4	0.0	0.1	--	1,770.6
Houston County	1986	601.1	196.9	763.6	0.0	0.1	--	1,561.7
Houston County	1987	640.5	208.8	867.4	0.1	0.1	--	1,716.9
Houston County	1988	673.1	219.2	897.5	0.1	0.1	--	1,789.9
Houston County	1989	656.0	212.9	722.3	0.1	0.1	--	1,591.3
Houston County	1990	663.7	216.3	556.6	0.1	0.1	--	1,436.7
Houston County	1991	654.4	212.8	525.6	0.1	0.1	--	1,393.0
Houston County	1992	640.3	208.2	510.3	0.0	0.1	--	1,358.9
Houston County	1993	628.6	297.8	827.5	0.1	0.1	--	1,754.1
Houston County	1994	740.9	244.0	855.3	0.0	0.1	--	1,840.3
Houston County	1995	685.0	225.3	847.0	0.0	0.1	--	1,757.4
Houston County	1996	713.8	238.1	892.6	0.0	0.1	--	1,844.7
Houston County	1997	662.0	223.5	872.2	0.1	0.1	--	1,757.9
Houston County	1998	703.5	244.8	881.7	0.1	0.1	--	1,830.2
Houston County	1999	709.7	249.0	841.9	0.1	0.2	--	1,800.7
Houston County	2000	750.4	187.2	868.9	5.9	0.2	--	1,812.5
Houston County	2001	637.9	159.0	855.5	5.0	0.2	--	1,657.6
Houston County	2002	689.5	178.9	948.6	6.9	0.2	--	1,824.1
Houston County	2003	595.0	156.3	901.6	6.9	0.2	--	1,660.0
Houston County	2004	674.7	188.0	928.9	5.1	0.2	--	1,796.9
Houston County	2005	686.4	192.1	836.9	5.5	0.2	--	1,721.1
Houston County	2006	762.2	213.0	929.7	5.8	0.2	--	1,910.9
Houston County	2007	681.2	190.8	831.8	5.5	0.2	--	1,709.5
Houston County	2008	731.2	204.7	892.0	5.7	0.2	--	1,833.9
Houston County	2009	662.8	185.7	809.1	5.4	0.2	--	1,663.2
Houston County	2010	725.0	202.8	885.2	5.7	0.2	--	1,818.8
Houston County	2011	799.4	223.6	975.7	6.0	0.2	--	2,004.9
Houston County	2012	734.0	206.0	896.1	5.7	0.2	--	1,842.0
Houston County	2013	688.3	192.3	837.9	5.5	0.2	--	1,724.2

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Leon County	1980	66.3	634.1	929.3	348.4	492.4	0.0	2,470.6
Leon County	1981	66.1	632.3	926.7	347.5	491.1	0.0	2,463.8
Leon County	1982	66.1	632.3	926.7	347.5	491.1	0.0	2,463.8
Leon County	1983	66.1	632.3	926.7	347.5	491.0	0.0	2,463.8
Leon County	1984	66.3	634.1	929.3	348.4	492.4	0.0	2,470.5
Leon County	1985	66.1	632.3	926.7	347.5	491.0	0.0	2,463.7
Leon County	1986	66.1	632.3	926.7	347.5	491.0	0.0	2,463.8
Leon County	1987	78.8	695.7	933.9	311.7	481.4	0.0	2,501.5
Leon County	1988	90.8	765.7	950.5	396.3	556.0	0.1	2,759.3
Leon County	1989	102.1	788.8	912.2	444.4	586.1	0.1	2,833.7
Leon County	1990	114.2	921.3	1,353.8	475.8	876.2	0.1	3,741.3
Leon County	1991	116.0	1,004.1	1,367.8	522.7	623.1	0.1	3,633.7
Leon County	1992	101.7	937.2	1,277.9	476.9	633.0	0.1	3,426.7
Leon County	1993	113.4	1,005.1	1,374.7	480.8	656.1	0.1	3,630.1
Leon County	1994	116.5	1,071.9	1,460.5	468.7	723.5	0.1	3,841.1
Leon County	1995	104.6	839.6	1,421.8	465.0	726.7	0.1	3,557.7
Leon County	1996	104.0	845.1	1,445.4	476.6	763.5	0.1	3,634.6
Leon County	1997	105.0	859.7	1,372.5	487.1	727.1	0.1	3,551.4
Leon County	1998	101.6	826.8	1,336.6	480.5	737.3	0.1	3,483.0
Leon County	1999	100.2	817.3	1,336.3	488.3	832.4	0.1	3,574.7
Leon County	2000	90.9	769.9	1,244.7	473.2	874.7	0.1	3,453.5
Leon County	2001	101.9	859.8	1,322.4	496.6	843.7	0.1	3,624.5
Leon County	2002	95.8	772.5	1,265.9	522.4	870.5	0.1	3,527.1
Leon County	2003	103.0	879.3	1,389.3	527.0	1,100.8	0.1	3,999.5
Leon County	2004	91.3	785.8	1,404.9	557.9	1,109.3	0.1	3,949.3
Leon County	2005	90.4	745.4	1,399.9	522.3	1,126.1	0.1	3,884.3
Leon County	2006	95.4	786.2	1,476.6	551.0	1,187.8	0.1	4,097.0
Leon County	2007	90.2	743.4	1,396.3	521.0	1,123.2	0.1	3,874.3
Leon County	2008	93.5	771.2	1,448.4	540.4	1,165.1	0.1	4,018.7
Leon County	2009	88.9	733.0	1,376.7	513.7	1,107.4	0.1	3,819.8
Leon County	2010	93.0	767.0	1,440.6	537.5	1,158.8	0.1	3,997.2
Leon County	2011	97.7	805.7	1,513.2	564.6	1,217.3	0.1	4,198.6
Leon County	2012	93.8	772.9	1,451.6	541.6	1,167.7	0.1	4,027.6
Leon County	2013	90.5	746.2	1,401.5	522.9	1,127.4	0.1	3,888.6

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Limestone County	1980	--	--	--	29.0	288.4	275.2	592.6
Limestone County	1981	--	--	--	29.0	287.6	274.4	591.0
Limestone County	1982	--	--	--	29.0	287.6	274.4	591.0
Limestone County	1983	--	--	--	29.0	287.6	274.4	591.0
Limestone County	1984	--	--	--	29.0	288.4	275.2	592.6
Limestone County	1985	--	--	--	29.0	287.6	274.4	591.0
Limestone County	1986	--	--	--	29.0	287.6	274.4	591.0
Limestone County	1987	--	--	--	30.9	277.9	297.0	605.8
Limestone County	1988	--	--	--	31.5	346.3	304.9	682.7
Limestone County	1989	--	--	--	31.6	385.6	307.3	724.5
Limestone County	1990	--	--	--	34.3	520.0	319.6	873.9
Limestone County	1991	--	--	--	34.2	1,104.4	320.7	1,459.3
Limestone County	1992	--	--	--	35.3	1,302.6	334.4	1,672.4
Limestone County	1993	--	--	--	34.8	1,158.7	328.1	1,521.7
Limestone County	1994	--	--	--	35.9	1,172.3	337.4	1,545.5
Limestone County	1995	--	--	--	34.8	1,580.6	330.2	1,945.6
Limestone County	1996	--	--	--	35.5	1,635.7	337.1	2,008.3
Limestone County	1997	--	--	--	35.7	1,481.0	370.3	1,887.1
Limestone County	1998	--	--	--	35.2	1,302.5	367.1	1,704.8
Limestone County	1999	--	--	--	36.8	1,284.1	382.9	1,703.8
Limestone County	2000	--	--	--	36.3	1,302.2	376.4	1,714.9
Limestone County	2001	--	--	--	36.7	1,165.1	380.8	1,582.6
Limestone County	2002	--	--	--	36.9	1,338.6	382.7	1,758.2
Limestone County	2003	--	--	--	36.3	1,312.6	377.2	1,726.1
Limestone County	2004	--	--	--	36.7	1,261.1	380.9	1,678.6
Limestone County	2005	--	--	--	37.1	1,261.7	385.2	1,684.0
Limestone County	2006	--	--	--	39.1	1,330.9	406.3	1,776.3
Limestone County	2007	--	--	--	37.0	1,258.5	384.2	1,679.7
Limestone County	2008	--	--	--	38.4	1,305.4	398.5	1,742.3
Limestone County	2009	--	--	--	36.5	1,240.8	378.8	1,656.1
Limestone County	2010	--	--	--	38.2	1,298.4	396.4	1,733.0
Limestone County	2011	--	--	--	40.1	1,363.8	416.4	1,820.3
Limestone County	2012	--	--	--	38.5	1,308.3	399.4	1,746.2
Limestone County	2013	--	--	--	37.1	1,263.2	385.6	1,685.9

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Red River County	1980	--	--	--	--	--	0.1	0.1
Red River County	1981	--	--	--	--	--	0.1	0.1
Red River County	1982	--	--	--	--	--	0.1	0.1
Red River County	1983	--	--	--	--	--	0.1	0.1
Red River County	1984	--	--	--	--	--	0.1	0.1
Red River County	1985	--	--	--	--	--	0.1	0.1
Red River County	1986	--	--	--	--	--	0.1	0.1
Red River County	1987	--	--	--	--	--	0.1	0.1
Red River County	1988	--	--	--	--	--	0.1	0.1
Red River County	1989	--	--	--	--	--	0.1	0.1
Red River County	1990	--	--	--	--	--	0.1	0.1
Red River County	1991	--	--	--	--	--	0.1	0.1
Red River County	1992	--	--	--	--	--	0.1	0.1
Red River County	1993	--	--	--	--	--	0.1	0.1
Red River County	1994	--	--	--	--	--	0.1	0.1
Red River County	1995	--	--	--	--	--	0.1	0.1
Red River County	1996	--	--	--	--	--	0.1	0.1
Red River County	1997	--	--	--	--	--	0.1	0.1
Red River County	1998	--	--	--	--	--	0.2	0.2
Red River County	1999	--	--	--	--	--	0.1	0.1
Red River County	2000	--	--	--	--	--	0.1	0.1
Red River County	2001	--	--	--	--	--	0.1	0.1
Red River County	2002	--	--	--	--	--	0.1	0.1
Red River County	2003	--	--	--	--	--	0.1	0.1
Red River County	2004	--	--	--	--	--	0.1	0.1
Red River County	2005	--	--	--	--	--	0.1	0.1
Red River County	2006	--	--	--	--	--	0.1	0.1
Red River County	2007	--	--	--	--	--	0.1	0.1
Red River County	2008	--	--	--	--	--	0.1	0.1
Red River County	2009	--	--	--	--	--	0.1	0.1
Red River County	2010	--	--	--	--	--	0.1	0.1
Red River County	2011	--	--	--	--	--	0.1	0.1
Red River County	2012	--	--	--	--	--	0.1	0.1
Red River County	2013	--	--	--	--	--	0.1	0.1

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						
		2	4	6	7	8	9	Total
Red River Parish	1980	--	--	--	0.0	21.8	0.4	22.2
Red River Parish	1981	--	--	--	0.0	21.8	0.4	22.1
Red River Parish	1982	--	--	--	0.0	21.8	0.4	22.1
Red River Parish	1983	--	--	--	0.0	21.8	0.4	22.1
Red River Parish	1984	--	--	--	0.0	21.8	0.4	22.2
Red River Parish	1985	--	--	--	0.0	21.8	0.4	22.1
Red River Parish	1986	--	--	--	0.0	21.8	0.4	22.1
Red River Parish	1987	--	--	--	0.0	22.8	0.4	23.3
Red River Parish	1988	--	--	--	0.0	19.2	0.2	19.4
Red River Parish	1989	--	--	--	0.0	21.0	0.3	21.3
Red River Parish	1990	--	--	--	0.0	20.1	0.2	20.4
Red River Parish	1991	--	--	--	0.0	1.6	0.0	1.6
Red River Parish	1992	--	--	--	0.0	27.2	0.2	27.4
Red River Parish	1993	--	--	--	0.0	40.7	0.5	41.3
Red River Parish	1994	--	--	--	0.0	57.9	1.1	59.1
Red River Parish	1995	--	--	--	0.0	104.7	1.3	106.1
Red River Parish	1996	--	--	--	0.2	72.7	1.1	73.9
Red River Parish	1997	--	--	--	0.2	84.0	1.3	85.5
Red River Parish	1998	--	--	--	0.2	98.9	1.7	100.8
Red River Parish	1999	--	--	--	0.2	111.5	2.0	113.6
Red River Parish	2000	--	--	--	0.3	80.8	1.1	82.1
Red River Parish	2001	--	--	--	0.2	134.3	2.3	136.8
Red River Parish	2002	--	--	--	0.2	146.6	2.6	149.4
Red River Parish	2003	--	--	--	0.2	155.1	2.6	157.9
Red River Parish	2004	--	--	--	0.2	169.4	2.9	172.6
Red River Parish	2005	--	--	--	0.2	212.5	3.8	216.5
Red River Parish	2006	--	--	--	0.2	224.2	4.0	228.4
Red River Parish	2007	--	--	--	0.2	212.0	3.8	216.0
Red River Parish	2008	--	--	--	0.2	219.9	3.9	224.0
Red River Parish	2009	--	--	--	0.2	209.0	3.7	212.9
Red River Parish	2010	--	--	--	0.2	218.7	3.9	222.8
Red River Parish	2011	--	--	--	0.3	229.7	4.1	234.0
Red River Parish	2012	--	--	--	0.2	220.4	3.9	224.5
Red River Parish	2013	--	--	--	0.2	212.8	3.8	216.8

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Sabine Parish	1980	223.1	0.0	4.0	545.1	201.2	--	973.4
Sabine Parish	1981	222.5	0.0	4.0	543.6	200.6	--	970.8
Sabine Parish	1982	222.5	0.0	4.0	543.6	200.6	--	970.8
Sabine Parish	1983	222.5	0.0	4.0	543.6	200.6	--	970.8
Sabine Parish	1984	223.1	0.0	4.0	545.1	201.2	--	973.4
Sabine Parish	1985	222.5	0.0	4.0	543.6	200.6	--	970.8
Sabine Parish	1986	222.5	0.0	4.0	543.6	200.6	--	970.8
Sabine Parish	1987	260.4	0.0	3.5	614.4	226.9	--	1,105.2
Sabine Parish	1988	299.0	0.0	2.9	296.2	200.3	--	798.4
Sabine Parish	1989	336.1	0.0	4.0	473.5	316.0	--	1,129.6
Sabine Parish	1990	374.0	0.0	3.6	395.9	346.9	--	1,120.5
Sabine Parish	1991	412.0	0.0	1.4	46.4	285.8	--	745.7
Sabine Parish	1992	415.4	0.0	1.1	117.3	345.2	--	879.1
Sabine Parish	1993	420.8	0.0	2.3	238.4	452.5	--	1,114.0
Sabine Parish	1994	422.7	0.0	3.7	732.7	691.2	--	1,850.3
Sabine Parish	1995	424.3	0.0	6.9	725.2	774.8	--	1,931.3
Sabine Parish	1996	418.6	0.0	0.0	1.0	570.1	--	989.7
Sabine Parish	1997	410.7	0.0	0.0	1.0	625.3	--	1,036.9
Sabine Parish	1998	403.9	0.0	4.5	411.9	850.1	--	1,670.5
Sabine Parish	1999	397.1	0.0	4.7	500.6	851.0	--	1,753.4
Sabine Parish	2000	392.1	0.0	6.1	619.3	1,021.5	--	2,039.0
Sabine Parish	2001	379.5	0.0	4.4	465.7	935.6	--	1,785.2
Sabine Parish	2002	368.5	0.0	4.9	538.5	1,006.9	--	1,918.8
Sabine Parish	2003	357.2	0.0	0.0	115.9	814.1	--	1,287.2
Sabine Parish	2004	347.2	0.0	3.4	413.2	988.2	--	1,752.0
Sabine Parish	2005	335.0	0.0	5.0	615.7	1,068.9	--	2,024.6
Sabine Parish	2006	353.3	0.0	5.3	649.4	1,127.4	--	2,135.5
Sabine Parish	2007	334.1	0.0	5.0	614.1	1,066.2	--	2,019.4
Sabine Parish	2008	346.6	0.0	5.2	637.0	1,105.9	--	2,094.7
Sabine Parish	2009	329.4	0.0	4.9	605.5	1,051.2	--	1,991.0
Sabine Parish	2010	344.7	0.0	5.2	633.6	1,099.9	--	2,083.4
Sabine Parish	2011	362.1	0.0	5.4	665.5	1,155.4	--	2,188.4
Sabine Parish	2012	347.3	0.0	5.2	638.4	1,108.3	--	2,099.3
Sabine Parish	2013	335.3	0.0	5.0	616.4	1,070.1	--	2,026.8

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Shelby County	1980	--	--	9,202.9	684.5	1,079.1	16.4	10,982.9
Shelby County	1981	--	--	16,372.0	604.3	985.2	20.4	17,982.0
Shelby County	1982	--	--	34,713.6	622.6	1,017.2	21.4	36,374.9
Shelby County	1983	--	--	20,797.8	639.6	1,064.2	20.4	22,521.9
Shelby County	1984	--	--	5,893.3	660.6	1,624.2	25.6	8,203.6
Shelby County	1985	--	--	10,769.1	653.5	1,010.2	15.3	12,448.1
Shelby County	1986	--	--	631.6	667.7	969.3	15.3	2,283.9
Shelby County	1987	--	--	679.0	688.7	1,000.6	15.1	2,383.4
Shelby County	1988	--	--	5,334.7	721.0	1,036.8	19.7	7,112.1
Shelby County	1989	--	--	4,891.9	684.5	1,014.3	22.2	6,612.9
Shelby County	1990	--	--	6,423.3	770.8	1,063.5	23.6	8,281.3
Shelby County	1991	--	--	7,559.5	791.5	1,070.6	18.4	9,440.0
Shelby County	1992	--	--	4,490.1	766.6	1,294.9	56.3	6,607.8
Shelby County	1993	--	--	12,527.8	779.6	1,103.6	27.6	14,438.5
Shelby County	1994	--	--	733.7	927.3	1,266.4	29.3	2,956.7
Shelby County	1995	--	--	5,104.2	897.0	1,265.8	25.6	7,292.6
Shelby County	1996	--	--	694.9	931.7	1,306.1	27.7	2,960.4
Shelby County	1997	--	--	6,498.7	926.3	1,330.9	21.4	8,777.4
Shelby County	1998	--	--	6,503.5	908.0	1,286.6	22.9	8,721.0
Shelby County	1999	--	--	4,638.4	907.6	1,323.0	27.1	6,896.1
Shelby County	2000	--	--	693.2	817.2	1,451.7	30.8	2,992.9
Shelby County	2001	--	--	457.8	808.4	1,445.5	25.0	2,736.7
Shelby County	2002	--	--	500.0	800.0	1,400.0	20.0	2,700.0
Shelby County	2003	--	--	572.3	842.8	1,598.2	18.1	3,031.4
Shelby County	2004	--	--	503.2	792.7	1,496.1	19.8	2,811.9
Shelby County	2005	--	--	539.9	822.9	1,579.1	27.3	2,969.2
Shelby County	2006	--	--	266.9	910.5	1,756.3	31.0	2,964.8
Shelby County	2007	--	--	138.8	814.9	1,571.4	27.3	2,552.4
Shelby County	2008	--	--	91.6	873.5	1,685.7	29.3	2,680.1
Shelby County	2009	--	--	647.1	788.2	1,527.0	26.9	2,989.2
Shelby County	2010	--	--	677.2	862.7	1,671.7	29.2	3,240.7
Shelby County	2011	--	--	711.3	946.0	1,845.1	32.8	3,535.2
Shelby County	2012	--	--	682.3	874.2	1,693.1	29.4	3,279.0
Shelby County	2013	--	--	316.7	825.0	1,583.2	27.4	2,752.3

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Titus County	1980	--	--	682.6	262.2	803.7	27.8	1,776.4
Titus County	1981	--	--	749.6	283.4	855.0	30.7	1,918.7
Titus County	1982	--	--	779.9	287.5	854.0	28.8	1,950.2
Titus County	1983	--	--	795.7	303.3	916.4	34.7	2,050.1
Titus County	1984	--	--	783.6	313.1	889.4	34.8	2,020.9
Titus County	1985	--	--	799.9	299.3	1,041.6	29.8	2,170.5
Titus County	1986	--	--	861.4	300.8	908.8	29.8	2,100.7
Titus County	1987	--	--	872.5	306.5	917.3	29.8	2,126.1
Titus County	1988	--	--	795.5	307.9	883.2	36.4	2,023.0
Titus County	1989	--	--	784.5	311.0	1,064.5	32.1	2,192.2
Titus County	1990	--	--	835.1	318.2	1,027.4	33.4	2,214.0
Titus County	1991	--	--	838.4	317.0	932.5	37.1	2,125.1
Titus County	1992	--	--	784.4	296.1	856.4	26.2	1,963.1
Titus County	1993	--	--	861.2	306.7	878.4	25.1	2,071.5
Titus County	1994	--	--	948.2	327.9	1,132.3	30.4	2,438.9
Titus County	1995	--	--	855.1	320.6	1,101.9	31.7	2,309.3
Titus County	1996	--	--	934.1	330.3	1,132.0	31.4	2,427.7
Titus County	1997	--	--	1,030.3	324.2	1,027.8	28.8	2,411.0
Titus County	1998	--	--	946.2	327.7	1,010.3	30.2	2,314.4
Titus County	1999	--	--	904.7	331.0	1,043.4	33.0	2,312.1
Titus County	2000	--	--	500.1	339.3	1,282.9	10.4	2,132.7
Titus County	2001	--	--	473.6	330.0	1,228.2	10.1	2,041.9
Titus County	2002	--	--	480.2	341.1	1,265.9	10.6	2,097.7
Titus County	2003	--	--	496.4	334.2	1,038.3	8.4	1,877.3
Titus County	2004	--	--	505.9	352.1	987.6	10.5	1,856.1
Titus County	2005	--	--	518.4	359.5	1,056.4	10.6	1,944.8
Titus County	2006	--	--	556.1	399.9	1,172.0	12.4	2,140.4
Titus County	2007	--	--	492.3	356.4	1,048.8	10.6	1,908.1
Titus County	2008	--	--	521.6	382.1	1,124.4	12.2	2,040.3
Titus County	2009	--	--	445.4	344.9	1,017.3	10.4	1,818.1
Titus County	2010	--	--	486.1	377.8	1,113.4	12.1	1,989.4
Titus County	2011	--	--	529.7	415.7	1,223.5	12.7	2,181.5
Titus County	2012	--	--	489.8	381.8	1,128.2	12.2	2,012.0
Titus County	2013	--	--	511.8	359.9	1,058.8	10.6	1,941.1

Appendix A Table 1 Total Pumping By County, Layer, and Year (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

County	Year	Pumping Totals in Acre-feet per Year						Total
		2	4	6	7	8	9	
Upshur County	1980	--	731.7	2,180.8	922.1	264.7	--	4,099.3
Upshur County	1981	--	793.7	2,349.8	991.6	295.9	--	4,431.0
Upshur County	1982	--	839.7	2,395.8	1,010.5	308.9	--	4,554.9
Upshur County	1983	--	804.7	2,355.9	1,008.5	309.9	--	4,479.0
Upshur County	1984	--	823.9	2,398.6	1,092.5	337.8	--	4,652.9
Upshur County	1985	--	762.7	2,318.1	1,085.5	333.9	--	4,500.2
Upshur County	1986	--	773.8	2,351.0	1,106.4	331.9	--	4,563.1
Upshur County	1987	--	823.3	2,377.7	1,210.7	328.5	--	4,740.3
Upshur County	1988	--	803.8	2,431.8	1,248.2	316.4	--	4,800.2
Upshur County	1989	--	804.7	2,336.8	1,105.2	329.9	--	4,576.6
Upshur County	1990	--	886.6	2,360.8	1,081.6	340.5	--	4,669.6
Upshur County	1991	--	881.8	2,369.0	1,081.1	338.7	--	4,670.7
Upshur County	1992	--	1,069.4	2,417.0	1,198.5	344.6	--	5,029.6
Upshur County	1993	--	1,127.8	2,544.5	1,361.3	403.3	--	5,436.9
Upshur County	1994	--	1,083.4	2,646.3	1,448.0	370.1	--	5,547.9
Upshur County	1995	--	1,026.8	2,516.9	1,339.9	361.5	--	5,245.1
Upshur County	1996	--	1,253.2	2,587.7	1,390.0	378.8	--	5,609.6
Upshur County	1997	--	991.0	2,598.0	1,401.3	376.0	--	5,366.4
Upshur County	1998	--	1,248.1	2,718.3	1,542.5	398.5	--	5,907.4
Upshur County	1999	--	1,284.7	2,673.3	1,484.4	393.2	--	5,835.5
Upshur County	2000	--	937.0	2,810.3	1,558.4	344.5	--	5,650.3
Upshur County	2001	--	833.5	2,540.8	1,333.0	328.8	--	5,036.1
Upshur County	2002	--	1,254.9	2,667.2	1,423.4	357.1	--	5,702.6
Upshur County	2003	--	796.2	2,699.8	1,458.1	355.0	--	5,309.1
Upshur County	2004	--	1,181.5	2,959.1	1,763.0	396.4	--	6,299.9
Upshur County	2005	--	1,239.3	2,857.7	1,631.7	387.2	--	6,115.8
Upshur County	2006	--	1,378.6	3,179.3	1,815.3	431.0	--	6,804.2
Upshur County	2007	--	1,232.8	2,843.0	1,623.2	385.2	--	6,084.2
Upshur County	2008	--	1,322.9	3,050.0	1,741.1	412.7	--	6,526.7
Upshur County	2009	--	1,198.3	2,763.7	1,577.8	374.0	--	5,913.9
Upshur County	2010	--	1,312.4	3,026.1	1,727.3	409.4	--	6,475.3
Upshur County	2011	--	1,448.3	3,338.7	1,906.2	452.2	--	7,145.4
Upshur County	2012	--	1,328.1	3,064.4	1,749.5	414.6	--	6,556.6
Upshur County	2013	--	1,241.8	2,864.0	1,634.6	387.6	--	6,128.0

**Appendix A Table A-1 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 District 5 (Grimes and Walker Counties)**

Mass Balance Components		Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)
		(acre-feet per year)								
Inflows	GHB	District is not present in layer 1	3,008.5	--	--	--	55.8	--	--	--
	Storage		--	--	--	--	--	--	--	8.8
	Grimes County		231.0	2.9	148.2	0.4	66.52	488.0	22.0	23.2
	Houston County		135.4	0.4	68.7	0.3	152.5	446.6	42.9	21.5
	Madison County		40.8	2.5	211.7	0.9	288.7	1,358.1	63.4	64.3
	Montgomery County		82.8	1.0	42.3	0.1	137.6	972.2	29.7	14.6
	San Jacinto County		73.5	0.6	2.1	5.48E-03	12.5	95.5	--	--
	Trinity County		57.8	0.2	18.6	1.35E-02	14.1	73.9	15.4	12.5
	Walker County		76.4	0.1	--	--	--	--	--	--
	Area Outside Texas Counties		163.0	1,097.92	925.97	618.22	643.72	704.75	477.42	230.4
Total Inflows		--	3,869.2	1,105.6	1,417.6	619.9	1,371.5	4,139.0	650.8	375.4
Outflows	GHB	District is not present in layer 1	1,238.4	--	12.5	--	--	4.0	4.7	6.2
	Storage		2.0	2.1	4.7	2.6	5.7	59.6	8.1	0.6
	Grimes County		76.4	0.1	--	--	--	--	--	--
	Houston County		31.6	0.1	8.9	--	--	--	--	--
	Madison County		742.9	2.4	108.4	0.2	42.3	280.5	8.6	8.3
	Montgomery County		274.1	9.9	224.6	0.9	66.9	333.4	198.3	214.1
	San Jacinto County		193.7	8.0	100.6	0.6	198.3	1,432.1	106.1	93.3
	Trinity County		114.2	0.7	50.7	0.3	286.3	1,034.5	72.6	29.8
	Walker County		231.0	2.9	148.2	0.4	66.5	488.0	22.0	23.2
	Area Outside Texas Counties		964.9	1,079.6	759.1	614.8	705.4	507.0	230.4	--
Total Outflows		--	3,869.2	1,105.6	1,417.6	619.9	1,371.5	4,139.0	650.8	375.4
Net Flows	In-Out	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-2 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 District 7 (Brazos and Robertson Counties)**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	District is not present in layer 2	--	--	--	--	--	--	--
	Recharge	1,911.6		--	47.0	147.6	191.4	339.3	--	--
	River	835.4		--	--	--	--	--	--	--
	Storage	--		--	--	--	--	--	--	--
	Well	--		--	--	--	--	--	--	--
	Leon County	430.9		0.0048	171.9	0.1	23.17	212.8	2.9	--
	Limestone County	30.3		--	--	--	--	412.6	18.5	9.3
	Area Outside Texas Counties	3,967.6		0.1	470.6	1.4	518.8	3,560.7	90.5	19.3
Total Inflows	7,175.8	--	0.1	689.5	149.2	733.3	4,525.4	111.9	28.6	
Outflows	ET	1,905.2	District is not present in layer 2	--	--	128.3	--	--	--	--
	Recharge	--		--	--	--	--	--	--	--
	River	542.0		--	--	--	--	--	--	--
	Storage	0.7		1.49E-05	0.013	0.029	0.7	1.3	0.6	1.2
	Well	--		--	2.3	--	12.7	20.1	10.0	2.5
	Leon County	666.7		0.027	117.1	4.4	156.2	1,171.0	78.7	22.0
	Limestone County	--		--	--	--	--	3.5	1.1	2.8
	Area Outside Texas Counties	4,061.2		0.1	570.1	16.5	563.7	3,329.6	21.5	--
Total Outflows	7,175.8	--	0.1	689.5	149.2	733.3	4,525.4	111.9	28.6	
Net Flows	In-Out	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-3 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 District 47 (Montgomery County)**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	GHB	--	345.3	--	--	--	1,381.9	--	--	--
	Storage	--	--	--	--	--	--	--	--	1.5
	Grimes County	--	108.0	2.6	94.5	0.4	56.0	263.5	61.1	54.0
	San Jacinto County	--	9.0	0.1987	2.6	0.0019	0.55	4.6	--	--
	Walker County	--	166.1	7.3	130.1	0.5	11.0	69.9	137.2	160.0
	Area Outside Texas Counties	4.67E-04	0.9	321.6	371.6	111.0	84.3	1,345.5	270.6	183.5
	Total Inflows	4.67E-04	629.3	331.7	598.8	111.9	1,533.7	1,683.6	468.8	399.1
Outflows	GHB	--	237.5	--	470.3	--	--	204.6	244.2	379.5
	Storage	5.16E-06	0.4	0.299	0.860	0.304	0.8	8.8	1.0	--
	Grimes County	--	2.0	0.015	--	--	15.0	82.2	--	--
	San Jacinto County	--	2.5	--	5.8	0.1	18.3	217.4	10.8	4.9
	Walker County	--	80.8	1.0	42.3	0.1	122.7	890.0	29.7	14.6
	Area Outside Texas Counties	4.55E-04	306.1	330.4	79.6	111.4	1,377.0	280.6	183.0	--
Total Outflows	4.60E-04	629.3	331.7	598.8	111.9	1,533.7	1,683.6	468.8	399.1	
Net Flows	In-Out	6.96E-06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	1.50%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-7 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 District 64 (Panola County)**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	District is not present in layer 2	District is not present in layer 3	District is not present in layer 4	--	--	--	--	
	Recharge	18,929.0				24.6	259.7	4,712.7	4,951.9	--
	River	256.0				--	--	--	--	--
	Storage	--				--	--	--	--	--
	Well	--				--	--	--	--	--
	Harrison County	351.8				--	--	57.8	272.1	88.7
	Rusk County	214.0				--	--	658.2	201.9	26.3
	Shelby County	52.1				--	--	262.1	285.4	28.5
	Area Outside Texas Counties	9,844.4				--	--	7,289.7	2,184.4	845.9
Total Inflows	29,647.2	--	--	--	24.6	259.7	12,980.5	7,895.7	989.4	
Outflows	ET	16,111.1	District is not present in layer 2	District is not present in layer 3	District is not present in layer 4	21.2	--	2,584.2	2,670.1	--
	Recharge	--				--	--	--	--	
	River	5,962.3				--	--	--	--	
	Storage	12.1				1.13E-03	1.6	167.1	485.1	10.8
	Well	--				--	--	274.1	1,909.1	619.5
	Harrison County	415.8				--	--	35.0	44.1	3.1
	Rusk County	124.9				--	--	221.4	38.9	7.7
	Shelby County	5.8				--	--	39.3	212.4	12.7
	Area Outside Texas Counties	7,015.3				3.1	259.3	9,658.0	2,536.1	335.5
Total Outflows	29,647.2	--	--	--	24.3	260.8	12,979.1	7,895.7	989.4	
Net Flows	In-Out	0.0	--	--	--	0.3	-1.1	1.5	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	1.23%	-0.43%	0.01%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).



**Appendix A Table A-9 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 District 79 (Rusk County)**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	--	--	--	--	--
	Recharge	14,186.6	255.9	168.4	1,545.9	3,475.4	5,242.2	5,702.6	--	--
	River	611.9	--	--	--	--	--	--	--	--
	Storage	--	--	--	--	--	--	--	--	--
	Well	--	--	--	--	--	--	--	--	--
	Cherokee County	202.4	--	--	62.4	2.0	55.9	337.5	35.2	4.5
	Gregg County	30.3	--	--	--	2.9	0.7	59.3	48.6	9.7
	Harrison County	66.7	--	--	--	--	--	14.2	2.1	1.3
	Nacogdoches County	0.7	--	--	--	0.6	--	50.1	35.0	--
	Panola County	124.9	--	--	--	--	--	221.4	38.9	7.7
	Shelby County	87.9	--	--	--	--	--	72.6	87.1	5.3
	Smith County	192.5	--	--	0.2	4.6	--	8.1	73.4	--
Area Outside Texas Counties	31,495.4	--	--	617.6	145.6	18,788.0	45,030.4	4,580.7	362.8	
Total Inflows	46,999.1	255.9	168.4	2,226.1	3,631.1	24,086.9	51,496.2	4,901.0	391.2	
Outflows	ET	2,779.5	--	--	268.5	1,868.9	--	376.5	--	--
	Recharge	--	--	--	--	--	--	--	--	--
	River	7,246.4	--	--	--	--	--	--	--	--
	Storage	182.6	0.1	--	54.6	37.7	562.6	1,303.6	49.3	36.8
	Well	--	--	--	19.2	--	1,343.9	1,599.6	3,167.7	0.2
	Cherokee County	386.2	--	--	--	1.1	259.8	1,185.7	238.2	37.9
	Gregg County	93.1	--	--	--	0.9	311.4	1,179.7	83.8	24.6
	Harrison County	183.2	--	--	--	--	--	22.1	3.3	1.3
	Nacogdoches County	15.2	--	--	--	2.6	26.3	3,591.7	575.9	70.8
	Panola County	214.0	--	--	--	--	--	658.2	201.9	26.3
	Shelby County	104.2	--	--	--	--	--	214.3	31.0	1.6
	Smith County	84.6	--	--	--	3.5	332.0	951.2	174.1	21.6
Area Outside Texas Counties	35,762.4	255.7	168.6	1,811.7	1,660.6	21,373.4	40,365.4	375.6	170.2	
Total Outflows	47,051.2	255.9	168.6	2,154.0	3,575.3	24,209.5	51,448.1	4,901.0	391.2	
Net Flows	In-Out	-52.1	0.0	-0.2	72.1	55.9	-122.6	48.1	0.0	0.0
	Percent Discrepancy	-0.11%	0.00%	-0.12%	3.29%	1.55%	-0.51%	0.09%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-10 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 District 85 (Jasper, Newton and Tyler Counties)**

Mass Balance Components		Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)
(acre-feet per year)										
Inflows	GHB	District is not present in layer 1	2,913.9	--	--	--	3,458.0	--	--	--
	Storage		--	--	--	--	--	--	6.9	
	Angelina County		115.5	0.8	1.1	0.03	25.9	164.4	33.3	21.3
	Jasper County		60.9	4.3	26.8	0.9	153.5	1,456.6	154.0	105.0
	Newton County		30.9	4.5	27.8	1.2	156.0	1,064.4	41.5	14.5
	Polk County		212.9	11.3	61.0	1.1	70.5	489.8	33.2	25.0
	Sabine County		11.4	0.7	5.4	0.1	36.3	114.0	97.0	60.4
	San Augustine County		4.4	0.5	4.3	0.1	14.6	84.9	23.4	9.4
	Tyler County		277.9	9.8	24.5	0.8	112.8	865.5	23.9	18.3
	Area Outside Texas Counties		246.9	1,423.6	1,304.9	682.7	940.4	4,061.8	1,280.2	639.8
Total Inflows		--	3,874.8	1,455.6	1,455.7	686.9	4,968.1	8,301.3	1,686.5	900.5
Outflows	GHB	District is not present in layer 1	1,768.0	--	449.3	--	176.3	417.0	752.7	687.4
	Storage		1.9	2.3	3.1	4.9	5.2	68.0	19.7	3.03E-03
	Angelina County		46.2	2.9	7.5	0.6	265.9	1,569.4	5.7	--
	Jasper County		308.8	14.3	52.3	2.0	268.8	1,929.9	65.5	32.7
	Newton County		29.7	3.6	24.8	0.7	--	--	52.8	48.3
	Polk County		169.1	4.3	21.8	0.3	143.2	756.8	22.3	17.5
	Sabine County		152.1	10.5	72.1	1.0	88.7	300.2	--	--
	San Augustine County		25.9	2.7	23.5	0.5	39.3	216.6	3.0	0.6
	Tyler County		31.2	0.8	2.0	0.2	153.5	1,456.6	101.2	56.7
	Area Outside Texas Counties		1,341.8	1,414.3	799.3	676.7	3,827.1	1,587.0	663.6	57.3
Total Outflows		--	3,874.8	1,455.6	1,455.7	686.9	4,968.1	8,301.3	1,686.5	900.5
Net Flows	In-Out	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-11 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
Bowie County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	--	--	--
	Recharge	8,163.2						2,909.4	1,185.5	13.1
	River	2,760.8						--	--	--
	Storage	--						--	--	--
	Well	--						--	--	--
	Cass County	706.0						281.1	66.4	17.2
	Morris County	266.7						--	12.9	3.8
	Red River County	19.4						--	--	3.3
	Area Outside Texas Counties	15,530.7						16,547.9	711.4	564.9
Total Inflows	27,446.7	--	--	--	--	--	19,738.4	1,976.3	602.3	
Outflows	ET	6,630.3	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	891.8	720.2	10.6
	Recharge	--						--	--	--
	River	4,573.0						--	--	--
	Storage	22.8						110.8	24.3	1.6
	Well	--						2,035.4	564.7	120.8
	Cass County	518.4						197.7	103.7	45.4
	Morris County	62.4						--	11.6	1.4
	Red River County	1.0						--	19.4	7.5
	Area Outside Texas Counties	15,638.9						16,502.8	532.5	415.1
Total Outflows	27,446.7	--	--	--	--	--	19,738.4	1,976.3	602.3	
Net Flows	In-Out	0.0	--	--	--	--	--	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	--	--	0.00%	0.00%	0.00%

Note:

Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-12 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Camp County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)			
	(acre-feet per year)											
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	--	--	--	--	--			
	Recharge	2,584.9			1,346.0	1,402.5	1,394.3	283.5	--	--		
	River	474.9			--	--	--	--	--	--		
	Storage	--			--	--	--	--	--	--		
	Well	--			--	--	--	--	--	--		
	Franklin County	84.2			--	--	115.8	74.6	18.4			
	Morris County	138.7			--	--	15.4	17.1	4.3			
	Titus County	200.6			--	--	116.5	171.7	50.4			
	Upshur County	32.2			--	--	218.3	70.2	19.1			
	Wood County	29.9			--	--	155.1	30.7	10.3			
	Area Outside Texas Counties	7,456.1			--	--	5,094.5	193.3	13.8			
Total Inflows	11,001.5	--	--	4,552.3	1,465.1	5,107.4	5,999.1	557.6	116.4			
Outflows	ET	2,047.0	County is not present in layer 2	County is not present in layer 3	216.1	928.0	--	--	--			
	Recharge	--			--	--	--	--	--			
	River	2,023.5			--	--	--	--	--			
	Storage	13.4			33.3	13.1	100.2	40.7	3.7	4.7		
	Well	--			75.2	--	598.5	334.8	237.8	1.9		
	Franklin County	89.2			--	--	51.2	--	--	--		
	Morris County	111.7			--	--	136.7	0.3	75.6	80.8	33.4	7.7
	Titus County	489.3			--	--	0.6	0.2	34.2	842.9	50.3	12.3
	Upshur County	13.4			--	--	79.2	1.4	322.7	414.9	174.2	51.7
	Wood County	0.8			--	--	8.55E-03	1.0	--	6.0	--	--
	Area Outside Texas Counties	6,213.1			--	--	4,011.2	521.0	3,976.2	4,227.7	58.3	38.1
Total Outflows	11,001.5	--	--	4,552.3	1,465.1	5,107.4	5,999.1	557.6	116.4			
Net Flows	In-Out	0.0	--	--	0.0	0.0	0.0	0.0	0.0	0.0		
	Percent Discrepancy	0.00%	--	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%		

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-14 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Franklin County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	--	--	--	--	--
	Recharge	2,228.4				123.0	704.0	1,426.8	173.4	32.8
	River	375.0				--	--	--	--	--
	Storage	--				--	--	--	--	--
	Well	--				--	--	--	--	--
	Camp County	89.2				--	--	51.2	--	--
	Hopkins County	--				1.0	1.6	443.6	80.4	18.8
	Titus County	7.7				--	--	25.1	16.2	0.6
	Wood County	34.4				--	5.5	28.3	7.7	3.3
	Area Outside Texas Counties	7,712.0				--	1,454.1	8,062.0	674.1	345.4
Total Inflows	10,446.8	--	--	--	124.1	2,165.2	10,036.9	951.8	400.8	
Outflows	ET	269.1	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	39.5	--	71.0	0.1	0.5
	Recharge	--				--	--	--	--	
	River	2,395.9				--	--	--	--	
	Storage	16.8				3.8	35.1	126.8	34.3	11.7
	Well	--				--	156.2	188.7	182.5	158.0
	Camp County	84.2				--	--	115.8	74.6	18.4
	Hopkins County	--				--	--	--	12.5	13.4
	Titus County	265.2				--	--	277.0	260.5	112.2
	Wood County	57.1				1.9	150.9	367.4	82.3	26.7
	Area Outside Texas Counties	7,358.4				78.9	1,823.0	8,890.3	305.0	59.8
Total Outflows	10,446.8	--	--	--	124.1	2,165.2	10,036.9	951.8	400.8	
Net Flows	In-Out	0.0	--	--	--	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-15 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Gregg County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	--	--	--	--	--	
	Recharge	4,699.7			3,562.0	984.2	731.3	--	--	--
	River	367.2			--	--	--	--	--	--
	Storage	--			--	--	--	--	--	--
	Well	--			--	--	--	--	--	--
	Harrison County	10.9			87.9	1.2	24.7	32.8	2.7	2.4
	Rusk County	93.1			--	0.9	311.4	1,179.7	83.8	24.6
	Smith County	67.2			186.4	0.9	73.0	111.6	33.0	2.2
	Upshur County	203.8			309.6	0.4	20.2	14.0	13.8	7.0
	Area Outside Texas Counties	7,094.3			2,405.2	493.2	10,775.3	7,207.9	414.4	27.7
Total Inflows	12,536.1	--	--	6,551.1	1,480.8	11,935.8	8,546.0	547.8	64.0	
Outflows	ET	3,869.9	County is not present in layer 2	County is not present in layer 3	1,411.2	480.5	--	--	--	
	Recharge	--			--	--	--	--	--	
	River	2,087.9			--	--	--	--	--	
	Storage	19.7			124.4	13.0	147.3	11.6	6.1	7.9
	Well	--			217.8	--	1,665.5	970.6	402.5	--
	Harrison County	165.4			108.1	1.1	266.4	367.2	38.5	21.5
	Rusk County	30.3			--	2.9	0.7	59.3	48.6	9.7
	Smith County	9.9			104.5	0.9	39.4	259.5	16.3	7.3
	Upshur County	27.4			178.7	0.8	179.1	179.1	7.8	0.9
	Area Outside Texas Counties	6,325.6			4,406.5	981.7	9,637.3	6,698.7	28.0	16.6
Total Outflows	12,536.1	--	--	6,551.1	1,480.8	11,935.8	8,546.0	547.8	64.0	
Net Flows	In-Out	0.0	--	--	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-16 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Harrison County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	--	--	--	--	--	--	--
	Recharge	12,559.6		42.1	4,902.1	2,823.4	546.8	5,828.1	1,750.1	114.8
	River	2,673.4		--	--	--	--	--	--	--
	Storage	--		--	--	--	--	--	--	--
	Well	--		--	--	--	--	--	--	--
	Gregg County	165.4		--	108.1	1.1	266.4	367.2	38.5	21.5
	Marion County	478.5		--	--	1.8	25.4	183.5	44.2	41.4
	Panola County	415.8		--	--	--	--	35.0	44.1	3.1
	Rusk County	183.2		--	--	--	--	22.1	3.3	1.3
	Upshur County	13.0		--	74.3	0.2	80.8	61.8	31.5	8.8
	Area Outside Texas Counties	21,574.0		--	570.9	495.2	5,925.1	22,254.7	2,607.4	1,121.5
Total Inflows	38,062.9	--	42.1	5,655.5	3,321.8	6,844.5	28,752.2	4,519.1	1,312.4	
Outflows	ET	10,987.8	County is not present in layer 2	--	3,260.0	1,882.3	--	1,877.0	1,679.2	237.8
	Recharge	--		--	--	--	--	--	--	--
	River	6,705.5		--	--	--	--	--	--	--
	Storage	30.4		--	115.7	35.7	35.4	285.9	75.2	7.4
	Well	--		--	364.5	--	2,180.9	750.5	453.5	161.8
	Gregg County	10.9		--	87.9	1.2	24.7	32.8	2.7	2.4
	Marion County	372.2		--	611.7	4.8	94.8	300.4	219.2	66.9
	Panola County	351.8		--	--	--	--	57.8	272.1	88.7
	Rusk County	66.7		--	--	--	--	14.2	2.1	1.3
	Upshur County	0.5		--	71.3	0.2	32.5	19.4	--	--
	Area Outside Texas Counties	19,537.2		42.1	1,144.4	1,397.6	4,476.2	25,414.1	1,815.0	746.1
Total Outflows	38,062.9	--	42.1	5,655.5	3,321.8	6,844.5	28,752.2	4,519.1	1,312.4	
Net Flows	In-Out	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-17 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Hopkins County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	--	--	--	--	
	Recharge	4,401.6				98.4	403.2	1,096.8	637.1	1,207.3
	River	82.4				--	--	--	--	--
	Storage	--				--	--	--	--	--
	Well	--				--	--	--	--	--
	Franklin County	--				--	--	--	12.5	13.4
	Rains County	10.8				--	--	--	--	1.7
	Wood County	113.6				--	7.7	43.5	29.4	13.7
	Area Outside Texas Counties	3,771.4				--	97.4	4,579.8	1,179.3	1,128.2
Total Inflows	8,379.8	--	--	--	98.4	508.4	5,720.2	1,858.4	2,364.3	
Outflows	ET	424.6	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	3.0	--	2.4	0.4	9.0
	Recharge	--				--	--	--	--	
	River	2,178.1				--	--	--	--	
	Storage	56.5				1.4	16.7	173.0	154.7	182.7
	Well	--				--	21.6	212.9	730.7	1,628.5
	Franklin County	--				1.0	1.6	443.6	80.4	18.8
	Rains County	37.4				--	--	--	--	88.4
	Wood County	454.9				2.0	112.6	460.0	255.2	113.5
	Area Outside Texas Counties	5,228.3				90.9	355.9	4,428.3	637.0	323.4
Total Outflows	8,379.8	--	--	--	98.4	508.4	5,720.2	1,858.4	2,364.3	
Net Flows	In-Out	0.0	--	--	--	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-18 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Houston County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	--	--	--	--	
	GHB	--	8,608.0	--	--	--	--	--	--	
	Recharge	7,456.5	8,328.0	1,021.0	1,381.3	--	--	--	--	
	River	279.0	--	--	--	--	--	--	--	
	Storage	--	--	--	--	--	--	--	3.1	
	Well	--	--	--	--	--	--	--	--	
	Anderson County	132.7	19.6	2.5	864.8	2.1	328.6	945.6	102.2	25.4
	Angelina County	--	32.3	0.2	10.8	0.1	26.7	93.1	6.8	1.6
	Cherokee County	373.6	212.6	4.5	156.3	0.9	337.4	1,080.8	93.7	20.7
	Leon County	411.0	425.3	3.2	530.6	1.4	512.8	1,968.5	129.9	45.4
	Madison County	--	252.8	1.4	156.4	0.5	202.1	996.3	50.3	24.6
	Trinity County	--	95.7	0.4	27.1	--	--	--	--	--
	Walker County	--	31.6	0.1	8.9	--	--	--	--	--
	Area Outside Texas Counties	22,659.9	425.9	3,287.3	21,252.2	854.4	1,619.4	847.3	100.9	12.5
Total Inflows	31,312.7	18,431.8	4,320.5	24,388.6	859.5	3,027.1	5,931.7	483.8	133.4	
Outflows	ET	4,101.2	4,478.2	71.2	17.9	--	--	--	--	
	GHB	--	5,477.6	--	--	--	--	--	--	
	Recharge	--	--	--	--	--	--	--	--	
	River	5,397.8	--	--	--	--	--	--	--	
	Storage	17.8	54.3	88.2	99.0	18.8	15.7	95.5	52.8	14.1
	Well	--	702.8	--	191.5	--	831.8	2.7	0.01	--
	Anderson County	117.7	62.4	0.8	963.4	2.9	56.6	175.1	20.3	4.9
	Angelina County	--	1.8	1.2	64.5	1.3	322.7	1,147.2	40.5	8.1
	Cherokee County	932.4	273.8	4.0	528.3	3.3	474.0	1,586.9	68.7	16.0
	Leon County	2,065.3	738.3	8.6	1,454.0	1.9	--	--	--	--
	Madison County	--	200.0	0.030	35.5	0.1	63.1	250.1	14.7	7.9
	Trinity County	--	663.9	6.5	363.5	3.1	337.7	1,338.8	156.4	42.3
	Walker County	--	135.4	0.4	68.7	0.3	152.5	446.6	42.9	21.5
	Area Outside Texas Counties	18,680.5	5,643.5	4,139.7	20,601.6	827.5	779.7	889.8	87.5	18.5
Total Outflows	31,312.7	18,431.8	4,320.7	24,387.8	859.1	3,033.7	5,932.6	483.8	133.4	
Net Flows	In-Out	0.0	0.0	-0.2	0.8	0.5	-6.7	-0.9	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	-0.01%	0.00%	0.05%	-0.22%	-0.02%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-19 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Limestone County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	--	--	--
	Recharge	2,447.3						2,083.3	548.4	406.8
	River	1,542.4						--	--	--
	Storage	--						--	--	--
	Well	--						--	--	--
	Freestone County	11.6						17.3	44.0	33.0
	Leon County	--						29.2	2.0	4.9
	Robertson County	--						3.5	1.1	2.8
	Area Outside Texas Counties	6,374.7						6,891.9	1,065.1	428.0
Total Inflows	10,375.9	--	--	--	--	--	9,025.1	1,660.5	875.5	
Outflows	ET	2,110.4	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	--	19.3	135.5
	Recharge	--						--	--	--
	River	1,274.1						--	--	--
	Storage	2.1						90.3	100.4	38.8
	Well	--						40.5	1,260.5	378.3
	Freestone County	9.1						279.4	63.3	75.3
	Leon County	62.8						683.2	24.6	5.7
	Robertson County	30.3						412.6	18.5	9.3
	Area Outside Texas Counties	6,887.1						7,519.0	173.9	232.7
Total Outflows	10,375.9	--	--	--	--	--	9,025.1	1,660.5	875.5	
Net Flows	In-Out	0.0	--	--	--	--	--	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	--	--	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-20 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Marion County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	--	--	--	--	--
	Recharge	8,094.4	64.0	84.2	3,426.8	1,648.5	--	920.2	64.5	--
	River	1,165.7	--	--	--	--	--	--	--	--
	Storage	--	--	--	--	--	--	--	--	--
	Well	--	--	--	--	--	--	--	--	--
	Cass County	151.7	--	--	279.3	5.6	243.2	289.3	93.6	24.2
	Harrison County	372.2	--	--	611.7	4.8	94.8	300.4	219.2	66.9
	Morris County	23.7	--	--	164.8	0.5	36.4	64.7	27.6	6.1
	Upshur County	174.3	--	--	263.9	0.5	72.2	82.2	57.1	8.5
	Area Outside Texas Counties	16,811.2	--	--	3,574.9	305.5	1,740.1	10,157.9	272.9	148.3
Total Inflows	26,793.3	64.0	84.2	8,321.3	1,965.5	2,186.7	11,814.9	734.9	254.0	
Outflows	ET	2,701.7	--	28.9	1,435.5	1,171.2	--	447.1	28.5	--
	Recharge	--	--	--	--	--	--	--	--	--
	River	10,441.3	--	--	--	--	--	--	--	--
	Storage	2.9	--	0.1	97.6	6.9	0.5	16.6	3.6	2.4
	Well	--	--	--	135.5	--	753.5	221.6	166.2	0.3
	Cass County	94.5	--	--	92.5	17.0	31.7	98.8	30.2	10.5
	Harrison County	478.5	--	--	--	1.8	25.4	183.5	44.2	41.4
	Morris County	2.3	--	--	2.0	--	13.3	21.0	6.6	1.9
	Upshur County	86.7	--	--	86.3	0.01	--	--	--	--
	Area Outside Texas Counties	12,985.3	64.0	55.2	6,472.0	768.5	1,362.3	10,826.2	455.6	197.5
Total Outflows	26,793.3	64.0	84.2	8,321.3	1,965.5	2,186.7	11,814.9	734.9	254.0	
Net Flows	In-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-22 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Navarro County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	County is not present in layer 7	--	
	Recharge	3,008.0							--	734.9
	River	28.8							--	--
	Storage	--							--	--
	Well	--							--	--
	Anderson County	--							0.1	--
	Freestone County	103.4							0.6	34.0
	Henderson County	988.2							3.6	67.6
	Area Outside Texas Counties	937.3							8.0	386.7
Total Inflows	5,065.8	--	--	--	--	--	--	12.3	1,223.1	
Outflows	ET	927.3	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	County is not present in layer 7	--	43.9
	Recharge	--							--	--
	River	3,326.6							--	--
	Storage	1.0							0.005	41.0
	Well	--							0.4	101.4
	Anderson County	--							--	1.0
	Freestone County	254.3							0.7	76.7
	Henderson County	182.8							0.5	23.0
	Area Outside Texas Counties	373.8							10.7	936.2
Total Outflows	5,065.8	--	--	--	--	--	--	12.3	1,223.1	
Net Flows	In-Out	0.0	--	--	--	--	--	--	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	--	--	--	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-23 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Rains County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	--	--	--
	Recharge	3,160.2						185.9	367.0	921.9
	River	134.9						--	--	--
	Storage	--						--	--	--
	Well	--						--	--	--
	Hopkins County	37.4						--	--	88.4
	Van Zandt County	247.8						2.7	--	16.1
	Wood County	35.6						44.4	47.8	31.0
	Area Outside Texas Counties	1,098.1						371.7	69.8	252.3
Total Inflows	4,714.1	--	--	--	--	--	604.6	484.5	1,309.6	
Outflows	ET	750.0	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	--	17.4	240.7
	Recharge	--						--	--	--
	River	2,631.7						--	--	--
	Storage	4.6						3.7	48.5	54.2
	Well	--						148.4	116.9	268.0
	Hopkins County	10.8						--	--	1.7
	Van Zandt County	606.4						10.5	121.8	66.8
	Wood County	26.2						12.9	110.5	50.9
	Area Outside Texas Counties	684.3						429.1	69.4	627.3
Total Outflows	4,714.1	--	--	--	--	--	604.6	484.5	1,309.6	
Net Flows	In-Out	0.0	--	--	--	--	--	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	--	--	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-24 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Red River County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	County is not present in layer 7	--	--
	Recharge	292.9							24.2	--
	River	24.0							--	--
	Storage	--							--	--
	Well	--							--	--
	Bowie County	1.0							19.4	7.5
	Morris County	69.1							34.4	14.3
	Area Outside Texas Counties	74.9							--	43.7
Total Inflows	461.8	--	--	--	--	--	--	77.9	65.5	
Outflows	ET	242.7	County is not present in layer 2	County is not present in layer 3	County is not present in layer 4	County is not present in layer 5	County is not present in layer 6	County is not present in layer 7	30.6	--
	Recharge	--							--	--
	River	146.8							--	--
	Storage	0.028							0.1	4.68E-03
	Well	--							1.0	0.3
	Bowie County	19.4							--	3.3
	Morris County	33.8							2.2	4.5
	Area Outside Texas Counties	19.0							44.0	57.4
Total Outflows	461.8	--	--	--	--	--	--	77.9	65.5	
Net Flows	In-Out	0.0	--	--	--	--	--	--	0.0	0.0
	Percent Discrepancy	0.00%	--	--	--	--	--	--	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-25 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Sabine County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	--	--	--	--	--
	GHB	--	814.3	--	--	--	--	--	--	--
	Recharge	3,622.0	1,151.5	336.8	--	246.0	669.8	1,380.3	--	--
	River	70.2	--	--	--	--	--	--	--	--
	Storage	--	--	--	--	--	--	--	--	0.1
	Well	--	--	--	--	--	--	--	--	--
	Jasper County	--	42.2	3.3	30.3	0.5	23.7	86.7	--	--
	Newton County	--	109.9	7.1	41.8	0.5	65.1	213.5	--	--
	San Augustine County	0.8	427.8	11.4	9.4	1.6	91.3	763.4	83.6	33.5
	Shelby County	54.7	--	--	--	--	--	433.4	44.4	8.4
	Area Outside Texas Counties	7,103.0	177.3	308.2	277.7	323.7	1,682.8	6,997.3	239.9	100.0
Total Inflows	10,850.7	2,723.0	666.9	359.3	572.3	2,532.6	9,874.5	368.0	142.1	
Outflows	ET	3,552.0	774.3	247.6	--	120.3	14.6	97.4	--	--
	GHB	--	785.8	--	--	--	--	--	--	--
	Recharge	--	--	--	--	--	--	--	--	--
	River	2,615.1	--	--	--	--	--	--	--	--
	Storage	4.0	3.3	1.1	1.3	6.5	21.4	92.2	18.2	5.6
	Well	--	46.1	--	--	--	412.8	177.3	46.1	46.1
	Jasper County	--	8.8	0.5	5.4	0.1	15.7	52.1	24.2	10.4
	Newton County	--	2.6	0.2	--	--	20.7	61.9	72.8	50.0
	San Augustine County	10.7	176.9	6.1	45.4	1.1	182.3	807.4	78.1	16.2
	Shelby County	13.5	--	--	--	--	--	212.4	3.9	0.0
	Area Outside Texas Counties	4,655.4	925.1	411.4	307.1	444.4	1,865.1	8,373.8	124.7	13.7
Total Outflows	10,850.7	2,723.0	666.9	359.3	572.3	2,532.6	9,874.5	368.0	142.1	
Net Flows	In-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-26 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 San Augustine County**

Mass Balance Components		Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)
		(acre-feet per year)								
Inflows	ET	--	--	--	--	--	--	--	--	--
	GHB	--	1,292.0	--	--	--	--	--	--	--
	Recharge	2,430.6	3,592.9	947.3	23.5	541.3	888.5	804.0	--	--
	River	222.2	--	--	--	--	--	--	--	--
	Storage	--	--	--	--	--	--	--	--	0.1
	Well	--	--	--	--	--	--	--	--	--
	Angelina County	--	17.1	0.5	1.5	4.00E-02	32.6	204.0	--	--
	Jasper County	--	25.9	2.7	23.5	0.5	39.3	216.6	3.0	0.6
	Nacogdoches County	144.5	107.8	0.9	4.9	1.4	35.4	479.1	57.7	8.7
	Sabine County	10.7	176.9	6.1	45.4	1.1	182.3	807.4	78.1	16.2
	Shelby County	48.2	--	--	--	--	--	2,540.2	244.8	31.9
Area Outside Texas Counties	1,968.1	97.9	478.1	391.4	512.5	3,249.4	3,889.3	188.6	49.8	
Total Inflows		4,824.4	5,310.4	1,435.6	490.3	1,056.7	4,427.6	8,940.6	572.1	107.3
Outflows	ET	1,362.8	1,879.9	720.9	22.4	182.5	--	--	--	--
	GHB	--	1,639.0	--	--	--	--	--	--	--
	Recharge	--	--	--	--	--	--	--	--	--
	River	444.4	--	--	--	--	--	--	--	--
	Storage	2.4	26.4	3.9	0.8	15.5	72.7	167.4	30.4	6.3
	Well	--	21.0	--	--	--	371.5	325.0	9.5	9.5
	Angelina County	--	24.2	0.6	2.8	0.2	109.8	693.0	65.6	11.0
	Jasper County	--	4.4	0.5	4.3	0.1	14.6	84.9	23.4	9.4
	Nacogdoches County	674.8	457.2	4.6	26.3	1.6	368.4	4,270.3	308.4	37.6
	Sabine County	0.8	427.8	11.4	9.4	1.6	91.3	763.4	83.6	33.5
	Shelby County	--	--	--	--	--	--	52.0	--	--
Area Outside Texas Counties	2,339.3	830.4	693.7	424.3	855.2	3,399.3	2,584.6	51.2	--	
Total Outflows		4,824.4	5,310.4	1,435.6	490.3	1,056.7	4,427.6	8,940.6	572.1	107.3
Net Flows	In-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-27 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Shelby County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	County is not present in layer 5	--	--	--	--
	Recharge	11,615.3	127.9	63.2	--		697.1	8,388.9	2,996.1	--
	River	895.2	--	--	--		--	--	--	--
	Storage	--	--	--	--		--	--	--	--
	Well	--	--	--	--		--	--	--	--
	Nacogdoches County	171.5	--	--	--		--	267.1	39.9	3.8
	Panola County	5.8	--	--	--		--	39.3	212.4	12.7
	Rusk County	104.2	--	--	--		--	214.3	31.0	1.6
	Sabine County	13.5	--	--	--		--	212.4	3.9	0.031
	San Augustine County	--	--	--	--		--	52.0	--	--
	Area Outside Texas Counties	28,493.3	--	--	21.1		--	65.2	26,981.3	1,872.3
Total Inflows	41,298.8	127.9	63.2	21.1	--	762.3	36,155.4	5,155.6	199.7	
Outflows	ET	8,141.6	--	--	--	County is not present in layer 5	--	1,566.5	2,110.4	--
	Recharge	--	--	--	--		--	--	--	--
	River	6,044.6	--	--	--		--	--	--	--
	Storage	41.2	--	2.6	--		2.4	589.2	249.1	14.5
	Well	--	--	--	--		73.1	824.6	1,546.8	27.4
	Nacogdoches County	312.9	--	--	--		--	638.5	196.7	22.4
	Panola County	52.1	--	--	--		--	262.1	285.4	28.5
	Rusk County	87.9	--	--	--		--	72.6	87.1	5.3
	Sabine County	54.7	--	--	--		--	433.4	44.4	8.4
	San Augustine County	48.2	--	--	--		--	2,540.2	244.8	31.9
	Area Outside Texas Counties	26,515.6	127.9	60.4	21.2		688.6	29,227.5	391.0	61.4
Total Outflows	41,298.8	127.9	63.0	21.2	--	764.1	36,154.6	5,155.6	199.7	
Net Flows	In-Out	0.0	0.0	0.2	-0.1	--	-1.8	0.8	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	0.27%	-0.51%	--	-0.24%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-28 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Smith County**

Mass Balance Components		Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)
		(acre-feet per year)								
Inflows	ET	--	--	--	--	--	--	--	--	--
	Recharge	13,650.9	9,084.1	2,599.8	10,192.1	1,070.3	471.6	--	--	--
	River	819.3	--	--	--	--	--	--	--	--
	Storage	--	--	--	--	0.6	--	--	--	--
	Well	--	--	--	--	--	--	--	--	--
	Cherokee County	29.0	--	0.3	160.1	6.4	471.1	1,493.7	333.7	45.6
	Gregg County	9.9	--	--	104.5	0.9	39.4	259.5	16.3	7.3
	Henderson County	353.4	--	--	420.0	1.2	507.4	823.0	209.3	64.8
	Rusk County	84.6	--	--	--	3.5	332.0	951.2	174.1	21.6
	Upshur County	524.7	--	--	327.2	0.3	49.9	68.1	38.9	8.5
	Van Zandt County	235.8	--	--	168.3	1.0	548.5	1,933.5	497.5	118.0
	Wood County	1,633.4	--	0.1	677.8	4.4	471.0	633.1	359.7	75.2
	Area Outside Texas Counties	25,904.8	--	3,809.2	22,019.9	3,940.1	10,673.3	7,324.0	842.0	28.4
Total Inflows	43,245.7	9,084.1	6,409.4	34,069.9	5,028.6	13,564.3	13,486.0	2,471.5	369.4	
Outflows	ET	5,610.3	4,805.6	92.4	1,382.1	528.9	--	--	--	--
	Recharge	--	--	--	--	--	--	--	--	--
	River	18,678.1	--	--	--	--	--	--	--	--
	Storage	39.1	29.0	170.7	554.6	53.4	748.6	112.7	71.7	69.7
	Well	--	--	--	1,070.3	--	6,633.1	5,801.6	1,881.1	--
	Cherokee County	117.9	--	--	419.3	3.9	103.0	397.9	36.0	5.8
	Gregg County	67.2	--	--	186.4	0.9	73.0	111.6	33.0	2.2
	Henderson County	404.2	--	--	297.4	0.0	--	--	--	0.1
	Rusk County	192.5	--	--	0.2	4.6	--	8.1	73.4	--
	Upshur County	181.4	--	--	33.9	0.03	6.0	7.4	0.6	--
	Van Zandt County	190.9	--	--	151.6	0.8	146.1	329.5	61.9	21.3
	Wood County	320.4	--	0.1	88.6	0.3	87.4	287.4	87.6	16.5
	Area Outside Texas Counties	17,443.8	4,249.5	6,146.1	29,885.4	4,435.8	5,767.2	6,429.7	226.3	253.9
Total Outflows	43,245.7	9,084.1	6,409.4	34,069.9	5,028.6	13,564.3	13,486.0	2,471.5	369.4	
Net Flows	In-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-29 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Titus County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	County is not present in layer 3	--	--	--	--	--	
	Recharge	7,570.1			123.4	553.6	355.4	2,384.2	854.9	301.8
	River	633.4			--	--	--	--	--	--
	Storage	--			--	--	--	--	--	--
	Well	--			--	--	--	--	--	--
	Camp County	489.3			0.6	0.2	34.2	842.9	50.3	12.3
	Franklin County	265.2			--	--	--	277.0	260.5	112.2
	Morris County	35.9			57.6	0.9	25.7	132.0	10.7	7.3
	Area Outside Texas Counties	17,431.9			374.2	12.9	3,388.2	15,970.0	1,172.4	665.8
Total Inflows	26,425.8	--	--	555.8	567.6	3,803.5	19,606.1	2,348.8	1,099.5	
Outflows	ET	1,028.8	County is not present in layer 2	County is not present in layer 3	46.5	357.5	--	134.9	80.6	101.1
	Recharge	--			--	--	--	--	--	--
	River	9,949.1			--	--	--	--	--	--
	Storage	22.9			1.7	2.7	13.1	183.5	187.7	16.5
	Well	--			0.7	--	334.0	379.5	1,075.1	15.3
	Camp County	200.6			0.5	2.23E-03	8.1	116.5	171.7	50.4
	Franklin County	7.7			--	--	--	25.1	16.2	0.6
	Morris County	51.2			74.6	1.5	162.1	198.1	419.3	56.0
	Area Outside Texas Counties	15,165.4			431.8	205.9	3,286.2	18,568.4	398.0	859.5
Total Outflows	26,425.8	--	--	555.8	567.6	3,803.5	19,606.1	2,348.8	1,099.5	
Net Flows	In-Out	0.0	--	--	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-30 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Trinity County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	--	--	--	--	
	GHB	1,130.6	--	--	--	--	--	--	--	
	Storage	--	--	--	--	--	--	--	6.2	
	Well	--	--	--	--	--	--	--	--	
	Angelina County	County is not present in layer 1	42.8	0.9	9.3	0.1	39.3	183.7	7.4	1.7
	Houston County		663.9	6.5	363.5	3.1	337.7	1,338.8	156.4	42.3
	Polk County		70.8	2.3	28.9	0.9	148.2	1,051.7	4.4	--
	San Jacinto County		38.1	0.4	9.2	0.2	56.5	585.6	27.3	11.2
	Walker County		114.2	0.7	50.7	0.3	286.3	1,034.5	72.6	29.8
	Area Outside Texas Counties		136.8	524.4	380.6	519.5	570.9	518.4	70.3	15.6
Total Inflows	--		2,197.2	535.1	842.1	524.0	1,439.0	4,712.7	338.4	106.7
Outflows	ET		--	--	--	--	--	--	--	--
	GHB		1,195.1	--	--	--	--	--	--	--
	Storage	2.4	1.2	4.7	7.6	6.4	64.4	24.4	0.5	
	Well	14.6	--	--	--	19.8	--	--	--	
	Angelina County	County is not present in layer 1	272.2	5.4	72.7	3.5	803.8	3,390.2	123.8	22.8
	Houston County		95.7	0.4	27.1	--	--	--	--	--
	Polk County		140.3	2.6	45.3	0.9	107.2	887.1	81.0	41.9
	San Jacinto County		29.4	0.4	10.4	0.1	24.6	182.6	23.0	14.5
	Walker County		57.8	0.2	18.6	1.35E-02	14.1	73.9	15.4	12.5
	Area Outside Texas Counties		389.7	524.9	663.1	512.1	463.1	114.6	70.9	14.5
Total Outflows	--		2,197.2	535.1	842.1	524.0	1,439.0	4,712.7	338.4	106.7
Net Flows	In-Out		--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy		--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-31 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Upshur County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	--	--	--	--	--
	Recharge	6,667.5	367.8	115.8	9,369.3	565.9	574.1	--	--	--
	River	1,660.0	--	--	--	--	--	--	--	--
	Storage	--	--	--	--	--	--	--	--	--
	Well	--	--	--	--	--	--	--	--	--
	Camp County	13.4	--	--	79.2	1.4	322.7	414.9	174.2	51.7
	Gregg County	27.4	--	--	178.7	0.8	179.1	179.1	7.8	0.9
	Harrison County	0.5	--	--	71.3	0.2	32.5	19.4	--	--
	Marion County	86.7	--	--	86.3	0.013	--	--	--	--
	Morris County	31.7	--	--	67.2	0.1	--	--	--	--
	Smith County	181.4	--	--	33.9	0.032	6.0	7.4	0.6	--
	Wood County	188.3	11.4	1.8	462.2	1.1	227.4	325.1	114.5	31.2
	Area Outside Texas Counties	15,405.1	--	190.4	9,962.9	1,233.2	10,481.3	7,283.4	341.8	32.1
Total Inflows	24,261.8	379.2	308.0	20,310.9	1,802.7	11,823.3	8,229.4	638.9	115.9	
Outflows	ET	2,446.6	121.4	1.0	1,005.4	256.8	--	--	--	--
	Recharge	--	--	--	--	--	--	--	--	--
	River	7,638.6	--	--	--	--	--	--	--	--
	Storage	25.1	3.0	12.6	523.0	33.7	122.7	8.8	10.9	12.5
	Well	--	--	--	1,200.3	--	2,692.7	1,567.1	310.9	--
	Camp County	32.2	--	--	324.0	1.6	145.5	218.3	70.2	19.1
	Gregg County	203.8	--	--	309.6	0.4	20.2	14.0	13.8	7.0
	Harrison County	13.0	--	--	74.3	0.2	80.8	61.8	31.5	8.8
	Marion County	174.3	--	--	263.9	0.5	72.2	82.2	57.1	8.5
	Morris County	31.6	--	--	18.0	2.75E-02	33.5	23.5	9.3	2.5
	Smith County	524.7	--	--	327.2	0.3	49.9	68.1	38.9	8.5
	Wood County	43.2	64.6	4.1	440.2	1.8	342.7	437.9	29.7	3.4
	Area Outside Texas Counties	13,128.7	190.2	290.3	15,825.1	1,507.4	8,262.9	5,747.9	66.5	45.5
Total Outflows	24,261.8	379.2	308.0	20,310.9	1,802.7	11,823.3	8,229.4	638.9	115.9	
Net Flows	In-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-32 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Van Zandt County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	County is not present in layer 2	--	--	--	--	--	--	
	Recharge	10,034.1		136.8	2,080.8	621.3	519.4	4,261.8	935.5	1,942.1
	River	905.0		--	--	--	--	--	--	--
	Storage	--		--	--	--	--	--	--	--
	Well	--		--	--	--	--	--	--	--
	Henderson County	29.3		--	22.5	2.4	408.2	599.5	143.3	49.3
	Rains County	606.4		--	--	--	--	10.5	121.8	66.8
	Smith County	190.9		--	151.6	0.8	146.1	329.5	61.9	21.3
	Wood County	55.4		--	--	--	--	36.7	31.6	11.8
	Area Outside Texas Counties	15,531.6		--	--	1,858.2	417.2	4,503.0	16,680.6	2,178.9
Total Inflows	27,352.9	--	136.8	4,113.0	1,041.7	5,576.8	21,918.6	3,473.0	3,577.6	
Outflows	ET	1,595.0	County is not present in layer 2	--	369.5	348.5	--	--	3.6	1,030.5
	Recharge	--		--	--	--	--	--	--	--
	River	6,822.5		--	--	--	--	--	--	--
	Storage	46.6		11.7	85.9	26.6	141.0	753.5	201.5	145.3
	Well	--		--	238.2	--	800.8	904.6	1,959.8	838.1
	Henderson County	384.7		0.1	818.9	3.8	720.8	1,590.9	406.3	224.7
	Rains County	247.8		--	--	--	--	2.7	--	16.1
	Smith County	235.8		--	168.3	1.0	548.5	1,933.5	497.5	118.0
	Wood County	42.5		--	--	--	--	7.7	3.1	0.2
	Area Outside Texas Counties	17,978.0		125.1	2,432.1	661.9	3,365.6	16,725.7	401.3	1,204.8
Total Outflows	27,352.9	--	136.8	4,113.0	1,041.7	5,576.8	21,918.6	3,473.0	3,577.6	
Net Flows	In-Out	0.0	--	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	--	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

**Appendix A Table A-33 Water Budget by Groundwater Conservation District or Texas County for Transient 1980 to 2013 Simulation
 Wood County**

Mass Balance Components	Layer 1 Flow (Quaternary Alluvium)	Layer 2 Flow (Sparta Aquifer)	Layer 3 Flow (Weches Formation)	Layer 4 Flow (Queen City Aquifer)	Layer 5 Flow (Reklaw Formation)	Layer 6 Flow (Carrizo Aquifer)	Layer 7 Flow (Upper Wilcox)	Layer 8 Flow (Middle Wilcox)	Layer 9 Flow (Lower Wilcox)	
	(acre-feet per year)									
Inflows	ET	--	--	--	--	--	--	--	--	--
	Recharge	10,381.2	1,999.1	473.6	6,007.1	1,574.7	1,544.6	1,603.4	237.9	16.4
	River	1,910.7	--	--	--	--	--	--	--	--
	Storage	--	--	--	--	--	--	--	--	--
	Well	--	--	--	--	--	--	--	--	--
	Camp County	0.8	--	--	0.01	1.0	--	6.0	--	--
	Franklin County	57.1	--	--	--	1.9	150.9	367.4	82.3	26.7
	Hopkins County	454.9	--	--	--	2.0	112.6	460.0	255.2	113.5
	Rains County	26.2	--	--	--	--	--	12.9	110.5	50.9
	Smith County	320.4	--	0.1	88.6	0.3	87.4	287.4	87.6	16.5
	Upshur County	43.2	64.6	4.1	440.2	1.8	342.7	437.9	29.7	3.4
	Van Zandt County	42.5	--	--	--	--	--	7.7	3.1	0.2
Area Outside Texas Counties	26,274.8	--	700.4	7,152.7	727.5	11,449.7	21,215.7	627.2	85.6	
Total Inflows	39,512.0	2,063.8	1,178.3	13,688.6	2,309.2	13,688.0	24,398.4	1,433.5	313.2	
Outflows	ET	2,272.5	864.2	36.2	835.4	1,069.5	--	188.2	46.3	--
	Recharge	--	--	--	--	--	--	--	--	--
	River	12,198.5	--	--	--	--	--	--	--	--
	Storage	12.5	5.9	15.9	339.3	21.3	129.7	72.1	38.5	21.5
	Well	--	--	--	1,540.9	--	2,992.9	1,521.7	522.3	8.4
	Camp County	29.9	--	--	1.3	--	40.3	155.1	30.7	10.3
	Franklin County	34.4	--	--	--	--	5.5	28.3	7.7	3.3
	Hopkins County	113.6	--	--	--	--	7.7	43.5	29.4	13.7
	Rains County	35.6	--	--	--	--	--	44.4	47.8	31.0
	Smith County	1,633.4	--	0.1	677.8	4.4	471.0	633.1	359.7	75.2
	Upshur County	188.3	11.4	1.8	462.2	1.1	227.4	325.1	114.5	31.2
	Van Zandt County	55.4	--	--	--	--	--	36.7	31.6	11.8
Area Outside Texas Counties	22,938.0	1,182.3	1,124.2	9,831.7	1,212.9	9,813.5	21,350.3	205.0	106.8	
Total Outflows	39,512.0	2,063.8	1,178.3	13,688.6	2,309.2	13,688.0	24,398.4	1,433.5	313.2	
Net Flows	In-Out	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Percent Discrepancy	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%

Note:
 Pumping was not simulated in model layers 1, 3, and 5 (Quaternary Alluvium, Weches Formation, and Reklaw Formation).

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
4	3451906	7/19/1993 to 9/19/2002	2	1	Unconfined
4	3452507	11/17/1981 to 11/15/2013	27	1	Unconfined
4	3453301	11/11/1981 to 11/9/1999	17	0.7	Confined
4	3453303	5/2/1988	1	0.5	Confined
4	3453304	1/6/1989	1	0.5	Confined
4	3453305	9/18/1984	1	0.5	Confined
4	3455106	9/8/1985	1	0.7	Unconfined
4	3455301	3/23/1982	1	0.7	Unconfined
4	3455401	3/25/1998	1	0.7	Unconfined
4	3458802	3/18/1981 to 10/22/1993	12	1	Unconfined
4	3460409	5/9/1988	1	0.7	Unconfined
4	3460502	6/9/1982 to 11/15/2013	33	1	Unconfined
4	3460506	7/10/1985 to 11/7/1989	2	1	Unconfined
4	3460604	3/19/1981	1	0.7	Unconfined
4	3461905	3/17/1981 to 11/12/2013	35	1	Unconfined
4	3462305	3/17/1981 to 11/13/2012	32	1	Confined
4	3462704	2/14/1989	1	0.7	Unconfined
4	3463204	11/20/1981 to 11/13/2012	33	1	Unconfined
4	3463504	6/10/1982 to 11/13/2013	33	1	Unconfined
4	3501806	11/10/1981 to 11/14/2013	32	1	Unconfined
4	3501807	5/1/1984	1	0.7	Unconfined
4	3502503	8/2/1995 to 11/13/2013	21	1	Unconfined
4	3503704	8/13/1991 to 11/9/1992	7	1	Unconfined, Under Layer 1
4	3506302	11/4/1982 to 11/8/1996	14	1	Unconfined
4	3506401	11/3/1982 to 11/13/2013	32	1	Unconfined
4	3507402	3/18/1981 to 11/13/2013	28	0.99	Unconfined
4	3508506	8/7/1982	1	0.7	Unconfined
4	3509303	5/19/1998	1	0.7	Unconfined
4	3510102	3/17/1981 to 11/15/2000	20	1	Unconfined
4	3510501	11/10/1981 to 11/14/2012	30	1	Unconfined
4	3510502	3/17/1981 to 11/14/2013	33	1	Unconfined
4	3512403	5/13/1998 to 9/11/2002	2	1	Unconfined
4	3517208	7/20/1985 to 4/13/1989	2	1	Unconfined
4	3517701	3/17/1981 to 11/4/2004	23	1	Unconfined, Under Layer 1
4	3518701	3/17/1981 to 11/14/1995	15	1	Unconfined
4	3518706	5/19/1998	1	0.7	Unconfined
4	3520903	3/20/1981 to 1/17/2006	25	1	Unconfined
4	3521401	11/12/1981 to 12/10/2008	27	1	Unconfined
4	3525603	5/13/1998	1	0.7	Unconfined
4	3526401	3/16/1981 to 11/12/2012	32	1	Unconfined
4	3526404	7/25/2002	1	0.7	Unconfined
4	3527101	11/10/1981 to 11/12/2012	29	1	Unconfined
4	3527104	5/12/1998	1	0.7	Unconfined
4	3527402	11/10/1981 to 11/11/2004	23	1	Unconfined
4	3528101	11/12/1981 to 11/17/1986	5	1	Unconfined
4	3529101	3/20/1981 to 12/3/2010	28	1	Unconfined
4	3717907	4/9/2000	1	0.7	Unconfined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
4	3718104	9/12/1993	1	0.7	Unconfined
4	3727103	2/17/1980 to 11/19/2013	23	1	Confined
4	3748305	12/7/1982 to 11/30/1989	5	1	Confined
4	3803101	3/19/1981 to 11/13/2013	31	0.99	Unconfined
4	3804102	3/13/2002	1	0.7	Unconfined
4	3804403	11/18/1981 to 11/11/1996	12	1	Unconfined
4	3805703	3/14/2002	1	0.5	Unconfined, Under Layer 1
4	3805806	3/14/1988	1	0.7	Unconfined
4	3806106	3/17/1981 to 12/16/1993	13	1	Unconfined
4	3806107	5/31/1983	1	0.7	Unconfined
4	3806205	3/17/1982 to 11/13/2012	30	0.98	Unconfined
4	3806409	9/29/1987	1	0.7	Unconfined
4	3806608	10/28/1987	1	0.7	Unconfined
4	3807105	8/15/1984	1	0.7	Unconfined
4	3807106	3/15/1988	1	0.7	Unconfined
4	3807403	4/26/1988	1	0.7	Unconfined
4	3807404	4/26/1988	1	0.7	Unconfined
4	3807509	3/28/2002	1	0.7	Unconfined
4	3808207	3/17/1981 to 11/9/2006	23	0.92	Unconfined
4	3811802	11/18/1981 to 11/12/1996	12	1	Unconfined
4	3812501	11/18/1981	1	0.7	Unconfined
4	3812903	7/3/1986	1	0.7	Unconfined
4	3815107	10/27/1982	1	0.7	Unconfined
4	3815803	3/16/1981 to 11/9/1995	16	1	Unconfined
4	3820201	11/6/1991	1	0.5	Unconfined
4	3821507	3/20/1981 to 11/18/1981	2	1	Unconfined
4	3821904	11/18/1981 to 11/14/2013	29	1	Unconfined, Under Layer 1
4	3822802	3/26/2002	1	0.7	Unconfined
4	3823203	3/18/1982 to 11/13/1992	11	1	Unconfined
4	3824101	3/18/1982 to 11/9/1995	14	1	Unconfined
4	3824102	3/18/1982 to 11/12/2013	32	1	Unconfined
4	3828604	7/3/1987	1	0.5	Confined
4	3830202	11/18/1981 to 10/11/1990	8	1	Unconfined
4	3830501	11/13/1984 to 11/11/2013	26	1	Unconfined
4	3832903	3/18/1982 to 11/12/2013	31	0.97	Confined
4	3834104	9/15/1993	1	0.7	Unconfined, Under Layer 1
4	3841203	3/19/1982 to 11/1/2013	30	1	Unconfined
4	3841701	3/18/1982 to 11/14/1984	4	0.85	Unconfined
4	3842702	4/28/1981 to 11/19/1996	16	0.93	Confined
4	3849601	9/14/1993	1	0.5	Confined
4	3850101	3/18/1982 to 12/19/1990	9	1	Confined
4	3850102	11/15/1991 to 10/31/2013	20	1	Confined
4	3940303	3/10/1981 to 10/30/2013	33	1	Unconfined
4	3947605	9/14/1993	1	0.7	Unconfined
4	3947906	5/31/1995	1	0.7	Unconfined
4	3947907	5/31/1995	1	0.7	Unconfined
4	3955701	3/10/1981 to 10/29/2013	30	1	Unconfined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
4	3956703	9/5/2003	1	0.5	Confined
4	3956902	3/18/1982 to 11/7/1995	7	1	Confined
4	3963301	9/16/1993	1	0.5	Confined
4	3963302	3/10/1981 to 11/15/1991	10	1	Confined
4	3963303	11/18/1983 to 12/1/1986	2	1	Confined
4	3964703	3/10/1981 to 12/13/1984	5	1	Confined
4	5907202	3/18/1982 to 11/19/1982	2	1	Confined
6	1655901	8/1/1995 to 11/14/2012	16	1	Confined
6	1655904	2/27/1992	1	0.5	Confined
6	1656716	3/18/1981 to 11/13/2013	26	0.98	Confined
6	1659902	11/3/1982 to 10/13/1989	7	0.7	Confined
6	1661603	11/3/1982 to 10/13/1988	6	1	Confined
6	1663402	3/18/1981 to 11/14/2012	31	1	Confined
6	1663503	11/4/1981	1	0.5	Confined
6	1663803	3/18/1981 to 11/13/2013	28	0.99	Confined
6	1663905	9/19/2001	1	0.5	Confined
6	1664204	6/17/1980	1	0.5	Confined
6	3406608	4/5/1989	1	0.5	Unconfined
6	3406609	9/21/1988 to 8/15/1991	2	0.7	Unconfined
6	3407503	11/2/2010 to 11/12/2013	4	1	Unconfined
6	3408104	5/20/1998	1	0.7	Unconfined
6	3412803	3/12/1981 to 11/12/2013	33	1	Unconfined
6	3412902	3/12/1981 to 11/12/2013	32	1	Confined
6	3413309	4/27/2010 to 11/12/2013	5	1	Unconfined
6	3413501	4/5/1989	1	0.7	Confined
6	3413503	4/5/1989	1	0.7	Confined
6	3415106	9/29/1997	1	0.5	Confined
6	3415802	2/28/1989	1	0.5	Confined
6	3416704	9/1/1988	1	0.5	Confined
6	3420309	4/8/1994	1	0.5	Confined
6	3420310	4/14/1994	1	0.5	Confined
6	3420903	4/8/1999	1	0.5	Confined
6	3421405	3/7/2007	1	0.5	Confined
6	3421501	3/12/1981 to 11/12/2013	30	1	Confined
6	3421502	10/30/1980 to 4/7/1989	2	0.7	Confined
6	3421702	4/4/1989	1	0.5	Confined
6	3421703	11/27/1980 to 4/4/1989	2	1	Confined
6	3421704	11/4/1988	1	0.5	Confined
6	3423205	6/9/1987	1	0.5	Confined
6	3423303	2/27/1990 to 11/30/1998	2	1	Confined
6	3423409	2/14/1983	1	0.5	Confined
6	3428807	8/19/1982 to 4/14/1989	2	1	Confined
6	3428808	12/8/1982	1	0.7	Confined
6	3429604	8/22/1985 to 11/10/1988	2	0.7	Confined
6	3429605	4/16/1986 to 11/10/1988	3	0.63	Confined
6	3429704	8/25/1988	1	0.5	Confined
6	3429901	4/9/1987	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
6	3430205	8/31/1990 to 5/7/1991	2	0.7	Confined
6	3430907	1/31/1987 to 12/30/2013	1312	1	Confined
6	3430908	3/25/1987 to 4/5/2006	3	0.7	Confined
6	3431222	4/7/1989	1	0.5	Confined
6	3431505	7/27/1983	1	0.5	Confined
6	3431506	8/24/1989 to 11/13/2003	9	1	Confined
6	3431507	8/2/1989 to 9/18/1990	2	0.7	Confined
6	3432403	3/17/1981 to 11/16/1999	17	1	Confined
6	3434801	3/13/1981 to 11/26/2007	24	1	Confined
6	3435304	9/26/1980	1	0.7	Confined
6	3436204	6/18/2002	1	0.5	Confined
6	3436205	12/19/2002	1	0.5	Confined
6	3436703	3/20/1989	1	0.5	Confined
6	3436903	6/30/1980	1	0.7	Confined
6	3437203	11/9/1988	1	0.5	Confined
6	3437305	11/11/1981 to 11/29/2011	28	1	Confined
6	3438201	11/10/1988 to 11/12/2013	5	0.7	Confined
6	3438311	3/16/1981 to 6/14/1994	13	0.86	Confined
6	3438312	1/7/1985 to 11/10/1988	2	0.7	Confined
6	3438313	11/10/1988	1	0.5	Confined
6	3438404	6/14/1999	1	0.5	Confined
6	3438510	4/8/1987 to 11/11/1988	2	0.7	Confined
6	3438608	6/24/1999	1	0.5	Confined
6	3439102	6/19/1987	1	0.5	Confined
6	3439602	3/28/2002	1	0.5	Confined
6	3440102	3/16/1981 to 11/27/2001	16	1	Confined
6	3441305	9/18/1995 to 3/13/1996	2	1	Unconfined
6	3441309	3/13/1996	1	0.7	Unconfined
6	3442902	8/11/1986	1	0.5	Confined
6	3442903	9/18/2002	1	0.5	Confined
6	3444803	9/16/1999	1	0.5	Confined
6	3444908	12/3/1999 to 10/16/2002	2	0.7	Confined
6	3445103	11/17/1981	1	0.7	Confined
6	3445401	11/17/1981	1	0.7	Confined
6	3445507	3/14/2000	1	0.5	Confined
6	3445609	5/6/1988	1	0.5	Confined
6	3445803	3/16/1981 to 11/15/2012	24	0.68	Confined
6	3445804	3/16/1981	1	0.7	Confined
6	3446111	4/15/1987	1	0.5	Confined
6	3447103	11/10/1981 to 11/21/1996	12	1	Confined
6	3447704	8/1/1983 to 10/21/2013	24	0.96	Confined
6	3447707	12/29/1984	1	0.5	Confined
6	3448702	8/28/1985 to 4/18/1989	2	0.7	Confined
6	3448704	5/14/1994 to 5/20/1999	2	1	Confined
6	3448705	9/27/2004	1	0.5	Confined
6	3452609	10/20/1988	1	0.5	Confined
6	3452610	10/20/1991 to 10/16/2002	2	0.6	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
6	3453204	3/4/2003	1	0.7	Confined
6	3453205	3/20/1999	1	0.5	Confined
6	3453503	10/31/2004	1	0.5	Confined
6	3453604	9/26/1983 to 10/21/2013	26	1	Confined
6	3453606	6/2/1999	1	0.5	Confined
6	3453607	6/12/2004	1	0.5	Confined
6	3453804	12/6/1988	1	0.5	Confined
6	3454105	11/18/1998	1	0.5	Confined
6	3454503	11/11/1981 to 11/12/2013	21	0.99	Confined
6	3454504	5/20/1988	1	0.5	Confined
6	3454602	3/16/1981 to 11/15/2012	23	0.96	Confined
6	3454603	3/11/1987	1	0.5	Confined
6	3454802	7/20/1995 to 11/9/1999	6	1	Confined
6	3456703	11/11/1981 to 11/15/1984	3	1	Confined
6	3457301	3/18/1981 to 11/15/2013	33	1	Confined
6	3457806	10/11/1989	1	0.5	Confined
6	3460505	2/19/1988 to 11/15/2013	24	1	Confined
6	3460602	1/18/1991 to 11/13/2012	18	0.97	Confined
6	3460605	3/3/1983 to 10/16/1989	2	0.7	Confined
6	3460802	4/16/1987	1	0.5	Confined
6	3460904	6/6/1989 to 3/19/1996	2	0.6	Confined
6	3460905	10/16/1989	1	0.5	Confined
6	3460906	6/22/2004	1	0.5	Confined
6	3461902	3/17/1981 to 11/12/2013	27	0.96	Confined
6	3461906	8/28/1985	1	0.5	Confined
6	3462705	4/20/1983	1	0.5	Confined
6	3462706	2/5/1998	1	0.5	Confined
6	3463106	6/6/1988 to 2/14/1989	2	0.7	Confined
6	3463503	11/1/1982 to 11/6/2008	22	0.99	Confined
6	3464302	3/17/1981 to 11/12/2013	28	0.99	Unconfined
6	3464708	7/8/1985	1	0.5	Confined
6	3464711	5/25/1988	1	0.7	Confined
6	3464712	5/13/1988	1	0.7	Confined
6	3464713	5/16/1985 to 2/15/1989	2	1	Confined
6	3464714	7/1/1985 to 2/15/1989	2	0.7	Confined
6	3464805	5/15/1985 to 3/16/1988	2	1	Confined
6	3505101	4/16/1998	1	0.7	Confined
6	3503403	11/4/1982 to 11/11/1991	9	1	Confined
6	3505503	8/18/1999	1	0.5	Confined
6	3507303	3/15/2001	1	0.5	Confined
6	3508512	9/30/1981	1	0.5	Confined
6	3509202	3/17/1981 to 11/12/1990	7	0.96	Confined
6	3509403	11/10/1981 to 11/14/2013	24	1	Confined
6	3509805	6/30/1985 to 10/21/1987	2	0.7	Confined
6	3511202	3/18/1981 to 11/14/2013	33	1	Confined
6	3511404	8/4/1993	1	0.5	Confined
6	3511407	4/13/1989	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
6	3514101	9/11/2002	1	0.5	Confined
6	3514510	4/14/1998 to 9/12/2002	2	1	Unconfined, Under Layer 1
6	3517802	10/20/1987	1	0.5	Confined
6	3517903	5/8/2006	1	0.5	Confined
6	3518301	11/9/1981 to 11/6/1984	3	1	Confined
6	3518401	3/17/1981 to 11/14/2013	29	0.99	Confined
6	3518707	3/1/2002	1	0.5	Confined
6	3518805	10/23/1987	1	0.7	Confined
6	3525403	10/20/1987	1	0.5	Confined
6	3525602	11/10/1981 to 2/11/1988	6	0.7	Confined
6	3526204	10/14/1987	1	0.5	Confined
6	3527407	7/5/2000	1	0.5	Confined
6	3527408	5/9/2000	1	0.5	Confined
6	3533503	1/25/1987	1	0.5	Confined
6	3535501	3/17/1981 to 11/15/1995	15	1	Confined
6	3542505	2/18/2010 to 12/12/2013	15	1	Unconfined
6	3542506	8/1/2010 to 12/12/2013	14	1	Confined
6	3542508	9/1/2009 to 12/12/2013	16	1	Unconfined
6	3542509	5/1/2009 to 12/12/2013	18	1	Unconfined
6	3542704	9/1/2009 to 12/12/2013	16	1	Unconfined
6	3542801	11/12/1981 to 11/17/1994	11	1	Unconfined
6	3549406	7/29/2011 to 12/13/2013	10	1	Unconfined, Under Layer 1
6	3549608	9/1/2009 to 12/13/2013	15	1	Unconfined
6	3549609	2/10/2010 to 12/13/2013	15	1	Unconfined
6	3549610	2/10/2010 to 4/21/2011	6	0.7	Unconfined
6	3550407	9/1/2009 to 4/21/2011	6	0.7	Unconfined
6	3557205	7/14/1981	1	0.7	Unconfined
6	3557409	2/7/1981 to 3/8/1988	2	1	Unconfined, Under Layer 1
6	3557503	3/31/1981 to 7/14/1981	2	1	Unconfined
6	3557506	3/31/1981	1	0.7	Unconfined, Under Layer 1
6	3557508	7/14/1981	1	0.7	Unconfined
6	3701204	2/21/2012 to 12/19/2013	7	1	Confined
6	3701405	7/3/1985 to 3/15/1988	2	0.7	Confined
6	3701501	1/3/1980 to 11/17/1992	803	1	Confined
6	3702502	2/16/2010 to 12/19/2013	13	1	Confined
6	3705101	6/24/1986	1	0.7	Unconfined
6	3709104	11/9/1982 to 11/13/2013	28	0.99	Unconfined
6	3710402	3/26/1982 to 12/6/2005	24	0.98	Confined
6	3710408	12/25/2003	1	0.5	Confined
6	3710703	3/19/1982 to 11/19/2013	31	1	Confined
6	3711504	3/26/1982 to 12/6/1988	6	0.7	Unconfined
6	3717306	7/1/1988	1	0.5	Confined
6	3717307	1/20/1989	1	0.5	Confined
6	3717908	10/21/2008	1	0.5	Confined
6	3719301	3/26/1982 to 11/19/2013	22	0.99	Confined
6	3719401	5/10/1988	1	0.7	Confined
6	3719406	7/13/2004	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
6	3719803	3/31/1999 to 7/24/2003	2	0.6	Confined
6	3726201	3/19/1991	1	0.5	Confined
6	3726602	8/14/2000	1	0.5	Confined
6	3727304	5/18/1988 to 11/19/2013	3	0.63	Confined
6	3727504	5/18/1988	1	0.5	Confined
6	3727505	5/18/1988	1	0.5	Confined
6	3727506	3/26/1982 to 11/16/2011	27	0.99	Confined
6	3727508	9/14/1987	1	0.5	Confined
6	3727601	5/19/1988	1	0.5	Confined
6	3727605	11/7/2000	1	0.5	Confined
6	3727802	5/18/1988	1	0.5	Confined
6	3727808	3/27/2003	1	0.5	Confined
6	3728303	5/12/1988	1	0.5	Confined
6	3728401	2/7/1985	1	0.5	Confined
6	3728503	3/11/1985	1	0.5	Confined
6	3728505	3/18/2002 to 7/24/2003	2	0.7	Confined
6	3728604	9/5/2001	1	0.5	Confined
6	3728902	3/25/1982 to 11/19/2013	23	1	Confined
6	3729102	3/25/1982 to 12/3/2009	28	1	Confined
6	3729103	11/10/2010 to 11/19/2013	4	1	Confined
6	3729402	3/25/1982 to 11/19/2013	29	1	Confined
6	3729406	1/8/2003	1	0.5	Confined
6	3729505	11/19/1990	1	0.5	Confined
6	3730801	3/25/1982 to 11/19/2013	33	1	Confined
6	3732111	3/22/1982 to 11/20/2013	31	1	Unconfined
6	3732405	11/5/1984	1	0.7	Unconfined, Under Layer 1
6	3732709	11/18/1998 to 11/20/2013	17	0.95	Confined
6	3733202	3/9/1988 to 11/12/2013	24	0.99	Confined
6	3733205	1/29/1981	1	0.7	Confined
6	3733207	6/20/1996	1	0.5	Confined
6	3734103	5/10/1988	1	0.5	Confined
6	3734104	2/28/1998	1	0.7	Confined
6	3734405	8/5/2013	1	0.5	Confined
6	3734505	3/25/1982 to 11/15/2011	24	0.99	Confined
6	3734508	9/24/2003 to 4/19/2006	2	0.7	Confined
6	3734509	4/22/1991	1	0.5	Confined
6	3734603	3/26/1998 to 2/28/2013	18	1	Confined
6	3734604	12/31/2007 to 4/23/2011	12	0.7	Confined
6	3734605	12/31/2007 to 2/28/2013	14	0.7	Confined
6	3734806	9/16/1982 to 12/12/1988	3	1	Confined
6	3734807	10/9/2003	1	0.5	Confined
6	3734902	2/24/1982 to 2/28/2013	22	1	Confined
6	3735408	2/24/1982 to 2/28/2013	24	1	Confined
6	3735409	1/31/1980 to 2/28/2013	18	1	Confined
6	3735701	3/1/2006 to 2/28/2013	17	0.7	Confined
6	3735702	2/24/1982 to 2/28/2013	23	1	Confined
6	3735703	2/24/1982 to 2/28/2013	25	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
6	3735705	2/24/1982 to 2/24/1988	6	1	Confined
6	3735714	9/1/2006 to 2/28/2013	17	1	Confined
6	3735715	4/24/1980	1	0.7	Confined
6	3735716	6/15/1993 to 2/28/2013	18	0.7	Confined
6	3735903	12/13/1988	1	0.5	Confined
6	3735904	12/14/1988 to 3/5/2002	2	0.7	Confined
6	3736403	11/12/1982 to 11/8/1985	4	1	Confined
6	3736501	11/12/1982 to 11/14/1995	13	1	Confined
6	3736802	11/8/1984 to 10/10/1989	4	1	Confined
6	3737804	11/11/1982 to 11/18/1993	10	1	Confined
6	3742202	5/16/1988	1	0.7	Confined
6	3742304	3/6/2002	1	0.5	Confined
6	3743102	5/15/1988 to 12/12/1988	2	0.7	Confined
6	3744202	10/23/1999 to 11/1/2005	3	0.63	Confined
6	3801504	9/8/1981 to 3/12/2002	3	1	Confined
6	3803603	11/19/1986 to 9/15/1989	2	0.6	Confined
6	3803703	11/18/1981 to 2/23/1993	11	0.7	Confined
6	3804307	8/18/2011	1	0.5	Confined
6	3804805	11/18/1981	1	0.7	Confined
6	3805607	2/16/1989	1	0.7	Confined
6	3805608	9/22/1988	1	0.5	Confined
6	3805903	7/15/1984	1	0.5	Confined
6	3806408	11/8/1982 to 11/7/2001	18	0.98	Confined
6	3806503	5/17/1986	1	0.5	Confined
6	3806805	11/10/1987	1	0.5	Confined
6	3807203	11/20/1981 to 11/9/1995	13	1	Confined
6	3807703	4/26/1988	1	0.5	Confined
6	3808112	6/30/1983	1	0.7	Confined
6	3808113	8/3/1983	1	0.7	Confined
6	3808114	8/17/1983 to 3/16/1988	2	1	Confined
6	3808115	7/13/1985 to 3/16/1988	2	0.7	Confined
6	3808117	7/16/1985	1	0.5	Confined
6	3808118	7/10/1987	1	0.7	Confined
6	3808119	2/15/1989	1	0.7	Confined
6	3808120	10/25/1985 to 2/15/1989	2	0.85	Confined
6	3808206	8/11/1981	1	0.7	Confined
6	3808406	5/28/1985	1	0.5	Confined
6	3808806	1/6/1983 to 3/15/1988	2	1	Unconfined
6	3808807	5/31/1983 to 3/15/1988	2	1	Unconfined
6	3808808	6/2/1988	1	0.7	Unconfined
6	3812303	6/28/2003	1	0.5	Confined
6	3812502	3/20/1981 to 11/15/2012	26	0.95	Confined
6	3812703	3/11/2002	1	0.5	Confined
6	3812904	5/4/1989	1	0.5	Confined
6	3813106	11/17/1983 to 11/15/2012	27	0.99	Confined
6	3813107	1/26/1982 to 3/14/2002	3	0.9	Confined
6	3813305	6/6/2000	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
6	3814308	7/26/2000	1	0.5	Confined
6	3814509	3/18/1985 to 4/20/1988	2	0.6	Confined
6	3815105	11/1/1985	1	0.5	Confined
6	3815106	11/3/1982 to 4/26/1988	2	0.7	Confined
6	3815108	2/1/1988	1	0.5	Confined
6	3815203	2/27/1981	1	0.7	Confined
6	3815501	4/20/1988	1	0.7	Confined
6	3818703	11/4/1996 to 11/19/1998	3	1	Confined
6	3819404	3/20/1981 to 11/6/2001	17	1	Confined
6	3819603	9/13/1989	1	0.7	Confined
6	3819604	3/15/1995	1	0.5	Confined
6	3819605	3/15/1995	1	0.5	Confined
6	3819802	11/19/1981 to 11/14/2013	29	0.99	Confined
6	3820105	8/28/1982 to 3/20/1996	3	0.7	Confined
6	3820106	9/2/1999	1	0.5	Confined
6	3820503	12/15/1984 to 11/9/1989	2	0.7	Confined
6	3820804	8/8/1992	1	0.5	Confined
6	3823406	3/16/1981 to 11/12/2013	25	1	Confined
6	3824802	3/18/1982 to 10/16/1989	9	1	Confined
6	3824806	6/5/1986 to 11/12/2013	16	0.98	Confined
6	3826109	9/12/2000 to 11/18/2009	9	1	Confined
6	3826111	10/30/2013	1	0.5	Confined
6	3826401	12/20/1993 to 10/30/2013	8	0.96	Confined
6	3826706	3/10/1981 to 10/30/2013	29	1	Confined
6	3828701	3/15/1982 to 11/28/1989	8	0.7	Confined
6	3829701	10/14/1991	1	0.5	Confined
6	3829802	7/31/1980	1	0.7	Confined
6	3830502	5/31/1983	1	0.5	Confined
6	3834301	4/29/1981	1	0.7	Confined
6	3836702	9/22/2010	1	0.5	Confined
6	3837105	3/9/1981 to 2/10/1988	5	0.82	Confined
6	3838705	6/16/1980	1	0.7	Confined
6	3839503	8/31/1983	1	0.5	Confined
6	3841901	11/2/1989	1	0.5	Confined
6	3841902	8/21/2003	1	0.5	Confined
6	3843101	4/28/1981 to 10/30/2013	32	1	Confined
6	3844505	8/8/1983	1	0.5	Confined
6	3846502	11/27/1983	1	0.5	Confined
6	3849502	10/10/1989	1	0.5	Confined
6	3849802	3/18/1982 to 10/31/2013	32	1	Confined
6	3857701	3/10/1981 to 12/13/2006	16	0.91	Confined
6	3940601	4/28/1981 to 11/1/2013	33	1	Confined
6	3940702	6/11/1984	1	0.5	Confined
6	3946601	4/30/1981	1	0.7	Unconfined
6	3947905	2/3/1982	1	0.7	Confined
6	3948101	4/28/1981 to 1/31/1989	8	1	Confined
6	3948401	4/30/1981	1	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
6	3948701	5/3/1995 to 7/8/2002	2	0.7	Confined
6	3948702	5/3/1995	1	0.5	Confined
6	3954604	1/30/1981 to 10/29/2013	649	1	Confined
6	3955203	4/30/1981	1	0.7	Confined
6	3955302	3/10/1981 to 11/1/2013	26	1	Confined
6	3955804	5/1/1981	1	0.5	Confined
6	3955902	3/18/1982 to 10/29/2013	30	0.99	Confined
6	3956102	4/29/1981	1	0.7	Confined
6	3956301	11/18/1982 to 11/1/2013	25	1	Confined
6	3956802	9/5/1989	1	0.5	Confined
6	3964704	11/3/1986	1	0.5	Confined
6	3964705	6/30/1991 to 10/31/2013	20	0.93	Confined
6	6001101	9/17/1981	1	0.7	Confined
7	1639703	2/2/1981	1	0.5	Unconfined
7	1639704	5/28/1984	1	0.5	Unconfined
7	1640706	3/23/1993	1	0.7	Unconfined
7	1640708	7/22/1986	1	0.7	Unconfined
7	1640709	11/7/1990	1	0.7	Unconfined
7	1640714	9/12/1994	1	0.7	Unconfined
7	1646602	11/2/1982 to 11/15/2013	31	1	Unconfined
7	1646604	4/7/1998	1	0.7	Unconfined
7	1646901	10/31/1980	1	0.7	Unconfined
7	1647102	11/2/1982 to 11/7/1996	14	1	Unconfined, Under Layer 1
7	1648102	10/25/1985	1	0.7	Unconfined
7	1649212	3/11/1981 to 11/12/2012	24	0.99	Unconfined
7	1649213	5/18/2006	1	0.7	Unconfined
7	1650501	11/5/1982 to 11/9/1990	8	1	Unconfined
7	1653602	3/18/1981 to 11/13/2013	29	1	Unconfined
7	1654602	6/16/2003	1	0.5	Confined
7	1654603	6/2/2003	1	0.5	Confined
7	1654604	4/29/2003	1	0.5	Confined
7	1654605	5/15/2003	1	0.5	Confined
7	1654606	1/31/1986	1	0.5	Confined
7	1655307	8/1/2002	1	0.5	Confined
7	1657407	10/25/1982 to 10/11/1988	6	1	Confined
7	1659710	3/10/1981 to 11/16/2011	30	0.99	Confined
7	1661201	6/25/1999	1	0.5	Confined
7	1661301	9/28/1984	1	0.5	Confined
7	1662403	5/19/2004	1	0.5	Confined
7	1662602	1/22/1991	1	0.5	Confined
7	1663902	3/18/1981 to 10/13/1988	7	1	Confined
7	3406102	6/10/1998	1	0.7	Confined
7	3406304	3/11/1981 to 12/10/1986	5	0.94	Confined
7	3406607	10/21/1988	1	0.5	Confined
7	3407802	8/16/1986	1	0.5	Confined
7	3408501	3/17/1981 to 11/11/1983	3	0.9	Confined
7	3412905	5/4/2005	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3413203	10/7/1984	1	0.5	Confined
7	3413507	4/5/1989	1	0.7	Confined
7	3413809	4/10/1989	1	0.5	Confined
7	3414603	5/9/1991	1	0.5	Confined
7	3416703	5/15/1985 to 4/12/1989	2	0.7	Confined
7	3416901	3/21/1980	1	0.7	Confined
7	3419423	6/18/1988 to 2/20/1989	2	1	Unconfined
7	3420306	6/27/1980	1	0.7	Confined
7	3420307	5/23/1991	1	0.5	Confined
7	3420308	5/26/1999	1	0.7	Confined
7	3420608	5/30/1986	1	0.5	Confined
7	3420707	3/12/1981 to 11/13/2013	29	1	Unconfined, Under Layer 1
7	3421302	3/16/1982 to 11/12/2013	30	1	Confined
7	3421403	2/23/1987 to 5/7/1991	2	0.6	Confined
7	3421701	3/16/1982 to 11/8/1984	4	1	Confined
7	3421804	8/1/1989 to 5/9/1991	2	0.7	Confined
7	3421805	2/28/1995 to 8/25/1999	2	1	Confined
7	3422205	6/1/1983 to 5/7/1991	2	0.7	Confined
7	3423302	7/20/1985	1	0.5	Confined
7	3423410	8/15/1991 to 11/13/2012	3	0.7	Confined
7	3423705	5/7/1991	1	0.7	Confined
7	3424401	11/30/1998	1	0.7	Confined
7	3424402	11/27/1981 to 10/20/1987	2	1	Confined
7	3424703	2/14/1983 to 10/20/1987	2	0.7	Confined
7	3426606	3/15/1989	1	0.5	Unconfined
7	3426904	9/11/1985 to 3/15/1989	2	1	Unconfined
7	3427905	3/16/1989	1	0.7	Unconfined
7	3428408	11/12/1981 to 11/13/2013	30	1	Unconfined
7	3428801	3/16/1981 to 11/14/1991	11	1	Confined
7	3429403	10/23/1986 to 11/9/1988	2	0.7	Confined
7	3429902	4/9/1987 to 11/12/2013	26	0.99	Confined
7	3429905	10/23/1996	1	0.5	Confined
7	3431221	4/7/1989	1	0.7	Confined
7	3431902	11/4/2010 to 11/12/2013	3	0.7	Confined
7	3434101	11/12/1981 to 11/13/2013	28	1	Unconfined
7	3434906	7/30/1980 to 3/16/1989	2	1	Confined
7	3434907	11/14/1988 to 3/20/1989	2	0.7	Confined
7	3435305	9/25/1980	1	0.7	Confined
7	3435501	11/12/1981 to 11/29/1989	8	1	Confined
7	3436306	1/23/1986 to 11/7/1988	3	0.63	Confined
7	3437104	11/20/1984 to 11/9/1988	2	0.7	Confined
7	3437105	8/18/1980 to 4/17/1989	2	1	Confined
7	3437202	11/9/1988	1	0.5	Confined
7	3437304	1/9/1999 to 5/26/1999	2	1	Confined
7	3437307	4/9/1987 to 11/10/1988	2	0.5	Confined
7	3437308	11/9/1988	1	0.5	Confined
7	3437309	12/7/1981 to 11/10/1988	2	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3437310	4/16/1987 to 11/14/1988	2	0.7	Confined
7	3437311	6/30/1989 to 12/15/1999	12	0.98	Confined
7	3437405	11/11/1988	1	0.5	Confined
7	3437406	11/11/1988	1	0.7	Confined
7	3437407	7/12/1982 to 11/11/1988	2	1	Confined
7	3437901	4/7/1987 to 11/14/1988	2	0.7	Confined
7	3437902	3/31/1985 to 11/9/1988	3	0.63	Confined
7	3438403	4/18/1989	1	0.5	Confined
7	3438405	10/6/2004	1	0.5	Confined
7	3438805	11/11/1981 to 6/17/2010	27	1	Confined
7	3438913	11/15/1988	1	0.5	Confined
7	3438914	2/3/1987 to 9/9/1993	3	0.7	Confined
7	3439506	12/31/2005	1	0.5	Confined
7	3439507	6/27/2006	1	0.5	Confined
7	3439901	4/1/1998	1	0.7	Confined
7	3440203	12/20/1997	1	0.7	Confined
7	3440503	12/6/2005	1	0.5	Confined
7	3440504	12/10/2005	1	0.5	Confined
7	3440709	12/14/1988	1	0.5	Confined
7	3440710	1/27/1984	1	0.5	Confined
7	3441304	7/26/1995 to 11/9/1998	19	0.62	Confined
7	3441306	9/18/1995 to 3/13/1996	2	0.7	Unconfined
7	3441307	3/13/1996	1	0.7	Unconfined
7	3441308	3/13/1996	1	0.5	Unconfined
7	3441316	5/5/2009 to 5/31/2011	3	0.7	Confined
7	3442108	3/13/1981 to 11/13/2013	34	1	Unconfined
7	3443603	11/17/1981 to 11/15/2013	29	0.98	Confined
7	3444104	10/13/1981	1	0.7	Confined
7	3444105	10/21/1981	1	0.7	Confined
7	3444707	5/7/1991	1	0.5	Confined
7	3445206	10/8/1998	1	0.5	Confined
7	3445304	1/23/1996	1	0.5	Confined
7	3446113	11/8/1988 to 10/21/2013	24	1	Confined
7	3446511	12/14/1987 to 6/17/2010	22	0.99	Confined
7	3446512	2/14/1982	1	0.7	Confined
7	3446809	12/9/1982 to 5/20/1986	2	1	Confined
7	3446812	4/11/1996	1	0.5	Confined
7	3447205	3/19/1998	1	0.7	Confined
7	3447302	7/15/1988 to 11/16/1988	2	0.7	Confined
7	3447305	10/15/1998	1	0.7	Confined
7	3447902	12/14/2001 to 5/7/2002	3	0.7	Confined
7	3448204	1/21/1987 to 11/15/2012	24	0.99	Confined
7	3448303	4/10/1986 to 2/9/1987	2	0.7	Confined
7	3448304	7/15/2011 to 11/15/2012	4	0.7	Confined
7	3448501	3/25/1998	1	0.7	Confined
7	3448503	3/18/1986 to 11/15/2000	11	1	Confined
7	3448604	3/12/1987 to 12/8/2010	20	0.99	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3448802	11/10/1981 to 11/13/1995	8	1	Confined
7	3448804	9/24/1982	1	0.7	Confined
7	3448805	3/23/1981 to 8/17/1989	2	1	Confined
7	3450307	12/28/1998 to 8/27/1999	2	0.7	Confined
7	3451107	9/5/1983 to 4/10/1987	2	0.7	Confined
7	3452313	1/7/2002	1	0.5	Confined
7	3452504	3/18/1981 to 11/17/1981	2	1	Confined
7	3452608	6/5/1987	1	0.7	Confined
7	3453608	8/30/2004	1	0.5	Confined
7	3454207	11/8/1988	1	0.5	Confined
7	3454306	9/16/1985	1	0.5	Confined
7	3454307	5/9/2002	1	0.5	Confined
7	3454505	7/9/2007	1	0.5	Confined
7	3454604	4/6/1989	1	0.5	Confined
7	3454705	12/27/2006	1	0.5	Confined
7	3455303	4/10/1987 to 11/8/2007	20	1	Confined
7	3455304	3/16/1984 to 8/17/1989	2	0.6	Confined
7	3455408	8/29/1990	1	0.5	Confined
7	3455410	7/15/2008	1	0.5	Confined
7	3455411	5/28/2008	1	0.5	Confined
7	3455914	8/8/1984	1	0.5	Confined
7	3457309	12/1/2011	1	0.5	Confined
7	3457801	10/11/1989	1	0.5	Unconfined
7	3457804	10/11/1989	1	0.5	Confined
7	3457805	10/11/1989	1	0.5	Confined
7	3459302	3/19/1981 to 11/5/1986	4	0.93	Confined
7	3459306	8/16/1988 to 11/8/1989	2	0.7	Confined
7	3461108	10/16/1989	1	0.5	Confined
7	3461203	5/28/1998	1	0.7	Confined
7	3461205	5/30/2009	1	0.5	Confined
7	3461307	11/3/1993 to 10/21/2013	20	1	Confined
7	3461501	3/19/1981 to 11/13/2013	32	0.98	Confined
7	3462203	10/19/1981 to 3/10/1987	2	1	Confined
7	3463501	11/1/1982 to 12/3/2011	27	0.99	Confined
7	3464402	11/13/1981 to 11/9/1985	4	0.85	Confined
7	3464507	4/13/2004	1	0.5	Confined
7	3501102	10/25/1982 to 12/9/1986	4	1	Confined
7	3501116	11/18/1981	1	0.7	Confined
7	3501502	5/13/1992	1	0.5	Confined
7	3501803	3/17/1981 to 11/12/2008	22	1	Confined
7	3501902	3/30/1992	1	0.5	Confined
7	3507902	3/18/1981 to 11/8/1996	14	1	Confined
7	3510303	5/21/1987	1	0.5	Confined
7	3510401	9/17/1992	1	0.5	Confined
7	3511402	3/17/1981 to 11/14/2013	31	1	Confined
7	3512505	6/5/1981	1	0.5	Confined
7	3517103	11/7/1984 to 11/6/1997	9	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3517209	10/21/1987	1	0.5	Confined
7	3517304	3/14/1985	1	0.5	Confined
7	3517402	4/30/1986	1	0.5	Confined
7	3517403	10/20/1987	1	0.5	Confined
7	3517404	10/20/1987 to 12/31/1998	2	1	Confined
7	3517405	3/22/1987 to 11/14/2012	19	0.94	Confined
7	3517501	11/9/1981 to 12/5/1985	4	1	Confined
7	3517505	10/22/1987	1	0.7	Confined
7	3517704	11/25/1987 to 4/12/1989	2	0.7	Confined
7	3517803	5/10/1985 to 10/20/1987	2	0.7	Confined
7	3517804	12/18/1998 to 11/18/2009	11	0.95	Confined
7	3517806	7/25/2003	1	0.5	Confined
7	3518303	9/30/1996 to 11/14/2013	19	0.98	Confined
7	3518602	6/21/1980 to 10/23/1987	2	1	Confined
7	3518806	6/16/1983	1	0.5	Confined
7	3518901	12/6/2000	1	0.5	Confined
7	3518903	7/9/2002	1	0.5	Confined
7	3519202	8/16/1986 to 10/23/1987	2	0.6	Confined
7	3520504	2/9/1988	1	0.5	Confined
7	3520802	8/19/1987	1	0.5	Confined
7	3520803	12/15/1988	1	0.5	Confined
7	3520804	3/23/1995	1	0.5	Confined
7	3520805	11/21/1994	1	0.5	Confined
7	3522401	3/18/1981 to 11/14/2013	25	1	Unconfined
7	3525202	5/3/1985 to 8/14/1997	2	1	Confined
7	3526706	3/16/1981 to 11/12/2012	29	1	Confined
7	3527401	11/10/1981 to 11/17/1986	4	1	Confined
7	3528202	11/15/1982	1	0.7	Confined
7	3528804	3/17/2010	1	0.5	Confined
7	3533402	11/16/1988	1	0.5	Confined
7	3533504	10/21/1987	1	0.5	Confined
7	3533603	2/17/1984	1	0.5	Confined
7	3534102	10/15/1987 to 11/20/1996	8	1	Confined
7	3535402	3/17/1981 to 12/2/2010	29	1	Confined
7	3535701	10/20/1987	1	0.5	Confined
7	3536104	8/27/1984	1	0.5	Confined
7	3536105	7/29/1992	1	0.5	Confined
7	3536601	10/30/1984	1	0.7	Confined
7	3541102	7/16/1981	1	0.7	Confined
7	3541402	2/1/2006 to 4/5/2010	50	0.7	Confined
7	3541501	11/12/1981 to 11/18/1983	3	1	Confined
7	3541601	11/12/1981 to 11/13/2013	32	1	Confined
7	3541602	7/16/1981	1	0.7	Confined
7	3541701	3/16/1981 to 11/5/1985	5	1	Confined
7	3541905	3/3/1988	1	0.5	Confined
7	3542207	10/1/2010 to 12/12/2013	12	1	Confined
7	3542406	2/15/2010 to 9/10/2012	10	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3542502	12/16/1987	1	0.7	Unconfined, Under Layer 1
7	3542504	5/1/2009 to 7/1/2010	4	0.7	Unconfined, Under Layer 1
7	3542703	11/8/1987 to 3/12/1988	2	0.7	Confined
7	3542802	12/12/1987 to 12/12/2013	13	1	Unconfined, Under Layer 1
7	3542804	9/1/2010 to 12/12/2013	14	1	Unconfined, Under Layer 1
7	3542805	5/1/2009 to 12/20/2013	19	1	Unconfined, Under Layer 1
7	3543303	7/4/1984	1	0.5	Confined
7	3543402	2/19/2010 to 12/17/2013	16	1	Unconfined, Under Layer 1
7	3543501	3/3/1981 to 11/13/2013	30	1	Confined
7	3543601	3/3/1981 to 10/26/2011	27	1	Unconfined
7	3543702	4/23/1981	1	0.7	Confined
7	3543903	8/3/1983 to 3/15/1988	2	1	Unconfined
7	3545705	9/14/1984	1	0.7	Unconfined
7	3549104	7/28/2011 to 6/14/2012	4	1	Confined
7	3549210	9/12/2005	1	0.5	Confined
7	3549306	3/23/2012 to 12/20/2013	8	1	Confined
7	3549407	12/1/2010 to 3/23/2012	6	1	Confined
7	3549606	5/19/1988 to 11/15/1988	2	0.7	Confined
7	3549801	11/12/1981 to 11/14/2013	32	1	Confined
7	3549808	7/15/1981	1	0.7	Unconfined, Under Layer 1
7	3550202	4/21/1981	1	0.7	Unconfined, Under Layer 1
7	3550302	11/12/1981 to 11/12/1990	8	1	Confined
7	3550405	5/1/2009 to 9/1/2009	2	0.7	Confined
7	3550406	9/1/2009 to 12/13/2013	16	1	Confined
7	3550501	11/12/1981 to 11/14/2013	32	1	Unconfined, Under Layer 1
7	3550502	3/17/1981	1	0.7	Unconfined, Under Layer 1
7	3550505	10/10/1988	1	0.7	Unconfined, Under Layer 1
7	3550506	9/19/1988 to 12/8/1988	2	1	Unconfined, Under Layer 1
7	3550507	9/1/2010 to 3/23/2012	7	1	Unconfined, Under Layer 1
7	3550508	2/19/2010 to 12/13/2013	15	1	Unconfined, Under Layer 1
7	3550603	7/31/1986 to 4/12/1988	2	1	Unconfined
7	3550605	5/1/2009 to 12/20/2013	19	1	Unconfined
7	3550706	5/1/2009 to 12/20/2013	18	1	Unconfined
7	3550909	5/17/1981	1	0.7	Unconfined
7	3551301	4/11/1988	1	0.7	Unconfined
7	3551503	4/1/1981	1	0.7	Unconfined
7	3551703	9/1/2009 to 3/25/2010	2	1	Unconfined
7	3551705	9/1/2009 to 3/25/2010	2	1	Unconfined
7	3552401	3/20/1981	1	0.7	Unconfined
7	3553103	9/11/1983	1	0.7	Unconfined
7	3557206	7/14/1981	1	0.7	Confined
7	3557207	7/14/1981	1	0.7	Confined
7	3557404	7/14/1981	1	0.7	Unconfined, Under Layer 1
7	3557405	7/14/1981	1	0.7	Unconfined, Under Layer 1
7	3557407	3/31/1981	1	0.7	Unconfined, Under Layer 1
7	3557505	3/31/1981	1	0.7	Confined
7	3557509	7/14/1981	1	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3557510	7/14/1981	1	0.7	Confined
7	3557702	7/14/1981	1	0.7	Confined
7	3557703	7/14/1981	1	0.7	Confined
7	3557704	7/14/1981	1	0.7	Confined
7	3557804	11/15/1988	1	0.5	Confined
7	3558101	3/17/1981 to 11/14/2013	31	1	Unconfined
7	3558104	3/16/1996	1	0.7	Unconfined
7	3558106	5/1/2009 to 12/19/2013	17	1	Unconfined
7	3558107	5/1/2009 to 3/26/2012	9	1	Unconfined
7	3558203	5/1/2009 to 12/19/2013	15	1	Unconfined
7	3558204	2/22/2010 to 6/20/2012	9	1	Unconfined, Under Layer 1
7	3558401	11/20/1981 to 11/16/1995	11	1	Confined
7	3558403	3/18/1981	1	0.7	Confined
7	3558503	5/1/2009 to 12/18/2013	17	1	Unconfined
7	3558602	5/1/2009 to 12/18/2013	17	1	Unconfined
7	3559105	9/1/2009 to 3/22/2010	2	1	Unconfined
7	3559109	9/1/2009 to 6/15/2012	10	1	Unconfined
7	3559205	9/1/2009 to 12/18/2013	16	1	Unconfined
7	3559403	11/14/1987 to 4/8/1988	2	1	Unconfined
7	3559503	8/1/2009 to 12/18/2013	16	1	Unconfined
7	3559705	5/1/2009 to 12/18/2013	16	1	Unconfined
7	3559706	9/1/2009 to 12/21/2012	9	1	Unconfined
7	3559801	11/18/1983 to 11/16/1995	8	1	Unconfined
7	3559806	12/1/2010 to 12/18/2013	13	1	Unconfined
7	3559905	10/2/2006 to 4/5/2010	43	1	Unconfined, Under Layer 1
7	3560102	3/20/1981	1	0.7	Unconfined, Under Layer 1
7	3617502	11/18/1981 to 11/5/2003	23	1	Unconfined
7	3617802	11/18/1981 to 11/8/2006	24	1	Unconfined
7	3625504	3/23/1982 to 11/20/2013	31	1	Unconfined
7	3626101	7/2/1986 to 11/4/2004	16	0.96	Unconfined
7	3634303	3/23/1982 to 11/20/2013	28	1	Unconfined
7	3701104	9/1/2006 to 4/5/2010	44	0.7	Confined
7	3702201	7/14/1981	1	0.7	Confined
7	3702205	4/24/1981	1	0.7	Confined
7	3702301	11/19/1981 to 11/13/2013	28	0.99	Unconfined
7	3702802	11/19/1981 to 11/13/2013	31	1	Confined
7	3702906	5/1/2009 to 12/19/2013	19	1	Unconfined
7	3703502	4/3/1981 to 11/18/1992	8	1	Confined
7	3703602	4/13/1987	1	0.5	Confined
7	3704301	11/17/1981 to 12/10/2013	29	0.99	Unconfined
7	3704302	1/16/1986 to 6/18/1986	2	1	Unconfined
7	3704601	11/19/1981 to 11/13/2013	30	0.98	Confined
7	3704802	10/2/2006 to 4/5/2010	40	1	Confined
7	3705201	11/17/1981 to 12/10/2013	30	1	Unconfined
7	3705202	11/21/1985 to 6/23/1986	2	1	Unconfined
7	3705701	11/19/1981 to 11/19/2013	32	0.99	Unconfined
7	3705702	3/5/1982	1	0.7	Unconfined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3705703	8/2/1984 to 11/19/2013	26	0.99	Unconfined
7	3706101	3/21/1984 to 11/21/2013	26	1	Unconfined
7	3706401	11/18/1981 to 11/7/2012	29	1	Unconfined, Under Layer 1
7	3706701	8/24/1984	1	0.7	Unconfined
7	3709105	3/15/1988	1	0.5	Confined
7	3710403	3/26/1982 to 12/6/2005	19	1	Confined
7	3710407	5/1/1999	1	0.5	Confined
7	3711204	4/11/2006 to 4/5/2010	47	1	Unconfined
7	3712303	4/20/1981	1	0.7	Unconfined
7	3712903	5/17/1988	1	0.7	Unconfined
7	3713105	5/1/2009 to 12/18/2013	19	1	Unconfined
7	3713106	5/1/2009 to 11/28/2011	8	1	Unconfined, Under Layer 1
7	3713302	6/26/1986 to 11/21/2013	27	1	Unconfined
7	3713403	3/25/1982 to 11/19/2013	31	1	Unconfined
7	3713404	5/11/1988	1	0.7	Unconfined
7	3713407	3/16/1981	1	0.7	Unconfined
7	3713408	4/30/1998 to 7/22/2003	2	1	Unconfined
7	3714501	11/18/1981 to 11/21/2013	33	1	Unconfined, Under Layer 1
7	3714701	11/19/1981 to 11/21/2013	32	0.99	Unconfined, Under Layer 1
7	3714703	3/11/1983	1	0.7	Unconfined, Under Layer 1
7	3714803	3/22/1985	1	0.7	Unconfined
7	3714901	5/31/1985 to 11/20/1996	12	1	Unconfined
7	3715401	11/17/1981 to 11/21/2013	32	1	Unconfined
7	3717909	10/21/2008	1	0.5	Confined
7	3720105	9/22/1988 to 12/7/1988	2	0.7	Confined
7	3720404	4/5/2002 to 7/23/2003	2	0.6	Confined
7	3720501	5/12/1988	1	0.5	Confined
7	3720902	3/25/1982 to 11/11/1999	13	0.98	Confined
7	3720904	4/17/1985 to 5/12/1988	2	0.7	Confined
7	3720905	3/10/1997 to 7/23/2003	2	0.6	Confined
7	3720906	4/21/2000 to 7/23/2003	2	0.6	Confined
7	3721204	3/25/1982 to 11/19/2013	28	0.98	Unconfined, Under Layer 1
7	3721701	3/25/1982 to 11/19/2013	30	1	Confined
7	3722501	7/10/1981	1	0.7	Unconfined
7	3723603	6/10/1984	1	0.7	Unconfined
7	3723803	4/20/1981	1	0.7	Unconfined
7	3724601	11/18/1981 to 11/20/2013	32	1	Unconfined
7	3727201	11/6/1985 to 11/19/2013	25	0.99	Confined
7	3727301	3/26/1982 to 1/7/1999	19	0.97	Confined
7	3728304	5/12/1988	1	0.5	Confined
7	3730802	3/23/1982 to 11/10/2006	25	1	Confined
7	3732301	11/18/1981 to 11/20/2013	33	1	Unconfined
7	3732302	3/31/1980	1	0.7	Unconfined
7	3732603	3/23/1982 to 12/3/1986	5	1	Unconfined
7	3736102	11/11/1982 to 11/12/1992	7	1	Confined
7	3801807	3/18/1996	1	0.5	Confined
7	3801808	7/5/1989	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3801905	9/12/1989 to 3/18/1996	2	0.7	Confined
7	3802304	12/21/1984 to 10/13/1989	2	0.7	Confined
7	3802402	11/18/1981 to 11/14/2013	30	0.98	Confined
7	3804202	7/10/1995	1	0.5	Confined
7	3806603	11/9/1982 to 11/13/2013	21	0.94	Confined
7	3807305	11/20/1981 to 2/2/1995	15	1	Confined
7	3807409	7/15/1985	1	0.7	Confined
7	3807705	2/1/1988	1	0.5	Confined
7	3807902	3/17/1982 to 11/9/2000	11	0.97	Confined
7	3807907	8/23/2007	1	0.5	Confined
7	3808105	11/20/1981 to 11/13/2013	30	0.93	Confined
7	3808108	5/31/1988	1	0.5	Confined
7	3808208	3/2/1990 to 6/18/1990	2	0.7	Confined
7	3808209	1/31/2007	1	0.5	Confined
7	3808903	12/4/1987	1	0.5	Confined
7	3809701	4/22/1981	1	0.7	Confined
7	3810302	2/13/1989 to 11/15/1989	2	0.7	Confined
7	3810303	2/8/1989 to 11/15/1989	2	0.7	Confined
7	3811606	10/14/1989	1	0.5	Confined
7	3813805	3/20/1981 to 2/6/2008	25	1	Confined
7	3814205	6/17/1980 to 2/16/1989	2	1	Confined
7	3815505	9/1/1994	1	0.5	Confined
7	3815607	3/18/1982 to 11/13/2013	24	0.91	Confined
7	3815804	2/17/1989	1	0.7	Confined
7	3816803	11/9/1982 to 11/12/2013	30	1	Confined
7	3819405	10/10/1986	1	0.7	Confined
7	3820203	11/18/1981 to 10/19/1989	6	0.8	Confined
7	3820801	3/20/1981	1	0.7	Confined
7	3820803	1/10/1990	1	0.5	Confined
7	3825105	4/5/1985	1	0.5	Confined
7	3825707	7/17/1984	1	0.5	Confined
7	3833403	4/7/1980	1	0.7	Confined
7	3833504	3/19/1982 to 11/17/1983	2	1	Confined
7	3833505	8/17/1984	1	0.5	Confined
7	3841706	6/28/1986	1	0.5	Confined
7	3841707	5/31/1994	1	0.5	Confined
7	3841708	11/18/2003	1	0.5	Confined
7	3916802	9/28/2011 to 10/30/2013	3	1	Unconfined, Under Layer 1
7	3924603	4/5/1994	1	0.5	Unconfined
7	3924801	8/22/1981	1	0.7	Unconfined
7	3924907	4/22/1981 to 11/18/1998	10	1	Confined
7	3931305	4/7/1994	1	0.7	Unconfined
7	3931411	2/1/1983	1	0.7	Unconfined
7	3931803	4/23/1981	1	0.7	Unconfined
7	3932205	4/23/1981 to 10/30/2013	32	1	Unconfined
7	3938503	2/7/1981	1	0.7	Unconfined
7	3938601	4/24/1981 to 10/2/1981	2	1	Unconfined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
7	3938801	4/2/1980 to 3/9/1982	3	1	Unconfined
7	3938804	3/25/1983	1	0.7	Unconfined, Under Layer 1
7	3938805	7/3/2003	1	0.7	Unconfined, Under Layer 1
7	3938902	3/11/1980 to 10/29/2013	35	0.99	Unconfined
7	3938903	10/20/1981	1	0.7	Unconfined
7	3939301	4/20/1981 to 4/16/1984	3	0.9	Confined
7	3939405	4/29/1981	1	0.7	Unconfined
7	3939703	4/29/1981	1	0.7	Confined
7	3939903	2/2/1984	1	0.5	Confined
7	3940205	3/17/1980	1	0.7	Confined
7	3940304	4/28/1981 to 11/17/1983	4	1	Confined
7	3940401	4/29/1981	1	0.7	Confined
7	3940604	12/1/1992 to 7/8/1997	2	0.7	Confined
7	3940605	4/29/1995	1	0.5	Confined
7	3940906	4/28/1981 to 11/1/2013	32	1	Confined
7	3946105	10/20/1981	1	0.7	Unconfined
7	3946301	4/30/1981	1	0.7	Unconfined
7	3946405	4/28/1981 to 12/18/2013	6	1	Unconfined
7	3946702	4/23/1980 to 12/17/2013	46	0.99	Unconfined, Under Layer 1
7	3946901	4/28/1981 to 12/15/1994	11	1	Confined
7	3946902	4/28/1981 to 11/8/2004	23	1	Confined
7	3947102	4/30/1981	1	0.7	Confined
7	3947304	9/27/1983	1	0.5	Confined
7	3947403	7/9/1984	1	0.5	Confined
7	3947503	4/21/2004	1	0.5	Confined
7	3947602	4/28/1981 to 12/2/1986	4	0.93	Confined
7	3954305	5/22/1981	1	0.7	Confined
7	3954306	10/2/1991	1	0.5	Confined
7	3954405	7/23/1980 to 11/7/1985	6	0.9	Confined
7	3954602	7/20/1995 to 10/23/2012	17	1	Confined
7	3954803	7/24/1980 to 4/28/1981	2	1	Confined
7	3955204	4/21/2004	1	0.5	Confined
7	312725093325301	1/30/1980 to 10/21/2013	93	1	Confined
7	313748093451001	9/11/1980 to 10/24/2013	56	1	Unconfined
7	3525604_49678	7/25/2006	1	0.5	Confined
8	1645603	3/10/1981 to 11/15/2013	30	0.98	Confined
8	1646603	11/3/1982	1	0.7	Confined
8	1647302	3/10/1981 to 10/14/1988	7	1	Confined
8	1649703	11/5/1982 to 11/9/1990	9	1	Confined
8	1650402	3/10/1981 to 11/12/2013	31	0.99	Confined
8	1650607	11/4/1982 to 11/16/2011	26	1	Confined
8	1651410	5/27/1982	1	0.7	Confined
8	1651704	11/4/1982 to 11/7/1995	12	0.95	Confined
8	1652301	11/7/1996 to 11/11/1999	2	1	Confined
8	1653107	3/18/1981 to 11/10/1983	3	1	Confined
8	1653402	9/26/2004	1	0.5	Confined
8	1655102	4/18/1994	1	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	1655305	7/10/1981	1	0.5	Confined
8	1657309	4/29/1985 to 6/9/1998	2	0.7	Confined
8	1657804	8/31/1981	1	0.7	Confined
8	1657901	3/17/1981 to 5/20/1998	18	1	Confined
8	1657905	1/15/1992	1	0.5	Confined
8	1658811	2/15/1992	1	0.5	Confined
8	1660202	11/3/1982	1	0.7	Confined
8	1661202	10/25/2003	1	0.5	Confined
8	1661901	11/7/1996 to 11/16/2011	15	0.98	Confined
8	1662704	10/10/1982	1	0.5	Confined
8	1662705	10/25/2005	1	0.5	Confined
8	1663804	4/27/2001	1	0.5	Confined
8	1663805	6/27/2001	1	0.5	Confined
8	1756304	11/5/1982 to 11/11/2013	30	1	Unconfined
8	1761301	3/11/1981 to 11/14/2013	34	0.99	Unconfined
8	1762701	5/31/1984	1	0.5	Confined
8	1763401	8/30/1983	1	0.5	Confined
8	1763806	3/11/1981 to 11/12/2013	31	0.98	Confined
8	1763905	6/7/1982	1	0.5	Confined
8	1764412	8/14/1986	1	0.5	Confined
8	1764701	10/25/1982 to 11/17/1998	17	1	Confined
8	1764703	8/3/1980	1	0.7	Confined
8	1764706	2/28/1998	1	0.5	Confined
8	1764807	2/10/1995	1	0.5	Confined
8	1764808	5/21/1986	1	0.5	Confined
8	3404202	8/1/2001	1	0.5	Unconfined, Under Layer 1
8	3404803	4/10/2000	1	0.5	Confined
8	3405101	3/11/1981 to 11/4/1997	15	1	Confined
8	3405510	11/2/2001	1	0.5	Confined
8	3406310	10/26/1982	1	0.7	Confined
8	3406506	11/3/1988	1	0.5	Confined
8	3406807	4/13/1987	1	0.5	Confined
8	3407309	5/22/2002	1	0.7	Confined
8	3407803	7/14/2004	1	0.5	Confined
8	3408105	10/25/1982 to 11/12/2013	32	1	Confined
8	3408302	4/28/2008	1	0.5	Confined
8	3408904	3/17/1981 to 12/9/1986	5	0.88	Confined
8	3408906	11/10/1988 to 4/11/1989	2	0.6	Confined
8	3411908	2/29/1996	1	0.5	Confined
8	3411909	11/6/1996	1	0.5	Confined
8	3412407	10/8/1985	1	0.5	Confined
8	3412705	10/27/1981	1	0.7	Confined
8	3412906	4/20/2005	1	0.5	Confined
8	3413308	4/27/2010 to 11/14/2012	4	0.7	Confined
8	3413601	3/16/1982 to 11/3/2004	18	1	Confined
8	3414407	9/13/1988	1	0.5	Confined
8	3416203	7/9/1988	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3416204	1/20/1980	1	0.7	Confined
8	3419804	11/13/1981 to 10/7/1993	10	0.97	Confined
8	3419805	1/23/1985 to 3/15/1989	2	0.7	Confined
8	3420202	4/6/1989	1	0.7	Confined
8	3420206	4/6/1989	1	0.7	Confined
8	3420207	6/24/1988	1	0.5	Confined
8	3420607	5/28/1987	1	0.5	Confined
8	3420803	11/7/1988	1	0.7	Confined
8	3422204	5/7/1991	1	0.7	Confined
8	3422306	10/23/1996	1	0.5	Confined
8	3422502	2/21/2001	1	0.5	Confined
8	3423204	4/12/1989	1	0.7	Confined
8	3424202	11/15/1983	1	0.7	Confined
8	3424301	12/31/1998	1	0.5	Confined
8	3424601	5/27/1988 to 4/12/1989	2	0.7	Confined
8	3426605	3/12/1981 to 10/8/1993	9	0.9	Confined
8	3426704	10/1/1987 to 3/14/1989	2	0.7	Confined
8	3426804	2/26/1985	1	0.5	Confined
8	3426805	4/6/1988 to 3/14/1989	2	0.7	Confined
8	3426807	5/13/1999	1	0.5	Confined
8	3426905	9/8/1988 to 3/15/1989	2	0.7	Confined
8	3427104	11/8/1988	1	0.5	Confined
8	3427204	3/15/1989	1	0.7	Confined
8	3427205	3/15/1989	1	0.5	Confined
8	3427704	9/22/1987	1	0.5	Confined
8	3427705	3/15/1989	1	0.5	Confined
8	3427805	1/7/1997	1	0.5	Confined
8	3428202	2/9/1987 to 11/7/1988	2	0.7	Confined
8	3428203	4/12/1986 to 11/7/1988	2	0.7	Confined
8	3428204	11/15/1988	1	0.5	Confined
8	3428302	4/14/1987	1	0.7	Confined
8	3428304	3/8/2004	1	0.5	Confined
8	3428706	10/14/1984 to 3/16/1989	2	0.7	Confined
8	3428805	11/7/1988	1	0.5	Confined
8	3428809	1/23/1981	1	0.7	Confined
8	3428810	6/14/1989	1	0.5	Confined
8	3429503	11/11/1981 to 11/12/2013	25	0.99	Confined
8	3429703	11/9/1988	1	0.5	Confined
8	3429804	11/9/1988	1	0.5	Confined
8	3429805	7/2/2002	1	0.5	Confined
8	3429806	12/27/2006	1	0.5	Confined
8	3429904	11/9/1988	1	0.5	Confined
8	3429906	3/31/1998 to 5/18/1999	3	1	Confined
8	3431804	11/14/1988	1	0.5	Confined
8	3433502	12/8/1988 to 4/25/1994	3	1	Unconfined
8	3433801	3/13/1981 to 11/6/1986	5	1	Unconfined
8	3434601	3/13/1981 to 11/12/1981	2	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3434802	1/30/1988 to 3/16/1989	2	0.7	Confined
8	3434905	3/16/1989	1	0.5	Confined
8	3435301	3/13/1981 to 11/10/1995	13	0.98	Confined
8	3435307	2/8/1988	1	0.5	Confined
8	3436106	12/23/1988 to 4/17/1989	2	0.7	Confined
8	3436305	4/14/1987 to 11/7/1988	2	1	Confined
8	3436307	12/21/1985 to 11/11/1988	3	0.7	Confined
8	3436904	7/8/2005	1	0.5	Confined
8	3437205	9/20/1990 to 3/26/1998	2	1	Confined
8	3437312	7/2/1997 to 5/18/1999	2	0.85	Confined
8	3437313	7/5/2001	1	0.5	Confined
8	3440403	2/23/2001	1	0.5	Confined
8	3440502	3/13/2007	1	0.5	Confined
8	3440603	8/30/1982 to 4/18/1989	2	1	Confined
8	3440604	1/4/1989	1	0.5	Confined
8	3441310	9/10/1995 to 5/31/2011	27	0.89	Confined
8	3441312	11/9/1998 to 5/31/2011	8	1	Confined
8	3441313	2/15/1999 to 5/31/2011	9	1	Confined
8	3441315	5/5/2009 to 5/31/2011	3	0.7	Confined
8	3443104	11/17/1981 to 10/17/1990	9	1	Confined
8	3443201	3/20/1989	1	0.5	Confined
8	3443206	3/20/1989	1	0.5	Confined
8	3443207	3/20/1989	1	0.5	Confined
8	3443904	3/18/1981 to 4/11/1987	2	1	Confined
8	3444706	3/18/1981 to 11/17/1981	2	1	Confined
8	3445610	6/23/2005	1	0.5	Confined
8	3446404	5/20/1982 to 10/21/2013	17	1	Confined
8	3447504	11/11/1988 to 10/21/2013	22	1	Confined
8	3448103	12/9/1986 to 9/15/2011	24	0.98	Confined
8	3448803	11/16/1988 to 1/15/2012	19	0.97	Confined
8	3449810	7/25/1980 to 12/15/2005	21	1	Confined
8	3450206	4/13/1987 to 1/13/1995	8	0.7	Confined
8	3450306	11/17/1981 to 11/15/2013	29	0.96	Confined
8	3450408	4/14/1987	1	0.5	Confined
8	3450508	8/4/1985	1	0.5	Confined
8	3451805	2/25/1988	1	0.5	Confined
8	3455107	7/1/1995	1	0.5	Confined
8	3455108	9/5/2007	1	0.5	Confined
8	3455903	11/16/2012	1	0.5	Confined
8	3456207	11/15/1984 to 11/12/2013	20	0.99	Confined
8	3456208	1/31/1986 to 11/13/1995	7	0.7	Confined
8	3456705	8/23/1993	1	0.5	Confined
8	3457205	6/28/1990	1	0.5	Confined
8	3457401	11/17/1981 to 11/3/1986	5	0.88	Confined
8	3457405	12/28/1989 to 11/14/2013	25	0.99	Confined
8	3458403	6/6/1983 to 4/6/1987	2	0.7	Confined
8	3458504	3/18/1981 to 10/22/1993	12	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3458904	10/7/1986 to 3/12/2002	3	0.63	Confined
8	3459702	11/25/1981	1	0.5	Confined
8	3460104	9/18/1995	1	0.5	Confined
8	3460503	3/19/1981 to 11/15/2013	31	1	Confined
8	3464403	11/12/1987 to 11/12/1997	9	0.97	Confined
8	3501115	10/7/1992	1	0.5	Confined
8	3501121	9/13/1982	1	0.7	Confined
8	3501705	12/8/1988 to 4/11/1989	2	0.6	Confined
8	3502504	10/19/1982	1	0.7	Confined
8	3502505	9/20/1995	1	0.5	Confined
8	3503107	11/8/1989	1	0.5	Confined
8	3507801	3/18/1981 to 11/13/2003	20	1	Confined
8	3507808	2/2/1988	1	0.5	Confined
8	3509302	7/10/1992	1	0.5	Confined
8	3511408	7/10/1987	1	0.5	Confined
8	3511904	9/10/1980 to 10/23/1987	2	1	Confined
8	3512805	3/10/1983	1	0.5	Confined
8	3515703	3/18/1981 to 11/14/2013	26	1	Confined
8	3517406	6/21/2002	1	0.5	Confined
8	3517606	6/2/1989	1	0.5	Confined
8	3518502	10/14/1983	1	0.5	Confined
8	3518902	1/31/2001	1	0.5	Confined
8	3519102	8/6/1982 to 10/23/1987	2	1	Confined
8	3519402	10/23/1987	1	0.5	Confined
8	3520202	5/17/2006	1	0.5	Confined
8	3521301	4/14/1998	1	0.7	Confined
8	3521902	3/10/1995	1	0.5	Confined
8	3522708	11/11/1981 to 11/14/2013	26	0.92	Confined
8	3523101	7/15/1991 to 11/10/1992	7	1	Unconfined, Under Layer 1
8	3523301	7/15/1991 to 11/10/1992	7	1	Unconfined, Under Layer 1
8	3523505	6/25/1991 to 11/10/1992	7	1	Unconfined, Under Layer 1
8	3523506	6/25/1991 to 11/10/1992	7	1	Unconfined, Under Layer 1
8	3523603	6/27/1991 to 11/10/1992	6	1	Unconfined
8	3529303	4/29/1982	1	0.5	Confined
8	3529304	5/20/1982	1	0.7	Confined
8	3529602	2/25/1981	1	0.7	Confined
8	3530705	3/19/1981 to 11/14/2013	32	0.99	Confined
8	3531602	11/11/1981 to 11/14/2013	31	1	Confined
8	3533403	4/30/1980	1	0.7	Confined
8	3533501	11/10/1981 to 11/7/2001	14	0.91	Confined
8	3533915	11/11/1988	1	0.5	Confined
8	3534403	3/17/1981 to 11/20/1996	14	1	Confined
8	3536206	3/20/1981 to 11/10/1981	2	1	Confined
8	3536801	9/1/2009	1	0.5	Confined
8	3536802	9/1/2009 to 12/17/2013	14	1	Confined
8	3536803	5/1/2009 to 9/1/2009	2	0.7	Confined
8	3536804	5/1/2009 to 9/1/2009	2	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3536805	9/1/2009	1	0.5	Confined
8	3537201	11/11/1981 to 11/12/1999	17	1	Confined
8	3538402	3/19/1981 to 11/16/1983	4	1	Confined
8	3538608	11/30/1993	1	0.5	Confined
8	3540507	11/11/1981 to 11/14/2013	32	1	Unconfined
8	3541603	7/16/1981	1	0.7	Confined
8	3541604	2/15/2010 to 12/15/2013	219	1	Confined
8	3541605	2/15/2010 to 12/12/2013	16	0.7	Confined
8	3541808	3/19/1981	1	0.7	Confined
8	3541809	1/31/1980	1	0.7	Confined
8	3541811	8/29/1985 to 3/10/1988	2	0.7	Confined
8	3541901	3/18/1981	1	0.7	Confined
8	3541906	11/6/1987 to 3/11/1988	2	0.7	Confined
8	3541907	2/15/2010 to 12/12/2013	15	1	Confined
8	3542202	11/12/1981 to 4/5/2010	71	0.97	Confined
8	3542203	9/26/1995	1	0.5	Confined
8	3542204	5/21/2000	1	0.5	Confined
8	3542205	12/18/2003 to 12/6/2005	2	0.6	Confined
8	3542206	5/1/2009 to 7/1/2009	2	0.7	Confined
8	3542208	5/1/2009 to 9/10/2013	12	0.7	Confined
8	3542209	7/1/2009 to 12/12/2013	12	1	Confined
8	3542404	4/4/1988 to 11/14/1988	2	0.7	Confined
8	3542405	4/5/1993	1	0.5	Confined
8	3542407	2/15/2010 to 3/15/2013	11	1	Confined
8	3542503	2/15/2010 to 12/12/2013	15	1	Confined
8	3542507	2/15/2010 to 12/12/2013	15	1	Confined
8	3542702	5/22/1984 to 3/12/1988	2	0.7	Confined
8	3542803	1/16/1999 to 8/26/1999	2	0.85	Confined
8	3543101	10/22/1987	1	0.5	Confined
8	3543102	9/1/2009 to 12/17/2013	16	0.7	Confined
8	3543103	5/1/2010	1	0.5	Confined
8	3543404	9/1/2010 to 12/17/2013	13	1	Confined
8	3543602	4/23/1981	1	0.7	Confined
8	3543605	12/1/2010 to 12/17/2013	11	0.7	Confined
8	3543703	5/1/2009 to 12/17/2013	18	0.7	Confined
8	3543902	7/6/1986 to 3/15/1988	2	0.7	Confined
8	3543904	2/22/1993 to 7/15/2012	39	0.98	Confined
8	3543906	5/1/2009 to 12/30/2013	165	1	Confined
8	3544102	9/8/1984 to 3/14/1988	2	0.7	Confined
8	3544104	9/16/1984 to 3/14/1988	2	0.7	Confined
8	3544105	9/1/2009	1	0.5	Confined
8	3544106	9/1/2009	1	0.5	Confined
8	3544107	5/1/2009 to 9/1/2009	2	0.7	Confined
8	3544109	9/1/2009	1	0.5	Confined
8	3544110	9/1/2009	1	0.5	Confined
8	3544111	9/1/2010 to 12/17/2013	14	1	Confined
8	3544112	9/1/2010 to 12/17/2013	14	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3544113	5/1/2009 to 12/17/2013	18	1	Confined
8	3544114	9/1/2009	1	0.5	Confined
8	3544205	5/1/2009 to 12/17/2013	17	1	Confined
8	3544206	9/1/2009 to 12/17/2013	16	1	Confined
8	3544207	9/1/2009 to 12/17/2013	15	1	Confined
8	3544208	5/1/2009 to 12/17/2013	16	1	Confined
8	3544402	11/13/1981 to 11/16/1994	13	1	Confined
8	3544407	3/17/2010 to 12/17/2013	15	1	Confined
8	3544408	3/17/2010 to 12/17/2013	15	1	Confined
8	3544507	3/17/2010 to 12/17/2013	15	1	Confined
8	3544508	2/19/2010 to 3/6/2012	8	1	Confined
8	3544509	2/19/2010 to 3/6/2012	8	1	Confined
8	3544510	2/19/2010 to 12/17/2013	15	1	Confined
8	3544703	4/2/1981 to 2/1/2008	21	1	Confined
8	3544705	6/18/2012 to 12/18/2013	6	1	Confined
8	3544806	4/15/1991	1	0.5	Confined
8	3545706	11/1/1984	1	0.5	Confined
8	3546202	3/19/1981 to 11/16/1994	15	0.98	Confined
8	3547501	3/19/1981 to 11/9/1995	15	0.98	Confined
8	3548101	3/19/1981 to 12/3/2013	42	1	Unconfined
8	3548202	8/24/1983	1	0.7	Unconfined
8	3548203	12/3/1985	1	0.7	Unconfined
8	3549203	3/19/1981	1	0.7	Confined
8	3549405	3/31/1984	1	0.5	Confined
8	3549502	11/12/1981 to 11/20/1997	14	1	Confined
8	3549512	9/19/1981	1	0.7	Confined
8	3549601	3/12/1981	1	0.7	Confined
8	3549607	9/1/2009 to 9/12/2013	10	1	Confined
8	3549809	7/16/1981	1	0.7	Confined
8	3549811	7/16/1981	1	0.7	Confined
8	3549813	12/20/1982	1	0.7	Confined
8	3549814	8/25/1980 to 3/11/1988	2	1	Confined
8	3550105	8/17/1988	1	0.5	Confined
8	3550106	7/5/1983 to 11/14/1988	4	0.7	Confined
8	3550207	2/27/1988	1	0.5	Confined
8	3550304	8/5/1985 to 11/15/1988	3	0.7	Confined
8	3550606	12/1/2010 to 12/20/2013	12	1	Confined
8	3550704	9/25/1980 to 4/12/1988	2	1	Confined
8	3550801	4/22/1981 to 11/13/2013	32	0.99	Confined
8	3550802	3/17/1981	1	0.7	Confined
8	3550901	4/1/1981	1	0.7	Confined
8	3550903	2/28/1981	1	0.7	Confined
8	3550904	2/28/1981	1	0.7	Confined
8	3550907	2/28/1981	1	0.7	Confined
8	3550908	4/23/1981	1	0.7	Confined
8	3550914	4/4/1984 to 10/31/1988	3	0.7	Confined
8	3551103	1/30/1988 to 4/11/1988	2	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3551104	9/2/1983 to 11/11/1988	3	0.7	Confined
8	3551105	1/24/1990 to 5/20/1992	2	0.7	Confined
8	3551106	2/28/1990	1	0.5	Confined
8	3551402	3/25/2010	1	0.5	Confined
8	3551502	11/12/1981 to 12/2/2004	18	0.87	Confined
8	3551601	12/2/2004 to 4/5/2010	54	0.69	Confined
8	3551602	4/1/1981	1	0.7	Confined
8	3551604	10/21/2008 to 12/18/2013	12	1	Confined
8	3551704	9/1/2009 to 3/25/2010	2	0.7	Confined
8	3551706	9/1/2009 to 3/25/2010	2	0.7	Confined
8	3551707	9/1/2009 to 9/1/2010	4	1	Confined
8	3551803	9/1/2009 to 3/25/2010	2	0.7	Confined
8	3552101	4/2/1981 to 11/13/2013	32	0.97	Confined
8	3552102	4/2/1981	1	0.7	Confined
8	3552301	11/17/1981 to 12/10/2013	17	0.93	Confined
8	3552502	5/20/1986	1	0.5	Confined
8	3552503	8/22/1995	1	0.5	Confined
8	3552701	11/19/1981 to 11/13/2013	28	1	Confined
8	3553102	1/7/1986	1	0.5	Confined
8	3553702	3/19/1981 to 12/10/2013	33	0.95	Unconfined, Under Layer 1
8	3553902	11/22/1982 to 12/1/2009	26	0.97	Unconfined
8	3554401	7/28/1981	1	0.7	Unconfined
8	3554402	6/19/1986	1	0.5	Unconfined
8	3554501	10/19/1984 to 5/13/1986	2	0.7	Unconfined, Under Layer 1
8	3554503	8/10/1983	1	0.5	Unconfined
8	3554601	3/19/1981 to 12/9/2005	24	0.99	Unconfined, Under Layer 1
8	3554704	5/13/1986	1	0.5	Unconfined
8	3554901	11/30/1985 to 6/24/1986	2	0.7	Unconfined, Under Layer 1
8	3555101	3/19/1981 to 11/21/1996	12	1	Unconfined
8	3555503	9/18/1991 to 9/18/1991	2	0.5	Unconfined
8	3555901	3/19/1981 to 12/9/2013	35	1	Unconfined
8	3556501	11/16/1981 to 10/17/1989	4	0.93	Unconfined, Under Layer 1
8	3556702	6/17/1986	1	0.7	Unconfined
8	3556703	6/17/1986	1	0.5	Unconfined
8	3557209	9/1/2010 to 12/20/2013	12	1	Confined
8	3557210	9/1/2010 to 12/19/2013	14	1	Confined
8	3557302	2/24/2011 to 12/19/2013	12	1	Confined
8	3557303	2/10/2010 to 11/1/2010	3	0.7	Confined
8	3557304	2/10/2010 to 12/1/2010	3	0.7	Confined
8	3557305	2/10/2010	1	0.7	Confined
8	3557306	2/10/2010	1	0.5	Confined
8	3557307	5/1/2009 to 12/19/2013	18	1	Confined
8	3557309	5/1/2009 to 2/22/2010	3	0.7	Confined
8	3557310	9/1/2010 to 12/1/2010	2	0.7	Confined
8	3557311	2/10/2010 to 12/19/2013	15	1	Confined
8	3557312	2/10/2010 to 12/1/2010	3	0.7	Confined
8	3557313	9/15/2010 to 11/1/2010	2	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3557314	9/1/2010 to 12/1/2010	2	0.7	Confined
8	3557315	2/10/2010 to 12/1/2010	3	0.7	Confined
8	3557316	5/1/2009 to 12/1/2010	5	0.7	Confined
8	3557511	7/7/2003 to 4/5/2010	49	0.7	Confined
8	3557512	9/1/2010 to 12/19/2013	13	1	Confined
8	3557802	5/3/2006	1	0.5	Confined
8	3558103	7/14/1981	1	0.7	Confined
8	3558105	10/17/2003	1	0.5	Confined
8	3558303	3/10/1988	1	0.5	Confined
8	3558304	5/1/2009 to 12/18/2013	18	1	Confined
8	3558305	9/1/2009 to 12/19/2013	14	1	Confined
8	3558306	3/24/2010 to 12/20/2013	16	1	Confined
8	3558402	3/19/1981	1	0.7	Confined
8	3558404	7/8/1996	1	0.7	Confined
8	3558405	2/22/2011 to 12/30/2013	118	1	Confined
8	3558408	5/1/2009 to 12/19/2013	18	1	Confined
8	3558901	5/1/2009 to 12/18/2013	13	1	Confined
8	3559102	2/1/2006 to 4/5/2010	51	1	Confined
8	3559103	6/18/1983 to 4/9/1988	2	0.7	Confined
8	3559104	9/1/2009	1	0.5	Confined
8	3559106	9/1/2009 to 9/1/2010	2	0.7	Confined
8	3559107	9/1/2009 to 12/18/2013	7	1	Confined
8	3559108	9/1/2009 to 12/18/2013	14	1	Confined
8	3559204	9/1/2009 to 3/22/2010	2	0.7	Confined
8	3559206	9/1/2009 to 12/18/2013	17	1	Confined
8	3559404	9/1/2010 to 12/18/2013	14	1	Confined
8	3559405	5/1/2009 to 12/18/2013	18	1	Confined
8	3559601	11/19/1981 to 11/13/2013	31	0.98	Confined
8	3559703	9/1/2009 to 12/21/2012	12	1	Confined
8	3559704	9/1/2009 to 12/21/2012	13	1	Confined
8	3559804	5/1/2009 to 12/18/2013	17	1	Confined
8	3559805	5/1/2009 to 12/18/2013	16	1	Confined
8	3559902	11/19/1981 to 11/19/2009	24	0.98	Confined
8	3559903	7/15/1981	1	0.7	Confined
8	3559906	2/24/2010 to 12/18/2013	13	1	Confined
8	3560502	11/17/1981 to 12/10/2013	30	0.99	Confined
8	3561303	5/14/1986	1	0.5	Unconfined
8	3561304	5/14/1986	1	0.5	Unconfined
8	3561401	7/27/1981 to 6/24/1986	2	1	Unconfined, Under Layer 1
8	3561501	3/19/1981 to 11/7/2002	21	1	Unconfined, Under Layer 1
8	3561502	1/3/1985	1	0.5	Unconfined
8	3561802	4/30/1981	1	0.7	Confined
8	3561803	12/10/1985	1	0.5	Unconfined, Under Layer 1
8	3562301	11/17/1981 to 12/3/2013	43	0.99	Unconfined
8	3562302	6/19/1986	1	0.5	Unconfined
8	3563303	10/28/1984	1	0.7	Unconfined, Under Layer 1
8	3563701	3/19/1981 to 12/9/2013	32	1	Unconfined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3563801	1/18/1983 to 6/16/1986	2	0.7	Unconfined
8	3564101	12/29/1981	1	0.7	Unconfined
8	3564102	5/22/1986	1	0.5	Unconfined, Under Layer 1
8	3564201	3/17/1984 to 6/25/1986	2	0.7	Unconfined
8	3564401	9/6/1985	1	0.7	Unconfined, Under Layer 1
8	3564502	12/4/1998 to 12/4/1998	2	0.5	Unconfined
8	3601801	7/1/1986	1	0.7	Unconfined
8	3610701	11/18/1981 to 11/21/2013	31	1	Confined
8	3617201	5/14/1980 to 7/2/1986	2	1	Confined
8	3617601	8/2/1980 to 7/2/1986	2	1	Confined
8	3633209	1/21/2002	1	0.5	Confined
8	3702202	3/30/1981	1	0.7	Confined
8	3702207	9/30/1981 to 4/9/1988	2	1	Confined
8	3702702	8/14/1985 to 4/7/1988	2	0.7	Confined
8	3702703	6/5/1998 to 8/26/1999	2	1	Confined
8	3702704	7/28/2011 to 12/19/2013	9	1	Confined
8	3704303	6/18/1986	1	0.5	Confined
8	3705301	2/2/1982 to 12/11/2005	2	1	Confined
8	3705803	5/30/1981 to 4/29/1986	2	1	Confined
8	3705902	1/5/1980 to 11/9/1981	128	1	Confined
8	3705905	4/30/1986 to 11/21/2013	26	0.92	Confined
8	3707201	3/19/1981 to 12/9/2013	32	0.99	Unconfined
8	3707202	11/18/1981 to 11/3/2010	26	0.99	Unconfined
8	3707401	11/9/2006 to 11/21/2013	6	0.95	Unconfined
8	3707403	1/5/1992	1	0.5	Unconfined
8	3707404	12/8/1999	1	0.5	Unconfined
8	3708501	7/22/1982	1	0.7	Unconfined
8	3708606	5/1/2009	1	0.5	Unconfined
8	3708701	11/18/1981 to 11/21/2013	33	0.99	Unconfined
8	3708801	11/18/1981 to 11/17/1998	15	1	Unconfined, Under Layer 1
8	3708804	4/1/1987	1	0.5	Unconfined
8	3711404	12/14/1988	1	0.5	Confined
8	3712806	9/22/1988 to 12/7/1988	2	0.7	Confined
8	3712909	2/25/2007	1	0.5	Confined
8	3713104	7/13/1981	1	0.7	Confined
8	3713107	5/1/2009 to 11/28/2011	8	1	Confined
8	3713402	5/11/1988	1	0.7	Confined
8	3713603	11/19/1981 to 1/11/1989	7	1	Confined
8	3713604	4/29/1986	1	0.5	Confined
8	3713605	6/15/1992	1	0.5	Confined
8	3713804	5/21/1981	1	0.7	Confined
8	3713805	9/11/2000	1	0.5	Confined
8	3714204	6/26/2006	1	0.5	Confined
8	3714502	5/1/1986	1	0.5	Confined
8	3715102	4/29/1986	1	0.5	Unconfined
8	3715103	7/25/1980 to 10/12/1989	6	1	Unconfined
8	3715104	4/16/1982	1	0.7	Unconfined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3715105	7/18/1985 to 11/21/2013	27	0.99	Unconfined
8	3715601	5/16/1981	1	0.7	Unconfined
8	3716201	11/18/1981 to 11/21/2013	30	1	Unconfined
8	3716302	11/18/1981 to 11/20/2013	30	1	Unconfined
8	3721102	12/15/1992 to 2/27/2006	3	0.63	Confined
8	3722301	6/28/1986 to 1/11/1989	3	0.63	Confined
8	3723402	5/20/2004	1	0.5	Confined
8	3723501	1/15/1992	1	0.5	Confined
8	3801102	3/19/1981 to 11/14/2013	28	1	Confined
8	3802303	3/5/1987	1	0.5	Confined
8	3802606	10/12/1989 to 3/18/1996	2	0.7	Confined
8	3803805	3/12/2002	1	0.5	Confined
8	3803806	9/10/2003	1	0.5	Confined
8	3809609	10/8/1986 to 3/22/1996	3	0.7	Confined
8	3809610	11/10/2005	1	0.5	Confined
8	3810111	1/15/1981 to 11/14/2013	19	0.95	Confined
8	3810205	11/18/1981 to 11/12/2012	28	1	Confined
8	3810503	4/9/1986	1	0.5	Confined
8	3810803	4/1/1982	1	0.5	Confined
8	3810903	3/18/1999	1	0.5	Confined
8	3811603	3/13/2002	1	0.5	Confined
8	3818203	5/19/1982	1	0.5	Confined
8	3818204	3/21/1983	1	0.5	Confined
8	3818206	10/17/1989	1	0.5	Confined
8	3819304	10/25/1987	1	0.5	Confined
8	3819406	6/3/1986 to 10/10/1989	2	0.7	Confined
8	3819408	7/22/1993	1	0.5	Confined
8	3821704	3/20/1981 to 11/19/1981	2	1	Confined
8	3821705	11/13/1989	1	0.5	Confined
8	3829105	11/13/1989	1	0.5	Confined
8	3829106	11/13/1989	1	0.5	Confined
8	3915503	4/22/1981 to 4/17/1984	3	1	Confined
8	3923101	4/23/1981 to 10/30/2013	24	0.96	Unconfined, Under Layer 1
8	3923105	4/4/1985	1	0.7	Unconfined, Under Layer 1
8	3923302	11/11/1985 to 11/30/1988	4	0.7	Confined
8	3923404	4/23/1981 to 10/30/2013	31	0.98	Confined
8	3924204	4/24/2000	1	0.5	Confined
8	3924508	3/16/2000	1	0.5	Confined
8	3924704	1/8/2001	1	0.5	Confined
8	3930605	4/20/1981 to 10/30/2013	31	0.99	Confined
8	3930609	11/10/1998	1	0.5	Confined
8	3930702	1/16/1981 to 3/9/1982	2	1	Confined
8	3930717	4/15/1992	1	0.7	Confined
8	3930906	4/20/1981	1	0.7	Confined
8	3931301	4/23/1981 to 10/30/2013	31	1	Confined
8	3932209	7/25/1984	1	0.7	Confined
8	3937910	1/30/1981 to 3/10/1982	2	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
8	3938201	2/8/1980 to 3/9/1982	3	1	Confined
8	3938203	3/9/1982	1	0.7	Confined
8	3938401	2/6/1981 to 3/9/1982	2	1	Confined
8	3938501	2/7/1981 to 3/9/1982	2	1	Confined
8	3938703	10/21/1981	1	0.7	Confined
8	3938704	2/6/1981	1	0.7	Confined
8	3938706	3/10/1982	1	0.7	Confined
8	3938802	8/7/1980 to 3/9/1982	2	1	Confined
8	3939406	3/2/1981	1	0.7	Confined
8	3939705	1/2/2002	1	0.5	Confined
8	3946101	3/10/1982	1	0.7	Confined
8	3946102	7/30/1980 to 3/10/1982	3	1	Confined
8	3946104	2/19/1981	1	0.7	Confined
8	3946106	10/22/1981	1	0.7	Confined
8	3946107	4/27/1987	1	0.5	Confined
8	320153093583601	7/20/1982 to 10/21/2013	137	1	Unconfined
8	320849093505001	8/3/2004 to 12/30/2013	28	1	Unconfined
8	325805093594001	10/1/2012 to 10/24/2013	4	0.7	Confined
8	3525605_49679	7/19/2006	1	0.5	Confined
8	3811605_51535	12/6/1987	1	0.5	Confined
9	1641102	3/11/1981 to 11/11/2013	31	0.99	Unconfined
9	1641902	11/5/1982 to 11/21/2002	22	1	Confined
9	1643401	11/5/1982 to 11/13/2012	30	0.98	Confined
9	1646601	11/20/1981	1	0.7	Confined
9	1650207	3/10/1981 to 11/12/2013	25	0.99	Confined
9	1651402	4/15/1998	1	0.7	Confined
9	1651411	6/28/1994	1	0.5	Confined
9	1653401	7/28/2004	1	0.5	Confined
9	1654403	3/23/1993 to 11/13/2013	17	0.96	Confined
9	1657412	7/17/1985	1	0.5	Confined
9	1755407	3/11/1981 to 1/14/1986	5	1	Confined
9	1755706	3/16/1993	1	0.5	Confined
9	1756417	3/11/1981 to 11/11/2013	35	1	Confined
9	1756711	11/17/1981 to 2/9/1988	7	1	Confined
9	1756901	3/11/1981 to 11/11/2013	32	1	Confined
9	1759501	3/11/1981 to 12/20/2005	24	1	Unconfined
9	1759602	5/16/1987	1	0.7	Unconfined, Under Layer 1
9	1759603	6/11/1998	1	0.7	Unconfined, Under Layer 1
9	1760401	10/28/1982 to 11/14/1996	11	0.95	Unconfined
9	1760804	3/5/1986	1	0.5	Confined
9	1760902	3/2/1983	1	0.5	Confined
9	1761302	1/16/1986	1	0.5	Confined
9	1761402	8/20/1991	1	0.5	Confined
9	1761501	11/1/1990	1	0.5	Unconfined, Under Layer 1
9	1761901	10/28/1982 to 12/10/1991	5	1	Confined
9	1761902	10/11/1990	1	0.5	Confined
9	1764504	8/21/1980	1	0.5	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
9	1764707	10/7/1987	1	0.5	Confined
9	3348615	6/8/1982 to 11/15/2013	19	0.98	Unconfined
9	3348905	4/20/1994	1	0.7	Unconfined
9	3348906	9/25/1999	1	0.5	Confined
9	3355902	4/29/1981	1	0.7	Unconfined, Under Layer 1
9	3356901	3/18/1981 to 10/22/1993	13	1	Unconfined, Under Layer 1
9	3363901	11/9/1982 to 12/8/1988	6	1	Unconfined, Under Layer 1
9	3364105	4/21/1994	1	0.7	Unconfined, Under Layer 1
9	3364201	11/17/1981 to 11/4/2004	17	1	Unconfined, Under Layer 1
9	3364701	4/29/1981 to 11/5/1996	13	1	Unconfined
9	3403101	10/27/1982 to 10/7/1993	11	1	Unconfined
9	3403103	8/14/1991	1	0.7	Unconfined
9	3403402	8/14/1991	1	0.7	Unconfined, Under Layer 1
9	3403503	4/15/1983	1	0.7	Unconfined
9	3403504	3/12/1981 to 10/7/1993	12	0.98	Unconfined
9	3403704	10/27/1982 to 11/13/2013	24	1	Unconfined
9	3403801	10/27/1982 to 11/13/2013	31	0.99	Unconfined, Under Layer 1
9	3403808	3/21/1980	1	0.7	Confined
9	3404401	3/11/1981 to 6/14/2006	19	0.98	Confined
9	3404507	4/4/1989	1	0.5	Confined
9	3404509	4/4/1989	1	0.5	Confined
9	3404602	3/11/1981 to 11/19/1996	15	1	Confined
9	3404606	10/31/1986 to 4/7/1989	2	0.7	Confined
9	3404607	8/31/1986 to 4/7/1989	2	0.7	Confined
9	3404801	8/19/1981	1	0.7	Confined
9	3405508	4/11/1989	1	0.5	Confined
9	3405509	12/20/1985 to 4/11/1989	2	0.7	Confined
9	3406703	7/23/1998 to 4/27/2010	2	0.7	Confined
9	3410202	3/12/1981 to 11/7/1986	5	1	Unconfined
9	3410501	11/13/1984 to 11/7/1986	2	1	Unconfined
9	3410802	4/4/1988	1	0.7	Unconfined, Under Layer 1
9	3411101	8/14/1991	1	0.7	Unconfined
9	3411207	11/21/1986	1	0.5	Confined
9	3411401	3/12/1981 to 11/15/1983	3	1	Confined
9	3411403	4/2/1991 to 8/14/1991	2	1	Unconfined
9	3411503	6/17/1998	1	0.5	Confined
9	3411602	10/27/1981	1	0.7	Confined
9	3411603	10/20/1981	1	0.7	Confined
9	3411605	6/23/1984	1	0.5	Confined
9	3412302	8/10/1999	1	0.5	Confined
9	3412303	1/4/2005	1	0.5	Confined
9	3412401	2/24/1993	1	0.7	Confined
9	3412406	5/25/1988 to 5/8/1991	2	0.6	Confined
9	3412706	7/10/1990	1	0.5	Confined
9	3413401	3/11/1981 to 11/12/2013	33	1	Confined
9	3418507	8/8/1980	1	0.7	Confined
9	3418609	7/31/1980	1	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
9	3418610	2/21/1989	1	0.7	Confined
9	3418804	3/12/1981 to 11/6/1986	6	1	Unconfined, Under Layer 1
9	3418904	2/21/1989	1	0.5	Confined
9	3418905	8/17/1993	1	0.5	Confined
9	3419103	11/18/1988	1	0.5	Confined
9	3419303	1/5/1998	1	0.5	Confined
9	3419416	11/11/1983 to 1/5/1989	5	0.66	Confined
9	3419417	2/20/1989	1	0.5	Confined
9	3419418	2/20/1989	1	0.5	Confined
9	3419421	3/10/1980 to 2/20/1989	2	1	Confined
9	3419422	10/28/1985	1	0.5	Confined
9	3419424	12/13/2005	1	0.5	Confined
9	3419502	3/12/1981 to 11/12/2013	33	1	Confined
9	3419706	1/14/1988	1	0.5	Confined
9	3420102	4/6/1989	1	0.7	Confined
9	3425202	11/13/1981 to 11/13/2013	28	1	Unconfined
9	3425206	2/22/1989	1	0.7	Unconfined
9	3425208	4/25/1994 to 4/25/1994	2	0.85	Unconfined
9	3425402	4/27/1994 to 4/27/1994	2	0.85	Unconfined
9	3425505	10/17/1988	1	0.7	Unconfined
9	3425604	3/12/1981 to 11/13/2013	31	0.99	Unconfined, Under Layer 1
9	3425605	2/22/1989	1	0.5	Confined
9	3425606	2/23/1989	1	0.5	Confined
9	3425607	2/23/1989	1	0.5	Confined
9	3426103	11/13/1981 to 11/15/1983	2	1	Confined
9	3426106	3/14/1989	1	0.7	Confined
9	3426405	6/9/1984	1	0.5	Confined
9	3426407	6/25/1984	1	0.5	Confined
9	3426705	2/6/2006	1	0.5	Confined
9	3427105	4/13/2005	1	0.5	Confined
9	3427402	3/15/1989	1	0.7	Confined
9	3427403	5/25/1984 to 3/15/1989	2	0.7	Confined
9	3428505	11/7/1988	1	0.7	Confined
9	3428806	10/8/1984 to 11/7/1988	2	0.7	Confined
9	3428905	3/13/2002	1	0.5	Confined
9	3433302	3/12/1981 to 11/13/2013	25	0.98	Confined
9	3433303	3/16/1989	1	0.7	Confined
9	3433401	11/12/1981 to 11/13/2013	31	0.99	Unconfined
9	3433702	6/16/1998	1	0.7	Unconfined
9	3433905	3/16/1989	1	0.7	Confined
9	3435302	6/22/1985 to 3/17/1989	2	0.7	Confined
9	3435303	3/17/1989	1	0.5	Confined
9	3440605	4/30/1998 to 5/20/1999	2	0.85	Confined
9	3440606	12/4/1997	1	0.5	Confined
9	3441204	3/20/1989	1	0.5	Confined
9	3442109	10/17/1983	1	0.5	Confined
9	3442403	3/18/1981 to 11/15/2013	28	0.94	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
9	3442503	11/17/1981 to 10/12/1993	10	1	Confined
9	3449510	8/9/1999	1	0.5	Confined
9	3449511	7/23/2003	1	0.5	Confined
9	3450407	4/8/1987	1	0.5	Confined
9	3450409	7/22/1981	1	0.5	Confined
9	3457406	8/5/1992	1	0.5	Confined
9	3511702	4/11/1991 to 11/14/2013	20	0.97	Confined
9	3514703	11/11/1981 to 11/14/2013	32	0.99	Confined
9	3516801	3/18/1981 to 11/14/2013	33	1	Confined
9	3522802	3/26/1984	1	0.5	Confined
9	3523202	10/7/1992	1	0.5	Confined
9	3523203	12/9/1992	1	0.5	Confined
9	3523508	11/10/1988	1	0.5	Confined
9	3523509	5/11/2006 to 11/14/2013	5	0.94	Confined
9	3523605	9/23/1981	1	0.7	Confined
9	3523802	11/11/1981 to 11/16/1982	2	1	Confined
9	3532102	11/25/1986	1	0.5	Confined
9	3532702	7/18/2003	1	0.5	Confined
9	3536806	5/1/2009 to 9/1/2009	2	0.7	Confined
9	3537604	1/19/1986	1	0.5	Confined
9	3537801	11/11/1981 to 11/8/2000	20	0.99	Confined
9	3539502	12/3/1993	1	0.5	Confined
9	3540105	1/4/1983	1	0.5	Confined
9	3540107	5/11/2006	1	0.7	Unconfined, Under Layer 1
9	3540108	4/27/1982	1	0.7	Confined
9	3540109	11/11/1983	1	0.5	Confined
9	3540110	8/31/1981	1	0.7	Unconfined, Under Layer 1
9	3540111	9/25/1987	1	0.5	Unconfined, Under Layer 1
9	3543201	3/3/1981	1	0.7	Confined
9	3543203	2/19/2010 to 12/17/2013	16	1	Confined
9	3543403	9/1/2009	1	0.5	Confined
9	3544103	10/7/1984 to 4/5/2010	85	0.7	Confined
9	3544108	9/1/2009 to 12/17/2013	16	1	Confined
9	3544202	12/1/2010 to 12/17/2013	13	1	Confined
9	3544203	9/1/2009 to 12/17/2013	16	1	Confined
9	3544204	9/1/2010 to 12/17/2013	13	1	Confined
9	3544304	9/1/2010 to 12/18/2013	14	1	Confined
9	3544305	9/1/2009 to 12/18/2013	17	1	Confined
9	3544405	9/1/2009 to 12/17/2013	17	1	Confined
9	3544406	9/1/2009	1	0.5	Confined
9	3544504	5/19/1986 to 3/15/1988	2	0.7	Confined
9	3544505	11/17/2005 to 4/5/2010	42	0.70	Confined
9	3544506	9/9/2011	1	0.5	Confined
9	3544804	4/11/1988	1	0.7	Confined
9	3544805	12/14/1984	1	0.5	Confined
9	3545701	3/19/1981 to 12/3/2013	42	1	Confined
9	3545802	9/25/1983 to 6/18/1986	2	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
9	3545901	6/17/1986	1	0.5	Confined
9	3546701	11/17/1981 to 11/22/1982	2	1	Confined
9	3546703	11/6/2001 to 12/9/2013	12	1	Confined
9	3547205	5/20/1986	1	0.5	Confined
9	3547502	3/19/1981 to 11/9/2012	23	0.97	Confined
9	3547503	11/9/1988 to 12/10/2013	13	0.88	Confined
9	3547701	6/24/1986	1	0.5	Confined
9	3549511	8/2/1984 to 6/9/1988	2	0.7	Confined
9	3549806	8/25/1980	1	0.7	Confined
9	3549812	10/15/1980 to 7/15/1981	2	1	Confined
9	3549815	9/2/1983	1	0.5	Confined
9	3550902	11/19/2007	1	0.5	Confined
9	3551302	4/11/1988	1	0.5	Confined
9	3552106	9/24/2002 to 4/5/2010	5	0.7	Confined
9	3554702	11/17/1983	1	0.7	Confined
9	3561305	5/14/1986	1	0.5	Confined
9	3561307	5/14/1986	1	0.5	Confined
9	3561902	2/27/1980	1	0.7	Confined
9	3562101	6/19/1986	1	0.5	Confined
9	3562702	3/19/1981 to 10/20/2011	31	1	Confined
9	3562705	5/21/1986	1	0.5	Confined
9	3562706	5/21/1986	1	0.5	Confined
9	3562707	5/21/1986	1	0.5	Confined
9	3563302	7/31/1983 to 6/24/1986	2	0.7	Confined
9	3563601	11/16/1981 to 12/3/2013	42	1	Confined
9	3609601	8/28/1980 to 7/1/1986	2	1	Confined
9	3703201	4/1/1981 to 11/13/2013	20	0.96	Confined
9	3703202	4/3/1981 to 12/2/2004	2	1	Confined
9	3703304	1/2/1992 to 12/15/1993	3	0.7	Confined
9	3706501	4/29/1986	1	0.5	Confined
9	3706502	5/9/2001 to 7/22/2003	2	0.7	Confined
9	3708301	11/18/1981 to 11/9/1990	7	1	Confined
9	3708302	11/18/1981 to 11/11/1986	6	1	Confined
9	3708601	11/18/1981 to 1/10/1989	7	1	Confined
9	3709102	3/18/1982 to 11/13/2013	34	0.97	Confined
9	3710302	3/19/1982 to 11/8/1990	10	1	Confined
9	3711901	6/6/1987	1	0.5	Confined
9	3711908	1/28/1992	1	0.5	Confined
9	3712804	3/26/1982 to 11/19/2013	29	1	Confined
9	3712805	11/13/2000	1	0.7	Confined
9	3715501	11/17/1981 to 11/23/1982	2	1	Confined
9	3715503	11/11/1981 to 11/11/1992	7	1	Confined
9	3716701	11/18/1981 to 11/20/2013	32	1	Confined
9	3720106	9/22/1988 to 12/7/1988	2	0.7	Confined
9	3721904	5/12/1988 to 12/12/1988	2	1	Confined
9	3723602	4/30/1986	1	0.7	Confined
9	3729304	5/12/1988	1	0.7	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
9	3732205	8/5/1985	1	0.5	Confined
9	3809607	11/18/1981 to 6/1/2006	22	0.86	Confined
9	3809903	3/30/1995	1	0.5	Confined
9	3810112	2/21/2001	1	0.5	Confined
9	3810804	4/13/1981 to 10/17/1989	2	1	Confined
9	3810805	11/1/1994	1	0.5	Confined
9	3811703	9/3/1986	1	0.5	Confined
9	3818205	8/7/1989	1	0.5	Confined
9	3819407	7/20/1993 to 3/21/1996	2	0.7	Confined
9	3820104	11/9/1989	1	0.5	Confined
9	3906902	4/21/1981	1	0.7	Unconfined
9	3906903	4/8/1994	1	0.7	Unconfined
9	3907202	5/29/1998	1	0.7	Unconfined
9	3907604	5/25/1996	1	0.7	Unconfined
9	3908407	4/22/1981	1	0.7	Confined
9	3914501	4/21/1981	1	0.7	Unconfined
9	3914702	4/21/1981 to 10/30/2013	29	1	Unconfined
9	3915408	3/24/1981	1	0.7	Confined
9	3915707	8/11/1985	1	0.5	Confined
9	3915802	4/22/1981 to 10/30/2013	33	1	Confined
9	3915813	9/18/2001	1	0.5	Confined
9	3916204	4/22/1981 to 4/11/1984	3	1	Confined
9	3921901	4/21/1981	1	0.7	Unconfined
9	3921903	1/14/1981 to 3/9/1982	2	1	Unconfined
9	3921904	1/14/1981 to 3/9/1982	2	1	Unconfined
9	3922411	4/21/1981 to 11/11/2003	21	1	Unconfined
9	3922513	7/24/1999 to 9/16/1999	2	1	Unconfined
9	3923104	9/6/2005	1	0.5	Confined
9	3923303	11/19/1981	1	0.7	Confined
9	3923311	1/16/1987	1	0.5	Confined
9	3923314	6/29/1999 to 8/11/1999	2	0.7	Confined
9	3923315	12/7/2002	1	0.5	Confined
9	3923410	5/31/1983	1	0.5	Confined
9	3923411	4/26/2005	1	0.5	Confined
9	3923508	4/11/1991	1	0.5	Confined
9	3923509	7/17/1991	1	0.5	Confined
9	3923606	4/15/1982	1	0.5	Confined
9	3923903	12/23/2008	1	0.5	Confined
9	3929201	3/9/1982	1	0.7	Unconfined
9	3929203	9/24/1980 to 3/9/1982	2	1	Unconfined
9	3929301	3/9/1982	1	0.7	Unconfined
9	3929501	1/15/1981	1	0.7	Unconfined
9	3929502	1/15/1981 to 3/9/1982	2	1	Unconfined
9	3929504	1/14/1981 to 3/9/1982	2	1	Unconfined
9	3929505	1/14/1981	1	0.7	Unconfined
9	3929511	1/15/1981 to 3/9/1982	2	1	Unconfined
9	3929601	2/7/1981 to 3/9/1982	2	1	Unconfined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)

Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

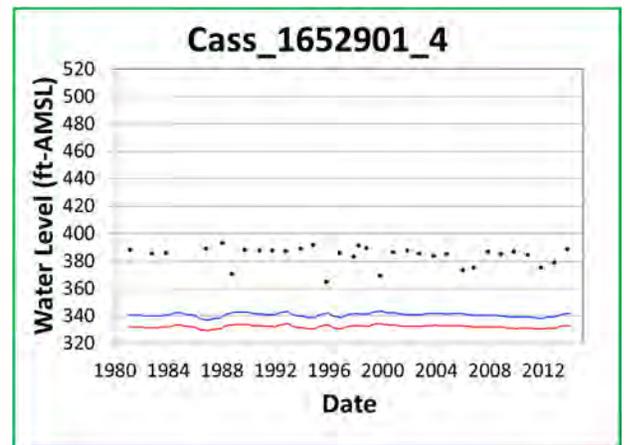
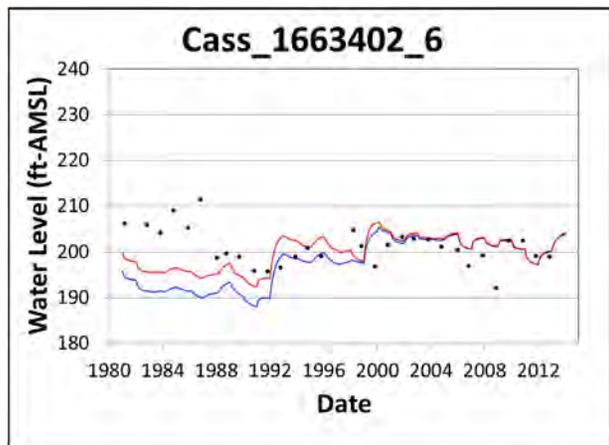
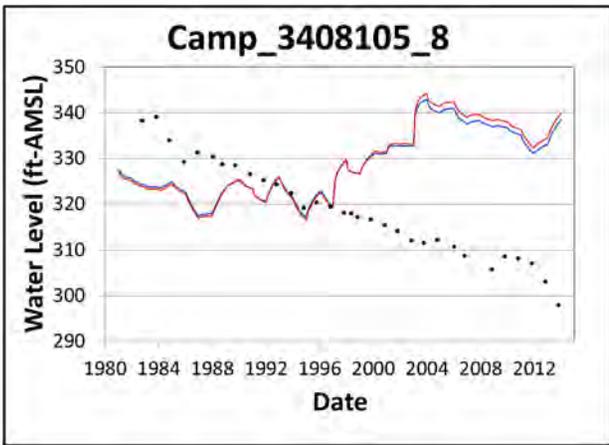
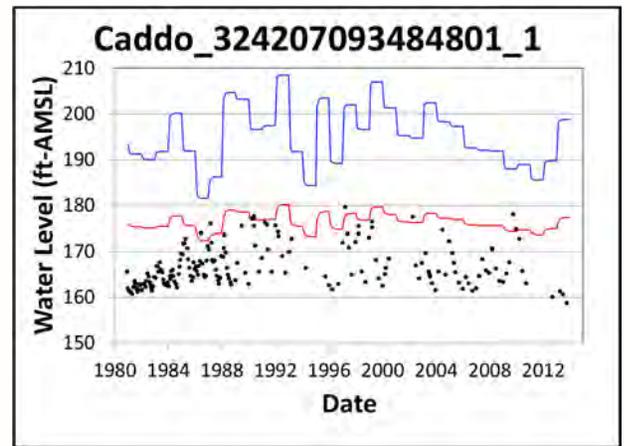
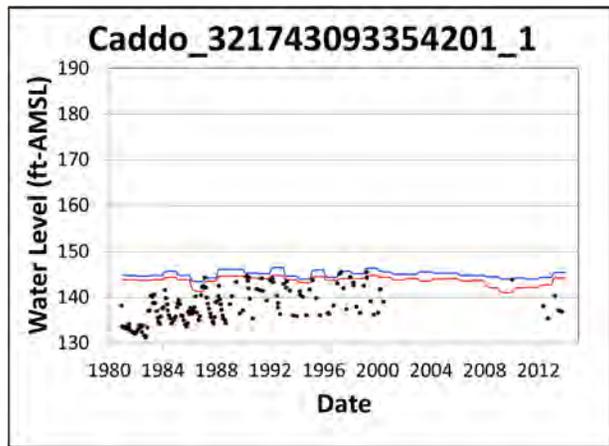
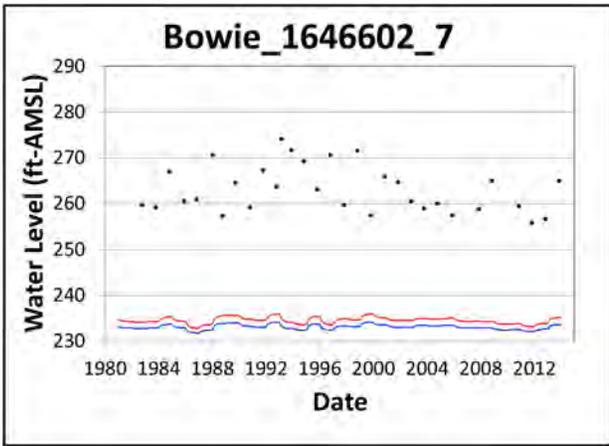
Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
9	3929602	4/24/1981	1	0.7	Unconfined
9	3929605	1/15/1981	1	0.7	Unconfined
9	3929606	2/17/1981 to 3/9/1981	2	1	Unconfined
9	3929801	3/11/1980 to 10/29/2013	38	0.99	Unconfined
9	3929803	1/15/1981 to 1/29/1981	2	1	Unconfined
9	3929804	3/10/1982	1	0.7	Unconfined, Under Layer 1
9	3929806	1/29/1981 to 3/9/1982	2	1	Unconfined
9	3929807	1/16/1981 to 3/9/1982	2	1	Unconfined
9	3929901	1/15/1981 to 3/9/1982	2	1	Confined
9	3930303	5/2/1994	1	0.5	Confined
9	3930703	3/11/1980 to 11/20/1997	22	1	Confined
9	3930704	3/27/1981 to 3/8/1982	2	1	Confined
9	3930706	1/16/1981 to 3/9/1982	2	1	Confined
9	3930708	8/30/1982	1	0.7	Confined
9	3930709	8/30/1982	1	0.7	Confined
9	3930711	1/29/1981 to 3/9/1982	2	1	Confined
9	3930712	1/16/1981 to 3/9/1982	2	1	Confined
9	3930713	1/16/1981	1	0.7	Confined
9	3930714	3/9/1982	1	0.7	Confined
9	3930715	11/5/1982	1	0.7	Confined
9	3931105	10/22/1998	1	0.5	Confined
9	3937102	3/11/1980 to 11/13/1995	18	1	Confined
9	3937201	4/10/1981 to 3/10/1982	2	1	Confined
9	3937202	5/19/1981	1	0.7	Confined
9	3937301	7/24/1980 to 2/3/1982	3	1	Confined
9	3937302	3/9/1982	1	0.7	Confined
9	3937306	3/9/1982	1	0.7	Confined
9	3937307	3/13/1981	1	0.7	Confined
9	3937401	1/29/1981 to 3/10/1982	2	1	Confined
9	3937501	3/10/1982	1	0.7	Confined
9	3937502	3/6/1981	1	0.7	Confined
9	3937503	3/10/1982	1	0.7	Confined
9	3937505	3/10/1982	1	0.7	Confined
9	3937601	10/9/1980 to 10/29/2013	887	1	Confined
9	3937602	1/30/1981 to 3/10/1981	2	1	Confined
9	3937801	3/11/1980 to 10/29/2013	33	0.99	Confined
9	3937802	9/30/1980 to 4/28/1981	2	1	Confined
9	3937807	3/10/1982	1	0.7	Confined
9	3937907	1/29/1981 to 3/10/1982	2	1	Confined
9	3937908	3/10/1982	1	0.7	Confined
9	3938102	2/6/1981 to 3/9/1982	2	1	Confined
9	3938207	9/15/1982	1	0.7	Confined
9	3938208	11/19/1982	1	0.7	Confined
9	3938209	8/25/1987	1	0.5	Confined
9	3938402	1/29/1981	1	0.7	Confined
9	3938403	3/10/1982	1	0.7	Confined
9	3938701	2/17/1981 to 3/9/1982	2	1	Confined

Appendix B Table 1 Model Targets and Weights for 1980 to 2013 Simulation (continued)
 Northern Portion of the Queen City, Sparta, and Carrizo-Wilcox Aquifers

Model Layer	Target Name	Date Range	Number of Water Levels	Average Water Level Weight	Aquifer Type Designation
9	3945102	3/10/1982	1	0.7	Confined
9	3945201	1/30/1981 to 3/10/1982	2	1	Confined
9	3945202	3/11/1980 to 10/29/2013	36	1	Confined
9	3945207	2/19/1981 to 3/10/1982	2	1	Confined
9	3945208	1/30/1981 to 3/10/1982	2	1	Confined
9	3945209	4/28/1981	1	0.7	Confined
9	321311093380501	3/3/1980 to 10/21/2013	24	0.7	Confined
9	3544601_49674	7/23/1980 to 11/13/2013	27	0.66	Confined
9	3544607_49676	4/30/1991 to 4/23/2002	2	0.6	Confined
9	3544608_49677	4/7/2004	1	0.5	Confined
9	3545707_49672	4/26/1990 to 4/19/2006	2	0.7	Confined

Notes:

1. There are 1,797 transient model targets in total, listed in this table. See Section 3.2 for a description of targets.
2. Aquifer types for model targets are defined as follows:
 - unconfined when target layer is at the surface
 - confined when target layer is overlain by one or more model layers
 - unconfined, under Layer 1 when target layer is overlain only by Layer 1 quaternary alluvium (81 wells).



Notes:

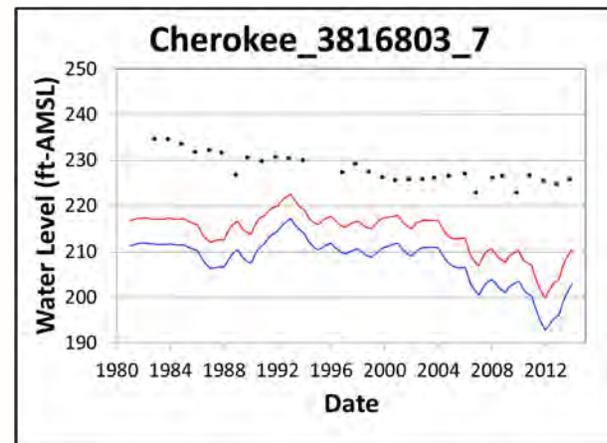
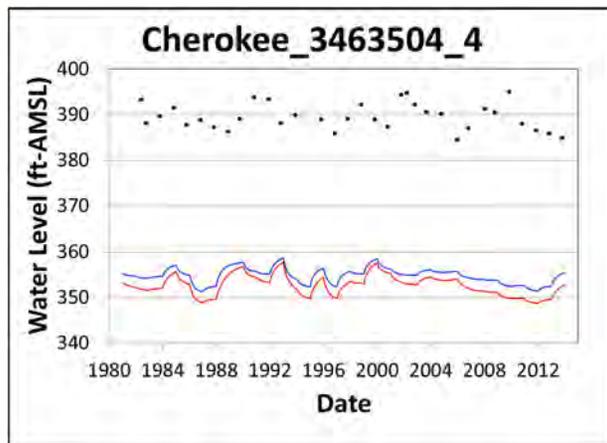
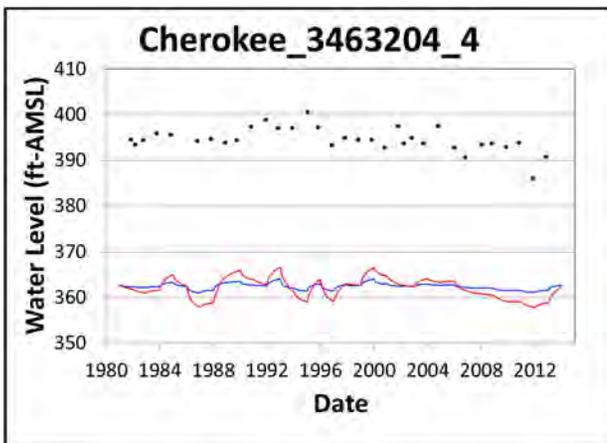
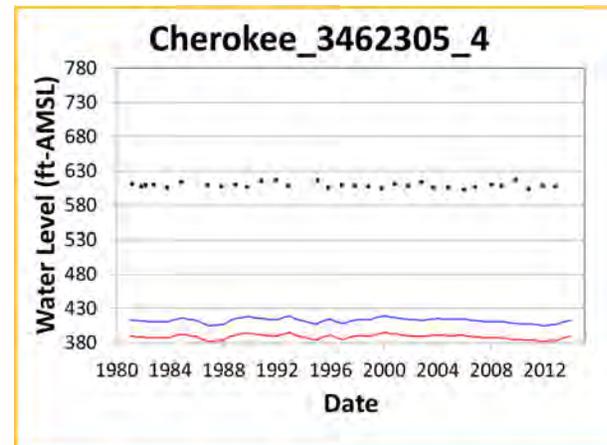
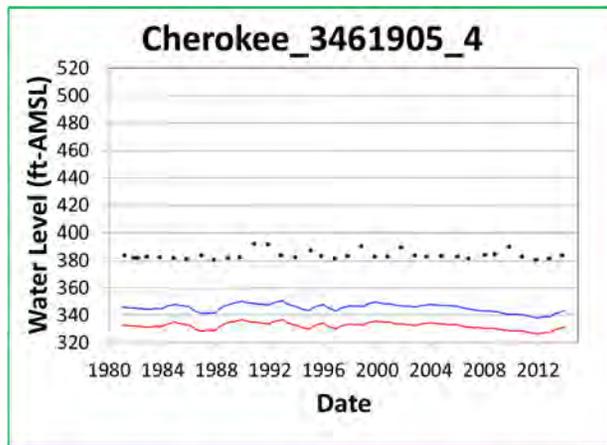
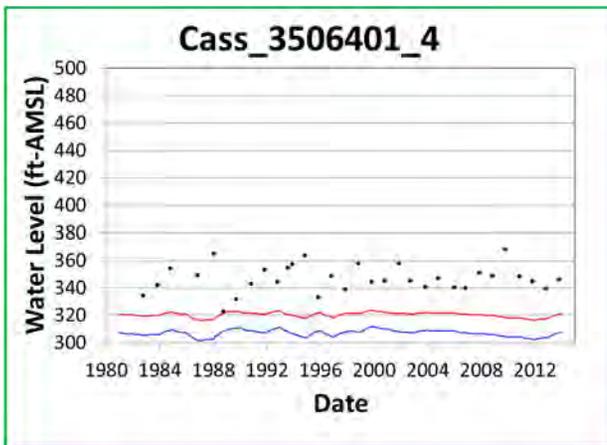
1. Select wells represent model targets with a dataset that is unweighted (data weights = 1).
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
3. Chart outline color Y-axis: yellow = 400 feet; green = 200 feet; black = 60 feet.

- Observed
- Draft Calibrated
- Final Calibrated



GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

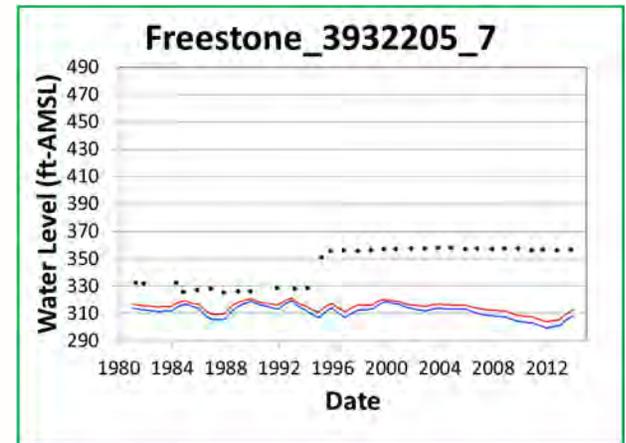
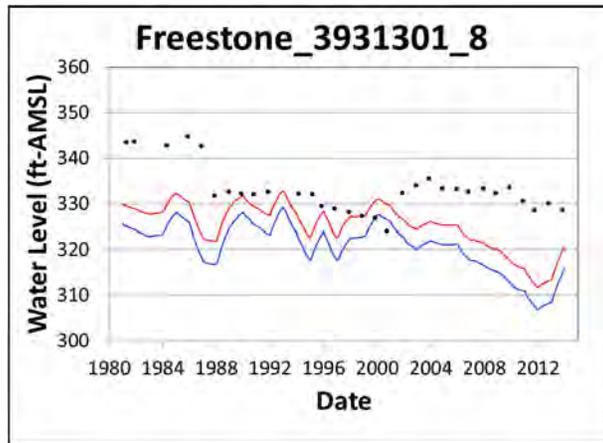
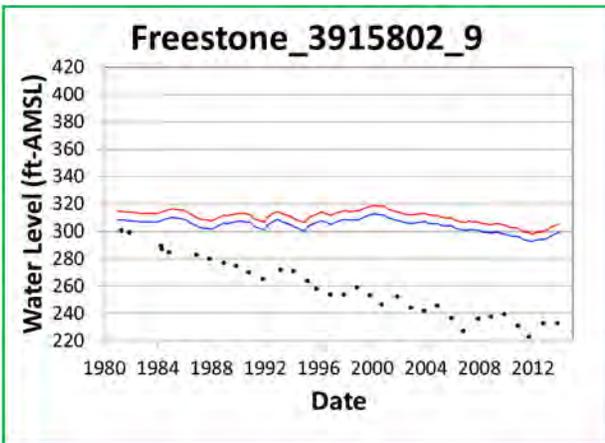
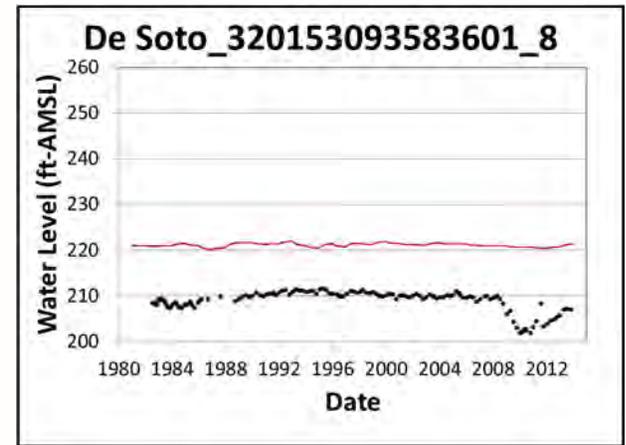
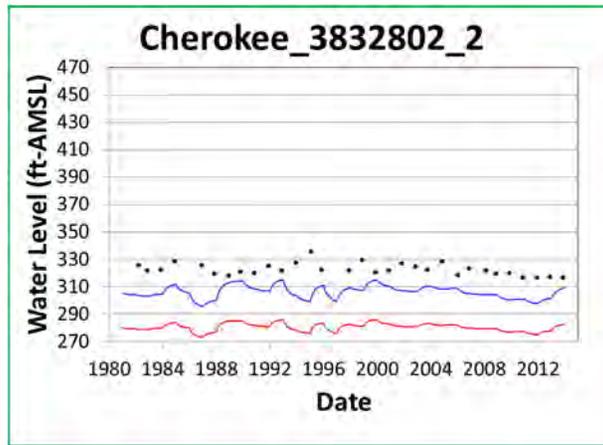
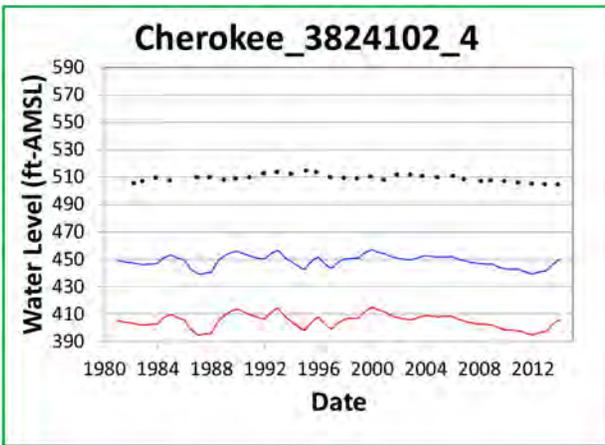
1. Select wells represent model targets with a dataset that is unweighted (data weights = 1).
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
3. Chart outline color Y-axis: yellow = 400 feet; green = 200 feet; black = 60 feet.

● Observed
 — Draft Calibrated
 — Final Calibrated



GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

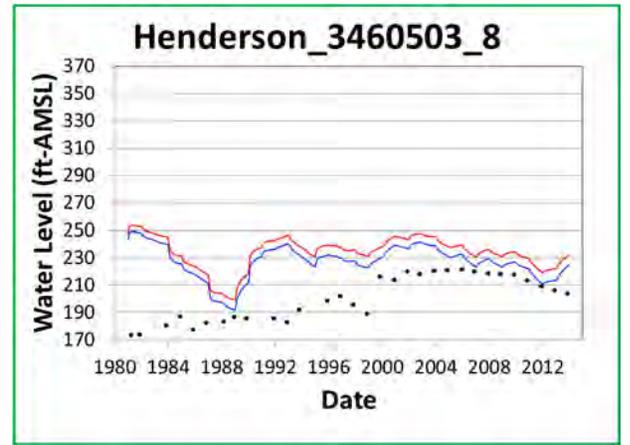
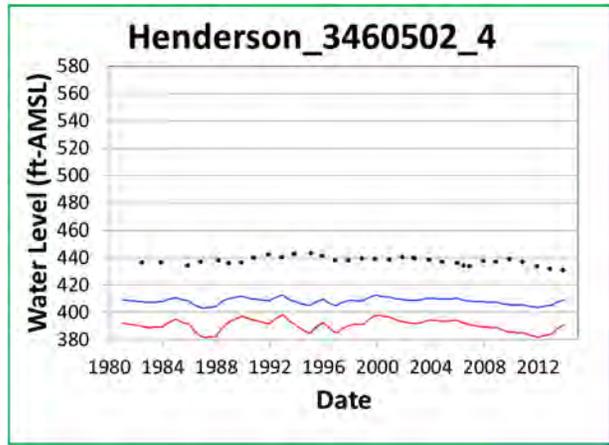
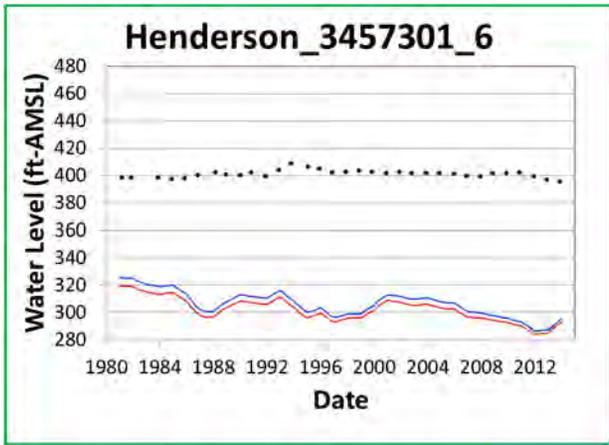
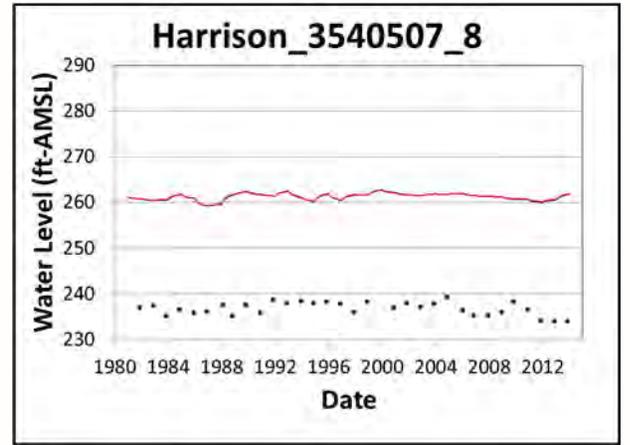
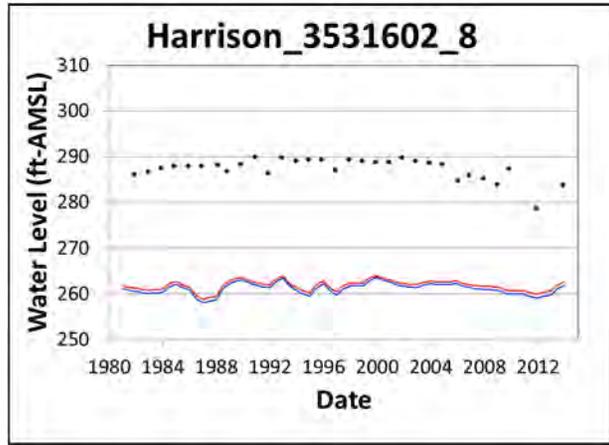
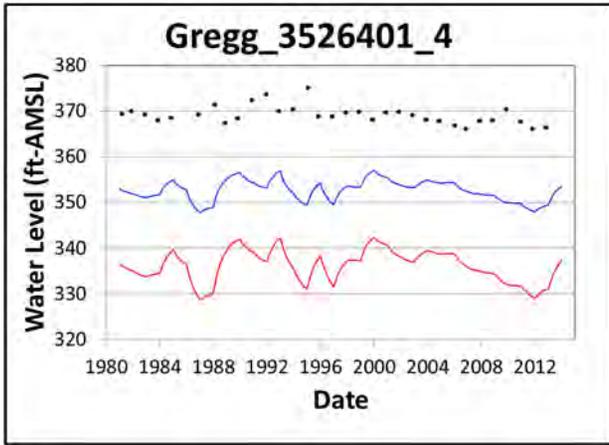
1. Select wells represent model targets with a dataset that is unweighted (data weights = 1).
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
3. Chart outline color Y-axis: yellow = 400 feet; green = 200 feet; black = 60 feet.

- Observed
- Draft Calibrated
- Final Calibrated



GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

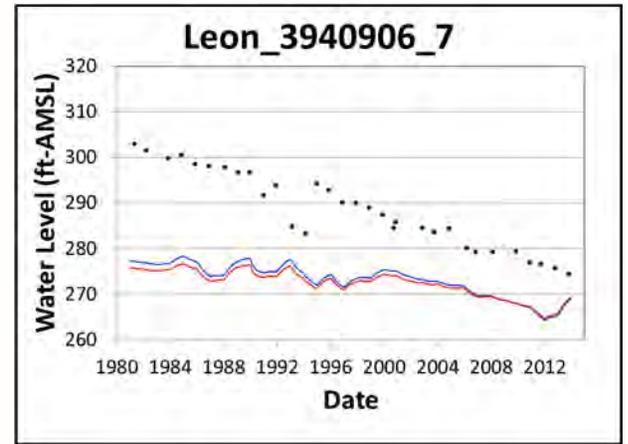
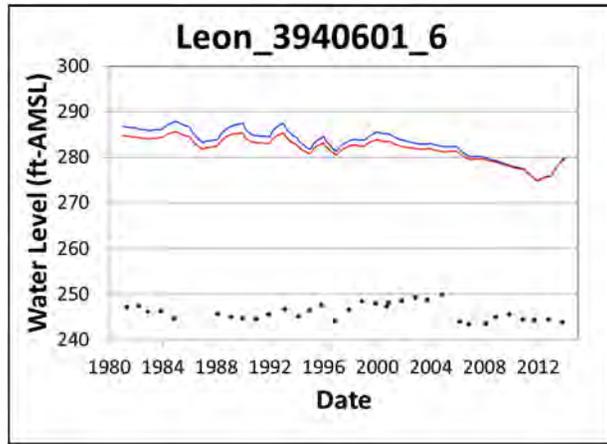
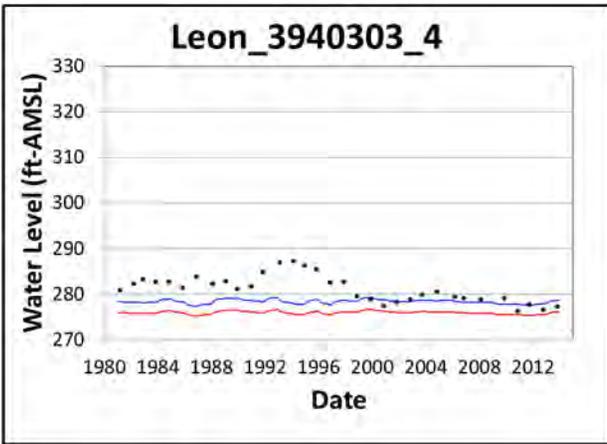
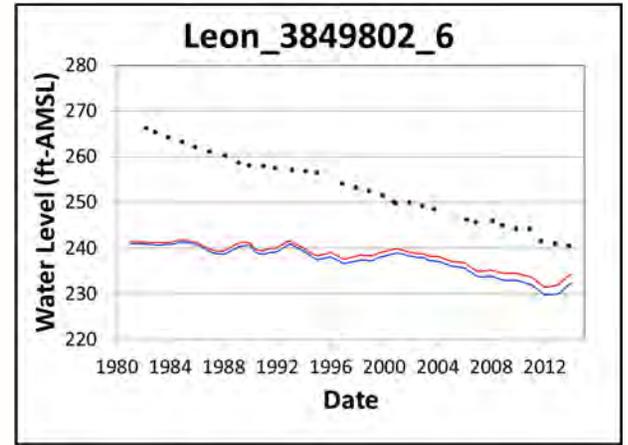
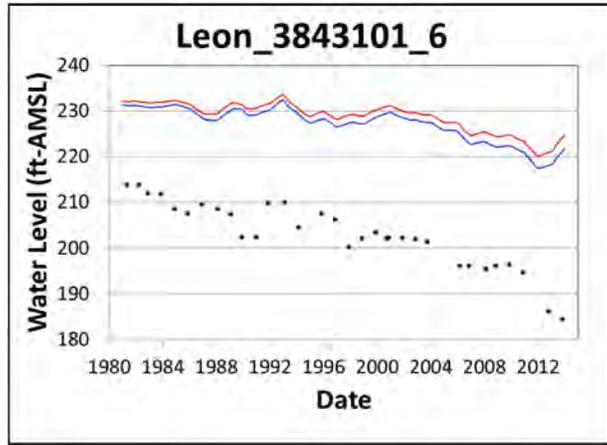
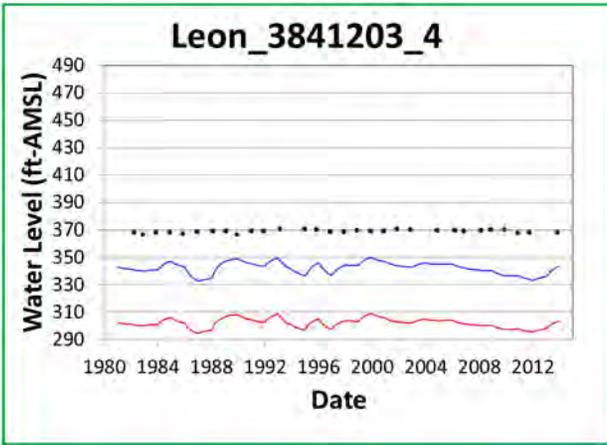
1. Select wells represent model targets with a dataset that is unweighted (data weights = 1).
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
3. Chart outline color Y-axis: yellow = 400 feet; green = 200 feet; black = 60 feet.

- Observed
- Draft Calibrated
- Final Calibrated



GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

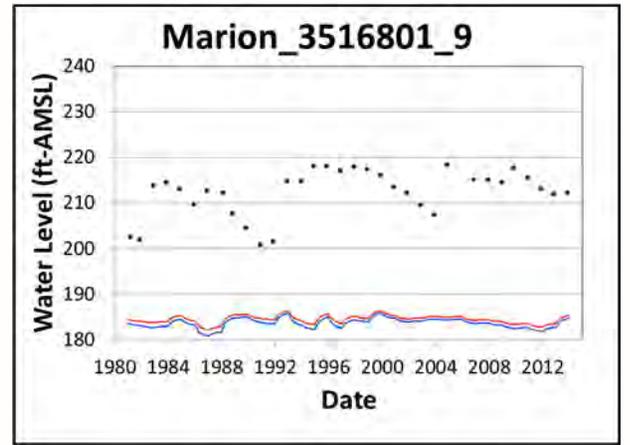
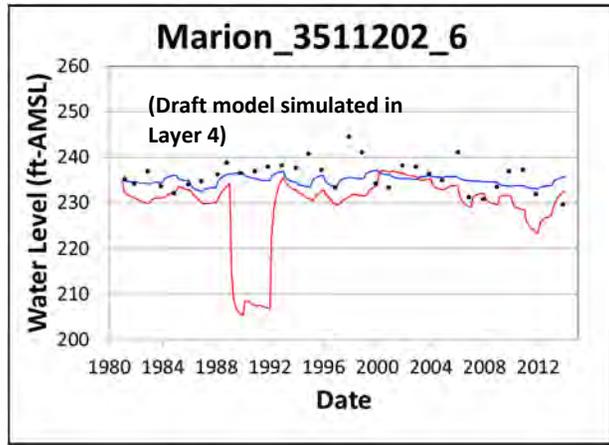
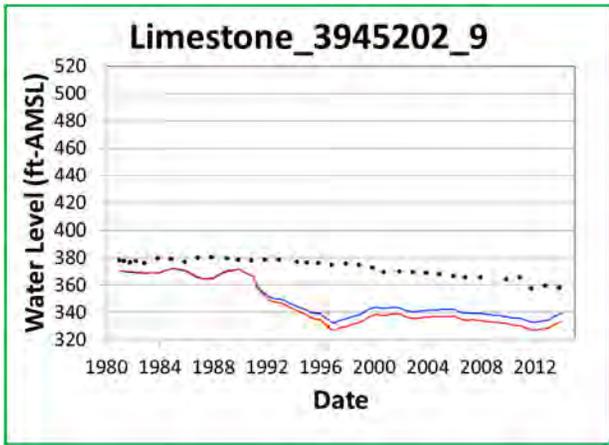
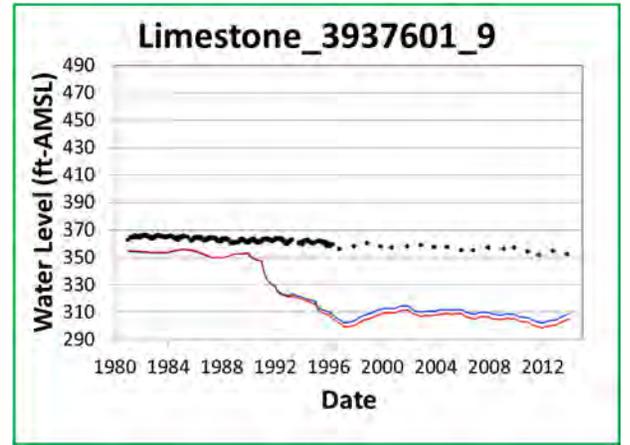
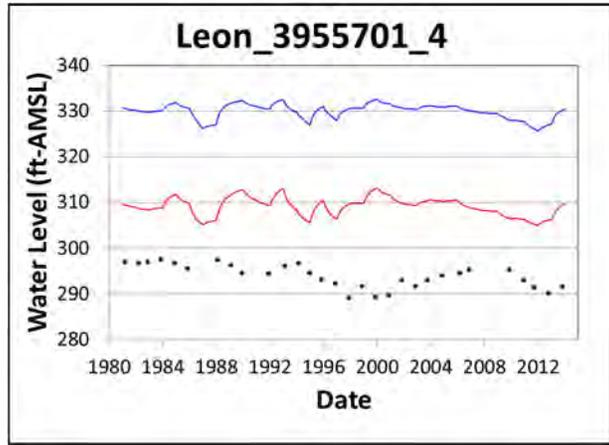
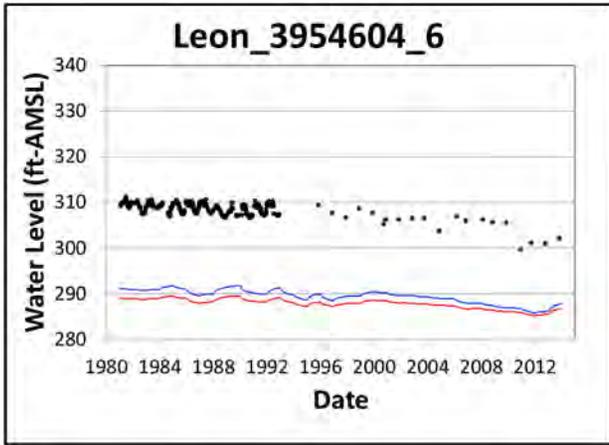
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Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

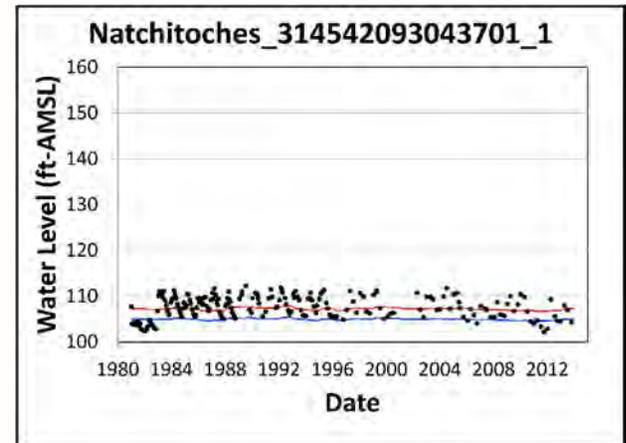
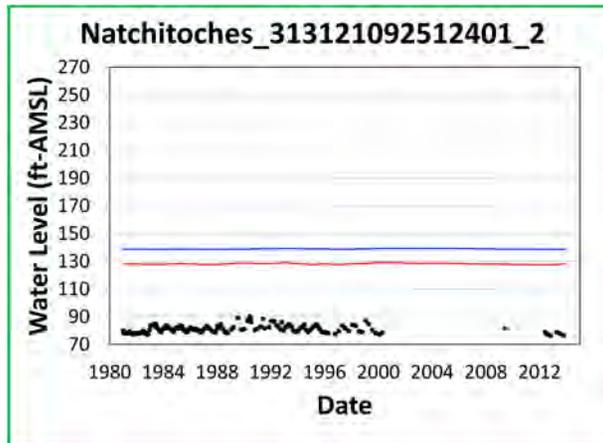
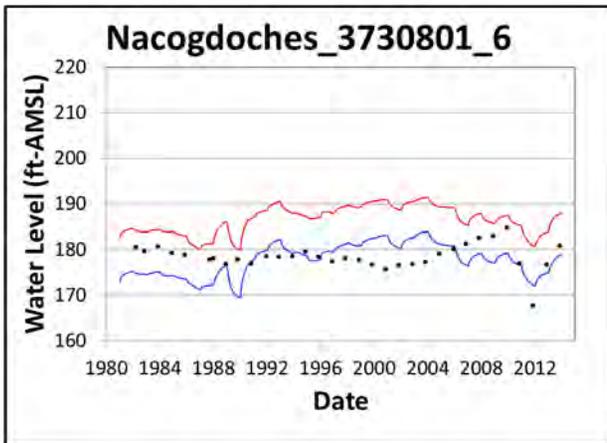
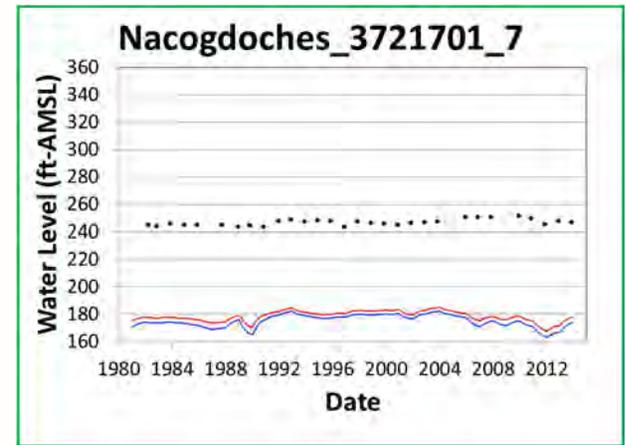
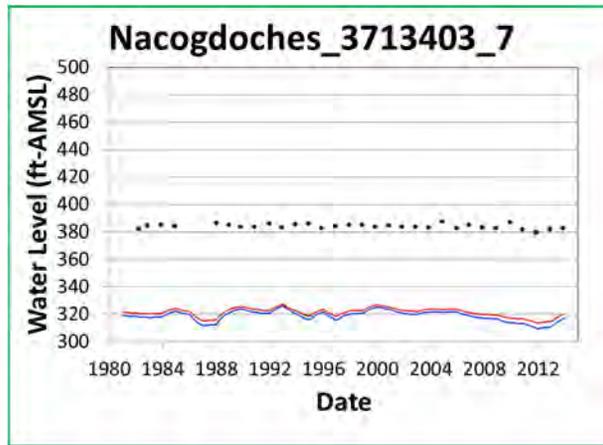
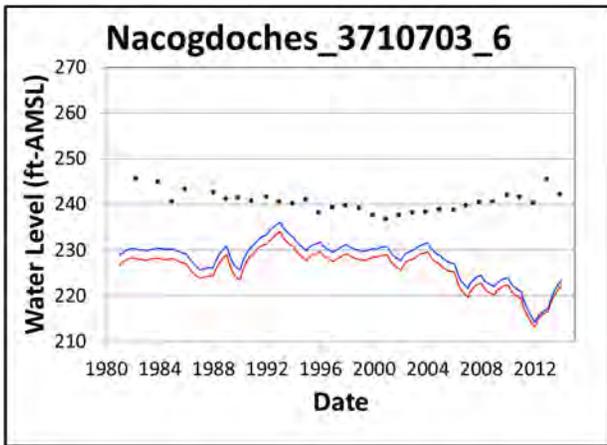
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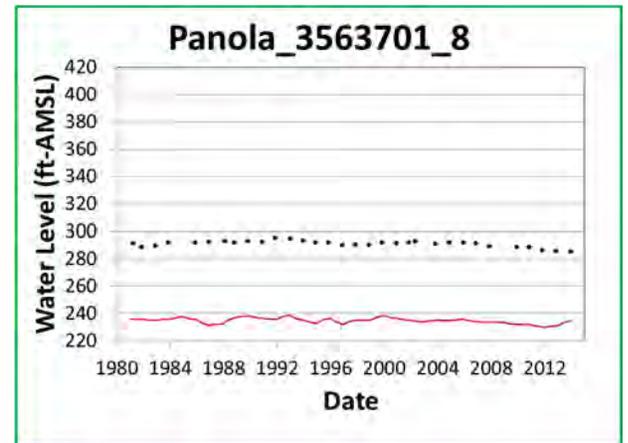
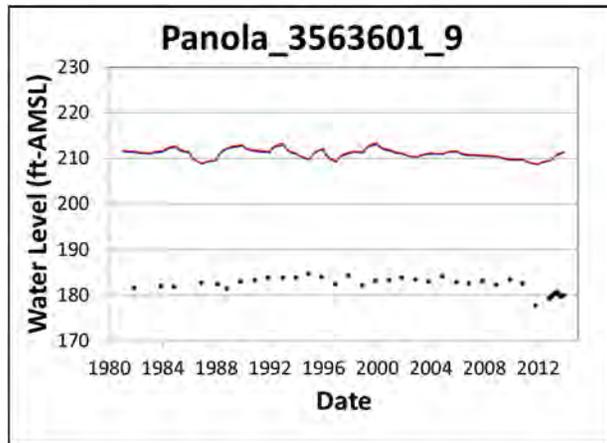
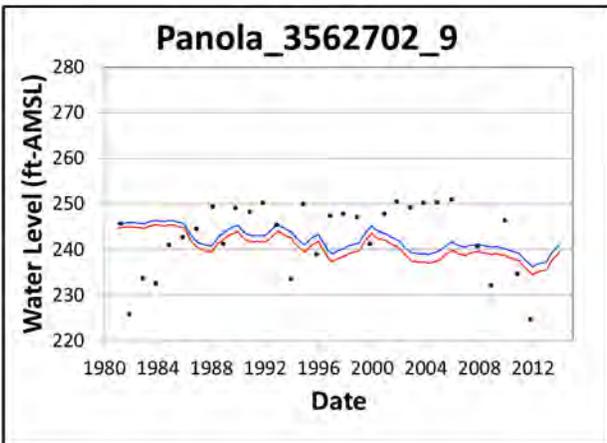
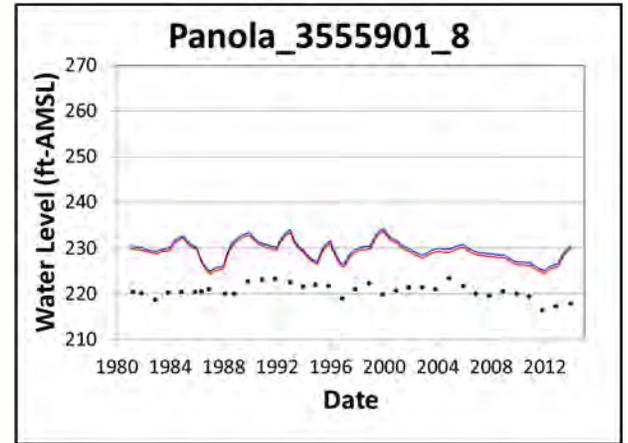
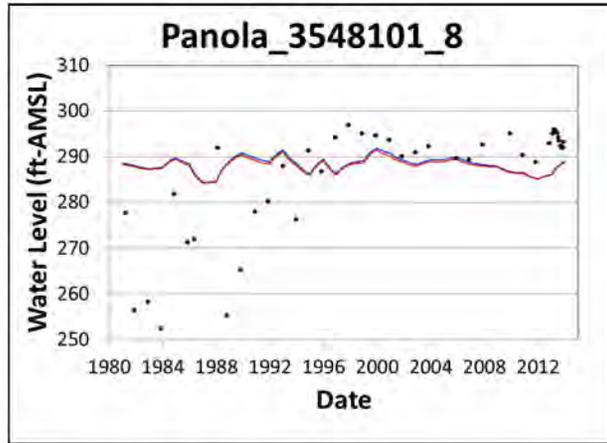
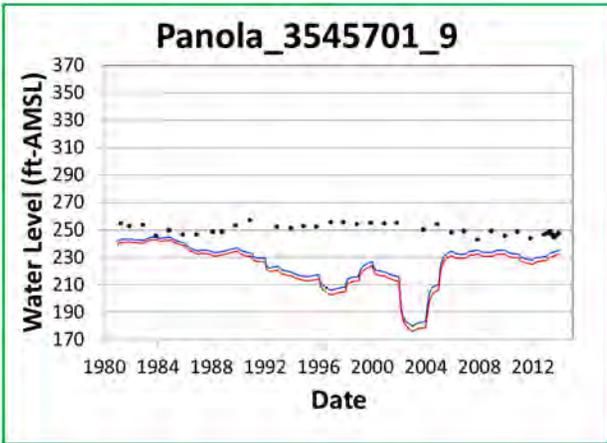
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Appendix B – Hydrographs for Select Target Wells



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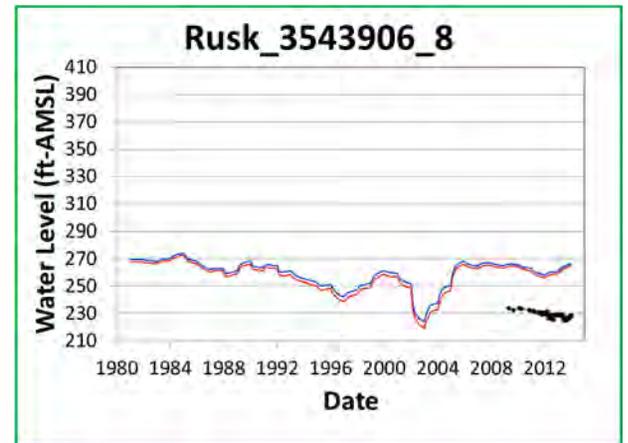
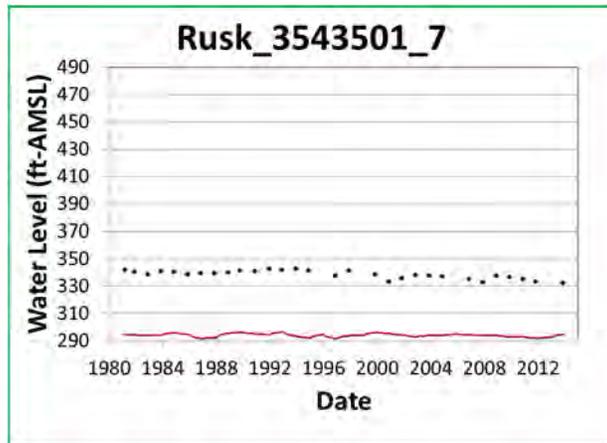
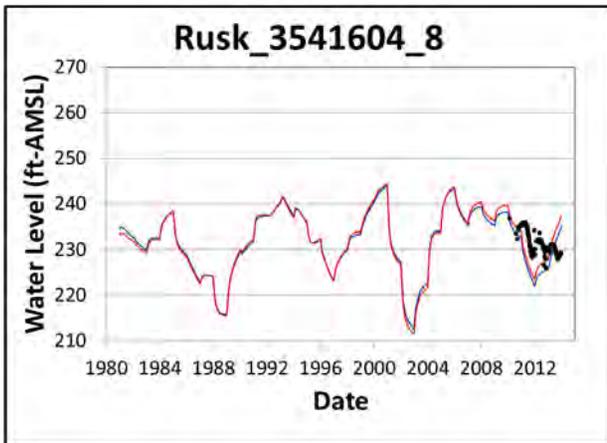
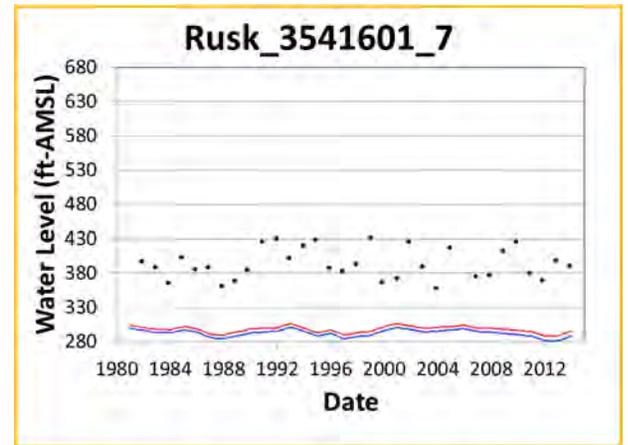
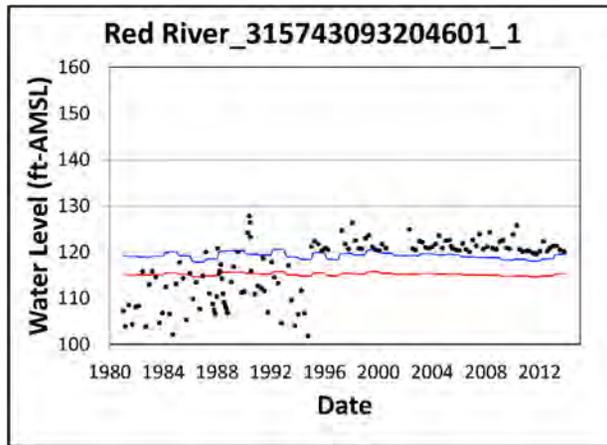
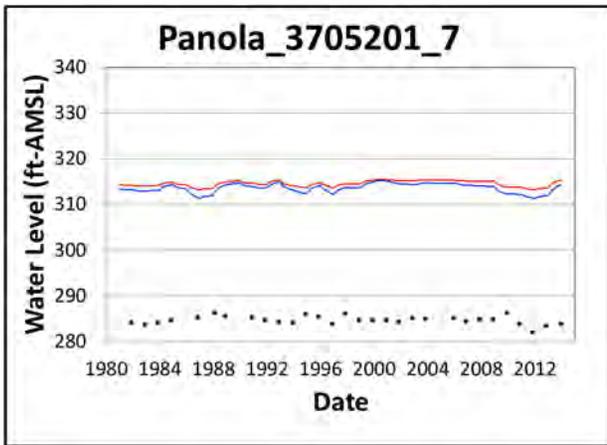
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Appendix B – Hydrographs for Select Target Wells



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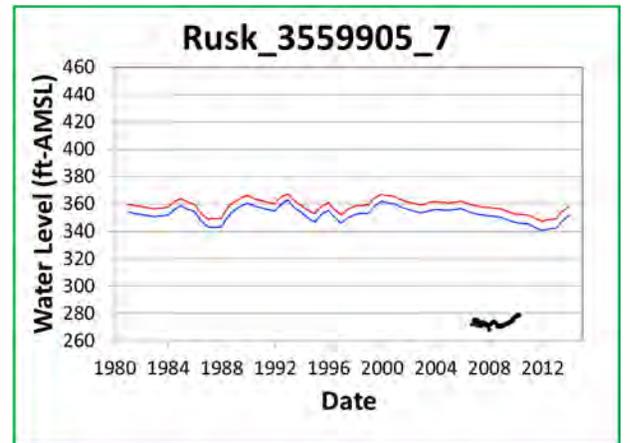
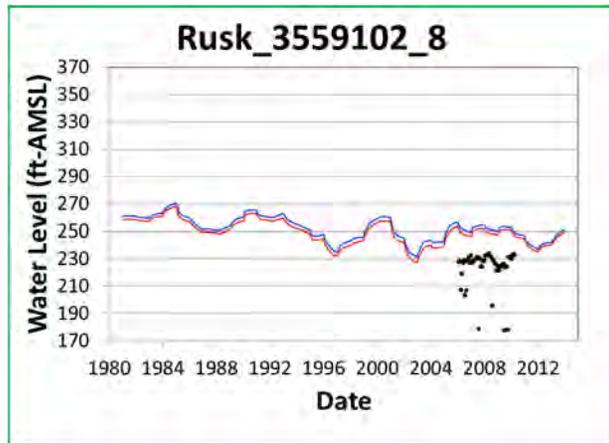
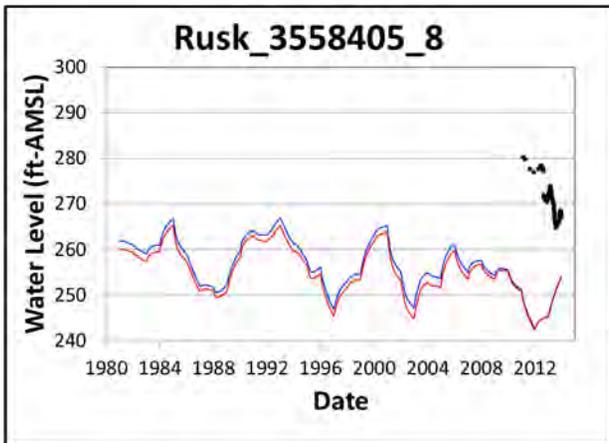
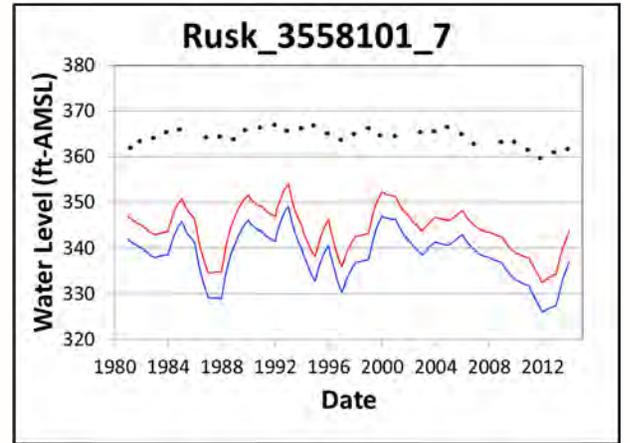
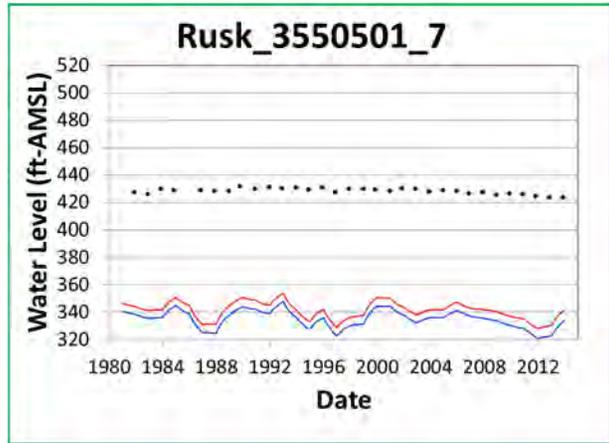
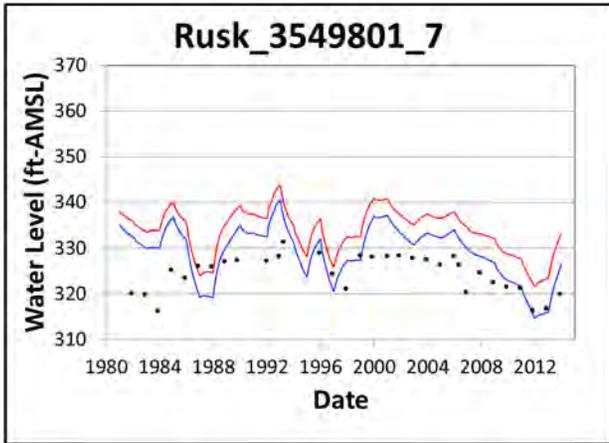
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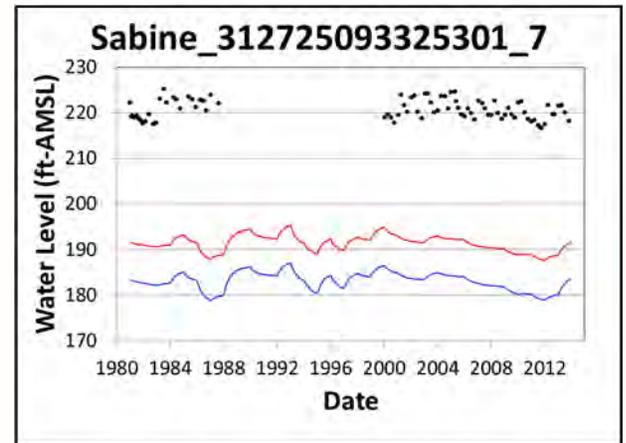
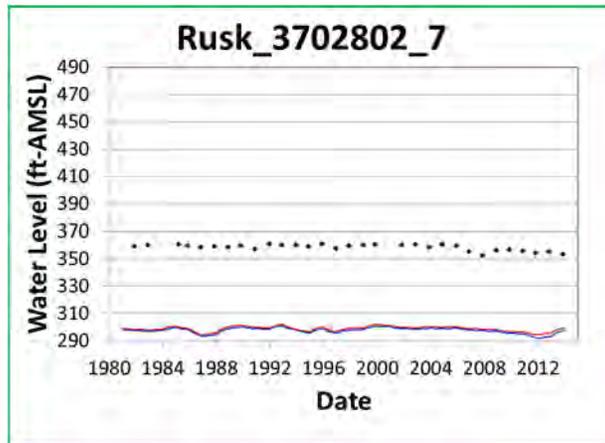
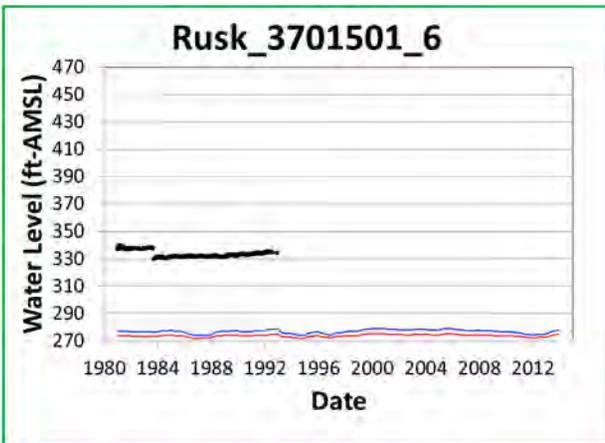
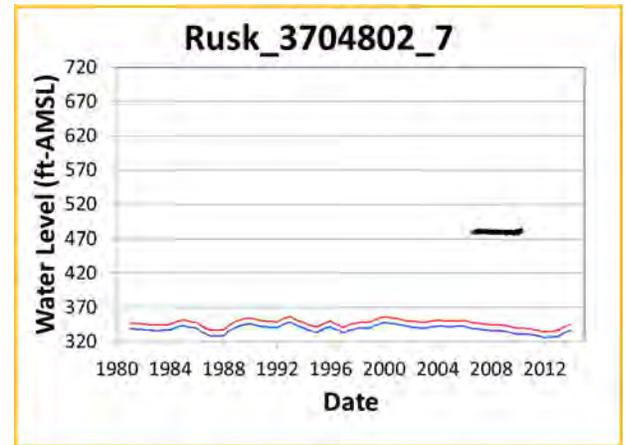
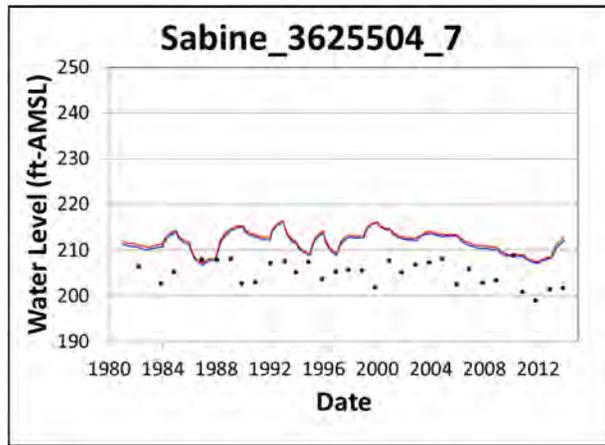
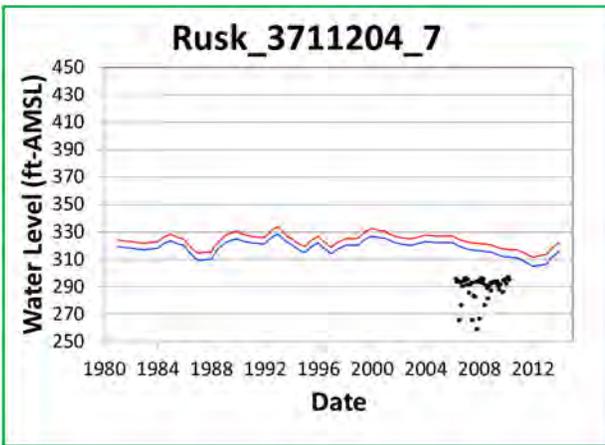
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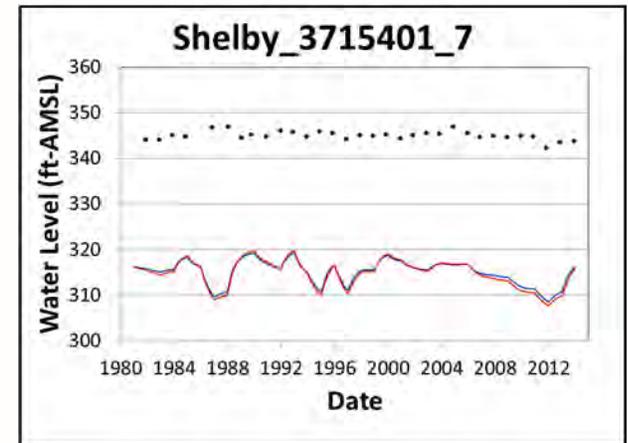
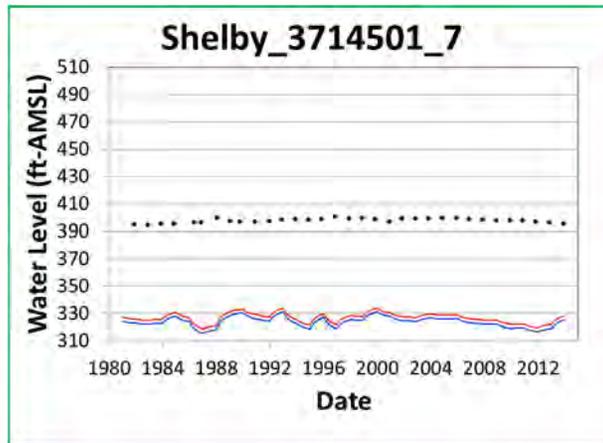
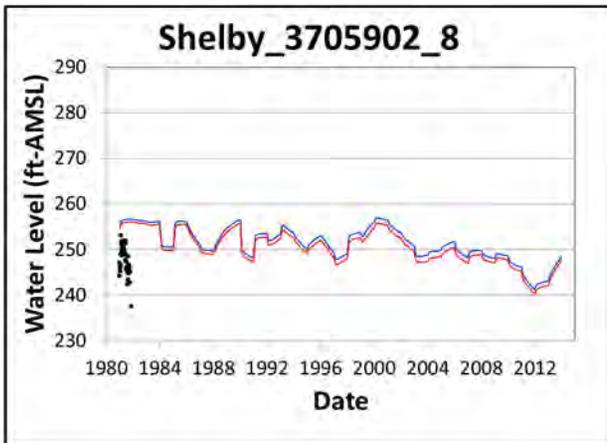
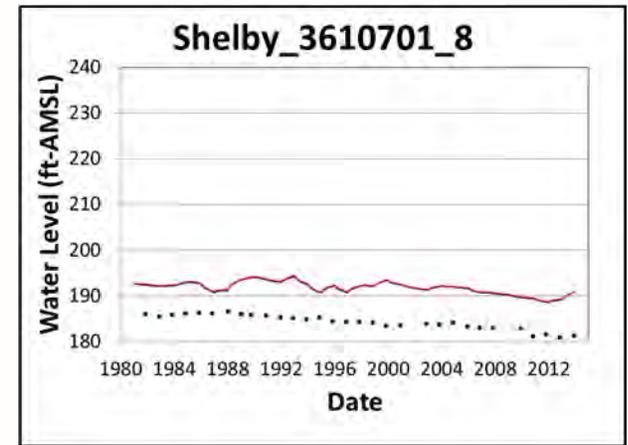
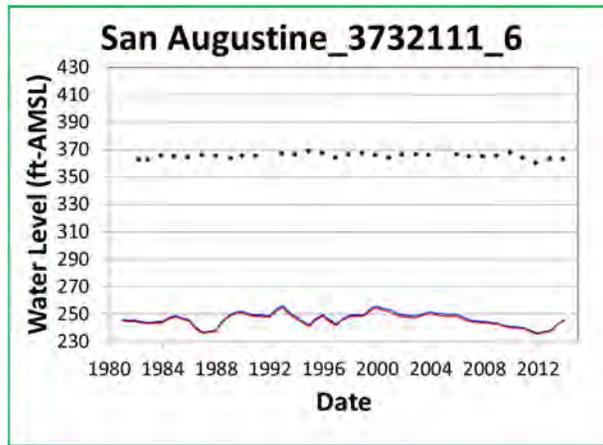
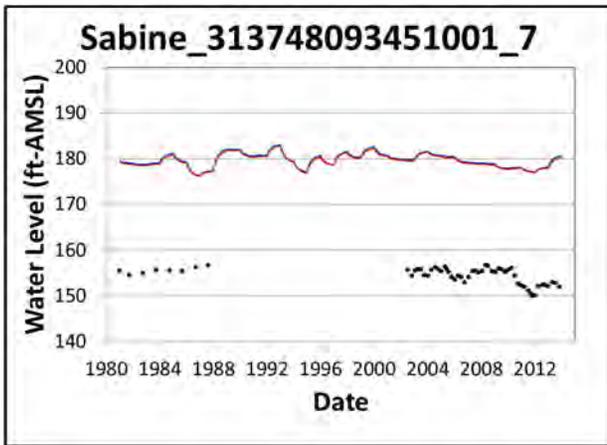
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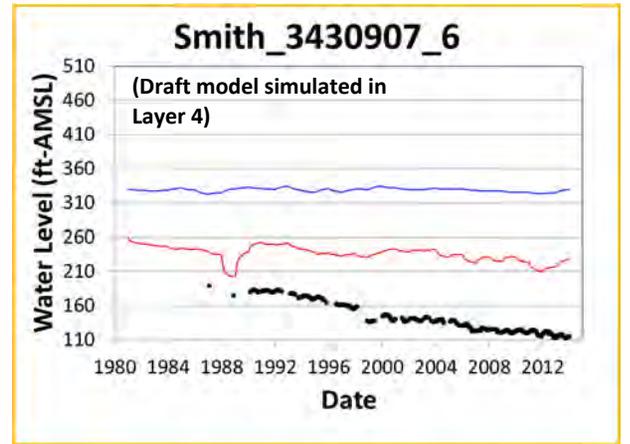
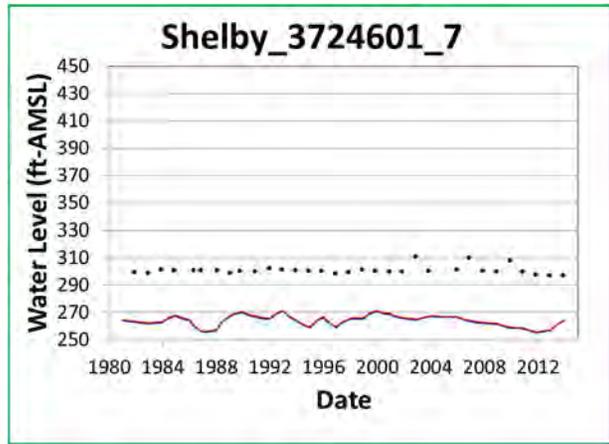
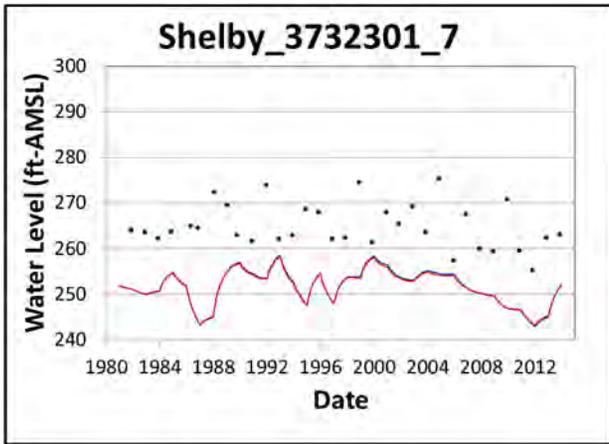
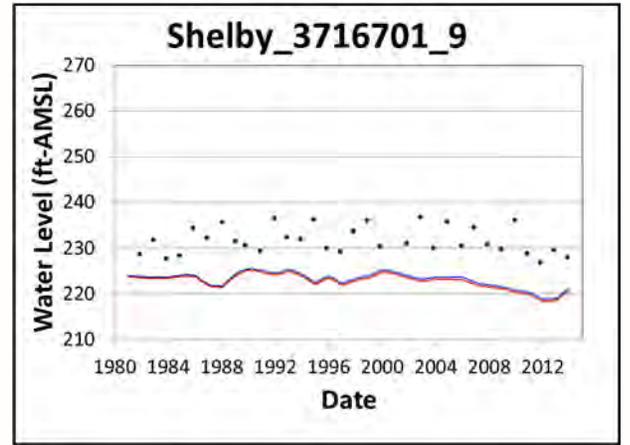
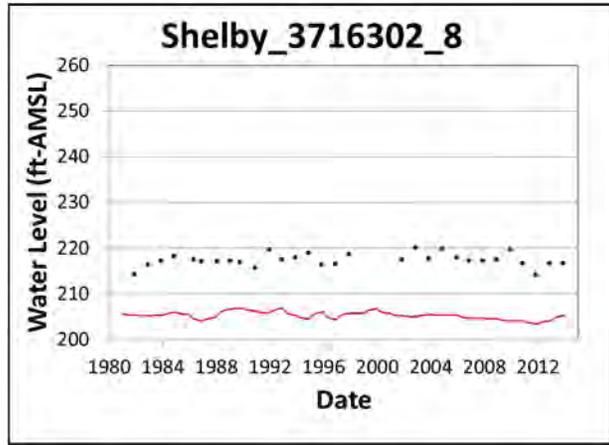
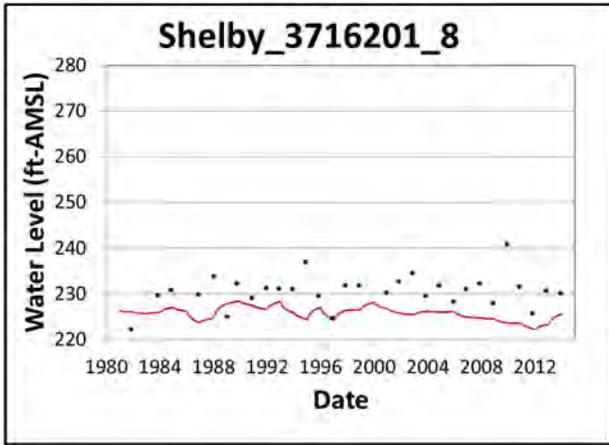
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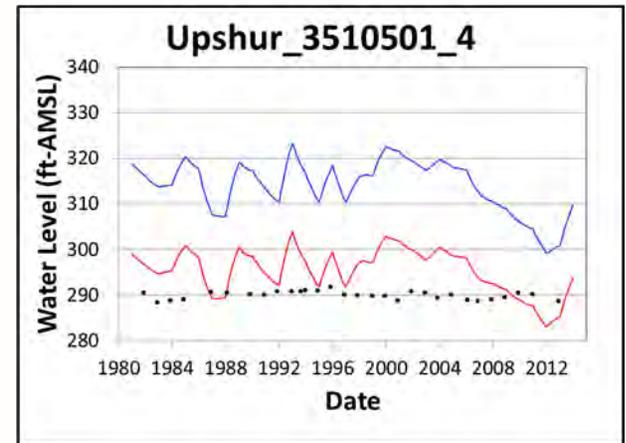
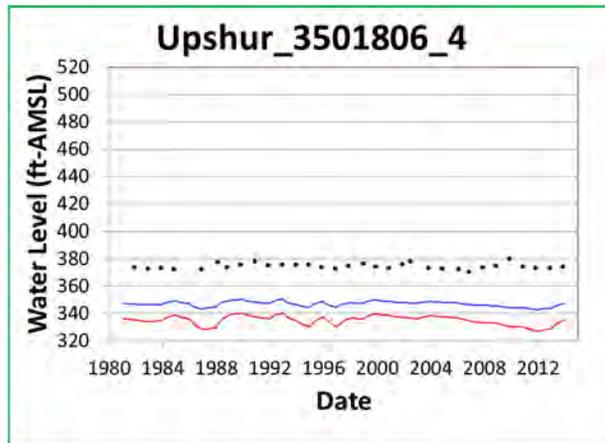
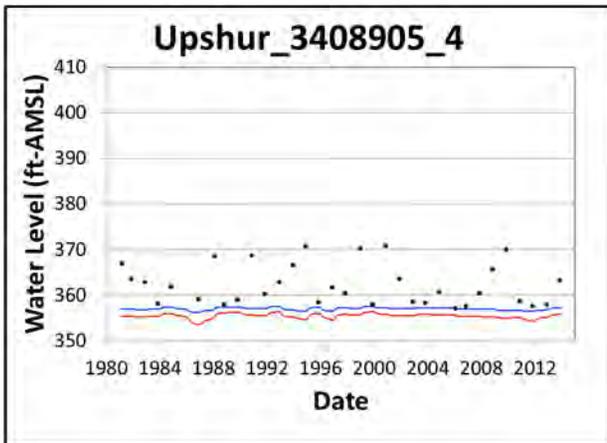
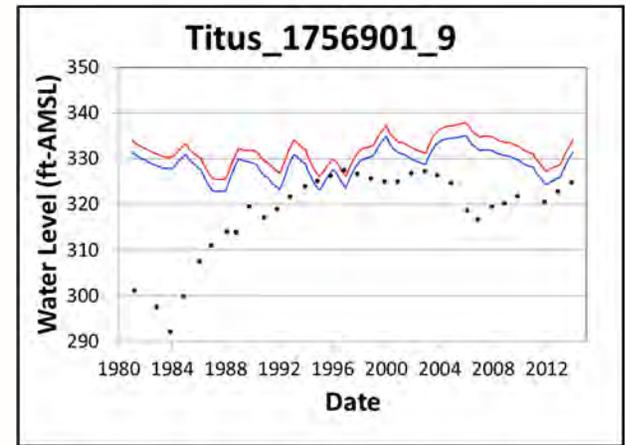
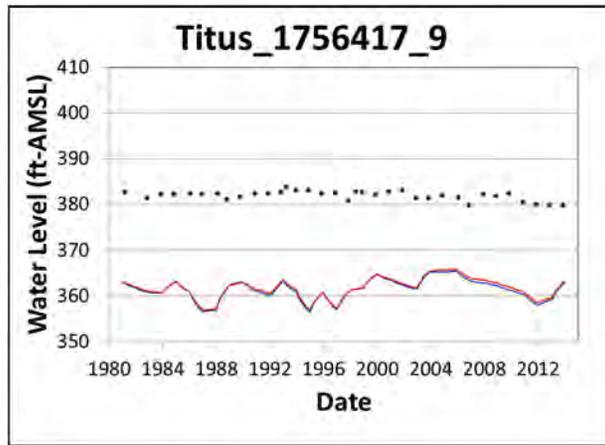
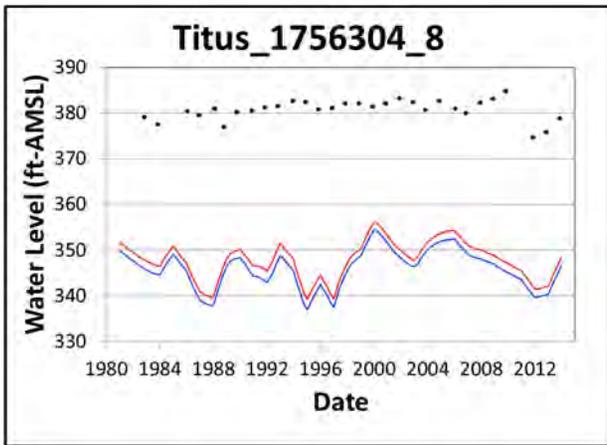
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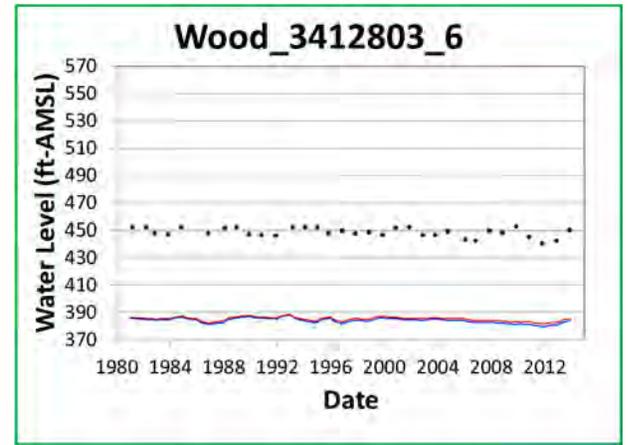
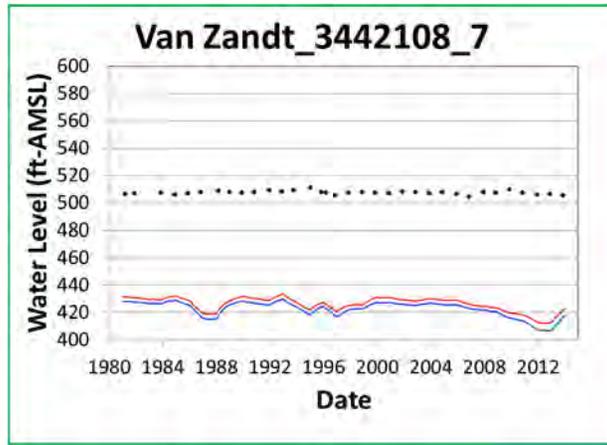
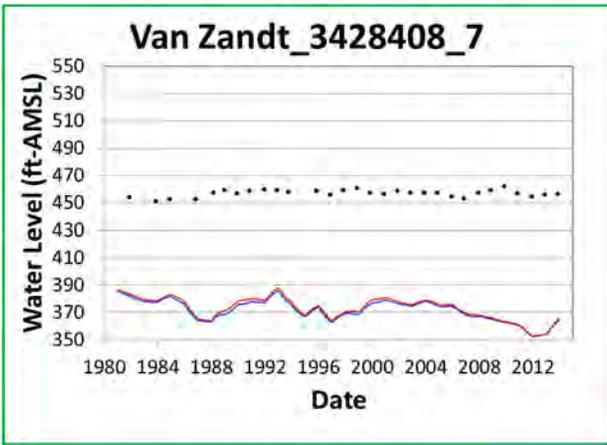
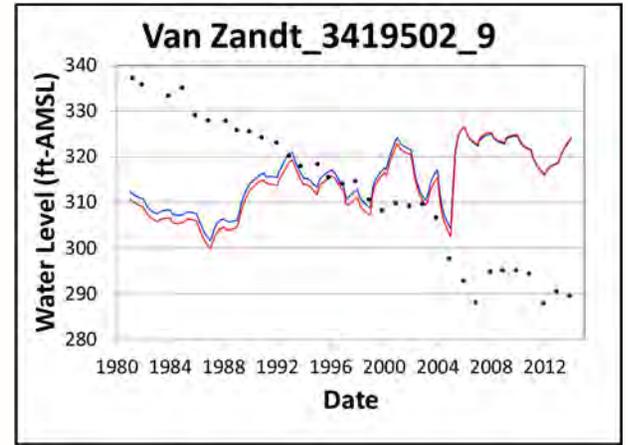
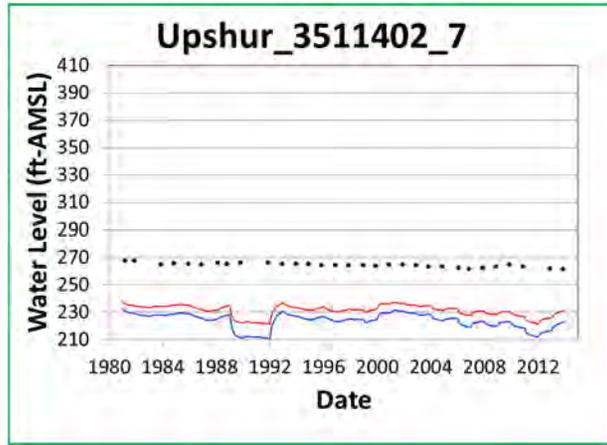
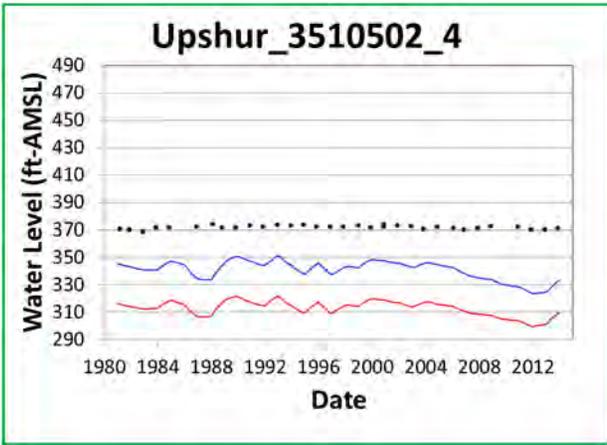
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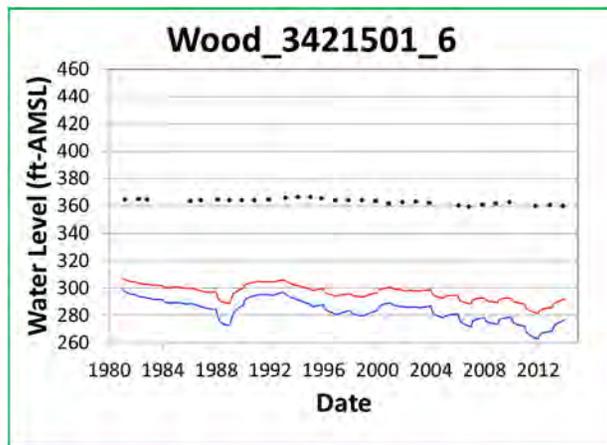
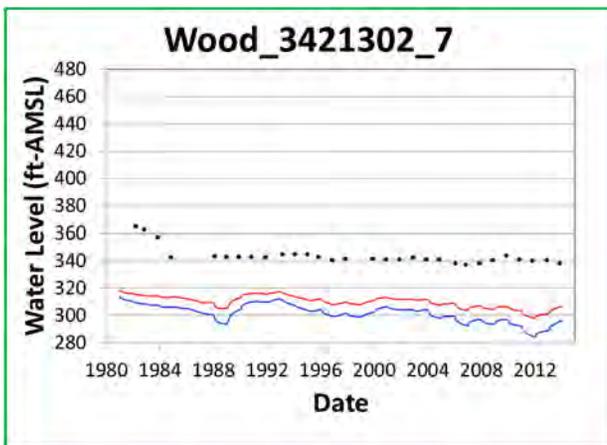
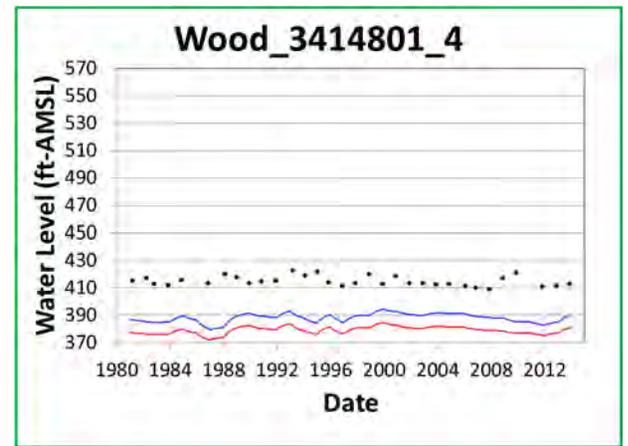
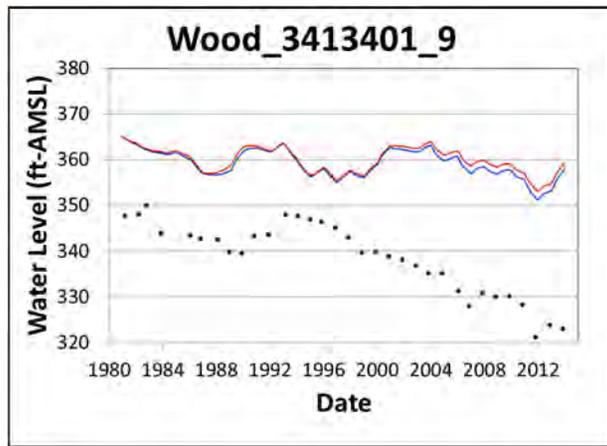
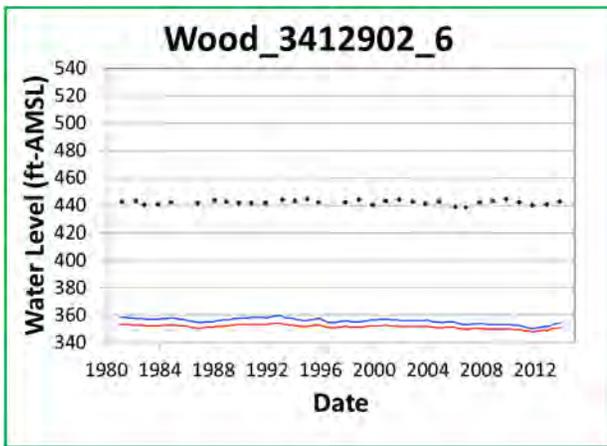
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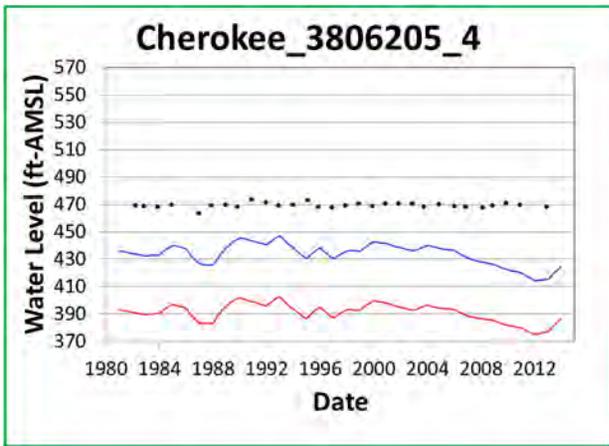
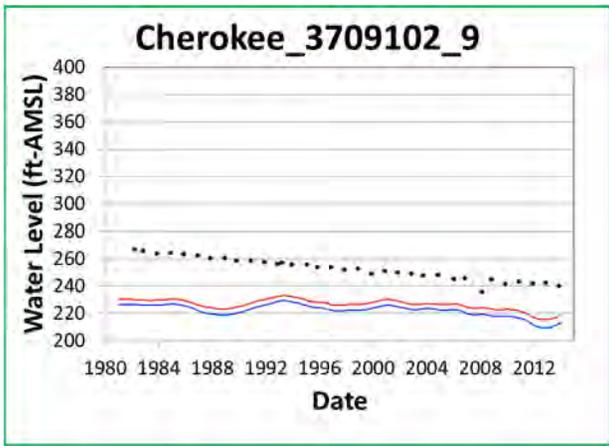
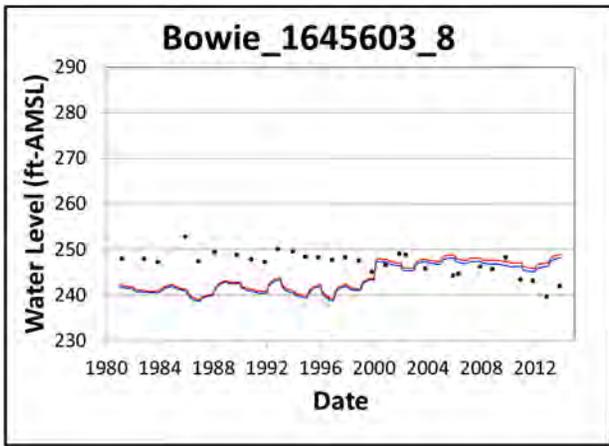
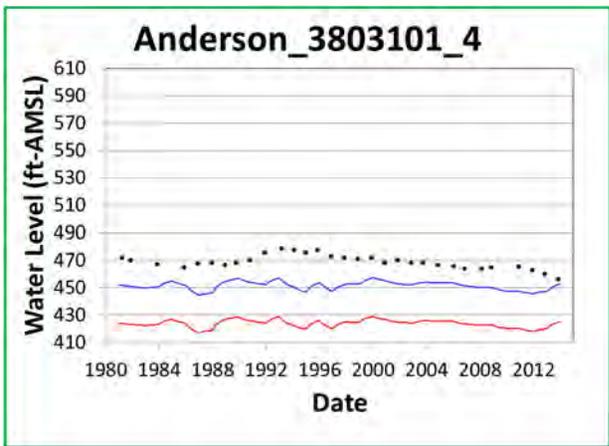
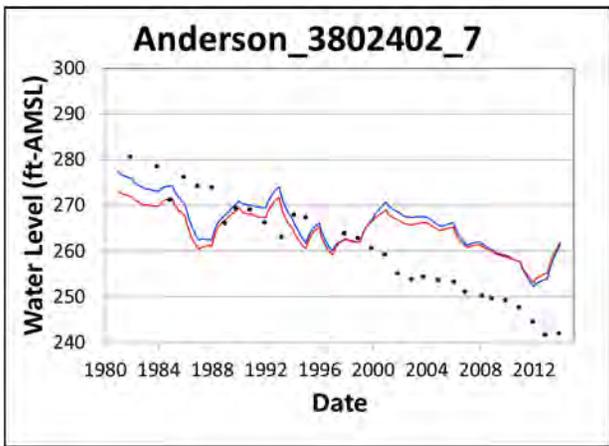
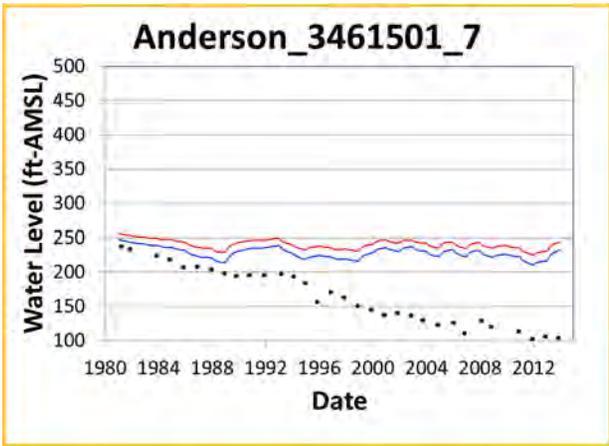
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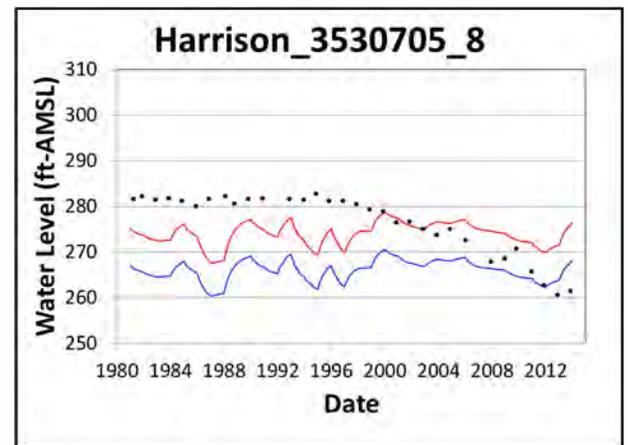
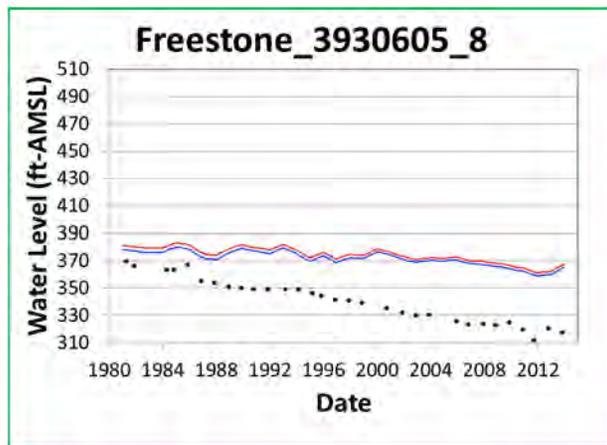
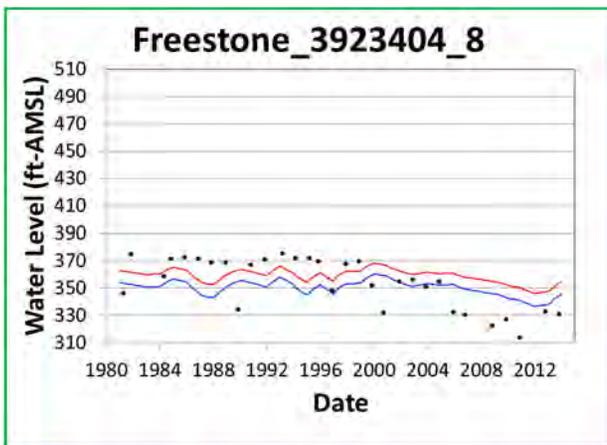
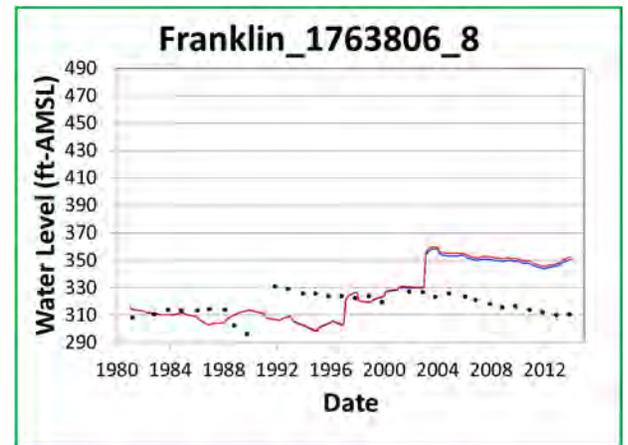
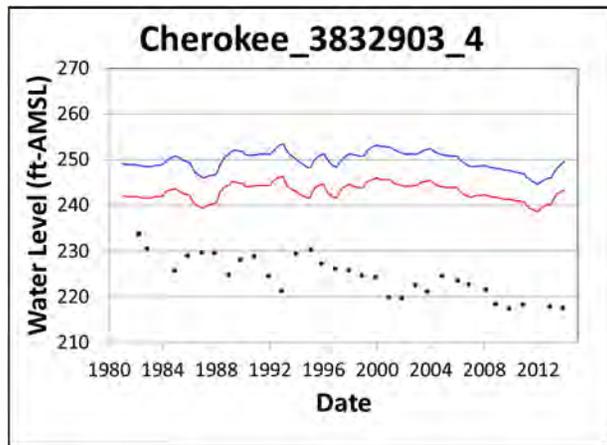
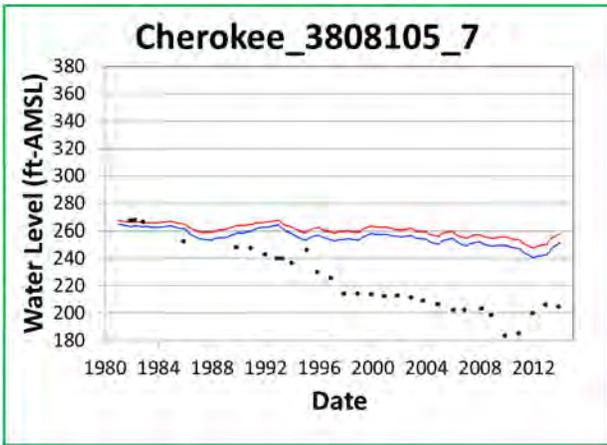
1. Select wells present model targets with a dataset of 30 or more measurements and weights.
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
3. Chart outline color Y-axis: yellow = 400 feet; green = 200 feet; black = 60 feet.

● Observed
 — Draft Calibrated
 — Final Calibrated



GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

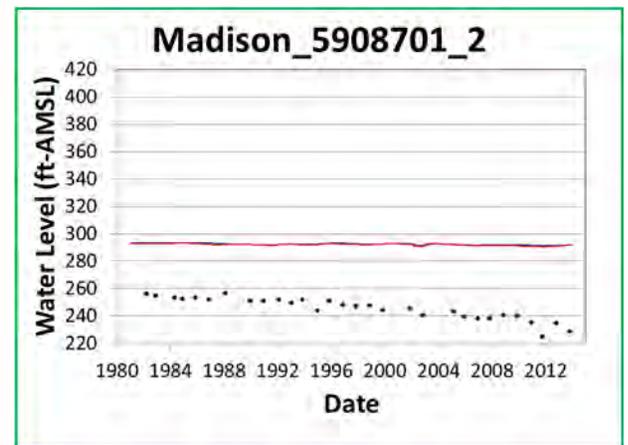
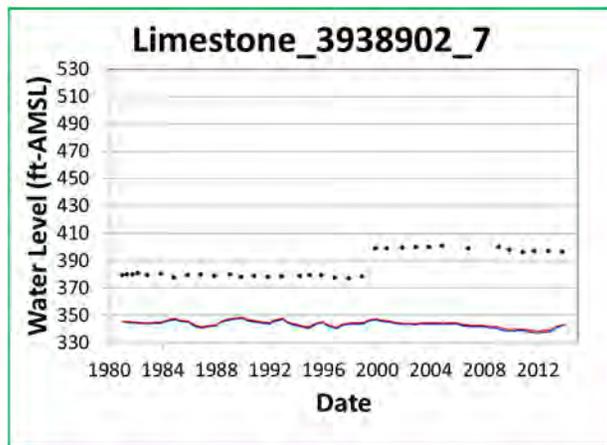
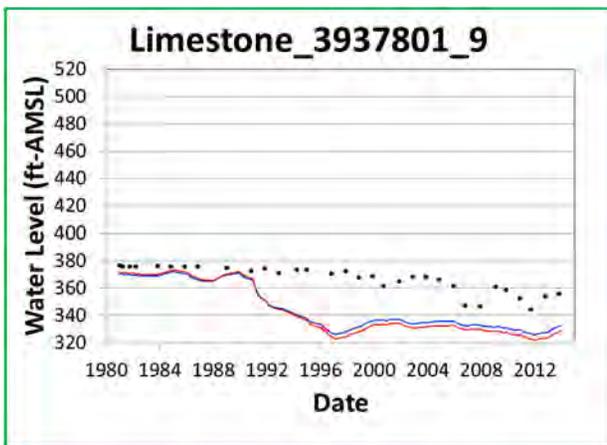
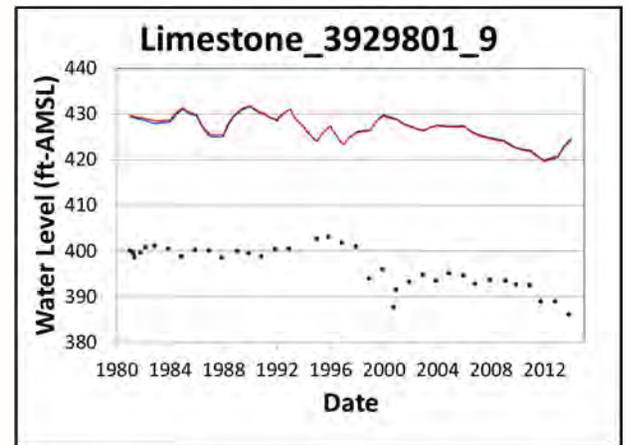
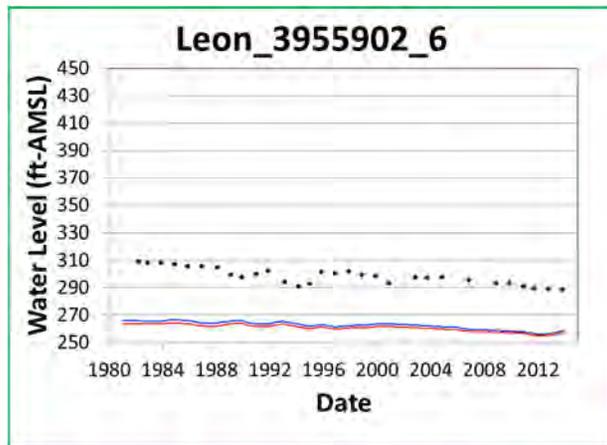
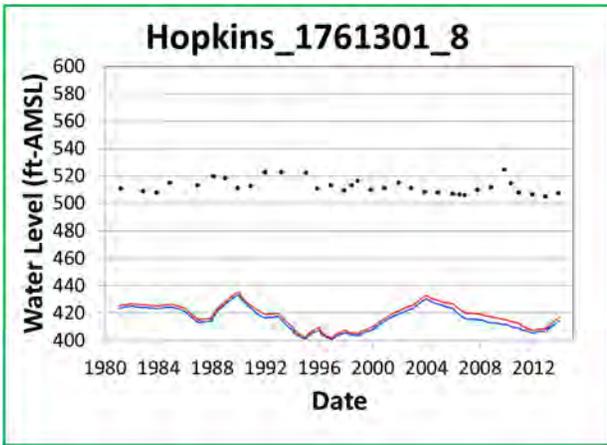
1. Select wells present model targets with a dataset of 30 or more measurements and weights.
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
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- Draft Calibrated
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GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

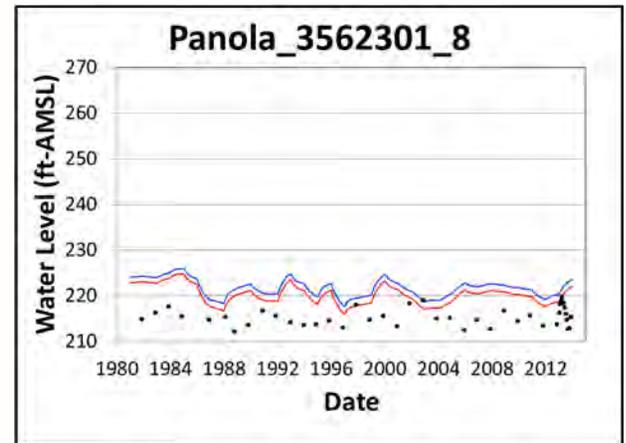
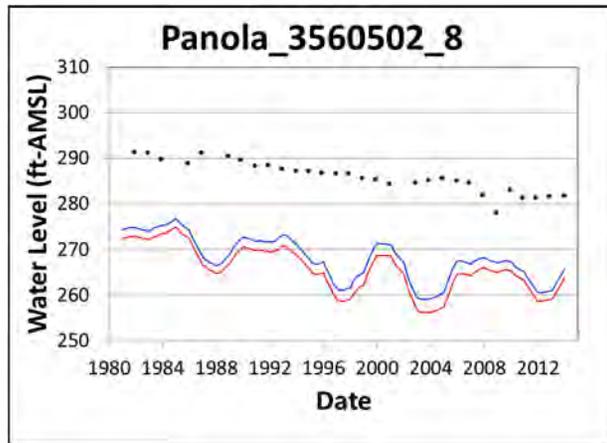
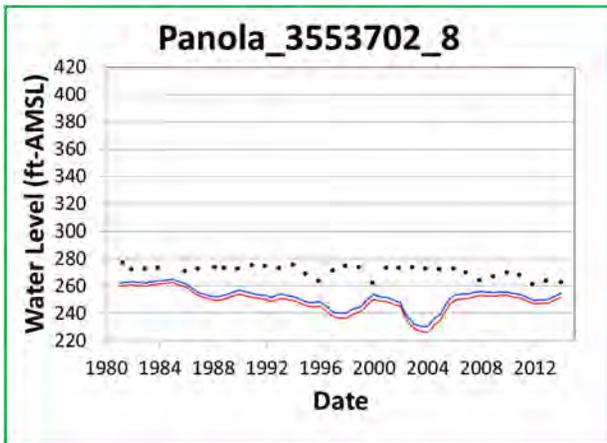
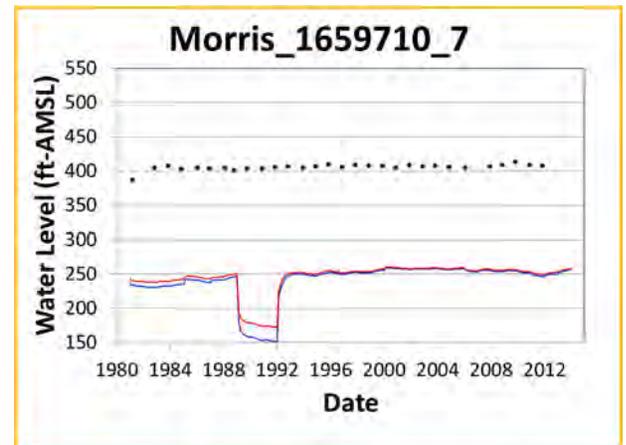
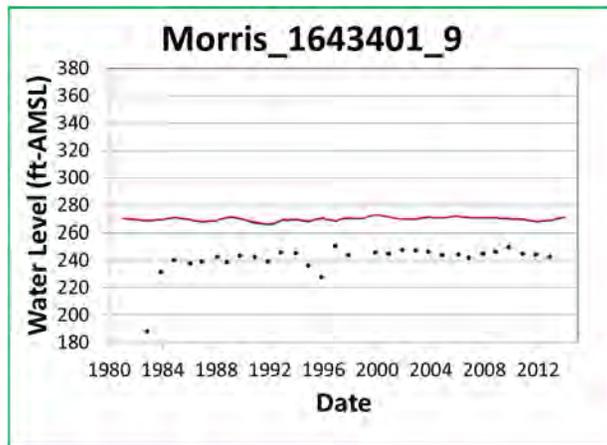
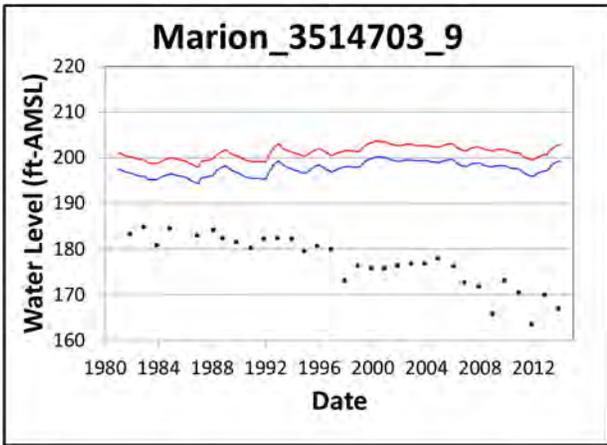
1. Select wells present model targets with a dataset of 30 or more measurements and weights.
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
3. Chart outline color Y-axis: yellow = 400 feet; green = 200 feet; black = 60 feet.

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GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
Scale:			

Appendix B – Hydrographs for Select Target Wells



Notes:

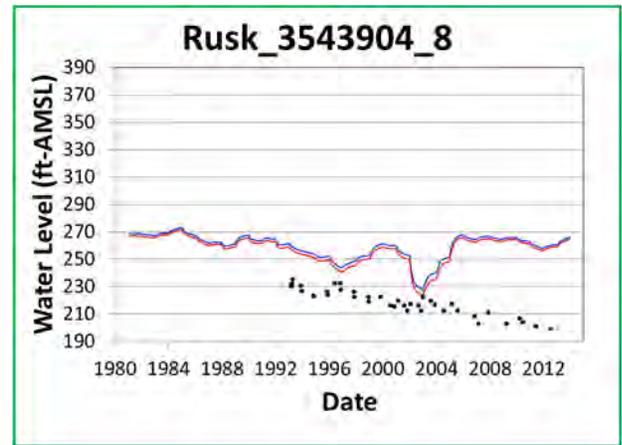
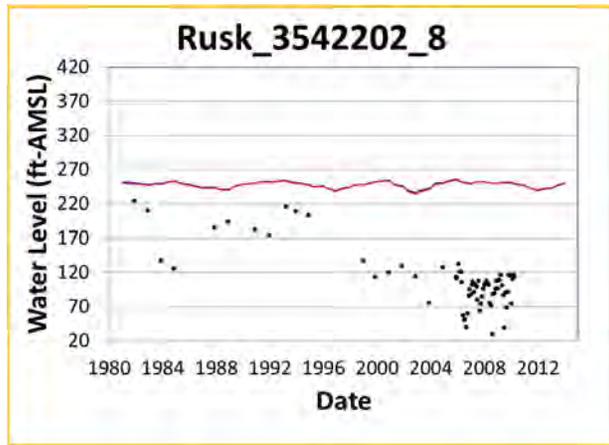
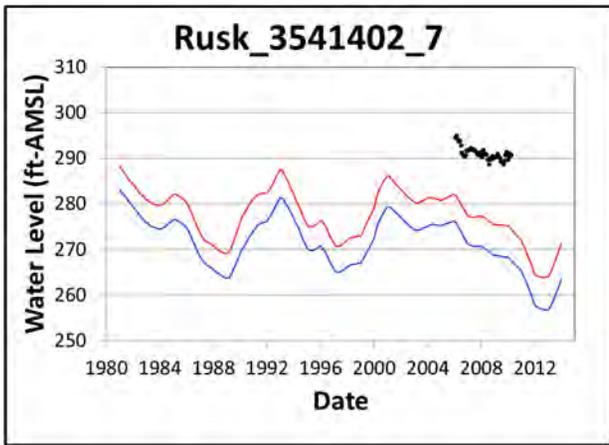
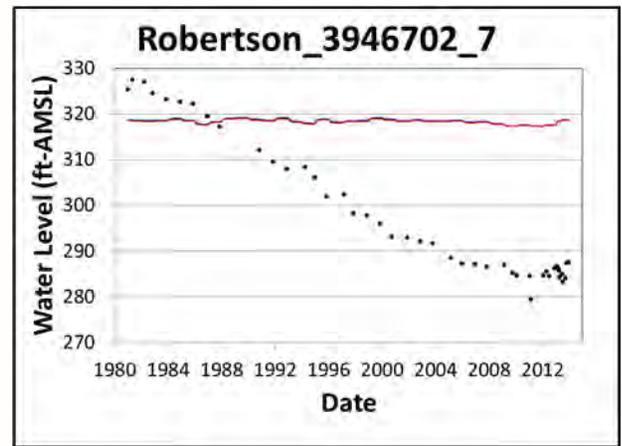
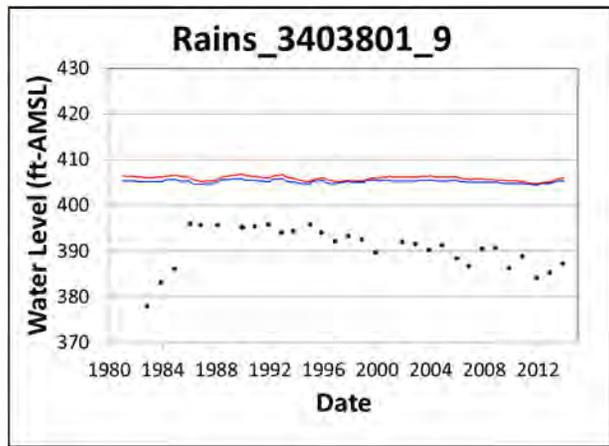
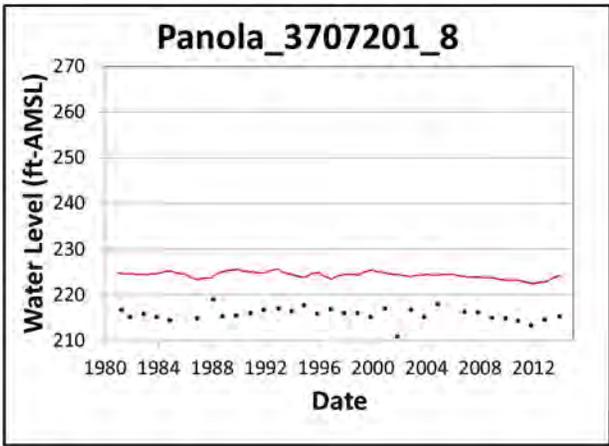
1. Select wells present model targets with a dataset of 30 or more measurements and weights.
2. Chart name: county name, well name, model layer; ft-AMSL = feet above mean sea level.
3. Chart outline color Y-axis: yellow = 400 feet; green = 200 feet; black = 60 feet.

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GSI Job No.	4529	Drawn By:	HMH
Issued:	2020/11/05	Chk'd By:	
Revised:		Aprv'd By:	
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Appendix B – Hydrographs for Select Target Wells



Notes:

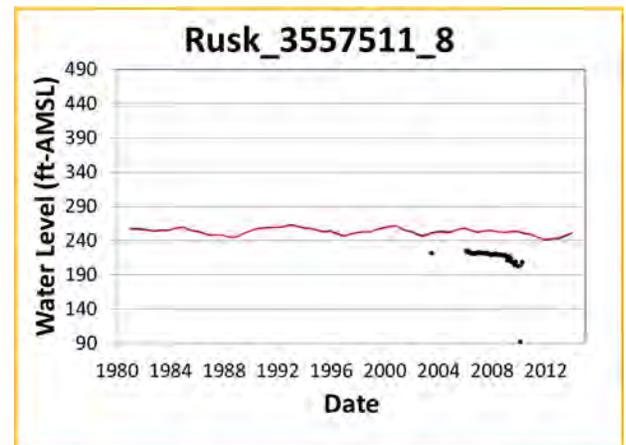
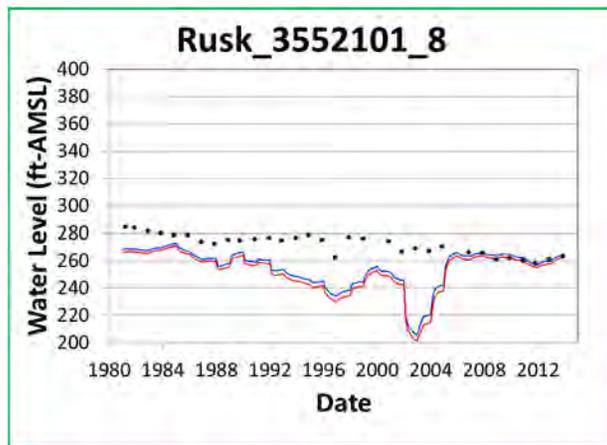
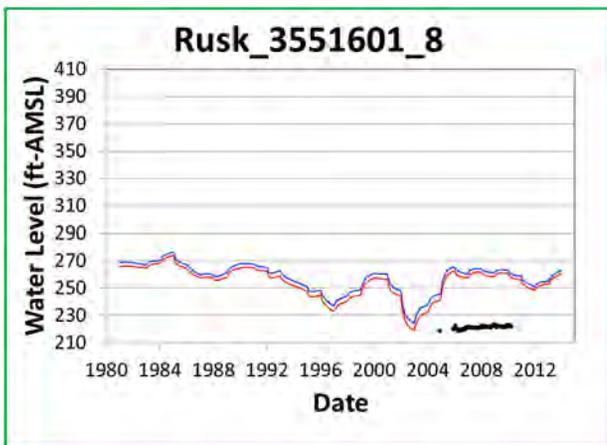
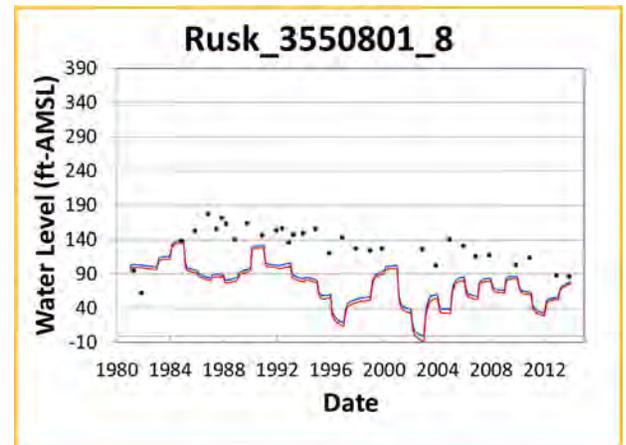
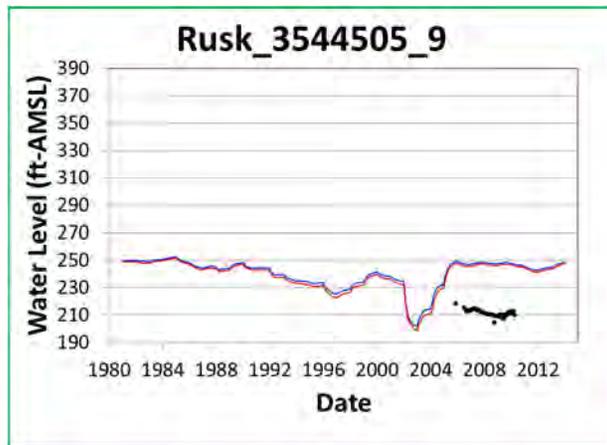
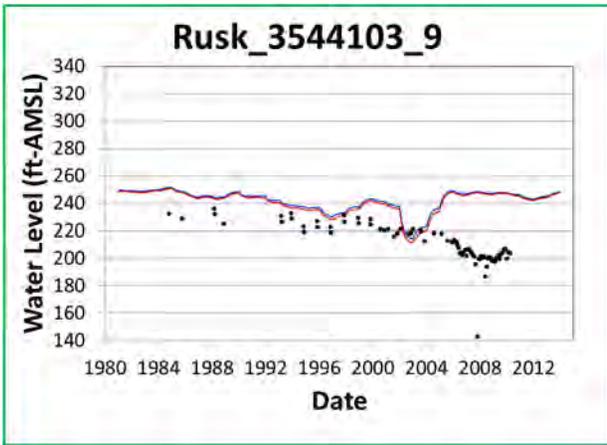
1. Select wells present model targets with a dataset of 30 or more measurements and weights.
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Appendix B – Hydrographs for Select Target Wells



Notes:

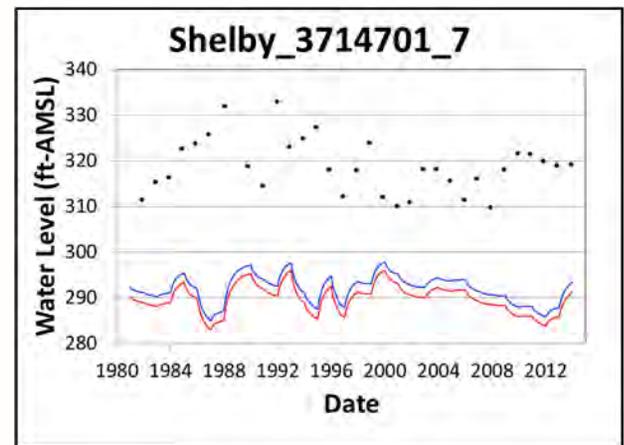
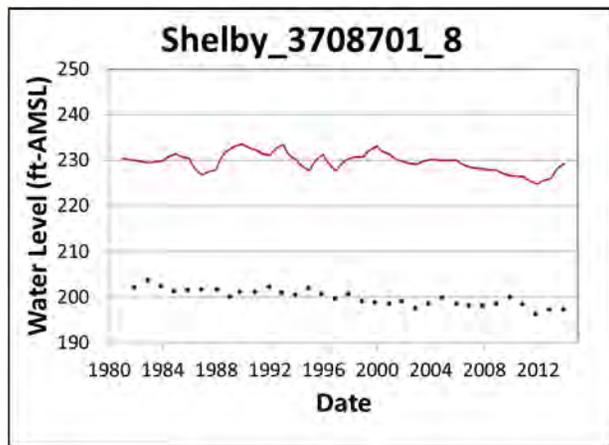
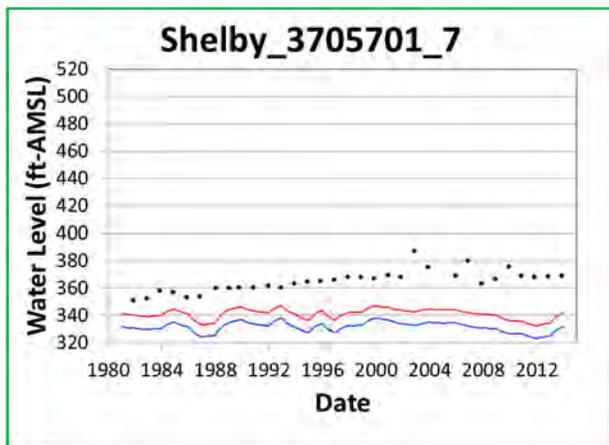
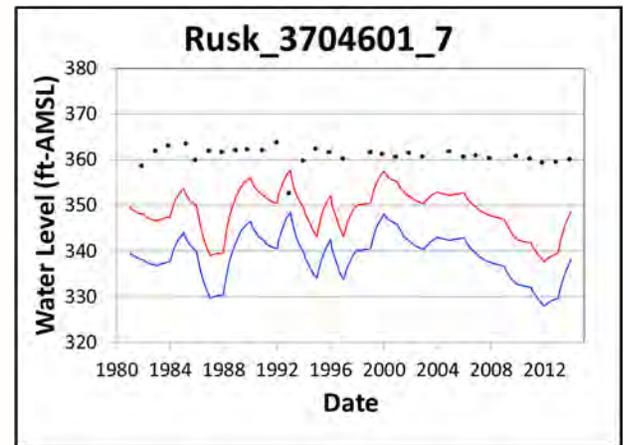
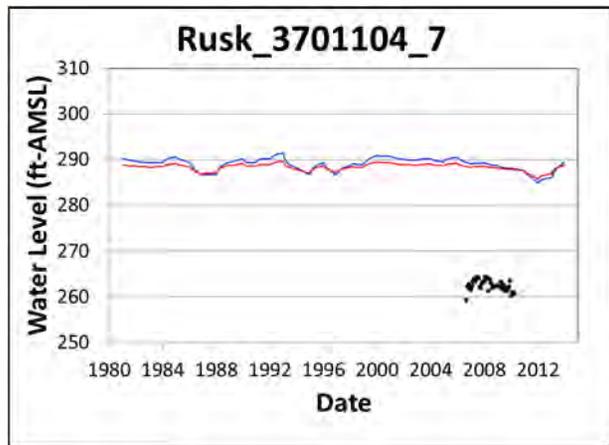
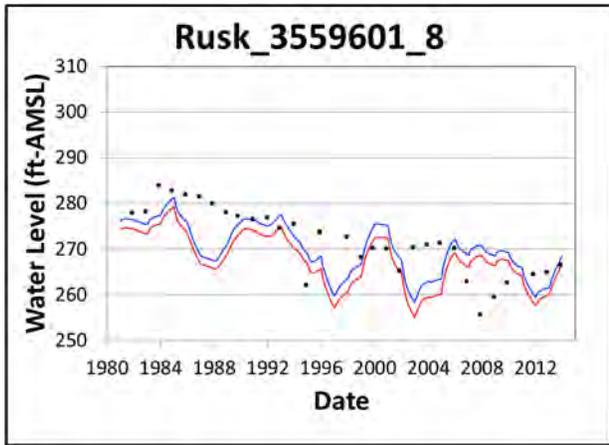
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Appendix B – Hydrographs for Select Target Wells



Notes:

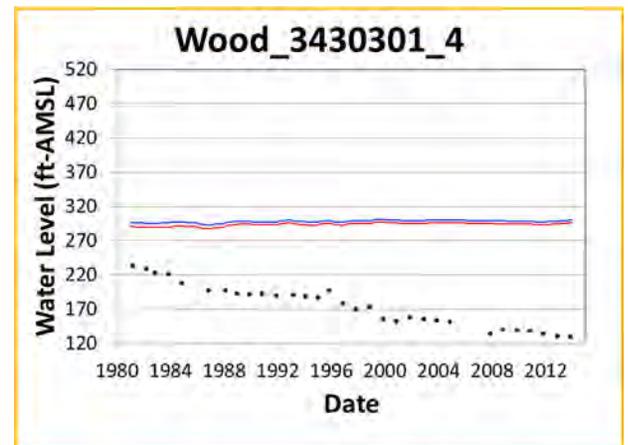
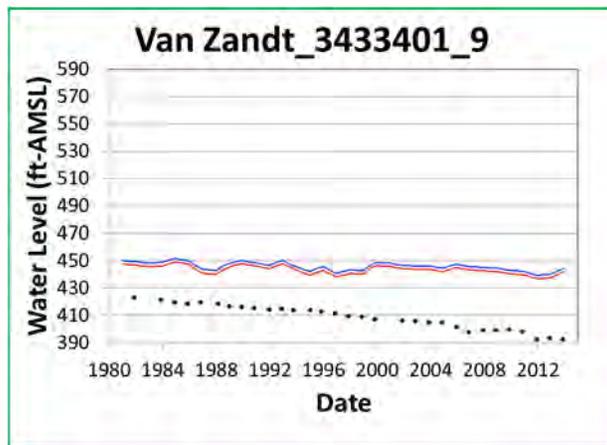
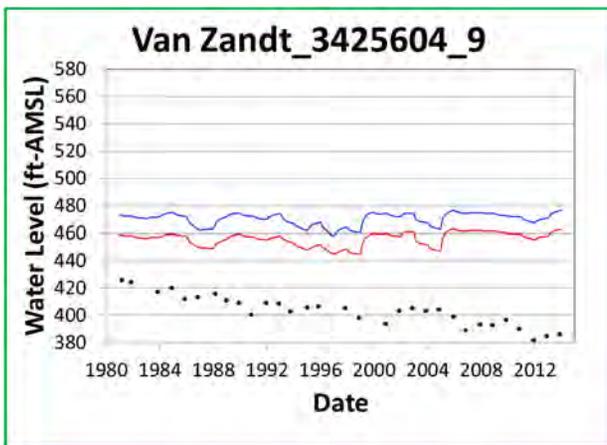
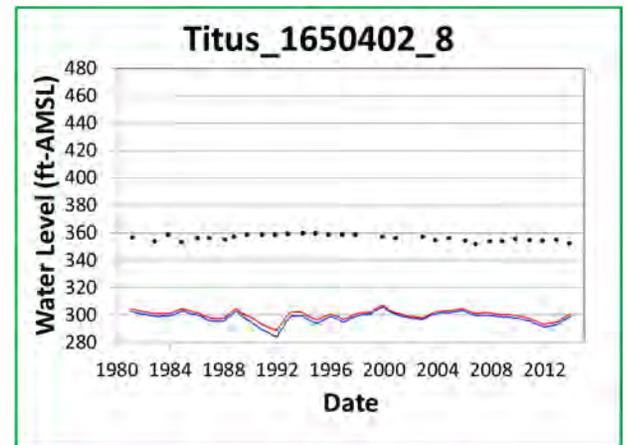
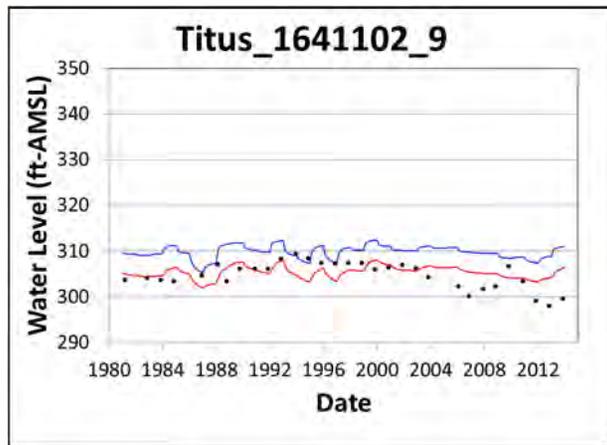
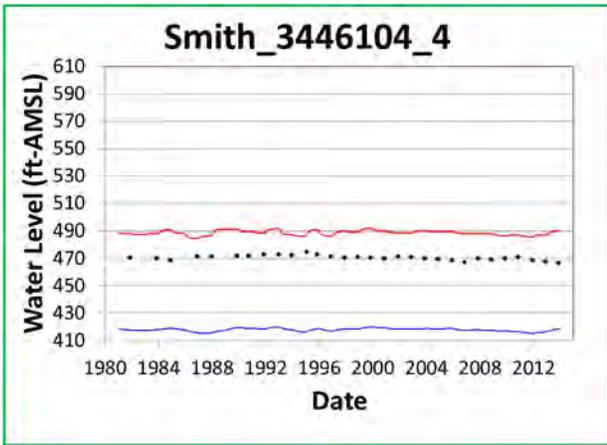
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Appendix B – Hydrographs for Select Target Wells



Notes:

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Scale:			

Appendix B – Hydrographs for Select Target Wells

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/1994	15	4981	171.84	240.226045	-68.386045	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/1994	15	4986	171.68	240.157223	-68.477223	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/1994	15	4991	171.43	240.0884	-68.6584	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/1994	15	4997	171.11	240.005814	-68.895814	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/1994	15	5002	170.92	239.936992	-69.016992	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/1994	15	5007	170.77	239.868169	-69.098169	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/1994	15	5012	170.61	239.799347	-69.189347	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/1994	15	5017	170.41	239.739683	-69.329683	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/1994	15	5022	170.17	239.683213	-69.513213	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/1994	15	5027	169.9	239.626743	-69.726743	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/1994	15	5032	169.71	239.570273	-69.860273	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/1994	15	5037	169.63	239.513803	-69.883803	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/1994	15	5042	169.61	239.457334	-69.847334	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/1994	15	5047	169.62	239.400864	-69.780864	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/1994	15	5052	169.62	239.344394	-69.724394	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/1994	15	5058	169.73	239.27663	-69.54663	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/1994	15	5063	169.96	239.22016	-69.26016	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/1994	15	5068	170.18	239.16369	-68.98369	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/1994	15	5073	170.31	239.10722	-68.79722	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/1994	15	5078	170.27	239.05075	-68.78075	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/1994	15	5083	170.25	238.99428	-68.74428	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/1994	15	5088	170.23	238.93781	-68.70781	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/1994	15	5093	170.28	238.88134	-68.60134	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/1994	15	5098	170.39	238.82487	-68.43487	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/1994	15	5103	170.8	238.7684	-67.9684	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/1994	15	5108	170.98	238.71193	-67.73193	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/1994	15	5113	170.99	238.65546	-67.66546	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/1995	16	5119	170.94	238.411295	-67.471295	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/1995	16	5124	170.93	238.134323	-67.204323	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/1995	16	5129	171.03	237.857352	-66.827352	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/1995	16	5134	171.29	237.58038	-66.29038	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/1995	16	5139	171.47	237.303408	-65.833408	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/1995	16	5144	171.78	237.026436	-65.246436	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/1995	16	5150	171.98	236.69407	-64.71407	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/1995	16	5155	172.04	236.417099	-64.377099	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/1995	16	5160	172.13	236.140127	-64.010127	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/1995	16	5165	172.16	235.914432	-63.754432	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/1995	16	5170	172.26	235.907005	-63.647005	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/1995	16	5173	172.38	235.902549	-63.522549	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/1995	16	5178	172.52	235.895122	-63.375122	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/1995	16	5183	172.6	235.887696	-63.287696	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/1995	16	5188	172.71	235.880269	-63.170269	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/1995	16	5193	172.83	235.872842	-63.042842	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/1995	16	5198	172.95	235.865415	-62.915415	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/1995	16	5203	172.94	235.857989	-62.917989	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/1995	16	5209	172.87	235.849077	-62.979077	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/1995	16	5214	172.87	235.84165	-62.97165	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/1995	16	5219	172.78	235.834223	-63.054223	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/1995	16	5224	172.63	235.835494	-63.205494	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/1995	16	5229	172.48	235.867847	-63.387847	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/1995	16	5234	172.33	235.900201	-63.570201	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/1995	16	5239	172.17	235.932554	-63.762554	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/1995	16	5244	172.13	235.964907	-63.834907	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/1995	16	5249	172.44	235.99726	-63.55726	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/1995	16	5254	172.53	236.029613	-63.499613	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/1995	16	5259	172.34	236.061966	-63.721966	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/1995	16	5264	172.09	236.09432	-64.00432	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/1995	16	5270	171.88	236.133143	-64.253143	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/1995	16	5275	171.7	236.165497	-64.465497	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/1995	16	5280	171.64	236.19785	-64.55785	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/1995	16	5285	171.5	236.230203	-64.730203	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/1995	16	5290	171.37	236.262556	-64.892556	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/1995	16	5295	171.13	236.296159	-65.166159	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/1995	16	5300	170.84	236.332786	-65.492786	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/1995	16	5305	170.65	236.369412	-65.719412	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/1995	16	5310	170.38	236.406039	-66.026039	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/1995	16	5315	170.17	236.442665	-66.272665	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/1995	16	5320	169.9	236.479292	-66.579292	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/1995	16	5325	169.47	236.515918	-67.045918	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/1995	16	5331	169.2	236.55987	-67.35987	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/1995	16	5336	168.94	236.596496	-67.656496	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/1995	16	5341	168.54	236.633123	-68.093123	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/1995	16	5346	168.24	236.669749	-68.429749	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/12/1995	16	5429	164.74	237.251148	-72.511148	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/1996	17	5686	162.87	234.193167	-71.323167	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/1996	17	5691	162.83	234.135974	-71.305974	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/1996	17	5697	162.79	234.067343	-71.277343	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/1996	17	5702	162.63	234.010151	-71.380151	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/1996	17	5707	162.55	233.952958	-71.402958	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/1996	17	5712	162.4	233.895766	-71.495766	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/1996	17	5717	162.22	233.838573	-71.618573	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/1996	17	5722	162.1	233.781381	-71.681381	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/1996	17	5728	162	233.71275	-71.71275	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/1996	17	5733	161.86	233.655557	-71.795557	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/1996	17	5738	161.67	233.598365	-71.928365	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/1996	17	5743	161.55	233.541172	-71.991172	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/1996	17	5748	161.46	233.489218	-72.029218	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/1996	17	5753	161.43	233.43759	-72.00759	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/1996	17	5758	161.36	233.385962	-72.025962	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/1996	17	5763	161.31	233.334334	-72.024334	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/1996	17	5768	161.23	233.282706	-72.052706	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/1996	17	5773	161.19	233.231077	-72.041077	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/1996	17	5778	161.18	233.179449	-71.999449	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/1996	17	5783	161.18	233.127821	-71.947821	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/1996	17	5789	161.18	233.065867	-71.885867	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/1996	17	5794	161.18	233.014239	-71.834239	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/1996	17	5799	161.18	232.962611	-71.782611	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/1996	17	5804	161.37	232.910983	-71.540983	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/22/1996	17	5805	161.37	232.900657	-71.530657	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/1996	17	5809	161.37	232.859355	-71.489355	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/1996	17	5814	161.37	232.807727	-71.437727	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/1996	17	5819	161.37	232.756099	-71.386099	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/1996	17	5824	161.37	232.704471	-71.334471	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/1996	17	5829	161.37	232.652842	-71.282842	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/1996	17	5834	161.37	232.601214	-71.231214	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/1996	17	5839	161.35	232.549586	-71.199586	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/1996	17	5844	161.33	232.497958	-71.167958	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/1997	18	5850	161.31	232.623919	-71.313919	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/1997	18	5855	161.31	232.760206	-71.450206	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/1997	18	5860	161.25	232.896492	-71.646492	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/1997	18	5865	161.14	233.032779	-71.892779	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/1997	18	5870	161.1	233.169065	-72.069065	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/1997	18	5875	161.1	233.305352	-72.205352	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/1997	18	5881	161.08	233.468896	-72.388896	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/1997	18	5886	161	233.605182	-72.605182	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/1997	18	5891	160.96	233.741469	-72.781469	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/1997	18	5896	160.99	233.848975	-72.858975	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/1997	18	5901	161.09	233.90606	-72.81606	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/1997	18	5904	161.25	233.940311	-72.690311	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/1997	18	5909	161.31	233.997396	-72.687396	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/1997	18	5914	161.31	234.054481	-72.744481	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/1997	18	5919	161.14	234.111566	-72.971566	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/1997	18	5924	161.13	234.168651	-73.038651	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/1997	18	5929	161.13	234.225735	-73.095735	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/1997	18	5934	161.07	234.28282	-73.21282	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/1997	18	5940	160.92	234.351322	-73.431322	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/1997	18	5945	160.9	234.408407	-73.508407	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/1997	18	5950	160.9	234.465492	-73.565492	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/1997	18	5955	160.9	234.517651	-73.617651	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/1997	18	5960	160.84	234.561033	-73.721033	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/1997	18	5965	160.82	234.604414	-73.784414	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/1997	18	5970	160.82	234.647796	-73.827796	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/1997	18	5975	160.76	234.691177	-73.931177	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/1997	18	5980	160.63	234.734559	-74.104559	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/1997	18	5985	160.5	234.777941	-74.277941	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/1997	18	5990	160.39	234.821322	-74.431322	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/1997	18	5995	160.35	234.864704	-74.514704	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/1997	18	6001	160.24	234.916762	-74.676762	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/1997	18	6006	160.09	234.960144	-74.870144	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/1997	18	6011	160.03	235.003525	-74.973525	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/1997	18	6016	160.02	235.046907	-75.026907	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/1997	18	6021	160.02	235.090288	-75.070288	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/1997	18	6026	160.02	235.131678	-75.111678	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/1997	18	6031	160.02	235.170014	-75.150014	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/1997	18	6036	160.01	235.208351	-75.198351	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/1997	18	6041	160.01	235.246687	-75.236687	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/1997	18	6046	160.01	235.285023	-75.275023	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/1997	18	6051	160.01	235.323359	-75.313359	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/1997	18	6056	160.01	235.361696	-75.351696	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/1997	18	6062	160.01	235.407699	-75.397699	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/1997	18	6067	160.01	235.446036	-75.436036	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/1997	18	6072	157.97	235.484372	-77.514372	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/1997	18	6077	157.75	235.522708	-77.772708	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/1997	18	6082	157.51	235.561044	-78.051044	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/1997	18	6087	157.3	235.599381	-78.299381	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/1997	18	6093	157.29	235.645384	-78.355384	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/1997	18	6098	157.29	235.683721	-78.393721	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/1997	18	6103	157.28	235.722057	-78.442057	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/1997	18	6108	157.28	235.760393	-78.480393	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/1997	18	6113	157.28	235.794761	-78.514761	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/1997	18	6118	157.28	235.828119	-78.548119	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/1997	18	6123	157.28	235.861478	-78.581478	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/1997	18	6128	157.28	235.894836	-78.614836	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/1997	18	6133	157.28	235.928194	-78.648194	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/1997	18	6138	157.28	235.961552	-78.681552	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/1997	18	6143	157.28	235.994911	-78.714911	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/1997	18	6148	157.28	236.028269	-78.748269	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/1997	18	6154	157.28	236.068299	-78.788299	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/1997	18	6159	157.28	236.101657	-78.821657	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/1997	18	6164	157.28	236.135015	-78.855015	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/19/1997	18	6167	155.5	236.15503	-80.65503	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/1997	18	6169	155.54	236.168374	-80.628374	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/1997	18	6174	155.65	236.201732	-80.551732	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/1997	18	6179	155.86	236.23509	-80.37509	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/1997	18	6184	156.08	236.268449	-80.188449	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/1997	18	6189	156.36	236.301807	-79.941807	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/1997	18	6194	156.56	236.335165	-79.775165	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/1997	18	6199	156.8	236.368523	-79.568523	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/1997	18	6204	157.11	236.401882	-79.291882	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/1997	18	6209	157.35	236.43524	-79.08524	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/1998	19	6215	157.52	236.201306	-78.681306	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/1998	19	6220	157.88	235.89221	-78.01221	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/1998	19	6225	158.21	235.583114	-77.373114	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/1998	19	6230	158.36	235.274018	-76.914018	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/1998	19	6235	158.43	234.964922	-76.534922	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/1998	19	6240	158.46	234.655826	-76.195826	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/1998	19	6246	158.52	234.28491	-75.76491	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/1998	19	6251	158.58	234.082351	-75.502351	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/1998	19	6256	158.69	233.937552	-75.247552	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/18/1998	19	6531	137.7	231.298074	-93.598074	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/1999	20	6600	136.44	232.33315	-95.89315	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/1999	20	6605	136.53	232.575434	-96.045434	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/1999	20	6611	136.69	232.866174	-96.176174	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/1999	20	6616	136.89	233.108457	-96.218457	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/1999	20	6621	136.95	233.35074	-96.40074	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/1999	20	6626	137.01	233.568871	-96.558871	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/1999	20	6631	137.06	233.684195	-96.624195	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/1999	20	6634	137.09	233.753388	-96.663388	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/1999	20	6639	137.14	233.868712	-96.728712	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/1999	20	6644	137.19	233.984035	-96.794035	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/1999	20	6649	137.37	234.099358	-96.729358	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/1999	20	6654	137.43	234.214682	-96.784682	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/1999	20	6659	137.53	234.330005	-96.800005	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/1999	20	6664	137.57	234.445328	-96.875328	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/1999	20	6670	137.74	234.583716	-96.843716	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/1999	20	6675	137.88	234.699039	-96.819039	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/1999	20	6680	137.88	234.814363	-96.934363	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/1999	20	6685	137.84	234.921985	-97.081985	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/1999	20	6690	137.75	235.002088	-97.252088	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/1999	20	6695	137.72	235.082191	-97.362191	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/1999	20	6700	137.72	235.162294	-97.442294	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/1999	20	6705	137.73	235.242397	-97.512397	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/1999	20	6710	137.79	235.322499	-97.532499	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/1999	20	6715	137.79	235.402602	-97.612602	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/1999	20	6720	137.79	235.482705	-97.692705	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/1999	20	6725	137.88	235.562808	-97.682808	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/1999	20	6731	137.88	235.658932	-97.778932	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/1999	20	6736	137.88	235.739034	-97.859034	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2000	21	6950	144.79	238.599446	-93.809446	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2000	21	6955	144.82	238.796812	-93.976812	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2000	21	6960	144.93	238.994179	-94.064179	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2000	21	6965	145.12	239.191546	-94.071546	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2000	21	6970	145.2	239.388912	-94.188912	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2000	21	6976	145.48	239.625752	-94.145752	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2000	21	6981	145.66	239.823119	-94.163119	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2000	21	6986	145.95	240.020485	-94.070485	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2000	21	6991	146.1	240.200803	-94.100803	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2000	21	6996	146.23	240.308551	-94.078551	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2000	21	7000	146.29	240.394749	-94.104749	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2000	21	7005	146.48	240.502497	-94.022497	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2000	21	7010	146.58	240.610245	-94.030245	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2000	21	7015	146.65	240.717993	-94.067993	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2000	21	7020	146.7	240.825741	-94.125741	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2000	21	7025	146.74	240.933488	-94.193488	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2000	21	7030	146.78	241.041236	-94.261236	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2000	21	7036	146.91	241.170534	-94.260534	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2000	21	7041	146.95	241.278281	-94.328281	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2000	21	7046	146.97	241.386029	-94.416029	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2000	21	7051	147	241.475417	-94.475417	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2000	21	7056	147.01	241.53931	-94.52931	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2000	21	7061	147.01	241.603203	-94.593203	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2000	21	7066	146.94	241.667096	-94.727096	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2000	21	7071	146.84	241.730989	-94.890989	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2000	21	7076	146.72	241.794881	-95.074881	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2000	21	7081	146.6	241.858774	-95.258774	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2000	21	7086	146.54	241.922667	-95.382667	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2000	21	7091	146.34	241.98656	-95.64656	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2000	21	7097	146.08	242.063232	-95.983232	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2000	21	7102	145.89	242.127124	-96.237124	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2000	21	7107	145.73	242.191017	-96.461017	-145	-155	555

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2000	21	7112	145.64	242.25491	-96.61491	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2000	21	7117	145.65	242.318803	-96.668803	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2000	21	7122	145.62	242.372833	-96.752833	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2000	21	7127	145.49	242.416704	-96.926704	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2000	21	7132	145.26	242.460575	-97.200575	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2000	21	7137	144.92	242.504446	-97.584446	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2000	21	7142	144.52	242.548317	-98.028317	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2000	21	7147	144.01	242.592188	-98.582188	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2000	21	7152	143.57	242.636059	-99.066059	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2000	21	7158	143.12	242.688704	-99.568704	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2000	21	7163	142.68	242.732574	-100.05257	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2000	21	7168	142.22	242.776445	-100.55645	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2000	21	7173	141.73	242.820316	-101.09032	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2000	21	7178	141.24	242.864187	-101.62419	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2000	21	7183	140.88	242.908058	-102.02806	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2000	21	7189	140.22	242.960703	-102.7407	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2000	21	7194	139.74	243.004574	-103.26457	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2000	21	7199	139.52	243.048444	-103.52844	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2000	21	7204	139.14	243.092315	-103.95232	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2000	21	7209	138.87	243.124767	-104.25477	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2000	21	7214	138.63	243.156508	-104.52651	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2000	21	7219	138.4	243.188248	-104.78825	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2000	21	7224	138.23	243.219989	-104.98999	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2000	21	7229	138.06	243.25173	-105.19173	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2000	21	7234	138.03	243.283471	-105.25347	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2000	21	7239	138.01	243.315211	-105.30521	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2000	21	7244	138	243.346952	-105.34695	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2000	21	7250	138.01	243.385041	-105.37504	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2000	21	7255	138.67	243.416782	-104.74678	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2000	21	7260	138.88	243.448523	-104.56852	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2000	21	7265	139.06	243.480263	-104.42026	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2000	21	7270	139.29	243.512004	-104.222	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2000	21	7275	139.57	243.543745	-103.97375	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2000	21	7280	139.78	243.575486	-103.79549	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2000	21	7285	140.07	243.607226	-103.53723	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2000	21	7290	140.23	243.638967	-103.40897	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2000	21	7295	140.26	243.670708	-103.41071	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2000	21	7300	140.56	243.702449	-103.14245	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2000	21	7305	140.82	243.734189	-102.91419	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2001	22	7487	142.26	240.060409	-97.800409	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2001	22	7492	142.04	240.024851	-97.984851	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2001	22	7497	141.78	239.989293	-98.209293	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2001	22	7502	141.46	239.953734	-98.493734	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2001	22	7507	141.17	239.918176	-98.748176	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2001	22	7512	141.17	239.882617	-98.712617	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2001	22	7517	141.17	239.847059	-98.677059	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2001	22	7523	141.17	239.804389	-98.634389	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2001	22	7528	141.17	239.768831	-98.598831	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2001	22	7533	137.72	239.733272	-102.01327	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2001	22	7538	137.45	239.697714	-102.24771	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2001	22	7543	137.35	239.662156	-102.31216	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2001	22	7548	137.34	239.626597	-102.2866	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2001	22	7554	137.33	239.583927	-102.25393	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2001	22	7559	137.33	239.548369	-102.21837	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2001	22	7564	137.33	239.51281	-102.18281	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2001	22	7569	137.33	239.477252	-102.14725	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2001	22	7574	137.33	239.448771	-102.11877	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2001	22	7579	137.33	239.42209	-102.09209	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2001	22	7584	137.33	239.395409	-102.06541	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2001	22	7589	136.82	239.368728	-102.54873	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2001	22	7594	136.95	239.342047	-102.39205	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2001	22	7599	137.1	239.315367	-102.21537	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2001	22	7604	137.28	239.288686	-102.00869	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2001	22	7609	137.37	239.262005	-101.89201	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2001	22	7615	137.53	239.229988	-101.69999	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2001	22	7620	137.65	239.203307	-101.55331	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2001	22	7625	137.87	239.176626	-101.30663	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2001	22	7630	138.12	239.149946	-101.02995	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2001	22	7635	138.39	239.123265	-100.73327	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2001	22	7640	138.6	239.096584	-100.49658	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2001	22	7645	138.81	239.069903	-100.2599	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2001	22	7650	138.99	239.043223	-100.05322	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2001	22	7655	139.26	239.016542	-99.756542	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2001	22	7660	139.54	238.989861	-99.449861	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2001	22	7665	139.99	238.96318	-98.97318	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2001	22	7670	140.11	238.936499	-98.826499	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2002	23	7676	140.11	239.069146	-98.959146	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2002	23	7681	140.1	239.248294	-99.148294	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2002	23	7686	140.18	239.427442	-99.247442	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2002	23	7691	140.31	239.60659	-99.29659	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2002	23	7696	140.45	239.785738	-99.335738	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2002	23	7701	140.59	239.964886	-99.374886	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2002	23	7707	140.72	240.179864	-99.459864	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2002	23	7712	140.9	240.359012	-99.459012	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2002	23	7717	141.09	240.538161	-99.448161	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2002	23	7722	141.25	240.693898	-99.443898	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2002	23	7727	141.37	240.749983	-99.379983	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2002	23	7730	141.4	240.783634	-99.383634	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2002	23	7735	141.43	240.839719	-99.409719	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2002	23	7740	141.47	240.895804	-99.425804	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2002	23	7745	141.52	240.95189	-99.43189	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2002	23	7750	141.54	241.007975	-99.467975	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2002	23	7755	141.6	241.06406	-99.46406	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2002	23	7760	141.8	241.120145	-99.320145	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2002	23	7766	141.9	241.187447	-99.287447	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2002	23	7771	142.05	241.243532	-99.193532	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2002	23	7776	142.15	241.299617	-99.149617	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2002	23	7781	142.17	241.345958	-99.175958	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2002	23	7786	142.14	241.357479	-99.217479	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2002	23	7791	142.08	241.368999	-99.288999	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2002	23	7796	142.04	241.38052	-99.34052	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2002	23	7801	141.98	241.39204	-99.41204	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2002	23	7806	141.93	241.403561	-99.473561	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2002	23	7811	141.9	241.415081	-99.515081	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2002	23	7816	141.83	241.426602	-99.596602	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2002	23	7821	141.66	241.438122	-99.778122	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2002	23	7827	141.45	241.451947	-100.00195	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2002	23	7832	141.21	241.463468	-100.25347	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2002	23	7837	141.03	241.474988	-100.44499	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2002	23	7842	140.84	241.486509	-100.64651	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2002	23	7847	140.53	241.498029	-100.96803	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2002	23	7852	140.33	241.505709	-101.17571	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2002	23	7857	140.18	241.504104	-101.3241	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2002	23	7862	139.92	241.502499	-101.5825	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2002	23	7867	139.87	241.500894	-101.63089	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2002	23	7872	139.9	241.499288	-101.59929	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2002	23	7877	139.9	241.497683	-101.59768	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2002	23	7882	139.82	241.496078	-101.67608	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2002	23	7888	139.69	241.494152	-101.80415	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2002	23	7893	139.49	241.492546	-102.00255	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2002	23	7898	139.39	241.490941	-102.10094	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2002	23	7903	139.28	241.489336	-102.20934	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2002	23	7908	139.06	241.487731	-102.42773	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2002	23	7913	138.89	241.486126	-102.59613	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2002	23	7919	138.69	241.484199	-102.7942	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2002	23	7924	138.48	241.482594	-103.00259	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2002	23	7929	138.29	241.480989	-103.19099	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2002	23	7934	138.17	241.479384	-103.30938	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2002	23	7939	138.08	241.474845	-103.39485	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2002	23	7944	137.97	241.469284	-103.49928	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2002	23	7949	137.87	241.463723	-103.59372	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2002	23	7954	137.74	241.458161	-103.71816	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2002	23	7959	137.67	241.4526	-103.7826	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2002	23	7964	137.59	241.447039	-103.85704	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2002	23	7969	137.59	241.441477	-103.85148	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2002	23	7990	137.88	241.41812	-103.53812	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2002	23	7995	137.97	241.412558	-103.44256	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2002	23	8000	138.09	241.406997	-103.317	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2002	23	8005	138.17	241.401436	-103.23144	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2002	23	8010	138.27	241.395874	-103.12587	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2002	23	8015	138.37	241.390313	-103.02031	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2003	24	8066	140.31	241.020666	-100.71067	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2003	24	8072	140.52	240.94925	-100.42925	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2003	24	8115	142.23	240.943899	-98.713899	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2003	24	8120	142.27	240.971854	-98.701854	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2003	24	8125	142.35	240.999809	-98.649809	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2003	24	8131	142.4	241.033355	-98.633355	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2003	24	8136	142.51	241.06131	-98.55131	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2003	24	8141	143.57	241.089265	-97.519265	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2003	24	8146	143.62	241.117285	-97.497285	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2003	24	8151	143.67	241.145533	-97.475533	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2003	24	8156	143.71	241.173781	-97.463781	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2003	24	8161	143.71	241.202029	-97.492029	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2003	24	8166	143.71	241.230278	-97.520278	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2003	24	8171	143.6	241.258526	-97.658526	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2003	24	8176	143.5	241.286774	-97.786774	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2003	24	8181	143.3	241.315023	-98.015023	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2003	24	8186	143.19	241.343271	-98.153271	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2003	24	8192	142.94	241.377169	-98.437169	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2003	24	8197	142.78	241.405417	-98.625417	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2003	24	8202	142.68	241.433666	-98.753666	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2003	24	8217	142.51	241.517077	-99.007077	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2003	24	8289	138.34	241.858234	-103.51823	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2003	24	8294	138.24	241.881925	-103.64193	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2003	24	8299	137.05	241.905616	-104.85562	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2003	24	8304	136.95	241.925986	-104.97599	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2003	24	8309	136.83	241.945196	-105.1152	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2003	24	8314	136.64	241.964407	-105.32441	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2003	24	8324	136.54	242.002828	-105.46283	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2003	24	8350	136.38	242.102723	-105.72272	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2003	24	8355	136.39	242.121933	-105.73193	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2003	24	8360	136.48	242.141144	-105.66114	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2003	24	8365	136.56	242.160354	-105.60035	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2003	24	8370	136.61	242.179565	-105.56957	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2003	24	8375	136.68	242.198775	-105.51878	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2003	24	8380	136.81	242.217986	-105.40799	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2003	24	8390	137.07	242.256407	-105.18641	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2003	24	8395	137.22	242.275617	-105.05562	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2003	24	8400	137.38	242.294828	-104.91483	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2004	25	8406	137.6	241.879286	-104.27929	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2004	25	8411	137.69	241.350254	-103.66025	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2004	25	8416	137.86	240.821222	-102.96122	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2004	25	8421	138.15	240.29219	-102.14219	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2004	25	8426	138.3	239.763158	-101.46316	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2004	25	8431	138.32	239.234125	-100.91413	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2004	25	8437	138.32	238.599287	-100.27929	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2004	25	8442	138.32	238.070254	-99.750254	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2004	25	8447	138.32	237.541222	-99.221222	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2004	25	8452	138.32	237.068631	-98.748631	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2004	25	8457	138.32	236.836291	-98.516291	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2004	25	8461	139.29	236.650419	-97.360419	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2004	25	8466	139.47	236.418079	-96.948079	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2004	25	8471	139.59	236.185739	-96.595739	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2004	25	8476	139.69	235.953399	-96.263399	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2004	25	8481	139.83	235.721059	-95.891059	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2004	25	8486	139.92	235.488719	-95.568719	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2004	25	8491	139.96	235.25638	-95.29638	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2004	25	8497	139.97	234.977572	-95.007572	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2004	25	8502	139.99	234.745232	-94.755232	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2004	25	8507	140	234.512892	-94.512892	-145	-155	555

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2004	25	8512	139.97	234.333044	-94.363044	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2004	25	8517	139.95	234.226118	-94.276118	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2004	25	8522	139.95	234.119191	-94.169191	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2004	25	8527	139.96	234.012265	-94.052265	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2004	25	8532	139.95	233.905338	-93.955338	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2004	25	8537	139.89	233.798411	-93.908411	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2004	25	8542	139.78	233.691485	-93.911485	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2004	25	8547	139.55	233.584558	-94.034558	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2004	25	8552	139.52	233.477632	-93.957632	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2004	25	8558	139.52	233.34932	-93.82932	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2004	25	8563	139.52	233.242393	-93.722393	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2004	25	8568	139.52	233.135467	-93.615467	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2004	25	8573	139.52	233.02854	-93.50854	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2004	25	8578	139.52	232.921614	-93.401614	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2004	25	8583	139.52	232.837245	-93.317245	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2004	25	8588	139.52	232.776115	-93.256115	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2004	25	8593	137.88	232.714985	-94.834985	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2004	25	8598	137.55	232.653855	-95.103855	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2004	25	8603	137.16	232.592725	-95.432725	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2004	25	8608	136.67	232.531595	-95.861595	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2004	25	8613	136.23	232.470464	-96.240464	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2004	25	8619	135.87	232.397108	-96.527108	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2004	25	8624	135.48	232.335978	-96.855978	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2005	26	8797	137.14	232.422532	-95.282532	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2005	26	8803	137.37	232.700239	-95.330239	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2005	26	8808	137.54	232.931662	-95.391662	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2005	26	8813	137.79	233.163085	-95.373085	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2005	26	8818	137.94	233.339376	-95.399376	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2005	26	8823	138.12	233.419122	-95.299122	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2005	26	8826	138.22	233.466969	-95.246969	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2005	26	8831	138.35	233.546714	-95.196714	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2005	26	8836	138.45	233.62646	-95.17646	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2005	26	8841	138.59	233.706205	-95.116205	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2005	26	8846	138.7	233.785951	-95.085951	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2005	26	8897	138.88	234.377151	-95.497151	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2005	26	8902	138.8	234.405927	-95.605927	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2005	26	8907	138.58	234.434704	-95.854704	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2005	26	8912	138.22	234.463348	-96.243348	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2005	26	8917	137.99	234.492257	-96.502257	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2005	26	8923	137.82	234.526788	-96.706788	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2005	26	8928	137.64	234.555565	-96.915565	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2005	26	8933	137.37	234.584341	-97.214341	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2005	26	8938	137.16	234.613117	-97.453117	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2005	26	8943	136.68	234.641894	-97.961894	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2005	26	8948	136.17	234.665328	-98.495328	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2005	26	8953	135.79	234.680572	-98.890572	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2005	26	8958	135.39	234.695816	-99.305816	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2005	26	8963	135.19	234.711059	-99.521059	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2005	26	8968	135.02	234.726303	-99.706303	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2005	26	8973	134.73	234.741547	-100.01155	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2005	26	8978	134.38	234.75679	-100.37679	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2005	26	8984	133.91	234.775083	-100.86508	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2005	26	8989	133.76	234.790326	-101.03033	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2005	26	8994	133.53	234.80557	-101.27557	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2005	26	8999	133.26	234.820814	-101.56081	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2005	26	9004	132.91	234.836057	-101.92606	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2005	26	9009	132.71	234.851301	-102.1413	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2005	26	9015	132.51	234.869593	-102.35959	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2005	26	9020	132.22	234.884837	-102.66484	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2005	26	9025	131.91	234.900081	-102.99008	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2005	26	9030	131.75	234.915324	-103.16532	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2005	26	9035	131.6	234.926758	-103.32676	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2005	26	9040	131.51	234.937221	-103.42722	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2005	26	9045	131.39	234.947685	-103.55769	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2005	26	9050	131.33	234.958149	-103.62815	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2005	26	9055	131.24	234.968612	-103.72861	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2005	26	9060	131.12	234.979076	-103.85908	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2005	26	9065	131.01	234.989539	-103.97954	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2005	26	9070	130.92	235.000003	-104.08	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2005	26	9076	130.88	235.012559	-104.13256	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2005	26	9081	130.88	235.023023	-104.14302	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2005	26	9086	130.88	235.033486	-104.15349	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2005	26	9091	130.89	235.04395	-104.15395	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2005	26	9096	130.92	235.054413	-104.13441	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2005	26	9101	130.99	235.064877	-104.07488	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2005	26	9106	131.15	235.07534	-103.92534	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2005	26	9111	131.19	235.085804	-103.8958	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2005	26	9116	131.26	235.096268	-103.83627	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2005	26	9121	131.31	235.106731	-103.79673	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2005	26	9126	131.31	235.117195	-103.8072	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2005	26	9131	131.32	235.127658	-103.80766	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2006	27	9137	131.33	234.702311	-103.37231	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2006	27	9142	131.33	234.165396	-102.8354	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2006	27	9147	131.33	233.628481	-102.29848	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2006	27	9152	131.33	233.091565	-101.76157	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2006	27	9157	131.33	232.55465	-101.22465	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2006	27	9162	131.33	232.017734	-100.68773	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2006	27	9168	131.33	231.373436	-100.04344	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2006	27	9173	131.33	230.83652	-99.50652	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2006	27	9178	131.33	230.299605	-98.969605	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2006	27	9183	131.33	229.820758	-98.490758	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2006	27	9188	131.33	229.589086	-98.259086	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2006	27	9191	131.33	229.450083	-98.120083	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2006	27	9196	131.33	229.218412	-97.888412	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2006	27	9201	131.33	228.986741	-97.656741	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2006	27	9206	131.33	228.755069	-97.425069	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2006	27	9211	131.33	228.523398	-97.193398	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2006	27	9216	131.33	228.291726	-96.961726	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2006	27	9221	133.08	228.060055	-94.980055	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2006	27	9227	133.13	227.782049	-94.652049	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2006	27	9232	133.17	227.550378	-94.380378	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2006	27	9237	133.16	227.318707	-94.158707	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2006	27	9242	133.05	227.1098	-94.0598	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2006	27	9247	132.96	226.982288	-94.022288	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2006	27	9252	132.93	226.854776	-93.924776	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2006	27	9257	132.87	226.727264	-93.857264	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2006	27	9262	132.84	226.599752	-93.759752	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2006	27	9267	132.77	226.47224	-93.70224	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2006	27	9272	132.64	226.344729	-93.704729	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2006	27	9277	132.34	226.217217	-93.877217	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2006	27	9282	131.99	226.089705	-94.099705	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2006	27	9288	131.56	225.936691	-94.376691	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2006	27	9293	131.13	225.809179	-94.679179	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2006	27	9298	130.54	225.681667	-95.141667	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2006	27	9303	130.25	225.554155	-95.304155	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2006	27	9308	130.01	225.426643	-95.416643	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2006	27	9313	129.61	225.311211	-95.701211	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2006	27	9318	129.14	225.224985	-96.084985	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2006	27	9323	128.83	225.13876	-96.30876	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2006	27	9328	128.42	225.052535	-96.632535	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2006	27	9333	128.03	224.966309	-96.936309	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2006	27	9338	127.68	224.880084	-97.200084	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2006	27	9343	127.41	224.793859	-97.383859	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2006	27	9349	127.36	224.690389	-97.330389	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2006	27	9354	127.36	224.604163	-97.244163	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2006	27	9359	127.36	224.517938	-97.157938	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2006	27	9369	127.36	224.345487	-96.985487	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2006	27	9385	123.99	224.069566	-100.07957	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2006	27	9390	123.78	223.983341	-100.20334	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2006	27	9395	123.62	223.897116	-100.27712	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2006	27	9400	123.51	223.827832	-100.31783	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2006	27	9405	123.36	223.764458	-100.40446	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2006	27	9410	123.07	223.701084	-100.63108	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2006	27	9415	122.81	223.63771	-100.82771	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2006	27	9420	122.66	223.574336	-100.91434	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2006	27	9425	122.67	223.510962	-100.84096	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2006	27	9430	122.75	223.447587	-100.69759	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2006	27	9435	122.88	223.384213	-100.50421	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2006	27	9441	123	223.308164	-100.30816	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2006	27	9446	123	223.24479	-100.24479	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2006	27	9451	123	223.181416	-100.18142	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2006	27	9456	123.03	223.118042	-100.08804	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2006	27	9461	123.04	223.054668	-100.01467	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2006	27	9466	123.1	222.991293	-99.891293	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2006	27	9471	123.16	222.927919	-99.767919	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2006	27	9476	123.2	222.864545	-99.664545	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2006	27	9481	123.26	222.801171	-99.541171	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2006	27	9486	123.54	222.737797	-99.197797	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2006	27	9491	123.65	222.674422	-99.024422	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2006	27	9496	123.66	222.611048	-98.951048	-145	-155	555

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2007	28	9502	123.66	222.977203	-99.317203	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2007	28	9507	123.66	223.466583	-99.806583	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2007	28	9512	123.66	223.955964	-100.295964	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2007	28	9517	123.66	224.445344	-100.785344	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2007	28	9522	123.66	224.934725	-101.274725	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2007	28	9527	123.66	225.424105	-101.76411	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2007	28	9533	123.66	226.011362	-102.35136	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2007	28	9538	123.66	226.500742	-102.84074	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2007	28	9543	123.66	226.990122	-103.33012	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2007	28	9548	123.8	227.419602	-103.6196	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2007	28	9553	123.8	227.594101	-103.7941	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2007	28	9556	123.8	227.698801	-103.8988	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2007	28	9561	123.8	227.8733	-104.0733	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2007	28	9566	123.8	228.0478	-104.2478	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2007	28	9571	123.8	228.222299	-104.4223	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2007	28	9576	123.8	228.396799	-104.5968	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2007	28	9581	123.8	228.571298	-104.7713	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2007	28	9586	123.8	228.745797	-104.9458	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2007	28	9592	123.8	228.955197	-105.1552	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2007	28	9597	123.81	229.129696	-105.3197	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2007	28	9602	123.81	229.304196	-105.4942	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2007	28	9607	123.81	229.456901	-105.6469	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2007	28	9612	123.81	229.531682	-105.72168	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2007	28	9617	123.81	229.606463	-105.79646	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2007	28	9622	123.81	229.681245	-105.87125	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2007	28	9627	123.81	229.756026	-105.94603	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2007	28	9632	123.81	229.830807	-106.02081	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2007	28	9637	123.81	229.905588	-106.09559	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2007	28	9642	123.81	229.980369	-106.17037	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2007	28	9647	123.81	230.05515	-106.24515	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2007	28	9653	127.35	230.144887	-102.79489	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2007	28	9658	127.35	230.219669	-102.86967	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2007	28	9663	127.36	230.29445	-102.93445	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2007	28	9668	127.35	230.369231	-103.01923	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2007	28	9673	127.34	230.444012	-103.10401	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2007	28	9678	127.37	230.508649	-103.13865	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2007	28	9683	127.43	230.548758	-103.11876	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2007	28	9688	127.62	230.588867	-102.96887	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2007	28	9693	127.8	230.628976	-102.82898	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2007	28	9698	127.84	230.669085	-102.82909	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2007	28	9703	127.83	230.709194	-102.87919	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2007	28	9708	127.76	230.749303	-102.9893	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2007	28	9714	127.67	230.797434	-103.12743	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2007	28	9719	127.53	230.837543	-103.30754	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2007	28	9724	127.29	230.877652	-103.58765	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2007	28	9729	127.07	230.917761	-103.84776	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2007	28	9734	126.87	230.95787	-104.08787	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2007	28	9739	126.63	230.997979	-104.36798	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2007	28	9745	126.29	231.04611	-104.75611	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2007	28	9750	126.16	231.086219	-104.92622	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2007	28	9755	126.05	231.126328	-105.07633	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2007	28	9760	125.86	231.166437	-105.30644	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2007	28	9765	125.69	231.194077	-105.50408	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2007	28	9770	125.57	231.217367	-105.64737	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2007	28	9775	125.71	231.240658	-105.53066	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2007	28	9780	125.6	231.263948	-105.66395	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2007	28	9785	125.35	231.287239	-105.93724	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2007	28	9790	125.21	231.310529	-106.10053	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2007	28	9795	125.09	231.33382	-106.24382	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2007	28	9800	124.91	231.35711	-106.44711	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2007	28	9806	124.79	231.385059	-106.59506	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2007	28	9811	124.74	231.40835	-106.66835	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2007	28	9816	124.73	231.43164	-106.70164	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2007	28	9821	124.73	231.454931	-106.72493	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2007	28	9826	124.72	231.478221	-106.75822	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2007	28	9831	124.72	231.501512	-106.78151	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2007	28	9836	124.72	231.524802	-106.8048	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2007	28	9841	124.74	231.548093	-106.80809	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2007	28	9846	124.76	231.571383	-106.81138	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2007	28	9851	124.8	231.594674	-106.79467	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2007	28	9856	124.86	231.617964	-106.75796	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2007	28	9861	124.86	231.641255	-106.78126	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2008	29	9867	124.85	231.401448	-106.55145	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2008	29	9872	124.9	231.090044	-106.19004	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2008	29	9877	124.98	230.77864	-105.79864	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2008	29	9882	125.04	230.467236	-105.42724	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2008	29	9887	125.04	230.155832	-105.11583	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2008	29	9892	125.07	229.844428	-104.77443	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2008	29	9898	125.19	229.470743	-104.28074	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2008	29	9903	125.29	229.159339	-103.86934	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2008	29	9908	125.36	228.847935	-103.48794	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2008	29	9913	125.43	228.572285	-103.14229	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2008	29	9918	125.49	228.448828	-102.95883	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/29/2008	29	9921	125.49	228.374753	-102.88475	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2008	29	9922	125.5	228.350061	-102.85006	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2008	29	9927	125.5	228.226604	-102.7266	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2008	29	9932	125.5	228.103146	-102.60315	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2008	29	9937	125.54	227.979688	-102.43969	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2008	29	9942	125.55	227.856231	-102.30623	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2008	29	9947	125.54	227.732773	-102.19277	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2008	29	9952	125.54	227.609315	-102.06932	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2008	29	9958	125.54	227.461166	-101.92117	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2008	29	9963	125.54	227.337708	-101.79771	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2008	29	9968	125.54	227.214251	-101.67425	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2008	29	9973	125.51	227.116247	-101.60625	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2008	29	9978	125.48	227.053605	-101.57361	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2008	29	9983	125.41	226.990962	-101.58096	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2008	29	9988	125.4	226.92832	-101.52832	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2008	29	9993	125.41	226.865677	-101.45568	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2008	29	9998	125.44	226.803035	-101.36304	-145	-155	555

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2008	29	10003	125.44	226.740392	-101.30039	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2008	29	10008	125.44	226.67775	-101.23775	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2008	29	10013	125.44	226.615107	-101.17511	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2008	29	10019	125.44	226.539936	-101.09994	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2008	29	10024	125.44	226.477294	-101.03729	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2008	29	10029	125.44	226.414651	-100.97465	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2008	29	10034	125.44	226.352009	-100.91201	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2008	29	10039	125.44	226.289366	-100.84937	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2008	29	10044	125.44	226.237672	-100.79767	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2008	29	10049	125.44	226.197256	-100.75726	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2008	29	10054	125.44	226.15684	-100.71684	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2008	29	10059	125.44	226.116424	-100.67642	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2008	29	10064	125.44	226.076008	-100.63601	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2008	29	10069	125.44	226.035592	-100.59559	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2008	29	10090	122	225.865844	-103.86584	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2008	29	10095	121.76	225.825428	-104.06543	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2008	29	10100	121.65	225.785012	-104.13501	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2008	29	10105	121.53	225.744596	-104.2146	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2008	29	10111	121.44	225.696096	-104.2561	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2008	29	10116	121.37	225.65568	-104.28568	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2008	29	10121	121.36	225.615264	-104.25526	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2008	29	10126	121.29	225.574848	-104.28485	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2008	29	10131	121.19	225.545451	-104.35545	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2008	29	10136	121.05	225.51674	-104.46674	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2008	29	10141	120.87	225.488028	-104.61803	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2008	29	10146	120.73	225.459317	-104.72932	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2008	29	10151	120.67	225.430606	-104.76061	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2008	29	10156	120.65	225.401894	-104.75189	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2008	29	10161	120.85	225.373183	-104.52318	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2008	29	10166	120.77	225.344472	-104.57447	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2008	29	10172	120.72	225.310018	-104.59002	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2008	29	10177	120.72	225.281307	-104.56131	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2008	29	10182	120.78	225.252596	-104.4726	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2008	29	10187	120.8	225.223884	-104.42388	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2008	29	10192	120.83	225.195173	-104.36517	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2008	29	10197	120.86	225.166462	-104.30646	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2008	29	10202	120.91	225.137751	-104.22775	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2008	29	10212	121.04	225.080328	-104.04033	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2008	29	10217	121.12	225.051617	-103.93162	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2008	29	10227	121.27	224.994194	-103.72419	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2009	30	10233	121.42	225.395147	-103.97515	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2009	30	10238	121.6	225.801842	-104.20184	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2009	30	10243	121.72	226.208537	-104.48854	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2009	30	10248	121.87	226.615232	-104.74523	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2009	30	10253	122.03	227.021927	-104.99193	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2009	30	10258	122.18	227.428623	-105.24862	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2009	30	10264	122.33	227.916657	-105.58666	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2009	30	10269	122.47	228.323352	-105.85335	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2009	30	10274	122.62	228.730047	-106.11005	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2009	30	10279	122.79	229.038724	-106.24872	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2009	30	10284	122.9	229.175752	-106.27575	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2009	30	10287	122.9	229.257969	-106.35797	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2009	30	10292	123.1	229.394996	-106.295	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2009	30	10297	123.19	229.532024	-106.34202	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2009	30	10302	123.34	229.669052	-106.32905	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2009	30	10307	123.51	229.80608	-106.29608	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2009	30	10312	123.53	229.943108	-106.41311	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2009	30	10317	123.7	230.080135	-106.38014	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2009	30	10323	123.94	230.244569	-106.30457	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2009	30	10328	124.01	230.381596	-106.3716	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2009	30	10333	124.08	230.518624	-106.43862	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2009	30	10338	124.18	230.624961	-106.44496	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2009	30	10343	124.28	230.676636	-106.39664	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2009	30	10348	124.32	230.728311	-106.40831	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2009	30	10353	124.32	230.779986	-106.45999	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2009	30	10358	124.51	230.831661	-106.32166	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2009	30	10363	124.58	230.883335	-106.30334	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2009	30	10368	124.55	230.93501	-106.38501	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2009	30	10373	124.47	230.986685	-106.51669	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2009	30	10378	124.41	231.03836	-106.62836	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2009	30	10384	124.24	231.10037	-106.86037	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2009	30	10389	124.07	231.152044	-107.08204	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2009	30	10394	123.91	231.203719	-107.29372	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2009	30	10399	123.7	231.255394	-107.55539	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2009	30	10404	123.27	231.307069	-108.03707	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2009	30	10409	122.75	231.347187	-108.59719	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2009	30	10414	122.21	231.369584	-109.15958	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2009	30	10419	121.94	231.391982	-109.45198	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2009	30	10424	121.52	231.414379	-109.89438	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2009	30	10429	121.15	231.436777	-110.28678	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2009	30	10434	120.98	231.459174	-110.47917	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2009	30	10439	120.86	231.481571	-110.62157	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2009	30	10445	120.79	231.508448	-110.71845	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2009	30	10450	120.75	231.530846	-110.78085	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2009	30	10455	120.53	231.553243	-111.02324	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2009	30	10460	120.34	231.57564	-111.23564	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2009	30	10465	120.13	231.598038	-111.46804	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2009	30	10470	119.96	231.620435	-111.66044	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2009	30	10476	119.81	231.647312	-111.83731	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2009	30	10481	119.67	231.669709	-111.99971	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2009	30	10486	119.65	231.692107	-112.04211	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2009	30	10491	119.79	231.714504	-111.9245	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2009	30	10496	119.96	231.726293	-111.76629	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2009	30	10501	120.07	231.735381	-111.66538	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2009	30	10506	120.22	231.744469	-111.52447	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2009	30	10521	120.99	231.771734	-110.78173	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2009	30	10526	121.22	231.780822	-110.56082	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2009	30	10531	121.51	231.78991	-110.27991	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2009	30	10537	121.74	231.800816	-110.06082	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2009	30	10542	121.84	231.809905	-109.96991	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2009	30	10547	121.93	231.818993	-109.88899	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2009	30	10552	122.02	231.828081	-109.80808	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2009	30	10557	122.15	231.837169	-109.68717	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2009	30	10562	122.25	231.846257	-109.59626	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2009	30	10567	122.49	231.855346	-109.36535	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2009	30	10572	122.69	231.864434	-109.17443	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2009	30	10577	122.83	231.873522	-109.04352	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2009	30	10582	122.91	231.88261	-108.97261	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2009	30	10587	123.01	231.891698	-108.8817	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2009	30	10592	123.06	231.900787	-108.84079	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2010	31	10598	123.13	231.574043	-108.44404	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2010	31	10603	123.16	231.161069	-108.00107	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2010	31	10608	122.99	230.748095	-107.7581	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2010	31	10613	123	230.335121	-107.33512	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2010	31	10618	123.09	229.922148	-106.83215	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2010	31	10623	123.16	229.509174	-106.34917	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2010	31	10629	123.28	229.013605	-105.73361	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2010	31	10634	123.52	228.600632	-105.08063	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2010	31	10639	123.91	228.187658	-104.27766	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2010	31	10644	124.11	227.822685	-103.71269	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2010	31	10649	124.12	227.662035	-103.54204	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/1/2010	31	10652	124.12	227.565646	-103.44565	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2010	31	10657	124.17	227.404996	-103.235	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2010	31	10662	124.22	227.244347	-103.02435	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2010	31	10667	124.36	227.083698	-102.7237	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2010	31	10672	124.43	226.923048	-102.49305	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2010	31	10677	124.53	226.762399	-102.2324	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2010	31	10682	124.67	226.60175	-101.93175	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2010	31	10688	124.89	226.40897	-101.51897	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2010	31	10693	124.99	226.248321	-101.25832	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2010	31	10698	125.03	226.087672	-101.05767	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2010	31	10703	125.08	225.944759	-100.86476	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2010	31	10708	125.15	225.865262	-100.71526	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2010	31	10713	125.29	225.785766	-100.49577	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2010	31	10718	125.36	225.70627	-100.34627	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2010	31	10723	125.32	225.626773	-100.30677	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2010	31	10728	125.36	225.547277	-100.18728	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2010	31	10733	125.23	225.467781	-100.23778	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2010	31	10738	125	225.388285	-100.38829	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2010	31	10743	124.7	225.308788	-100.60879	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2010	31	10749	124.23	225.213393	-100.98339	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2010	31	10754	123.81	225.133896	-101.3239	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2010	31	10759	123.63	225.0544	-101.4244	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2010	31	10764	123.39	224.974904	-101.5849	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2010	31	10769	123.1	224.895408	-101.79541	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2010	31	10774	122.93	224.824534	-101.89453	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2010	31	10779	122.8	224.774509	-101.97451	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2010	31	10784	122.75	224.724484	-101.97448	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2010	31	10789	122.66	224.674458	-102.01446	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2010	31	10794	122.55	224.624433	-102.07443	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2010	31	10799	122.39	224.574408	-102.18441	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2010	31	10804	122.27	224.524383	-102.25438	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2010	31	10810	122.14	224.464353	-102.32435	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2010	31	10820	121.59	224.364303	-102.7743	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2010	31	10825	121.26	224.314277	-103.05428	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2010	31	10830	120.95	224.264252	-103.31425	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2010	31	10835	120.66	224.214227	-103.55423	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2010	31	10841	120.47	224.154197	-103.6842	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2010	31	10846	120.4	224.104172	-103.70417	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2010	31	10851	120.38	224.054147	-103.67415	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2010	31	10871	119.79	223.895477	-104.10548	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2010	31	10876	119.79	223.860565	-104.07057	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2010	31	10881	119.76	223.825653	-104.06565	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2010	31	10886	119.76	223.79074	-104.03074	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2010	31	10891	119.76	223.755828	-103.99583	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2010	31	10896	119.79	223.720916	-103.93092	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2010	31	10902	119.86	223.679021	-103.81902	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2010	31	10907	120.03	223.644109	-103.61411	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2010	31	10912	120.22	223.609197	-103.3892	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2010	31	10917	120.42	223.574285	-103.15429	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2010	31	10922	120.55	223.539373	-102.98937	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2010	31	10927	120.7	223.504461	-102.80446	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2010	31	10932	120.86	223.469548	-102.60955	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2010	31	10937	120.96	223.434636	-102.47464	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2010	31	10942	121.2	223.399724	-102.19972	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2010	31	10947	121.35	223.364812	-102.01481	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2010	31	10952	121.5	223.3299	-101.8299	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2010	31	10957	121.65	223.294988	-101.64499	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2011	32	10963	121.87	222.845343	-100.97534	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2011	32	10968	122.05	222.300744	-100.25074	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2011	32	10973	122.11	221.756144	-99.646144	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2011	32	10978	122.28	221.211545	-98.931545	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2011	32	10983	122.52	220.666946	-98.146946	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2011	32	10988	122.77	220.122346	-97.352346	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2011	32	10994	122.97	219.468827	-96.498827	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2011	32	10999	123.11	218.924228	-95.814228	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2011	32	11004	123.18	218.379628	-95.199628	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2011	32	11009	123.36	217.891556	-94.531556	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2011	32	11014	123.52	217.644102	-94.124102	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/6/2011	32	11022	123.78	217.248175	-93.468175	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2011	32	11027	123.96	217.00072	-93.04072	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2011	32	11032	124.12	216.753266	-92.633266	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2011	32	11037	124.24	216.505811	-92.265811	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2011	32	11042	124.37	216.258357	-91.888357	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2011	32	11047	124.47	216.010903	-91.540903	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2011	32	11053	124.52	215.713957	-91.193957	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2011	32	11058	124.59	215.466503	-90.876503	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2011	32	11063	124.78	215.219049	-90.439049	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2011	32	11068	124.77	214.993623	-90.223623	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2011	32	11073	124.68	214.84696	-90.16696	-145	-155	555

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2011	32	11078	124.61	214.700297	-90.090297	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2011	32	11083	124.57	214.553634	-89.983634	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2011	32	11088	124.56	214.40697	-89.84697	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2011	32	11093	124.51	214.260307	-89.750307	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2011	32	11098	124.46	214.113644	-89.653644	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2011	32	11103	124.44	213.966981	-89.526981	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2011	32	11108	124.42	213.820318	-89.400318	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2011	32	11114	124.17	213.644323	-89.474323	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2011	32	11119	123.97	213.49766	-89.52766	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2011	32	11124	123.91	213.350997	-89.440997	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2011	32	11139	122.53	212.923164	-90.393164	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2011	32	11144	122.25	212.81805	-90.56805	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2011	32	11154	121.15	212.607822	-91.457822	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2011	32	11159	120.9	212.502708	-91.602708	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2011	32	11164	120.51	212.397594	-91.887594	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2011	32	11169	120.14	212.29248	-92.15248	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2011	32	11175	119.58	212.166343	-92.586343	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2011	32	11180	119.05	212.061229	-93.011229	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2011	32	11185	118.58	211.956115	-93.376115	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2011	32	11195	117.78	211.745887	-93.965887	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2011	32	11200	118.01	211.640773	-93.630773	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2011	32	11206	117.49	211.514637	-94.024637	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2011	32	11211	117.34	211.409523	-94.069523	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2011	32	11216	116.97	211.304409	-94.334409	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2011	32	11221	116.53	211.199295	-94.669295	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2011	32	11226	116.16	211.111146	-94.951146	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2011	32	11231	116.59	211.028915	-94.438915	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2011	32	11236	116.37	210.946684	-94.576684	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2011	32	11241	116	210.864453	-94.864453	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2011	32	11246	115.93	210.782223	-94.852223	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2011	32	11251	115.93	210.699992	-94.769992	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2011	32	11256	116.22	210.617761	-94.397761	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2011	32	11261	116.15	210.53553	-94.38553	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2011	32	11267	116.3	210.436852	-94.136852	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2011	32	11272	116.59	210.354622	-93.764622	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2011	32	11277	116.37	210.272391	-93.902391	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2011	32	11282	116.67	210.19016	-93.52016	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2011	32	11287	116.96	210.107929	-93.147929	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/30/2011	32	11291	115.22	210.042144	-94.822144	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2011	32	11292	117.19	210.025698	-92.835698	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2011	32	11297	116.96	209.943467	-92.983467	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2011	32	11302	117.63	209.861236	-92.231236	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2011	32	11307	117.71	209.779005	-92.069005	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2011	32	11312	117.71	209.696774	-91.986774	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2011	32	11317	118.6	209.614543	-91.014543	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2011	32	11322	118.52	209.532312	-91.012312	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2012	33	11328	119.26	209.813428	-90.553428	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2012	33	11333	119.19	210.205938	-91.015938	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2012	33	11338	119.93	210.598449	-90.668449	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2012	33	11343	119.78	210.99096	-91.21096	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2012	33	11348	119.93	211.38347	-91.45347	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2012	33	11353	120.6	211.775981	-91.175981	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2012	33	11359	120.67	212.246993	-91.576993	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2012	33	11364	120.9	212.639504	-91.739504	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2012	33	11369	120.67	213.032014	-92.362014	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2012	33	11374	121.19	213.376979	-92.186979	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2012	33	11379	121.56	213.519556	-91.959556	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/29/2012	33	11382	121.56	213.605102	-92.045102	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2012	33	11393	122.16	213.91877	-91.75877	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2012	33	11398	122.23	214.061347	-91.831347	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2012	33	11403	121.71	214.203924	-92.493924	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2012	33	11408	122.45	214.346501	-91.896501	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2012	33	11413	122.38	214.489077	-92.109077	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2012	33	11419	122.45	214.660169	-92.210169	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/11/2012	33	11424	122.75	214.802746	-92.052746	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2012	33	11429	122.45	214.945323	-92.495323	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2012	33	11434	122.6	215.056051	-92.456051	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2012	33	11439	122.75	215.122535	-92.372535	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2012	33	11444	122.82	215.18902	-92.36902	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2012	33	11449	122.9	215.255505	-92.355505	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2012	33	11454	122.82	215.32199	-92.50199	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2012	33	11459	122.75	215.388474	-92.638474	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2012	33	11464	122.53	215.454959	-92.924959	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2012	33	11469	122.16	215.521444	-93.361444	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2012	33	11474	121.79	215.587929	-93.797929	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2012	33	11480	121.56	215.66771	-94.10771	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2012	33	11485	121.19	215.734195	-94.544195	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2012	33	11490	119.96	215.80068	-95.84068	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2012	33	11495	119.74	215.867165	-96.127165	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2012	33	11500	119.82	215.933649	-96.113649	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2012	33	11505	119.59	215.9876	-96.3976	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2012	33	11510	119.3	216.028639	-96.728639	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2012	33	11515	118.78	216.069677	-97.289677	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2012	33	11520	121.3	216.110716	-94.810716	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2012	33	11525	121.08	216.151754	-95.071754	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2012	33	11530	120.71	216.192793	-95.482793	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2012	33	11535	120.48	216.233832	-95.753832	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2012	33	11541	119.74	216.283078	-96.543078	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2012	33	11546	119.07	216.324117	-97.254117	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2012	33	11551	118.78	216.365155	-97.585155	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2012	33	11556	118.48	216.406194	-97.926194	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2012	33	11561	118.26	216.447232	-98.187232	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2012	33	11566	117.96	216.488271	-98.528271	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2012	33	11572	118.11	216.537517	-98.427517	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2012	33	11577	117.96	216.578556	-98.618556	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2012	33	11582	117.74	216.619595	-98.879595	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2012	33	11587	117.74	216.660633	-98.920633	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2012	33	11592	117.67	216.69017	-99.02017	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2012	33	11597	117.15	216.718991	-99.568991	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2012	33	11602	117.52	216.747812	-99.227812	-145	-155	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2012	33	11607	117.22	216.776632	-99.556632	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2012	33	11612	116.56	216.805453	-100.24545	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2012	33	11617	116.26	216.834274	-100.57427	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2012	33	11622	116.48	216.863095	-100.3831	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2012	33	11627	116.41	216.891916	-100.48192	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2012	33	11633	115.74	216.926501	-101.1865	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/9/2012	33	11636	114.1	216.943793	-102.84379	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2012	33	11638	112.66	216.955322	-104.29532	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2012	33	11643	114.96	216.984143	-102.02414	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2012	33	11653	114.96	217.041784	-102.08178	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2012	33	11658	115.25	217.070605	-101.82061	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2012	33	11663	113.47	217.099426	-103.62943	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2012	33	11668	113.62	217.128247	-103.50825	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2012	33	11673	115.03	217.157068	-102.12707	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2012	33	11678	113.62	217.185888	-103.56589	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2012	33	11683	112.36	217.214709	-104.85471	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2012	33	11688	113.99	217.24353	-103.25353	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/6/2013	34	11694	116.44	217.618071	-101.17807	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/11/2013	34	11699	114.29	217.986849	-103.69685	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/16/2013	34	11704	113.18	218.355626	-105.17563	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/21/2013	34	11709	114.22	218.724403	-104.5044	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/26/2013	34	11714	114.48	219.09318	-104.61318	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	1/31/2013	34	11719	114.33	219.461958	-105.13196	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/6/2013	34	11725	114.89	219.90449	-105.01449	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/11/2013	34	11730	114.78	220.273267	-105.49327	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/16/2013	34	11735	115.03	220.642045	-105.61205	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/21/2013	34	11740	115.41	220.944956	-105.53496	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	2/26/2013	34	11745	116.81	221.144948	-104.33495	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/11/2013	34	11758	115.13	221.664928	-106.53493	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/16/2013	34	11763	114.76	221.86492	-107.10492	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/21/2013	34	11768	115.13	222.064912	-106.93491	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/26/2013	34	11773	116.84	222.264904	-105.4249	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	3/31/2013	34	11778	115.13	222.464896	-107.3349	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/6/2013	34	11784	115.8	222.704887	-106.90489	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/9/2013	34	11787	117.45	222.824882	-105.37488	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/16/2013	34	11794	117.59	223.104871	-105.51487	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/21/2013	34	11799	118.1	223.279058	-105.17906	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	4/26/2013	34	11804	118.17	223.417396	-105.2474	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/1/2013	34	11809	117.88	223.555735	-105.67574	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/6/2013	34	11814	117.88	223.694073	-105.81407	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/11/2013	34	11819	117.88	223.832412	-105.95241	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/16/2013	34	11824	117.95	223.97075	-106.02075	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/21/2013	34	11829	117.73	224.109089	-106.37909	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/26/2013	34	11834	117.88	224.247427	-106.36743	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	5/31/2013	34	11839	117.59	224.385765	-106.79577	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/6/2013	34	11845	117.59	224.551772	-106.96177	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/11/2013	34	11850	118.03	224.69011	-106.66011	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/16/2013	34	11855	117.66	224.828448	-107.16845	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/21/2013	34	11860	117.37	224.966787	-107.59679	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	6/26/2013	34	11865	116.92	225.105125	-108.18513	-145	-155	555

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/1/2013	34	11870	116.63	225.228858	-108.59886	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/6/2013	34	11875	116.19	225.337545	-109.14755	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/11/2013	34	11880	115.82	225.446232	-109.62623	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/16/2013	34	11885	116.12	225.554918	-109.43492	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/21/2013	34	11890	115.68	225.663605	-109.98361	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/26/2013	34	11895	115.68	225.772292	-110.09229	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	7/31/2013	34	11900	115.31	225.880979	-110.57098	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/6/2013	34	11906	115.16	226.011403	-110.8514	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/11/2013	34	11911	115.31	226.12009	-110.81009	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/16/2013	34	11916	114.35	226.228776	-111.87878	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/21/2013	34	11921	114.28	226.337463	-112.05746	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/26/2013	34	11926	113.98	226.44615	-112.46615	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	8/31/2013	34	11931	113.69	226.554837	-112.86484	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/6/2013	34	11937	113.4	226.685261	-113.28526	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/11/2013	34	11942	113.18	226.793948	-113.61395	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/16/2013	34	11947	112.96	226.902634	-113.94263	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/21/2013	34	11952	112.74	227.011321	-114.27132	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	9/26/2013	34	11957	112.52	227.100272	-114.58027	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/1/2013	34	11962	112.74	227.187995	-114.448	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/6/2013	34	11967	112.74	227.275717	-114.53572	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/11/2013	34	11972	112.96	227.36344	-114.40344	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/16/2013	34	11977	113.03	227.451163	-114.42116	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/21/2013	34	11982	113.18	227.538885	-114.35889	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/26/2013	34	11987	113.47	227.626608	-114.15661	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	10/31/2013	34	11992	113.32	227.71433	-114.39433	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/6/2013	34	11998	113.62	227.819597	-114.1996	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/11/2013	34	12003	113.91	227.90732	-113.99732	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/16/2013	34	12008	113.84	227.995043	-114.15504	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/21/2013	34	12013	113.91	228.082765	-114.17277	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	11/26/2013	34	12018	114.5	228.170488	-113.67049	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/1/2013	34	12023	114.43	228.25821	-113.82821	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/6/2013	34	12028	113.76	228.345933	-114.58593	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/11/2013	34	12033	114.57	228.433655	-113.86366	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/16/2013	34	12038	114.72	228.521378	-113.80138	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/21/2013	34	12043	114.43	228.609101	-114.1791	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/26/2013	34	12048	115.16	228.696823	-113.53682	-145	-155	555
3430907	6378098.284	20183409.2	48	100	1324675	471916	6	12/31/2013	34	12053	114.87	228.784546	-113.91455	-145	-155	555
3430908	6376220.029	20183328.92	48	99	1324674	471915	6	3/26/1987	8	2276	189	222.192357	-33.192357	-196	-234	554
3430908	6376220.029	20183328.92	48	99	1324674	471915	6	11/11/1988	9	2872	183.08	196.615813	-13.535813	-196	-234	554
3430908	6376220.029	20183328.92	48	99	1324674	471915	6	4/6/2006	27	9227	145	202.948942	-57.948942	-196	-234	554
3431221	6398126.807	20204746.13	47	105	1421649	508323	7	4/8/1989	10	3020	75	189.679106	-114.67911	-378	-380	365
3431222	6399235.932	20204794.33	47	105	1324209	471748	6	4/8/1989	10	3020	60	149.710934	-89.710934	-300	-330	350
3431505	6396411.898	20200921.58	47	104	1324208	471747	6	7/28/1983	4	939	156	203.311653	-47.311653	-373	-373	310
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	8/25/1989	10	3159	151	241.562464	-90.562464	-380	-380	300
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	6/24/1992	13	4193	170.88	257.617568	-86.737568	-380	-380	300
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	9/24/1992	13	4285	164.47	258.502835	-94.032835	-380	-380	300
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	6/15/1994	15	4914	167.57	249.193522	-81.623522	-380	-380	300
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	11/8/1997	18	6156	150	243.12531	-93.12531	-380	-380	300
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	11/18/2000	21	7262	135.76	249.691135	-113.93114	-380	-380	300
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	11/13/2001	22	7622	136.05	247.598426	-111.54843	-380	-380	300

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	11/21/2002	23	7995	135.58	248.072503	-112.4925	-380	-380	300
3431506	6397537.087	20198639.28	48	104	1324679	471920	6	11/14/2003	24	8353	134.62	245.326759	-110.70676	-380	-380	300
3431507	6397651.284	20196009.16	48	104	1324679	471920	6	8/3/1989	10	3137	144	210.84443	-66.84443	-445	-455	305
3431507	6397651.284	20196009.16	48	104	1324679	471920	6	9/19/1990	11	3549	157	226.463815	-69.463815	-445	-455	305
3431701	6388125.645	20178975.11	50	101	1096802	404005	4	3/17/1981	2	76	318	324.972252	-6.972252		314	353
3431804	6398157.469	20176470.08	51	102	1509021	556659	8	11/15/1988	9	2876	231.08	221.855997	9.224003	-740	-750	390
3431902	6415450.976	20185941.67	51	106	1423342	509107	7	11/5/2010	31	10901	316.1	256.492851	59.607149	-388	-388	375
3431902	6415450.976	20185941.67	51	106	1423342	509107	7	11/30/2011	32	11291	308.76	246.152758	62.607242	-388	-388	375
3431902	6415450.976	20185941.67	51	106	1423342	509107	7	11/13/2013	34	12005	314.43	258.39469	56.03531	-388	-388	375
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	3/18/1981	2	77	269.4	262.344855	7.055145	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/11/1981	2	315	258.26	259.673415	-1.413415	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/18/1982	3	687	257.99	256.934542	1.055458	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/16/1983	4	1050	262.91	256.220951	6.689049	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/8/1984	5	1408	258.4	255.246681	3.153319	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/19/1986	7	2149	237.03	251.206867	-14.176867	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	2/11/1988	9	2598	262.36	244.167909	18.192091	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	10/18/1988	9	2848	257	237.389023	19.610977	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	10/19/1989	10	3214	253.08	251.745536	1.334464	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/14/1991	12	3970	257.46	259.393891	-1.933891	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/11/1993	14	4698	269.22	255.591221	13.628779	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/15/1994	15	5067	272.25	250.912622	21.337378	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/15/1995	16	5432	271.6	251.875512	19.724488	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/19/1996	17	5802	268.96	246.676334	22.283666	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/8/1997	18	6156	241.25	249.630744	-8.380744	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	12/19/1998	19	6562	236.79	247.562418	-10.772418	-140	-140	365
3432403	6423043.777	20203810.5	49	109	1325197	472086	6	11/17/1999	20	6895	230.4	252.49172	-22.09172	-140	-140	365
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	3/13/1981	2	72	456.8	422.717988	34.082012	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/13/1981	2	317	452.33	422.543931	29.786069	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/7/1985	6	1772	447.31	421.427261	25.882739	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/7/1986	7	2137	448	415.328692	32.671308	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	2/18/1988	9	2605	437.75	419.017479	18.732521	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	12/21/1988	9	2912	442.7	413.981208	28.718792	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	10/25/1990	11	3585	439.6	418.769271	20.830729	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	12/7/1991	12	3993	433.7	417.032918	16.667082	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/10/1992	13	4332	435	419.323249	15.676751	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	10/9/1993	14	4665	433.7	416.609213	17.090787	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	1/13/1995	16	5126	441.4	410.611922	30.788078	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/15/1996	17	5798	436.48	406.631121	29.848879	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/7/1997	18	6155	432.18	407.086534	25.093466	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/14/1998	19	6527	423.29	406.203181	17.086819	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/12/1999	20	6890	414.2	414.39132	-0.19132	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/17/2000	21	7261	410.3	417.867995	-7.567995	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/29/2001	22	7638	406.9	414.285211	-7.385211	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/5/2004	25	8710	416.17	411.143157	5.026843	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	12/13/2005	26	9113	409.54	417.332889	-7.792889	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/28/2007	28	9828	407.14	414.928827	-7.788827	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/5/2008	29	10171	406.65	413.632861	-6.982861	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/12/2009	30	10543	407.31	412.799135	-5.489135	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/2/2010	31	10898	404.6	410.908181	-6.308181	166	166	555
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/14/2012	33	11641	385.75	406.715585	-20.965585	166	166	555

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3433302	6187379.805	20149735.28	36	65	1573013	603920	9	11/14/2013	34	12006	385.78	411.194879	-25.414879	166	166	555
3433303	6188549.845	20150488.38	36	65	1573013	603920	9	3/17/1989	10	2998	442.5	422.130221	20.369779	125	83	545
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/13/1981	2	317	422.98	447.039591	-24.059591	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/16/1983	4	1050	421.45	446.147932	-24.697932	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/16/1984	5	1416	419.75	448.892715	-29.142715	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/7/1985	6	1772	418.86	439.090678	-20.230678	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/7/1986	7	2137	419.46	441.82842	-22.36842	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	2/18/1988	9	2605	418.66	440.919486	-22.259486	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	12/21/1988	9	2912	416.63	445.482186	-28.852186	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/30/1989	10	3256	416.3	447.933129	-31.633129	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	10/25/1990	11	3585	415.35	446.533487	-31.183487	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	12/7/1991	12	3993	414.5	444.50227	-30.00227	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/10/1992	13	4332	415.1	447.594574	-32.494574	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	10/9/1993	14	4665	414.1	444.358959	-30.258959	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	1/13/1995	16	5126	413.96	439.798834	-25.838834	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/10/1995	16	5427	413.2	442.722964	-29.522964	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/15/1996	17	5798	411.42	438.94642	-27.52642	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/7/1997	18	6155	409.71	440.414167	-30.704167	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/14/1998	19	6527	409	440.309549	-31.309549	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/12/1999	20	6890	407.2	446.153795	-38.953795	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/29/2001	22	7638	406.25	444.396714	-38.146714	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/15/2002	23	7989	405.94	443.78125	-37.84125	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/14/2003	24	8353	404.68	443.738987	-39.058987	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/5/2004	25	8710	404.7	442.245255	-37.545255	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	12/13/2005	26	9113	401.5	444.942176	-43.442176	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/9/2006	27	9444	397.8	443.408108	-45.608108	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/28/2007	28	9828	399.34	442.860403	-43.520403	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/5/2008	29	10171	399.4	442.14073	-42.74073	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/12/2009	30	10543	399.67	440.767915	-41.097915	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/2/2010	31	10898	398	439.81759	-41.81759	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	12/3/2011	32	11294	392.5	437.134829	-44.634829	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/14/2012	33	11641	393.51	437.634999	-44.124999	180	180	480
3433401	6165174.353	20143850.51	35	61	1572757	603727	9	11/14/2013	34	12006	392.65	441.809927	-49.159927	180	180	480
3433502	6174316.403	20141956.51	37	62	1504523	553818	8	12/9/1988	9	2900	532	422.563295	109.43671	505	500	545
3433502	6174316.403	20141956.51	37	62	1504523	553818	8	3/21/1989	10	3002	531.15	422.907508	108.24249	505	500	545
3433502	6174316.403	20141956.51	37	62	1504523	553818	8	4/26/1994	15	4864	531.08	420.11269	110.96731	505	500	545
3433702	6157039.659	20127443.74	37	58	1573257	604101	9	6/17/1998	19	6377	391.3	412.248019	-20.948019	180		430
3433801	6172253.563	20130531.99	38	61	1504818	554002	8	3/14/1981	2	73	504.04	436.759634	67.280366		470	520
3433801	6172253.563	20130531.99	38	61	1504818	554002	8	11/13/1981	2	317	504.9	437.179702	67.720298		470	520
3433801	6172253.563	20130531.99	38	61	1504818	554002	8	11/16/1983	4	1050	504.96	436.314261	68.645739		470	520
3433801	6172253.563	20130531.99	38	61	1504818	554002	8	11/16/1984	5	1416	503.38	438.129578	65.250422		470	520
3433801	6172253.563	20130531.99	38	61	1504818	554002	8	11/7/1986	7	2137	505.69	431.58231	74.10769		470	520
3433905	6187711.308	20131609.79	39	63	1573839	604536	9	3/17/1989	10	2998	409.75	411.013807	-1.263807	199	195	535
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/13/1981	2	317	574.22	465.934672	108.28533	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/16/1983	4	1050	579.98	464.047008	115.93299	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/15/1984	5	1415	578.89	468.725733	110.16427	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/7/1986	7	2137	579.13	457.303393	121.82661	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	12/21/1988	9	2912	577.72	464.319559	113.40044	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/30/1989	10	3256	579.8	469.086152	110.71385	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	10/25/1990	11	3585	581.5	467.780029	113.71997	553	553	595

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	12/7/1991	12	3993	582.3	465.718692	116.58131	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/10/1992	13	4332	581.9	471.242292	110.65771	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	10/9/1993	14	4665	580.8	466.169995	114.63001	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/10/1995	16	5427	582	463.939668	118.06033	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/7/1997	18	6155	580.01	461.143797	118.8662	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/14/1998	19	6527	581.7	462.209729	119.49027	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/12/1999	20	6890	579.4	468.500302	110.8997	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/17/2000	21	7261	578	468.679614	109.32039	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/29/2001	22	7638	582.4	466.3807	116.0193	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/15/2002	23	7989	579.98	464.880455	115.09955	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/14/2003	24	8353	577.98	466.580533	111.39947	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/5/2004	25	8710	577.34	466.164148	111.17585	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	12/13/2005	26	9113	575.96	466.196203	109.7638	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/9/2006	27	9444	575.05	463.407031	111.64297	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/27/2007	28	9827	584.8	461.206278	123.59372	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/5/2008	29	10171	583.25	460.125254	123.12475	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/12/2009	30	10543	587.02	456.756555	130.26345	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/2/2010	31	10898	581.15	455.161982	125.98802	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	12/3/2011	32	11294	576.01	450.977531	125.03247	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/14/2012	33	11641	578.9	451.106794	127.79321	553	553	595
3434101	6195567.803	20161896.29	35	67	1416700	504952	7	11/14/2013	34	12006	575.97	458.071469	117.89853	553	553	595
3434601	6223434.016	20146839	40	71	1505509	554397	8	3/14/1981	2	73	462.26	393.212899	67.047101		79	530
3434601	6223434.016	20146839	40	71	1505509	554397	8	11/13/1981	2	317	460.14	392.393255	67.746745		79	530
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	3/14/1981	2	73	487.91	420.188418	67.721582		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/13/1981	2	317	488.37	419.559721	68.810279		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/16/1983	4	1050	488.92	417.754477	71.165523		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/16/1984	5	1416	487.8	419.249938	68.550062		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/9/1986	7	2139	489.67	409.325359	80.344641		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	2/18/1988	9	2605	493.5	409.776024	83.723976		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	12/21/1988	9	2912	488.3	414.399758	73.900242		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/30/1989	10	3256	488.4	417.673267	70.726733		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	10/25/1990	11	3585	488.6	417.401897	71.198103		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	12/7/1991	12	3993	490.5	416.735544	73.764456		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/10/1992	13	4332	489	419.994105	69.005895		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	10/9/1993	14	4665	487.9	416.08775	71.81225		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/10/1995	16	5427	487.3	414.817017	72.482983		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/22/1996	17	5805	485.51	409.69218	75.81782		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/7/1997	18	6155	486.98	412.595025	74.384975		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/14/1998	19	6527	489.08	412.878063	76.201937		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/12/1999	20	6890	486.3	416.805845	69.494155		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/17/2000	21	7261	486.4	419.015446	67.384554		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/16/2002	23	7990	487.14	417.40677	69.73323		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/14/2003	24	8353	487.16	418.318436	68.841564		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/4/2004	25	8709	489	417.127988	71.872012		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	12/13/2005	26	9113	486.44	417.041812	69.398188		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/9/2006	27	9444	484.23	414.177441	70.052559		472	500
3434801	6216926.545	20124398.98	43	68	1322714	471006	6	11/27/2007	28	9827	489.67	413.677714	75.992286		472	500
3434802	6216326.728	20122146.88	44	67	1506565	555083	8	1/31/1988	9	2587	400	382.255547	17.44453	-35	-40	485
3434802	6216326.728	20122146.88	44	67	1506565	555083	8	3/17/1989	10	2998	407.9	387.390762	20.509238	-35	-40	485
3434905	6218194.612	20127081.81	43	68	1506329	554913	8	3/17/1989	10	2998	404.5	391.631716	12.868284	25	25	505

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3434906	6218023.755	20127075.31	43	68	1420283	507497	7	1/1/1981	2	1	450	422.556569	27.443431	145	145	505
3434906	6218023.755	20127075.31	43	68	1420283	507497	7	3/17/1989	10	2998	409.5	416.857647	-7.357647	145	145	505
3434907	6225979.294	20120589.64	45	69	1420920	507907	7	11/15/1988	9	2876	390	394.108308	-4.108308	75	75	475
3434907	6225979.294	20120589.64	45	69	1420920	507907	7	3/21/1989	10	3002	427	406.530696	20.469304	75	75	475
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	3/14/1981	2	73	381.86	368.155807	13.704193		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	11/13/1981	2	317	384.53	360.353555	24.176445		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	11/11/1983	4	1045	384.47	355.631796	28.838204		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	11/7/1985	6	1772	379.69	353.773942	25.916058		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	11/9/1986	7	2139	377.55	345.491158	32.058842		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	2/18/1988	9	2605	375.75	341.405213	34.344787		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	12/21/1988	9	2912	374.31	340.165421	34.144579		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	12/5/1989	10	3261	368.4	350.611069	17.788931		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	10/31/1990	11	3591	367.1	355.21688	11.88312		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	12/7/1991	12	3993	364.5	354.365209	10.134791		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	11/10/1992	13	4332	363.8	359.184276	4.615724		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	10/9/1993	14	4665	359.3	352.873128	6.426872		134	470
3435301	6263888.728	20156314.52	42	78	1506111	554762	8	11/11/1995	16	5428	358.4	346.881801	11.518199		134	470
3435302	6266555.811	20153785.11	43	78	1574907	605339	9	6/23/1985	6	1635	345	340.4311	4.5689	-220	-230	480
3435302	6266555.811	20153785.11	43	78	1574907	605339	9	3/18/1989	10	2999	303.5	316.741771	-13.241771	-220	-230	480
3435303	6264989.787	20154432.83	43	78	1574907	605339	9	3/18/1989	10	2999	333.9	329.493574	4.406426	-195	-195	485
3435304	6265861.908	20156189.56	43	79	1322737	471029	6	1/1/1981	2	1	458	398.022892	59.977108	410	410	470
3435305	6265861.908	20156189.56	43	79	1420297	507511	7	1/1/1981	2	1	449	395.779575	53.220425	260	250	470
3435307	6261363.223	20153073.59	43	78	1506339	554923	8	2/9/1988	9	2596	332	336.959914	-4.959914	-174	-175	515
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	11/13/1981	2	317	397.17	396.437567	0.732433		160	520
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	11/11/1983	4	1045	393.7	391.428921	2.271079		160	520
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	11/15/1984	5	1415	396.78	393.761709	3.018291		160	520
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	11/7/1985	6	1772	409.69	390.121607	19.568393		160	520
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	11/9/1986	7	2139	414.41	379.49851	34.91149		160	520
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	2/18/1988	9	2605	417.1	376.108701	40.991299		160	520
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	12/21/1988	9	2912	416.94	379.487778	37.452222		160	520
3435501	6244000.251	20146212.93	42	74	1420010	507296	7	11/30/1989	10	3256	416.4	388.212168	28.187832		160	520
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/13/1981	2	317	577.71	495.121258	82.588742	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/11/1983	4	1045	573.51	494.462474	79.047526	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/7/1985	6	1772	576.39	495.674703	80.715297	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/9/1986	7	2139	580.13	488.925019	91.204981	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	12/21/1988	9	2912	579.44	498.027673	81.412327	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/30/1989	10	3256	572.8	499.685716	73.114284	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	10/31/1990	11	3591	577.4	497.077418	80.322582	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	12/7/1991	12	3993	581.5	495.476646	86.023354	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/10/1992	13	4332	576.2	499.981613	76.218387	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	8/14/1993	14	4609	576.8	495.441529	81.358471	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	10/9/1993	14	4665	576	494.80112	81.19888	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	1/13/1995	16	5126	582.97	491.133321	91.836679	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/11/1995	16	5428	575.2	496.705417	78.494583	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/6/1997	18	6154	576.6	495.64421	80.95579	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/18/1998	19	6531	581.23	495.599047	85.630953	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/12/1999	20	6890	578.1	499.852388	78.247612	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/17/2000	21	7261	577.75	498.244314	79.505686	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/29/2001	22	7638	577.42	495.959393	81.460607	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/16/2002	23	7990	574.7	495.583584	79.116416	553	553	585

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/14/2003	24	8353	577.42	497.316111	80.103889	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/4/2004	25	8709	577.8	496.731227	81.068773	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	12/13/2005	26	9113	572.16	496.859505	75.300495	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/9/2006	27	9444	570.4	494.624972	75.775028	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/28/2007	28	9828	576.61	493.84505	82.76495	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/5/2008	29	10171	574.7	493.487881	81.212119	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/2/2010	31	10898	573.75	491.263643	82.486357	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	12/3/2011	32	11294	569.88	488.636809	81.243191	553	553	585
3435503	6249295.397	20139933.56	44	74	1091618	400774	4	11/14/2012	33	11641	574.44	490.390263	84.049737	553	553	585
3436106	6278749.218	20163491.05	43	81	1506342	554926	8	12/24/1988	9	2915	330	319.053479	10.946521	-70	-75	465
3436106	6278749.218	20163491.05	43	81	1506342	554926	8	4/18/1989	10	3030	380.6	337.879675	42.720325	-70	-75	465
3436204	6286685.591	20166139	43	83	1322762	471054	6	6/19/2002	23	7840	470	390.258987	79.741013	395	385	507
3436205	6286661.239	20166746.18	43	83	1322762	471054	6	12/20/2002	23	8024	467	388.767446	78.232554	384	374	496
3436305	6298408.704	20163976.57	44	85	1506583	555101	8	4/15/1987	8	2296	334	279.438832	54.561168	-361	-361	568
3436305	6298408.704	20163976.57	44	85	1506583	555101	8	11/8/1988	9	2869	328	258.387766	69.612234	-361	-361	568
3436306	6299080.025	20164308	44	85	1420579	507707	7	1/24/1986	7	1850	265	279.612976	-14.612976	-205	-221	535
3436306	6299080.025	20164308	44	85	1420579	507707	7	4/15/1987	8	2296	190	250.059088	-60.059088	-205	-221	535
3436306	6299080.025	20164308	44	85	1420579	507707	7	11/8/1988	9	2869	165	205.580195	-40.580195	-205	-221	535
3436307	6293438.083	20162053.1	44	84	1506582	555100	8	12/22/1985	6	1817	257	283.986091	-26.986091	-468	-498	482
3436307	6293438.083	20162053.1	44	84	1506582	555100	8	4/17/1987	8	2298	172	252.669791	-80.669791	-468	-498	482
3436307	6293438.083	20162053.1	44	84	1506582	555100	8	11/12/1988	9	2873	192	245.618008	-53.618008	-468	-498	482
3436311	6299508.245	20160068.87	45	84	1092483	401330	4	6/14/2006	27	9296	513.9	450.905255	62.994745	510		534
3436703	6275337.468	20122312.27	49	77	1325165	472054	6	3/21/1989	10	3002	320	304.391221	15.608779	-25	-35	515
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/13/1981	2	317	487.21	409.058988	78.151012		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/16/1983	4	1050	494.61	408.403486	86.206514		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/15/1984	5	1415	494.34	411.469099	82.870901		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/9/1986	7	2139	498.85	403.865937	94.984063		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	2/18/1988	9	2605	499.7	406.511614	93.188386		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	12/20/1988	9	2911	497.49	410.963423	86.526577		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/30/1989	10	3256	495.3	412.68838	82.61162		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	10/31/1990	11	3591	496.1	410.663503	85.436497		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	12/7/1991	12	3993	500.7	409.345198	91.354802		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/10/1992	13	4332	499.1	413.279813	85.820187		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	10/9/1993	14	4665	500.5	408.638418	91.861582		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	1/13/1995	16	5126	499.76	405.577163	94.182837		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/11/1995	16	5428	500.4	410.212728	90.187272		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/22/1996	17	5805	493.58	405.642663	87.937337		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/6/1997	18	6154	493.1	409.401672	83.698328		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/18/1998	19	6531	497	409.274975	87.725025		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/12/1999	20	6890	491.5	413.083276	78.416724		489	530
3436803	6289620.809	20129267.74	49	80	1095881	403416	4	11/29/2001	22	7638	495.65	409.93426	85.71574		489	530
3436903	6303217.983	20125560.01	51	82	1325956	472363	6	1/1/1981	2	1	371	308.787842	62.212158	33	26	491
3436904	6300416.137	20127067.82	51	82	1509001	556639	8	7/9/2005	26	8956	182	218.492054	-36.492054	-423	-460	542
3437104	6316436.712	20164609.38	46	88	1421284	508124	7	11/21/1984	5	1421	193	239.31902	-46.31902	-328	-350	460
3437104	6316436.712	20164609.38	46	88	1421284	508124	7	11/10/1988	9	2871	183	196.300138	-13.300138	-328	-350	460
3437105	6307703.252	20164759.24	45	86	1420940	507927	7	1/1/1981	2	1	354	292.185538	61.814462	-52	-57	590
3437105	6307703.252	20164759.24	45	86	1420940	507927	7	4/18/1989	10	3030	320	249.767824	70.232176	-52	-57	590
3437106	6311903.858	20154086.98	47	86	1094102	402439	4	6/24/2001	22	7480	511	464.498555	46.501445	429	429	589
3437202	6318942.807	20164002.95	46	88	1421284	508124	7	11/10/1988	9	2871	245	219.926979	25.073021	-487	-488	492
3437203	6320049.41	20164149.84	46	88	1323814	471542	6	11/10/1988	9	2871	310	251.0789	58.9211	-70	-100	550

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3437204	6331677.193	20156116.8	49	89	1095914	403449	4	9/24/1985	6	1728	400	405.378921	-5.378921	250	240	440
3437204	6331677.193	20156116.8	49	89	1095914	403449	4	4/19/1989	10	3031	430.6	406.584316	24.015684	250	240	440
3437205	6321584.762	20162185.92	47	88	1507501	555761	8	9/21/1990	11	3551	77	263.676017	-186.67602	-769	-783	567
3437205	6321584.762	20162185.92	47	88	1507501	555761	8	3/27/1998	19	6295	47	243.219438	-196.21944	-769	-783	567
3437304	6340563.982	20158512.87	49	91	1422577	508743	7	1/10/1999	20	6584	125	203.550426	-78.550426		-415	500
3437304	6340563.982	20158512.87	49	91	1422577	508743	7	5/27/1999	20	6721	115	209.798757	-94.798757		-415	500
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/12/1981	2	316	390.54	241.029145	149.51086	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/11/1983	4	1045	389.32	236.022328	153.29767	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/16/1984	5	1416	385.36	231.266701	154.0933	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/5/1985	6	1770	387.71	229.856781	157.85322	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/12/1986	7	2142	388.2	228.699844	159.50016	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	12/16/1987	8	2541	388.75	218.526611	170.22339	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	10/20/1989	10	3215	387.55	219.643736	167.90626	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	9/19/1990	11	3549	388.5	239.077418	149.42258	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/15/1991	12	3971	388.8	233.959087	154.84091	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	12/10/1992	13	4362	388.62	235.03603	153.58397	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	9/11/1993	14	4637	386.05	225.001993	161.04801	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	12/11/1993	14	4728	388.05	223.384647	164.66535	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	1/25/1995	16	5138	388	220.969497	167.0305	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/12/1995	16	5429	382	214.304267	167.69573	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/22/1996	17	5805	383.23	206.488155	176.74185	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/20/1997	18	6168	378.7	214.437182	164.26282	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/18/1998	19	6531	374.83	205.973032	168.85697	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/10/1999	20	6888	372.7	215.522284	157.17772	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/27/2001	22	7636	375.4	221.242472	154.15753	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/15/2002	23	7989	373.94	228.068117	145.87188	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/19/2003	24	8358	372.84	229.542885	143.29712	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	12/14/2005	26	9114	371.86	222.225182	149.63482	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/10/2006	27	9445	363.75	207.148873	156.60113	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/8/2007	28	9808	363.71	217.92605	145.78395	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/13/2008	29	10179	371.8	209.898127	161.90187	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/13/2009	30	10544	369.54	218.624784	150.91522	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/4/2010	31	10900	369.65	207.960235	161.68977	158	155	485
3437305	6335276.745	20166299.08	47	91	1324195	471734	6	11/30/2011	32	11291	363.93	190.812925	173.11708	158	155	485
3437307	6340389.91	20160633.78	49	91	1422577	508743	7	4/10/1987	8	2291	123	168.127398	-45.127398	-450	-460	490
3437307	6340389.91	20160633.78	49	91	1422577	508743	7	11/11/1988	9	2872	105	124.821318	-19.821318	-450	-460	490
3437308	6337876.299	20157286.31	49	91	1422577	508743	7	11/10/1988	9	2871	215	179.015788	35.984212	-355	-355	545
3437309	6333003.982	20165393.97	47	91	1421635	508309	7	12/8/1981	2	342	144	242.510189	-98.510189	-444	-444	535
3437309	6333003.982	20165393.97	47	91	1421635	508309	7	11/11/1988	9	2872	60	157.997609	-97.997609	-444	-444	535
3437310	6341076.701	20158534.25	49	91	1422577	508743	7	4/17/1987	8	2298	142.35	190.209167	-47.859167	-399	-400	500
3437310	6341076.701	20158534.25	49	91	1422577	508743	7	11/15/1988	9	2876	110.6	131.389284	-20.789284	-399	-400	500
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	7/1/1989	10	3104	121	207.466969	-86.466969	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	9/18/1990	11	3548	123.13	232.490763	-109.36076	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	3/25/1992	13	4102	131.86	226.69271	-94.83271	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	12/10/1992	13	4362	119.15	229.360481	-110.21048	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	3/19/1993	14	4461	118.83	224.152192	-105.32119	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	12/10/1993	14	4727	112	217.776006	-105.77601	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	6/16/1994	15	4915	108.9	221.45577	-112.55577	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	1/25/1995	16	5138	110.2	214.096761	-103.89676	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	11/22/1996	17	5805	92	206.306873	-114.30687	-392	-392	602

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	11/20/1997	18	6168	83	174.069069	-91.069069	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	11/18/1998	19	6531	80	204.381653	-124.38165	-392	-392	602
3437311	6343995.002	20160378.93	49	92	1422578	508744	7	12/16/1999	20	6924	76	214.091715	-138.09175	-392	-392	602
3437312	6333274.128	20160946.05	48	90	1507899	556019	8	7/3/1997	18	6028	145	235.350992	-90.350992	-924	-950	510
3437312	6333274.128	20160946.05	48	90	1507899	556019	8	5/19/1999	20	6713	80	188.062131	-108.06213	-924	-950	510
3437313	6343747.27	20160165.71	49	92	1508321	556284	8	7/6/2001	22	7492	82	159.975582	-77.975582	-1142	-1162	558
3437405	6315509.293	20153829.1	48	87	1422078	508508	7	11/12/1988	9	2873	304.9	252.142292	52.757708	-258	-260	540
3437406	6317371.41	20139717.14	50	86	1422968	508931	7	11/12/1988	9	2873	131	169.759179	-38.759179	-225	-225	480
3437407	6315594.809	20153832.6	48	87	1422078	508508	7	7/13/1982	3	559	310	265.335463	44.664537	-294	-295	535
3437407	6315594.809	20153832.6	48	87	1422078	508508	7	11/12/1988	9	2873	344.55	199.15595	145.39405	-294	-295	535
3437901	6338386.572	20132679.81	53	88	1424284	509475	7	4/8/1987	8	2289	271.87	215.890807	55.979193	-277	-298	449
3437901	6338386.572	20132679.81	53	88	1424284	509475	7	11/15/1988	9	2876	292.9	173.042791	119.85721	-277	-298	449
3437902	6339668.569	20138915.58	52	89	1423763	509271	7	4/1/1985	6	1552	138	188.449455	-50.449455	-375	-377	548
3437902	6339668.569	20138915.58	52	89	1423763	509271	7	3/12/1987	8	2262	136	178.059749	-42.059749	-375	-377	548
3437902	6339668.569	20138915.58	52	89	1423763	509271	7	11/10/1988	9	2871	81	101.509228	-20.509228	-375	-377	548
3438201	6367104.176	20160339.16	51	96	1325970	472377	6	11/11/1988	9	2872	162.08	162.768394	-0.688394	-166	-166	584
3438201	6367104.176	20160339.16	51	96	1325970	472377	6	11/5/2010	31	10901	102	173.19402	-71.19402	-166	-166	584
3438201	6367104.176	20160339.16	51	96	1325970	472377	6	11/30/2011	32	11291	96	160.073212	-64.073212	-166	-166	584
3438201	6367104.176	20160339.16	51	96	1325970	472377	6	11/17/2012	33	11644	95	165.695315	-70.695315	-166	-166	584
3438201	6367104.176	20160339.16	51	96	1325970	472377	6	11/13/2013	34	12005	97	175.134105	-78.134105	-166	-166	584
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	3/17/1981	2	76	203.92	231.300126	-27.380126	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	11/12/1981	2	316	235.84	238.233484	-2.393484	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	11/11/1983	4	1045	230.6	233.003185	-2.403185	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	11/17/1984	5	1417	151.27	206.401729	-55.131729	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	11/6/1985	6	1771	167.41	210.313956	-42.903956	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	11/12/1986	7	2142	167.8	209.444307	-41.644307	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	12/16/1987	8	2541	164.2	220.139442	-55.939442	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	11/11/1988	9	2872	154.36	176.696366	-22.336366	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	9/20/1990	11	3550	158.7	239.009837	-80.309837	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	12/10/1992	13	4362	155.85	238.321131	-82.471131	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	3/18/1993	14	4460	157.42	233.84392	-76.42392	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	12/11/1993	14	4728	151.1	227.942714	-76.842714	-156	-169	640
3438311	6374705.551	20164716.81	51	97	1325971	472378	6	6/15/1994	15	4914	153.2	224.447212	-71.247212	-156	-169	640
3438312	6374448.485	20166733.01	51	98	1325972	472379	6	1/8/1985	6	1469	177	215.35322	-38.35322	-162	-163	612
3438312	6374448.485	20166733.01	51	98	1325972	472379	6	11/11/1988	9	2872	157.5	172.748154	-15.248154	-162	-163	612
3438313	6371151.546	20165781.67	51	97	1325971	472378	6	11/11/1988	9	2872	125	150.144209	-25.144209	-164	-164	590
3438403	6347173.199	20147843.5	51	91	1423327	509092	7	4/19/1989	10	3031	109	142.956188	-33.956188	-357	-367	493
3438404	6354556.384	20145315.62	53	92	1326947	472672	6	6/15/1999	20	6740	95	145.676063	-50.676063	-313	-333	541
3438405	6345395.198	20147363.74	51	91	1423327	509092	7	10/7/2004	25	8681	65	126.769662	-61.769662	-373	-388	617
3438510	6365932.728	20143566.66	54	94	1327342	472842	6	4/9/1987	8	2290	138	178.195743	-40.195743	-280	-311	520
3438510	6365932.728	20143566.66	54	94	1327342	472842	6	11/12/1988	9	2873	135	134.20781	0.79219	-280	-311	520
3438608	6378964.283	20149189.62	54	97	1327345	472845	6	6/25/1999	20	6750	130	169.386684	-39.386684	-200	-220	570
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/12/1981	2	316	157	180.461683	-23.461683	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	12/10/1982	3	709	122	177.642416	-55.642416	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/8/1983	4	1042	139	174.631658	-35.631658	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/17/1984	5	1417	103	166.38153	-63.38153	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/6/1985	6	1771	106	165.32112	-59.32112	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/14/1986	7	2144	103	167.177364	-64.177364	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/11/1988	9	2872	83	93.222592	-10.222592	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	10/21/1989	10	3216	88	173.402767	-85.402767	-348	-367	488

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	9/16/1990	11	3546	102	196.424815	-94.424815	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/16/1991	12	3972	78	193.483326	-115.48333	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	10/1/1992	13	4292	-2	193.500676	-195.50068	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/11/1993	14	4698	-3	177.749507	-180.74951	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	1/26/1995	16	5139	22	152.785244	-130.78524	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/1/1996	17	5784	-30	180.291013	-210.29101	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	10/2/1997	18	6119	-17	177.679125	-194.67913	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/6/1998	19	6519	-6	163.257156	-169.25716	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/1/1999	20	6879	6	170.668951	-164.66895	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/29/2000	21	7273	32	180.677192	-148.67719	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	1/16/2002	23	7686	38	166.634575	-128.63458	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	10/2/2002	23	7945	33	175.787191	-142.78719	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	9/1/2003	24	8279	38	184.466189	-146.46619	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	10/21/2004	25	8695	66	153.146574	-87.146574	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/22/2005	26	9092	56	164.127061	-108.12706	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	10/1/2006	27	9405	40	144.905844	-104.90584	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	11/1/2007	28	9801	67	160.417547	-93.417547	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	2/21/2009	30	10279	63	158.5239	-95.5239	-348	-367	488
3438805	6361202.064	20127859.69	56	92	1425281	509940	7	6/18/2010	31	10761	59	149.432281	-90.432281	-348	-367	488
3438912	6374203.439	20130337.41	57	94	777932	308028	2	3/17/1981	2	76	506.29	505.741362	0.548638	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	11/12/1981	2	316	503.9	505.613579	-1.713579	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	11/11/1983	4	1045	503.32	505.673729	-2.353729	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	11/17/1984	5	1417	505.21	507.313322	-2.103322	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	11/13/1986	7	2143	506.52	503.741621	2.778379	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	12/16/1987	8	2541	509.07	504.583782	4.486218	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	11/16/1988	9	2877	501.28	507.48811	-6.20811	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	10/20/1989	10	3215	504.7	507.843217	-3.143217	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	9/20/1990	11	3550	507.12	506.492629	0.627371	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	11/15/1991	12	3971	506.96	506.112567	0.847433	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	12/11/1992	13	4363	507.3	508.565701	-1.265701	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	12/8/1993	14	4725	506.6	505.421084	1.178916	470	470	510
3438912	6374203.439	20130337.41	57	94	777932	308028	2	1/27/1995	16	5140	507.07	505.514554	1.555446	470	470	510
3438913	6372138.263	20130553.34	57	94	1425658	510118	7	11/16/1988	9	2877	97.1	108.361674	-11.261674	-466	-466	525
3438914	6376418.217	20130634.44	57	95	1425659	510119	7	2/4/1987	8	2226	140	173.519445	-33.519445	-330	-340	500
3438914	6376418.217	20130634.44	57	95	1425659	510119	7	11/15/1988	9	2876	101	119.905982	-18.905982	-330	-340	500
3438914	6376418.217	20130634.44	57	95	1425659	510119	7	9/10/1993	14	4636	72	159.104575	-87.104575	-330	-340	500
3439102	6394139.555	20168491.69	52	101	1326422	472528	6	6/20/1987	8	2362	242	235.618675	6.381325	-323	-328	442
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	7/8/1987	8	2380	318	343.318163	-25.318163	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/17/1988	9	2878	321.6	348.949727	-27.349727	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	7/21/1995	16	5315	325.2	348.682956	-23.482956	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/11/1995	16	5428	326.7	349.759155	-23.059155	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/21/1996	17	5804	329.63	345.268843	-15.638843	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/19/1997	18	6167	333.4	349.031175	-15.631175	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/18/1998	19	6531	335.96	349.018603	-13.058603	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/12/1999	20	6890	316.2	341.656681	-25.456681	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/15/2000	21	7259	325.8	351.039072	-25.239072	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/28/2001	22	7637	332.96	348.96378	-16.00378	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/14/2002	23	7988	308.54	348.516869	-39.976869	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/19/2003	24	8358	318.74	350.050122	-31.310122	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/17/2004	25	8722	319.62	349.444927	-29.824927	-51	-72	408

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	12/14/2005	26	9114	307.72	349.624828	-41.904828	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/10/2006	27	9445	296.1	347.623443	-51.523443	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/9/2007	28	9809	284.37	328.159366	-43.789366	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/13/2008	29	10179	304.13	346.606548	-42.476548	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/13/2009	30	10544	313.92	344.959952	-31.039952	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/5/2010	31	10901	294.9	344.793212	-49.893212	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/30/2011	32	11291	297.59	342.936276	-45.346276	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/16/2012	33	11643	301.2	344.298231	-43.098231	-51	-72	408
3439103	6395444.924	20166014.32	53	101	1099559	405573	4	11/13/2013	34	12005	297.62	348.568436	-50.948436	-51	-72	408
3439206	640442.331	20157891.77	55	102	1101281	406662	4	10/16/1981	2	289	327	334.147313	-7.147313	21	15	350
3439207	6404433.526	20158093.9	55	102	1101277	406658	4	6/30/1985	6	1642	345.6	337.761515	7.838485	70	65	345
3439207	6404433.526	20158093.9	55	102	1101277	406658	4	4/19/1989	10	3031	340.72	339.210586	1.509414	70	65	345
3439207	6404433.526	20158093.9	55	102	1101277	406658	4	9/10/1993	14	4636	343.02	337.093352	5.926648	70	65	345
3439301	6413887.045	20161142.28	55	104	1101307	406688	4	11/11/1981	2	315	435.94	338.754577	97.185423		411	460
3439301	6413887.045	20161142.28	55	104	1101307	406688	4	11/9/1983	4	1043	436.35	338.562466	97.787534		411	460
3439301	6413887.045	20161142.28	55	104	1101307	406688	4	11/16/1984	5	1416	434.54	341.10875	93.43125		411	460
3439301	6413887.045	20161142.28	55	104	1101307	406688	4	11/12/1986	7	2142	437.53	335.079407	102.45059		411	460
3439506	6403006.421	20151544.94	56	101	1425290	509949	7	1/1/2006	27	9132	120	172.384821	-52.384821	-557	-577	379
3439507	6403002.013	20151646.19	56	101	1425290	509949	7	6/28/2006	27	9310	125.1	170.119211	-45.019211	-541	-561	379
3439602	6420782.304	20156174.93	57	104	1328471	473401	6	3/29/2002	23	7758	185	213.710576	-28.710576	-10	-10	550
3439901	6409945.945	20133806.36	59	100	1426594	510677	7	4/2/1998	19	6301	170	206.61381	-36.61381	-120	-130	500
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	3/17/1981	2	76	233.42	256.711928	-23.291928	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/11/1981	2	315	227.66	253.390267	-25.730267	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/9/1983	4	1043	198.65	248.902922	-50.252922	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/16/1984	5	1416	191.95	247.746377	-55.796377	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/6/1985	6	1771	188.81	246.321122	-57.511122	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/12/1986	7	2142	187.3	243.157929	-55.857929	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	12/16/1987	8	2541	186.4	240.331382	-53.931382	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/15/1988	9	2876	180.58	221.829426	-41.249426	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	10/20/1989	10	3215	182.75	243.096911	-60.346911	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	9/20/1990	11	3550	183.05	253.202523	-70.152523	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/14/1991	12	3970	182.79	252.754341	-69.964341	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	12/13/1992	13	4365	184.39	255.798821	-71.408821	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	12/11/1993	14	4728	184.1	247.487277	-63.387277	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/11/1995	16	5428	176	242.672031	-66.672031	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/18/1998	19	6531	181.66	239.333038	-57.673038	-29	-30	390
3440102	6424413.065	20163125.61	56	105	1328034	473188	6	11/28/2001	22	7637	181.4	244.707204	-63.307204	-29	-30	390
3440203	6436997.566	20163075.79	57	108	1425672	510132	7	12/21/1997	18	6199	205	235.179227	-30.179227	-238	-245	420
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	3/17/1981	2	76	375	301.355435	73.644565	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/11/1981	2	315	376.05	301.05373	74.99627	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/9/1983	4	1043	375.56	300.981721	74.578279	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/16/1984	5	1416	374.94	302.735496	72.204504	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/12/1986	7	2142	378.22	297.813968	80.406032	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	12/16/1987	8	2541	384.82	299.316817	85.503183	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/15/1988	9	2876	375.25	302.756326	72.493674	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	10/20/1989	10	3215	377.55	303.253429	74.296571	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	9/20/1990	11	3550	378.18	302.141227	76.038773	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/14/1991	12	3970	376.4	301.60432	74.79568	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	12/12/1992	13	4364	376.25	303.796969	72.453031	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	12/11/1993	14	4728	375.42	300.684158	74.735842	372	359	395

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	1/27/1995	16	5140	389.1	300.036443	89.063557	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/21/1996	17	5804	373.86	299.41307	74.44693	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/19/1997	18	6167	377.5	302.022592	75.477408	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/18/1998	19	6531	390.29	301.717942	88.572058	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/10/1999	20	6888	375.98	303.702311	72.277689	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/15/2000	21	7259	380.9	302.507886	78.392114	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/19/2003	24	8358	378.45	302.290174	76.159826	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/17/2004	25	8722	373.9	301.948511	71.951489	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	12/14/2005	26	9114	373.47	302.022435	71.447565	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/10/2006	27	9445	373.27	300.918812	72.351188	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/9/2007	28	9809	379.22	300.727343	78.492657	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/13/2008	29	10179	378.57	300.553224	78.016776	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/13/2009	30	10544	389.54	299.460347	90.079653	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/5/2010	31	10901	377.22	299.617093	77.602907	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/30/2011	32	11291	374.02	298.275972	75.744028	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/15/2012	33	11642	375.64	299.499424	76.140576	372	359	395
3440301	6457280.389	20174526.68	57	112	1103055	407534	4	11/13/2013	34	12005	377.21	301.904867	75.305133	372	359	395
3440403	6431515.453	20149655.5	59	105	1511904	558158	8	2/24/2001	22	7360	183	209.594231	-26.594231	-542	-542	500
3440502	6443891.185	20158214.36	59	108	1511907	558161	8	3/14/2007	28	9569	167	196.978044	-29.978044	-576	-606	414
3440503	6443805.816	20158210.25	59	108	1426602	510685	7	12/7/2005	26	9107	162	207.463713	-45.463713	-153	-153	412
3440504	6443891.256	20158214.07	59	108	1426602	510685	7	12/11/2005	26	9111	175	213.990348	-38.990348	-175	-185	417
3440603	6454208.537	20155332.35	60	110	1512242	558350	8	8/31/1982	3	608	212	237.940834	-25.940834	0	-110	390
3440603	6454208.537	20155332.35	60	110	1512242	558350	8	4/19/1989	10	3031	68	226.874105	-158.87411	0	-110	390
3440604	6458582.198	20151373.66	61	110	1512563	558560	8	1/5/1989	10	2927	175	197.693096	-22.693096	-73	-73	420
3440605	6448258.338	20156281.15	59	109	1579753	609052	9	5/1/1998	19	6330	127	232.921712	-105.92171	-600	-600	400
3440605	6448258.338	20156281.15	59	109	1579753	609052	9	5/21/1999	20	6715	155	209.439675	-54.439675	-600	-600	400
3440606	6448172.927	20156277.28	59	109	1579753	609052	9	12/5/1997	18	6183	188	209.519424	-21.519424	-598	-598	400
3440709	6432305.149	20131851.22	62	104	1428098	511664	7	12/15/1988	9	2906	214	218.52578	-4.52578	-113	-113	415
3440710	6433233.159	20143751.49	60	105	1427037	510943	7	1/28/1984	5	1123	220	235.974759	-15.974759	-104	-125	475
3441204	6168413.801	20111443.01	41	58	1574416	604982	9	3/21/1989	10	3002	374.4	390.656444	-16.256444	275	215	455
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	7/27/1995	16	5321	570	482.613652	87.386348	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	9/11/1995	16	5367	567.1	506.557909	60.542091	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	9/12/1995	16	5368	569.11	482.95706	86.15294	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	9/13/1995	16	5369	569.1	482.967047	86.132953	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	9/15/1995	16	5371	568.87	482.924022	85.945978	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	9/16/1995	16	5372	569.03	482.985009	86.044991	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	9/21/1995	16	5377	567.54	506.870676	60.669324	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	9/23/1995	16	5379	568.61	507.422577	61.187423	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	12/5/1995	16	5452	568.85	483.728927	85.121073	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	12/8/1995	16	5455	567.5	507.395055	60.104945	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	12/15/1995	16	5462	568.6	483.751094	84.848906	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	12/16/1995	16	5463	567.35	507.375579	59.974421	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	1/9/1996	17	5487	567.5	507.449571	60.050429	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	1/25/1996	17	5503	568.6	483.378613	85.221387	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	2/14/1996	17	5523	568.47	482.863629	85.606371	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	3/3/1996	17	5541	568.18	482.374583	85.805417	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	3/7/1996	17	5545	566.97	506.223716	60.746284	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	3/14/1996	17	5552	566.88	506.07074	60.80926	550	530	610
3441304	6179923.057	20110649.83	42	60	1419963	507249	7	11/10/1998	19	6523	566.42	481.423368	84.996632	550	530	610
3441305	6182258.49	20112357.62	42	61	1322380	470834	6	9/19/1995	16	5375	611.1	442.975455	168.12455		598	645

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3441305	6182258.49	20112357.62	42	61	1322380	470834	6	3/14/1996	17	5552	607.45	442.428657	165.02134		598	645
3441306	6182694.587	20109840.31	43	61	1420255	507469	7	9/19/1995	16	5375	582.45	482.191628	100.25837		554	600
3441306	6182694.587	20109840.31	43	61	1420255	507469	7	3/14/1996	17	5552	578.3	480.515793	97.784207		554	600
3441307	6182854.291	20110150.45	43	61	1420255	507469	7	3/14/1996	17	5552	587.1	483.300945	103.79906		587	610
3441308	6183743.669	20109271.04	43	61	1420255	507469	7	3/14/1996	17	5552	553.35	494.70037	58.64963	536	536	572
3441309	6180989.976	20114236.07	42	61	1322380	470834	6	3/14/1996	17	5552	594.03	487.90906	106.12094		575	620
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/11/1995	16	5367	568	462.536024	105.46398		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/12/1995	16	5368	567.99	417.345532	150.64447		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/13/1995	16	5369	567.72	417.353886	150.36611		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/16/1995	16	5372	567.91	417.378948	150.53105		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/19/1995	16	5375	566.5	417.404011	149.09599		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/21/1995	16	5377	565.79	461.931503	103.8585		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/23/1995	16	5379	565.93	461.984857	103.94514		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	12/5/1995	16	5452	567.41	417.996245	149.41376		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	12/7/1995	16	5454	566.32	462.504098	103.8159		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	12/8/1995	16	5455	565.7	462.323461	103.37654		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	12/15/1995	16	5462	566.78	418.072863	148.70714		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	12/16/1995	16	5463	565.53	462.315367	103.21463		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	1/9/1996	17	5487	565.7	462.370803	103.3292		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	1/25/1996	17	5503	566.99	417.803633	149.18637		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	2/14/1996	17	5523	566.74	417.449597	149.2904		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	3/3/1996	17	5541	565.74	417.139219	148.60078		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	3/7/1996	17	5545	564.9	461.419822	103.48018		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	3/14/1996	17	5552	564.72	461.282467	103.43753		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	9/20/1996	17	5742	566.55	459.616416	106.93358		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	11/10/1998	19	6523	560.37	412.965256	147.40474		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	1/3/2001	22	7308	559.63	419.940234	139.68977		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	8/6/2003	24	8253	555.5	417.868553	137.63145		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	1/26/2007	28	9522	555.85	414.471526	141.37847		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	1/11/2008	29	9872	556.5	413.672629	142.82737		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	5/6/2009	30	10353	558.8	411.797539	147.00246		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	6/15/2010	31	10758	561.47	409.824654	151.64535		533	613
3441310	6179923.057	20110649.83	42	60	1506090	554741	8	6/1/2011	32	11109	562.29	407.358421	154.93158		533	613
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	11/10/1998	19	6523	559.2	412.965256	146.23474	526	523	611
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	1/3/2001	22	7308	560.49	419.940234	140.54977	526	523	611
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	8/6/2003	24	8253	557.53	417.868553	139.66145	526	523	611
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	1/26/2007	28	9522	557.45	414.471526	142.97847	526	523	611
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	1/11/2008	29	9872	555.6	413.672629	141.92737	526	523	611
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	5/6/2009	30	10353	562.7	411.797539	150.90246	526	523	611
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	6/15/2010	31	10758	561.94	409.824654	152.11535	526	523	611
3441312	6179923.057	20110649.83	42	60	1506090	554741	8	6/1/2011	32	11109	562.26	407.358421	154.90158	526	523	611
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	2/16/1999	20	6621	557	413.584739	143.41526	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	1/3/2001	22	7308	560.07	419.940234	140.12977	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	8/6/2003	24	8253	558.45	417.868553	140.58145	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	11/19/2004	25	8724	564.89	417.504722	147.38528	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	1/26/2007	28	9522	561.33	414.471526	146.85847	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	1/11/2008	29	9872	556.42	413.672629	142.74737	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	5/6/2009	30	10353	562.2	411.797539	150.40246	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	6/15/2010	31	10758	561.25	409.824654	151.42535	526	525	606
3441313	6179923.057	20110649.83	42	60	1506090	554741	8	6/1/2011	32	11109	563.23	407.358421	155.87158	526	525	606

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3441315	6179923.057	20110649.83	42	60	1506090	554741	8	5/6/2009	30	10353	560.3	456.348277	103.95172		520	610
3441315	6179923.057	20110649.83	42	60	1506090	554741	8	6/15/2010	31	10758	559.11	454.610257	104.49974		520	610
3441315	6179923.057	20110649.83	42	60	1506090	554741	8	6/1/2011	32	11109	559.2	452.910895	106.28911		520	610
3441316	6179923.057	20110649.83	42	60	1419963	507249	7	5/6/2009	30	10353	565.3	477.343504	87.956496		530	610
3441316	6179923.057	20110649.83	42	60	1419963	507249	7	6/15/2010	31	10758	565.01	475.337647	89.672353		530	610
3441316	6179923.057	20110649.83	42	60	1419963	507249	7	6/1/2011	32	11109	562.69	472.726644	89.963356		530	610
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	3/14/1981	2	73	506.67	431.437841	75.232159	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/13/1981	2	317	506.92	431.005253	75.914747	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/16/1983	4	1050	507.22	429.642755	77.577245	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/16/1984	5	1416	506.11	432.1936	73.9164	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/7/1985	6	1772	507.06	429.341568	77.718432	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/7/1986	7	2137	508.02	420.658338	87.361662	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	2/18/1988	9	2605	509.02	420.944033	88.075967	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	12/21/1988	9	2912	507.84	428.239067	79.600933	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/30/1989	10	3256	507.6	431.758558	75.841442	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	10/25/1990	11	3585	507.9	430.486738	77.413262	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	12/7/1991	12	3993	509.3	429.026519	80.273481	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/10/1992	13	4332	508.3	433.239662	75.060338	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	10/9/1993	14	4665	509.3	428.637695	80.662305	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	1/13/1995	16	5126	511.47	422.09504	89.37496	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/10/1995	16	5427	507.9	427.20978	80.69022	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	3/14/1996	17	5552	507.55	426.123122	81.426878	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/22/1996	17	5805	505.61	421.533466	84.076534	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/7/1997	18	6155	507.38	425.028365	82.351635	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/14/1998	19	6527	507.79	425.833957	81.956043	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/12/1999	20	6890	507.2	430.667639	76.532361	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/17/2000	21	7261	506.8	430.946071	75.853929	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/29/2001	22	7638	508.35	429.432941	78.917059	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/16/2002	23	7990	508.08	428.55934	79.52066	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/14/2003	24	8353	506.88	429.995871	76.884129	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/5/2004	25	8710	507.8	429.262916	78.537084	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	12/13/2005	26	9113	506.24	429.00675	77.23325	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/9/2006	27	9444	504.75	426.209524	78.540476	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/27/2007	28	9827	507.85	424.755625	83.094375	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/5/2008	29	10171	507.32	423.497558	83.822442	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/11/2009	30	10542	509.62	420.006395	89.613605	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/4/2010	31	10900	507.4	418.483171	88.916829	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	12/3/2011	32	11294	506.04	413.058373	92.981627	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/14/2012	33	11641	506.39	412.588339	93.801661	484	484	546
3442108	6198401.403	20113667.72	43	63	1420257	507471	7	11/14/2013	34	12006	505.35	421.562869	83.787131	484	484	546
3442109	6198490.491	20113570.08	43	63	1574892	605324	9	10/18/1983	4	1021	373	387.642783	-14.642783	-217	-227	543
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	3/19/1981	2	78	339.46	394.195173	-54.735173	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/16/1983	4	1050	339.72	390.650626	-50.930626	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/16/1984	5	1416	337.83	387.333015	-49.503015	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/7/1985	6	1772	326.76	365.417792	-38.657792	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/7/1986	7	2137	326.98	373.18437	-46.20437	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	12/17/1987	8	2542	320.6	359.387793	-38.787793	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	12/8/1988	9	2899	320.7	363.740395	-43.040395	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	12/28/1989	10	3284	318.1	367.892208	-49.792208	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	10/24/1990	11	3584	327.1	386.443064	-59.343064	-57	-67	520

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	12/4/1991	12	3990	322.5	385.362929	-62.862929	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/14/1992	13	4336	322	390.238882	-68.238882	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	10/13/1993	14	4669	323	382.402537	-59.402537	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/16/1995	16	5433	321.8	378.14722	-56.34722	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/7/1997	18	6155	317.98	377.588855	-59.608855	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/17/1998	19	6530	315.46	378.971311	-63.511311	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/11/1999	20	6889	311.7	362.181073	-50.481073	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	10/19/2002	23	7962	305.12	384.155424	-79.035424	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/13/2003	24	8352	306.89	386.185406	-79.295406	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/5/2004	25	8710	300.6	383.643615	-83.043615	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	12/16/2005	26	9116	303.27	383.102615	-79.832615	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/11/2006	27	9446	299.4	378.061971	-78.661971	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/29/2007	28	9829	301.35	377.765541	-76.415541	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/5/2008	29	10171	300.85	375.661461	-74.811461	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/11/2009	30	10542	299.21	373.994348	-74.784348	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/6/2010	31	10902	295.5	371.255172	-75.755172	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	12/2/2011	32	11293	286.04	340.737224	-54.697224	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/16/2012	33	11643	287.91	364.689904	-76.779904	-57	-67	520
3442403	6201143.274	20090595.79	47	62	1575854	606026	9	11/16/2013	34	12008	283.95	373.47992	-89.52992	-57	-67	520
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	11/18/1981	2	322	359.9	389.241242	-29.341242		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	11/16/1983	4	1050	352.35	385.409795	-33.059795		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	11/16/1984	5	1416	349.45	381.508955	-32.058955		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	11/8/1985	6	1773	343.55	376.888843	-33.338843		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	11/7/1986	7	2137	341.53	369.041566	-27.511566		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	12/17/1987	8	2542	336.91	370.665084	-33.755084		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	12/8/1988	9	2899	334.38	374.845882	-40.465882		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	12/28/1989	10	3284	331.7	382.186697	-50.486697		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	11/14/1992	13	4336	331.8	383.913608	-52.113608		-213	550
3442503	6205666.809	20100463.31	46	63	1575573	605817	9	10/13/1993	14	4669	332.5	377.126809	-44.626809		-213	550
3442902	6229709.323	20085872.97	51	66	1325925	472332	6	8/12/1986	7	2050	455	404.981437	50.018563	421	421	463
3442903	6229795.014	20085876.26	51	66	1325925	472332	6	9/19/2002	23	7932	453.78	408.28691	45.49309		433	463
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	11/18/1981	2	322	374.72	350.300988	24.419012	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	11/17/1983	4	1051	367.71	344.512394	23.197606	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	11/16/1984	5	1416	365.15	340.289513	24.860487	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	11/6/1985	6	1771	363.87	335.762236	28.107764	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	11/6/1986	7	2136	358.4	328.016768	30.383232	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	12/17/1987	8	2542	355.42	326.377404	29.042596	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	12/7/1988	9	2898	353.96	324.13823	29.82177	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	12/28/1989	10	3284	350.6	335.874749	14.725251	-331	-354	475
3443104	6241114.554	20107998.73	48	70	1507879	555999	8	10/18/1990	11	3578	351.6	338.386361	13.213639	-331	-354	475
3443201	6249472.282	20115619.65	48	72	1507881	556001	8	3/21/1989	10	3002	313.8	317.659638	-3.859638	-200	-215	470
3443206	6247677.552	20119907.1	47	72	1507485	555745	8	3/21/1989	10	3002	170	248.717952	-78.717952	-244	-244	440
3443207	6247677.552	20119907.1	47	72	1507485	555745	8	3/21/1989	10	3002	150	238.717952	-88.717952	-245	-245	440
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/18/1981	2	322	328.98	332.916833	-3.936833	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/17/1983	4	1051	314.47	325.427456	-10.957456	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/16/1984	5	1416	312.91	323.951378	-11.041378	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/8/1985	6	1773	306.12	319.085254	-12.965254	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/6/1986	7	2136	305.14	310.328824	-5.188824	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	12/17/1987	8	2542	300.47	305.300554	-4.830554	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	12/7/1988	9	2898	298.71	301.994698	-3.284698	-54	-54	446

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	12/28/1989	10	3284	293	317.24403	-24.24403	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	10/18/1990	11	3578	293	319.337867	-26.337867	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	12/4/1991	12	3990	292	317.671048	-25.671048	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/14/1992	13	4336	287.9	322.616284	-34.716284	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	10/13/1993	14	4669	290.1	314.135924	-24.035924	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	1/14/1995	16	5127	283.3	303.772074	-20.472074	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/15/1995	16	5432	276.9	307.636423	-30.736423	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/13/1996	17	5796	275.45	302.615268	-27.165268	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/7/1997	18	6155	274.38	304.513414	-30.133414	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/17/1998	19	6530	268.83	302.025624	-33.195624	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/11/1999	20	6889	266.7	308.153988	-41.453988	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/29/2000	21	7273	265.5	322.815113	-57.315113	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	10/18/2002	23	7961	257.2	318.210478	-61.010478	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/13/2003	24	8352	253.06	319.792679	-66.732679	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/18/2004	25	8723	250.22	311.502425	-61.282425	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	12/15/2005	26	9115	247.56	312.844802	-65.284802	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/11/2006	27	9446	238.1	303.549453	-65.449453	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/28/2007	28	9828	239.73	307.407899	-67.677899	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/5/2008	29	10171	236.7	302.677757	-65.977757	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/6/2010	31	10902	230.11	298.863995	-68.753995	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	12/2/2011	32	11293	222.51	268.082898	-45.572898	-54	-54	446
3443603	6259410.55	20091818.61	53	72	1424268	509459	7	11/16/2013	34	12008	220	302.315034	-82.315034	-54	-54	446
3443904	6265608.637	20084431.22	54	72	1510233	557264	8	3/19/1981	2	78	272.5	308.974951	-36.474951	-482	-482	558
3443904	6265608.637	20084431.22	54	72	1510233	557264	8	4/12/1987	8	2293	248.5	279.825137	-31.325137	-482	-482	558
3443909	6265610.578	20086559.68	54	72	1100259	405932	4	9/20/2002	23	7933	477.8	418.095445	59.704555		450	490
3444104	6274927.795	20117533.2	50	77	1422959	508922	7	10/14/1981	2	287	218	288.5134	-70.5134	6	-40	556
3444105	6274971.986	20116420.41	50	76	1422958	508921	7	10/22/1981	2	295	370	333.751439	36.248561	-56	-56	490
3444205	6285807.956	20119689.81	50	79	1096723	403926	4	6/19/1998	19	6379	502.6	433.189482	69.410518		460	520
3444303	6298458.31	20122529.61	51	81	1097562	404421	4	3/10/2004	25	8470	444	409.787495	34.212505	176	155	609
3444304	6298368.62	20122627.41	51	81	1097562	404421	4	8/2/1995	16	5327	412	399.740233	12.259767	156	144	604
3444505	6289233.89	20096214.39	55	77	1101110	406491	4	11/18/1981	2	322	392.25	365.875566	26.374434		380	415
3444505	6289233.89	20096214.39	55	77	1101110	406491	4	11/17/1983	4	1051	391	365.826337	25.173663		380	415
3444505	6289233.89	20096214.39	55	77	1101110	406491	4	11/6/1986	7	2136	391.82	364.873854	26.946146		380	415
3444706	6277545.726	20090477.95	55	74	1510532	557419	8	3/19/1981	2	78	313.75	298.930026	14.819974		-430	500
3444706	6277545.726	20090477.95	55	74	1510532	557419	8	11/18/1981	2	322	312.99	297.623263	15.366737		-430	500
3444707	6272731.868	20090793.26	54	74	1424648	509622	7	5/8/1991	12	3780	260	277.061478	-17.061478	-284	-284	496
3444803	6293255.641	20081478.54	57	76	1328443	473373	6	9/17/1999	20	6834	100	171.162676	-71.162676	-122	-144	480
3444908	6306613.025	20084146.43	58	79	1328905	473525	6	12/4/1999	20	6912	105	186.083782	-81.083782	-251	-260	400
3444908	6306613.025	20084146.43	58	79	1328905	473525	6	10/17/2002	23	7960	94.59	191.853809	-97.263809	-251	-260	400
3445103	6317842.675	20113589.22	54	83	1327331	472831	6	11/18/1981	2	322	384.16	282.434446	101.72555		380	410
3445206	6332826.377	20124239.85	54	87	1424661	509635	7	10/9/1998	19	6491	8	96.148979	-88.148979	-309	-329	475
3445304	6335439.046	20119078.26	55	87	1424964	509786	7	1/24/1996	17	5502	29	105.495642	-76.495642	-276	-320	520
3445401	6318124.922	20100426.18	57	82	1328449	473379	6	11/18/1981	2	322	326.42	261.515946	64.904054		-150	360
3445407	6316235.154	20098423.16	57	82	1102942	407421	4	9/19/1991	12	3914	270	328.911055	-58.911055	-52	-62	380
3445507	6322113.835	20101400.52	57	83	1328450	473380	6	3/15/2000	21	7014	44	128.667475	-84.667475	-154	-178	342
3445609	6346251.272	20102299.28	59	87	1329414	473656	6	5/7/1988	9	2684	92	106.194422	-14.194422	-336	-363	475
3445610	6336697.36	20103218.84	58	85	1511530	557934	8	6/24/2005	26	8941	147	169.757065	-22.757065	-911	-911	495
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	3/17/1981	2	76	197.22	217.92984	-20.70984	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/11/1981	2	315	228.68	224.999747	3.680253	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/11/1983	4	1045	165.48	190.496683	-25.016683	-360	-360	420

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/6/1985	6	1771	145.12	175.878621	-30.758621	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/13/1986	7	2143	143.9	185.991711	-42.091711	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/11/1989	10	3237	117.4	180.116153	-62.716153	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	9/20/1990	11	3550	127.72	192.134006	-64.414006	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	12/17/1992	13	4369	109.3	186.589686	-77.289686	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	3/19/1993	14	4461	114.55	183.627139	-69.077139	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	12/11/1993	14	4728	102.54	175.485687	-72.945687	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	6/16/1994	15	4915	110.93	170.619746	-59.689746	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/19/1996	17	5802	80.72	165.14113	-84.42113	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/19/1998	19	6532	56.1	150.694123	-94.594123	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/15/2000	21	7259	41	161.145093	-120.14509	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/27/2001	22	7636	51.5	157.210923	-105.71092	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/14/2002	23	7988	52.98	161.357455	-108.37746	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/18/2003	24	8357	46.65	161.924288	-115.27429	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/17/2004	25	8722	51.58	149.036255	-97.456255	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	12/14/2005	26	9114	40.3	150.599932	-110.29993	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/10/2006	27	9445	17.9	132.55539	-114.65539	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/9/2007	28	9809	13.91	140.217956	-126.30796	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/12/2008	29	10178	0.23	129.507658	-129.27766	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/5/2010	31	10901	21.4	134.81793	-113.41793	-360	-360	420
3445803	6329902.177	20085100.04	60	83	1329875	473785	6	11/16/2012	33	11643	-1.53	122.169005	-123.69905	-360	-360	420
3445804	6323444.035	20079462.71	61	81	1330362	473930	6	3/17/1981	2	76	361.97	273.740484	88.229516	275	275	425
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/12/1981	2	316	470.56	482.814398	-12.254398	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/11/1983	4	1045	470.1	482.756848	-12.656848	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/17/1984	5	1417	468.88	484.030288	-15.150288	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/13/1986	7	2143	471.45	480.647489	-9.197489	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	12/16/1987	8	2541	471.72	482.078459	-10.358459	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/11/1989	10	3237	471.95	485.256341	-13.306341	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	9/21/1990	11	3551	472.16	484.17803	-12.01803	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/16/1991	12	3972	473.25	484.103233	-10.853233	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	12/17/1992	13	4369	472.9	485.715283	-12.815283	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	12/11/1993	14	4728	472.4	482.999358	-10.599358	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	1/25/1995	16	5138	475.21	483.764146	-8.554146	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/15/1995	16	5432	473	485.246672	-12.246672	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/22/1996	17	5805	471.58	481.803787	-10.223787	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/18/1997	18	6166	470.45	484.0543	-13.6043	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/18/1998	19	6531	471.03	483.723811	-12.693811	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/10/1999	20	6888	470.85	485.134063	-14.284063	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/17/2000	21	7261	470	483.953167	-13.953167	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/27/2001	22	7636	471.55	483.601654	-12.051654	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/14/2002	23	7988	471.01	483.417153	-12.407153	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/18/2003	24	8357	470.28	484.05245	-13.77245	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/17/2004	25	8722	469.75	483.485621	-13.735621	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	12/14/2005	26	9114	468.82	483.357949	-14.537949	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/10/2006	27	9445	467.2	481.971792	-14.771792	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/9/2007	28	9809	470.34	482.736255	-12.396255	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/12/2008	29	10178	469.11	482.348596	-13.238596	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/13/2009	30	10544	470.18	481.722014	-11.542014	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/4/2010	31	10900	470.95	482.200646	-11.250646	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/30/2011	32	11291	468.65	480.696177	-12.046177	414	412	505

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/16/2012	33	11643	467.85	481.416668	-13.566668	414	412	505
3446104	6348157.718	20118189.43	56	89	776821	308001	2	11/13/2013	34	12005	466.85	482.962616	-16.112616	414	412	505
3446111	6358156.932	20118812.44	57	90	1328457	473387	6	4/16/1987	8	2297	107.37	131.688592	-24.318592		-266	474
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	11/9/1988	9	2870	73	92.099816	-19.099816	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	3/26/1992	13	4103	113.7	191.964839	-78.264839	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	6/12/1992	13	4181	64	192.575805	-128.57581	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	12/11/1992	13	4363	85.2	194.475894	-109.27589	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	3/17/1993	14	4459	57	184.580689	-127.58069	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	12/8/1993	14	4725	73	177.852518	-104.85252	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	12/13/1994	15	5095	34	151.660604	-117.6606	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	11/18/1995	16	5435	23	166.903142	-143.90314	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	10/16/1996	17	5768	38	178.698049	-140.69805	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	4/2/1997	18	5936	34	176.218173	-142.21817	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	11/6/1998	19	6519	41	162.858271	-121.85827	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	11/21/2000	21	7265	-28	182.137339	-210.13734	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	10/10/2001	22	7588	36	165.302396	-129.3024	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	9/25/2002	23	7938	20	177.209347	-157.20935	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	10/28/2003	24	8336	41	186.189044	-145.18904	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	10/29/2004	25	8703	37	154.005062	-117.00506	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	11/30/2005	26	9100	23	165.748695	-142.7487	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	10/11/2006	27	9415	-74	146.173295	-220.1733	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	11/2/2007	28	9802	-9	162.000903	-171.0009	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	1/9/2009	30	10236	22	151.823521	-129.82352	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	6/9/2010	31	10752	-32	150.990808	-182.99081	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	10/1/2010	31	10866	-17	149.483279	-166.48328	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	11/20/2012	33	11647	-2	140.253838	-142.25384	-272	-287	488
3446113	6348570.173	20122666.03	56	89	1425278	509937	7	10/22/2013	34	11983	23	156.254263	-133.25426	-272	-287	488
3446114	6352220.875	20119373.4	57	89	1102973	407452	4	8/29/1985	6	1702	435	423.188133	11.811867	260	250	510
3446306	6381889.929	20116881.91	60	94	1105576	408620	4	5/20/1988	9	2697	470	440.327546	29.672454	290	285	520
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	5/21/1982	3	506	221	207.877725	13.122275	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	11/9/1982	3	678	186.35	206.086028	-19.736028	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	2/13/1991	12	3696	127.5	210.785097	-83.285097	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	3/26/1992	13	4103	135.2	211.448241	-76.248241	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	12/11/1992	13	4363	113.55	213.869425	-100.31943	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	3/11/1993	14	4453	147	207.18564	-60.18564	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	12/2/1994	15	5084	154	176.194393	-22.194393	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	9/13/1996	17	5735	180	194.29901	-14.29901	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	11/21/2000	21	7265	102	199.407165	-97.407165	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	10/17/2001	22	7595	72	191.290343	-119.29034	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	1/19/2002	23	7689	98	191.712915	-93.712915	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	9/15/2006	27	9389	0	172.981298	-172.9813	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	11/2/2007	28	9802	2	181.946451	-179.94645	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	1/22/2009	30	10249	-10	175.580239	-185.58024	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	6/9/2010	31	10752	-30	175.679323	-205.67932	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	3/31/2011	32	11047	-15	164.47493	-179.47493	-701	-701	490
3446404	6348466.781	20100567.64	59	87	1511886	558140	8	10/22/2013	34	11983	15	175.414999	-160.415	-701	-701	490
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	12/15/1987	8	2540	54	135.13181	-81.13181	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/5/1988	9	2866	17	107.744784	-90.744784	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	10/21/1989	10	3216	26	177.199621	-151.19962	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	9/16/1990	11	3546	47	198.047705	-151.04771	-290	-300	512

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/16/1991	12	3972	37	195.359437	-158.35944	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	5/1/1992	13	4139	32	193.402866	-161.40287	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/16/1993	14	4703	14	180.736648	-166.73665	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	1/26/1995	16	5139	56	161.011678	-105.01168	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/11/1995	16	5428	26	169.707456	-143.70746	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/1/1996	17	5784	42	180.791322	-138.79132	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	10/2/1997	18	6119	12	177.825478	-165.82548	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/1/1999	20	6879	44	172.295432	-128.29543	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/21/2000	21	7265	26	182.754032	-156.75403	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	1/16/2002	23	7686	34	169.565144	-135.56514	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	10/2/2002	23	7945	9	177.764076	-168.76408	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	9/1/2003	24	8279	44	185.137112	-141.13711	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	10/21/2004	25	8695	8	156.006119	-148.00612	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/22/2005	26	9092	-8	164.842931	-172.84293	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	10/1/2006	27	9405	5	146.333457	-141.33346	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	11/1/2007	28	9801	22	161.330074	-139.33007	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	6/21/2008	29	10034	33	151.738331	-118.73833	-290	-300	512
3446511	6362335.278	20099022.66	61	89	1427471	511216	7	6/18/2010	31	10761	31	150.569882	-119.56988	-290	-300	512
3446512	6371819.337	20109863.73	60	92	1427024	510930	7	2/15/1982	3	411	190	184.210271	5.789729	-417	-437	593
3446809	6371032.805	20088039.42	64	90	1429254	512186	7	12/10/1982	3	709	110	188.910677	-78.910677	-275	-292	538
3446809	6371032.805	20088039.42	64	90	1429254	512186	7	5/21/1986	7	1967	141	180.418807	-39.418807	-275	-292	538
3446812	6365249.829	20082828.25	64	88	1429252	512184	7	4/12/1996	17	5581	-42	72.562077	-114.56208	-368	-390	490
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	11/11/1981	2	315	445.96	217.19471	228.76529	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	11/9/1983	4	1043	445.75	211.43077	234.31923	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	11/17/1984	5	1417	443.86	206.480179	237.37982	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	11/6/1985	6	1771	443.24	205.170593	238.06941	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	11/14/1986	7	2144	445.25	204.294605	240.9554	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	10/20/1989	10	3215	447.06	204.624719	242.43528	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	9/21/1990	11	3551	447.72	221.440906	226.27909	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	12/11/1992	13	4363	449.2	221.277465	227.92254	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	12/8/1993	14	4725	449.4	209.95172	239.44828	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	1/26/1995	16	5139	448.42	197.80004	250.61996	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	11/14/1995	16	5431	448.7	201.479182	247.22082	359	359	500
3447103	6393653.47	20120327.54	60	96	1329888	473798	6	11/22/1996	17	5805	437.7	204.241743	233.45826	359	359	500
3447205	6399995.791	20120298.22	61	97	1427479	511224	7	3/20/1998	19	6288	264.8	224.534479	40.265521	-267	-286	421
3447302	6412885.748	20123393.74	61	100	1427482	511227	7	7/16/1988	9	2754	302	227.875201	74.124799	-116	-116	450
3447302	6412885.748	20123393.74	61	100	1427482	511227	7	11/17/1988	9	2878	191.62	192.807564	-1.187564	-116	-116	450
3447305	6418851.476	20126087.76	62	101	1428095	511661	7	10/16/1998	19	6498	282	244.056885	37.943115	-345	-345	505
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/12/1988	9	2873	204.95	169.452879	35.497121	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	3/26/1992	13	4103	149.4	217.92218	-68.52218	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	12/11/1992	13	4363	141	220.214672	-79.214672	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	3/17/1993	14	4459	123	216.790755	-93.790755	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	1/20/1995	16	5133	120	202.381607	-82.381607	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/18/1995	16	5435	77	202.365635	-125.36564	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/15/1996	17	5798	80	201.633573	-121.63357	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	4/2/1997	18	5936	9	202.085482	-193.08548	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/16/1999	20	6894	60	203.879081	-143.87908	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/21/2000	21	7265	71	210.858605	-139.85861	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	10/16/2001	22	7594	78	204.763875	-126.76388	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	10/23/2002	23	7966	66	204.969069	-138.96907	-363	-363	490

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	9/3/2003	24	8281	69	208.791001	-139.791	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/10/2004	25	8715	57	199.659464	-142.65946	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/30/2005	26	9100	60	201.211733	-141.21173	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	9/20/2006	27	9394	-38	190.668777	-228.66878	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/2/2007	28	9802	-15	196.878272	-211.87827	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	1/9/2009	30	10236	-20	191.141281	-211.14128	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	6/9/2010	31	10752	-27	191.98653	-218.98653	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	5/4/2011	32	11081	-13	181.274644	-194.27464	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	11/10/2011	32	11271	-70	175.164431	-245.16443	-363	-363	490
3447504	6407687.126	20103097.81	64	97	1513897	559309	8	10/22/2013	34	11983	-43	190.154434	-233.15443	-363	-363	490
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	8/2/1983	4	944	254	207.170846	46.829154	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	11/9/1988	9	2870	212	153.568523	58.431477	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	2/13/1991	12	3696	127.87	215.508804	-87.638804	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	3/26/1992	13	4103	156.55	214.09372	-57.54372	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	12/11/1992	13	4363	122.75	188.439535	-65.689535	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	3/17/1993	14	4459	150.6	193.648572	-43.048572	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	12/8/1993	14	4725	97.3	206.108852	-108.80885	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	6/15/1994	15	4914	92.7	196.180804	-103.4808	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	1/20/1995	16	5133	50	150.63276	-100.63276	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	11/18/1995	16	5435	106	197.553229	-91.553229	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	11/15/1996	17	5798	107	200.590711	-93.590711	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	4/2/1997	18	5936	117	199.034608	-82.034608	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	11/6/1998	19	6519	101	192.085614	-91.085614	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	11/21/2000	21	7265	82	206.692551	-124.69255	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	10/5/2001	22	7583	94	197.701888	-103.70188	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	10/23/2002	23	7966	103	202.425445	-99.425445	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	9/4/2003	24	8282	110	206.36	-96.36	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	10/6/2006	27	9410	77	178.21065	-101.21065	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	11/2/2007	28	9802	68	188.905735	-120.90574	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	12/1/2008	29	10197	89	180.308326	-91.308326	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	6/9/2010	31	10752	89	180.601318	-91.601318	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	2/16/2011	32	11004	98	171.339614	-73.339614	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	11/20/2012	33	11647	68	169.646227	-101.64623	-48	-48	540
3447704	6390544.845	20093029.93	64	93	1332303	474426	6	10/22/2013	34	11983	62	182.764529	-120.76453	-48	-48	540
3447706	6398404.749	20095700.68	65	95	1110497	410296	4	11/9/1988	9	2870	362	403.059942	-41.059942	213	201	607
3447707	6395525.734	20084933.9	66	93	1333668	474869	6	12/30/1984	5	1460	268	239.120935	28.879065	-104	-110	500
3447902	6422025.07	20090954.18	68	98	1431662	513415	7	12/15/2001	22	7654	182	221.790894	-39.790894	-173	-195	395
3447902	6422025.07	20090954.18	68	98	1431662	513415	7	5/7/2002	23	7797	174	220.369328	-46.369328	-173	-195	395
3447902	6422025.07	20090954.18	68	98	1431662	513415	7	5/8/2002	23	7798	154	214.370146	-60.370146	-173	-195	395
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	12/10/1986	7	2170	132	221.268645	-89.268645	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/17/1988	9	2878	130.41	198.636706	-68.226706	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	5/16/1990	11	3423	183	227.924297	-44.924297	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	2/14/1991	12	3697	139	233.240703	-94.240703	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	3/27/1992	13	4104	147.35	234.060851	-86.710851	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	12/12/1992	13	4364	141.42	236.318589	-94.898589	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	3/18/1993	14	4460	143.64	234.614623	-90.974623	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	12/10/1993	14	4727	143.7	229.244069	-85.544069	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	6/17/1994	15	4916	138.05	200.26798	-62.21798	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	12/7/1994	15	5089	174	224.252831	-50.252831	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/18/1995	16	5435	169	222.148944	-53.148944	-320	-330	530

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/7/1996	17	5790	125	190.942744	-65.942744	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	3/2/1997	18	5905	136	219.513761	-83.513761	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/1/1998	19	6514	154	220.498735	-66.498735	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/3/1999	20	6881	154	224.40867	-70.40867	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	1/12/2001	22	7317	114	230.154873	-116.15487	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	1/23/2002	23	7693	96	222.82268	-126.82268	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/14/2002	23	7988	114	220.738784	-106.73878	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	10/29/2003	24	8337	104	224.688543	-120.68854	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/19/2004	25	8724	106	222.570774	-116.57077	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	11/2/2007	28	9802	39	219.130171	-180.13017	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	8/1/2008	29	10075	74	215.92051	-141.92051	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	6/19/2010	31	10762	56	215.09453	-159.09453	-320	-330	530
3448103	6427168.176	20124021.92	63	102	1513383	559053	8	9/16/2011	32	11216	66	202.580254	-136.58025	-320	-330	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	1/22/1987	8	2213	208.8	256.520252	-47.720252	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	3/13/1987	8	2263	211.35	255.919118	-44.569118	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	2/14/1991	12	3697	224.6	265.664424	-41.064424	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	3/27/1992	13	4104	237.2	266.389215	-29.189215	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	12/9/1993	14	4726	233	254.646791	-21.646791	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	1/25/1995	16	5138	215	256.869712	-41.869712	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/14/1995	16	5431	205.8	256.797491	-50.997491	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/21/1996	17	5804	208.31	254.664833	-46.354833	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/19/1997	18	6167	207.4	254.637469	-47.237469	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/19/1998	19	6532	216.66	254.062619	-37.402619	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/10/1999	20	6888	216	257.783253	-41.783253	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/28/2001	22	7637	211.82	261.256556	-49.436556	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/14/2002	23	7988	210.75	260.180332	-49.430332	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/19/2003	24	8358	212.26	261.355793	-49.095793	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/17/2004	25	8722	210.1	258.030575	-47.930575	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	12/15/2005	26	9115	209.45	258.298872	-48.848872	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/10/2006	27	9445	203.55	252.294804	-48.744804	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/9/2007	28	9809	201.7	253.131026	-51.431026	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/1/2008	29	10167	212	250.824537	-38.824537	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/13/2008	29	10179	241.9	250.736724	-8.836724	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	5/14/2010	31	10726	235	250.432471	-15.432471	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	5/7/2011	32	11084	233	244.811873	-11.811873	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	7/16/2012	33	11520	225	238.520174	-13.520174	-194	-218	530
3448204	6446560.747	20117687.83	66	105	1430442	512764	7	11/16/2012	33	11643	222	238.875239	-16.875239	-194	-218	530
3448303	6453554.104	20114656.42	67	106	1431127	513117	7	4/11/1986	7	1927	223	253.397464	-30.397464	80	11	470
3448303	6453554.104	20114656.42	67	106	1431127	513117	7	2/10/1987	8	2232	226	251.124032	-25.124032	80	11	470
3448304	6451472.973	20117096.84	66	106	1430443	512765	7	7/16/2011	32	11154	230	242.822852	-12.822852	105	84	525
3448304	6451472.973	20117096.84	66	106	1430443	512765	7	11/16/2011	32	11277	225	239.342104	-14.342104	105	84	525
3448304	6451472.973	20117096.84	66	106	1430443	512765	7	7/16/2012	33	11520	225	238.061748	-13.061748	105	84	525
3448304	6451472.973	20117096.84	66	106	1430443	512765	7	11/16/2012	33	11643	221	237.065472	-16.065472	105	84	525
3448501	6448926.073	20112725.22	67	105	1431126	513116	7	3/26/1998	19	6294	246	253.775391	-7.775391	61	52	560
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	3/19/1986	7	1904	253	260.975148	-7.975148	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	2/14/1991	12	3697	262.35	265.965131	-3.615131	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	3/27/1992	13	4104	271.3	266.747377	4.552623	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	12/16/1992	13	4368	269.5	270.029169	-0.529169	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	12/9/1993	14	4726	264.78	264.15167	0.62833	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	1/25/1995	16	5138	252.3	256.971894	-4.671894	85	75	545

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	11/14/1995	16	5431	272	256.775731	15.224269	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	11/19/1997	18	6167	247.1	254.584416	-7.484416	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	11/19/1998	19	6532	253	253.803289	-0.803289	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	11/10/1999	20	6888	266.35	257.753929	8.596071	85	75	545
3448503	6443654.696	20104076.51	68	103	1431667	513420	7	11/16/2000	21	7260	264.9	264.48065	0.41935	85	75	545
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	3/13/1987	8	2263	224.4	260.287066	-35.887066		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/16/1988	9	2877	215.5	249.640002	-34.140002		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	12/9/1993	14	4726	244	268.814658	-24.814658		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/14/1995	16	5431	215.5	261.606633	-46.106633		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/21/1996	17	5804	224.06	259.249334	-35.189334		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/19/1997	18	6167	220.3	258.824879	-38.524879		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/19/1998	19	6532	224.76	258.650853	-33.890853		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/10/1999	20	6888	216.1	262.60006	-46.50006		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/16/2000	21	7260	229.1	269.149875	-40.049875		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/28/2001	22	7637	230.44	266.651098	-36.211098		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/14/2002	23	7988	228.55	265.176594	-36.626594		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/19/2003	24	8358	220.15	252.358862	-32.208862		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/17/2004	25	8722	224.81	263.431866	-38.621866		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	12/15/2005	26	9115	228.14	263.960745	-35.820745		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/10/2006	27	9445	217.45	258.518326	-41.068326		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/9/2007	28	9809	220.91	258.836734	-37.926734		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	7/1/2008	29	10044	201	257.695588	-56.695588		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	11/13/2008	29	10179	232.7	256.663158	-23.963158		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	5/13/2010	31	10725	212	256.077312	-44.077312		63	502
3448604	6450710.453	20109257.61	67	105	1431126	513116	7	12/9/2010	31	10935	192	253.978281	-61.978281		63	502
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	3/17/1981	2	76	409.95	406.251858	3.698142	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/11/1981	2	315	412.92	405.952813	6.967187	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/9/1983	4	1043	415.02	405.796705	9.223295	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/17/1984	5	1417	412.97	407.226171	5.743829	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/14/1986	7	2144	413.81	404.066223	9.743777	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	12/15/1987	8	2540	429.63	404.485263	25.144737	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/17/1988	9	2878	414.6	407.083301	7.516699	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	10/20/1989	10	3215	417.42	407.817913	9.602087	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	9/20/1990	11	3550	420.74	407.012782	13.727218	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/15/1991	12	3971	418.92	406.461668	12.458332	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	12/12/1992	13	4364	417.95	408.087911	9.862089	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	12/8/1993	14	4725	417.1	405.920929	11.179071	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	1/26/1995	16	5139	433.41	405.09815	28.31185	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/14/1995	16	5431	419	406.846749	12.153251	404	404	440
3448701	6432653.682	20091119.53	69	100	1114424	411284	4	11/22/1996	17	5805	409.59	404.892875	4.697125	404	404	440
3448702	6433792.981	20088636.16	69	100	1335955	475707	6	8/29/1985	6	1702	280	263.715676	16.284324	160	160	480
3448702	6433792.981	20088636.16	69	100	1335955	475707	6	4/19/1989	10	3031	288.9	254.415808	34.484192	160	160	480
3448704	6429517.533	20090271.34	69	100	1335955	475707	6	5/15/1994	15	4883	255	249.827909	5.172091	95	85	435
3448704	6429517.533	20090271.34	69	100	1335955	475707	6	5/21/1999	20	6715	255.7	243.776258	11.923742	95	85	435
3448705	6429526.479	20090068.86	69	100	1335955	475707	6	9/28/2004	25	8672	275.2	259.798553	15.401447	110	105	450
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	11/11/1981	2	315	238.26	270.633148	-32.373148	-30	-31	500
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	11/9/1983	4	1043	231.38	265.107337	-33.727337	-30	-31	500
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	11/16/1984	5	1416	234.16	265.001685	-30.841685	-30	-31	500
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	11/6/1985	6	1771	233.09	263.835026	-30.745026	-30	-31	500
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	11/14/1986	7	2144	228.05	259.418917	-31.368917	-30	-31	500

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	10/20/1989	10	3215	226.07	255.541057	-29.471057	-30	-31	500
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	9/20/1990	11	3550	225.45	266.278884	-40.828884	-30	-31	500
3448802	6444182.373	20098018.2	69	103	1432270	513788	7	11/14/1995	16	5431	223.6	258.826259	-35.226259	-30	-31	500
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/17/1988	9	2878	203	188.919875	14.080125	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/16/1991	12	3972	199	229.412896	-30.412896	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	3/27/1992	13	4104	198.64	226.485633	-27.845633	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	3/18/1993	14	4460	200.5	220.22123	-19.72123	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	6/17/1994	15	4916	196.42	216.381131	-19.961131	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	12/9/1994	15	5091	188	222.538759	-34.538759	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/18/1995	16	5435	193	216.015337	-23.015337	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/7/1996	17	5790	190	210.923955	-20.923955	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	3/2/1997	18	5905	193	211.254387	-18.254387	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/1/1998	19	6514	218	216.325211	1.674789	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/3/1999	20	6881	198	219.206651	-21.206651	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	1/12/2001	22	7317	203	225.455096	-22.455096	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	12/22/2001	22	7661	191	216.031925	-25.031925	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/14/2002	23	7988	189	211.028665	-22.028665	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	10/29/2003	24	8337	188	217.05236	-29.05236	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	11/19/2004	25	8724	188	217.431798	-29.431798	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	8/1/2008	29	10075	158	213.377639	-55.377639	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	6/19/2010	31	10762	130	212.158629	-82.158629	-552	-564	498
3448803	6439510.896	20085444.02	70	101	1516745	561315	8	1/16/2012	33	11338	59	197.825576	-138.825576	-552	-564	498
3448804	6444322.244	20096808.21	69	103	1432270	513788	7	9/25/1982	3	633	285	273.107822	11.892178	-20	-20	505
3448805	6441921.843	20087173.05	70	101	1432868	514116	7	3/24/1981	2	83	273	275.567332	-2.567332	43	35	515
3448805	6441921.843	20087173.05	70	101	1432868	514116	7	8/18/1989	10	3152	254.4	254.975147	-0.575147	43	35	515
3449510	6175106.95	20050484.9	52	54	1577460	607204	9	8/10/1999	20	6796	302	303.143347	-1.143347	-115	-146	432
3449511	6175017.477	20050582.66	52	54	1577460	607204	9	7/24/2003	24	8240	282	295.632273	-13.632273	-152	-152	434
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	1/1/1981	2	1	405	328.027327	76.972673	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	4/10/1987	8	2291	400.66	305.407862	95.252138	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	2/19/1988	9	2606	400.7	307.016676	93.683324	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	12/8/1988	9	2899	399.53	311.341008	88.188992	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	12/29/1989	10	3285	399.4	319.790762	79.609238	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	10/24/1990	11	3584	399.9	319.903358	79.996642	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	12/5/1991	12	3991	399.5	320.766163	78.733837	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/24/1992	13	4346	401.8	325.627825	76.172175	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	10/23/1993	14	4679	397.9	319.626641	78.273359	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	1/24/1995	16	5137	400.98	312.261282	88.718718	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/17/1995	16	5434	399.9	313.776825	86.123175	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/13/1996	17	5796	398.15	310.387983	87.762017	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/19/1997	18	6167	399.28	312.653939	86.626061	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/14/1998	19	6527	399	313.95308	85.04692	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/11/1999	20	6889	399.6	317.406753	82.193247	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/29/2000	21	7273	399.05	320.762416	78.287584	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/22/2001	22	7631	399.2	318.547383	80.652617	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	10/18/2002	23	7961	400.47	317.430082	83.039918	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/13/2003	24	8352	400.78	319.584673	81.195327	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	11/5/2004	25	8710	399.8	318.287361	81.512639	245	245	445
3449810	6179977.664	20034754.99	55	53	1510511	557398	8	12/16/2005	26	9116	399.96	317.001361	82.958639	245	245	445
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	4/14/1987	8	2295	292.17	300.363787	-8.193787	-91	-91	562
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	2/20/1988	9	2607	290.13	301.058661	-10.928661	-91	-91	562

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	12/7/1988	9	2898	282.45	299.540647	-17.090647	-91	-91	562
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	12/28/1989	10	3284	284.4	307.867746	-23.467746	-91	-91	562
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	12/4/1991	12	3990	285.8	297.707229	-11.907229	-91	-91	562
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	11/14/1992	13	4336	280.4	300.629471	-20.229471	-91	-91	562
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	10/23/1993	14	4679	285.5	292.622207	-7.122207	-91	-91	562
3450206	6215802.782	20068216.94	53	62	1509857	557065	8	1/14/1995	16	5127	281.94	285.436619	-3.496619	-91	-91	562
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/18/1981	2	322	319.61	328.483285	-8.873285	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/17/1983	4	1051	310.96	318.053832	-7.093832	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/16/1984	5	1416	303.21	305.09633	-1.88633	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/8/1985	6	1773	300.97	297.48677	-3.48323	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/7/1986	7	2137	298.34	292.834456	-5.505544	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	12/17/1987	8	2542	298.08	306.370947	-8.290947	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	12/7/1988	9	2898	294.15	306.054701	-11.904701	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	12/28/1989	10	3284	294.6	317.277772	-22.677772	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	10/18/1990	11	3578	295.6	306.333892	-10.733892	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	12/4/1991	12	3990	300.8	306.667079	-5.867079	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/14/1992	13	4336	301.7	312.342103	-10.642103	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	10/23/1993	14	4679	300	300.07303	-0.07303	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/15/1995	16	5432	294.5	292.53446	1.96554	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/13/1996	17	5796	295.91	292.943715	2.966285	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/7/1997	18	6155	292.24	298.932957	-6.692957	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/17/1998	19	6530	286.9	301.054036	-14.154036	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/11/1999	20	6889	287.6	302.343604	-14.743604	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/29/2000	21	7273	285.9	311.452365	-25.552365	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	10/18/2002	23	7961	283.23	308.717747	-25.487747	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/13/2003	24	8352	279.84	310.469299	-30.629299	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	12/15/2005	26	9115	273.65	304.143234	-30.493234	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/29/2006	27	9464	269.2	295.796446	-26.596446	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/29/2007	28	9829	271.73	298.958331	-27.228331	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/5/2008	29	10171	267.55	295.0355	-27.4855	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/11/2009	30	10542	270.32	296.782617	-26.462617	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/6/2010	31	10902	243.4	277.222186	-33.822186	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	12/2/2011	32	11293	250.14	281.641072	-31.501072	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/16/2012	33	11643	250.41	283.972849	-33.562849	-127	-129	520
3450306	6219752.201	20070839.54	52	63	1509387	556828	8	11/16/2013	34	12008	249.98	293.532908	-43.552908	-127	-129	520
3450307	6228150.214	20070612.98	53	64	1424260	509451	7	12/29/1998	19	6572	339.66	332.258493	7.401507	-3	-3	537
3450307	6228150.214	20070612.98	53	64	1424260	509451	7	8/28/1999	20	6814	337.66	334.355613	3.304387	-3	-3	537
3450407	6203737.896	20044555.95	55	58	1578460	607992	9	4/9/1987	8	2290	255.4	268.157279	-12.757279	-321	-326	484
3450408	6206061.738	20046669.78	55	59	1510517	557404	8	4/15/1987	8	2296	378	334.522528	43.477472	-272	-272	488
3450409	6201775.599	20057959.98	53	59	1577846	607516	9	7/23/1981	2	204	287	284.377714	2.622286	-291	-304	490
3450508	6215636.465	20049970.22	56	60	1510821	557553	8	8/5/1985	6	1678	328	305.068492	22.931508		-110	500
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	3/19/1981	2	78	457.97	455.973529	1.996471	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/18/1981	2	322	456.23	455.623737	0.606263	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/17/1983	4	1051	456.56	455.31224	1.24776	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/16/1984	5	1416	457.46	457.667678	-0.207678	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/6/1986	7	2136	462.95	451.552939	11.397061	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	2/20/1988	9	2607	461.21	454.640876	6.569124	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	12/7/1988	9	2898	458.89	457.699792	1.190208	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	12/28/1989	10	3284	458.3	458.221998	0.078002	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	10/18/1990	11	3578	460	456.39175	3.60825	427	427	468

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated Well Depth msl	Ground Surface Elevation msl
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	12/4/1991	12	3990	462.2	455.412337	6.787663	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/14/1992	13	4336	460.7	458.552472	2.147528	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	10/23/1993	14	4679	462	454.872789	7.127211	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	1/14/1995	16	5127	463.95	453.161234	10.788766	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/17/1995	16	5434	459.85	456.950467	2.899533	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/13/1996	17	5796	457.25	452.924561	4.325439	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/7/1997	18	6155	458.5	456.086125	2.413875	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/17/1998	19	6530	461.15	455.792706	5.357294	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/11/1999	20	6889	458.9	458.567901	0.332099	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/13/2003	24	8352	458.98	456.834616	2.145384	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	12/15/2005	26	9115	456.42	456.637709	-0.217709	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/6/2008	29	10172	458.85	454.667767	4.182233	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/11/2009	30	10542	460.72	453.421269	7.298731	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/6/2010	31	10902	458.85	453.447747	5.402253	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/16/2012	33	11643	455.48	453.409027	2.070973	427	427	468
3451103	6237711.992	20068913.05	54	66	1100253	405926	4	11/16/2013	34	12008	455.98	456.441029	-0.461029	427	427	468
3451107	6236431.363	20073869.68	53	66	1424262	509453	7	9/6/1983	4	979	270	321.46693	-51.46693	-38	-154	502
3451107	6236431.363	20073869.68	53	66	1424262	509453	7	4/11/1987	8	2292	285.8	313.916274	-28.116274	-38	-154	502
3451805	6254672.922	20035055.01	62	66	1512894	558784	8	2/26/1988	9	2613	210	233.199002	-23.199002	-190	-195	530
3451906	6271842.04	20035222.67	63	68	1108619	409685	4	7/20/1993	14	4584	544.3	416.228194	128.07181		529	590
3451906	6271842.04	20035222.67	63	68	1108619	409685	4	9/20/2002	23	7933	542.35	414.509916	127.84008		529	590
3452313	6305405.172	20071631.77	60	77	1427009	510915	7	1/8/2002	23	7678	335.24	284.009593	51.230407	-355	-365	405
3452504	6289661.341	20053464.53	62	73	1428067	511633	7	3/19/1981	2	78	298.26	277.993994	20.266006	-200	-210	440
3452504	6289661.341	20053464.53	62	73	1428067	511633	7	11/18/1981	2	322	297.62	276.188598	21.431402	-200	-210	440
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/18/1981	2	322	424.66	376.18333	48.47667		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/8/1985	6	1773	427.6	376.254875	51.345125		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/6/1986	7	2136	430.9	371.527105	59.372895		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	2/20/1988	9	2607	434.1	373.594679	60.505321		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	12/7/1988	9	2898	433.5	377.137676	56.362324		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/10/1989	10	3236	429.9	378.826746	51.073254		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	10/18/1990	11	3578	432	377.360806	54.639194		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	12/4/1991	12	3990	434.8	376.180716	58.619284		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	10/23/1993	14	4679	475.5	375.778831	99.721169		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	1/25/1995	16	5138	472.77	373.262331	99.507669		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/13/1996	17	5796	475.77	372.877122	102.89288		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/7/1997	18	6155	431.75	375.947275	55.802725		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/17/1998	19	6530	439.17	376.064087	63.105913		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/11/1999	20	6889	432.7	379.490395	53.209605		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/29/2000	21	7273	432.7	378.66399	54.03601		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	10/17/2002	23	7960	433.53	376.321282	57.208718		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/13/2003	24	8352	432.63	377.706914	54.923086		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/18/2004	25	8723	431.46	377.262105	54.197895		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	12/15/2005	26	9115	429.85	377.530706	52.319294		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/30/2006	27	9465	428.05	375.830438	52.219562		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/28/2007	28	9828	430.39	375.272202	55.117798		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/6/2008	29	10172	433.1	374.888067	58.211933		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/11/2009	30	10542	437.97	373.429745	64.540255		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/6/2010	31	10902	431.1	373.17093	57.92907		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	12/2/2011	32	11293	427.59	371.529896	56.060104		398	496
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/15/2012	33	11642	426.61	372.640762	53.969238		398	496

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3452507	6291704.094	20051326.84	62	73	1107487	409232	4	11/16/2013	34	12008	430.53	376.232516	54.297484		398	496
3452608	6305474.321	20055115.45	63	76	1428649	511925	7	6/6/1987	8	2348	216	226.759858	-10.759858	-228	-439	421
3452609	6302066.826	20056598.85	62	75	1331013	474075	6	10/21/1988	9	2851	190	203.836013	-13.836013	-39	-45	465
3452610	6304188.793	20057191.5	62	76	1331014	474076	6	10/21/1991	12	3946	219	230.621259	-11.621259	-47	-47	355
3452610	6304188.793	20057191.5	62	76	1331014	474076	6	10/17/2002	23	7960	234.84	237.164232	-2.324232	-47	-47	355
3453204	6322887.854	20076298.12	61	81	1330362	473930	6	3/5/2003	24	8099	77	175.879209	-98.879209	-80	-80	432
3453205	6323999.609	20068033.18	63	80	1331636	474231	6	3/21/1999	20	6654	5	104.201907	-99.201907	-226	-235	410
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/12/1981	2	316	437.88	401.648472	36.231528	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/11/1983	4	1045	437.69	401.520209	36.169791	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/17/1984	5	1417	436.23	402.257684	33.972316	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/6/1985	6	1771	437.1	401.667582	35.432418	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/13/1986	7	2143	439.38	400.021138	39.358862	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	12/16/1987	8	2541	439.83	400.734298	39.095702	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	10/20/1989	10	3215	436.05	402.622078	33.427922	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	9/20/1990	11	3550	435.1	401.751423	33.348577	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/16/1991	12	3972	437.04	401.830548	35.209452	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	12/13/1992	13	4365	436.85	403.026608	33.823392	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	12/11/1993	14	4728	436.75	401.085283	35.664717	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	1/25/1995	16	5138	439.24	400.841775	38.398225	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/15/1995	16	5432	433	400.831477	32.168523	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/19/1996	17	5802	432.8	398.984018	33.815982	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/18/1997	18	6166	433.3	400.46699	32.83301	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/19/1998	19	6532	433.83	400.579339	33.250661	172	171	450
3453301	6340363.012	20076918.97	63	84	1108680	409746	4	11/10/1999	20	6888	430.7	401.118465	29.581535	172	171	450
3453303	6341479.013	20074837.17	63	84	1108680	409746	4	5/3/1988	9	2680	383	384.906867	-1.906867	96	96	442
3453304	6336747.436	20075147	62	83	1107569	409314	4	1/7/1989	10	2929	444	412.445428	31.554572	200	200	460
3453305	6347841.188	20072467.14	64	84	1109646	410039	4	9/19/1984	5	1358	410	403.181499	6.818501	113	110	410
3453503	6324954.322	20057329.29	64	79	1332289	474412	6	11/1/2004	25	8706	45	125.37587	-80.37587	-200	-200	395
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	9/27/1983	4	1000	155	216.168538	-61.168538	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/9/1988	9	2870	121	169.571442	-48.571442	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	2/13/1991	12	3696	106	218.552385	-112.55239	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	3/26/1992	13	4103	130.56	217.105356	-86.545356	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	12/11/1992	13	4363	115.95	219.34524	-103.39524	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	3/17/1993	14	4459	106.55	214.300422	-107.75042	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	7/1/1993	14	4565	65	211.014634	-146.01463	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	12/8/1993	14	4725	91.1	208.160173	-117.06017	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	6/15/1994	15	4914	102.27	200.184637	-97.914637	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	1/20/1995	16	5133	95	197.244775	-102.24478	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/18/1995	16	5435	67	200.664512	-133.66451	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/15/1996	17	5798	70	201.90504	-131.90504	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/6/1998	19	6519	-18	192.17926	-210.17926	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	9/8/1999	20	6825	19	198.365131	-179.36513	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/21/2000	21	7265	-25	210.196698	-235.1967	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	10/12/2001	22	7590	5	202.182222	-197.18222	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	10/11/2002	23	7954	17	206.714983	-189.71498	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	9/11/2003	24	8289	-25	208.219232	-233.21923	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/10/2004	25	8715	-27	191.482351	-218.48235	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	1/10/2006	27	9141	-27	196.71392	-223.71392	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/2/2007	28	9802	-16	194.75766	-210.75766	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	1/10/2009	30	10237	-25	186.376746	-211.37675	-314	-327	460

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	6/9/2010	31	10752	-34	186.137332	-220.13733	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	2/25/2011	32	11013	-9	176.587431	-185.58743	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	11/20/2012	33	11647	-37	176.623616	-213.62362	-314	-327	460
3453604	6347946.793	20061728.48	66	83	1333658	474859	6	10/22/2013	34	11983	-36	190.402929	-226.40293	-314	-327	460
3453606	6348218.315	20049070.61	68	82	1335217	475450	6	6/3/1999	20	6728	84	144.845744	-60.845744	-282	-302	469
3453607	6340204.945	20049750.3	67	81	1334514	475171	6	6/13/2004	25	8565	23	113.993681	-90.993681	-404	-429	411
3453608	6340588.631	20052908.08	67	81	1431102	513092	7	8/31/2004	25	8644	18	109.832518	-91.832518	-441	-454	420
3453804	6335524.894	20044590.41	67	80	1334513	475170	6	12/7/1988	9	2898	165.2	178.91854	-13.71854	-280	-295	445
3454105	6359591.226	20066474.05	66	86	1333661	474862	6	11/19/1998	19	6532	4.4	95.204976	-90.804976	-358	-378	465
3454207	6361935.356	20075998.61	65	87	1429788	512424	7	11/9/1988	9	2870	24	83.461776	-59.461776	-499	-546	455
3454306	6379402.122	20076841.96	66	90	1430427	512749	7	9/17/1985	6	1721	155	175.479377	-20.479377	-330	-331	570
3454307	6381251.551	20077731.8	66	90	1430427	512749	7	5/10/2002	23	7800	90	143.863683	-53.863683	-408	-426	534
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/12/1981	2	316	377.14	220.784395	156.35561	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/9/1983	4	1043	375.9	214.727833	161.17217	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/17/1984	5	1417	374.56	209.795173	164.76483	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/13/1986	7	2143	374.96	204.469682	170.49032	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	12/15/1987	8	2540	374.97	202.014568	172.95543	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	12/6/1988	9	2897	374.37	168.843204	205.5268	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	10/20/1989	10	3215	374.12	205.862576	168.25742	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	12/13/1992	13	4365	375.75	219.242852	156.50715	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	12/12/1993	14	4729	374.7	208.780985	165.91902	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/19/1998	19	6532	371.5	193.192315	178.30769	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/11/1999	20	6889	370.27	200.073044	170.19696	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/16/2000	21	7260	369.8	209.044185	160.75582	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/14/2002	23	7988	369.74	205.878271	163.86173	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/18/2003	24	8357	370.04	207.468096	162.5719	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/17/2004	25	8722	369.72	191.274563	178.44544	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/12/2008	29	10178	369.07	185.122607	183.94739	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/13/2009	30	10544	367.81	193.515746	174.29425	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/5/2010	31	10901	365.8	183.897207	181.90279	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/30/2011	32	11291	361.92	225.731581	136.18842	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/17/2012	33	11644	363.28	175.710731	187.56927	-46	-46	408
3454503	6366902.964	20059992	68	86	1335221	475454	6	11/13/2013	34	12005	362.81	189.822054	172.98795	-46	-46	408
3454504	6362613.095	20049776.56	69	85	1335940	475692	6	5/21/1988	9	2698	395	290.544362	104.45564	235	230	470
3454505	6362617.36	20049675.3	69	85	1432252	513770	7	7/10/2007	28	9687	119	160.549999	-41.549999	-628	-638	478
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	3/17/1981	2	76	223.9	230.561232	-6.661232	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/6/1985	6	1771	224.53	218.174515	6.355485	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/14/1986	7	2144	84.15	173.701702	-89.551702	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	12/7/1988	9	2898	78.17	179.158726	-100.98873	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/11/1989	10	3237	62.86	212.852802	-149.9928	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	9/21/1990	11	3551	64.05	224.761562	-160.71156	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	12/17/1992	13	4369	65.45	226.890593	-161.44059	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	3/19/1993	14	4461	71.9	223.665808	-151.76581	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	12/11/1993	14	4728	49.55	217.956049	-168.40605	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	6/16/1994	15	4915	43.3	211.807074	-168.50707	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/15/1995	16	5432	16.65	210.788973	-194.13897	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/20/1997	18	6168	26	154.368224	-128.36822	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/1/1998	19	6514	94	203.503054	-109.50305	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	1/12/2001	22	7317	39	216.750532	-177.75053	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	12/6/2001	22	7645	25	210.191413	-185.19141	-303	-318	500

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/8/2002	23	7982	-12	213.973543	-225.97354	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/19/2003	24	8358	-19	215.491936	-234.49194	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	12/2/2004	25	8737	-22	201.210566	-223.21057	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	1/27/2006	27	9158	38	202.610026	-164.61003	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/16/2006	27	9451	15	192.359211	-177.35921	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/21/2007	28	9821	7	202.283372	-195.28337	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/30/2011	32	11291	52.51	177.501436	-124.99144	-303	-318	500
3454602	6385564.173	20061192.99	69	90	1335945	475697	6	11/16/2012	33	11643	34.04	184.328535	-150.28854	-303	-318	500
3454603	6386510.83	20061132.17	69	90	1335945	475697	6	3/12/1987	8	2262	163	187.364644	-24.364644	-273	-273	429
3454604	6377597.95	20054770.79	70	88	1432855	514103	7	4/7/1989	10	3019	120	161.982459	-41.982459	-358	-362	360
3454705	6357854.758	20044508.73	70	84	1432851	514099	7	12/28/2006	27	9493	161	178.628425	-17.628425	-836	-846	523
3454802	6365968.076	20039478.9	71	84	1337430	476196	6	7/21/1995	16	5315	418.7	215.304298	203.3957		50	510
3454802	6365968.076	20039478.9	71	84	1337430	476196	6	11/15/1995	16	5432	408.5	216.178976	192.32102		50	510
3454802	6365968.076	20039478.9	71	84	1337430	476196	6	11/22/1996	17	5805	414.17	215.74981	198.42019		50	510
3454802	6365968.076	20039478.9	71	84	1337430	476196	6	11/19/1997	18	6167	405.35	214.064507	191.28549		50	510
3454802	6365968.076	20039478.9	71	84	1337430	476196	6	11/19/1998	19	6532	416	208.909615	207.09039		50	510
3454802	6365968.076	20039478.9	71	84	1337430	476196	6	11/10/1999	20	6888	414.95	215.929675	199.02033		50	510
3455106	6399423.805	20074155.61	68	93	1113372	410959	4	9/9/1985	6	1713	376	389.899017	-13.899017	210	200	420
3455107	6389450.848	20078590.43	67	92	1515392	560423	8	7/2/1995	16	5296	112	151.813507	-39.813507	-745	-745	500
3455108	6389879.065	20078608.86	67	92	1515392	560423	8	9/6/2007	28	9745	7	94.212471	-87.212471	-721	-731	493
3455301	6417725.203	20081440.38	69	97	1114387	411247	4	3/24/1982	3	448	390.4	386.18218	4.21782		310	425
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	4/11/1987	8	2292	314.45	247.080008	67.369992		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	9/20/1990	11	3550	313.8	257.453207	56.346793		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	2/15/1991	12	3698	316.32	258.822472	57.497528		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	3/27/1992	13	4104	320.5	259.734833	60.765167		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	12/12/1992	13	4364	318	262.634275	55.365725		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	3/19/1993	14	4461	320.2	261.263067	58.936933		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	12/9/1993	14	4726	316.93	255.971032	60.958968		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	1/26/1995	16	5139	316.94	248.061242	68.878758		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/14/1995	16	5431	311.4	248.847522	62.552478		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/19/1997	18	6167	312.1	247.163813	64.936187		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/19/1998	19	6532	311.58	244.646294	66.933706		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/10/1999	20	6888	309.9	249.351948	60.548052		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/16/2000	21	7260	308.65	255.008857	53.641143		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/27/2001	22	7636	309.15	251.309016	57.840984		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/14/2002	23	7988	309	251.841258	57.158742		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/19/2003	24	8358	301.64	253.215675	48.424325		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/17/2004	25	8722	303.2	245.865313	57.334687		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	12/15/2005	26	9115	303.15	247.29321	55.85679		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/10/2006	27	9445	300.3	239.396526	60.903474		152	432
3455303	6423635.277	20068016.78	72	97	1434142	514831	7	11/9/2007	28	9809	302.31	242.549831	59.760169		152	432
3455304	6415303.838	20079915.19	69	96	1432263	513781	7	3/17/1984	5	1172	250	242.3627	7.6373	-87	-290	430
3455304	6415303.838	20079915.19	69	96	1432263	513781	7	8/18/1989	10	3152	187.7	208.398944	-20.698944	-87	-290	430
3455401	6393554.867	20055049.36	71	90	1116429	411668	4	3/26/1998	19	6294	458.44	405.030913	53.409087		450	500
3455408	6394764.918	20052871.74	72	90	1434135	514824	7	8/30/1990	11	3529	217	226.704283	-9.704283	-357	-377	630
3455410	6390022.432	20063310.37	69	91	1432258	513776	7	7/16/2008	29	10059	118	157.701405	-39.701405	-713	-723	527
3455411	6390129.96	20062807.81	69	91	1432258	513776	7	5/29/2008	29	10011	120	159.369297	-39.369297	-334	-344	546
3455903	6425547.922	20044078.01	76	95	1519046	562951	8	11/17/2012	33	11644	161.4	174.050818	-12.650818	-611	-629	451
3455914	6416236.354	20044885.49	75	93	1435875	516066	7	8/9/1984	5	1317	312	284.633237	27.366763	-15	-15	385
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/16/1984	5	1416	245.44	217.432687	28.007313	-2	-12	493

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/13/1986	7	2143	269	226.109829	42.890171	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	12/15/1987	8	2540	267.37	212.138373	55.231627	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/17/1988	9	2878	268.15	187.243757	80.906243	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	10/20/1989	10	3215	258.43	209.127415	49.302585	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	9/20/1990	11	3550	268.32	223.915607	44.404393	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/15/1991	12	3971	267.37	229.243746	38.126254	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	12/12/1992	13	4364	265.31	227.988124	37.321876	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	12/9/1993	14	4726	246.85	223.772357	23.077643	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	1/26/1995	16	5139	264.13	220.426267	43.703733	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/14/1995	16	5431	246.8	215.799858	31.000142	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/22/1996	17	5805	264.06	210.944278	53.115722	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/20/1997	18	6168	244.42	214.134058	30.285942	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/19/1998	19	6532	256.4	217.23981	39.16019	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/9/2007	28	9809	242.42	217.690861	24.729139	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/12/2008	29	10178	254.57	213.234963	41.335037	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/13/2009	30	10544	240.17	217.40422	22.76578	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/5/2010	31	10901	241.4	211.20137	30.19863	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/16/2012	33	11643	231.9	202.271613	29.628387	-2	-12	493
3456207	6442575.615	20072504.46	73	100	1518064	562224	8	11/13/2013	34	12005	223.91	211.970194	11.939806	-2	-12	493
3456208	6445505.387	20074155.77	73	101	1518065	562225	8	2/1/1986	7	1858	231	215.851093	15.148907	-455	-472	495
3456208	6445505.387	20074155.77	73	101	1518065	562225	8	11/17/1988	9	2878	209	192.806689	16.193311	-455	-472	495
3456208	6445505.387	20074155.77	73	101	1518065	562225	8	2/15/1991	12	3698	215.85	223.720852	-7.870852	-455	-472	495
3456208	6445505.387	20074155.77	73	101	1518065	562225	8	12/12/1992	13	4364	216.25	223.478461	-7.228461	-455	-472	495
3456208	6445505.387	20074155.77	73	101	1518065	562225	8	3/19/1993	14	4461	213.4	223.070874	-9.670874	-455	-472	495
3456208	6445505.387	20074155.77	73	101	1518065	562225	8	12/9/1993	14	4726	212.98	219.961251	-6.981251	-455	-472	495
3456208	6445505.387	20074155.77	73	101	1518065	562225	8	11/14/1995	16	5431	204.3	211.280973	-6.980973	-455	-472	495
3456703	6437293.118	20050375.37	76	97	1340986	477258	6	11/12/1981	2	316	503.37	286.040387	217.32961		482	517
3456703	6437293.118	20050375.37	76	97	1340986	477258	6	11/9/1983	4	1043	503.51	281.627299	221.8827		482	517
3456703	6437293.118	20050375.37	76	97	1340986	477258	6	11/16/1984	5	1416	506.78	282.665792	224.11421		482	517
3456705	6434273.627	20044868.93	76	96	1519047	562952	8	8/24/1993	14	4619	210	214.789002	-4.789002	-548	-590	450
3457205	6176232.377	20017491.9	57	51	1511151	557691	8	6/29/1990	11	3467	285	296.733668	-11.733668	-14	-19	450
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	3/19/1981	2	78	398.4	319.60316	78.79684	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/18/1981	2	322	398.17	319.245269	78.924731	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/17/1983	4	1051	398.3	313.456232	84.843768	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/17/1984	5	1417	397.44	314.476259	82.963741	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/8/1985	6	1773	397.86	309.341902	88.518098	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/4/1986	7	2134	400.28	299.276233	101.00377	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	2/19/1988	9	2606	402.05	297.540316	104.50968	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	12/2/1988	9	2893	400.59	303.210233	97.379767	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	12/29/1989	10	3285	400.3	308.561575	91.738425	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	10/24/1990	11	3584	402.1	307.431186	94.668814	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	12/5/1991	12	3991	399.5	306.077455	93.422545	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/24/1992	13	4346	404.3	311.029149	93.270851	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	10/23/1993	14	4679	408.7	305.290149	103.40985	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	1/24/1995	16	5137	406.38	296.3246	110.0554	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/17/1995	16	5434	404.9	299.220848	105.67915	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/13/1996	17	5796	402.4	293.794643	108.60536	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/19/1997	18	6167	402.72	295.485858	107.23414	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/14/1998	19	6527	403.5	295.994358	107.50564	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/11/1999	20	6889	402.6	300.856378	101.74362	238	238	448

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/29/2000	21	7273	401.9	308.53275	93.36725	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/22/2001	22	7631	402.5	307.587029	94.912971	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	10/18/2002	23	7961	401.82	305.566602	96.253398	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/13/2003	24	8352	401.61	306.171783	95.438217	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/5/2004	25	8710	401.55	303.682478	97.867522	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	12/16/2005	26	9116	401.47	302.73013	98.73987	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/28/2006	27	9463	399.98	297.086688	102.89331	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/27/2007	28	9827	399.14	296.251569	102.88843	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/6/2008	29	10172	401.8	294.287454	107.51255	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/10/2009	30	10541	401.7	292.895513	108.80449	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/6/2010	31	10902	402.4	290.658342	111.74166	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	12/2/2011	32	11293	399.12	284.544272	114.57573	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/16/2012	33	11643	396.79	285.028345	111.76166	238	238	448
3457301	6188704.843	20017065.38	59	53	1329380	473622	6	11/16/2013	34	12008	395.35	292.50766	102.84234	238	238	448
3457309	6188835.423	20017019.55	59	53	1426547	510630	7	12/2/2011	32	11293	307	295.739535	11.260465	-56	-56	444
3457401	6167650.673	20000762.22	59	48	1511847	558101	8	11/18/1981	2	322	289.87	294.810772	-4.940772	210	210	390
3457401	6167650.673	20000762.22	59	48	1511847	558101	8	11/17/1983	4	1051	290.55	293.486759	-2.936759	210	210	390
3457401	6167650.673	20000762.22	59	48	1511847	558101	8	11/17/1984	5	1417	262.67	284.159871	-21.489871	210	210	390
3457401	6167650.673	20000762.22	59	48	1511847	558101	8	11/8/1985	6	1773	275.23	290.011107	-14.781107	210	210	390
3457401	6167650.673	20000762.22	59	48	1511847	558101	8	11/4/1986	7	2134	269.58	279.990267	-10.410267	210	210	390
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	12/29/1989	10	3285	285.8	291.112647	-5.312647	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	10/24/1990	11	3584	282.1	288.698021	-6.598021	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	12/5/1991	12	3991	282.2	291.409859	-9.209859	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/24/1992	13	4346	283.6	294.684351	-11.084351	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	10/23/1993	14	4679	287.2	290.801266	-3.601266	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	4/20/1994	15	4858	286.1	288.725863	-2.625863	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/17/1995	16	5434	287.2	288.946902	-1.746902	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/13/1996	17	5796	286.62	285.174749	1.445251	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/20/1997	18	6168	286.4	286.98342	-0.58342	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/14/1998	19	6527	284.67	287.203994	-2.533994	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/11/1999	20	6889	280.7	290.489018	-9.789018	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/29/2000	21	7273	279.8	291.371375	-11.571375	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/22/2001	22	7631	281.08	290.138553	-9.058553	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	10/18/2002	23	7961	281.36	289.376441	-8.016441	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/12/2003	24	8351	282.58	290.532351	-7.952351	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/5/2004	25	8710	283.2	289.594921	-6.394921	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	12/16/2005	26	9116	279.82	289.145527	-9.325527	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/28/2006	27	9463	278.9	286.473601	-7.573601	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/27/2007	28	9827	281.62	285.912967	-4.292967	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/6/2008	29	10172	281.4	285.083492	-3.683492	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/10/2009	30	10541	281.41	283.864289	-2.454289	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/6/2010	31	10902	278.07	282.88576	-4.81576	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	12/2/2011	32	11293	273.02	279.55509	-6.53509	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/16/2012	33	11643	273.12	279.996192	-6.876192	45	45	385
3457405	6167769.557	20000796.92	59	48	1511847	558101	8	11/15/2013	34	12007	272.75	284.490051	-11.740051	45	45	385
3457406	6168620.178	20000088.41	59	48	1579692	608991	9	8/6/1992	13	4236	229	256.396818	-27.396818	-239	-249	365
3457801	6175712.042	19987174.63	62	48	1428042	511608	7	10/12/1989	10	3207	401.6	349.484979	52.115021	54	54	500
3457804	6180221.907	19988454.75	62	49	1428043	511609	7	10/12/1989	10	3207	369.6	332.520244	37.079756	243	243	468
3457805	6180561.599	19988568.67	62	49	1428043	511609	7	10/12/1989	10	3207	363.25	329.284415	33.965585	235	235	480
3457806	6183630.485	19986959.18	63	49	1331605	474200	6	10/12/1989	10	3207	345.85	319.422655	26.427345	180	180	420

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3458403	6203475.909	20012625.6	61	55	1512508	558505	8	6/7/1983	4	888	180	259.324629	-79.324629	-804	-808	340
3458403	6203475.909	20012625.6	61	55	1512508	558505	8	4/7/1987	8	2288	230.93	261.602536	-30.672536	-804	-808	340
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	3/19/1981	2	78	282	285.819876	-3.819876	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	11/19/1981	2	323	285.12	286.47057	-1.35057	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	11/18/1983	4	1052	277.89	281.678148	-3.788148	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	11/17/1984	5	1417	275.66	275.676889	-0.016889	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	11/8/1985	6	1773	272.83	270.582411	2.247589	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	11/6/1986	7	2136	272.78	264.360334	8.419666	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	12/17/1987	8	2542	273.9	264.416984	9.483016	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	12/29/1989	10	3285	271.1	272.326305	-1.226305	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	10/24/1990	11	3584	267.6	273.954447	-6.354447	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	12/5/1991	12	3991	270.9	274.787096	-3.887096	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	11/14/1992	13	4336	264.9	278.109288	-13.209288	-603	-613	330
3458504	6221657.419	20004496.25	64	57	1513857	559269	8	10/23/1993	14	4679	264.5	272.326443	-7.826443	-603	-613	330
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	3/19/1981	2	78	383.9	337.444019	46.455981		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	11/19/1981	2	323	390.32	337.180371	53.139629		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	11/18/1983	4	1052	388.34	337.127061	51.212939		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	11/17/1984	5	1417	385.49	339.041904	46.448096		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	11/5/1986	7	2135	391.8	333.915138	57.884862		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	12/17/1987	8	2542	390.64	335.433752	55.206248		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	12/2/1988	9	2893	389.45	339.301896	50.148104		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	12/29/1989	10	3285	389.2	339.489827	49.710173		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	10/24/1990	11	3584	392.2	338.011996	54.188004		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	12/5/1991	12	3991	394.6	337.430948	57.169052		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	11/14/1992	13	4336	394.6	339.884197	54.715803		370	410
3458802	6212530.329	19995840.7	64	55	1109505	409946	4	10/23/1993	14	4679	391.7	336.627758	55.072242		370	410
3458904	6235039.472	19989502.89	67	58	1515358	560389	8	10/8/1986	7	2107	234	245.917709	-11.917709	-527	-528	504
3458904	6235039.472	19989502.89	67	58	1515358	560389	8	9/16/1989	10	3181	218.66	248.391379	-29.731379	-527	-528	504
3458904	6235039.472	19989502.89	67	58	1515358	560389	8	3/13/2002	23	7742	208.64	248.526646	-39.886646	-527	-528	504
3459302	6268643.394	20020503.05	65	67	1429768	512404	7	3/20/1981	2	79	291.72	286.229018	5.490982	-85	-127	495
3459302	6268643.394	20020503.05	65	67	1429768	512404	7	11/18/1981	2	322	279.32	285.157517	-5.837517	-85	-127	495
3459302	6268643.394	20020503.05	65	67	1429768	512404	7	11/17/1983	4	1051	284.15	278.344918	5.805082	-85	-127	495
3459302	6268643.394	20020503.05	65	67	1429768	512404	7	11/6/1986	7	2136	281.4	269.755659	11.644341	-85	-127	495
3459306	6268807.113	20020712.35	65	67	1429768	512404	7	8/17/1988	9	2786	300	271.118882	28.881118	-101	-122	500
3459306	6268807.113	20020712.35	65	67	1429768	512404	7	11/9/1989	10	3235	281.6	272.134012	9.465988	-101	-122	500
3459702	6236865.753	19986735.49	68	58	1515805	560727	8	11/26/1981	2	330	265	269.994136	-4.994136	-345	-750	465
3460104	6285607.92	20021682.8	67	69	1515369	560400	8	9/19/1995	16	5375	149	193.877677	-44.877677	-595	-595	680
3460409	6283467.222	20012881.75	68	68	1113302	410889	4	5/10/1988	9	2687	430	407.445094	22.554906	360	360	465
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	6/10/1982	3	526	436.96	389.906037	47.053963	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/17/1983	4	1051	437.05	389.462502	47.587498	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/8/1985	6	1773	434.54	391.890157	42.649843	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/6/1986	7	2136	437.55	382.695462	54.854538	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	2/20/1988	9	2607	438.12	384.513854	53.606146	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	12/6/1988	9	2897	436.22	392.664726	43.555274	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/10/1989	10	3236	437.1	396.903725	40.196275	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	10/18/1990	11	3578	440.3	394.594365	45.705635	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	12/4/1991	12	3990	442.4	391.943595	50.456405	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/14/1992	13	4336	440.9	397.823275	43.076725	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	10/23/1993	14	4679	443.1	391.63216	51.46784	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	1/25/1995	16	5138	443.62	385.421195	58.198805	422	422	486

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/16/1995	16	5433	441.85	391.960551	49.889449	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/13/1996	17	5796	438.24	385.778491	52.461509	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/7/1997	18	6155	438.51	390.380437	48.129563	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/17/1998	19	6530	439.8	391.324817	48.475183	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/11/1999	20	6889	439.35	397.648181	41.701819	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/29/2000	21	7273	438.7	396.734426	41.965574	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/22/2001	22	7631	440.6	393.532058	47.067942	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	9/19/2002	23	7932	440.3	392.077259	48.222741	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	10/17/2002	23	7960	439.95	392.004683	47.945317	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/13/2003	24	8352	438.85	394.231324	44.618676	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/18/2004	25	8723	437.54	393.77123	43.76877	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	12/15/2005	26	9115	436.25	394.181829	42.068171	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	6/14/2006	27	9296	434.7	392.434442	42.265558	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/29/2006	27	9464	433.8	391.172238	42.627762	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/28/2007	28	9828	438.04	389.634451	48.405549	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/6/2008	29	10172	437.15	388.849789	48.300211	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/11/2009	30	10542	439.13	385.884455	53.245545	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/6/2010	31	10902	437.36	385.131264	52.228736	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	12/2/2011	32	11293	434.19	382.118661	52.071339	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/16/2012	33	11643	432.2	383.808197	48.391803	422	422	486
3460502	6293048.797	20015464.09	68	70	1113304	410891	4	11/16/2013	34	12008	431.23	390.819391	40.410609	422	422	486
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	3/20/1981	2	79	173.61	252.968666	-79.358666	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/18/1981	2	322	174.1	252.820372	-78.720372	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/17/1983	4	1051	180.75	245.428182	-64.678182	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/16/1984	5	1416	187.43	231.496364	-44.066364	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/8/1985	6	1773	177.87	224.065801	-46.195801	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/6/1986	7	2136	182.45	218.652372	-36.202372	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	2/20/1988	9	2607	183.58	203.954064	-20.374064	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	12/6/1988	9	2897	186.93	199.388199	-12.458199	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/10/1989	10	3236	186	217.535672	-31.535672	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	12/4/1991	12	3990	185.9	242.539503	-56.639503	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/14/1992	13	4336	183	246.11628	-63.11628	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	10/23/1993	14	4679	192.2	238.605525	-46.405525	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/16/1995	16	5433	198.6	239.396262	-40.796262	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/13/1996	17	5796	202.07	237.811582	-35.741582	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/7/1997	18	6155	195.98	235.801706	-39.821706	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/17/1998	19	6530	189	231.717512	-42.717512	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/11/1999	20	6889	216.4	237.676874	-21.276874	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/29/2000	21	7273	213.8	245.931832	-32.131832	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/22/2001	22	7631	220.26	243.740029	-23.480029	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	10/17/2002	23	7960	218.1	247.531232	-29.431232	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/13/2003	24	8352	220.6	245.76418	-25.16418	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/18/2004	25	8723	221.2	238.709271	-17.509271	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	12/15/2005	26	9115	221.6	239.249057	-17.649057	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/29/2006	27	9464	220	231.174248	-11.174248	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/28/2007	28	9828	218.91	235.912907	-17.002907	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/6/2008	29	10172	218.2	231.388357	-13.188357	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/11/2009	30	10542	217.71	234.192852	-16.482852	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/6/2010	31	10902	213.5	229.881316	-16.381316	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	12/2/2011	32	11293	209.19	219.815034	-10.625034	-659	-701	465

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/15/2012	33	11642	206.27	222.274499	-16.004499	-659	-701	465
3460503	6289278.042	20015637.29	68	70	1515817	560739	8	11/16/2013	34	12008	204.03	231.634887	-27.604887	-659	-701	465
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	2/20/1988	9	2607	275.7	238.812863	36.887137	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	12/7/1988	9	2898	269.75	236.043077	33.706923	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/10/1989	10	3236	265.9	248.187547	17.712453	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	10/18/1990	11	3578	261.6	251.055924	10.544076	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	12/4/1991	12	3990	256.9	251.202267	5.697733	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/14/1992	13	4336	247	254.273894	-7.273894	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	10/23/1993	14	4679	245.6	246.329751	-0.729751	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/16/1995	16	5433	248.15	242.456095	5.693905	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/13/1996	17	5796	236.35	239.842629	-3.492629	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/7/1997	18	6155	251.6	238.923553	12.676447	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/17/1998	19	6530	239.23	236.333546	2.896454	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/29/2000	21	7273	242.9	255.371528	-12.471528	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	10/17/2002	23	7960	240.4	253.593773	-13.193773	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/13/2003	24	8352	238.32	251.112397	-12.792397	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/18/2004	25	8723	237.4	242.710093	-5.310093	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	12/15/2005	26	9115	234.97	251.885113	-16.915113	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/23/2006	27	9458	231.4	243.183002	-11.783002	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/28/2007	28	9828	223	249.886916	-26.886916	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/6/2008	29	10172	218.5	243.513569	-25.013569	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/11/2009	30	10542	227.42	246.419354	-18.999354	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/6/2010	31	10902	224.78	242.730944	-17.950944	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	12/2/2011	32	11293	214.73	233.04984	-18.31984	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/15/2012	33	11642	217.03	237.192956	-20.162956	-167	-167	461
3460505	6298396.33	20012202.92	69	71	1335926	475678	6	11/16/2013	34	12008	215.4	248.506377	-33.106377	-167	-167	461
3460506	6298690.183	20008323.29	70	70	1115344	411383	4	7/11/1985	6	1653	300	381.269769	-81.269769	200	200	425
3460506	6298690.183	20008323.29	70	70	1115344	411383	4	11/8/1989	10	3234	383.32	385.271402	-1.951402	200	200	425
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	1/19/1991	12	3671	214	245.23291	-31.23291	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	2/10/1994	15	4789	249	237.656407	11.343593	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	12/14/1994	15	5096	244	231.949365	12.050635	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/9/1995	16	5426	231	236.799375	-5.799375	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/14/1996	17	5797	222	234.262806	-12.262806	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/11/1997	18	6159	187	233.325456	-46.325456	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/19/1998	19	6532	159	230.582099	-71.582099	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/19/1999	20	6897	143.2	240.52674	-97.32674	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/8/2000	21	7252	140.88	250.082123	-109.20212	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/7/2002	23	7981	138.25	249.194455	-110.94445	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	9/25/2003	24	8303	137.76	245.968583	-108.20858	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/12/2004	25	8717	113.27	236.645574	-123.37557	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	1/12/2006	27	9143	123.18	249.045228	-125.86523	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/9/2006	27	9444	120.43	241.055897	-120.6259	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/6/2008	29	10172	122.67	241.286421	-118.61642	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/19/2009	30	10550	107.27	203.135926	-95.865926	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	12/1/2011	32	11292	105.02	193.471094	-88.451094	-171	-203	449
3460602	6310438.738	20006872.79	71	72	1337418	476184	6	11/14/2012	33	11641	105.22	235.826254	-130.60625	-171	-203	449
3460604	6308128.109	20015089.34	70	73	1115347	411386	4	3/20/1981	2	79	394.2	374.005198	20.194802		380	470
3460605	6311373.084	20011370.13	71	73	1337419	476185	6	3/4/1983	4	793	197	233.487428	-36.487428	-187	-271	535
3460605	6311373.084	20011370.13	71	73	1337419	476185	6	10/17/1989	10	3212	111	201.198167	-90.198167	-187	-271	535
3460802	6294984.349	19993580.01	72	68	1338116	476372	6	4/17/1987	8	2298	292	269.616264	22.383736	-88	-93	592

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3460904	6309293.445	19990610.61	74	71	1339391	476779	6	6/7/1989	10	3080	246	249.204342	-3.204342	-207	-207	583
3460904	6309293.445	19990610.61	74	71	1339391	476779	6	3/20/1996	17	5558	231	243.921141	-12.921141	-207	-207	583
3460905	6304632.676	19988901.6	74	70	1339390	476778	6	10/17/1989	10	3212	221	237.967301	-16.967301	-180	-190	570
3460906	6309375.168	19990715.31	74	71	1339391	476779	6	6/23/2004	25	8575	163	207.487872	-44.487872	-220	-225	590
3461108	6317044.991	20028222.53	68	75	1431639	513392	7	10/17/1989	10	3212	199.75	216.578555	-16.828555	-503	-503	362
3461203	6330618.701	20030299.67	69	78	1432245	513763	7	5/29/1998	19	6358	140	192.389263	-52.389263	-566	-576	441
3461205	6329788.488	20031684.38	69	78	1432245	513763	7	5/31/2009	30	10378	67	142.943987	-75.943987	-488	-488	457
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	11/4/1993	14	4691	167.9	228.18734	-60.28734	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	6/15/1994	15	4914	144.7	222.081978	-77.381978	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	1/20/1995	16	5133	119	219.300111	-100.300111	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	6/1/1995	16	5265	79	221.235794	-142.235794	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	10/28/1995	16	5414	77	222.524778	-145.524778	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	10/6/1996	17	5758	100	221.751674	-121.751674	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	11/19/1998	19	6532	109	214.834611	-105.834611	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	10/26/1999	20	6873	83	222.501488	-139.501488	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	11/8/2000	21	7252	110	231.215695	-121.215695	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	10/17/2001	22	7595	86	226.151589	-140.151589	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	10/11/2002	23	7954	74	229.77095	-155.77095	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	11/10/2004	25	8715	99	217.171604	-118.171604	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	1/10/2006	27	9141	47	223.79755	-176.79755	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	10/13/2006	27	9417	56	213.613947	-157.613947	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	11/2/2007	28	9802	-2	222.454098	-224.454098	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	1/22/2009	30	10249	-11	215.647494	-226.647494	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	6/9/2010	31	10752	26	215.277698	-189.277698	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	2/25/2011	32	11013	17	208.736502	-191.736502	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	11/20/2012	33	11647	-50	207.585361	-257.585361	-437	-451	449
3461307	6339272.088	20026705.12	71	79	1433485	514456	7	10/22/2013	34	11983	39	220.278805	-181.278805	-437	-451	449
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	3/20/1981	2	79	237.69	255.532114	-17.842114	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/19/1981	2	323	233.56	247.720109	-14.160109	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/18/1983	4	1052	223.84	249.322415	-25.482415	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/9/1984	5	1409	218.88	247.223023	-28.343023	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/9/1985	6	1774	207.47	244.133229	-36.663229	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/19/1986	7	2149	208.1	228.087157	-19.987157	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	12/9/1987	8	2534	204	235.044402	-31.044402	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/30/1988	9	2891	198.83	229.095905	-30.265905	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	10/19/1989	10	3214	194.6	242.709426	-48.109426	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	10/13/1990	11	3573	195.2	246.237312	-51.037312	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/23/1991	12	3979	195.9	247.008159	-51.108159	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	2/24/1993	14	4438	197.29	246.544773	-49.254773	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	2/10/1994	15	4789	193.51	238.62484	-45.11484	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	12/14/1994	15	5096	184.59	232.826941	-48.236941	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/9/1995	16	5426	156.96	237.680064	-80.720064	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/14/1996	17	5797	171	235.413848	-64.413848	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/11/1997	18	6159	163.04	233.985152	-70.945152	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/19/1998	19	6532	150.92	231.524086	-80.604086	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/19/1999	20	6897	144.7	240.564595	-95.864595	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/8/2000	21	7252	136.97	247.339935	-110.36994	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/7/2001	22	7616	140.6	242.850345	-102.250345	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/7/2002	23	7981	136.35	247.030866	-110.680866	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	9/25/2003	24	8303	130.2	242.85433	-112.65433	-510	-512	388

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/12/2004	25	8717	122.87	235.691447	-112.82145	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	1/12/2006	27	9143	125.98	243.516003	-117.536	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/9/2006	27	9444	110.68	235.149961	-124.46996	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	2/6/2008	29	9898	128.4	240.95748	-112.55748	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/6/2008	29	10172	120.35	235.600419	-115.25042	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/16/2010	31	10912	113.67	235.551319	-121.88132	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/29/2011	32	11290	102.45	225.620291	-123.17029	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/14/2012	33	11641	106.32	230.525653	-124.20565	-510	-512	388
3461501	6329368.162	20006430.87	73	75	1434693	515145	7	11/14/2013	34	12006	103.85	243.241723	-139.39172	-510	-512	388
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	3/18/1981	2	77	231.82	249.03362	-17.21362	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/21/1981	2	325	227.37	247.163868	-19.793868	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	3/18/1982	3	442	228.15	246.77399	-18.62399	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/3/1982	3	672	224	245.678199	-21.678199	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/8/1983	4	1042	221.04	243.934188	-22.894188	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/15/1984	5	1415	213.69	242.066024	-28.376024	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/10/1985	6	1775	209.88	239.356409	-29.476409	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	12/14/1986	7	2174	201.66	222.518457	-20.858457	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	12/8/1988	9	2899	190.6	223.608264	-33.008264	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	10/19/1989	10	3214	187.75	222.509638	-34.759638	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/16/1990	11	3607	191.8	241.746336	-49.946336	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	12/11/1991	12	3997	192.9	243.209676	-50.309676	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	12/12/1993	14	4729	187.3	235.873255	-48.573255	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	1/20/1995	16	5133	179	228.239486	-49.239486	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	10/6/1996	17	5758	179	231.077129	-52.077129	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/19/1998	19	6532	175	226.383124	-51.383124	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/8/2000	21	7252	136	239.729143	-103.72914	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/8/2001	22	7617	152	210.386048	-58.386048	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	10/7/2002	23	7950	129	240.017881	-111.01788	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/10/2004	25	8715	122	228.404859	-106.40486	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/10/2006	27	9445	106	226.677484	-120.67748	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	2/6/2008	29	9898	100	232.903422	-132.90342	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/7/2008	29	10173	119	227.413193	-108.41319	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/19/2009	30	10550	131	231.163755	-100.16376	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	20002882.98	32	11292	103	182.678203	-79.678203	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/14/2012	33	11641	117	222.171527	-105.17153	-233	-235	433
3461902	6347207.667	20002882.98	75	78	1340127	477023	6	11/13/2013	34	12005	106	235.279376	-129.27938	-233	-235	433
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	3/18/1981	2	77	383.35	332.629619	50.720381	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/21/1981	2	325	381.66	332.183384	49.476616	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	3/18/1982	3	442	381.53	331.912172	49.617828	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/9/1982	3	678	382.27	331.559175	50.710825	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/8/1983	4	1042	381.87	331.895598	49.974402	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/15/1984	5	1415	381.68	334.673165	47.006835	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/10/1985	6	1775	380.88	333.189387	47.690613	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	12/14/1986	7	2174	383.15	328.583032	54.566968	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/13/1987	8	2508	380.24	329.258602	50.981398	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	12/6/1988	9	2897	381.77	334.67479	47.09521	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	10/19/1989	10	3214	381.95	336.431674	45.518326	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/16/1990	11	3607	391.83	335.060582	56.769418	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	12/12/1991	12	3998	391.35	333.910207	57.439793	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/20/1992	13	4342	383.2	336.81319	46.38681	274	274	397

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	12/12/1993	14	4729	381.8	332.827513	48.972487	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	2/3/1995	16	5147	387.1	331.02778	56.07222	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/9/1995	16	5426	382.98	334.135065	48.844935	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/14/1996	17	5797	381.2	330.525064	50.674936	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/14/1997	18	6162	382.92	333.310128	49.609872	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/19/1998	19	6532	389.95	333.019261	56.930739	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/19/1999	20	6897	382.25	335.862189	46.387811	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/8/2000	21	7252	382.3	334.882631	47.417369	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/8/2001	22	7617	389.35	333.54907	55.80093	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/7/2002	23	7981	383.4	332.890358	50.509642	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	9/24/2003	24	8302	382.65	334.223282	48.426718	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/10/2004	25	8715	383.05	333.568879	49.481121	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	1/12/2006	27	9143	382.44	333.153375	49.286625	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/10/2006	27	9445	381.05	331.460105	49.589895	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	2/6/2008	29	9898	383.7	330.67874	53.02126	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/7/2008	29	10173	384.3	330.324826	53.975174	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/19/2009	30	10550	389.61	328.840969	60.769031	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/18/2010	31	10914	382.4	328.497603	53.902397	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	12/1/2011	32	11292	380.19	326.642108	53.547892	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/14/2012	33	11641	381.23	327.614525	53.615475	274	274	397
3461905	6344898.251	19999705.67	76	77	1121459	412823	4	11/13/2013	34	12005	383.17	331.273245	51.896755	274	274	397
3461906	6339090.966	20002069.27	75	77	1340126	477022	6	8/29/1985	6	1702	212	228.060997	-16.060997	-518	-533	452
3462203	6364239.693	20033628.79	72	84	1434129	514818	7	10/20/1981	2	293	169	237.028448	-68.028448	-243	-245	520
3462203	6364239.693	20033628.79	72	84	1434129	514818	7	3/11/1987	8	2261	180.35	219.47877	-39.12877	-243	-245	520
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	3/18/1981	2	77	610.67	389.097174	221.57283		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/21/1981	2	325	606.75	388.26615	218.48385		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	3/18/1982	3	442	608.53	387.849949	220.68005		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/3/1982	3	672	609.16	387.253044	221.90696		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/8/1983	4	1042	604.76	387.748947	217.01105		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/15/1984	5	1415	612.88	391.997425	220.88258		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/14/1986	7	2144	608.3	382.496328	225.80367		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/13/1987	8	2508	606.83	383.229521	223.60048		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	12/7/1988	9	2898	609	391.478482	217.52152		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	10/19/1989	10	3214	605.55	393.827133	211.72287		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/16/1990	11	3607	614.68	391.414696	223.2653		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	12/13/1991	12	3999	615.39	389.781567	225.60843		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/20/1992	13	4342	607.68	394.535766	213.14423		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	2/3/1995	16	5147	615.4	385.219318	230.18068		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/9/1995	16	5426	605.2	390.433775	214.76623		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/14/1996	17	5797	608.6	385.085133	223.51487		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/14/1997	18	6162	607.42	389.52988	217.89012		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/18/1998	19	6531	606.3	389.74368	216.55632		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/19/1999	20	6897	603.5	394.656176	208.84382		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/8/2000	21	7252	610.15	392.65038	217.49962		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/8/2001	22	7617	607.5	390.069606	217.43039		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/8/2002	23	7982	612.7	389.317502	223.3825		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	9/23/2003	24	8301	605.14	391.02741	214.11259		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/10/2004	25	8715	605.25	390.60264	214.64736		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	1/12/2006	27	9143	601.74	390.703372	211.03663		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/10/2006	27	9445	605.56	388.469513	217.09049		590	620

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	2/6/2008	29	9898	609.7	387.294554	222.40545		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/7/2008	29	10173	607.85	386.932397	220.9176		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/21/2009	30	10552	615.24	384.552415	230.68759		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/18/2010	31	10914	602.85	384.280027	218.56997		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	12/3/2011	32	11294	607.79	381.960669	225.82933		590	620
3462305	6378285.642	20032603.12	73	86	1118324	412103	4	11/14/2012	33	11641	606.76	383.575802	223.1842		590	620
3462704	6357520.553	19989054.14	79	78	1124559	413250	4	2/15/1989	10	2968	399.5	384.266856	15.233144	215	210	550
3462705	6361413.866	20000771.96	77	80	1341767	477494	6	4/21/1983	4	841	245	241.559178	3.440822	-170	-170	630
3462706	6360003.782	19993415.48	78	79	1342558	477714	6	2/6/1998	19	6246	153	187.290253	-34.290253	-143	-148	688
3463106	6394763.069	20021045.38	77	87	1341774	477501	6	6/7/1988	9	2715	290	246.198831	43.801169	170	170	410
3463106	6394763.069	20021045.38	77	87	1341774	477501	6	2/15/1989	10	2968	259.9	238.511194	21.388806	170	170	410
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/21/1981	2	325	394.41	361.813045	32.596955	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	3/18/1982	3	442	393.3	361.470956	31.829044	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/2/1982	3	671	394.28	361.104129	33.175871	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/9/1983	4	1043	395.75	361.476179	34.273821	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/15/1984	5	1415	395.5	364.806564	30.693436	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/14/1986	7	2144	394.15	358.122339	36.027661	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/13/1987	8	2508	394.5	358.76656	35.73344	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	12/8/1988	9	2899	393.69	364.41202	29.27798	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	10/19/1989	10	3214	394.2	365.761607	28.438393	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/16/1990	11	3607	397.28	364.037474	33.242526	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	12/13/1991	12	3999	398.71	362.924771	35.785229	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/20/1992	13	4342	397	366.442457	30.557543	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	12/12/1993	14	4729	396.9	361.436878	35.463122	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	2/3/1995	16	5147	400.5	359.835996	40.664004	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/9/1995	16	5426	397.11	363.676256	33.433744	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/14/1996	17	5797	393.2	359.350498	33.849502	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/13/1997	18	6161	394.77	362.846925	31.923075	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/18/1998	19	6531	394.35	362.674227	31.675773	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/18/1999	20	6896	394.4	366.331957	28.068043	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/9/2000	21	7253	392.58	364.760671	27.819329	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/8/2001	22	7617	397.4	362.909725	34.490275	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	4/10/2002	23	7770	393.62	362.581798	31.038202	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/8/2002	23	7982	394.73	362.38566	32.34434	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	9/23/2003	24	8301	393.57	363.901202	29.668798	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/10/2004	25	8715	397.35	363.326882	34.023118	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	1/12/2006	27	9143	392.6	363.446022	29.153978	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/10/2006	27	9445	390.5	361.46791	29.03209	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	2/6/2008	29	9898	393.25	360.767753	32.482247	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/7/2008	29	10173	393.64	360.517908	33.122092	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/21/2009	30	10552	392.77	359.148606	33.621394	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/18/2010	31	10914	393.65	359.070894	34.579106	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	12/4/2011	32	11295	385.93	357.830391	28.099609	363	363	418
3463204	6406005.19	20022211.08	78	89	1123512	413124	4	11/14/2012	33	11641	390.6	358.757466	31.842534	363	363	418
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/2/1982	3	671	279.5	265.536337	13.963663	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/9/1983	4	1043	279.64	268.889556	10.750444	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/15/1984	5	1415	278.52	264.385979	14.134021	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/10/1985	6	1775	276.57	262.079223	14.490777	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/15/1986	7	2145	275	254.72393	20.27607	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/13/1987	8	2508	272.35	252.61357	19.73643	-1	-1	379

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	12/9/1988	9	2900	270.05	249.247822	20.802178	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	10/19/1989	10	3214	269.52	259.096737	10.423263	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/16/1990	11	3607	267.77	263.548151	4.221849	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	12/12/1993	14	4729	264.08	259.954814	4.125186	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/9/1995	16	5426	260.25	256.672047	3.577953	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/14/1996	17	5797	258.3	254.389045	3.910955	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/13/1997	18	6161	256.38	253.905225	2.474775	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/18/1998	19	6531	255.61	251.717266	3.892734	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/18/1999	20	6896	252.95	258.542085	-5.592085	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/9/2000	21	7253	251.65	259.574234	-7.924234	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/8/2001	22	7617	250.6	256.220514	-5.620514	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/8/2002	23	7982	249.35	259.116317	-9.766317	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	9/23/2003	24	8301	248.53	255.582957	-7.052957	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/10/2004	25	8715	246.65	250.672302	-4.022302	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	1/12/2006	27	9143	245.68	254.531116	-8.851116	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/10/2006	27	9445	244.75	247.492379	-2.742379	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	2/6/2008	29	9898	243.25	251.06561	-7.81561	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/7/2008	29	10173	243.5	246.855166	-3.355166	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/21/2009	30	10552	240.71	248.183057	-7.473057	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	11/18/2010	31	10914	242.2	245.321669	-3.121669	-1	-1	379
3463501	6410368.058	20013004.8	80	89	1439387	518531	7	12/4/2011	32	11295	240.09	236.384238	3.705762	-1	-1	379
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/2/1982	3	671	267.48	264.607613	2.872387	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/9/1983	4	1043	267.88	264.705774	3.174226	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/10/1985	6	1775	267.03	261.114372	5.915628	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/13/1987	8	2508	262.5	251.599876	10.900124	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	12/9/1988	9	2900	262.35	248.220864	14.129136	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	10/19/1989	10	3214	260.85	258.096227	2.753773	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/16/1990	11	3607	261.17	262.554041	-1.384041	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	12/12/1993	14	4729	258.23	258.915474	-0.685474	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/9/1995	16	5426	254.28	255.605195	-1.325195	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/14/1996	17	5797	254	253.353603	0.646397	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/13/1997	18	6161	253.15	252.866138	0.283862	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/18/1998	19	6531	250.71	250.620205	0.089795	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/18/1999	20	6896	248.95	257.462013	-8.512013	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/9/2000	21	7253	249.72	258.482491	-8.762491	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/8/2001	22	7617	248.65	255.134012	-6.484012	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/8/2002	23	7982	248.55	258.050108	-9.500108	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	9/23/2003	24	8301	248	254.479108	-6.479108	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/10/2004	25	8715	249.96	249.50875	0.45125	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	1/12/2006	27	9143	246.93	253.446086	-6.516086	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/10/2006	27	9445	245.17	246.336428	-1.166428	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	2/6/2008	29	9898	244.8	249.986935	-5.186935	207	207	360
3463503	6410411.078	20013006.93	80	89	1344273	478200	6	11/7/2008	29	10173	244.4	245.759718	-1.359718	207	207	360
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	6/11/1982	3	527	393.19	351.790909	41.399091	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/2/1982	3	671	388	351.619295	36.380705	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/9/1983	4	1043	389.51	351.978269	37.531731	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/15/1984	5	1415	391.37	355.451384	35.918616	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/10/1985	6	1775	387.67	353.023186	34.646814	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/14/1986	7	2144	388.7	348.94605	39.75395	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/13/1987	8	2508	387.09	349.559738	37.530262	354	354	405

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	12/9/1988	9	2900	386.17	355.01922	31.15078	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	10/19/1989	10	3214	388.94	356.595912	32.344088	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/16/1990	11	3607	393.66	354.459084	39.200916	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	12/13/1991	12	3999	393.35	353.340059	40.009941	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/20/1992	13	4342	388.05	357.475119	30.574881	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	12/12/1993	14	4729	389.8	351.93447	37.86553	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/9/1995	16	5426	388.87	354.145761	34.724239	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/14/1996	17	5797	385.7	349.993262	35.706738	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/13/1997	18	6161	389.02	353.272136	35.747864	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/18/1998	19	6531	392.02	353.079069	38.940931	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/18/1999	20	6896	388.8	357.313338	31.486662	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/9/2000	21	7253	387.25	355.340458	31.909542	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/8/2001	22	7617	394.3	353.296004	41.003996	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	4/11/2002	23	7771	394.63	352.995067	41.634933	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/8/2002	23	7982	392.1	352.817303	39.282697	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	9/23/2003	24	8301	390.5	354.319617	36.180383	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/10/2004	25	8715	390	353.70347	36.29653	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	1/12/2006	27	9143	384.42	353.824577	30.595423	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/10/2006	27	9445	386.95	351.958361	34.991639	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	2/6/2008	29	9898	391.2	351.297858	39.902142	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/7/2008	29	10173	390.35	351.080785	39.269215	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/21/2009	30	10552	394.97	349.778235	45.191765	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/18/2010	31	10914	387.85	349.745567	38.104433	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	12/4/2011	32	11295	386.39	348.693504	37.696496	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/14/2012	33	11641	385.76	349.497788	36.262212	354	354	405
3463504	6408377.666	20013901.37	79	89	1124573	413264	4	11/14/2013	34	12006	384.83	352.632621	32.197379	354	354	405
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	3/18/1981	2	77	362.8	316.499294	46.300706	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/14/1981	2	318	361.23	329.050195	32.179805	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	3/18/1982	3	442	360.6	314.567181	46.032819	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/2/1982	3	671	360.04	313.591255	46.448745	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/9/1983	4	1043	363.15	313.354059	49.795941	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/16/1984	5	1416	362.24	316.588865	45.651135	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/15/1986	7	2145	363	305.829459	57.170541	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/13/1987	8	2508	363.29	305.262019	58.027981	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	12/8/1988	9	2899	363.25	311.19606	52.05394	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	10/19/1989	10	3214	365.5	313.756333	51.743667	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	12/12/1991	12	3998	368.7	314.674931	54.025069	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/20/1992	13	4342	367.65	319.44912	48.20088	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	12/12/1993	14	4729	367.17	313.304971	53.865029	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	2/3/1995	16	5147	371.1	309.089521	62.010479	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/9/1995	16	5426	366.32	313.237131	53.082869	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/14/1996	17	5797	362.7	306.867451	55.832549	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/13/1997	18	6161	368.32	311.035487	57.284513	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/18/1998	19	6531	362.57	310.712642	51.857358	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/18/1999	20	6896	364.75	315.73496	49.01504	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/9/2000	21	7253	362.28	315.513258	46.766742	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/8/2001	22	7617	365.75	313.666261	52.083739	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/8/2002	23	7982	363.85	312.710232	51.139768	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	9/23/2003	24	8301	363.75	313.943037	49.806963	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	1/12/2006	27	9143	362.51	312.985954	49.524046	319	313	416

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/7/2008	29	10173	360.9	308.492199	52.407801	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/21/2009	30	10552	359.79	305.971782	53.818218	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/29/2011	32	11290	358.19	299.890917	58.299083	319	313	416
3464302	6459430.986	20031142.41	81	99	1345146	478422	6	11/13/2013	34	12005	356.42	308.225041	48.194959	319	313	416
3464402	6433140.46	20018058.7	81	94	1440142	519002	7	11/14/1981	2	318	257.2	281.663703	-24.463703	7	7	432
3464402	6433140.46	20018058.7	81	94	1440142	519002	7	11/2/1982	3	671	252	280.325252	-28.325252	7	7	432
3464402	6433140.46	20018058.7	81	94	1440142	519002	7	11/9/1983	4	1043	253.54	271.601418	-18.061418	7	7	432
3464402	6433140.46	20018058.7	81	94	1440142	519002	7	11/10/1985	6	1775	242.96	267.735926	-24.775926	7	7	432
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	11/13/1987	8	2508	229	227.986006	1.013994	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	4/20/1988	9	2667	230	221.360564	8.639436	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	12/5/1990	11	3626	223.7	233.7438	-10.0438	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	12/12/1991	12	3998	228.77	240.107161	-11.337161	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	3/24/1993	14	4466	225.85	241.141422	-15.291422	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	2/3/1995	16	5147	236.3	234.803184	1.496816	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	11/9/1995	16	5426	222.61	233.116479	-10.506479	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	11/14/1996	17	5797	222.6	232.868983	-10.268983	-408	-409	423
3464403	6433227.371	20010257.9	82	93	1521750	564707	8	11/13/1997	18	6161	222.65	233.920929	-11.270929	-408	-409	423
3464507	6452050.091	20016163.82	83	97	1441603	519802	7	4/14/2004	25	8505	239	267.284383	-28.284383	-44	-44	381
3464708	6435498.235	19995863.48	85	92	1348532	479118	6	7/9/1985	6	1651	305	287.750172	17.249828	179	169	395
3464711	6435692.459	19995365.22	85	92	1348532	479118	6	5/26/1988	9	2703	325	282.06324	42.93676	185	185	400
3464712	6435692.459	19995365.22	85	92	1348532	479118	6	5/14/1988	9	2691	327	282.64384	44.35616	187	187	402
3464713	6439013.069	19994194.71	85	92	1348532	479118	6	5/17/1985	6	1598	332	272.479698	59.520302	222	212	412
3464713	6439013.069	19994194.71	85	92	1348532	479118	6	2/16/1989	10	2969	318.26	266.919975	51.340025	222	212	412
3464714	6436515.897	19998138.15	84	92	1347644	478907	6	7/2/1985	6	1644	325	288.444824	36.555176	165	155	355
3464714	6436515.897	19998138.15	84	92	1347644	478907	6	2/16/1989	10	2969	325.18	284.168988	41.011012	165	155	355
3464805	6449436.508	19995773.63	86	94	1349470	479374	6	5/16/1985	6	1597	335	281.157728	53.842272	240	220	400
3464805	6449436.508	19995773.63	86	94	1349470	479374	6	3/17/1988	9	2633	337.94	276.35807	61.58193	240	220	400
3501102	6461352.201	20355834.12	27	129	1412355	501601	7	10/26/1982	3	664	210.43	283.207724	-72.777724		130	385
3501102	6461352.201	20355834.12	27	129	1412355	501601	7	11/12/1983	4	1046	209.74	282.853387	-73.113387		130	385
3501102	6461352.201	20355834.12	27	129	1412355	501601	7	11/7/1984	5	1407	205.31	281.656356	-76.346356		130	385
3501102	6461352.201	20355834.12	27	129	1412355	501601	7	12/10/1986	7	2170	207.26	277.512506	-70.252506		130	385
3501115	6451856.311	20351248.04	27	127	1501546	551888	8	10/8/1992	13	4299	174	223.58359	-49.58359	-212	-233	426
3501116	6465884.115	20344182.7	30	129	1414317	503158	7	11/19/1981	2	323	217	265.270845	-48.270845	-98	-99	387
3501121	6460433.892	20353562.72	28	129	1501842	552113	8	9/14/1982	3	622	122	191.911823	-69.911823	-190	-200	380
3501502	6467000.614	20342105.41	30	129	1414317	503158	7	5/14/1992	13	4152	175	229.999455	-54.999455	-135	-139	395
3501705	6465118.159	20321749.05	33	127	1503490	553174	8	12/9/1988	9	2900	230	253.245845	-23.245845	-398	-431	370
3501705	6465118.159	20321749.05	33	127	1503490	553174	8	4/12/1989	10	3024	231.9	260.873229	-28.973229	-398	-431	370
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	3/18/1981	2	77	256.44	285.312894	-28.872894		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	10/26/1982	3	664	255.62	283.418142	-27.798142		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/7/1984	5	1407	243.92	284.234786	-40.314786		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	12/7/1985	6	1802	239.71	283.412462	-43.702462		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/20/1986	7	2150	239.02	279.806759	-40.786759		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	2/9/1988	9	2596	226.6	280.456515	-53.856515		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	10/12/1988	9	2842	221	283.683703	-62.683703		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	10/11/1989	10	3206	218.95	278.151432	-59.201432		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/11/1990	11	3602	214.78	277.336998	-62.556998		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/13/1991	12	3969	213.63	276.03862	-62.40862		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/4/1992	13	4326	209.52	286.495538	-76.975538		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/9/1994	15	5061	211.26	280.718567	-69.458567		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/8/1995	16	5425	204.18	284.46188	-80.28188		-52	388

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/7/1996	17	5790	207	281.307314	-74.307314		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/5/1997	18	6153	206.97	283.577498	-76.607498		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/19/1998	19	6532	206.25	283.180613	-76.930613		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/19/1999	20	6897	204.3	286.423659	-82.123659		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/16/2000	21	7260	204.73	286.004523	-81.274523		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/14/2001	22	7623	204.65	286.715316	-82.065316		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/20/2002	23	7994	198.22	286.049989	-87.829989		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/5/2003	24	8344	205.75	286.777458	-81.027458		-52	388
3501803	6471000.737	20323538.05	34	128	1416401	504766	7	11/13/2008	29	10179	188.19	281.98972	-93.79972		-52	388
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/11/1981	2	315	374.02	335.424528	38.595472		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/18/1982	3	687	373.28	334.229458	39.050542		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/16/1983	4	1050	373.3	334.747766	38.552234		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/7/1984	5	1407	372.51	338.675737	33.834263		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/20/1986	7	2150	372.53	328.871223	43.658777		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	2/11/1988	9	2598	377.75	331.219753	46.530247		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	10/18/1988	9	2848	373.96	338.075546	35.884454		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	10/19/1989	10	3214	375.83	340.092758	35.737242		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/13/1990	11	3604	378.51	337.764134	40.745866		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/14/1991	12	3970	375.3	336.237733	39.062267		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	12/9/1992	13	4361	375.9	340.318174	35.581826		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	12/14/1993	14	4731	376.12	334.821449	41.298551		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/11/1994	15	5063	375.75	330.738493	45.011507		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/15/1995	16	5432	373.95	337.187749	36.762251		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/20/1996	17	5803	373.25	331.09109	42.15891		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/7/1997	18	6155	374.97	335.917578	39.052422		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	12/19/1998	19	6562	376.7	336.00748	40.69252		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/19/1999	20	6897	374.5	339.744434	34.755566		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/17/2000	21	7261	373.4	338.720692	34.679308		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/14/2001	22	7623	376.2	337.288947	38.911053		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	6/19/2002	23	7840	378.34	336.788436	41.551564		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/3/2003	24	8342	373.45	338.229373	35.220627		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/5/2004	25	8710	372.85	337.526435	35.323565		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	1/26/2006	27	9157	372.74	336.890071	35.849929		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/9/2006	27	9444	370.55	334.689225	35.860775		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/16/2007	28	9816	374.09	333.457489	40.632511		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/14/2008	29	10180	374.86	332.980289	41.879711		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/19/2009	30	10550	380.11	330.513873	49.596127		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	12/1/2010	31	10927	374.61	330.10555	44.50445		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	10/27/2011	32	11257	373.53	327.368356	46.161644		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/14/2012	33	11641	373.71	328.648955	45.061045		356	392
3501806	6467718.031	20318928.3	34	127	1083394	396472	4	11/15/2013	34	12007	374.35	334.886035	39.463965		356	392
3501807	6471289.435	20319091.43	34	128	1083395	396473	4	5/2/1984	5	1218	310	325.706152	-15.706152	200	190	390
3501902	6488830.186	20321216.42	36	131	1417331	505469	7	3/31/1992	13	4108	209	236.649491	-27.649491	-189	-215	369
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	8/3/1995	16	5328	268.1	261.530265	6.569735	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/8/1995	16	5425	266.25	261.620715	4.629285	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/7/1996	17	5790	264.1	260.373844	3.726156	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/5/1997	18	6153	266.19	261.435387	4.754613	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/19/1998	19	6532	266.54	261.324482	5.215518	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/18/1999	20	6896	265.15	262.075346	3.074654	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/16/2000	21	7260	264.12	261.720071	2.399929	262	234	298

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/16/2001	22	7625	266.95	261.428288	5.521712	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	5/24/2002	23	7814	265.39	261.397075	3.992925	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/20/2002	23	7994	266.23	261.34536	4.88464	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/7/2003	24	8346	264.3	261.656279	2.643721	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/3/2004	25	8708	265.38	261.517511	3.862489	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	1/26/2006	27	9157	263.57	261.414062	2.155938	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/9/2006	27	9444	262.43	261.091383	1.338617	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	12/7/2007	28	9837	264.48	260.937889	3.542111	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/13/2008	29	10179	265.13	260.855305	4.274695	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/6/2009	30	10537	267.48	260.372708	7.107292	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/20/2010	31	10916	266.65	260.39935	6.25065	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/18/2011	32	11279	266.56	259.89274	6.66726	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/15/2012	33	11642	262.59	260.290324	2.299676	262	234	298
3502503	6508899.27	20332996.08	36	135	1085311	397360	4	11/14/2013	34	12006	263.05	261.37735	1.67265	262	234	298
3502504	6509220.187	20333416.66	36	135	1504314	553712	8	10/20/1982	3	658	247	248.755879	-1.755879	-533	-533	281
3502505	6511638.589	20330894.55	36	135	1504314	553712	8	9/21/1995	16	5377	220	235.386826	-15.386826	-438	-454	273
3503107	6534247.605	20353452.25	35	141	1504035	553538	8	11/9/1989	10	3235	285	248.200914	36.799086	-544	-570	390
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	11/5/1982	3	674	213.68	231.387123	-17.707123	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	11/11/1983	4	1045	212.79	233.590711	-20.800711	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	11/7/1984	5	1407	219.73	235.037837	-15.307837	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	12/10/1986	7	2170	216.28	233.78466	-17.50466	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	2/10/1988	9	2597	213.28	235.395961	-22.115961	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	10/13/1988	9	2843	248.7	238.54812	10.15188	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	10/14/1989	10	3209	246.98	179.274914	67.705086	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	11/10/1990	11	3601	246.28	187.327541	58.952459	-74	-76	320
3503403	6540538.991	20332263.99	39	140	1321262	470460	6	11/12/1991	12	3968	246.2	187.295493	58.904507	-74	-76	320
3503704	6533359.187	20329185.07	38	139	1087168	398213	4	8/14/1991	12	3878	228.3	231.403863	-3.103863	212	206	232
3503704	6533359.187	20329185.07	38	139	1087168	398213	4	8/23/1991	12	3887	229.17	231.403392	-2.233392	212	206	232
3503704	6533359.187	20329185.07	38	139	1087168	398213	4	11/13/1991	12	3969	229.56	231.399794	-1.839794	212	206	232
3503704	6533359.187	20329185.07	38	139	1087168	398213	4	2/4/1992	13	4052	230.76	231.518908	-0.758908	212	206	232
3503704	6533359.187	20329185.07	38	139	1087168	398213	4	5/19/1992	13	4157	230.21	231.640856	-1.430856	212	206	232
3503704	6533359.187	20329185.07	38	139	1087168	398213	4	8/4/1992	13	4234	231.95	231.671771	0.278229	212	206	232
3503704	6533359.187	20329185.07	38	139	1087168	398213	4	11/10/1992	13	4332	229.31	231.697126	-2.387126	212	206	232
3505101	6607849.008	20364744.48	39	154	1321276	470474	6	4/17/1998	19	6316	179.7	209.099035	-29.399035		145	225
3505503	6622492.557	20344391.98	44	155	1323119	471281	6	8/19/1999	20	6805	233	224.493004	8.506996	-19	-19	411
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/5/1982	3	674	218.82	247.914032	-29.094032		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/10/1983	4	1044	218.16	247.935175	-29.775175		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	12/5/1985	6	1800	225.12	247.939252	-22.819252		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/14/1986	7	2144	221.35	247.649417	-26.299417		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	2/4/1988	9	2591	225.51	247.983362	-22.473362		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	10/14/1988	9	2844	217.5	248.05982	-30.55982		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	10/14/1989	10	3209	222.9	248.058377	-25.158377		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/8/1990	11	3599	224.9	247.973054	-23.073054		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/9/1991	12	3965	225.37	247.950855	-22.580855		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/11/1992	13	4333	222.5	248.08767	-25.58767		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	12/11/1993	14	4728	220.75	247.905689	-27.155689		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/16/1994	15	5068	221.33	247.858702	-26.528702		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/10/1995	16	5427	219.25	248.035877	-28.785877		194	275
3506302	6680066.13	20364366.15	46	166	1093672	402259	4	11/9/1996	17	5792	223.46	247.850301	-24.390301		194	275
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/4/1982	3	673	334	319.623293	14.376707		288	375

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/10/1983	4	1044	341.81	319.920386	21.889614		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/9/1984	5	1409	353.7	322.184674	31.515326		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/14/1986	7	2144	348.83	316.626075	32.203925		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	2/4/1988	9	2591	364.56	317.602932	46.957068		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	10/14/1988	9	2844	322.6	321.667737	0.932263		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	10/13/1989	10	3208	331.44	322.803001	8.636999		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/8/1990	11	3599	342.89	321.502339	21.387661		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/9/1991	12	3965	352.85	320.877316	31.972684		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/11/1992	13	4333	344.15	323.193827	20.956173		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	8/10/1993	14	4605	354.31	320.69868	33.61132		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	12/11/1993	14	4728	357.26	320.198029	37.061971		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/16/1994	15	5068	363.33	318.12869	45.20131		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/11/1995	16	5428	332.74	321.785683	10.954317		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/8/1996	17	5791	348.48	318.55687	29.92313		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/19/1997	18	6167	338.6	321.391816	17.208184		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/10/1998	19	6523	357.34	321.387026	35.952974		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/20/1999	20	6898	343.9	323.443401	20.456599		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/7/2000	21	7251	344.8	322.267766	22.532234		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/28/2001	22	7637	357.3	321.222858	36.077142		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	10/16/2002	23	7959	344.81	321.074311	23.735689		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/14/2003	24	8353	340.55	321.980004	18.569996		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/10/2004	25	8715	346.88	321.652638	25.227362		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	1/19/2006	27	9150	339.91	321.677691	18.232309		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/8/2006	27	9443	339.71	320.753987	18.956013		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	12/5/2007	28	9835	350.63	320.286359	30.343641		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/15/2008	29	10181	348.5	320.044443	28.455557		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/4/2009	30	10535	368.06	318.486303	49.573697		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	12/1/2010	31	10927	348.05	318.095538	29.954462		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/17/2011	32	11278	344.36	316.702711	27.657289		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/15/2012	33	11642	339.23	317.528719	21.701281		288	375
3506401	6644919.115	20348973.06	45	159	1092795	401642	4	11/14/2013	34	12006	345.95	321.082622	24.867378		288	375
3507303	6712598.601	20369114.63	48	172	1324747	471988	6	3/16/2001	22	7380	177	185.399074	-8.399074	-100	-100	340
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	3/19/1981	2	78	307.11	291.823765	15.286235		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/5/1982	3	674	308.37	285.044089	23.325911		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/10/1983	4	1044	308.28	285.164449	23.115551		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/9/1984	5	1409	316.26	285.856561	30.403439		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	12/5/1985	6	1800	314.71	285.317455	29.392545		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/14/1986	7	2144	315.58	284.229933	31.350067		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	2/4/1988	9	2591	316.02	284.927365	31.092635		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	10/14/1988	9	2844	307.94	285.896557	22.043443		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/8/1990	11	3599	308.62	285.603007	23.016993		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/9/1991	12	3965	309.05	285.359901	23.690099		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/11/1992	13	4333	310.33	286.223806	24.106194		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	12/15/1993	14	4732	314.02	285.113464	28.906536		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/16/1994	15	5068	317.78	284.641423	33.138577		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/10/1995	16	5427	308.4	285.761456	22.638544		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/8/1996	17	5791	314.32	284.718529	29.601471		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	4/10/1998	19	6309	316.3	285.549053	30.750947		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	10/18/2002	23	7961	309.02	285.358301	23.661699		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/14/2003	24	8353	306.71	285.703198	21.006802		268	324

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/10/2004	25	8715	311.85	285.579635	26.270365		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	1/19/2006	27	9150	307.83	285.577843	22.252157		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/8/2006	27	9443	306.82	285.252215	21.567785		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	12/5/2007	28	9835	309.36	285.139933	24.220067		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/15/2008	29	10181	310.5	285.113018	25.386982		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/4/2009	30	10535	320.85	284.753601	36.096399		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	12/1/2010	31	10927	309.54	284.78309	24.75691		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/16/2011	32	11277	306.52	284.451054	22.068946		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/15/2012	33	11642	306.79	284.801085	21.988915		268	324
3507402	6685234.033	20346893.23	49	166	1096285	403820	4	11/14/2013	34	12006	312.95	285.610174	27.339826		268	324
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	3/19/1981	2	78	118.9	192.323533	-73.423533		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/5/1982	3	674	119.02	190.138668	-71.118668		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/10/1983	4	1044	120.93	190.130293	-69.200293		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/9/1984	5	1409	126.54	191.259267	-64.719267		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	12/5/1985	6	1800	130.07	190.40586	-60.33586		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/14/1986	7	2144	129.25	188.78217	-59.537217		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	10/14/1988	9	2844	128.98	192.015092	-63.035092		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	10/14/1989	10	3209	132.03	190.241437	-58.211437		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/8/1990	11	3599	135.23	188.500731	-53.270731		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/11/1992	13	4333	137.35	196.379245	-59.029245		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	12/15/1993	14	4732	142.04	195.023813	-52.983813		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/16/1994	15	5068	144.22	194.090525	-49.870525		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/10/1995	16	5427	150.52	196.447477	-45.927477		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/9/1996	17	5792	149.8	193.820834	-44.020834		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/19/1997	18	6167	157.48	193.680628	-36.200628		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/10/1999	19	6523	157.45	191.459221	-34.009221		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/20/1999	20	6898	157	198.272076	-41.272076		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/8/2000	21	7252	163.93	195.952855	-32.022855		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/15/2002	23	7989	166.65	195.662078	-29.012078		-465	250
3507801	6700909.68	20338791.78	52	167	1509491	556932	8	11/14/2003	24	8353	166.61	194.909229	-28.299229		-465	250
3507808	6695651.339	20338313.26	52	166	1509490	556931	8	2/3/1988	9	2590	111	150.805002	-39.805002		-512	252
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	3/19/1981	2	78	139.82	193.482351	-53.662351		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/5/1982	3	674	136.96	191.687888	-54.727888		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/10/1983	4	1044	137.36	191.818922	-54.458922		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/9/1984	5	1409	136.35	193.037257	-56.687257		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	12/5/1985	6	1800	145.61	192.000234	-46.390234		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/14/1986	7	2144	171.34	190.014116	-18.674116		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	2/4/1988	9	2591	156.9	191.561165	-34.661165		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	10/14/1988	9	2844	177.17	193.823846	-16.653846		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	10/14/1989	10	3209	180.57	192.590107	-12.020107		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/8/1990	11	3599	179.79	190.872775	-11.082775		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/9/1991	12	3965	180.69	191.497726	-10.807726		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/11/1992	13	4333	183.64	197.081965	-13.441965		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	12/15/1993	14	4732	186.01	194.925454	-8.915454		-100	200
3507902	6715927.232	20335224.84	54	170	1424750	509724	7	11/9/1996	17	5792	184.5	193.322145	-8.822145		-100	200
3508506	6733823.989	20351183.94	53	174	1099935	405857	4	8/8/1982	3	585	260	269.837703	-9.837703	120	117	320
3508512	6732528.276	20351520.1	53	174	1327044	472769	6	10/1/1981	2	274	178	183.214586	-5.214586	-14	-26	288
3509202	6468568.576	20305892.55	36	126	1319544	469968	6	3/18/1981	2	77	246.16	288.31818	-42.15818		23	390
3509202	6468568.576	20305892.55	36	126	1319544	469968	6	11/11/1981	2	315	256.26	287.42133	-31.16133		23	390
3509202	6468568.576	20305892.55	36	126	1319544	469968	6	11/18/1982	3	687	252.59	286.444112	-33.854112		23	390

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3509202	6468568.576	20305892.55	36	126	1319544	469968	6	11/16/1983	4	1050	251.33	286.754814	-35.424814		23	390
3509202	6468568.576	20305892.55	36	126	1319544	469968	6	11/20/1986	7	2150	252.18	283.515466	-31.335466		23	390
3509202	6468568.576	20305892.55	36	126	1319544	469968	6	10/18/1988	9	2848	207.05	262.886948	-55.836948		23	390
3509202	6468568.576	20305892.55	36	126	1319544	469968	6	11/13/1990	11	3604	235.66	283.167865	-47.507865		23	390
3509302	6478935.56	20310320.15	37	128	1504598	553893	8	7/11/1992	13	4210	223	246.002123	-23.002123	-437	-448	418
3509303	6487748.516	20311436.08	37	130	1086205	397717	4	5/20/1998	19	6349	395.4	338.295767	57.104233		357	412
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/11/1981	2	315	224.21	284.551617	-60.341617	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/18/1982	3	687	222.76	283.604859	-60.844859	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/16/1983	4	1050	220.76	283.9072	-63.1472	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/8/1984	5	1408	219.34	284.598506	-65.258506	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	12/6/1985	6	1801	214.66	284.026072	-69.366072	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/20/1986	7	2150	215.13	281.230203	-66.100203	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	2/11/1988	9	2598	212.83	281.665439	-68.835439	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	10/18/1988	9	2848	209.2	283.467078	-74.267078	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	10/19/1989	10	3214	205.08	282.799075	-77.719075	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/13/1990	11	3604	208.1	282.717734	-74.617734	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/14/1991	12	3970	206.25	282.140441	-75.890441	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	12/9/1992	13	4361	200	286.205599	-86.205599	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	12/14/1993	14	4731	197.6	283.140655	-85.540655	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/11/1994	15	5063	192.02	280.646912	-88.626912	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/15/1995	16	5432	189.87	284.224296	-94.354296	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/20/1996	17	5803	189.65	281.660352	-92.010352	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/7/1997	18	6155	187.71	283.415133	-95.705133	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	12/19/1998	19	6562	183.95	282.158219	-98.208219	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/19/1999	20	6897	182.4	284.653662	-102.253662	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/17/2000	21	7261	177.55	283.400722	-105.850722	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/14/2001	22	7623	177.15	284.801553	-107.651553	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/20/2002	23	7994	176.08	283.598551	-107.518551	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/14/2012	33	11641	162.4	276.05906	-113.65906	-210	-210	340
3509403	6465712.457	20288126.57	39	124	1321246	470444	6	11/15/2013	34	12007	174	280.748397	-106.7484	-210	-210	340
3509805	6477902.856	20267804.48	44	124	1323088	471250	6	7/1/1985	6	1643	131	211.545933	-80.545933	-82	-83	331
3509805	6477902.856	20267804.48	44	124	1323088	471250	6	10/22/1987	8	2486	121.04	205.576447	-84.536447	-82	-83	331
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	3/18/1981	2	77	350.66	308.599814	42.060186		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/11/1981	2	315	349.99	307.267563	42.722437		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/18/1982	3	687	348.34	305.264941	43.075059		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/16/1983	4	1050	347.68	305.687419	41.992581		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/7/1984	5	1407	346.79	310.843596	35.946404		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/20/1986	7	2150	346.75	300.186304	46.563696		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	2/11/1988	9	2598	347.8	301.991003	45.808997		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	10/18/1988	9	2848	347.51	309.965107	37.544893		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	10/18/1989	10	3213	348.23	313.403537	34.826463		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/13/1990	11	3604	349.33	309.76063	39.56937		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/14/1991	12	3970	351.31	307.137246	44.172754		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	12/9/1992	13	4361	350.8	313.834159	36.965841		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	12/15/1993	14	4732	350.52	307.606868	42.913132		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/15/1994	15	5067	349.4	302.767694	46.632306		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/15/1995	16	5432	349.3	309.673761	39.626239		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/20/1996	17	5803	347.67	302.259669	45.410331		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/7/1997	18	6155	348.42	307.028264	41.391736		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	12/18/1998	19	6561	347.95	306.012209	41.937791		325	370

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/18/1999	20	6896	347.3	310.922432	36.377568		325	370
3510102	6503652.834	20310350.54	39	132	1088115	398634	4	11/16/2000	21	7260	346.68	310.929112	35.750888		325	370
3510303	6529092.437	20305972.93	42	136	1420111	507397	7	5/22/1987	8	2333	125	185.452239	-60.452239	-332	-350	340
3510401	6498148.628	20291241.47	42	129	1420104	507390	7	9/18/1992	13	4279	340	299.673749	40.326251	-298	-308	480
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/11/1981	2	315	290.57	296.973447	-6.403447	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/18/1982	3	687	288.49	294.904659	-6.414659	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/16/1983	4	1050	288.92	295.346571	-6.426571	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/7/1984	5	1407	289.25	300.40021	-11.15021	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/20/1986	7	2150	290.79	290.011054	0.778946	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	2/11/1988	9	2598	290.61	291.194643	-0.584643	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	10/18/1989	10	3213	290.28	298.64709	-8.36709	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/13/1990	11	3604	290.24	295.277515	-5.037515	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/14/1991	12	3970	290.88	292.470012	-1.590012	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	12/9/1992	13	4361	290.98	303.356476	-12.376476	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	8/4/1993	14	4599	290.98	299.414573	-8.434573	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	12/15/1993	14	4732	291.18	297.512038	-6.332038	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/15/1994	15	5067	291.12	292.40272	-1.28272	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/2/1995	16	5419	291.96	298.578142	-6.618142	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/20/1996	17	5803	290.22	292.462545	-2.242545	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/7/1997	18	6155	289.98	296.65343	-6.67343	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	12/18/1998	19	6561	289.95	297.164739	-7.214739	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/18/1999	20	6896	289.95	302.431532	-12.481532	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/17/2000	21	7261	288.86	302.100579	-13.240579	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/15/2001	22	7624	290.87	300.125694	-9.255694	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/20/2002	23	7994	290.57	298.023847	-7.453847	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/7/2003	24	8346	289.5	300.132192	-10.632192	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/5/2004	25	8710	290.25	298.952545	-8.702545	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	1/26/2006	27	9157	289.02	297.892036	-8.872036	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/10/2006	27	9445	288.83	294.097155	-5.267155	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/16/2007	28	9816	289.23	292.649274	-3.419274	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/14/2008	29	10180	289.69	291.436777	-1.746777	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/19/2009	30	10550	290.63	289.124016	1.505984	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	12/3/2010	31	10929	290.27	287.720065	2.549935	109	109	431
3510501	6517639.297	20299349.82	42	133	1090501	399958	4	11/15/2012	33	11642	288.73	285.166399	3.563601	109	109	431
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	3/18/1981	2	77	370.92	315.852888	55.067112		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/11/1981	2	315	370.25	314.543306	55.706694		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/18/1982	3	687	368.64	312.49101	56.14899		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/16/1983	4	1050	371.55	312.797009	58.752991		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/7/1984	5	1407	371.73	318.187367	53.542633		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/20/1986	7	2150	372.13	307.210422	64.919578		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	2/11/1988	9	2598	374.07	308.572259	65.497741		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	10/18/1988	9	2848	371.59	316.731624	54.858376		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	10/18/1989	10	3213	371.69	321.250643	50.439357		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/13/1990	11	3604	373.19	317.792597	55.397403		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/14/1991	12	3970	372.38	314.856904	57.523096		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	12/9/1992	13	4361	373.75	321.599079	52.150921		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	12/15/1993	14	4732	373.13	315.069254	58.060746		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/15/1994	15	5067	373.36	309.824967	63.535033		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/15/1995	16	5432	372.09	316.68972	55.40028		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/20/1996	17	5803	371.91	309.847323	62.062677		362	390

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/7/1997	18	6155	372.3	314.346713	57.953287		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	12/18/1998	19	6561	373	314.226455	58.773545		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/18/1999	20	6896	371.55	319.612968	51.937032		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/16/2000	21	7260	371.97	319.054197	52.915803		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/19/2000	21	7263	374.29	319.051088	55.238912		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/15/2001	22	7624	372.95	317.050219	55.899781		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/20/2002	23	7994	372.42	314.201954	58.218046		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/7/2003	24	8346	370.76	317.214538	53.545462		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/5/2004	25	8710	372.13	315.991398	56.138602		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	1/26/2006	27	9157	371.22	314.318713	56.901287		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/10/2006	27	9445	370.39	310.748335	59.641665		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/16/2007	28	9816	371.17	308.689608	62.480392		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/14/2008	29	10180	372.54	307.701945	64.838055		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	12/1/2010	31	10927	372.09	303.804933	68.285067		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/17/2011	32	11278	370.12	300.058914	70.061086		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/15/2012	33	11642	370.39	301.338713	69.051287		362	390
3510502	6507122.38	20287199.74	43	131	1091102	400414	4	11/15/2013	34	12007	371.13	308.985951	62.144049		362	390
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	3/19/1981	2	78	235.29	232.428077	2.861923		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/12/1981	2	316	234.18	231.169466	3.010534		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/16/1982	3	685	236.92	229.980625	6.939375		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/15/1983	4	1049	233.68	231.067825	2.612175		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/9/1984	5	1409	232.08	232.412655	-0.332655		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	12/6/1985	6	1801	234.1	232.864181	1.235819		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/15/1986	7	2145	234.77	230.177923	4.592077		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	2/5/1988	9	2592	236.16	230.593081	5.566919		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	10/16/1988	9	2846	238.78	233.630743	5.149257		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	10/18/1989	10	3213	236.56	205.75392	30.806008		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/14/1990	11	3605	236.91	207.601393	29.308607		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/12/1991	12	3968	237.97	206.989759	30.980241		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/11/1992	13	4333	238.28	234.861242	3.418758		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	12/15/1993	14	4732	237.6	232.756431	4.843569		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/15/1994	15	5067	240.85	230.993059	9.856941		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/15/1995	16	5432	237.25	232.641736	4.608264		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/20/1996	17	5803	233.34	229.747688	3.592312		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/20/1997	18	6168	244.6	231.313705	13.286295		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/10/1998	19	6523	241.15	231.59223	9.55777		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/18/1999	20	6896	234.3	233.707755	0.592245		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/7/2000	21	7251	233.38	236.863886	-3.483886		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/15/2001	22	7624	238.24	236.462326	1.777674		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/20/2002	23	7994	237.89	235.781618	2.108382		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/14/2003	24	8353	236.4	235.271854	1.128146		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/11/2004	25	8716	234.98	232.90342	2.07658		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	1/18/2006	27	9149	241.06	233.123842	7.936158		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/8/2006	27	9443	231.2	229.169322	2.030678		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	12/5/2007	28	9835	230.86	232.022401	-1.162401		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	12/11/2008	29	10207	233.45	229.645191	3.804809		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/6/2009	30	10537	237.01	231.492765	5.517235		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	12/2/2010	31	10928	237.22	228.502458	8.717542		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/17/2011	32	11278	231.92	223.598955	8.321045		170	270
3511202	6549802.301	20309698.53	43	140	1322819	471111	6	11/15/2013	34	12007	229.59	232.29452	-2.70452		170	270

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	3/18/1981	2	77	267.99	236.121896	31.868104	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/11/1981	2	315	267.63	234.899538	32.730462	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/16/1983	4	1050	265.05	234.208424	30.841576	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/7/1984	5	1407	266.1	235.157592	30.942408	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	12/6/1985	6	1801	265.39	235.029421	30.360579	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/20/1986	7	2150	264.99	232.08617	32.90383	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	2/11/1988	9	2598	266.6	231.806204	34.793796	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	10/18/1988	9	2848	265.6	234.489769	31.110231	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	10/18/1989	10	3213	266.41	222.553981	43.856019	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/14/1991	12	3970	266.43	221.579683	44.850317	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	12/9/1992	13	4361	265.47	236.741346	28.728654	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	12/15/1993	14	4732	265.48	233.449191	32.030809	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/15/1994	15	5067	265.44	231.798049	33.641951	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/15/1995	16	5432	264.64	233.716056	30.923944	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/20/1996	17	5803	264.67	230.534734	34.135266	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/7/1997	18	6155	264.68	231.867183	32.812817	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	12/18/1998	19	6561	264.67	231.64614	33.02386	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/18/1999	20	6896	263.85	232.078163	31.771837	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/17/2000	21	7261	264.96	236.002973	28.957027	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/15/2001	22	7624	264.98	236.687161	28.292839	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/20/2002	23	7994	264.42	235.19697	29.22303	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/7/2003	24	8346	263.73	234.84621	28.88379	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/5/2004	25	8710	263.66	231.515434	32.144566	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	1/20/2006	27	9151	262.56	231.825639	30.734361	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/10/2006	27	9445	261.61	227.668498	33.941502	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/16/2007	28	9816	262.78	230.904118	31.875882	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/14/2008	29	10180	263.3	228.326575	34.973425	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/19/2009	30	10550	265.05	230.478789	34.571211	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	12/1/2010	31	10927	263.49	227.164317	36.325683	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/15/2012	33	11642	262.05	225.578083	36.471917	-31	-31	380
3511402	6539016.639	20287388.5	46	136	1421332	508172	7	11/15/2013	34	12007	261.74	231.027788	30.712212	-31	-31	380
3511404	6541441.136	20288416.65	46	136	1323862	471590	6	8/5/1993	14	4600	181.88	207.380357	-25.500357	10	10	298
3511407	6539688.76	20296543.58	44	137	1323101	471263	6	4/14/1989	10	3026	205.85	214.467064	-8.617064	-65	-65	335
3511408	6542966.389	20290415.61	46	137	1507232	555612	8	7/11/1987	8	2383	213	219.596833	-6.596833	-284	-284	280
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	4/12/1991	12	3754	210	224.260219	-14.260219	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	8/17/1995	16	5342	190	232.941157	-42.941157	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/16/1995	16	5433	197	233.54377	-36.54377	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/20/1996	17	5803	177.78	231.466694	-53.686694	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/8/1997	18	6156	170.46	232.207548	-61.747548	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	12/18/1998	19	6561	164.72	231.967732	-67.247732	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/18/1999	20	6896	173.35	233.529946	-60.179946	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/15/2001	22	7624	179.6	236.396338	-56.796338	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/20/2002	23	7994	174.55	235.234183	-60.684183	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/7/2003	24	8346	173.85	234.980319	-61.130319	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/5/2004	25	8710	173.08	232.773267	-59.693267	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	1/21/2006	27	9152	163.31	233.08577	-69.77577	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/10/2006	27	9445	158.12	229.065193	-70.945193	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/16/2007	28	9816	151.33	207.706867	-56.376867	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/15/2008	29	10181	152.18	229.648589	-77.468589	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/20/2009	30	10551	169.29	231.698377	-62.408377	-547	-552	398

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	12/1/2010	31	10927	172.12	228.67337	-56.55337	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/17/2011	32	11278	151.74	202.073437	-50.333437	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/15/2012	33	11642	161.3	226.667315	-65.367315	-547	-552	398
3511702	6536628.502	20276631.23	47	134	1575926	606098	9	11/15/2013	34	12007	160.12	231.586209	-71.466209	-547	-552	398
3511904	6559709.9	20281083.52	49	139	1508368	556331	8	1/1/1981	2	1	198	228.880787	-30.880787	-532	-537	348
3511904	6559709.9	20281083.52	49	139	1508368	556331	8	10/24/1987	8	2488	209.79	223.205497	-13.415497	-532	-537	348
3512403	6573397.889	20297865.19	47	143	1094378	402715	4	5/14/1998	19	6343	292.55	245.7092	46.8408		257	308
3512403	6573397.889	20297865.19	47	143	1094378	402715	4	9/12/2002	23	7925	288.9	245.465778	43.434222		257	308
3512505	6590577.226	20288468.29	50	144	1423026	508989	7	6/6/1981	2	157	177	195.77397	-18.77397	-166	-166	274
3512805	6591087.449	20286770.14	51	144	1509063	556701	8	3/11/1983	4	800	198	206.611512	-8.611512	-466	-466	270
3514101	6645306.053	20309556.67	52	155	1326476	472582	6	9/12/2002	23	7925	207.69	202.409839	5.280161		-101	295
3514510	6660974.256	20295048.67	56	157	1328145	473287	6	4/15/1998	19	6314	196.7	180.356726	16.343274		180	212
3514510	6660974.256	20295048.67	56	157	1328145	473287	6	9/13/2002	23	7926	190.91	180.776176	10.133824		180	212
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/12/1981	2	316	183.39	200.265262	-16.875262	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/16/1982	3	685	184.72	199.502051	-14.782051	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/15/1983	4	1049	180.91	198.787577	-17.877577	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/9/1984	5	1409	184.51	199.869705	-15.359705	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/15/1986	7	2145	183.04	198.004584	-14.964584	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	2/5/1988	9	2592	184.2	199.795803	-15.595803	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	10/16/1988	9	2846	182.45	201.472055	-19.022055	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	10/18/1989	10	3213	181.58	200.423122	-18.843122	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/14/1990	11	3605	180.37	199.242183	-18.872183	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/9/1991	12	3965	182.42	199.114762	-16.694762	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/11/1992	13	4333	182.53	202.783611	-20.253611	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	12/15/1993	14	4732	182.31	201.202335	-18.892335	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/17/1994	15	5069	179.6	200.415837	-20.815837	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/11/1995	16	5428	180.83	201.888305	-21.058305	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/20/1996	17	5803	180.12	200.615137	-20.495137	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/20/1997	18	6168	173.23	201.496798	-28.266798	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/11/1998	19	6524	176.44	201.32018	-24.88018	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/19/1999	20	6897	175.95	203.261129	-27.311129	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/8/2000	21	7252	175.95	203.431247	-27.481247	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/9/2001	22	7618	176.45	202.647257	-26.197257	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/15/2002	23	7989	176.88	202.826306	-25.946306	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/13/2003	24	8352	176.94	202.660552	-25.720552	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/10/2004	25	8715	178.11	202.360087	-24.250087	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	1/18/2006	27	9149	176.32	202.904747	-26.584747	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/8/2006	27	9443	172.84	201.563263	-28.723263	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	12/5/2007	28	9835	171.92	202.308261	-30.388261	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	12/11/2008	29	10207	165.95	201.532327	-35.582327	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/6/2009	30	10537	173.15	201.7559	-28.6059	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	12/2/2010	31	10928	170.67	191.909554	-21.239554	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/18/2011	32	11279	163.67	199.492301	-35.822301	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/6/2012	33	11633	169.99	200.589117	-30.599117	-566	-578	215
3514703	6654841.549	20276485.19	58	154	1579492	608843	9	11/15/2013	34	12007	167.05	202.723174	-35.673174	-566	-578	215
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	3/19/1981	2	78	186.75	190.109543	-3.359543	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/12/1981	2	316	186.98	189.80447	-2.82447	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/16/1982	3	685	186.16	189.236578	-3.076578	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	2/5/1988	9	2592	188.75	189.344691	-0.594691	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	10/16/1988	9	2846	187.17	190.91343	-3.74343	-100	-100	250

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/11/1992	13	4333	188.57	192.235325	-3.665325	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	12/15/1993	14	4732	188.8	190.330257	-1.530257	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/17/1994	15	5069	189.1	189.606805	-0.506805	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/11/1995	16	5428	188.13	191.667065	-3.537065	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/21/1996	17	5804	187.65	189.849499	-2.199499	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/20/1997	18	6168	188.3	190.864525	-2.564525	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/11/1998	19	6524	188.32	190.388027	-2.068027	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/19/1999	20	6897	187.9	192.774988	-4.874988	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/8/2000	21	7252	188.03	191.947012	-3.917012	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/9/2001	22	7618	188.78	190.972068	-2.192068	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/15/2002	23	7989	189.65	191.56785	-1.91785	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/13/2003	24	8352	190.57	191.291052	-0.721052	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/11/2004	25	8716	188.98	191.254891	-2.274891	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	1/19/2006	27	9150	187.27	191.601701	-4.331701	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/8/2006	27	9443	185.52	190.624049	-5.104049	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	12/4/2007	28	9834	186.27	191.190922	-4.920922	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	12/11/2008	29	10207	184.34	190.339781	-5.999781	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	12/2/2010	31	10928	183.02	190.026627	-7.006627	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/18/2011	32	11279	177.64	189.090739	-11.450739	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/6/2012	33	11633	178.37	189.954739	-11.584739	-100	-100	250
3515703	6697093.594	20289620.94	60	162	1512303	558411	8	11/15/2013	34	12007	178.12	192.025619	-13.905619	-100	-100	250
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	3/19/1981	2	78	202.58	184.373683	18.206317	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/12/1981	2	316	202.08	184.15439	17.92561	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/16/1982	3	685	213.77	183.806871	29.963129	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/15/1983	4	1049	214.49	184.008458	30.481542	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/9/1984	5	1409	213.03	185.266584	27.763416	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	12/5/1985	6	1800	209.58	184.259782	25.320218	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/15/1986	7	2145	212.61	182.310976	30.299024	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	2/5/1988	9	2592	212.27	183.58256	28.68744	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	10/16/1988	9	2846	207.64	185.4132	22.2268	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	10/18/1989	10	3213	204.49	185.512612	18.977388	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/14/1990	11	3605	200.99	184.723359	16.266641	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/9/1991	12	3965	201.63	184.448479	17.181521	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/11/1992	13	4333	214.85	186.386075	28.463925	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	12/15/1993	14	4732	214.82	184.250268	30.569732	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/17/1994	15	5069	218.15	183.425594	34.724406	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/11/1995	16	5428	218.15	185.652144	32.497856	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/21/1996	17	5804	217.04	183.685867	33.354133	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/20/1997	18	6168	218	185.124614	32.875386	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/11/1998	19	6524	217.35	184.74224	32.60776	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/19/1999	20	6897	216.1	186.383891	29.716109	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/8/2000	21	7252	213.53	185.385859	28.144141	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/9/2001	22	7618	212.16	184.601501	27.558499	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/15/2002	23	7989	209.5	184.795814	24.704186	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/13/2003	24	8352	207.35	185.116961	22.233039	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/11/2004	25	8716	218.36	184.97886	33.38114	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/8/2006	27	9443	215.05	184.318919	30.731081	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	12/4/2007	28	9834	215.06	184.41279	30.64721	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	12/11/2008	29	10207	214.48	184.025931	30.454069	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/6/2009	30	10537	217.72	183.440632	34.279368	-245	-245	240

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	12/2/2010	31	10928	215.51	183.537646	31.972354	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/18/2011	32	11279	213.1	182.856016	30.243984	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/6/2012	33	11633	212	183.55616	28.44384	-245	-245	240
3516801	6738478.104	20294551.23	63	170	1581041	610121	9	11/15/2013	34	12007	212.26	185.313233	26.946767	-245	-245	240
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	11/8/1984	5	1408	178.27	264.499875	-86.229875		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	11/19/1986	7	2149	177.24	260.442169	-83.202169		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	2/11/1988	9	2598	176.63	260.089428	-83.459428		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	10/18/1988	9	2848	167.37	260.92778	-93.55778		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	10/19/1989	10	3214	166.51	264.488692	-97.978692		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	12/14/1993	14	4731	161.5	263.220516	-101.72052		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	11/15/1995	16	5432	159.86	264.342632	-104.48263		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	11/19/1996	17	5802	155.69	261.138943	-105.44894		-14	386
3517103	6459503.608	20257640.46	44	120	1420614	507742	7	11/7/1997	18	6155	158.32	262.987409	-104.66741		-14	386
3517208	6476950.583	20266240.31	44	124	1091797	400921	4	7/21/1985	6	1663	310	295.010504	14.989496	245	244	360
3517208	6476950.583	20266240.31	44	124	1091797	400921	4	4/14/1989	10	3026	309	296.860746	12.139254	245	244	360
3517209	6469163.936	20259194.38	44	122	1420616	507744	7	10/22/1987	8	2486	76.13	156.83456	-80.70456	-142	-152	348
3517304	6485646.944	20253463.34	47	124	1421668	508342	7	3/15/1985	6	1535	162	203.170301	-41.170301	-299	-300	412
3517402	6462157.441	20236779.78	47	118	1421662	508336	7	5/1/1986	7	1947	228	240.880122	-12.880122	-191	-235	435
3517403	6456601.925	20248184.1	45	119	1420973	507960	7	10/21/1987	8	2485	170	214.37418	-44.37418	-110	-133	480
3517404	6465915.373	20246174.21	46	120	1421316	508156	7	10/21/1987	8	2485	146.5	248.08163	-101.58163	-169	-181	442
3517404	6465915.373	20246174.21	46	120	1421316	508156	7	1/1/1999	20	6575	149	247.309614	-98.309614	-169	-181	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	3/23/1987	8	2273	192	250.155842	-58.155842	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	10/21/1987	8	2485	158.13	249.936786	-91.806786	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	8/15/1997	18	6071	141	251.084868	-110.08487	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/7/1997	18	6155	123.4	251.559083	-128.15908	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	12/19/1998	19	6562	112.61	207.936398	-95.326398	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/14/1999	20	6892	143.1	253.106525	-110.06525	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/17/2000	21	7261	121.54	251.190066	-129.65007	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/15/2001	22	7624	147.45	254.191536	-106.74154	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/20/2002	23	7994	123.4	252.141655	-128.74166	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/6/2003	24	8345	117.93	251.85127	-133.92127	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/5/2004	25	8710	114.65	246.561307	-131.91131	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	1/21/2006	27	9152	116.7	246.45806	-129.75806	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/10/2006	27	9445	108.47	240.064955	-131.59496	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	12/12/2007	28	9842	115	245.148811	-130.14881	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	12/20/2008	29	10216	98	241.223703	-143.2237	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/19/2009	30	10550	93	199.462349	-106.46235	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	12/1/2010	31	10927	95.6	196.70147	-101.10147	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/19/2011	32	11280	79.2	185.449666	-106.24967	-322	-328	442
3517405	6464088.661	20243151.6	46	119	1421315	508155	7	11/15/2012	33	11642	107.8	236.105948	-128.30595	-322	-328	442
3517406	6462849.57	20244108.99	46	119	1507214	555594	8	6/22/2002	23	7843	145	198.539866	-53.539866	-323	-323	426
3517501	6472314.962	20250013.44	46	121	1421317	508157	7	11/10/1981	2	314	156.64	246.309017	-89.669017		-175	410
3517501	6472314.962	20250013.44	46	121	1421317	508157	7	11/18/1982	3	687	152.82	244.190231	-91.370231		-175	410
3517501	6472314.962	20250013.44	46	121	1421317	508157	7	11/16/1983	4	1050	152.41	244.767049	-92.357049		-175	410
3517501	6472314.962	20250013.44	46	121	1421317	508157	7	12/6/1985	6	1801	152.43	244.535326	-92.105326		-175	410
3517505	6470187.349	20247990.4	46	121	1421317	508157	7	10/23/1987	8	2487	149.39	214.756948	-65.366948	-65	-66	425
3517606	6489114.654	20250481.16	47	124	1507537	555797	8	6/3/1989	10	3076	189	214.77602	-25.77602	-481	-504	334
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	3/18/1981	2	77	379.15	348.78407	30.36593		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/10/1981	2	314	376.96	348.646192	28.313808		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/18/1982	3	687	378.17	348.418608	29.751392		360	410

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/16/1983	4	1050	380.11	348.5824	31.5276		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/8/1984	5	1408	377.37	349.535501	27.834499		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/19/1986	7	2149	380.74	346.209608	34.530392		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	2/11/1988	9	2598	392.79	348.307411	44.482589		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	10/18/1988	9	2848	382.3	349.548933	32.751067		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	10/19/1989	10	3214	383.73	349.918759	33.811241		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/13/1990	11	3604	391.88	349.293588	42.586412		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/14/1991	12	3970	392.13	348.952212	43.177788		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	12/9/1992	13	4361	391.62	350.033304	41.586696		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	12/14/1993	14	4731	391.69	348.500539	43.189461		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/15/1994	15	5067	392.45	347.516152	44.933848		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/15/1995	16	5432	390.13	349.374515	40.755485		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/19/1996	17	5802	384.09	347.598371	36.491629		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/7/1997	18	6155	392	349.079442	42.920558		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	12/19/1998	19	6562	397.61	348.939143	48.670857		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/18/1999	20	6896	390.2	349.994278	40.205722		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/17/2000	21	7261	393.17	349.491234	43.678766		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/27/2001	22	7636	392.45	348.985194	43.464806		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/20/2002	23	7994	391.03	348.809515	42.220485		360	410
3517701	6464510.864	20230095.64	49	118	1096056	403591	4	11/5/2004	25	8710	391	349.113312	41.886688		360	410
3517704	6464160.694	20230282.24	48	118	1422109	508539	7	11/26/1987	8	2521	205	235.227093	-30.227093	-197	-200	400
3517704	6464160.694	20230282.24	48	118	1422109	508539	7	4/13/1989	10	3025	197.8	233.924332	-36.124332	-197	-200	400
3517802	6475556.407	20235160.45	49	121	1325209	472098	6	10/21/1987	8	2485	156.34	199.776555	-43.436555	-84	-112	450
3517803	6475514.75	20236070.79	49	121	1422607	508773	7	5/11/1985	6	1592	171	224.902689	-53.902689	-161	-168	422
3517803	6475514.75	20236070.79	49	121	1422607	508773	7	10/21/1987	8	2485	134.1	210.469972	-76.369972	-161	-168	422
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	12/19/1998	19	6562	123.82	236.8259	-113.0059	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/19/1999	20	6897	119.7	240.473837	-120.77384	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/17/2001	22	7626	120.48	241.537983	-121.05798	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/21/2002	23	7995	124.95	239.498879	-114.54888	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/7/2003	24	8346	120.25	239.657647	-119.40765	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/5/2004	25	8710	115.2	235.530847	-120.33085	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	1/21/2006	27	9152	106.82	234.1026	-127.2826	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/10/2006	27	9445	105.15	227.821712	-122.67171	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/16/2007	28	9816	102.86	194.037977	-91.177977	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/15/2008	29	10181	113.4	229.218648	-115.81865	-101	-256	365
3517804	6479457.844	20224594.79	51	120	1423356	509121	7	11/19/2009	30	10550	102.42	193.958245	-91.538245	-101	-256	365
3517806	6479392.907	20226010.84	51	120	1423356	509121	7	7/26/2003	24	8242	121	180.381342	-59.381342	-121	-162	401
3517903	6491575.836	20225976.83	52	122	1326443	472549	6	5/9/2006	27	9260	147	185.456335	-38.456335	-79	-95	451
3518301	6532163.468	20255638.96	51	132	1326006	472413	6	11/10/1981	2	314	248.57	235.489854	13.080146		70	320
3518301	6532163.468	20255638.96	51	132	1326006	472413	6	11/18/1982	3	687	246.12	234.386481	11.733519		70	320
3518301	6532163.468	20255638.96	51	132	1326006	472413	6	11/7/1984	5	1407	242.31	235.201715	7.108285		70	320
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	10/1/1996	17	5753	180.5	231.420283	-50.920283	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/20/1996	17	5803	170.2	231.210399	-61.010399	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/7/1997	18	6155	171.92	232.143756	-60.223756	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	12/18/1998	19	6561	165	231.454646	-66.454646	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/18/1999	20	6896	164.45	233.205981	-68.755981	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/17/2000	21	7261	169.7	234.012574	-64.312574	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/15/2001	22	7624	160.9	235.115444	-74.215444	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/20/2002	23	7994	162.08	233.769696	-71.689696	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/7/2003	24	8346	151.1	233.805169	-82.705169	-77	-81	359

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/5/2004	25	8710	148.06	231.317305	-83.257305	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	1/21/2006	27	9152	139.67	230.903176	-91.233176	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/10/2006	27	9445	138.01	227.391988	-89.381988	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/16/2007	28	9816	126.34	199.246291	-72.906291	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/14/2008	29	10180	137.51	228.192408	-90.682408	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/20/2009	30	10551	144.97	230.401713	-85.431713	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	12/1/2010	31	10927	144.08	227.438744	-83.358744	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/17/2011	32	11278	136.75	222.694345	-85.944345	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/15/2012	33	11642	143.25	225.992787	-82.742787	-77	-81	359
3518303	6529654.602	20256330.77	50	131	1423013	508976	7	11/15/2013	34	12007	131.71	230.397935	-98.687935	-77	-81	359
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	3/18/1981	2	77	222.76	236.177345	-13.417345	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/16/1983	4	1050	211.67	239.683829	-28.013829	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/7/1984	5	1407	198.06	239.999926	-41.939926	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	12/6/1985	6	1801	207.83	239.779573	-31.949573	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/19/1986	7	2149	208.54	237.447906	-28.907906	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	2/11/1988	9	2598	211	236.592674	-25.592674	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	10/18/1988	9	2848	208.21	237.390948	-29.180948	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	10/19/1989	10	3214	207.44	236.954953	-29.514953	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/13/1990	11	3604	206.03	237.807293	-31.777293	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/14/1991	12	3970	205.64	237.427664	-31.787664	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	12/9/1992	13	4361	204.87	242.425884	-37.555884	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	12/15/1993	14	4732	204.01	236.852148	-32.842148	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/15/1994	15	5067	203.09	233.606854	-30.516854	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/15/1995	16	5432	199.84	237.258238	-37.418238	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/20/1996	17	5803	200.4	234.277199	-33.877199	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/7/1997	18	6155	199.47	235.247221	-35.777221	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	12/18/1998	19	6561	197.85	233.749839	-35.899839	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/18/1999	20	6896	195.7	236.422284	-40.722284	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/15/2001	22	7624	192.4	237.892707	-45.492707	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/20/2002	23	7994	191.21	236.054306	-44.844306	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/7/2003	24	8346	185.25	236.263566	-51.013566	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/5/2004	25	8710	188.93	232.655969	-43.725969	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	1/20/2006	27	9151	184.91	232.058908	-47.148908	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/9/2006	27	9444	182.65	227.265796	-44.615796	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/16/2007	28	9816	179.81	231.490624	-51.680624	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/14/2008	29	10180	178.16	228.42648	-50.26648	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	12/1/2010	31	10927	164.62	227.508769	-62.888769	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/14/2012	33	11641	169.85	225.274213	-55.424213	-77	-77	333
3518401	6506599.728	20245413.86	50	127	1325626	472252	6	11/15/2013	34	12007	168.09	231.114304	-63.024304	-77	-77	333
3518502	6518218.87	20239876.53	52	128	1509452	556893	8	10/15/1983	4	1018	215	225.06567	-10.06567	-489	-509	335
3518602	6531990.377	20252082.98	51	131	1423367	509132	7	1/1/1981	2	1	214	237.856904	-23.856904	-119	-129	291
3518602	6531990.377	20252082.98	51	131	1423367	509132	7	10/24/1987	8	2488	165.03	232.696103	-67.666103	-119	-129	291
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	3/18/1981	2	77	329.26	320.94192	8.31808		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/10/1981	2	314	328.16	320.481166	7.678834		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/18/1982	3	687	326.66	319.804868	6.855132		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/16/1983	4	1050	328.45	320.217859	8.232141		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/7/1984	5	1407	328.3	322.841091	5.458909		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/19/1986	7	2149	328.76	315.823726	12.936274		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	2/11/1988	9	2598	337.11	318.327912	18.782088		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	10/18/1988	9	2848	330	322.641082	7.358918		318	365

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	10/19/1989	10	3214	332.56	324.179709	8.380291		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/13/1990	11	3604	342.6	322.401062	20.198938		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/14/1991	12	3970	335.28	321.328449	13.951551		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	12/9/1992	13	4361	340.8	324.389358	16.410642		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	12/15/1993	14	4732	337.2	320.189421	17.010579		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/15/1994	15	5067	341.9	317.429638	24.470362		318	365
3518701	6505688.193	20230166.77	52	125	1098683	405160	4	11/15/1995	16	5432	341.17	322.045131	19.124869		318	365
3518706	6498982.891	20234720.39	51	124	1097785	404644	4	5/20/1998	19	6349	327.2	321.378252	5.821748		314	338
3518707	6495688.131	20226559.58	52	123	1326444	472550	6	3/2/2002	23	7731	159	195.012251	-36.012251	-99	-99	343
3518805	6509543.618	20229941.4	53	126	1326981	472706	6	10/24/1987	8	2488	187.95	220.609396	-32.659396	-141	-165	375
3518806	6510822.437	20228176.63	53	126	1424322	509513	7	6/17/1983	4	898	192	214.438303	-22.438303	-197	-218	342
3518901	6532730.849	20234682.58	54	130	1424704	509678	7	12/7/2000	21	7281	179	206.908174	-27.908174	-71	-81	287
3518902	6532726.052	20234783.71	54	130	1510291	557322	8	2/1/2001	22	7337	175	203.783472	-28.783472	-448	-480	287
3518903	6532904.829	20236414.18	54	130	1424704	509678	7	7/10/2002	23	7861	192	213.349244	-21.349244	-77	-95	261
3519102	6532636.076	20263669.22	49	133	1508362	556325	8	8/7/1982	3	584	210	232.486601	-22.486601	-282	-310	280
3519102	6532636.076	20263669.22	49	133	1508362	556325	8	10/24/1987	8	2488	172.58	230.277152	-57.697152	-282	-310	280
3519202	6545290.52	20257886.59	51	134	1423370	509135	7	8/17/1986	7	2055	202	222.228715	-20.228715	-259	-260	370
3519202	6545290.52	20257886.59	51	134	1423370	509135	7	10/24/1987	8	2488	164.29	197.115291	-32.825291	-259	-260	370
3519402	6537692.294	20248907.27	52	132	1509456	556897	8	10/24/1987	8	2488	160.41	194.518089	-34.108089	-310	-310	350
3520202	6594533.754	20268794	54	143	1510304	557335	8	5/18/2006	27	9269	166.1	190.640198	-24.540198	-379	-379	300
3520504	6587314.627	20245426.45	57	140	1425704	510164	7	2/10/1988	9	2597	210	212.634382	-2.634382	-235	-245	325
3520802	6589141.591	20239534.89	58	140	1426148	510418	7	8/20/1987	8	2423	193	204.488369	-11.488369	-212	-217	268
3520803	6589658.045	20239459.17	58	140	1426148	510418	7	12/16/1988	9	2907	225	221.717329	3.282671	-145	-155	275
3520804	6587130.961	20230007.94	60	139	1427074	510980	7	3/24/1995	16	5196	191.3	205.556482	-14.256482	-185	-185	250
3520805	6588175.032	20231377.38	60	139	1427074	510980	7	11/22/1994	15	5074	166.3	192.448983	-26.148983	-205	-205	311
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	3/21/1981	2	80	277.68	309.873811	-32.193811		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/12/1981	2	316	277.37	309.274896	-31.904896		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/17/1982	3	686	276.89	308.479565	-31.589565		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/17/1983	4	1051	274.82	308.957154	-34.137154		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	10/31/1984	5	1400	275.1	311.589715	-36.489715		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/18/1986	7	2148	276.78	304.731767	-27.951767		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	2/5/1988	9	2592	277.15	307.002857	-29.852857		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	10/18/1988	9	2848	277.38	311.614079	-34.234079		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	10/18/1989	10	3213	278.41	312.061315	-33.651315		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/14/1990	11	3605	279.31	311.290522	-31.980522		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/6/1991	12	3962	280.92	310.333816	-29.413816		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/12/1992	13	4334	280.9	312.146134	-31.246134		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	12/17/1993	14	4734	280.47	308.745165	-28.275165		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/17/1994	15	5069	279.92	306.297336	-26.377336		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/15/1995	16	5432	280.16	311.338043	-31.178043		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/21/1996	17	5804	279.02	306.762203	-27.742203		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/20/1997	18	6168	279.53	310.908424	-31.378424		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/12/1998	19	6525	279.5	310.908259	-31.408259		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/19/1999	20	6897	279.65	312.24338	-32.59338		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/9/2000	21	7253	278.55	311.646342	-33.096342		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/9/2001	22	7618	279.1	310.692873	-31.592873		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/15/2002	23	7989	279.9	310.39726	-30.49726		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/13/2003	24	8352	279.2	311.472141	-32.272141		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	11/11/2004	25	8716	278.63	311.308864	-32.678864		265	355
3520903	6598230.556	20237144.2	60	141	1105827	408739	4	1/18/2006	27	9149	277.92	311.230751	-33.310751		265	355

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3521301	6642603.785	20265318.15	59	151	1511950	558204	8	4/15/1998	19	6314	194.9	202.307781	-7.407781		-3	345
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/13/1981	2	317	285.74	292.058306	-6.318306		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/17/1982	3	686	285.67	292.043822	-6.373822		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/17/1983	4	1051	286.07	292.063965	-5.993965		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	10/31/1984	5	1400	286.7	292.162224	-5.462224		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	12/6/1985	6	1801	287.55	292.066559	-4.516559		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/18/1986	7	2148	287.24	291.931365	-4.691365		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	2/5/1988	9	2592	288.1	292.120297	-4.020297		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	10/18/1988	9	2848	287.13	292.190067	-5.060067		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	10/18/1989	10	3213	289.97	292.190018	-2.220018		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/14/1990	11	3605	286.93	292.105453	-5.175453		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/6/1991	12	3962	289.4	292.08348	-2.68348		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/12/1992	13	4334	287.07	292.215626	-5.145626		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/17/1994	15	5069	286.07	291.990159	-5.920159		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/15/1995	16	5432	283.14	292.162911	-9.022911		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/21/1996	17	5804	285.05	291.982629	-6.932629		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/20/1997	18	6168	288.35	292.127912	-3.777912		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/12/1998	19	6525	286.45	292.093464	-5.643464		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/19/1999	20	6897	284.7	292.213258	-7.513258		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/9/2000	21	7253	284.83	292.12835	-7.29835		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/9/2001	22	7618	288.08	292.080273	-4.000273		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/15/2002	23	7989	286.68	292.080062	-5.400062		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/13/2003	24	8352	282.88	292.132277	-9.252277		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/11/2004	25	8716	281.61	292.105519	-10.495519		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	1/18/2006	27	9149	285.11	292.097962	-6.987962		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	11/11/2006	27	9446	283.55	292.058643	-8.508643		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	12/4/2007	28	9834	283.81	292.052072	-8.242072		260	320
3521401	6610503.122	20248092.63	59	144	1104972	408423	4	12/11/2008	29	10207	285.01	292.05042	-7.04042		260	320
3521902	6637788.787	20240641.08	63	148	1513429	559099	8	3/11/1995	16	5183	207	215.948666	-8.948666	-210	-213	317
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	3/19/1981	2	78	234	201.932637	32.067363	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/12/1981	2	316	233.8	201.740973	32.059027	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/17/1982	3	686	233.68	201.455231	32.224769	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/17/1983	4	1051	234.53	201.553374	32.976626	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/16/1986	7	2146	233.77	200.051009	33.718991	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	2/5/1988	9	2592	235.98	200.923598	35.056402	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	10/16/1988	9	2846	234.35	202.502216	31.847784	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	10/17/1989	10	3212	235.43	203.004701	32.425299	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/15/1990	11	3606	234.62	202.285586	32.334414	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/6/1991	12	3962	235.02	201.984293	33.035707	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/12/1992	13	4334	234.7	203.337406	31.362594	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	12/17/1993	14	4734	234.37	201.61096	32.75904	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/17/1994	15	5069	235.06	200.929156	34.130844	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/11/1995	16	5428	234.28	202.562825	31.717175	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/21/1996	17	5804	234.95	201.08787	33.86213	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/20/1997	18	6168	234.94	202.242475	32.697525	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/11/1998	19	6524	235.15	202.200979	32.949021	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/9/2001	22	7618	235.22	202.188966	33.031034	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/15/2002	23	7989	234.44	202.105368	32.334632	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/11/2004	25	8716	235.1	202.318586	32.781414	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/11/2006	27	9446	233.4	202.003706	31.396294	229	225	250

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	12/4/2007	28	9834	234.76	201.90204	32.85796	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	12/4/2010	31	10930	234.13	201.280593	32.849407	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/18/2011	32	11279	232.85	200.697845	32.152155	229	225	250
3522401	6658849.2	20254892.36	62	153	1428173	511739	7	11/15/2013	34	12007	233.47	202.496091	30.973909	229	225	250
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/12/1981	2	316	175.54	231.346999	-55.806999	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/17/1983	4	1051	156.96	208.196848	-51.236848	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	10/31/1984	5	1400	165.11	232.08158	-66.97158	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/16/1986	7	2146	159.73	227.566576	-67.836576	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	10/16/1988	9	2846	144.26	205.948666	-61.688666	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	10/18/1989	10	3213	169.92	233.65054	-63.73054	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/6/1991	12	3962	148.06	206.630753	-58.570753	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/12/1992	13	4334	162.88	234.678204	-71.798204	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	12/17/1993	14	4734	172.5	231.724656	-59.224656	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/11/1995	16	5428	177.75	233.01025	-55.26025	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/21/1996	17	5804	192.06	230.797409	-38.737409	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/20/1997	18	6168	180.81	232.6986	-51.8886	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/12/1998	19	6525	170.57	233.37586	-62.80586	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/9/2001	22	7618	150.35	208.951605	-58.601605	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/15/2002	23	7989	148.22	208.041716	-59.821716	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/13/2003	24	8352	151.35	234.035272	-82.685272	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/11/2004	25	8716	137.6	204.850996	-67.250996	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	1/18/2006	27	9149	164.15	234.967161	-70.817161	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/11/2006	27	9446	163.9	233.572572	-69.672572	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	12/7/2007	28	9837	173.08	233.741326	-60.661326	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	12/11/2008	29	10207	164.47	233.17667	-68.70667	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/7/2009	30	10538	158.01	232.689039	-74.679039	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	12/3/2010	31	10929	171.67	232.047476	-60.377476	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/18/2011	32	11279	172.3	230.316406	-58.016406	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/14/2012	33	11641	107.95	194.448056	-86.498056	-100	-100	300
3522708	6658075.947	20239948.98	65	151	1514413	559697	8	11/15/2013	34	12007	119.9	234.491553	-114.59155	-100	-100	300
3522802	6666296.561	20241283.04	65	153	1581768	610720	9	3/27/1984	5	1182	206	218.276809	-12.276809	-111	-113	321
3523101	6690584.964	20270422.1	63	159	1513446	559116	8	7/16/1991	12	3849	171.14	191.539533	-20.399533	161	150	181
3523101	6690584.964	20270422.1	63	159	1513446	559116	8	8/23/1991	12	3887	170.87	191.525514	-20.655514	161	150	181
3523101	6690584.964	20270422.1	63	159	1513446	559116	8	11/14/1991	12	3970	169.86	191.498456	-21.638456	161	150	181
3523101	6690584.964	20270422.1	63	159	1513446	559116	8	2/5/1992	13	4053	173.21	191.93826	-18.72826	161	150	181
3523101	6690584.964	20270422.1	63	159	1513446	559116	8	5/20/1992	13	4158	171.22	192.841236	-21.621236	161	150	181
3523101	6690584.964	20270422.1	63	159	1513446	559116	8	8/6/1992	13	4236	171.05	193.201018	-22.151018	161	150	181
3523101	6690584.964	20270422.1	63	159	1513446	559116	8	11/11/1992	13	4333	169.67	193.461818	-23.791818	161	150	181
3523202	6703294.217	20270681.72	64	162	1581456	610475	9	10/8/1992	13	4299	174	181.504764	-7.504764	-70	-70	180
3523203	6702984.922	20266812.77	64	161	1581455	610474	9	12/10/1992	13	4362	174	182.192581	-8.192581	-61	-74	180
3523301	6721749.45	20275306.65	65	165	1514515	559799	8	7/16/1991	12	3849	169.36	175.300811	-5.940811	155	145	176
3523301	6721749.45	20275306.65	65	165	1514515	559799	8	8/23/1991	12	3887	169.29	175.297597	-6.007597	155	145	176
3523301	6721749.45	20275306.65	65	165	1514515	559799	8	11/14/1991	12	3970	170.22	175.2918	-5.0718	155	145	176
3523301	6721749.45	20275306.65	65	165	1514515	559799	8	2/6/1992	13	4054	171.29	175.583184	-4.293184	155	145	176
3523301	6721749.45	20275306.65	65	165	1514515	559799	8	5/21/1992	13	4159	169.71	175.939575	-6.229575	155	145	176
3523301	6721749.45	20275306.65	65	165	1514515	559799	8	8/5/1992	13	4235	170.52	176.040269	-5.520269	155	145	176
3523301	6721749.45	20275306.65	65	165	1514515	559799	8	11/11/1992	13	4333	169.68	176.1098	-6.4298	155	145	176
3523505	6711076.065	20262371.8	66	162	1514997	560152	8	6/26/1991	12	3829	171.72	182.117391	-10.397391	156	154	175
3523505	6711076.065	20262371.8	66	162	1514997	560152	8	8/23/1991	12	3887	169.54	182.105892	-12.565892	156	154	175
3523505	6711076.065	20262371.8	66	162	1514997	560152	8	11/14/1991	12	3970	170.67	182.093147	-11.423147	156	154	175

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3523505	6711076.065	20262371.8	66	162	1514997	560152	8	2/6/1992	13	4054	174.41	182.371003	-7.961003	156	154	175
3523505	6711076.065	20262371.8	66	162	1514997	560152	8	5/21/1992	13	4159	171.16	182.739088	-11.579088	156	154	175
3523505	6711076.065	20262371.8	66	162	1514997	560152	8	8/5/1992	13	4235	169.58	182.852815	-13.272815	156	154	175
3523505	6711076.065	20262371.8	66	162	1514997	560152	8	11/11/1992	13	4333	169.09	182.9349	-13.8449	156	154	175
3523506	6705438.24	20259134.37	66	161	1514980	560135	8	6/26/1991	12	3829	171.12	186.522031	-15.402031	147	137	173
3523506	6705438.24	20259134.37	66	161	1514980	560135	8	8/22/1991	12	3886	168.61	186.505814	-17.895814	147	137	173
3523506	6705438.24	20259134.37	66	161	1514980	560135	8	11/15/1991	12	3971	169.7	186.486803	-16.786803	147	137	173
3523506	6705438.24	20259134.37	66	161	1514980	560135	8	2/6/1992	13	4054	171.32	186.766904	-15.446904	147	137	173
3523506	6705438.24	20259134.37	66	161	1514980	560135	8	5/21/1992	13	4159	169.37	187.191096	-17.821096	147	137	173
3523506	6705438.24	20259134.37	66	161	1514980	560135	8	8/6/1992	13	4236	170.02	187.337314	-17.317314	147	137	173
3523506	6705438.24	20259134.37	66	161	1514980	560135	8	11/11/1992	13	4333	169.11	187.444922	-18.334922	147	137	173
3523508	6711316.106	20256199.21	67	162	1582413	611273	9	11/11/1988	9	2872	152	172.901182	-20.901182	20	10	320
3523509	6708408.93	20254626.49	67	161	1582412	611272	9	5/12/2006	27	9263	222	198.602481	23.397519		-173	329
3523509	6708408.93	20254626.49	67	161	1582412	611272	9	3/19/2010	31	10670	222.27	197.840321	24.429679		-173	329
3523509	6708408.93	20254626.49	67	161	1582412	611272	9	11/18/2011	32	11279	217.04	203.232257	13.807743		-173	329
3523509	6708408.93	20254626.49	67	161	1582412	611272	9	11/14/2012	33	11641	222.68	197.79755	24.88245		-173	329
3523509	6708408.93	20254626.49	67	161	1582412	611272	9	11/15/2013	34	12007	221.52	198.953446	22.566554		-173	329
3523603	6720679.082	20263285.15	67	164	1515515	560546	8	6/28/1991	12	3831	172.48	176.86401	-4.38401	152	138	189
3523603	6720679.082	20263285.15	67	164	1515515	560546	8	8/23/1991	12	3887	169.34	176.859898	-7.519898	152	138	189
3523603	6720679.082	20263285.15	67	164	1515515	560546	8	11/14/1991	12	3970	169.59	176.855375	-7.265375	152	138	189
3523603	6720679.082	20263285.15	67	164	1515515	560546	8	5/21/1992	13	4159	169.88	177.240947	-7.360947	152	138	189
3523603	6720679.082	20263285.15	67	164	1515515	560546	8	8/5/1992	13	4235	170	177.286914	-7.286914	152	138	189
3523603	6720679.082	20263285.15	67	164	1515515	560546	8	11/11/1992	13	4333	169.71	177.317341	-7.607341	152	138	189
3523605	6714462.134	20259711.41	67	162	1582413	611273	9	9/24/1981	2	267	150	175.689123	-25.689123	65	-50	250
3523802	6708510.033	20246216.25	68	160	1582708	611529	9	11/12/1981	2	316	215.9	208.622345	7.277655		20	285
3523802	6708510.033	20246216.25	68	160	1582708	611529	9	11/17/1982	3	686	216.67	208.343551	8.326449		20	285
3525202	6473667.105	20218552.18	51	119	1423355	509120	7	5/4/1985	6	1585	99	246.91307	-147.91307	-109	-109	335
3525202	6473667.105	20218552.18	51	119	1423355	509120	7	8/15/1997	18	6071	88.9	239.698918	-150.79892	-109	-109	335
3525403	6458438.037	20205696.48	52	115	1326436	472542	6	10/21/1987	8	2485	222.29	233.606282	-11.316282	125	104	430
3525602	6490106.73	20197514	56	119	1328048	473202	6	11/11/1981	2	315	269.15	251.717837	17.432163	-60	-156	380
3525602	6490106.73	20197514	56	119	1328048	473202	6	11/2/1982	3	671	260	247.519778	12.480222	-60	-156	380
3525602	6490106.73	20197514	56	119	1328048	473202	6	10/30/1984	5	1399	260.55	248.744897	11.805103	-60	-156	380
3525602	6490106.73	20197514	56	119	1328048	473202	6	12/6/1985	6	1801	267.63	250.500501	17.129499	-60	-156	380
3525602	6490106.73	20197514	56	119	1328048	473202	6	11/19/1986	7	2149	265.6	248.283847	17.316153	-60	-156	380
3525602	6490106.73	20197514	56	119	1328048	473202	6	2/12/1988	9	2599	266.45	247.85139	18.59861	-60	-156	380
3525603	6496378.616	20196891.67	57	120	1103103	407584	4	5/14/1998	19	6343	360.9	339.415539	21.484461		340	378
3526204	6519802.236	20209844.94	57	126	1328493	473423	6	10/15/1987	8	2479	222.9	228.391043	-5.491043	45	45	405
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	3/17/1981	2	76	369.46	336.148706	33.311294		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/11/1981	2	315	369.91	335.216742	34.693258		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/19/1982	3	688	369.26	333.880854	35.379146		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/17/1983	4	1051	368.01	334.503824	33.506176		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	10/30/1984	5	1399	368.6	339.12318	29.47682		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/19/1986	7	2149	369.19	329.372766	39.817234		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	2/12/1988	9	2599	371.39	331.865129	39.524871		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/11/1988	9	2872	367.4	338.846775	28.553225		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	10/19/1989	10	3214	368.4	341.747623	26.652377		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/13/1990	11	3604	372.36	339.365132	32.994868		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	12/11/1991	12	3997	373.73	337.175362	36.554638		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/17/1992	13	4339	369.93	341.95807	27.97193		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	12/14/1993	14	4731	370.35	335.672906	34.677094		354	380

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	1/27/1995	16	5140	375.09	331.944426	43.145574		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/11/1995	16	5428	368.75	337.848595	30.901405		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/21/1996	17	5804	368.87	332.079603	36.790397		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/20/1997	18	6168	369.64	336.997077	32.642923		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/12/1998	19	6525	369.78	337.355436	32.424564		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/19/1999	20	6897	368.15	342.15744	25.99256		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/10/2000	21	7254	369.72	340.830769	28.889231		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/8/2001	22	7617	369.78	338.316385	31.463615		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/19/2002	23	7993	369.17	337.081146	32.088854		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/11/2003	24	8350	368.06	339.328383	28.731617		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/12/2004	25	8717	367.88	338.83801	29.04199		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	1/17/2006	27	9148	366.86	338.650414	28.209586		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/10/2006	27	9445	366.13	336.16305	29.96695		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/15/2007	28	9815	367.81	335.005492	32.804508		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/15/2008	29	10181	368.03	334.508486	33.521514		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/20/2009	30	10551	370.38	332.157882	38.222118		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	12/3/2010	31	10929	367.65	331.732981	35.917019		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	10/27/2011	32	11257	366.06	329.381547	36.678453		354	380
3526401	6501718.195	20199774.84	57	122	1103105	407584	4	11/13/2012	33	11640	366.35	330.97987	35.37013		354	380
3526404	6506676.297	20197978.58	58	122	1103945	407925	4	7/26/2002	23	7877	309.8	328.759294	-18.959294		302	330
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	3/17/1981	2	76	222.16	251.480456	-29.320456	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/11/1981	2	315	221.54	250.471698	-28.931698	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	10/30/1984	5	1399	220.34	251.062856	-30.722856	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	1/14/1986	7	1840	228.92	250.153354	-21.233354	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/19/1986	7	2149	222.65	247.996777	-25.346777	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	9/24/1987	8	2458	231.46	248.468821	-17.008821	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	2/12/1988	9	2599	232.67	249.006257	-16.336257	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	10/20/1989	10	3215	227.02	251.66558	-24.64558	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/13/1990	11	3604	233.44	252.198721	-18.758721	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	12/11/1991	12	3997	232.28	252.419076	-20.139076	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/17/1992	13	4339	232.62	255.601728	-22.981728	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	12/14/1993	14	4731	232.62	251.280705	-18.660705	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/11/1995	16	5428	221.4	251.671715	-30.271715	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/21/1996	17	5804	223.91	248.082677	-24.172677	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/20/1997	18	6168	226.83	250.845877	-24.015877	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/12/1998	19	6525	224.85	251.011749	-26.161749	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/19/1999	20	6897	216.1	252.698355	-36.598355	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/10/2000	21	7254	220.2	252.741045	-32.541045	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/20/2002	23	7994	216.08	251.139142	-35.059142	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/11/2003	24	8350	215.62	251.988622	-36.368622	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/12/2004	25	8717	215.26	252.248382	-36.988382	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	1/17/2006	27	9148	213.86	250.134541	-36.274541	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/10/2006	27	9445	208.87	246.585493	-37.715493	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/15/2007	28	9815	205.53	248.585912	-43.055912	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/15/2008	29	10181	206.51	246.756832	-40.246832	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/18/2009	30	10549	208.6	247.734333	-39.134333	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	12/3/2010	31	10929	206.48	245.506639	-39.026639	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	10/27/2011	32	11257	195.5	240.731389	-45.231389	-75	-85	345
3526706	6504057.635	20178900.68	61	120	1427502	511247	7	11/13/2012	33	11640	202.33	243.289128	-40.959128	-75	-85	345
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/11/1981	2	315	342.59	312.114019	30.475981		326	375

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/19/1982	3	688	342.11	311.543292	30.566708		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/17/1983	4	1051	341.03	311.943459	29.086541		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	10/31/1984	5	1400	340.08	314.380974	25.699026		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/18/1986	7	2148	344.47	309.231197	35.238803		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	2/12/1988	9	2599	346.86	311.407312	35.452688		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/10/1988	9	2871	344.08	314.608946	29.471054		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	10/19/1989	10	3214	344.69	315.709906	28.980094		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/13/1990	11	3604	347.66	314.065439	33.594561		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	12/11/1991	12	3997	350.65	313.112089	37.537911		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/18/1992	13	4340	349.45	316.039131	33.410869		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	12/14/1993	14	4731	348.3	312.211503	36.088497		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	1/27/1995	16	5140	350.74	311.009029	39.730971		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/11/1995	16	5428	347.5	314.072352	33.427648		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/21/1996	17	5804	344.28	310.656242	33.623758		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/20/1997	18	6168	346.06	313.468494	32.591506		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/19/1999	20	6897	345.03	316.123568	28.906432		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/10/2000	21	7254	346.55	314.923522	31.626478		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/8/2001	22	7617	353.95	313.60198	40.34802		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/19/2002	23	7993	350.18	313.231155	36.948845		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/11/2003	24	8350	349.73	314.412656	35.317344		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	1/18/2006	27	9149	344.84	314.007632	30.832368		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/10/2006	27	9445	341.9	312.755248	29.144752		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/15/2007	28	9815	348.46	312.326949	36.133051		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/15/2008	29	10181	348.64	312.151691	36.488309		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/18/2009	30	10549	355.33	310.973096	44.356904		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	12/3/2010	31	10929	349.04	310.945886	38.094114		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	10/27/2011	32	11257	344.19	309.811887	34.378113		326	375
3527101	6536997.578	20222214.07	57	130	1103113	407592	4	11/13/2012	33	11640	346.66	310.813324	35.846676		326	375
3527104	6535233.23	20217974.27	57	129	1103112	407591	4	5/13/1998	19	6342	342.85	329.872017	12.977983		280	360
3527401	6546812.359	20199265.41	61	129	1427511	511256	7	11/11/1981	2	315	229.25	228.485891	0.764109	-49	-60	445
3527401	6546812.359	20199265.41	61	129	1427511	511256	7	11/17/1983	4	1051	225.27	227.322643	-2.052643	-49	-60	445
3527401	6546812.359	20199265.41	61	129	1427511	511256	7	10/31/1984	5	1400	232.55	227.897884	4.652116	-49	-60	445
3527401	6546812.359	20199265.41	61	129	1427511	511256	7	11/18/1986	7	2148	228.42	225.732152	2.687848	-49	-60	445
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/11/1981	2	315	375.68	336.568035	39.111965		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/19/1982	3	688	374.69	335.172358	39.517642		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/17/1983	4	1051	374.8	335.945707	38.854293		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	10/31/1984	5	1400	375.85	340.707014	35.142986		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/18/1986	7	2148	377.38	331.452951	45.927049		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	2/12/1988	9	2599	380.9	334.344845	46.555155		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/10/1988	9	2871	377.76	341.058665	36.701335		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	10/19/1989	10	3214	374.37	344.022233	30.347767		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/13/1990	11	3604	382.8	341.404756	41.395244		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	12/11/1991	12	3997	383.05	339.093608	43.956392		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/18/1992	13	4340	377.35	344.195553	33.154447		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	12/14/1993	14	4731	377.98	337.707643	40.272357		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	1/27/1995	16	5140	383	334.261024	48.738976		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/11/1995	16	5428	373.5	340.070115	33.429885		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/21/1996	17	5804	376.43	334.437266	41.992734		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/20/1997	18	6168	378.53	339.538788	38.991212		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/12/1998	19	6525	380.65	339.869225	40.780775		345	390

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/19/1999	20	6897	376.8	344.69245	32.10755		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/10/2000	21	7254	382.4	343.833033	38.566967		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/8/2001	22	7617	380.7	341.243333	39.456667		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/19/2002	23	7993	379.42	340.200422	39.219578		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/11/2003	24	8350	377.59	342.442835	35.147165		345	390
3527402	6536105.07	20203215.43	60	128	1105775	408723	4	11/12/2004	25	8717	379.35	342.041397	37.308603		345	390
3527407	6543095.353	20205474.34	60	129	1329954	473864	6	7/6/2000	21	7127	197	213.64517	-16.64517	129	107	397
3527408	6546232.539	20206029.62	60	130	1329955	473865	6	5/10/2000	21	7070	200	214.781195	-14.781195	130	90	340
3528101	6583351.609	20218165.02	61	137	1106698	409076	4	11/13/1981	2	317	269.55	266.641943	2.908057		265	290
3528101	6583351.609	20218165.02	61	137	1106698	409076	4	11/17/1982	3	686	267.95	266.533772	1.416228		265	290
3528101	6583351.609	20218165.02	61	137	1106698	409076	4	11/17/1983	4	1051	270.51	266.661693	3.848307		265	290
3528101	6583351.609	20218165.02	61	137	1106698	409076	4	10/31/1984	5	1400	270.44	267.31472	3.12528		265	290
3528101	6583351.609	20218165.02	61	137	1106698	409076	4	11/18/1986	7	2148	271.02	265.78322	5.23678		265	290
3528202	6594106.825	20216766.5	63	138	1428717	511993	7	11/16/1982	3	685	177	211.614176	-34.614176	-187	-197	330
3528804	6590432.109	20183637.54	68	135	1431711	513464	7	3/18/2010	31	10669	212	221.852662	-9.852662	125	115	360
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	3/21/1981	2	80	282.23	279.068343	3.161657		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/12/1981	2	316	281.19	279.052	2.138		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/17/1982	3	686	279.73	279.017464	0.712536		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/17/1983	4	1051	280.87	279.053789	1.816211		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	10/31/1984	5	1400	279.97	279.250531	0.719469		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/18/1986	7	2148	281.99	278.800244	3.189756		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	2/5/1988	9	2592	282.89	279.08892	3.80108		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	10/18/1988	9	2848	281.8	279.302386	2.497614		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	10/17/1989	10	3212	283.81	279.329243	4.480757		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/14/1990	11	3605	283.19	279.155515	4.034485		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/6/1991	12	3962	283.73	279.099751	4.630249		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/12/1992	13	4334	283.55	279.355726	4.194274		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	12/17/1993	14	4734	283.75	279.003804	4.746196		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/17/1994	15	5069	284.03	278.890654	5.139346		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/15/1995	16	5432	282.73	279.232059	3.497941		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/21/1996	17	5804	282.94	278.885868	4.054132		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/20/1997	18	6168	284.2	279.217937	4.982063		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/12/1998	19	6525	283.55	279.164379	4.385621		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/19/1999	20	6897	283	279.405367	3.594633		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/9/2000	21	7253	282.78	279.257059	3.522941		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/9/2001	22	7618	284.25	279.150577	5.099423		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/15/2002	23	7989	283.55	279.142735	4.407265		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/13/2003	24	8352	282.1	279.247915	2.852085		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/11/2004	25	8716	283.21	279.199389	4.010611		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	1/18/2006	27	9149	279.88	279.189886	0.690114		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	12/4/2007	28	9834	280.71	279.082275	1.627725		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	11/7/2009	30	10538	282.45	278.975967	3.474033		276	310
3529101	6611505.282	20222797.63	63	142	1108887	409885	4	12/4/2010	31	10930	281.37	278.993931	2.376069		276	310
3529303	6644471.706	20223440.06	66	147	1514907	560062	8	4/30/1982	3	485	180	211.575569	-31.575569	-119	-121	400
3529304	6644288.913	20225357.21	66	148	1514908	560063	8	5/21/1982	3	506	217	233.975733	-16.975733	99	98	400
3529602	6643038.328	20202785.93	69	145	1516330	561103	8	2/26/1981	2	57	161	230.233074	-69.233074	-9	-14	451
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	3/20/1981	2	79	281.71	274.656836	7.053164	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/12/1981	2	316	282.25	273.777789	8.472211	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/17/1982	3	686	281.48	272.59835	8.88165	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/18/1983	4	1052	281.77	272.592369	9.177631	90	85	310

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/1/1984	5	1401	281.23	275.811349	5.418651	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	12/7/1985	6	1802	280.01	275.520188	4.489812	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/18/1986	7	2148	281.65	268.165772	13.484228	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	2/6/1988	9	2593	282.23	269.29304	12.93696	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	10/19/1988	9	2849	280.66	274.646201	6.013799	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	10/18/1989	10	3213	281.72	276.98348	4.73652	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/15/1990	11	3606	281.74	275.045154	6.694846	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/12/1992	13	4334	281.72	277.22347	4.49653	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	12/17/1993	14	4734	281.55	272.366635	9.183365	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/17/1994	15	5069	282.86	269.586157	13.273843	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/15/1995	16	5432	281.18	274.76029	6.41971	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/21/1996	17	5804	281.24	270.353844	10.886156	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/20/1997	18	6168	280.57	274.150845	6.419155	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/12/1998	19	6525	279.34	274.604746	4.735254	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/13/1999	20	6891	278.9	278.437227	0.462773	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/9/2000	21	7253	276.45	277.480754	-1.030754	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/9/2001	22	7618	276.7	275.903423	0.796577	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/15/2002	23	7989	275.05	275.014767	0.035233	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/13/2003	24	8352	273.73	276.558825	-2.828825	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/11/2004	25	8716	275.08	276.324215	-1.244215	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	1/18/2006	27	9149	272.71	276.9486	-4.2386	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	12/4/2007	28	9834	267.96	274.643303	-6.683303	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	12/10/2008	29	10206	268.67	274.155648	-5.485648	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/3/2009	30	10534	270.72	272.674095	-1.954095	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	12/4/2010	31	10930	265.81	272.115335	-6.305335	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/18/2011	32	11279	262.78	269.961909	-7.181909	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/14/2012	33	11641	260.6	271.404819	-10.804819	90	85	310
3530705	6660100.527	20188648.39	73	147	1518129	562289	8	11/15/2013	34	12007	261.5	276.020468	-14.520468	90	85	310
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/12/1981	2	316	286.09	261.320746	24.769254	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/17/1982	3	686	286.68	260.924893	25.755107	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/17/1983	4	1051	287.45	261.068614	26.381386	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	10/31/1984	5	1400	287.91	262.622644	25.287356	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	12/7/1985	6	1802	287.9	261.588182	26.311818	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/16/1986	7	2146	287.93	259.043698	28.886302	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	2/6/1988	9	2593	288.3	259.977256	28.322744	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	10/16/1988	9	2846	286.87	262.524753	24.345247	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	10/17/1989	10	3212	288.43	263.544576	24.885424	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/15/1990	11	3606	289.91	262.601448	27.308552	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/6/1991	12	3962	286.4	262.042557	24.357443	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/12/1992	13	4334	289.75	263.775411	25.974589	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	12/17/1993	14	4734	289.1	261.539448	27.560552	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/17/1994	15	5069	289.35	260.406176	28.943824	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/14/1995	16	5431	289.4	262.715464	26.684536	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/21/1996	17	5804	287.1	260.707024	26.392976	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/20/1997	18	6168	289.35	262.334031	27.015969	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/12/1998	19	6525	289.03	262.387963	26.642037	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/19/1999	20	6897	288.75	263.949683	24.800317	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/10/2000	21	7254	288.75	263.17991	25.57009	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/9/2001	22	7618	289.74	262.338183	27.401817	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/15/2002	23	7989	289.03	262.088809	26.941191	140	130	315

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/13/2003	24	8352	288.65	262.781936	25.868064	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/11/2004	25	8716	288.42	262.659907	25.760093	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	1/18/2006	27	9149	284.78	262.771168	22.008832	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/10/2006	27	9445	285.99	262.030673	23.959327	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	12/4/2007	28	9834	285.23	261.704484	23.525516	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	12/10/2008	29	10206	284.01	261.595513	22.414487	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/3/2009	30	10534	287.32	260.815564	26.504436	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/18/2011	32	11279	278.58	259.982248	18.597752	140	130	315
3531602	6722363.543	20210546.28	75	159	1518813	562800	8	11/15/2013	34	12007	283.75	262.529206	21.220794	140	130	315
3532102	6733624.239	20227166.4	74	163	1584652	613194	9	11/26/1986	7	2156	260.6	247.153625	13.446375	137	2	302
3532702	6730464.618	20194955.07	79	159	1586067	614379	9	7/19/2003	24	8235	233	242.704639	-9.704639	121	101	291
3533402	6463375.368	20153313.51	61	111	1427493	511238	7	11/17/1988	9	2878	222.99	238.502314	-15.512314	-41	-61	405
3533403	6473023.447	20148278.19	63	112	1513393	559063	8	1/1/1981	2	1	200	225.183805	-25.183805	-341	-346	475
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/11/1981	2	315	205.47	230.819872	-25.349872	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/19/1982	3	688	202.89	228.347447	-25.457447	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/11/1988	9	2872	170.24	218.686596	-48.446596	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	10/20/1989	10	3215	174.32	211.874213	-37.554213	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/13/1990	11	3604	169.4	213.885796	-44.485796	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	12/11/1991	12	3997	166.9	232.704627	-65.804627	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/17/1992	13	4339	170.4	215.994138	-45.594138	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	12/14/1993	14	4731	172.9	228.694526	-55.794526	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	1/28/1995	16	5141	169.72	209.30802	-39.58802	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/11/1995	16	5428	163.15	226.050386	-62.900386	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/21/1996	17	5804	168.26	221.470567	-53.210567	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	10/27/1999	20	6874	152	224.847312	-72.847312	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/11/1999	20	6889	154.95	224.994225	-70.044225	-359	-362	400
3533501	6475388.825	20156495.18	62	113	1512941	558831	8	11/8/2001	22	7617	163.7	220.740466	-57.040466	-359	-362	400
3533503	6480977.888	20154115.37	63	114	1331670	474265	6	1/26/1987	8	2217	300	278.072738	21.927262		110	398
3533504	6480712.063	20154306.08	63	114	1428687	511963	7	10/22/1987	8	2486	222.6	239.360356	-16.760356		-140	398
3533603	6486624.437	20152347.39	63	115	1428688	511964	7	2/18/1984	5	1144	206	234.40005	-28.40005	-37	-255	370
3533915	6489072.91	20145668.52	65	115	1514377	559661	8	11/12/1988	9	2873	299.57	261.379773	38.190227	-230	-230	385
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	10/16/1987	8	2480	224.73	255.083066	-30.353066		-89	290
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	2/12/1988	9	2599	225.7	256.218829	-30.518829		-89	290
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	10/20/1989	10	3215	222.31	258.568086	-36.258086		-89	290
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	11/13/1990	11	3604	222.96	258.480509	-35.520509		-89	290
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	12/11/1991	12	3997	221.6	258.36913	-36.76913		-89	290
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	11/17/1992	13	4339	221.6	260.868699	-39.268699		-89	290
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	12/14/1993	14	4731	221.63	257.353146	-35.723146		-89	290
3534102	6505335.123	20169837.05	62	119	1428113	511679	7	11/21/1996	17	5804	217.76	254.451014	-36.691014		-89	290
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	3/18/1981	2	77	251.84	240.623176	11.216824		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/11/1981	2	315	248.91	239.135332	9.774668		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/19/1982	3	688	247.4	237.231883	10.168117		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/17/1983	4	1051	235.44	239.10625	-3.66625		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	10/30/1984	5	1399	233.22	240.250735	-7.030735		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	12/6/1985	6	1801	216.01	238.311803	-22.301803		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/19/1986	7	2149	219.44	235.640075	-16.200075		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	2/12/1988	9	2599	224.75	234.978557	-10.228557		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/11/1988	9	2872	224.11	232.926621	-8.816621		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/13/1990	11	3604	226.5	241.931303	-15.431303		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	12/11/1991	12	3997	221.53	242.667856	-21.137856		-460	340

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/17/1992	13	4339	221.33	245.33053	-24.00053		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	12/14/1993	14	4731	221.05	240.871804	-19.821804		-460	340
3534403	6499087.458	20155051.29	64	117	1513917	559329	8	11/21/1996	17	5804	222.57	233.703801	-11.133801		-460	340
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	3/18/1981	2	77	252.01	244.787271	7.222729	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/11/1981	2	315	251.88	244.473277	7.406723	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/19/1982	3	688	251.38	243.975517	7.404483	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/17/1983	4	1051	251.01	244.121546	6.888454	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	10/31/1984	5	1400	250.76	244.813746	5.946254	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/19/1986	7	2149	251.27	242.687382	8.582618	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	2/12/1988	9	2599	252.02	243.684518	8.335482	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/12/1988	9	2873	249.2	244.60318	4.59682	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	10/20/1989	10	3215	250.13	244.951215	5.178785	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/13/1990	11	3604	249.94	244.287576	5.652424	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	12/11/1991	12	3997	249.05	244.141154	4.908846	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/18/1992	13	4340	250.1	245.420222	4.679778	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	12/14/1993	14	4731	250	243.489865	6.510135	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/11/1995	16	5428	249.25	244.311442	4.938558	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/21/1996	17	5804	248.03	242.500847	5.529153	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/21/1997	18	6169	248.3	244.039048	4.260952	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/12/1998	19	6525	246.7	243.840797	2.859203	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/19/1999	20	6897	245.8	244.897477	0.902523	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/10/2000	21	7254	245.12	245.246595	-0.126595	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/8/2001	22	7617	244.9	244.934192	-0.034192	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/19/2002	23	7993	243.92	244.587047	-0.667047	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/11/2003	24	8350	242.86	244.997407	-2.137407	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/12/2004	25	8717	242.73	244.785849	-2.055849	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	1/17/2006	27	9148	239.74	244.48856	-4.74856	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/11/2006	27	9446	238.56	243.30442	-4.74442	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/15/2007	28	9815	238.38	244.021195	-5.641195	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/15/2008	29	10181	237.08	243.438344	-6.358344	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	11/18/2009	30	10549	238.67	243.631074	-4.961074	6	0	320
3535402	6544324.252	20163564.42	67	125	1431161	513151	7	12/3/2010	31	10929	237.26	242.994873	-5.734873	6	0	320
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	3/18/1981	2	77	283.29	240.600638	42.689362		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/11/1981	2	315	282.49	240.187696	42.302304		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/17/1982	3	686	282.59	239.504797	43.085203		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/17/1983	4	1051	282.88	239.512301	43.367699		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	10/31/1984	5	1400	282.87	240.368522	42.501478		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/17/1986	7	2147	283.16	237.238775	45.921225		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	2/5/1988	9	2592	285.87	238.422768	47.447232		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	10/19/1988	9	2849	283.22	239.97361	43.24639		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	10/17/1989	10	3212	285.73	240.515858	45.214142		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/14/1990	11	3605	284.32	239.262724	45.057276		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/6/1991	12	3962	284.64	239.122421	45.517579		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/10/1992	13	4332	284.1	241.105221	42.994779		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	12/17/1993	14	4734	284.69	238.128867	46.561133		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/17/1994	15	5069	285.05	237.197009	47.852991		250	300
3535501	6561647.674	20159427.63	69	128	1336066	475818	6	11/16/1995	16	5433	283.84	239.494589	44.345411		250	300
3535701	6547276.929	20139375.32	71	124	1433530	514501	7	10/21/1987	8	2485	245.25	250.681793	-5.431793	-88	-107	357
3536104	6576531.742	20168562.74	69	131	1432307	513825	7	8/28/1984	5	1336	254	247.890149	6.109851	-80	-80	380
3536105	6576099.752	20168642.83	69	131	1432307	513825	7	7/30/1992	13	4229	180	211.367227	-31.367227	-67	-87	380

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3536206	6589422.35	20167569.9	70	133	1516777	561347	8	3/21/1981	2	80	244.09	241.380608	2.709392	90	85	385
3536206	6589422.35	20167569.9	70	133	1516777	561347	8	11/11/1981	2	315	244.67	240.385126	4.284874	90	85	385
3536601	6603961.045	20160986.1	73	135	1434847	515299	7	10/31/1984	5	1400	255.72	252.69685	3.02315		116	336
3536801	6590513.384	20136397.81	76	131	1519097	563002	8	9/2/2009	30	10472	235.8	240.005512	-4.205512		46	346
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	9/2/2009	30	10472	217	241.690043	-24.690043		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	10/2/2010	31	10867	219	240.366175	-21.366175		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	3/8/2011	32	11024	218.8	239.135084	-20.335084		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	5/5/2011	32	11082	218.8	238.623677	-19.823677		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	8/31/2011	32	11200	216.6	238.039606	-21.439606		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	11/15/2011	32	11276	216.6	237.799166	-21.199166		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	3/7/2012	33	11389	217	238.580113	-21.580113		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	6/19/2012	33	11493	215	239.143261	-24.143261		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	9/13/2012	33	11579	215	239.370511	-24.370511		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	12/8/2012	33	11665	217.1	239.508082	-22.408082		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	3/20/2013	34	11767	219.2	240.82817	-21.62817		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	6/22/2013	34	11861	218.2	241.671839	-23.471839		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	9/12/2013	34	11943	217.4	242.13796	-24.73796		14	274
3536802	6598452.15	20138247.69	76	132	1519101	563006	8	12/18/2013	34	12040	218.2	242.527577	-24.327577		14	274
3536803	6592778.307	20139489.53	75	131	1518764	562751	8	5/2/2009	30	10349	202.7	230.793942	-28.093942		-47	263
3536803	6592778.307	20139489.53	75	131	1518764	562751	8	9/2/2009	30	10472	203.3	230.969774	-27.669774		-47	263
3536804	6596869.975	20137835.24	76	132	1519101	563006	8	5/2/2009	30	10349	216.5	234.400275	-17.900275		-20	300
3536804	6596869.975	20137835.24	76	132	1519101	563006	8	9/2/2009	30	10472	217.4	234.659417	-17.259417		-20	300
3536805	6595117.491	20137749.08	76	131	1519098	563003	8	9/2/2009	30	10472	211.9	227.282404	-15.382404		-7	343
3536806	6601850.839	20144741.54	75	133	1584871	613373	9	5/2/2009	30	10349	194	227.744834	-33.744834		-83	237
3536806	6601850.839	20144741.54	75	133	1584871	613373	9	9/2/2009	30	10472	194.1	227.779759	-33.679759		-83	237
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/12/1981	2	316	266.4	264.281407	2.118593		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/17/1982	3	686	270.19	263.194343	6.995657		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/17/1983	4	1051	268.04	263.169588	4.870412		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/1/1984	5	1401	269.73	265.971609	3.758391		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	12/7/1985	6	1802	266.51	263.714829	2.795171		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/16/1986	7	2146	266.74	258.773994	7.966006		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	2/5/1988	9	2592	267.95	259.986421	7.963579		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	10/19/1988	9	2849	266.83	264.833819	1.996181		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/14/1990	11	3605	267.67	265.154355	2.515645		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/6/1991	12	3962	266.7	263.846236	2.853764		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/13/1992	13	4335	263.7	267.58482	-3.88482		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	12/17/1993	14	4734	266.52	262.423553	4.096447		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/17/1994	15	5069	267.3	260.340913	6.959087		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/15/1995	16	5432	266.05	265.243509	0.806491		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/21/1996	17	5804	265.13	260.826696	4.303304		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/20/1997	18	6168	265.35	264.47923	0.87077		45	345
3537201	6638351.003	20171929.6	74	142	1518454	562530	8	11/13/1999	20	6891	261.8	268.650945	-6.850945		45	345
3537604	6652158.862	20161375	77	143	1585409	613836	9	1/20/1986	7	1846	238.5	249.615589	-11.115589	-6	-7	350
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/12/1981	2	316	238.6	244.588852	-5.988852		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/17/1982	3	686	237.74	246.571531	-8.831531		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/17/1983	4	1051	235.32	246.987791	-11.667791		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/1/1984	5	1401	233.91	248.54111	-14.63111		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	12/7/1985	6	1802	232.93	246.667086	-13.737086		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/16/1986	7	2146	233.45	243.405989	-9.955989		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	2/6/1988	9	2593	234.33	244.288191	-9.958191		85	285

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	10/19/1988	9	2849	233.58	246.72324	-13.14324		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	10/17/1989	10	3212	234.66	248.303905	-13.643905		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/14/1990	11	3605	233.97	246.460347	-12.490347		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/6/1991	12	3962	233.1	244.92656	-11.82656		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/13/1992	13	4335	230.85	245.466384	-14.616384		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	12/17/1993	14	4734	232.07	241.67958	-9.60958		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/17/1994	15	5069	231.4	240.736018	-9.336018		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/15/1995	16	5432	230.43	243.526079	-13.096079		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/21/1996	17	5804	230.6	239.292201	-8.692201		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/20/1997	18	6168	228.86	241.836746	-12.976746		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/12/1998	19	6525	227.91	243.277018	-15.367018		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/13/1999	20	6891	227.7	247.071611	-19.371611		85	285
3537801	6633667.57	20149287.28	77	139	1585405	613832	9	11/9/2000	21	7253	224.45	245.196354	-20.746354		85	285
3538402	6659190.696	20167918.37	77	145	1519480	563294	8	3/20/1981	2	79	305.42	269.140682	36.279318		90	340
3538402	6659190.696	20167918.37	77	145	1519480	563294	8	11/12/1981	2	316	306.94	268.56204	38.37796		90	340
3538402	6659190.696	20167918.37	77	145	1519480	563294	8	11/17/1982	3	686	306.37	267.763004	38.606996		90	340
3538402	6659190.696	20167918.37	77	145	1519480	563294	8	11/17/1983	4	1051	305.95	267.843336	38.106664		90	340
3538608	6683189.557	20167529.91	79	149	1520324	563879	8	12/1/1993	14	4718	271	272.959709	-1.959709	54	54	344
3539502	6714914.348	20166854.97	82	154	1587196	615360	9	12/4/1993	14	4721	287	285.59035	1.40965	79	79	363
3540105	6732955.768	20183528.15	81	158	1586747	614942	9	1/5/1983	4	735	185	215.078922	-30.078922	113	98	280
3540107	6733343.457	20187503.36	80	159	1586417	614664	9	5/12/2006	27	9263	169.7	223.747544	-54.047544	70	70	250
3540108	6731771.283	20183262.12	81	158	1586747	614942	9	4/28/1982	3	483	185	229.122113	-44.122113	113	80	290
3540109	6728580.435	20183700.97	80	158	1586413	614660	9	11/12/1983	4	1046	184	216.135863	-32.135863	83	82	260
3540110	6736241.462	20186137.09	81	159	1586749	614944	9	9/1/1981	2	244	205	231.809174	-26.809174	82	77	225
3540111	6735169.174	20185369.87	81	159	1586748	614943	9	9/26/1987	8	2460	160	201.931502	-41.931502	93	15	235
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/12/1981	2	316	237.08	260.762488	-23.682488	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/17/1982	3	686	237.43	260.488335	-23.058335	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/17/1983	4	1051	235.22	260.563245	-25.343245	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/1/1984	5	1401	236.62	261.619417	-24.999417	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	12/7/1985	6	1802	235.96	260.87709	-24.91709	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/16/1986	7	2146	236.12	259.26318	-23.14318	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	2/6/1988	9	2593	237.57	260.135989	-22.565989	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	10/16/1988	9	2846	235.16	261.632806	-26.472806	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	10/17/1989	10	3212	237.61	262.215387	-24.605387	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/16/1990	11	3607	235.92	261.678869	-25.758869	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/6/1991	12	3962	238.76	261.351057	-22.591057	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/12/1992	13	4334	238.03	262.374947	-24.344947	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	12/17/1993	14	4734	238.48	261.011161	-22.531161	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/17/1994	15	5069	238.08	260.31152	-22.23152	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/14/1995	16	5431	238.37	261.828996	-23.458996	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/21/1996	17	5804	237.87	260.456625	-22.586625	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/20/1997	18	6168	236	261.614424	-25.614424	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/12/1998	19	6525	238.35	261.61107	-23.26107	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/10/2000	21	7254	236.99	262.095628	-25.105628	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/9/2001	22	7618	237.99	261.611627	-23.621627	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/15/2002	23	7989	237.26	261.42891	-24.16891	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/13/2003	24	8352	237.92	261.775325	-23.855325	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/11/2004	25	8716	239.29	261.753632	-22.463632	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	1/18/2006	27	9149	236.53	261.860716	-25.330716	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/10/2006	27	9445	235.39	261.456291	-26.066291	135	135	280

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	12/4/2007	28	9834	235.37	261.299019	-25.929019	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	12/10/2008	29	10206	235.99	261.209069	-25.219069	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/3/2009	30	10534	238.4	260.708023	-22.308023	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	12/2/2010	31	10928	236.63	260.648796	-24.018796	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/18/2011	32	11279	234.24	260.104186	-25.864186	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/14/2012	33	11641	234.1	260.572894	-26.472894	135	135	280
3540507	6746344.875	20170148.6	84	159	1522911	565448	8	11/15/2013	34	12007	234.03	261.781654	-27.751654	135	135	280
3541102	6471935.162	20117616.27	68	109	1431673	513426	7	7/17/1981	2	198	266.4	279.950241	-13.550241		192	465
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	2/2/2006	27	9164	294.6	285.685376	8.914624		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	3/2/2006	27	9192	294.9	285.556426	9.343574		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	4/6/2006	27	9227	294.1	285.002769	9.097231		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	5/4/2006	27	9255	293.6	284.585486	9.014514		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	6/2/2006	27	9284	293.8	284.351938	9.448062		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	7/4/2006	27	9316	292.8	283.727233	9.072767		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	8/2/2006	27	9345	291.3	282.978556	8.321444		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	9/2/2006	27	9376	290.6	282.44928	8.15072		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	10/3/2006	27	9407	290.4	282.077099	8.322901		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	11/2/2006	27	9437	290.6	281.847999	8.752001		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	12/2/2006	27	9467	291.7	281.888899	9.811101		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	1/3/2007	28	9499	291.7	281.588546	10.111454		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	2/2/2007	28	9529	291.8	281.570043	10.229957		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	3/2/2007	28	9557	292	281.590021	10.409979		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	4/3/2007	28	9589	292.2	281.615158	10.584842		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	5/2/2007	28	9618	292	281.537528	10.462472		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	6/2/2007	28	9649	292	281.539553	10.460447		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	7/3/2007	28	9680	291.6	281.42441	10.17559		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	8/2/2007	28	9710	291.6	281.450895	10.149105		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	9/4/2007	28	9743	291.2	281.360028	9.839972		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	10/2/2007	28	9771	291	281.328344	9.671656		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	11/2/2007	28	9802	290.6	281.247198	9.352802		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	12/4/2007	28	9834	291.2	281.467305	9.732695		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	1/3/2008	29	9864	290.6	281.320245	9.279755		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	2/2/2008	29	9894	290.2	281.098021	9.101979		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	3/4/2008	29	9925	291.8	281.468689	10.331311		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	4/2/2008	29	9954	290.9	281.091585	9.808415		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	5/1/2008	29	9983	290.9	280.979642	9.920358		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	6/1/2008	29	10014	290.8	280.822746	9.977254		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	7/1/2008	29	10044	289.6	280.339608	9.260392		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	8/1/2008	29	10075	288.6	279.908499	8.691501		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	9/1/2008	29	10106	289.9	280.167389	9.732611		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	10/1/2008	29	10136	289.6	279.952106	9.647894		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	11/1/2008	29	10167	290.4	280.066097	10.333903		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	12/1/2008	29	10197	290.4	279.944152	10.455848		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	1/1/2009	30	10228	290.1	279.728143	10.371857		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	2/1/2009	30	10259	290.2	279.787058	10.412942		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	3/1/2009	30	10287	290.2	279.801624	10.398376		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	4/2/2009	30	10319	290.9	280.003822	10.896178		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	5/2/2009	30	10349	290.4	279.84433	10.55567		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	6/2/2009	30	10380	289.9	279.681499	10.218501		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	7/2/2009	30	10410	289.3	279.488976	9.811024		180	460

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	9/2/2009	30	10472	288.6	279.251121	9.348879		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	10/2/2009	30	10502	289.4	279.476733	9.923267		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	11/3/2009	30	10534	290.6	279.81944	10.78056		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	12/3/2009	30	10564	291.4	280.043228	11.356772		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	1/13/2010	31	10605	289.6	279.421461	10.178539		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	2/4/2010	31	10627	290.4	279.530353	10.869647		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	3/3/2010	31	10654	291	279.551702	11.448298		180	460
3541402	6470351.723	20101528.4	70	107	1432874	514122	7	4/6/2010	31	10688	290.7	279.266081	11.433919		180	460
3541501	6486608.134	20107947.61	71	111	1433517	514488	7	11/13/1981	2	317	302.27	292.756967	9.513033		29	478
3541501	6486608.134	20107947.61	71	111	1433517	514488	7	11/20/1982	3	689	300.48	289.484992	10.995008		29	478
3541501	6486608.134	20107947.61	71	111	1433517	514488	7	11/19/1983	4	1053	303.26	288.54346	14.71654		29	478
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/13/1981	2	317	397.78	301.267584	96.512416		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/20/1982	3	689	388.64	298.174628	90.465372		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/19/1983	4	1053	366.21	297.433231	68.776769		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/10/1984	5	1410	403	301.312703	101.6873		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/6/1985	6	1771	386.22	299.663828	86.556172		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/6/1986	7	2136	389.11	292.095858	97.014142		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/11/1987	8	2506	360.88	289.567484	71.312516		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/10/1988	9	2871	368.95	293.821399	75.128601		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	10/14/1989	10	3209	385.2	297.778618	87.421382		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/13/1990	11	3604	426.28	299.535249	126.74475		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	12/11/1991	12	3997	431.26	300.194823	131.06518		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/18/1992	13	4340	402.47	305.809043	96.660957		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	12/14/1993	14	4731	420.64	300.177548	120.46245		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/18/1994	15	5070	429.1	293.992851	135.10715		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/16/1995	16	5433	388.25	296.497672	91.752328		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/22/1996	17	5805	383.62	290.68389	92.93611		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/21/1997	18	6169	393.85	292.909742	100.94026		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	12/17/1998	19	6560	431.55	294.546772	137.00323		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/11/1999	20	6889	366.7	301.002201	65.697799		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	12/21/2000	21	7295	372.4	306.284423	66.115577		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/7/2001	22	7616	425.7	303.474722	122.22528		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/14/2002	23	7988	389.9	300.058589	89.841411		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/12/2003	24	8351	358.85	300.655314	58.194686		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	12/3/2004	25	8738	417.49	301.649746	115.84025		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/14/2006	27	9449	375.31	300.607391	74.702609		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/15/2007	28	9815	377.84	299.564117	78.275883		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/22/2008	29	10188	412.69	298.21693	114.47307		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/20/2009	30	10551	425.94	296.774115	129.16589		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/17/2010	31	10913	380.17	294.837139	85.332861		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	10/26/2011	32	11256	369.83	289.438572	80.391428		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/13/2012	33	11640	398.93	288.562503	110.3675		350	440
3541601	6494394.429	20102730.58	72	112	1434157	514846	7	11/14/2013	34	12006	390.42	295.3835	95.0365		350	440
3541602	6500444.891	20114667.71	71	114	1433520	514491	7	7/17/1981	2	198	238	276.610055	-38.610055		-68	395
3541603	6500444.891	20114667.71	71	114	1517211	561606	8	7/17/1981	2	198	267.9	245.136974	22.763026		-253	395
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/16/2010	31	10639	236.8	237.57133	-0.77133	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/2/2010	31	10806	233.5	234.966089	-1.466089	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/16/2010	31	10851	232.4	234.572713	-2.172713	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/11/2010	31	10876	234.42	234.397	0.023	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/16/2010	31	10881	234.42	234.364739	0.055261	-19	-17	403

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/21/2010	31	10886	234.57	234.332478	0.237522	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/26/2010	31	10891	234.89	234.300217	0.589783	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/31/2010	31	10896	234.78	234.267955	0.512045	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/6/2010	31	10902	234.92	234.229242	0.690758	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/11/2010	31	10907	235.04	234.196981	0.843019	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/16/2010	31	10912	235.17	234.16472	1.00528	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/21/2010	31	10917	235.13	234.132459	0.997541	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/26/2010	31	10922	235.26	234.100198	1.159802	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/1/2010	31	10927	235.26	234.067937	1.192063	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/6/2010	31	10932	235.24	234.035676	1.204324	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/11/2010	31	10937	235.34	234.003414	1.336586	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/16/2010	31	10942	235.42	233.971153	1.448847	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/21/2010	31	10947	235.42	233.938892	1.481108	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/26/2010	31	10952	235.22	233.906631	1.313369	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/31/2010	31	10957	235.23	233.87437	1.35563	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/6/2011	32	10963	235.22	233.609628	1.610372	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/11/2011	32	10968	235.28	233.294831	1.985169	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/16/2011	32	10973	235.32	232.980034	2.339966	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/21/2011	32	10978	235.68	232.665237	3.014763	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/26/2011	32	10983	235.7	232.35044	3.34956	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/31/2011	32	10988	235.76	232.035643	3.724357	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/6/2011	32	10994	235.72	231.657887	4.062113	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/11/2011	32	10999	235.48	231.34309	4.13691	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/16/2011	32	11004	235.61	231.028293	4.581707	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/21/2011	32	11009	235.65	230.739571	4.910429	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/26/2011	32	11014	235.55	230.561841	4.988159	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/6/2011	32	11022	235.56	230.277473	5.282527	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/11/2011	32	11027	235.39	230.099743	5.290257	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/16/2011	32	11032	235.4	229.922013	5.477987	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/21/2011	32	11037	235.32	229.744283	5.575717	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/26/2011	32	11042	235.49	229.566553	5.923447	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/31/2011	32	11047	235.48	229.388823	6.091177	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/6/2011	32	11053	235.49	229.175547	6.314453	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/11/2011	32	11058	235.54	228.997817	6.542183	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/16/2011	32	11063	235.9	228.820087	7.079913	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/21/2011	32	11068	235.76	228.653373	7.106627	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/26/2011	32	11073	235.62	228.526048	7.093952	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/1/2011	32	11078	235.67	228.398723	7.271277	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/6/2011	32	11083	235.53	228.271398	7.258602	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/11/2011	32	11088	235.53	228.144073	7.385927	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/16/2011	32	11093	235.19	228.016748	7.173252	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/21/2011	32	11098	235.21	227.889423	7.320577	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/26/2011	32	11103	235.39	227.762097	7.627903	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/31/2011	32	11108	235.34	227.634772	7.705228	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/6/2011	32	11114	234.91	227.481982	7.428018	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/11/2011	32	11119	234.83	227.354657	7.475343	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/16/2011	32	11124	234.54	227.227332	7.312668	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/21/2011	32	11129	234.23	227.100007	7.129993	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/26/2011	32	11134	233.92	226.972682	6.947318	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/1/2011	32	11139	233.58	226.853362	6.726638	-19	-17	403

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/6/2011	32	11144	233.48	226.753401	6.726599	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/11/2011	32	11149	233.31	226.653439	6.656561	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/16/2011	32	11154	233.2	226.553478	6.646522	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/21/2011	32	11159	233.05	226.453516	6.596484	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/26/2011	32	11164	232.91	226.353554	6.556446	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/31/2011	32	11169	232.36	226.253593	6.106407	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/6/2011	32	11175	231.74	226.133639	5.606361	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/11/2011	32	11180	231.18	226.033677	5.146323	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/16/2011	32	11185	230.78	225.933716	4.846284	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/21/2011	32	11190	230.65	225.833754	4.816246	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/26/2011	32	11195	231.02	225.733793	5.286207	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/31/2011	32	11200	230.88	225.633831	5.246169	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/6/2011	32	11206	230.97	225.513877	5.456123	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/11/2011	32	11211	229.7	225.413916	4.286084	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/16/2011	32	11216	229.3	225.313954	3.986046	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/21/2011	32	11221	229.37	225.213992	4.156008	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/26/2011	32	11226	229.37	225.127887	4.242113	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/1/2011	32	11231	229.14	225.046613	4.093387	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/6/2011	32	11236	228.86	224.96534	3.89466	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/11/2011	32	11241	228.64	224.884067	3.755933	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/16/2011	32	11246	228.49	224.802794	3.687206	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/21/2011	32	11251	228.35	224.721521	3.628479	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/26/2011	32	11256	230.25	224.640248	5.609752	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/31/2011	32	11261	228.76	224.558975	4.201025	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/6/2011	32	11267	228.95	224.461447	4.488553	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/11/2011	32	11272	228.83	224.380174	4.449826	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/16/2011	32	11277	229.1	224.298901	4.801099	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/21/2011	32	11282	228.57	224.217628	4.352372	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/6/2011	32	11297	229.03	223.973809	5.056191	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/11/2011	32	11302	229.17	223.892536	5.277464	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/16/2011	32	11307	230.12	223.811263	6.308737	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/21/2011	32	11312	230.03	223.72999	6.30001	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/26/2011	32	11317	234.19	223.648717	10.541283	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/31/2011	32	11322	230	223.567444	6.432556	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/6/2012	33	11328	228.87	223.685722	5.184278	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/11/2012	33	11333	230.24	223.874207	6.365793	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/16/2012	33	11369	231.87	225.231296	6.638704	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/21/2012	33	11374	231.95	225.39923	6.55077	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/26/2012	33	11379	231.94	225.479686	6.460314	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/29/2012	33	11382	231.94	225.527959	6.412041	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/11/2012	33	11393	232.11	225.704963	6.405037	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/16/2012	33	11398	232.17	225.785419	6.384581	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/21/2012	33	11403	232.27	225.865875	6.404125	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/26/2012	33	11408	232.23	225.946331	6.283669	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/31/2012	33	11413	232.29	226.026787	6.263213	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/6/2012	33	11419	232.08	226.123334	5.956666	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/11/2012	33	11424	231.96	226.20379	5.75621	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/16/2012	33	11429	232.23	226.284247	5.945753	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/21/2012	33	11434	232.03	226.349896	5.680104	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/26/2012	33	11439	231.99	226.394975	5.595025	-19	-17	403

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/1/2012	33	11444	231.59	226.440054	5.149946	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/6/2012	33	11449	231.9	226.485134	5.414866	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/11/2012	33	11454	233.61	226.530213	7.079787	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/16/2012	33	11490	232.19	226.854785	5.335215	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/21/2012	33	11495	232.07	226.899864	5.170136	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/26/2012	33	11500	231.98	226.944944	5.035056	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/1/2012	33	11505	231.9	226.982339	4.917661	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/6/2012	33	11510	231.72	227.011818	4.708182	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/11/2012	33	11515	231.76	227.041298	4.718702	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/16/2012	33	11520	231.56	227.070778	4.489222	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/21/2012	33	11525	231.39	227.100257	4.289743	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/26/2012	33	11530	231.37	227.129737	4.240263	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/31/2012	33	11535	231.24	227.159216	4.080784	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/6/2012	33	11541	230.97	227.194592	3.775408	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/11/2012	33	11546	230.82	227.224072	3.595928	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/16/2012	33	11551	230.74	227.253551	3.486449	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/21/2012	33	11556	230.96	227.283031	3.676969	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/26/2012	33	11561	230.81	227.31251	3.49749	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/31/2012	33	11566	230.36	227.34199	3.01801	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/6/2012	33	11572	230.71	227.377365	3.332635	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/11/2012	33	11577	230.46	227.406845	3.053155	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/16/2012	33	11582	226.66	227.436325	-0.776325	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/21/2012	33	11587	226.45	227.465804	-1.015804	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/26/2012	33	11592	228.55	227.487485	1.062515	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/1/2012	33	11597	229.34	227.508681	1.831319	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/6/2012	33	11602	229.76	227.529876	2.230124	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/11/2012	33	11607	229.67	227.551072	2.118928	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/16/2012	33	11612	230.27	227.572268	2.697732	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/21/2012	33	11617	230.32	227.593463	2.726537	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/26/2012	33	11622	228.11	227.614659	0.495341	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/31/2012	33	11627	226.08	227.635855	-1.555855	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/6/2012	33	11633	230.34	227.661289	2.678711	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/8/2012	33	11635	230.3	227.669768	2.630232	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/11/2012	33	11638	230.34	227.682485	2.657515	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/16/2012	33	11643	230.46	227.703681	2.756319	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/26/2012	33	11653	230.21	227.746072	2.463928	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/1/2012	33	11658	230.32	227.767268	2.552732	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/6/2012	33	11663	230.25	227.788463	2.461537	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/11/2012	33	11668	230.23	227.809659	2.420341	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/16/2012	33	11673	230.14	227.830855	2.309145	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/21/2012	33	11678	230.18	227.85205	2.32795	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/26/2012	33	11683	229.99	227.873246	2.116754	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/31/2012	33	11688	230.02	227.894442	2.125558	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/6/2013	34	11694	229.92	228.125398	1.794602	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/11/2013	34	11699	229.78	228.352115	1.427885	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/16/2013	34	11704	229.98	228.578832	1.401168	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/21/2013	34	11709	230.01	228.805549	1.204451	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/26/2013	34	11714	229.92	229.032266	0.887734	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	1/31/2013	34	11719	229.74	229.258982	0.481018	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/6/2013	34	11725	229.87	229.531043	0.338957	-19	-17	403

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/11/2013	34	11730	229.6	229.75776	-0.15776	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/16/2013	34	11735	229.74	229.984477	-0.244477	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/21/2013	34	11740	229.7	230.182803	-0.482803	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	2/26/2013	34	11745	229.51	230.336766	-0.826766	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/1/2013	34	11748	231.17	230.429145	0.740855	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/6/2013	34	11753	230.88	230.583108	0.296892	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/11/2013	34	11758	231.11	230.737072	0.372928	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/16/2013	34	11763	231.02	230.891035	0.128965	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/21/2013	34	11768	231.05	231.044999	0.005001	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/26/2013	34	11773	231.07	231.198963	-0.128963	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	3/31/2013	34	11778	231.14	231.352926	-0.212926	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/6/2013	34	11784	231.09	231.537683	-0.447683	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/9/2013	34	11787	231.15	231.630061	-0.480061	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/11/2013	34	11789	231.15	231.691646	-0.541646	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/16/2013	34	11794	231.15	231.84561	-0.69561	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/21/2013	34	11799	231.12	231.987395	-0.867395	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	4/26/2013	34	11804	231.12	232.112263	-0.992263	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/1/2013	34	11809	231.17	232.237131	-1.067131	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/6/2013	34	11814	231.06	232.361999	-1.301999	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/11/2013	34	11819	231.13	232.486867	-1.356867	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/16/2013	34	11824	231.11	232.611736	-1.501736	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/21/2013	34	11829	231.13	232.736604	-1.606604	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/26/2013	34	11834	231.18	232.861472	-1.681472	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	5/31/2013	34	11839	231.21	232.98634	-1.77634	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/6/2013	34	11845	231.05	233.136181	-2.086181	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/11/2013	34	11850	231	233.261049	-2.261049	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/16/2013	34	11855	230.62	233.385917	-2.765917	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/21/2013	34	11860	230.66	233.510785	-2.850785	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	6/26/2013	34	11865	230.34	233.635654	-3.295654	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/1/2013	34	11870	230.31	233.751104	-3.441104	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/6/2013	34	11875	230.27	233.856852	-3.586852	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/11/2013	34	11880	230.18	233.9626	-3.7826	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/16/2013	34	11885	230.05	234.068349	-4.018349	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/21/2013	34	11890	229.81	234.174097	-4.364097	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/26/2013	34	11895	229.5	234.279845	-4.779845	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	7/31/2013	34	11900	229.34	234.385594	-5.045594	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/6/2013	34	11906	229.19	234.512492	-5.322492	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/11/2013	34	11911	229.15	234.61824	-5.46824	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/16/2013	34	11916	229.02	234.723988	-5.703988	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/21/2013	34	11921	228.99	234.829737	-5.839737	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/26/2013	34	11926	228.87	234.935485	-6.065485	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	8/31/2013	34	11931	228.74	235.041233	-6.301233	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/6/2013	34	11937	228.55	235.168131	-6.618131	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/11/2013	34	11942	228.34	235.27388	-6.93388	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/16/2013	34	11947	228.05	235.379628	-7.329628	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/21/2013	34	11952	227.91	235.485376	-7.575376	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	9/26/2013	34	11957	228.18	235.575899	-7.395899	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/1/2013	34	11962	228.34	235.665473	-7.325473	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/6/2013	34	11967	228.38	235.755047	-7.375047	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/11/2013	34	11972	228.36	235.844622	-7.484622	-19	-17	403

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/16/2013	34	11977	228.37	235.934196	-7.564196	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/21/2013	34	11982	228.52	236.02377	-7.50377	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/26/2013	34	11987	228.44	236.113345	-7.673345	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	10/31/2013	34	11992	228.53	236.202919	-7.672919	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/6/2013	34	11998	228.98	236.310409	-7.330409	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/11/2013	34	12003	228.91	236.399983	-7.489983	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/14/2013	34	12006	228.7	236.453728	-7.753728	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/16/2013	34	12008	228.89	236.489557	-7.599557	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/21/2013	34	12013	228.96	236.579132	-7.619132	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	11/26/2013	34	12018	229.16	236.668706	-7.508706	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/1/2013	34	12023	229.23	236.758281	-7.528281	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/6/2013	34	12028	229.36	236.847855	-7.487855	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/11/2013	34	12033	229.27	236.937429	-7.667429	-19	-17	403
3541604	6501126.751	20103650.09	73	113	1518077	562237	8	12/16/2013	34	12038	229.42	237.027004	-7.607004	-19	-17	403
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	2/16/2010	31	10639	233.8	233.479297	0.320703	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	5/2/2010	31	10714	232.5	231.959665	0.540335	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	8/2/2010	31	10806	230.2	230.523868	-0.323868	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	11/2/2010	31	10898	232.1	230.577689	1.522311	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	3/5/2011	32	11021	232.2	227.673121	4.526879	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	5/6/2011	32	11083	230.6	225.736159	4.863841	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	8/27/2011	32	11196	227.6	223.003111	4.596889	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	10/25/2011	32	11255	226.9	222.032531	4.867469	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	3/8/2012	33	11390	228.4	223.278515	5.121485	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	6/5/2012	33	11479	228.5	224.072799	4.427201	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	9/11/2012	33	11577	227.4	224.198908	3.201092	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	12/7/2012	33	11664	227.1	224.382424	2.717576	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	3/15/2013	34	11762	227	226.58531	0.41469	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	6/12/2013	34	11851	226.6	228.174673	-1.574673	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	9/11/2013	34	11942	224.2	228.866139	-4.666139	-10	-10	442
3541605	6497481.235	20104596.42	72	112	1517668	561933	8	12/13/2013	34	12035	226.2	230.67965	-4.47965	-10	-10	442
3541701	6466453.123	20092937.99	71	106	1433512	514483	7	3/17/1981	2	76	273.37	288.140222	-14.770222	140	130	420
3541701	6466453.123	20092937.99	71	106	1433512	514483	7	11/12/1981	2	316	286.08	285.513734	0.566266	140	130	420
3541701	6466453.123	20092937.99	71	106	1433512	514483	7	11/9/1983	4	1043	277.44	280.093154	-2.653154	140	130	420
3541701	6466453.123	20092937.99	71	106	1433512	514483	7	11/16/1984	5	1416	274.84	281.91554	-7.07554	140	130	420
3541701	6466453.123	20092937.99	71	106	1433512	514483	7	11/6/1985	6	1771	274.53	280.871077	-6.341077	140	130	420
3541808	6484434.478	20086155.23	74	108	1518396	562472	8	3/20/1981	2	79	213.8	212.664656	1.135344	64	-45	546
3541809	6485900.374	20095345.24	73	109	1518073	562233	8	1/1/1981	2	1	167	175.422173	-8.422173	-289	-305	500
3541811	6485857.441	20086929.88	74	109	1518397	562473	8	8/30/1985	6	1703	196	201.580535	-5.580535	56	37	562
3541811	6485857.441	20086929.88	74	109	1518397	562473	8	3/11/1988	9	2627	217.55	197.782626	19.767374	56	37	562
3541901	6489177.672	20096813.51	73	110	1518074	562234	8	3/19/1981	2	78	180.4	193.646596	-13.246596	-159	-175	482
3541905	6498026.478	20096512.07	74	112	1435279	515588	7	3/4/1988	9	2620	307	303.325513	3.674487	-9	-9	415
3541906	6498604.957	20100695.04	73	112	1518076	562236	8	11/7/1987	8	2502	321	249.675167	71.324833	13	13	400
3541906	6498604.957	20100695.04	73	112	1518076	562236	8	3/12/1988	9	2628	252	224.026999	27.973001	13	13	400
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	2/16/2010	31	10639	234	233.910726	0.089274	80	80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	5/2/2010	31	10714	231.1	232.251743	-1.151743	80	80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	11/2/2010	31	10898	231.6	230.449413	1.150587	80	80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	3/5/2011	32	11021	232	226.106884	5.893116	80	80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	5/6/2011	32	11083	231	223.98878	7.01122	80	80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	8/27/2011	32	11196	226.2	221.355926	4.844074	80	80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	10/25/2011	32	11255	226.2	220.266263	5.933737	80	80	379

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	3/8/2012	33	11390	229	221.541032	7.458968		80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	6/15/2012	33	11489	228.4	222.766874	5.633126		80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	9/11/2012	33	11577	227.2	223.334668	3.865332		80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	12/7/2012	33	11664	227	223.726255	3.273745		80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	3/15/2013	34	11762	227.2	227.045582	0.154418		80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	6/12/2013	34	11851	227	229.544463	-2.544463		80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	9/11/2013	34	11942	223.1	231.595352	-8.495352		80	379
3541907	6498655.274	20099237.56	73	112	1518076	562236	8	12/13/2013	34	12035	225.8	233.356452	-7.556452		80	379
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/13/1981	2	317	224.2	241.612273	-17.412273	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/19/1982	3	688	210.14	236.013249	-25.873249	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/19/1983	4	1053	137.56	215.586718	-78.026718	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/10/1984	5	1410	126.56	214.685449	-88.125449	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/11/1987	8	2506	185.18	225.890564	-40.710564	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/12/1988	9	2873	193.36	240.162139	-46.802139	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/14/1990	11	3605	182.3	229.331669	-47.031669	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/11/1991	12	3997	175	228.637739	-53.637739	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	3/25/1993	14	4467	215.6	252.709353	-37.109353	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/15/1993	14	4732	209.1	249.355164	-40.255164	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/19/1994	15	5071	203.55	247.29709	-43.74709	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/18/1998	19	6561	137.21	247.529594	-110.31959	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/11/1999	20	6889	113.5	251.490081	-137.99008	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/10/2000	21	7254	120.05	253.701047	-133.65105	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/8/2001	22	7617	130.15	244.981211	-114.83121	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/14/2002	23	7988	114.2	235.089693	-120.88969	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/12/2003	24	8351	75.23	191.027475	-115.79748	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/2/2004	25	8737	127.6	249.46861	-121.86861	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/7/2005	26	9107	113.46	254.730669	-141.27067	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/7/2005	26	9107	112	254.730669	-142.73067	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	2/2/2006	27	9164	133.2	253.852465	-120.65247	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	3/2/2006	27	9192	121	253.059395	-132.0594	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	4/6/2006	27	9227	121.2	252.302783	-131.10278	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	5/4/2006	27	9255	105.9	251.787876	-145.88788	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	6/2/2006	27	9284	57.6	251.346959	-193.74696	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	7/4/2006	27	9316	50.4	250.87836	-200.47836	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	8/2/2006	27	9345	51.9	250.553948	-198.65395	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	9/2/2006	27	9376	40.5	250.207162	-209.70716	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	10/3/2006	27	9407	60.4	249.889419	-189.48942	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/2/2006	27	9437	86	249.635194	-163.63519	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/2/2006	27	9467	95.9	249.380969	-153.48097	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	1/3/2007	28	9499	87.6	249.143363	-161.54336	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	2/2/2007	28	9529	102.2	249.896172	-147.69617	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	3/2/2007	28	9557	107.2	250.483376	-143.28338	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	4/3/2007	28	9589	91.4	250.915223	-159.51522	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	5/2/2007	28	9618	102	251.231941	-149.23194	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	6/2/2007	28	9649	99.2	251.458942	-152.25894	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	7/3/2007	28	9680	79.9	251.674749	-171.77475	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	8/2/2007	28	9710	107.6	251.797454	-144.19745	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	9/4/2007	28	9743	64.5	251.93243	-187.43243	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	10/2/2007	28	9771	74.5	252.030275	-177.53028	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/2/2007	28	9802	85.4	252.103802	-166.7038	-191	-321	429

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/4/2007	28	9834	96.8	252.179701	-155.3797	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	1/3/2008	29	9864	101.8	252.230551	-150.43055	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	2/2/2008	29	9894	104.6	251.692587	-147.09259	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	3/4/2008	29	9925	108.2	251.225414	-143.02541	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	4/2/2008	29	9954	104.2	250.90405	-146.70405	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	5/1/2008	29	9983	102.6	250.629087	-148.02909	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	6/1/2008	29	10014	75.8	250.404509	-174.60451	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	7/1/2008	29	10044	71.3	250.192558	-178.89256	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	8/1/2008	29	10075	30.2	250.035719	-219.83572	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	9/1/2008	29	10106	88.6	249.87888	-161.27888	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	10/1/2008	29	10136	90	249.740034	-159.74003	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/1/2008	29	10167	96.8	249.624501	-152.8245	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/1/2008	29	10197	108	249.512694	-141.51269	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	1/1/2009	30	10228	96.6	249.397161	-152.79716	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	2/1/2009	30	10259	108.8	250.025788	-141.22579	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	3/1/2009	30	10287	109.2	250.486984	-141.28698	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	4/2/2009	30	10319	116.6	250.788438	-134.18844	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	5/2/2009	30	10349	101	251.001722	-150.00172	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	6/2/2009	30	10380	86.7	251.125824	-164.42582	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	7/2/2009	30	10410	39.6	251.237996	-211.638	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	8/4/2009	30	10443	91.2	251.282152	-160.08215	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	9/2/2009	30	10472	69.2	251.320955	-182.12096	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	10/2/2009	30	10502	91.8	251.348267	-159.54827	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	11/3/2009	30	10534	117	251.34997	-134.34997	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	12/3/2009	30	10564	115.9	251.351566	-135.45157	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	1/13/2010	31	10605	74.6	251.078742	-176.47874	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	2/4/2010	31	10627	111.2	250.529901	-139.3299	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	3/3/2010	31	10654	118	249.964156	-131.96416	-191	-321	429
3542202	6516338.292	20121287.67	71	117	1517214	561609	8	4/6/2010	31	10688	114.5	249.450736	-134.95074	-191	-321	429
3542203	6518495.343	20120983.26	72	117	1517673	561938	8	9/27/1995	16	5383	210	228.027	-18.027	-199	-199	410
3542204	6515796.625	20121870.31	71	117	1517214	561609	8	5/22/2000	21	7082	117	184.739268	-67.739268	-211	-225	429
3542205	6517564.169	20120736.72	72	117	1517673	561938	8	12/19/2003	24	8388	108	174.825078	-66.825078	-219	-219	422
3542205	6517564.169	20120736.72	72	117	1517673	561938	8	12/7/2005	26	9107	90.8	206.134176	-115.33418	-219	-219	422
3542206	6516173.555	20120043.04	72	117	1517673	561938	8	5/2/2009	30	10349	227	243.95222	-16.95222		-182	438
3542206	6516173.555	20120043.04	72	117	1517673	561938	8	7/2/2009	30	10410	225.6	243.698669	-18.098669		-182	438
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	10/2/2010	31	10867	302.7	279.723078	22.976922	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	3/10/2011	32	11026	303	278.774919	24.225081	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	8/27/2011	32	11196	300	277.081938	22.918062	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	10/25/2011	32	11255	299.9	276.607723	23.292277	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	3/8/2012	33	11390	301.7	276.327356	25.372644	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	6/15/2012	33	11489	302.3	276.732716	25.567284	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	9/11/2012	33	11577	302.3	276.999052	25.300948	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	12/7/2012	33	11664	301.5	277.190314	24.309686	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	3/16/2013	34	11763	304.6	278.312509	26.287491	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	6/12/2013	34	11851	303.5	279.529752	23.970248	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	9/11/2013	34	11942	300.1	280.513488	19.586512	149	149	429
3542207	6524040.327	20125196.91	71	118	1433524	514495	7	12/13/2013	34	12035	302.1	281.286849	20.813151	149	149	429
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	5/2/2009	30	10349	225.6	242.409588	-16.809588		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	7/2/2010	31	10775	219.4	238.974113	-19.574113		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	10/2/2010	31	10867	218.6	238.343407	-19.743407		-92	408

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	3/10/2011	32	11026	223.9	238.095254	-14.195254		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	8/17/2011	32	11186	210.7	231.986893	-21.286893		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	3/8/2012	33	11390	216	233.197809	-17.197809		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	6/15/2012	33	11489	215.6	233.743555	-18.143555		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	9/11/2012	33	11577	211	232.703223	-21.703223		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	12/7/2012	33	11664	213.8	233.767167	-19.967167		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	3/16/2013	34	11763	218.6	236.672691	-18.072691		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	6/12/2013	34	11851	217.4	237.58311	-20.18311		-92	408
3542208	6517641.445	20128049.2	70	118	1516762	561332	8	9/11/2013	34	11942	206.8	235.421281	-28.621281		-92	408
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	7/2/2009	30	10410	235.4	252.030763	-16.630763		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	7/2/2010	31	10775	231.9	249.302258	-17.402258		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	11/2/2010	31	10898	230.6	248.559906	-17.959906		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	3/10/2011	32	11026	236.6	245.90799	-9.30799		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	3/8/2012	33	11390	231.9	242.02404	-10.12404		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	6/15/2012	33	11489	230.2	243.032621	-12.832621		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	9/11/2012	33	11577	225	243.536534	-18.536534		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	12/7/2012	33	11664	227.1	243.87007	-16.77007		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	3/15/2013	34	11762	232.2	246.056456	-13.856456		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	6/12/2013	34	11851	230.6	248.024714	-17.424714		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	9/11/2013	34	11942	221	249.591604	-28.591604		102	438
3542209	6516908.59	20119540.15	72	117	1517673	561938	8	12/13/2013	34	12035	225.2	250.88154	-25.68154		102	438
3542404	6503338.605	20105881.46	73	113	1518077	562237	8	4/5/1988	9	2652	215	220.172368	-5.172368	-170	-175	410
3542404	6503338.605	20105881.46	73	113	1518077	562237	8	11/15/1988	9	2876	214.6	218.87537	-4.27537	-170	-175	410
3542405	6503491.085	20106294.34	73	113	1518077	562237	8	4/6/1993	14	4479	223	233.461104	-10.461104	-193	-193	431
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	2/16/2010	31	10639	363.7	318.267767	45.432233		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	7/2/2010	31	10775	358.1	316.139806	41.960194		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	10/2/2010	31	10867	357.4	315.632931	41.767069		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	3/5/2011	32	11021	357.7	314.763893	42.936107		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	5/6/2011	32	11083	356.7	313.747765	42.952235		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	8/27/2011	32	11196	355.3	312.080273	43.219727		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	10/25/2011	32	11255	354.7	311.301914	43.398086		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	3/8/2012	33	11390	356.9	311.291492	45.608508		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	6/15/2012	33	11489	357.7	311.685812	46.014188		196	436
3542406	6504143.385	20107388.66	73	114	1434732	515184	7	9/11/2012	33	11577	356.1	311.374834	44.725166		196	436
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	2/16/2010	31	10639	244.1	241.91004	2.18996		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	7/13/2010	31	10786	246.1	239.566841	6.533159		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	8/2/2010	31	10806	243.1	239.398828	3.701172		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	11/2/2010	31	10898	242	238.716777	3.283223		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	3/5/2011	32	11021	242.2	235.067275	7.132725		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	5/6/2011	32	11083	238.7	233.080468	5.619532		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	3/8/2012	33	11390	239.1	230.41329	8.68671		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	6/15/2012	33	11489	238.6	231.60136	6.99864		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	9/11/2012	33	11577	235.9	232.160301	3.739699		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	12/7/2012	33	11664	236.7	232.540569	4.159431		33	381
3542407	6504896.676	20103723.6	73	113	1518077	562237	8	3/16/2013	34	11763	236.7	235.486094	1.213906		33	381
3542502	6525666.796	20105201.63	75	117	1435943	516134	7	12/17/1987	8	2542	122	250.125198	-128.1252	-36	-56	310
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	2/16/2010	31	10639	224.7	257.018812	-32.318812		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	7/2/2010	31	10775	218.1	255.2639	-37.1639		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	10/2/2010	31	10867	217.8	254.696334	-36.896334		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	3/10/2011	32	11026	221.3	251.876282	-30.576282		-101	399

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	5/6/2011	32	11083	221.2	250.414146	-29.214146		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	8/18/2011	32	11187	213.6	248.57143	-34.97143		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	10/25/2011	32	11255	210.8	247.640907	-36.840907		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	3/8/2012	33	11390	217.3	248.120724	-30.820724		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	6/15/2012	33	11489	217.9	249.22543	-31.32543		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	9/11/2012	33	11577	207	249.743965	-42.743965		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	12/7/2012	33	11664	204.4	250.078053	-45.678053		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	3/16/2013	34	11763	208.2	252.395659	-44.195659		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	6/12/2013	34	11851	214	254.402223	-40.402223		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	9/11/2013	34	11942	210.6	255.97942	-45.37942		-101	399
3542503	6523858.994	20108634.15	74	117	1518405	562481	8	12/13/2013	34	12035	213.3	257.264684	-43.964684		-101	399
3542504	6523566.2	20103004.3	75	116	1435933	516124	7	5/2/2009	30	10349	241.7	291.283209	-49.583209		160	330
3542504	6523566.2	20103004.3	75	116	1435933	516124	7	9/2/2009	30	10472	238.7	290.086677	-51.386677		160	330
3542504	6523566.2	20103004.3	75	116	1435933	516124	7	1/2/2010	31	10594	238.7	289.885436	-51.185436		160	330
3542504	6523566.2	20103004.3	75	116	1435933	516124	7	7/2/2010	31	10775	234.5	288.424631	-53.924631		160	330
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	2/19/2010	31	10642	332.8	307.97217	24.82783		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	8/2/2010	31	10806	331.2	307.487403	23.712597		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	11/2/2010	31	10898	330.4	307.20658	23.19342		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	3/12/2011	32	11028	329.8	305.954611	23.845389		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	5/6/2011	32	11083	329.2	305.166077	24.033923		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	8/18/2011	32	11187	328.3	303.827854	24.472146		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	10/25/2011	32	11255	327.8	303.045583	24.754417		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	3/8/2012	33	11390	328.4	302.672723	25.727277		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	6/15/2012	33	11489	329.2	303.100586	26.099414		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	9/11/2012	33	11577	327.8	303.398538	24.401462		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	12/7/2012	33	11664	328.3	303.639259	24.660741		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	3/16/2013	34	11763	329.2	305.742893	23.457107		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	6/12/2013	34	11851	329.2	307.530457	21.669543		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	9/12/2013	34	11943	328.4	308.937939	19.462061		244	396
3542505	6518590.852	20105406.54	74	116	1339498	476886	6	12/13/2013	34	12035	329	310.041609	18.958391		244	396
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	8/2/2010	31	10806	340.8	293.779225	47.020775		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	11/2/2010	31	10898	340.5	293.461781	47.038219		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	3/10/2011	32	11026	339.6	292.348739	47.251261		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	5/6/2011	32	11083	339.2	291.539094	47.660906		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	8/27/2011	32	11196	339	290.061455	48.938545		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	10/25/2011	32	11255	338.5	289.373354	49.126646		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	3/8/2012	33	11390	338.3	288.732745	49.567255		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	6/15/2012	33	11489	339	289.079199	49.920801		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	9/11/2012	33	11577	338.5	289.360292	49.139708		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	12/7/2012	33	11664	338.3	289.592867	48.707133		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	3/15/2013	34	11762	338.4	291.068025	47.331975		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	6/12/2013	34	11851	339	292.756662	46.243338		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	9/11/2013	34	11942	338.2	294.191561	44.008439		236	411
3542506	6514201.082	20114010.39	72	116	1338173	476429	6	12/13/2013	34	12035	338	295.385004	42.614996		236	411
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	2/16/2010	31	10639	228.5	256.662698	-28.162698		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	8/2/2010	31	10806	224.9	254.676461	-29.776461		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	11/2/2010	31	10898	223.1	254.157864	-31.057864		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	3/10/2011	32	11026	224.6	251.423955	-26.823955		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	5/6/2011	32	11083	224.9	249.938465	-25.038465		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	8/18/2011	32	11187	221	248.068182	-27.068182		30	360

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	10/25/2011	32	11255	218.4	247.123038	-28.723038		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	3/8/2012	33	11390	221.2	247.616386	-26.416386		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	6/15/2012	33	11489	221.9	248.734184	-26.834184		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	9/11/2012	33	11577	215.1	249.257361	-34.157361		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	12/7/2012	33	11664	212.1	249.594919	-37.494919		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	3/16/2013	34	11763	214.2	251.95037	-37.75037		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	6/12/2013	34	11851	217.7	253.985598	-36.285598		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	9/12/2013	34	11943	215.9	255.604152	-39.704152		30	360
3542507	6522731.96	20107618.14	74	117	1518405	562481	8	12/13/2013	34	12035	216.4	256.894837	-40.494837		30	360
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	9/2/2009	30	10472	341.8	310.103207	31.696793		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	2/19/2010	31	10642	344.8	309.650733	35.149267		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	8/2/2010	31	10806	342.7	309.111908	33.588092		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	11/2/2010	31	10898	341.8	308.799904	33.000096		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	3/11/2011	32	11027	340.7	307.471921	33.228079		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	5/6/2011	32	11083	340.4	306.61455	33.78545		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	8/18/2011	32	11187	339.6	305.176433	34.423567		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	10/25/2011	32	11255	339.2	304.331023	34.868977		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	3/8/2012	33	11390	339.8	303.884995	35.915005		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	6/15/2012	33	11489	340.4	304.304853	36.095147		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	9/11/2012	33	11577	338.4	304.606944	33.793056		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	12/7/2012	33	11664	339.8	304.857006	34.942994		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	3/16/2013	34	11763	339.5	307.07466	32.42534		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	6/12/2013	34	11851	340.8	309.009646	31.790354		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	9/12/2013	34	11943	340.1	310.581055	29.518945		90	420
3542508	6516019.08	20103552.68	74	115	1339495	476883	6	12/13/2013	34	12035	340.4	311.840079	28.559921		90	420
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	5/2/2009	30	10349	339.7	303.420631	36.279369		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	9/2/2009	30	10472	338.8	303.026731	35.773269		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	2/19/2010	31	10642	340.3	302.662189	37.637811		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	5/2/2010	31	10714	340.6	302.470902	38.129098		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	8/2/2010	31	10806	339.8	302.209762	37.590238		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	11/2/2010	31	10898	339.3	301.958174	37.341826		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	3/10/2011	32	11026	338.1	300.894218	37.205782		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	5/6/2011	32	11083	337.7	300.153627	37.546373		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	8/18/2011	32	11187	337.3	298.941003	38.358997		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	10/25/2011	32	11255	337	298.236166	38.763834		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	3/8/2012	33	11390	336.7	297.862364	38.837636		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	6/15/2012	33	11489	336.9	298.26698	38.63302		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	9/11/2012	33	11577	336.5	298.548728	37.951272		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	12/7/2012	33	11664	336.3	298.771813	37.528187		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	3/16/2013	34	11763	336.6	300.525848	36.074152		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	6/12/2013	34	11851	336.7	302.099353	34.600647		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	9/12/2013	34	11943	336.2	303.328803	32.871197		243	393
3542509	6520639.11	20109273.63	74	116	1339497	476885	6	12/13/2013	34	12035	335.8	304.278236	31.521764		243	393
3542702	6504983.032	20088927.69	76	112	1519063	562968	8	5/23/1984	5	1239	268	250.046305	17.953695		-9	351
3542702	6504983.032	20088927.69	76	112	1519063	562968	8	3/13/1988	9	2629	246	230.045959	15.954041		-9	351
3542703	6509580.383	20095223.54	75	113	1435901	516092	7	11/9/1987	8	2504	308	308.838236	-0.838236	72	72	438
3542703	6509580.383	20095223.54	75	113	1435901	516092	7	3/13/1988	9	2629	292.75	306.344437	-13.594437	72	72	438
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	9/2/2009	30	10472	330.2	318.29021	11.90979		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	2/19/2010	31	10642	319.3	317.626216	1.673784		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	5/2/2010	31	10714	311.1	317.320712	-6.220712		264	380

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	8/2/2010	31	10806	330.1	316.901819	13.198181		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	11/2/2010	31	10898	329.9	316.498321	13.401679		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	3/5/2011	32	11021	329.1	314.988212	14.111788		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	5/6/2011	32	11083	328.5	313.852248	14.647752		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	8/27/2011	32	11196	327.8	311.974941	15.825059		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	10/25/2011	32	11255	332.7	311.085642	21.614358		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	3/8/2012	33	11390	328.7	310.455404	18.244596		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	6/13/2012	33	11487	328.5	310.84491	17.65509		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	9/11/2012	33	11577	332.3	311.16076	21.13924		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	3/16/2013	34	11763	330.8	314.036519	16.763481		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	6/12/2013	34	11851	329.5	316.405062	13.094938		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	9/12/2013	34	11943	331.8	318.4665	13.3335		264	380
3542704	6508617.918	20091944.94	75	113	1340230	477126	6	12/13/2013	34	12035	328.7	320.199453	8.500547		264	380
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/13/1981	2	317	380.15	331.046135	49.103865		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/20/1982	3	689	378.89	328.763314	50.126686		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/19/1983	4	1053	380.56	329.001821	51.558179		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/10/1984	5	1410	380.6	335.033809	45.566191		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/5/1985	6	1770	379.36	331.630154	47.729846		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/6/1986	7	2136	380.03	321.561192	58.468808		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/12/1988	9	2873	380.16	330.505664	49.654336		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	10/14/1989	10	3209	382.5	334.677238	47.822762		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/13/1990	11	3604	381.31	333.356798	47.953202		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	12/11/1991	12	3997	385	331.475369	53.524631		373	440
3542801	6521324.855	20088068.18	77	115	1341861	477588	6	11/18/1994	15	5070	385.8	323.057076	62.742924		373	440
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	12/13/1987	8	2538	250	307.452197	-57.452197	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	3/13/1988	9	2629	278	310.715409	-32.715409	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	9/2/2010	31	10837	270.5	312.400578	-41.900578	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	12/2/2010	31	10928	270.3	312.102465	-41.802465	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	3/11/2011	32	11027	269.8	310.794127	-40.994127	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	5/6/2011	32	11083	269.7	309.915442	-40.215442	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	8/18/2011	32	11187	268.7	308.459865	-39.759865	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	10/25/2011	32	11255	267.9	307.607366	-39.707366	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	3/8/2012	33	11390	267.9	307.26331	-39.36331	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	6/13/2012	33	11487	267.9	307.718564	-39.818564	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	6/12/2013	34	11851	255.3	312.783501	-57.483501	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	9/12/2013	34	11943	257.7	314.375584	-56.675584	74	34	360
3542802	6517156.904	20101963.68	75	115	1435908	516099	7	12/13/2013	34	12035	259.7	315.638844	-55.938844	74	34	360
3542803	6525301.261	20091093.49	77	116	1519424	563238	8	1/17/1999	20	6591	249	244.151342	4.848658	-8	-20	430
3542803	6525301.261	20091093.49	77	116	1519424	563238	8	8/27/1999	20	6813	241.68	248.946565	-7.266565	-8	-20	430
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	9/2/2010	31	10837	236.6	316.119914	-79.519914		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	12/2/2010	31	10928	237.2	315.83138	-78.63138		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	3/11/2011	32	11027	239	314.498068	-75.498068		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	5/6/2011	32	11083	239.5	313.619813	-74.119813		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	8/18/2011	32	11187	236.6	312.183958	-75.583958		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	10/25/2011	32	11255	234.8	311.348262	-76.548262		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	3/8/2012	33	11390	237.2	311.086751	-73.886751		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	6/15/2012	33	11489	237.2	311.581435	-74.381435		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	9/11/2012	33	11577	221.4	311.909051	-90.509051		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	12/7/2012	33	11664	219	312.172332	-93.172332		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	3/16/2013	34	11763	226.8	314.756581	-87.956581		21	343

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	6/12/2013	34	11851	231.9	316.796687	-84.896687		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	9/12/2013	34	11943	231.1	318.393815	-87.293815		21	343
3542804	6519958.218	20098739.44	75	115	1435921	516112	7	12/13/2013	34	12035	233.7	319.658259	-85.958259		21	343
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	5/2/2009	30	10349	251.5	315.623772	-64.123772		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	9/2/2009	30	10472	248.4	315.021059	-66.621059		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	2/19/2010	31	10642	247.6	314.56627	-66.96627		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	5/2/2010	31	10714	245.6	314.357893	-68.757893		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	9/2/2010	31	10837	244	313.935834	-69.935834		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	12/2/2010	31	10928	243.4	313.634769	-70.234769		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	3/11/2011	32	11027	245	312.299777	-67.299777		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	5/6/2011	32	11083	245.4	311.410906	-66.010906		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	8/18/2011	32	11187	242.6	309.942593	-67.342593		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	10/25/2011	32	11255	241.4	309.08309	-67.68309		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	3/8/2012	33	11390	243.4	308.75438	-65.35438		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	6/13/2012	33	11487	242.9	309.216808	-66.316808		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	9/11/2012	33	11577	214.4	309.546866	-95.146866		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	12/7/2012	33	11664	213.4	309.809099	-96.409099		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	3/16/2013	34	11763	236.4	312.344925	-75.944925		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	3/25/2013	34	11772	240.2	312.585928	-72.385928		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	6/12/2013	34	11851	239.5	314.393009	-74.893009		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	9/12/2013	34	11943	237.8	316.019431	-78.219431		-4	359
3542805	6517356.304	20100452.41	75	115	1435912	516103	7	12/21/2013	34	12043	239.3	317.424042	-78.124042		-4	359
3543101	6541844.068	20131107.58	72	122	1517678	561943	8	10/23/1987	8	2487	330	291.268287	38.731713	-296	-306	442
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	9/2/2009	30	10472	235.6	253.511367	-17.911367		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	2/20/2010	31	10643	237.3	253.409703	-16.109703		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	5/2/2010	31	10714	237	252.875844	-15.875844		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	9/2/2010	31	10837	234.9	251.854223	-16.954223		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	12/2/2010	31	10928	234.2	251.480518	-17.280518		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	3/3/2011	32	11019	234.8	250.618419	-15.818419		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	5/7/2011	32	11084	234.2	249.737577	-15.537577		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	8/20/2011	32	11189	231.2	248.093185	-16.893185		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	11/11/2011	32	11272	229.7	247.221828	-17.521828		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	3/8/2012	33	11390	231.8	248.298369	-16.498369		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	6/13/2012	33	11487	230.9	248.565953	-17.665953		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	9/11/2012	33	11577	229.7	248.469013	-18.769013		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	12/8/2012	33	11665	229.8	248.655233	-18.855233		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	3/20/2013	34	11767	230.2	249.911037	-19.711037		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	6/19/2013	34	11858	229.7	250.657537	-20.957537		-123	300
3543102	6550306.575	20120268.71	75	122	1518741	562728	8	12/18/2013	34	12040	229.2	251.637105	-22.437105		-123	300
3543103	6549663.184	20133011.39	72	123	1517679	561944	8	5/2/2010	31	10714	181.8	217.462303	-35.662303		-137	366
3543201	6551762.569	20126208.3	74	123	1584612	613154	9	3/4/1981	2	63	250.5	253.87895	-3.37895		-245	320
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	2/20/2010	31	10643	211.2	252.281984	-41.081984		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	5/2/2010	31	10714	210.6	251.673788	-41.073788		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	9/2/2010	31	10837	208.8	251.082746	-42.282746		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	12/2/2010	31	10928	208.6	250.843667	-42.243667		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	3/3/2011	32	11019	208.6	249.728761	-41.128761		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	5/7/2011	32	11084	208.2	248.778065	-40.578065		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	8/20/2011	32	11189	204.1	247.723823	-43.623823		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	11/11/2011	32	11272	202.8	247.144493	-44.344493		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	3/8/2012	33	11390	204	247.479878	-43.479878		-310	313

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	6/13/2012	33	11487	201.8	248.239886	-46.439886		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	9/11/2012	33	11577	201.6	248.643772	-47.043772		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	12/8/2012	33	11665	200.6	248.876551	-48.276551		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	3/20/2013	34	11767	202.6	250.163828	-47.563828		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	6/19/2013	34	11858	202.8	251.365	-48.565		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	9/12/2013	34	11943	198.8	252.178376	-53.378376		-310	313
3543203	6554349.371	20129464.51	73	124	1584358	612937	9	12/18/2013	34	12040	201.4	252.875439	-51.475439		-310	313
3543303	6569454.59	20127262.07	75	126	1436037	516228	7	7/5/1984	5	1282	340	305.541601	34.458399	270	270	400
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	2/20/2010	31	10643	295.7	283.154071	12.545929		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	5/2/2010	31	10714	295.5	283.13313	12.366687		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	9/2/2010	31	10837	292.1	283.105055	8.994945		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	12/2/2010	31	10928	291.5	283.08846	8.41154		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	3/3/2011	32	11019	291.5	282.928363	8.571637		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	5/7/2011	32	11084	291.2	282.843964	8.356036		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	8/20/2011	32	11189	290.1	282.740684	7.359316		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	11/11/2011	32	11272	289.1	282.671535	6.428465		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	3/8/2012	33	11390	290.1	282.783707	7.316293		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	6/13/2012	33	11487	291.8	282.849779	8.950221		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	9/11/2012	33	11577	290.9	282.882882	8.017118		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	12/8/2012	33	11665	290.5	282.904158	7.595842		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	3/20/2013	34	11767	292.9	283.227708	9.672292		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	6/19/2013	34	11858	293.1	283.362323	9.737677		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	9/12/2013	34	11943	291.1	283.440499	7.659501		192	332
3543402	6545634.526	20118109.4	75	121	1435981	516172	7	12/18/2013	34	12040	291.8	283.504937	8.295063		192	332
3543403	6546650.036	20114792.13	75	121	1584859	613361	9	9/2/2009	30	10472	194.6	225.464696	-30.864696		-382	283
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	9/2/2010	31	10837	211.6	261.54423	-49.94423		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	12/2/2010	31	10928	211	261.215718	-50.215718		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	3/3/2011	32	11019	211.3	259.191295	-47.891295		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	5/7/2011	32	11084	210.7	257.77178	-47.07178		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	8/20/2011	32	11189	207.6	256.287726	-48.687726		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	3/9/2012	33	11391	207.6	256.244718	-48.644718		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	6/13/2012	33	11487	207.1	257.289305	-50.189305		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	9/11/2012	33	11577	205.5	257.784312	-52.284312		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	12/8/2012	33	11665	205.6	258.08103	-52.48103		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	3/20/2013	34	11767	206.3	260.256163	-53.956163		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	6/19/2013	34	11858	205.6	262.019848	-56.419848		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	9/12/2013	34	11943	203.6	263.213188	-59.613188		-224	316
3543404	6542361.016	20105818.84	76	120	1519073	562978	8	12/18/2013	34	12040	204.3	264.280381	-59.980381		-224	316
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	3/4/1981	2	63	341.9	294.754085	47.145915	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/14/1981	2	318	340.44	294.510348	45.929652	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/19/1982	3	688	338.8	294.135435	44.664565	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/19/1983	4	1053	341.24	294.412515	46.827485	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/3/1984	5	1403	340.56	296.113581	44.446419	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/6/1985	6	1771	338.92	294.884615	44.035385	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/6/1986	7	2136	339.59	292.14171	47.44829	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/11/1987	8	2506	339.8	292.550872	47.249128	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/11/1988	9	2872	340.1	295.61166	44.48834	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	10/14/1989	10	3209	341.5	296.444311	45.055689	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/13/1990	11	3604	341.16	295.320756	45.839244	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	12/10/1991	12	3996	342.89	294.762471	48.127529	187	187	398

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/18/1992	13	4340	342.3	296.556658	45.743342	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	12/15/1993	14	4732	343.05	293.810382	49.239618	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/18/1994	15	5070	341.7	292.467278	49.232722	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/22/1996	17	5805	337.95	291.918914	46.031086	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/21/1997	18	6169	341.77	294.030399	47.739601	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/11/1999	20	6889	338.75	296.331347	42.418653	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/10/2000	21	7254	333.69	295.609443	38.080557	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/8/2001	22	7617	335.8	294.43094	41.36906	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/14/2002	23	7988	338.46	293.337507	45.122493	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/12/2003	24	8351	337.6	294.043348	43.556652	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/12/2004	25	8717	337.52	294.254495	43.265505	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/15/2006	27	9450	335.31	294.501875	40.808125	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/15/2007	28	9815	333.18	294.303368	38.876632	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/22/2008	29	10188	337.97	294.169862	43.800138	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/20/2009	30	10551	336.78	293.336026	43.443974	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/17/2010	31	10913	335.24	293.256464	41.983536	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	10/27/2011	32	11257	333.34	292.224023	41.115977	187	187	398
3543501	6554921.28	20112166.5	76	122	1436681	516732	7	11/14/2013	34	12006	332.53	295.007791	37.522209	187	187	398
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	3/4/1981	2	63	353	301.316811	51.683189	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/13/1981	2	317	351.87	300.714331	51.155669	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/19/1982	3	688	352.29	299.8776	52.4124	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/19/1983	4	1053	352.06	300.440472	51.619528	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/3/1984	5	1403	352.52	304.062528	48.457472	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/6/1986	7	2136	347.49	295.865964	51.624036	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/11/1987	8	2506	351.52	296.281833	55.238167	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/11/1988	9	2872	351.36	302.59512	48.76488	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	10/14/1989	10	3209	353.9	304.879624	49.020376	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/13/1990	11	3604	352.92	302.421131	50.498869	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	12/10/1991	12	3996	354.5	301.147418	53.352582	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/18/1992	13	4340	353.63	304.819866	48.810134	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	12/15/1993	14	4732	354.55	299.149805	55.400195	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/18/1994	15	5070	352.67	296.113974	56.556026	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/16/1995	16	5433	354.07	300.724557	53.345443	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/21/1996	17	5804	351.78	295.266745	56.513255	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/21/1997	18	6169	352.25	298.947154	53.302846	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/11/1999	20	6889	352.35	304.374711	47.975289	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/14/2002	23	7988	353.65	297.356886	56.293114	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/12/2003	24	8351	352.63	298.658511	53.971489	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/12/2004	25	8717	351.28	299.541461	51.738539	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/15/2006	27	9450	349.22	300.595034	48.624966	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/15/2007	28	9815	346.82	300.103383	46.716617	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/19/2008	29	10185	350.23	299.802442	50.427558	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/20/2009	30	10551	350.84	298.018329	52.821671	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	11/17/2010	31	10913	350.2	297.714405	52.485595	346	346	400
3543601	6572694.07	20111704.97	78	125	1438025	517684	7	10/27/2011	32	11257	347.62	295.692959	51.927041	346	346	400
3543602	6571474.478	20106779.67	79	125	1520279	563834	8	4/24/1981	2	114	309	278.540911	30.459089	-35	-35	440
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	12/2/2010	31	10928	245.4	254.797713	-9.397713	22	22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	3/3/2011	32	11019	245.4	253.705148	-8.305148	22	22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	5/7/2011	32	11084	244.5	252.746705	-8.246705	22	22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	8/20/2011	32	11189	243.2	251.657167	-8.457167	22	22	397

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	11/11/2011	32	11272	242.3	250.999942	-8.699942		22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	3/8/2012	33	11390	243.4	251.880714	-8.480714		22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	6/13/2012	33	11487	243.2	252.38239	-9.18239		22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	9/11/2012	33	11577	243.5	252.741662	-9.241662		22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	6/19/2013	34	11858	242.2	254.677417	-12.477417		22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	9/12/2013	34	11943	241.4	255.053951	-13.653951		22	397
3543605	6565073.44	20116091.32	77	124	1519435	563249	8	12/18/2013	34	12040	241.8	255.704893	-13.904893		22	397
3543702	6546689.034	20090585.25	79	119	1438751	518186	7	4/24/1981	2	114	415.9	358.550037	57.349963		370	475
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	5/2/2009	30	10349	212.7	245.414831	-32.714831		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	9/2/2009	30	10472	209.7	244.622166	-34.922166		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	10/3/2009	30	10503	214.3	245.981123	-31.681123		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	5/2/2010	31	10714	211.7	242.800555	-31.100555		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	9/2/2010	31	10837	210.5	241.749664	-31.249664		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	12/2/2010	31	10928	210.8	241.56173	-30.76173		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	2/24/2011	32	11012	212.2	239.937004	-27.737004		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	5/7/2011	32	11084	212.1	238.418336	-26.318336		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	8/20/2011	32	11189	208.5	236.052843	-27.552843		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	11/11/2011	32	11272	208.7	235.391405	-26.691405		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	3/8/2012	33	11390	210.1	236.890209	-26.790209		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	6/19/2012	33	11493	210.5	238.094916	-27.594916		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	9/11/2012	33	11577	209.8	238.26858	-28.46858		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	12/8/2012	33	11665	207.9	237.95016	-30.05016		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	3/20/2013	34	11767	208.5	240.321419	-31.821419		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	6/22/2013	34	11861	208.3	241.918539	-33.618539		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	9/12/2013	34	11943	206.2	242.308072	-36.108072		-182	378
3543703	6541640.402	20088672.3	79	118	1520272	563827	8	12/18/2013	34	12040	206.5	243.358262	-36.858262		-182	378
3543902	6573844.455	20098581.16	80	124	1520749	564146	8	7/7/1986	7	2014	293	271.4641	21.5359	8	4	452
3543902	6573844.455	20098581.16	80	124	1520749	564146	8	3/16/1988	9	2632	281	263.935472	17.064528	8	4	452
3543903	6572819.9	20100254.92	80	124	1439539	518683	7	8/4/1983	4	946	430	319.273904	110.7261	270	270	465
3543903	6572819.9	20100254.92	80	124	1439539	518683	7	3/16/1988	9	2632	379.63	316.628037	63.001963	270	270	465
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	2/23/1993	14	4437	230	257.362311	-27.362311	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	3/24/1993	14	4466	232.18	256.736814	-24.556814	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	4/1/1993	14	4474	235.5	256.564264	-21.064264	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	12/1/1993	14	4718	230.5	253.57272	-23.07272	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	12/15/1993	14	4732	227	253.454836	-26.454836	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/1/1994	15	5053	223.5	251.414112	-27.914112	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/18/1994	15	5070	223.12	251.303898	-28.183898	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/1/1995	16	5418	226.5	249.164579	-22.664579	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/16/1995	16	5433	223.98	249.242072	-25.262072	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	6/1/1996	17	5631	232.5	243.729733	-11.229733	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/1/1996	17	5784	232.5	241.185697	-8.685697	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/22/1996	17	5805	227.81	240.928913	-13.118913	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/1/1997	18	6149	226.5	245.199737	-18.699737	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/21/1997	18	6169	222.68	245.326432	-22.646432	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	12/1/1998	19	6544	222.5	249.895745	-27.395745	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	12/18/1998	19	6561	219.37	249.931258	-30.561258	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/1/1999	20	6879	222.5	258.47395	-35.97395	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	8/3/2000	21	7155	216.5	257.639331	-41.139331	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/10/2000	21	7254	215.22	257.502573	-42.282573	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	3/1/2001	22	7365	219.5	254.344532	-34.844532	-113	-125	475

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	8/1/2001	22	7518	216.5	251.116256	-34.616256	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/8/2001	22	7617	212.5	250.269533	-37.769533	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	2/1/2002	23	7702	217.5	241.607256	-24.107256	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	9/1/2002	23	7914	216.5	225.429853	-8.929853	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/14/2002	23	7988	212.56	220.665305	-8.105305	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	1/1/2003	24	8036	222.5	223.443122	-0.943122	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	8/1/2003	24	8248	219.5	233.941648	-14.441648	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/13/2003	24	8352	216.85	235.115288	-18.265288	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	8/1/2004	25	8614	212.5	246.870677	-34.370677	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	3/1/2005	26	8826	217.5	257.584101	-40.084101	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	8/1/2005	26	8979	212.5	264.238393	-51.738393	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/15/2006	27	9450	208.4	246.37745	-37.97745	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	3/2/2007	28	9557	203	263.76392	-60.76392	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	11/14/2007	28	9814	211	265.007846	-54.007846	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	3/26/2009	30	10312	203	264.10519	-61.10519	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	3/11/2010	31	10662	207	262.864612	-55.864612	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	6/16/2010	31	10759	204	262.02305	-58.02305	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	6/16/2011	32	11124	201	257.897744	-56.897744	-113	-125	475
3543904	6568626.338	20103600.65	79	124	1520278	563833	8	7/16/2012	33	11520	199	258.581396	-59.581396	-113	-125	475
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/2/2009	30	10349	233.8	264.727245	-30.927245		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/2/2009	30	10472	232.6	264.753922	-32.153922		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/20/2010	31	10643	233.8	263.450038	-29.650038		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/2/2010	31	10714	233.4	262.615173	-29.215173		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/2/2010	31	10898	232.7	261.783025	-29.083025		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/24/2011	32	11012	232.1	259.917816	-27.817816		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/7/2011	32	11084	231.3	258.509208	-27.209208		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/20/2011	32	11189	230.2	257.251982	-27.051982		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/31/2011	32	11200	231.05	257.143036	-26.093036		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/6/2011	32	11206	230.91	257.083612	-26.173612		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/11/2011	32	11211	230.75	257.034091	-26.284091		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/16/2011	32	11216	230.62	256.984571	-26.364571		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/21/2011	32	11221	230.56	256.93505	-26.37505		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/26/2011	32	11226	230.47	256.89448	-26.42448		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/1/2011	32	11231	229.99	256.857032	-26.867032		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/6/2011	32	11236	229.85	256.819584	-26.969584		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/11/2011	32	11241	229.76	256.782136	-27.022136		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/16/2011	32	11246	229.69	256.744687	-27.054687		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/21/2011	32	11251	229.59	256.707239	-27.117239		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/26/2011	32	11256	229.79	256.669791	-26.879791		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/27/2011	32	11257	229.35	256.662301	-27.312301		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/31/2011	32	11261	229.66	256.632343	-26.972343		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/6/2011	32	11267	229.57	256.587405	-27.017405		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/11/2011	32	11272	229.5	256.549957	-27.049957		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/16/2011	32	11277	229.58	256.512509	-26.932509		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/21/2011	32	11282	229.52	256.475061	-26.955061		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/26/2011	32	11287	229.52	256.437612	-26.917612		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/1/2011	32	11292	229.57	256.400164	-26.830164		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/6/2011	32	11297	229.65	256.362716	-26.712716		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/11/2011	32	11302	229.6	256.325268	-26.725268		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/13/2011	32	11304	230.7	256.310289	-25.610289		-21	394

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/16/2011	32	11307	229.7	256.28782	-26.58782		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/21/2011	32	11312	229.81	256.250372	-26.440372		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/26/2011	32	11317	229.7	256.212923	-26.512923		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/31/2011	32	11322	229.71	256.175475	-26.465475		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/6/2012	33	11328	229.47	256.247764	-26.777764		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/11/2012	33	11333	229.52	256.356849	-26.836849		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/16/2012	33	11338	229.46	256.465934	-27.005934		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/21/2012	33	11343	229.59	256.575019	-26.985019		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/26/2012	33	11348	229.73	256.684103	-26.954103		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/31/2012	33	11353	229.66	256.793188	-27.133188		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/6/2012	33	11359	229.63	256.92409	-27.29409		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/11/2012	33	11364	229.63	257.033175	-27.403175		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/16/2012	33	11369	229.67	257.14226	-27.47226		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/21/2012	33	11374	229.72	257.243642	-27.523642		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/26/2012	33	11379	229.66	257.312236	-27.652236		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/29/2012	33	11382	229.66	257.353392	-27.693392		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/6/2012	33	11388	230.53	257.435705	-26.905705		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/11/2012	33	11393	230.5	257.504299	-27.004299		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/13/2012	33	11395	230.8	257.531737	-26.731737		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/16/2012	33	11398	230.87	257.572893	-26.702893		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/21/2012	33	11403	231.47	257.641487	-26.171487		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/26/2012	33	11408	230.83	257.710081	-26.880081		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/31/2012	33	11413	230.74	257.778675	-27.038675		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/6/2012	33	11419	230.19	257.860988	-27.670988		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/11/2012	33	11424	229.43	257.929582	-28.499582		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/16/2012	33	11429	228.24	257.998176	-29.758176		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/21/2012	33	11434	226.8	258.054296	-31.254296		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/26/2012	33	11439	226.38	258.093088	-31.713088		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/1/2012	33	11444	226.82	258.13188	-31.31188		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/6/2012	33	11449	226.78	258.170672	-31.390672		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/11/2012	33	11454	227.27	258.209464	-30.939464		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/16/2012	33	11459	227.82	258.248256	-30.428256		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/21/2012	33	11464	227.91	258.287048	-30.377048		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	6/13/2012	33	11487	228.6	258.465492	-29.865492		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/1/2012	33	11505	227.72	258.597389	-30.877389		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/6/2012	33	11510	227.55	258.620438	-31.070438		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/11/2012	33	11515	228.25	258.643488	-30.393488		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/16/2012	33	11520	228.24	258.666537	-30.426537		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/21/2012	33	11525	227.88	258.689587	-30.809587		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/26/2012	33	11530	228.64	258.712636	-30.072636		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/31/2012	33	11535	228.64	258.735686	-30.095686		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/6/2012	33	11541	226.42	258.763345	-32.343345		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/11/2012	33	11546	227.62	258.786395	-31.166395		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/16/2012	33	11551	227.5	258.809445	-31.309445		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/21/2012	33	11556	227.71	258.832494	-31.122494		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/31/2012	33	11566	225.16	258.878593	-33.718593		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/8/2012	33	11635	229.05	259.11838	-30.06838		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/16/2012	33	11643	229.14	259.14213	-30.00213		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/21/2012	33	11648	229.14	259.156973	-30.016973		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/26/2012	33	11653	229.01	259.171817	-30.161817		-21	394

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/1/2012	33	11658	228.93	259.18666	-30.25666		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/6/2012	33	11663	228.9	259.201504	-30.301504		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/13/2012	33	11670	228.7	259.222285	-30.522285		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/16/2012	33	11673	228.77	259.231191	-30.461191		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/21/2012	33	11678	228.8	259.246034	-30.446034		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/26/2012	33	11683	228.57	259.260878	-30.690878		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/31/2012	33	11688	228.49	259.275721	-30.785721		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/6/2013	34	11694	228.54	259.421568	-30.881568		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/11/2013	34	11699	228.67	259.564446	-30.894446		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/16/2013	34	11704	228.6	259.707324	-31.107324		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/16/2013	34	11704	228.54	259.707324	-31.167324		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/21/2013	34	11709	228.58	259.850202	-31.270202		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/26/2013	34	11714	228.6	259.99308	-31.39308		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	1/31/2013	34	11719	228.73	260.135958	-31.405958		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/6/2013	34	11725	228.69	260.307412	-31.617412		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/11/2013	34	11730	228.72	260.45029	-31.73029		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/16/2013	34	11735	228.8	260.593168	-31.793168		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	2/21/2013	34	11740	228.78	260.723588	-31.943588		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/6/2013	34	11753	229.04	261.01207	-31.97207		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/7/2013	34	11754	228.75	261.034261	-32.284261		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/11/2013	34	11758	229.03	261.123024	-32.093024		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/13/2013	34	11760	229	261.167406	-32.167406		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/16/2013	34	11763	229.04	261.233978	-32.193978		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/21/2013	34	11768	229.11	261.344933	-32.234933		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/26/2013	34	11773	229.15	261.455887	-32.305887		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	3/31/2013	34	11778	229.22	261.566841	-32.346841		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/6/2013	34	11784	229.28	261.699987	-32.419987		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/11/2013	34	11789	229.33	261.810941	-32.480941		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/16/2013	34	11794	229.3	261.921895	-32.621895		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/21/2013	34	11799	229.07	262.021471	-32.951471		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	4/26/2013	34	11804	228.87	262.105238	-33.235238		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/1/2013	34	11809	228.73	262.189006	-33.459006		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/6/2013	34	11814	228.46	262.272774	-33.812774		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/11/2013	34	11819	228.33	262.356542	-34.026542		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/16/2013	34	11824	228.03	262.440309	-34.410309		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/21/2013	34	11829	227.8	262.524077	-34.724077		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/26/2013	34	11834	227.43	262.607845	-35.177845		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	5/31/2013	34	11839	227.18	262.691613	-35.511613		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	6/6/2013	34	11845	226.79	262.792134	-36.002134		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	6/11/2013	34	11850	226.48	262.875902	-36.395902		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	6/13/2013	34	11852	226.3	262.909409	-36.609409		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	6/16/2013	34	11855	226.17	262.959669	-36.789669		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	6/21/2013	34	11860	225.88	263.043437	-37.163437		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	6/26/2013	34	11865	225.58	263.127205	-37.547205		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/1/2013	34	11870	225.36	263.201347	-37.841347		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/6/2013	34	11875	225.12	263.265574	-38.145574		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/11/2013	34	11880	225.08	263.3298	-38.2498		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/16/2013	34	11885	225.21	263.394027	-38.184027		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/21/2013	34	11890	225.4	263.458253	-38.058253		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/26/2013	34	11895	225.58	263.52248	-37.94248		-21	394

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	7/31/2013	34	11900	225.75	263.586706	-37.836706		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/6/2013	34	11906	226.01	263.663778	-37.653778		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/11/2013	34	11911	226.32	263.728005	-37.408005		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/16/2013	34	11916	225.29	263.792231	-38.502231		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/21/2013	34	11921	225.36	263.856458	-38.496458		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/26/2013	34	11926	225.46	263.920685	-38.460685		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	8/31/2013	34	11931	225.58	263.984911	-38.404911		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/6/2013	34	11937	225.68	264.061983	-38.381983		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/11/2013	34	11942	225.81	264.12621	-38.31621		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/13/2013	34	11944	225.9	264.1519	-38.2519		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/16/2013	34	11947	225.91	264.190436	-38.280436		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/21/2013	34	11952	226.01	264.254663	-38.244663		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	9/26/2013	34	11957	226.27	264.305216	-38.035216		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/1/2013	34	11962	226.38	264.354919	-37.974919		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/6/2013	34	11967	226.46	264.404622	-37.944622		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/11/2013	34	11972	226.52	264.454325	-37.934325		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/16/2013	34	11977	226.61	264.504027	-37.894027		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/21/2013	34	11982	226.74	264.55373	-37.81373		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/26/2013	34	11987	226.79	264.603433	-37.813433		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	10/31/2013	34	11992	226.93	264.653136	-37.723136		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/6/2013	34	11998	227.27	264.712779	-37.442779		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/11/2013	34	12003	227.35	264.762482	-37.412482		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/14/2013	34	12006	227.13	264.792303	-37.662303		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/16/2013	34	12008	227.45	264.812184	-37.362184		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/21/2013	34	12013	227.53	264.861887	-37.331887		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	11/26/2013	34	12018	227.68	264.91159	-37.23159		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/1/2013	34	12023	227.8	264.961292	-37.161292		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/6/2013	34	12028	228.03	265.010995	-36.980995		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/11/2013	34	12033	228.06	265.060698	-37.000698		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/13/2013	34	12035	228.1	265.080579	-36.980579		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/16/2013	34	12038	228.22	265.110401	-36.890401		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/21/2013	34	12043	228.43	265.160103	-36.730103		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/26/2013	34	12048	228.56	265.209806	-36.649806		-21	394
3543906	6571939.752	20097171.04	80	124	1520749	564146	8	12/31/2013	34	12053	228.69	265.259509	-36.569509		-21	394
3544102	6586203.926	20126555.57	77	129	1519440	563254	8	9/9/1984	5	1348	240	249.034942	-9.034942	-56	-62	324
3544102	6586203.926	20126555.57	77	129	1519440	563254	8	3/15/1988	9	2631	234.34	241.248918	-6.908918	-56	-62	324
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	10/8/1984	5	1377	232	245.022691	-13.022691	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	10/8/1985	6	1742	229	241.950893	-12.950893	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/1/1988	9	2617	236	241.030838	-5.030838	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/15/1988	9	2631	232.27	239.837528	-7.567528	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/11/1988	9	2872	225	237.969143	-12.969143	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/1/1993	14	4443	230.5	236.772583	-6.272583	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/24/1993	14	4466	226.45	235.263805	-8.813805	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/1/1993	14	4718	232.5	235.37591	-2.87591	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/15/1993	14	4732	228.7	234.181131	-5.481131	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/1/1994	15	5053	223	231.915849	-8.915849	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/18/1994	15	5070	219.23	230.73943	-11.50943	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/1/1995	16	5418	227	232.726027	-5.726027	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/16/1995	16	5433	222.7	231.471196	-8.771196	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/1/1996	17	5784	222.5	226.785376	-4.285376	-64	-67	320

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/22/1996	17	5805	218.7	225.52471	-6.82471	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/1/1997	18	6149	231	231.003684	-0.003684	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/21/1997	18	6169	226.48	229.707017	-3.227017	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/1/1998	19	6544	229.5	233.722709	-4.222709	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/18/1998	19	6561	225.48	232.536226	-7.056226	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/1/1999	20	6879	228.5	237.69766	-9.19766	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/11/1999	20	6889	224.5	236.547182	-12.047182	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/1/2000	21	7153	221	234.239415	-13.239415	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/10/2000	21	7254	220.23	233.873404	-13.643404	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/1/2001	22	7365	221	233.252969	-12.252969	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/1/2001	22	7518	216	230.461919	-14.461919	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/7/2001	22	7616	218.35	230.783481	-12.433481	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	2/1/2002	23	7702	221	227.092276	-6.092276	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	9/1/2002	23	7914	218	214.600584	3.399416	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/14/2002	23	7988	218.14	213.763567	4.376433	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	1/1/2003	24	8036	221	214.169755	6.830245	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/1/2003	24	8248	220	218.988309	1.011691	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/13/2003	24	8352	212.45	217.393037	-4.943037	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/1/2004	25	8614	218.5	228.120239	-9.620239	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/1/2005	26	8826	218	233.484451	-15.484451	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/1/2005	26	8979	213	236.455913	-23.455913	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/7/2005	26	9107	212.2	237.133586	-24.933586	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/7/2005	26	9107	212.16	237.121586	-24.961586	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	2/2/2006	27	9164	213.6	237.418631	-23.818631	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/2/2006	27	9192	212.2	236.772381	-24.572381	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	4/6/2006	27	9227	212.2	236.516883	-24.316883	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	5/4/2006	27	9255	210.2	235.749361	-25.549361	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	6/2/2006	27	9284	207.6	234.833544	-27.233544	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	7/4/2006	27	9316	204.2	233.672024	-29.472024	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/2/2006	27	9345	204	233.530439	-29.530439	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	9/2/2006	27	9376	202.8	233.083227	-30.283227	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	10/3/2006	27	9407	204.4	233.487716	-29.087716	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/2/2006	27	9437	205.9	233.886103	-27.986103	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/2/2006	27	9467	206.5	234.014489	-27.514489	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	1/3/2007	28	9499	202	232.620127	-30.620127	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	2/2/2007	28	9529	206.7	234.299285	-27.599285	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/2/2007	28	9557	206.8	234.555161	-27.755161	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	4/3/2007	28	9589	206.4	234.640784	-28.240784	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	5/2/2007	28	9618	204.4	234.191425	-29.791425	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	6/2/2007	28	9649	203.5	234.029091	-30.529091	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	7/3/2007	28	9680	202.6	233.860559	-31.260559	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/2/2007	28	9710	201.5	233.581052	-32.081052	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	9/4/2007	28	9743	196	231.986594	-35.986594	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/2/2007	28	9802	143	216.1497	-73.1497	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/4/2007	28	9834	199.8	233.215105	-33.415105	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	1/3/2008	29	9864	199.8	233.232264	-33.432264	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	2/2/2008	29	9894	201.4	233.536334	-32.136334	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/4/2008	29	9925	201.3	233.343803	-32.043803	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	4/2/2008	29	9954	201.5	233.276871	-31.776871	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	5/1/2008	29	9983	200.8	232.961861	-32.161861	-64	-67	320

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	6/1/2008	29	10014	187	228.742372	-41.742372	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	7/1/2008	29	10044	194	230.768256	-36.768256	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/1/2008	29	10075	200.2	232.584129	-32.384129	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	9/1/2008	29	10106	201.3	232.870002	-31.570002	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/1/2008	29	10167	200.4	232.537757	-32.137757	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/1/2008	29	10197	198.4	231.913173	-33.513173	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	1/1/2009	30	10228	198.4	231.887769	-33.487769	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	2/1/2009	30	10259	197.6	231.840547	-34.240547	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/1/2009	30	10287	198.2	232.16895	-33.96895	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	4/2/2009	30	10319	200.7	233.034118	-32.334118	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	5/2/2009	30	10349	200.6	233.082154	-32.482154	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	6/2/2009	30	10380	202.8	233.781214	-30.981214	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	7/2/2009	30	10410	199.8	232.915446	-33.115446	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	8/4/2009	30	10443	203.2	233.937422	-30.737422	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	9/2/2009	30	10472	204.4	234.299159	-29.899159	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	11/3/2009	30	10534	207	235.06431	-28.06431	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	12/3/2009	30	10564	206.8	234.992843	-28.192843	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	1/13/2010	31	10605	200.2	232.912113	-32.712113	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	2/4/2010	31	10627	204.6	234.053585	-29.453585	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	3/3/2010	31	10654	204.6	233.8591	-29.2591	-64	-67	320
3544103	6586884.557	20128414.06	77	129	1585395	613822	9	4/6/2010	31	10688	204.1	233.509622	-29.409622	-64	-67	320
3544104	6585750.01	20125316.93	77	129	1519440	563254	8	9/17/1984	5	1356	231	246.817712	-15.817712	37	31	315
3544104	6585750.01	20125316.93	77	129	1519440	563254	8	3/15/1988	9	2631	228.65	239.799419	-11.149419	37	31	315
3544105	6585049.296	20129135.16	76	129	1519091	562996	8	9/2/2009	30	10472	191.3	219.712068	-28.412068		-55	285
3544106	6586392.713	20129707.7	76	129	1519092	562997	8	9/2/2009	30	10472	205.1	226.471789	-21.371789		-17	283
3544107	6589203.728	20135492.2	76	130	1519094	562999	8	5/2/2009	30	10349	206.4	233.409955	-27.009955		58	308
3544107	6589203.728	20135492.2	76	130	1519094	562999	8	9/2/2009	30	10472	206.9	233.558846	-26.658846		58	308
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	9/2/2009	30	10472	212.1	251.141077	-39.041077		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	2/20/2010	31	10643	213	250.482369	-37.482369		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	9/2/2010	31	10837	212.2	249.272451	-37.072451		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	12/2/2010	31	10928	212.6	249.059507	-36.459507		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	3/8/2011	32	11024	213.2	247.829021	-34.629021		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	5/5/2011	32	11082	212.4	246.965281	-34.565281		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	8/16/2011	32	11185	208.3	245.959536	-37.659536		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	11/12/2011	32	11273	208.7	245.385274	-36.685274		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	3/7/2012	33	11389	211.2	245.81228	-34.61228		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	6/19/2012	33	11493	210.3	246.683064	-36.383064		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	9/13/2012	33	11579	209	247.071906	-38.071906		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	12/8/2012	33	11665	211.3	247.304474	-36.004474		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	3/20/2013	34	11767	213.5	248.648498	-35.148498		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	6/19/2013	34	11858	213.1	249.916597	-36.816597		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	9/12/2013	34	11943	210.2	250.762409	-40.562409		-134	306
3544108	6578350.305	20120596.84	77	127	1585393	613820	9	12/18/2013	34	12040	213.1	251.474138	-38.374138		-134	306
3544109	6588508.998	20135853.57	76	130	1519094	562999	8	9/2/2009	30	10472	211	227.95567	-16.95567		-18	312
3544110	6588454.756	20132059.23	76	130	1519095	563000	8	9/2/2009	30	10472	203.3	224.677062	-21.377062		2	242
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	9/2/2010	31	10837	208.4	249.449906	-41.049906		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	12/2/2010	31	10928	209.7	249.305318	-39.605318		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	3/8/2011	32	11024	210.4	247.665035	-37.265035		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	5/5/2011	32	11082	208.8	246.941302	-38.141302		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	8/16/2011	32	11185	204.9	246.169304	-41.269304		-24	336

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	11/12/2011	32	11273	205.6	245.720051	-40.120051		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	3/7/2012	33	11389	207.9	246.698717	-38.798717		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	6/19/2012	33	11493	207.1	247.439482	-40.339482		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	9/13/2012	33	11579	205.5	247.742187	-42.242187		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	12/8/2012	33	11665	208.4	247.929991	-39.529991		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	3/20/2013	34	11767	210.8	249.634452	-38.834452		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	6/19/2013	34	11858	210	250.780334	-40.780334		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	9/12/2013	34	11943	207.6	251.507855	-43.907855		-24	336
3544111	6587176.418	20120864.96	78	129	1519857	563539	8	12/18/2013	34	12040	210.2	252.116156	-41.916156		-24	336
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	9/2/2010	31	10837	189.8	248.994539	-59.194539		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	12/2/2010	31	10928	192.1	248.857558	-56.757558		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	3/8/2011	32	11024	193.3	247.335777	-54.035777		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	5/5/2011	32	11082	190.7	246.657361	-55.957361		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	8/16/2011	32	11185	185.5	245.93061	-60.43061		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	11/12/2011	32	11273	188.1	245.50956	-57.40956		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	3/7/2012	33	11389	190.1	246.416434	-56.316434		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	6/19/2012	33	11493	188.1	247.114813	-59.014813		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	9/13/2012	33	11579	186.5	247.401044	-60.901044		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	12/8/2012	33	11665	189.7	247.577467	-57.877467		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	3/20/2013	34	11767	193.3	249.173838	-55.873838		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	6/19/2013	34	11858	192.1	250.243765	-58.143765		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	9/12/2013	34	11943	188.3	250.920413	-62.620413		-74	326
3544112	6583465.075	20125063.42	77	128	1519439	563253	8	12/18/2013	34	12040	192.3	251.484328	-59.184328		-74	326
3544113	6587558.381	20128832	77	129	1519440	563254	8	5/2/2009	30	10349	208.6	247.703266	-39.103266		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	9/2/2009	30	10472	208	247.693005	-39.693005		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	2/20/2010	31	10643	209.4	246.773777	-37.373777		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	5/2/2010	31	10714	207.6	246.349955	-38.749955		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	9/2/2010	31	10837	210.3	246.034026	-35.734026		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	12/2/2010	31	10928	210.2	245.912692	-35.712692		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	3/8/2011	32	11024	212.6	244.468244	-31.868244		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	5/5/2011	32	11082	210.6	243.844158	-33.244158		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	8/16/2011	32	11185	204.2	243.186305	-38.986305		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	11/12/2011	32	11273	207.8	242.809091	-35.009091		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	3/7/2012	33	11389	208	243.704123	-35.704123		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	6/19/2012	33	11493	207.2	244.357265	-37.157265		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	9/13/2012	33	11579	203.8	244.622688	-40.822688		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	12/8/2012	33	11665	209.2	244.785333	-35.585333		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	3/20/2013	34	11767	212.5	246.301022	-33.801022		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	6/19/2013	34	11858	210.6	247.28438	-36.68438		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	9/12/2013	34	11943	207.5	247.897002	-40.397002		-57	313
3544113	6587558.381	20128832	77	129	1519440	563254	8	12/18/2013	34	12040	211.2	248.402057	-37.202057		-57	313
3544114	6584430.961	20129510.52	76	129	1519091	562996	8	9/2/2009	30	10472	195.1	221.67022	-26.57022		-50	250
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	12/2/2010	31	10928	210.8	243.936933	-33.136933		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	3/8/2011	32	11024	211.5	242.84761	-31.34761		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	5/5/2011	32	11082	210.6	242.128451	-31.528451		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	8/31/2011	32	11200	206.8	241.239203	-34.439203		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	11/15/2011	32	11276	208.4	240.876121	-32.476121		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	3/7/2012	33	11389	209.2	241.376451	-32.176451		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	6/19/2012	33	11493	207.1	242.146265	-35.046265		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	9/13/2012	33	11579	206	242.478701	-36.478701		-143	247

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	12/8/2012	33	11665	209	242.675585	-33.675585		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	3/20/2013	34	11767	211.5	243.908809	-32.408809		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	6/22/2013	34	11861	210.9	245.02721	-34.12721		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	9/12/2013	34	11943	208.1	245.683761	-37.583761		-143	247
3544202	6590146.438	20131817.64	76	130	1585126	613592	9	12/18/2013	34	12040	211	246.242019	-35.242019		-143	247
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	9/2/2009	30	10472	217.9	242.775853	-24.875853		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	3/18/2010	31	10669	220.3	241.949948	-21.649948		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	9/2/2010	31	10837	218.9	241.276381	-22.376381		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	12/2/2010	31	10928	218.9	241.141139	-22.241139		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	3/8/2011	32	11024	219.5	240.038465	-20.538465		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	5/5/2011	32	11082	219.1	239.347897	-20.247897		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	8/31/2011	32	11200	217.2	238.524016	-21.324016		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	11/15/2011	32	11276	216.5	238.191753	-21.691753		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	3/7/2012	33	11389	217.5	238.758826	-21.258826		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	6/19/2012	33	11493	216.9	239.514401	-22.614401		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	9/13/2012	33	11579	215.7	239.832333	-24.132333		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	12/8/2012	33	11665	216.9	240.021133	-23.121133		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	3/20/2013	34	11767	218.9	241.272728	-22.372728		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	6/22/2013	34	11861	218.9	242.360949	-23.460949		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	9/12/2013	34	11943	217.8	242.984401	-25.184401		-67	273
3544203	6601201.878	20133577.59	77	132	1585398	613825	9	12/18/2013	34	12040	218.9	243.506523	-24.606523		-67	273
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	9/2/2010	31	10837	205.7	241.459414	-35.759414		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	12/2/2010	31	10928	205.9	241.327961	-35.427961		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	3/8/2011	32	11024	205.6	240.275487	-34.675487		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	5/5/2011	32	11082	206.1	239.603611	-33.503611		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	8/31/2011	32	11200	204.1	238.797355	-34.697355		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	11/15/2011	32	11276	203.7	238.473217	-34.773217		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	3/7/2012	33	11389	204.4	239.009155	-34.609155		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	6/19/2012	33	11493	203.8	239.751171	-35.951171		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	12/8/2012	33	11665	204.1	240.25284	-36.15284		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	3/20/2013	34	11767	205.9	241.474611	-35.574611		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	6/22/2013	34	11861	205.5	242.545232	-37.045232		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	9/12/2013	34	11943	204.7	243.156284	-38.456284		-64	236
3544204	6599821.379	20135851.52	77	132	1585398	613825	9	12/18/2013	34	12040	205.9	243.665052	-37.765052		-64	236
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	5/2/2009	30	10349	218.9	241.364022	-22.464022		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	9/2/2009	30	10472	219	241.335851	-22.335851		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	3/18/2010	31	10669	221.2	240.308902	-19.108902		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	9/2/2010	31	10837	220	239.841897	-19.841897		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	12/2/2010	31	10928	220	239.747026	-19.747026		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	3/8/2011	32	11024	220.5	238.36697	-17.86697		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	5/5/2011	32	11082	220.2	237.817174	-17.617174		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	8/31/2011	32	11200	218.5	237.196022	-18.696022		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	11/15/2011	32	11276	217.8	236.938318	-19.138318		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	3/7/2012	33	11389	218.7	237.876523	-19.176523		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	6/19/2012	33	11493	218.2	238.475229	-20.275229		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	9/13/2012	33	11579	217.1	238.714006	-21.614006		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	12/8/2012	33	11665	218.1	238.859538	-20.759538		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	3/20/2013	34	11767	219.9	240.316043	-20.416043		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	6/22/2013	34	11861	219.9	241.217741	-21.317741		19	269
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	9/12/2013	34	11943	218.9	241.718408	-22.818408		19	269

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544205	6601688.439	20134138.96	77	132	1519449	563263	8	12/18/2013	34	12040	220	242.139787	-22.139787		19	269
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	9/2/2009	30	10472	221.3	242.580938	-21.280938		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	3/18/2010	31	10669	223.2	241.627585	-18.427585		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	5/2/2010	31	10714	222.2	241.4125	-19.2125		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	9/2/2010	31	10837	222.1	241.154919	-19.054919		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	12/2/2010	31	10928	222.4	241.057963	-18.657963		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	3/8/2011	32	11024	222	239.761683	-17.761683		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	5/5/2011	32	11082	222.5	239.217345	-16.717345		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	8/31/2011	32	11200	220	238.595379	-18.595379		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	11/15/2011	32	11276	220	238.337218	-18.337218		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	3/7/2012	33	11389	221	239.196247	-18.196247		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	6/19/2012	33	11493	219.6	239.786998	-20.186998		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	9/13/2012	33	11579	218.8	240.024294	-21.224294		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	3/20/2013	34	11767	222.6	241.568285	-18.968285		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	6/22/2013	34	11861	222.2	242.459076	-20.259076		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	9/12/2013	34	11943	220.8	242.956334	-22.156334		-37	263
3544206	6597352.753	20134989.86	77	132	1519446	563260	8	12/18/2013	34	12040	222.3	243.375997	-21.075997		-37	263
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	9/2/2009	30	10472	197.9	246.255354	-48.355354		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	9/2/2010	31	10837	198.7	244.643825	-45.943825		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	12/2/2010	31	10928	199	244.528925	-45.528925		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	3/8/2011	32	11024	200	243.109276	-43.109276		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	5/5/2011	32	11082	198.7	242.504484	-43.804484		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	8/31/2011	32	11200	194.7	241.799148	-47.099148		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	11/15/2011	32	11276	196.1	241.501582	-45.401582		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	3/7/2012	33	11389	197.5	242.407798	-44.907798		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	6/19/2012	33	11493	195.5	243.04615	-47.54615		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	9/13/2012	33	11579	193.9	243.304368	-49.404368		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	12/8/2012	33	11665	197.3	243.462275	-46.162275		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	3/20/2013	34	11767	200.1	244.955439	-44.855439		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	6/22/2013	34	11861	199.3	245.937119	-46.637119		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	9/12/2013	34	11943	196.3	246.499083	-50.199083		-73	297
3544207	6590326.331	20130244.9	77	130	1519441	563255	8	12/18/2013	34	12040	199.4	246.98234	-47.58234		-73	297
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	5/2/2009	30	10349	213.3	244.967096	-31.667096		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	9/2/2009	30	10472	214.4	244.955663	-30.555663		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	9/2/2010	31	10837	215.1	243.437853	-28.337853		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	12/2/2010	31	10928	215.3	243.330361	-28.030361		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	3/8/2011	32	11024	216.1	241.981254	-25.881254		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	5/5/2011	32	11082	215.4	241.405776	-26.005776		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	8/31/2011	32	11200	211.9	240.738721	-28.838721		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	11/15/2011	32	11276	212.9	240.459144	-27.559144		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	3/7/2012	33	11389	213.9	241.329423	-27.429423		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	6/19/2012	33	11493	212.2	241.942827	-29.742827		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	9/13/2012	33	11579	211.1	242.190427	-31.090427		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	12/8/2012	33	11665	213.7	242.341276	-28.641276		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	3/20/2013	34	11767	216	243.776573	-27.776573		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	6/22/2013	34	11861	215.6	244.711119	-29.111119		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	9/12/2013	34	11943	213.1	245.241531	-32.141531		31	251
3544208	6591848.923	20132580.34	76	130	1519096	563001	8	12/18/2013	34	12040	215.5	245.694644	-30.194644		31	251
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	9/2/2010	31	10837	213.7	240.218746	-26.518746		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	12/2/2010	31	10928	209.7	240.069063	-30.369063		-119	321

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	3/8/2011	32	11024	215	238.740275	-23.740275		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	5/5/2011	32	11082	214.7	237.975954	-23.275954		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	8/31/2011	32	11200	212	237.085395	-25.085395		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	11/15/2011	32	11276	211.5	236.722101	-25.222101		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	3/7/2012	33	11389	213.1	237.439342	-24.339342		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	6/19/2012	33	11493	211.2	238.248913	-27.048913		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	9/13/2012	33	11579	211.7	238.577879	-26.877879		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	12/8/2012	33	11665	212.3	238.774357	-26.474357		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	3/20/2013	34	11767	213.7	240.170376	-26.470376		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	6/22/2013	34	11861	212.1	241.328664	-29.228664		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	9/12/2013	34	11943	209.7	241.998439	-32.298439		-119	321
3544304	6605552.588	20124799.66	79	132	1586034	614346	9	12/19/2013	34	12041	214.3	242.575954	-28.275954		-119	321
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	9/2/2009	30	10472	219.6	242.363851	-22.763851		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	3/18/2010	31	10669	221.9	241.464951	-19.564951		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	5/2/2010	31	10714	221.4	241.155182	-19.755182		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	9/2/2010	31	10837	220.9	240.765661	-19.865661		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	12/2/2010	31	10928	220.7	240.626184	-19.926184		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	3/8/2011	32	11024	221.3	239.441296	-18.141296		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	5/5/2011	32	11082	220.7	238.724833	-18.024833		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	8/31/2011	32	11200	219.1	237.879905	-18.779905		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	11/15/2011	32	11276	217.9	237.537902	-19.637902		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	3/7/2012	33	11389	219.1	238.16229	-19.06229		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	6/19/2012	33	11493	218.5	238.937158	-20.437158		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	9/13/2012	33	11579	217.3	239.258241	-21.958241		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	12/8/2012	33	11665	218.5	239.44934	-20.94934		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	3/20/2013	34	11767	220.5	240.752864	-20.252864		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	6/22/2013	34	11861	220.6	241.864933	-21.264933		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	9/12/2013	34	11943	219.6	242.503593	-22.903593		-84	316
3544305	6603575.047	20130298.37	78	132	1585713	614082	9	12/19/2013	34	12041	220.6	243.047483	-22.447483		-84	316
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/14/1981	2	318	267	261.108974	5.891026	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/19/1982	3	688	266.83	260.187185	6.642815	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/19/1983	4	1053	267.77	262.06312	5.70688	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/6/1985	6	1771	266	260.187655	5.812345	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/6/1986	7	2136	264.06	255.205952	8.854048	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/11/1987	8	2506	263.15	255.948956	7.201044	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/11/1988	9	2872	261.46	252.606674	8.853326	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	10/14/1989	10	3209	260.8	259.45014	1.34986	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/13/1990	11	3604	259.23	253.499953	5.730047	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	12/10/1991	12	3996	258.3	256.104097	2.195903	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/18/1992	13	4340	257.4	251.732486	5.667514	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	12/15/1993	14	4732	256.7	246.594699	10.105301	65	65	360
3544402	6580130.47	20110444	79	126	1520280	563835	8	11/17/1994	15	5069	256.92	245.332634	11.587366	65	65	360
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	9/2/2009	30	10472	210.6	251.537387	-40.937387		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	2/20/2010	31	10643	211.4	250.862917	-39.462917		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	5/2/2010	31	10714	207.8	250.19868	-42.39868		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	9/2/2010	31	10837	210	249.61311	-39.61311		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	12/2/2010	31	10928	211.2	249.392705	-38.192705		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	3/8/2011	32	11024	212	248.134762	-36.134762		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	5/5/2011	32	11082	210.9	247.2471	-36.3471		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	8/16/2011	32	11185	204.8	246.211358	-41.411358		-151	309

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	11/12/2011	32	11273	206	245.618783	-39.618783		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	3/7/2012	33	11389	209.7	246.044663	-36.344663		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	6/19/2012	33	11493	205.6	246.934456	-41.334456		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	9/13/2012	33	11579	206.8	247.33219	-40.53219		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	12/8/2012	33	11665	209.8	247.570377	-37.770377		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	3/20/2013	34	11767	212.2	248.93791	-36.73791		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	6/19/2013	34	11858	212	250.237464	-38.237464		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	9/12/2013	34	11943	208.4	251.108129	-42.708129		-151	309
3544405	6578677.642	20118625.71	78	127	1585708	614077	9	12/18/2013	34	12040	212	251.843338	-39.843338		-151	309
3544406	6581227.019	20119621.67	78	127	1585708	614077	9	9/2/2009	30	10472	207.5	229.057358	-21.557358		-163	317
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	3/18/2010	31	10669	222.3	254.270895	-31.970895		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	9/2/2010	31	10837	217.1	253.471037	-36.371037		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	12/2/2010	31	10928	218.5	253.29295	-34.79295		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	3/10/2011	32	11026	219.3	251.4083	-32.1083		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	5/5/2011	32	11082	217.9	250.593568	-32.693568		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	8/16/2011	32	11185	214.1	249.679634	-35.579634		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	11/12/2011	32	11273	214.7	249.137109	-34.437109		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	3/7/2012	33	11389	217.1	250.173055	-33.073055		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	6/19/2012	33	11493	217.4	251.004332	-33.604332		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	9/13/2012	33	11579	216.7	251.343192	-34.643192		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	12/8/2012	33	11665	218.9	251.556858	-32.656858		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	3/20/2013	34	11767	220.9	253.449107	-32.549107		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	6/19/2013	34	11858	219.8	254.77374	-34.97374		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	9/12/2013	34	11943	218.6	255.635451	-37.035451		-9	401
3544407	6590720.817	20107311.19	80	128	1520753	564150	8	12/18/2013	34	12040	220.7	256.371915	-35.671915		-9	401
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	3/18/2010	31	10669	222.2	255.108473	-32.908473		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	9/2/2010	31	10837	218.6	254.291216	-35.691216		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	12/2/2010	31	10928	218.6	254.108905	-35.508905		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	3/10/2011	32	11026	219.6	252.237218	-32.637218		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	5/5/2011	32	11082	218.2	251.40995	-33.20995		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	8/16/2011	32	11185	214	250.478438	-36.478438		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	11/12/2011	32	11273	214.4	249.924941	-35.524941		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	3/7/2012	33	11389	216.4	250.933156	-34.533156		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	6/19/2012	33	11493	217.4	251.775347	-34.375347		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	9/13/2012	33	11579	216.4	252.119332	-35.719332		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	12/8/2012	33	11665	218.7	252.336265	-33.636265		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	3/20/2013	34	11767	220.6	254.225977	-33.625977		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	6/19/2013	34	11858	219.6	255.570176	-35.970176		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	9/12/2013	34	11943	218.8	256.446955	-37.646955		-90	370
3544408	6589391.317	20106962.22	80	128	1520753	564150	8	12/18/2013	34	12040	220.4	257.197438	-36.797438		-90	370
3544504	6593997.631	20114467.41	80	129	1586370	614617	9	5/20/1986	7	1966	234	242.282171	-8.282171	-225	-225	376
3544504	6593997.631	20114467.41	80	129	1586370	614617	9	3/16/1988	9	2632	233.44	239.831145	-6.391145	-225	-225	376
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	11/18/2005	26	9088	218.6	233.062799	-14.462799	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	7/4/2006	27	9316	215.2	236.817255	-21.617255	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	8/2/2006	27	9345	214.7	236.583802	-21.883802	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	9/2/2006	27	9376	213.2	236.044594	-22.844594	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	10/3/2006	27	9407	213.2	235.967316	-22.767316	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	11/2/2006	27	9437	213.4	235.974413	-22.574413	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	12/2/2006	27	9467	213.7	236.01151	-22.31151	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	1/3/2007	28	9499	213.4	235.877655	-22.477655	-183	-188	357

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	2/2/2007	28	9529	214.4	236.501986	-22.101986	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	3/2/2007	28	9557	214.6	236.830192	-22.230192	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	4/3/2007	28	9589	214.9	237.155191	-22.255191	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	5/2/2007	28	9618	214.8	237.296162	-22.496162	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	6/2/2007	28	9649	214	237.176159	-23.176159	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	7/3/2007	28	9680	213.5	237.139265	-23.639265	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	8/2/2007	28	9710	213.8	237.285684	-23.485684	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	10/2/2007	28	9771	212.6	237.030998	-24.430998	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	11/2/2007	28	9802	212.5	237.029259	-24.529259	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	1/3/2008	29	9864	211.8	236.868012	-25.068012	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	2/2/2008	29	9894	211.4	236.542275	-25.142275	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	3/4/2008	29	9925	211.2	236.295434	-25.095434	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	4/2/2008	29	9954	210.8	236.034224	-25.234224	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	5/1/2008	29	9983	210.5	235.828368	-25.328368	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	7/1/2008	29	10044	210.6	235.692309	-25.092309	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	9/1/2008	29	10106	210	235.417676	-25.417676	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	10/1/2008	29	10136	204.8	233.81813	-29.01813	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	11/1/2008	29	10167	209.4	235.170755	-25.770755	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	12/1/2008	29	10197	209.8	235.264263	-25.464263	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	1/1/2009	30	10228	209.7	235.206888	-25.506888	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	2/1/2009	30	10259	210	235.536941	-25.536941	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	3/1/2009	30	10287	209.2	235.479399	-26.279399	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	4/2/2009	30	10319	210.4	235.975182	-25.575182	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	6/2/2009	30	10380	207.4	235.210483	-27.810483	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	7/2/2009	30	10410	208.2	235.489093	-27.289093	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	8/4/2009	30	10443	210.6	236.210887	-25.610887	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	9/2/2009	30	10472	210	236.032464	-26.032464	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	10/2/2009	30	10502	211.2	236.389211	-25.189211	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	11/3/2009	30	10534	212.4	236.7353	-24.3353	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	12/3/2009	30	10564	211.8	236.542258	-24.742258	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	1/13/2010	31	10605	211.6	236.362785	-24.762785	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	2/4/2010	31	10627	213.1	236.59992	-23.49992	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	3/3/2010	31	10654	213.2	236.401618	-23.201618	-183	-188	357
3544505	6592984.622	20119385.46	79	129	1586031	614343	9	4/6/2010	31	10688	210.2	235.274912	-25.074912	-183	-188	357
3544506	6603339.319	20107627.29	82	130	1587163	615327	9	9/10/2011	32	11210	211.4	225.223743	-13.823743		-123	317
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	3/18/2010	31	10669	222.1	250.359171	-28.259171		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	9/2/2010	31	10837	216.8	249.649476	-32.849476		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	12/2/2010	31	10928	218.4	249.49499	-31.09499		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	3/10/2011	32	11026	219.1	247.64181	-28.54181		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	5/5/2011	32	11082	217.7	246.898107	-29.198107		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	8/16/2011	32	11185	213.4	246.077807	-32.677807		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	11/12/2011	32	11273	214.2	245.596849	-31.396849		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	3/7/2012	33	11389	216.7	246.697441	-29.997441		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	6/19/2012	33	11493	216.5	247.477299	-30.977299		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	9/13/2012	33	11579	215.4	247.793522	-32.393522		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	12/8/2012	33	11665	218	247.991305	-29.991305		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	3/20/2013	34	11767	220.1	249.836879	-29.736879		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	6/19/2013	34	11858	219	251.055479	-32.055479		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	9/12/2013	34	11943	216.8	251.833664	-35.033664		31	371
3544507	6592334.026	20114294.41	79	129	1520283	563838	8	12/18/2013	34	12040	219.6	252.489019	-32.889019		31	371

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	2/20/2010	31	10643	220.2	252.007437	-31.807437		-45	395
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	9/2/2010	31	10837	208.6	251.02809	-42.42809		-45	395
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	12/2/2010	31	10928	214	250.861867	-36.861867		-45	395
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	3/10/2011	32	11026	215	248.938882	-33.938882		-45	395
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	5/5/2011	32	11082	214.5	248.157905	-33.657905		-45	395
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	8/16/2011	32	11185	209.2	247.291889	-38.091889		-45	395
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	11/12/2011	32	11273	211.8	246.780074	-34.980074		-45	395
3544508	6593482.419	20109413.37	80	129	1520754	564151	8	3/7/2012	33	11389	214.3	247.896222	-33.596222		-45	395
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	2/20/2010	31	10643	220.8	250.98791	-30.18791		-70	370
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	9/2/2010	31	10837	211.6	250.033278	-38.433278		-70	370
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	12/2/2010	31	10928	215.2	249.872321	-34.672321		-70	370
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	3/10/2011	32	11026	216.3	247.941739	-31.641739		-70	370
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	5/5/2011	32	11082	216	247.175624	-31.175624		-70	370
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	8/16/2011	32	11185	212.3	246.330301	-34.030301		-70	370
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	11/12/2011	32	11273	213.7	245.832025	-32.132025		-70	370
3544509	6594294.555	20110690.1	80	129	1520754	564151	8	3/7/2012	33	11389	216.1	246.975451	-30.875451		-70	370
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	2/20/2010	31	10643	205.6	252.010287	-46.410287		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	9/2/2010	31	10837	199.8	251.05274	-51.25274		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	12/2/2010	31	10928	201.4	250.891109	-49.491109		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	3/10/2011	32	11026	202	249.044585	-47.044585		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	5/5/2011	32	11082	200.7	248.279655	-47.579655		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	8/16/2011	32	11185	196.4	247.430129	-51.030129		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	11/12/2011	32	11273	197.1	246.930315	-49.830315		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	3/7/2012	33	11389	199.7	247.997179	-48.297179		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	6/19/2012	33	11493	199.7	248.793664	-49.093664		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	9/13/2012	33	11579	198.6	249.117768	-50.517768		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	12/8/2012	33	11665	201.1	249.320878	-48.220878		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	3/20/2013	34	11767	203.2	251.171734	-47.971734		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	6/19/2013	34	11858	202.1	252.423766	-50.323766		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	9/12/2013	34	11943	200.3	253.228164	-52.928164		-19	381
3544510	6590978.22	20112737.63	80	128	1520753	564150	8	12/18/2013	34	12040	202.7	253.908416	-51.208416		-19	381
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	4/3/1981	2	93	251.6	264.347448	-12.747448	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	7/4/2006	27	9316	202.8	259.848961	-57.048961	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	8/2/2006	27	9345	224.6	259.734771	-35.134771	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	9/2/2006	27	9376	224.5	259.612707	-35.112707	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	10/3/2006	27	9407	222.8	259.504453	-36.704453	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	11/2/2006	27	9437	224.8	259.425025	-34.625025	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	12/2/2006	27	9467	222.8	259.345597	-36.545597	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	1/3/2007	28	9499	225	259.288601	-34.288601	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	2/2/2007	28	9529	204.3	260.041001	-55.741001	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	3/2/2007	28	9557	225	260.606342	-35.606342	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	4/3/2007	28	9589	225.1	260.968678	-35.868678	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	5/2/2007	28	9618	223.4	261.223103	-37.823103	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	6/2/2007	28	9649	225	261.384565	-36.384565	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	7/3/2007	28	9680	225.3	261.536763	-36.236763	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	8/2/2007	28	9710	225.1	261.612753	-36.512753	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	9/4/2007	28	9743	225	261.696341	-36.696341	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	10/2/2007	28	9771	226.3	261.755722	-35.455722	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	11/2/2007	28	9802	226.3	261.797381	-35.497381	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	12/4/2007	28	9834	225.6	261.840384	-36.240384	-67	-180	375

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	1/3/2008	29	9864	224.8	261.863686	-37.063686	-67	-180	375
3544703	6589969.731	20093385.15	83	126	1522281	565032	8	2/2/2008	29	9894	219.3	261.393602	-42.093602	-67	-180	375
3544705	6588371.144	20095547.29	82	126	1521786	564743	8	6/19/2012	33	11493	221.4	255.82466	-34.42466		-18	322
3544705	6588371.144	20095547.29	82	126	1521786	564743	8	9/13/2012	33	11579	220.4	256.194667	-35.794667		-18	322
3544705	6588371.144	20095547.29	82	126	1521786	564743	8	12/12/2012	33	11669	221.9	256.441109	-34.541109		-18	322
3544705	6588371.144	20095547.29	82	126	1521786	564743	8	3/21/2013	34	11768	223.5	258.400017	-34.900017		-18	322
3544705	6588371.144	20095547.29	82	126	1521786	564743	8	9/17/2013	34	11948	222.1	260.916195	-38.816195		-18	322
3544705	6588371.144	20095547.29	82	126	1521786	564743	8	12/19/2013	34	12041	223.5	261.737887	-38.237887		-18	322
3544804	6595989.563	20105339.22	81	129	1586712	614907	9	4/12/1988	9	2659	222.47	236.579109	-14.109109	-256	-268	362
3544805	6597738.668	20101166.92	82	128	1587161	615325	9	12/15/1984	5	1445	247	251.116119	-4.116119		50	320
3544806	6597657.997	20101061.49	82	128	1521788	564745	8	4/16/1991	12	3758	226	236.499189	-10.499189	-97	-97	323
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	3/20/1981	2	79	254.5	240.87429	13.62571	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/18/1981	2	322	252.8	241.228108	11.571892	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/23/1982	3	692	253.59	240.607765	12.982235	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/18/1983	4	1052	246.06	243.166658	2.893342	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/3/1984	5	1403	249.78	242.69476	7.08524	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/5/1985	6	1770	247.1	239.177846	7.922154	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/13/1986	7	2143	246.89	233.068999	13.821001	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	2/10/1988	9	2597	248.93	231.499445	17.430555	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	10/19/1988	9	2849	248.65	231.999374	16.650626	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	10/18/1989	10	3213	253.09	234.261504	18.828496	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/15/1990	11	3606	256.7	230.9406	25.7594	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/13/1992	13	4335	252.33	220.746525	31.583475	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	12/16/1993	14	4733	251.16	216.548875	34.611125	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/9/1994	15	5061	252.58	213.543424	39.036576	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/10/1995	16	5427	252.19	214.099717	38.090283	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/23/1996	17	5806	255.25	203.173158	52.076842	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/12/1997	18	6160	255.38	204.810649	50.569351	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/12/1998	19	6525	254.2	212.761294	41.438706	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/13/1999	20	6891	255.06	223.466623	31.593377	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/30/2000	21	7274	254.4	216.551068	37.848932	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/6/2001	22	7615	254.85	213.282109	41.567891	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/4/2003	24	8343	250.11	178.721904	71.388096	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/3/2004	25	8708	254.2	205.855626	48.344374	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	12/10/2005	26	9110	248.25	231.360024	16.889976	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/8/2006	27	9443	249.25	229.321397	19.928603	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/21/2007	28	9821	243.31	232.404887	10.905113	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/20/2008	29	10186	249.23	230.783525	18.446475	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	12/2/2009	30	10563	246.03	232.374323	13.655677	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/2/2010	31	10898	248.9	229.819714	19.080286	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	10/20/2011	32	11250	244.02	225.320662	18.699338	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/8/2012	33	11635	247	227.68041	19.31959	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	2/5/2013	34	11724	248	228.86171	19.13829	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	3/6/2013	34	11753	248.3	229.537235	18.762765	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	4/3/2013	34	11781	248.5	230.005449	18.494551	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	5/3/2013	34	11811	248.6	230.443022	18.156978	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	6/7/2013	34	11846	246.9	230.869133	16.030867	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	7/4/2013	34	11873	246.6	231.18333	15.41667	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	8/2/2013	34	11902	245.1	231.459327	13.640673	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	9/4/2013	34	11935	245.3	231.773393	13.526607	-86	-86	310

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	10/2/2013	34	11963	246.6	232.017874	14.582126	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	11/5/2013	34	11997	247.2	232.271599	14.928401	-86	-86	310
3545701	6628926.934	20093387.03	86	133	1588735	616578	9	12/4/2013	34	12026	247.7	232.488012	15.211988	-86	-86	310
3545705	6622611.262	20106454.37	84	133	1442588	520463	7	9/15/1984	5	1354	242	255.411568	-13.411568	180	170	270
3545706	6622696.898	20106458.65	84	133	1522819	565356	8	11/2/1984	5	1402	225	230.400955	-5.400955	-50	-50	270
3545802	6633791.061	20093934.96	87	134	1589084	616888	9	9/26/1983	4	999	170	219.750433	-49.750433	-120	-120	270
3545802	6633791.061	20093934.96	87	134	1589084	616888	9	6/19/1986	7	1996	175.97	216.035028	-40.065028	-120	-120	270
3545901	6650368.146	20103795.21	87	137	1589087	616891	9	6/18/1986	7	1995	234.88	231.520393	3.359607		-32	328
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	3/20/1981	2	79	242.04	250.853276	-8.813276		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/12/1981	2	316	242.88	254.379059	-11.499059		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/17/1982	3	686	241.01	253.980575	-12.970575		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/18/1983	4	1052	242.85	254.124508	-11.274508		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/1/1984	5	1401	240.64	255.299406	-14.659406		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	12/7/1985	6	1802	239.66	254.297137	-14.637137		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/16/1986	7	2146	240.09	252.057356	-11.967356		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	2/6/1988	9	2593	242.01	251.606001	-9.596001		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	10/16/1988	9	2846	275.38	253.626144	21.753856		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	10/18/1989	10	3213	277.58	255.059353	22.520647		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/15/1990	11	3606	277.76	254.456163	23.303837		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/6/1991	12	3962	280.47	253.210129	27.259871		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/12/1992	13	4334	275.35	254.614641	20.735359		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	12/17/1993	14	4734	240.51	252.412982	-11.902982		143	290
3546202	6676794.941	20133739.49	84	145	1522890	565427	8	11/17/1994	15	5069	241.04	251.576431	-10.536431		143	290
3546701	6665037.206	20103832.69	88	140	1589438	617189	9	11/18/1981	2	322	232.23	224.358882	7.871118		-147	290
3546701	6665037.206	20103832.69	88	140	1589438	617189	9	11/23/1982	3	692	232.78	224.28411	8.49589		-147	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/7/2001	22	7616	238	218.729062	19.270938		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/8/2002	23	7982	233.35	208.212961	25.137039		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/4/2003	24	8343	231.36	207.86703	23.49297		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/3/2004	25	8708	221.5	214.879952	6.620048		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	12/10/2005	26	9110	217.17	222.900191	-5.730191		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/8/2006	27	9443	224.38	221.646477	2.733523		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/21/2007	28	9821	213.62	223.21185	-9.59185		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/20/2008	29	10186	221.6	222.367896	-0.767896		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	12/2/2009	30	10563	234.9	223.054952	11.845048		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/2/2010	31	10898	233.8	221.777036	12.022964		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	11/8/2012	33	11635	227.6	220.788461	6.811539		10	290
3546703	6655581.306	20105885.06	87	138	1589088	616892	9	12/10/2013	34	12032	231	223.597747	7.402253		10	290
3547205	6712049.195	20128476.3	88	150	1589451	617202	9	5/21/1986	7	1967	266.93	267.42315	-0.49315	199	199	359
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	3/20/1981	2	79	330.55	270.360972	60.189028	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/17/1981	2	321	329.2	270.212043	58.987957	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/21/1982	3	690	330.84	269.732257	61.107743	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/18/1983	4	1052	328.24	269.880281	58.359719	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/5/1985	6	1770	338.03	270.293843	67.736157	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/13/1986	7	2143	341.36	267.831991	73.528009	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	2/10/1988	9	2597	336.85	266.889087	69.960913	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	10/19/1988	9	2849	327.63	268.67979	58.95021	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	10/18/1989	10	3213	331.99	270.634876	61.355124	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/16/1990	11	3607	345.03	292.809285	52.220715	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/5/1991	12	3961	341	269.970825	71.029175	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	12/18/1992	13	4370	346.97	271.381783	75.588217	311	311	349

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	12/17/1993	14	4734	342.17	270.228215	71.941785	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/9/1994	15	5061	346.22	268.673419	77.546581	311	311	349
3547501	6714858.084	20117470.08	90	149	1525598	567283	8	11/10/1995	16	5427	334.95	269.550887	65.399113	311	311	349
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	3/20/1981	2	79	282.52	268.557995	13.962005	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/1/1984	5	1401	272.62	269.237295	3.382705	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	2/10/1988	9	2597	270.61	265.337587	5.272413	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	2/10/1988	9	2597	269	265.337587	3.662413	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	10/19/1988	9	2849	265.47	267.693789	-2.223789	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	10/15/1989	10	3210	270.6	269.556941	1.043059	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/16/1990	11	3607	276.52	268.826837	7.693163	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/5/1991	12	3961	262.95	268.102103	-5.152103	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	12/18/1992	13	4370	278	269.938317	8.061683	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/12/1993	14	4699	275.57	268.04981	7.52019	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/10/1995	16	5427	264.71	268.175358	-3.465358	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/22/1996	17	5805	263.35	266.272775	-2.922775	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/12/1997	18	6160	265.3	267.320361	-2.020361	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/12/1998	19	6525	264.3	268.068805	-3.768805	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/5/2003	24	8344	262.96	267.475133	-4.515133	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/3/2004	25	8708	262.45	267.690996	-5.240996	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	12/10/2005	26	9110	268.62	268.532875	0.087125	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/21/2007	28	9821	263.71	267.514694	-3.804694	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/20/2008	29	10186	265.46	267.180496	-1.720496	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	12/2/2009	30	10563	258	266.519989	-8.519989	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/3/2010	31	10899	255	262.751036	-7.751036	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	10/20/2011	32	11250	249.9	260.477872	-10.577872	71	71	341
3547502	6713737.658	20125725.77	89	150	1589715	617428	9	11/10/2012	33	11637	259.7	265.520378	-5.820378	71	71	341
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/10/1988	9	2871	290.5	273.659757	16.840243	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/6/2001	22	7615	286.5	266.779382	19.720618	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/7/2002	23	7981	271.9	265.582938	6.317062	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/5/2003	24	8344	272	265.934419	6.065581	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/3/2004	25	8708	260.35	264.386029	-4.036029	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/8/2006	27	9443	262.97	265.1864	-2.2164	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/21/2007	28	9821	282.39	265.950603	16.439397	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/20/2008	29	10186	280.8	265.615028	15.184972	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	12/2/2009	30	10563	290.25	264.960732	25.289268	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/3/2010	31	10899	257.95	262.544887	-4.594887	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	10/20/2011	32	11250	270.73	265.62942	5.10058	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	11/10/2012	33	11637	278.8	263.963704	14.836296	148	148	343
3547503	6714848.506	20122539.34	89	150	1589715	617428	9	12/11/2013	34	12033	277.1	266.297012	10.802988	148	148	343
3547701	6700538.423	20097656.44	92	145	1590559	618153	9	6/25/1986	7	2002	218.66	226.363641	-7.703641	19	19	300
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	3/20/1981	2	79	277.67	288.156371	-10.486371		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/17/1981	2	321	256.48	287.805703	-31.325703		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/21/1982	3	690	258.34	287.179724	-28.839724		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/18/1983	4	1052	252.46	287.400615	-34.940615		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/1/1984	5	1401	281.83	289.265192	-7.435192		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/5/1985	6	1770	271.3	288.197572	-16.897572		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	5/15/1986	7	1961	272.12	286.18472	-14.06472		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	2/10/1988	9	2597	291.95	285.095694	6.854306		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	10/19/1988	9	2849	255.3	288.230685	-32.930685		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	10/18/1989	10	3213	265.31	290.19252	-24.88252		183	325

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/16/1990	11	3607	277.9	289.201083	-11.301083		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/7/1991	12	3963	280.19	288.440974	-8.250974		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	12/18/1992	13	4370	287.94	290.930827	-2.990827		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	12/17/1993	14	4734	276.25	288.078807	-11.828807		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/9/1994	15	5061	291.45	286.139316	5.310684		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/10/1995	16	5427	286.82	288.827489	-2.007489		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/22/1996	17	5805	294.3	286.231736	8.068264		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/12/1997	18	6160	296.9	288.085101	8.814899		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/12/1998	19	6525	295.1	288.626549	6.473451		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/13/1999	20	6891	294.7	291.197271	3.502729		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/29/2000	21	7273	293.6	290.17446	3.42554		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/6/2001	22	7615	290.08	288.852579	1.227421		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/8/2002	23	7982	290.9	287.975904	2.924096		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/5/2003	24	8344	292.2	288.744311	3.455689		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	12/10/2005	26	9110	289.6	289.402657	0.197343		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/8/2006	27	9443	289.33	288.420544	0.909456		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/21/2007	28	9821	292.72	287.948473	4.771527		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	12/2/2009	30	10563	295.05	286.562089	8.487911		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/3/2010	31	10899	290.33	286.294491	4.035509		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	10/20/2011	32	11250	288.77	285.181872	3.588128		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/8/2012	33	11635	292.9	285.853367	7.046633		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	2/8/2013	34	11727	295.1	286.425797	8.674203		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	3/6/2013	34	11753	295.9	286.716689	9.183311		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	4/3/2013	34	11781	296	287.001255	8.998745		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	5/3/2013	34	11811	295.7	287.280584	8.419416		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	6/7/2013	34	11846	295.2	287.572807	7.627193		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	7/3/2013	34	11872	294.3	287.781765	6.518235		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	8/2/2013	34	11902	293.5	287.977648	5.522352		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	9/4/2013	34	11935	292.4	288.19312	4.20688		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	10/2/2013	34	11963	291.9	288.358249	3.541751		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	11/5/2013	34	11997	292.1	288.524058	3.575942		183	325
3548101	6740178.26	20136456.43	89	155	1525163	566901	8	12/4/2013	34	12026	293.2	288.665484	4.534516		183	325
3548202	6746074.989	20140016.85	89	157	1525165	566903	8	8/25/1983	4	967	278	284.053836	-6.053836	140	137	301
3548203	6748468.562	20140145.17	90	157	1525642	567327	8	12/4/1985	6	1799	265	280.488245	-15.488245	124	124	332
3549104	6474815.1	20070996.96	76	105	1436602	516653	7	7/29/2011	32	11167	354.1	299.647204	54.452796		242	392
3549104	6474815.1	20070996.96	76	105	1436602	516653	7	11/9/2011	32	11270	353.3	297.716749	55.583251		242	392
3549104	6474815.1	20070996.96	76	105	1436602	516653	7	3/24/2012	33	11406	352.7	296.754649	55.945351		242	392
3549104	6474815.1	20070996.96	76	105	1436602	516653	7	6/15/2012	33	11489	352.9	296.799288	56.100712		242	392
3549203	6484138.386	20085127.89	74	108	1518396	562472	8	3/20/1981	2	79	218.5	215.842398	2.657602		-54	538
3549210	6480409.524	20074718.91	76	107	1436606	516657	7	9/13/2005	26	9022	263	288.679763	-25.679763	-14	-24	572
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	3/24/2012	33	11406	357.1	300.057643	57.042357		193	513
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	6/15/2012	33	11489	356.9	300.189407	56.710593		193	513
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	9/12/2012	33	11578	356.1	300.398353	55.701647		193	513
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	12/14/2012	33	11671	356.8	300.650509	56.149491		193	513
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	3/22/2013	34	11769	356.3	302.760385	53.539615		193	513
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	6/18/2013	34	11857	355.8	305.138889	50.661111		193	513
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	9/13/2013	34	11944	355.5	307.344535	48.155465		193	513
3549306	6490322.343	20081255.42	76	109	1436608	516659	7	12/21/2013	34	12043	355.7	309.602228	46.097772		193	513
3549405	6465158.99	20068450.67	75	104	1518707	562694	8	4/1/1984	5	1187	234	230.164815	3.835185	-425	-425	478
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	7/30/2011	32	11168	353.2	310.600456	42.599544		276	416

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	11/9/2011	32	11270	352.4	308.826197	43.573803		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	3/24/2012	33	11406	352.2	308.28705	43.91295		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	6/15/2012	33	11489	352.2	308.510733	43.689267		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	9/12/2012	33	11578	351.8	308.739495	43.060505		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	12/14/2012	33	11671	351.6	308.987999	42.612001		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	3/22/2013	34	11769	351.4	311.957552	39.442448		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	6/18/2013	34	11857	351.2	314.580738	36.619262		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	9/13/2013	34	11944	351.1	316.774107	34.325893		276	416
3549406	6475948.022	20059614.25	78	104	1342617	477757	6	12/14/2013	34	12036	351	318.779946	32.220054		276	416
3549407	6470732.66	20064232.62	77	104	1437261	517137	7	12/2/2010	31	10928	316.1	307.020051	9.079949		253	373
3549407	6470732.66	20064232.62	77	104	1437261	517137	7	3/5/2011	32	11021	317	305.481179	11.518821		253	373
3549407	6470732.66	20064232.62	77	104	1437261	517137	7	4/22/2011	32	11069	315.3	304.497886	10.802114		253	373
3549407	6470732.66	20064232.62	77	104	1437261	517137	7	7/20/2011	32	11158	312.2	302.750078	9.449922		253	373
3549407	6470732.66	20064232.62	77	104	1437261	517137	7	11/9/2011	32	11270	330.5	300.684037	29.815963		253	373
3549407	6470732.66	20064232.62	77	104	1437261	517137	7	3/24/2012	33	11406	335.1	299.887039	35.212961		253	373
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/13/1981	2	317	286.57	233.202386	53.367614		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/20/1982	3	689	278.16	229.608955	48.551045		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/19/1983	4	1053	279	231.269542	47.730458		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/11/1987	8	2506	291.52	225.710186	65.809814		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/10/1988	9	2871	296.3	214.339342	81.960658		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	10/15/1989	10	3210	300.7	229.408572	71.291428		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/14/1990	11	3605	302.4	237.325911	65.074089		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	12/11/1991	12	3997	307.95	241.200913	66.749087		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/19/1992	13	4341	309.8	243.223046	66.576954		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	3/24/1993	14	4466	311.5	246.579445	64.920555		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	12/15/1993	14	4732	311.27	242.539948	68.730052		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/17/1995	16	5434	311.14	236.83442	74.30558		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/22/1996	17	5805	305.85	229.483367	76.366633		-130	455
3549502	6479132.416	20063205.92	78	105	1519827	563509	8	11/21/1997	18	6169	301.25	234.912841	66.337159		-130	455
3549511	6487313.619	20062667.94	78	107	1585688	614057	9	8/3/1984	5	1311	148	201.982436	-53.982436	-740	-884	420
3549511	6487313.619	20062667.94	78	107	1585688	614057	9	6/10/1988	9	2718	179	206.156949	-27.156949	-740	-884	420
3549512	6487552.706	20055582.83	80	106	1520717	564114	8	9/20/1981	2	263	205	229.887464	-24.887464	-545	-562	375
3549601	6501832.214	20058775.36	80	109	1520722	564119	8	3/13/1981	2	72	212	234.222343	-22.222343	-278	-281	500
3549606	6499583.534	20068403.1	79	109	1438678	518113	7	5/20/1988	9	2697	358	334.481244	23.518756	276	276	510
3549606	6499583.534	20068403.1	79	109	1438678	518113	7	11/16/1988	9	2877	403.95	351.396876	52.553124	276	276	510
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	9/2/2009	30	10472	255.9	243.486243	12.413757		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	2/19/2010	31	10642	257.3	241.07409	16.22591		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	9/2/2010	31	10837	253.5	237.996974	15.503026		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	12/2/2010	31	10928	253.1	237.343164	15.756836		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	3/5/2011	32	11021	255.2	233.269278	21.930722		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	4/22/2011	32	11069	254.3	231.341615	22.958385		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	8/4/2011	32	11173	250.9	228.676809	22.223191		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	11/9/2011	32	11270	249.9	226.796145	23.103855		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	3/24/2012	33	11406	253.4	228.524983	24.875017		-76	474
3549607	6501144.288	20066772.13	79	109	1520254	563809	8	9/13/2013	34	11944	246.5	239.245675	7.254325		-76	474
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	9/2/2009	30	10472	415.2	329.174634	86.025366		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	2/19/2010	31	10642	416.8	328.158583	88.641417		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	12/2/2010	31	10928	414	326.703773	87.296227		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	3/5/2011	32	11021	414.2	325.25607	88.94393		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	4/22/2011	32	11069	413.8	324.266047	89.533953		307	467

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	8/4/2011	32	11173	413.3	322.314514	90.985486		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	11/9/2011	32	11270	412.4	320.694817	91.705183		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	3/24/2012	33	11406	412.8	320.181274	92.618726		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	6/15/2012	33	11489	413	320.556085	92.443915		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	9/12/2012	33	11578	412	320.926695	91.073305		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	12/14/2012	33	11671	410.4	321.271015	89.128985		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	3/22/2013	34	11769	411.6	324.051466	87.548534		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	6/18/2013	34	11857	411.3	326.803397	84.496603		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	9/13/2013	34	11944	410.2	329.170266	81.029734		307	467
3549608	6501165.514	20064644.34	79	109	1343500	478039	6	12/14/2013	34	12036	409.9	331.303741	78.596259		307	467
3549609	6501638.084	20069086	79	110	1343501	478040	6	2/11/2010	31	10634	408.9	326.945338	81.954662		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	9/2/2010	31	10837	409.1	325.863877	83.236123		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	12/2/2010	31	10928	408.6	325.431314	83.168686		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	3/5/2011	32	11021	408.4	323.998632	84.401368		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	4/22/2011	32	11069	408	323.008735	84.991265		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	8/4/2011	32	11173	407.8	321.04999	86.75001		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	11/9/2011	32	11270	407.1	319.420391	87.679609		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	3/24/2012	33	11406	407	318.876057	88.123943		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	6/15/2012	33	11489	407	319.242313	87.757687		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	9/12/2012	33	11578	406.6	319.607444	86.992556		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	12/13/2012	33	11670	406.2	319.944996	86.255004		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	3/22/2013	34	11769	406.2	322.679727	83.520273		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	6/18/2013	34	11857	406.2	325.399495	80.800505		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	9/13/2013	34	11944	405.6	327.740619	77.859381		312	482
3549609	6501638.084	20069086	79	110	1343501	478040	6	12/14/2013	34	12036	405.6	329.855933	75.744067		312	482
3549610	6499208.074	20066500.11	79	109	1343497	478036	6	2/11/2010	31	10634	409.9	352.231141	57.668859		311	491
3549610	6499208.074	20066500.11	79	109	1343497	478036	6	5/2/2010	31	10714	409.7	351.867105	57.832895		311	491
3549610	6499208.074	20066500.11	79	109	1343497	478036	6	9/2/2010	31	10837	409.5	351.365407	58.134593		311	491
3549610	6499208.074	20066500.11	79	109	1343497	478036	6	12/2/2010	31	10928	408.3	350.704353	57.595647		311	491
3549610	6499208.074	20066500.11	79	109	1343497	478036	6	3/5/2011	32	11021	408.1	349.634755	58.465245		311	491
3549610	6499208.074	20066500.11	79	109	1343497	478036	6	4/22/2011	32	11069	407.9	348.885283	59.014717		311	491
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/13/1981	2	317	320.2	336.032873	-15.832873	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/20/1982	3	689	319.96	333.765769	-13.805769	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/19/1983	4	1053	316.26	333.918518	-17.658518	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/10/1984	5	1410	325.39	339.510994	-14.120994	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/6/1985	6	1771	323.58	335.970354	-12.390354	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/6/1986	7	2136	326.17	325.242897	0.927103	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/11/1987	8	2506	326.1	324.747481	1.352519	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/10/1988	9	2871	327.25	334.970192	-7.720192	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	10/14/1989	10	3209	327.45	338.568576	-11.118576	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	12/11/1991	12	3997	327.3	336.489546	-9.189546	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/19/1992	13	4341	328.3	343.413444	-15.113444	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	3/24/1993	14	4466	331.5	340.235946	-8.735946	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/16/1995	16	5433	329.08	335.894693	-6.814693	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/22/1996	17	5805	324.42	326.57098	-2.15098	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/21/1997	18	6169	321.25	332.203438	-10.953438	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	12/17/1998	19	6560	328.55	332.576407	-4.026407	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/11/1999	20	6889	328.2	340.212153	-12.012153	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	12/21/2000	21	7295	328.35	340.686461	-12.336461	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/7/2001	22	7616	328.5	337.558536	-9.058536	111	96	371

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/14/2002	23	7988	327.88	335.220482	-7.340482	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/12/2003	24	8351	327.7	337.21097	-9.51097	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	12/3/2004	25	8738	326.43	336.447224	-10.017224	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	12/8/2005	26	9108	328.38	337.822233	-9.442233	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	4/20/2006	27	9241	326.44	336.375136	-9.935136	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/14/2006	27	9449	320.54	334.595642	-14.055642	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/14/2007	28	9814	324.71	333.22634	-8.51634	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/19/2008	29	10185	322.68	332.294638	-9.614638	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/20/2009	30	10551	321.56	328.910288	-7.350288	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/17/2010	31	10913	321.29	327.831475	-6.541475	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	10/26/2011	32	11256	316.47	322.584604	-6.114604	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/13/2012	33	11640	316.91	323.359065	-6.449065	111	96	371
3549801	6483457.295	20043737.92	81	104	1440176	519036	7	11/15/2013	34	12007	320.09	332.473008	-12.383008	111	96	371
3549806	6482864.175	20045434.33	81	104	1586687	614882	9	1/1/1981	2	1	198	213.64371	-15.64371	-413	-880	420
3549808	6487337.466	20054660.98	80	106	1439432	518576	7	7/16/1981	2	197	319.3	331.840991	-12.540991		115	415
3549809	6488401.176	20048323.48	81	106	1521214	564463	8	7/17/1981	2	198	206.6	233.218239	-26.618239		-390	382
3549811	6488022.976	20054692.44	80	106	1520717	564114	8	7/17/1981	2	198	299.1	258.831758	40.268242		-301	380
3549812	6484773.364	20048765.17	80	105	1586346	614593	9	1/1/1981	2	1	205	205.890034	-0.890034		-698	402
3549812	6484773.364	20048765.17	80	105	1586346	614593	9	7/16/1981	2	197	132.7	205.529656	-72.829656		-698	402
3549813	6482632.918	20050492.26	80	105	1520715	564112	8	12/21/1982	3	720	121	201.909	-80.909	-580	-585	422
3549814	6482716.031	20044920.66	81	104	1521212	564461	8	1/1/1981	2	1	188	244.544144	-56.544144	-423	-428	410
3549814	6482716.031	20044920.66	81	104	1521212	564461	8	3/12/1988	9	2628	28	231.221539	-203.22154	-423	-428	410
3549815	6482581.263	20040352.52	82	104	1587137	615301	9	9/3/1983	4	976	58	142.593947	-84.593947	-690	-795	335
3550105	6512106.462	20085203.96	77	113	1519421	563235	8	8/18/1988	9	2787	258	245.125407	12.874593	-57	-57	410
3550106	6512557.654	20071844.05	79	112	1520257	563812	8	7/6/1983	4	917	255	246.274772	8.725228	-210	-262	440
3550106	6512557.654	20071844.05	79	112	1520257	563812	8	12/17/1986	7	2177	180	215.497153	-35.497153	-210	-262	440
3550106	6512557.654	20071844.05	79	112	1520257	563812	8	3/13/1988	9	2629	182	214.636535	-32.636535	-210	-262	440
3550106	6512557.654	20071844.05	79	112	1520257	563812	8	11/15/1988	9	2876	180.1	214.045111	-33.945111	-210	-262	440
3550202	6519005.994	20073463.15	80	113	1439475	518619	7	4/22/1981	2	112	408.9	363.760954	45.139046		383	465
3550207	6527389.365	20085007.7	78	115	1519837	563519	8	2/28/1988	9	2615	256	249.860016	6.139984	-174	-174	412
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	11/13/1981	2	317	389.23	343.558932	45.671068		353	402
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	11/19/1982	3	688	389.89	341.574937	48.315063		353	402
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	11/19/1983	4	1053	387	342.117803	44.882197		353	402
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	11/6/1986	7	2136	389.23	334.422507	54.807493		353	402
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	11/11/1987	8	2506	388.47	333.648399	54.821601		353	402
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	12/9/1988	9	2900	388.7	345.019881	43.680119		353	402
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	10/14/1989	10	3209	388.71	349.269826	39.440174		353	402
3550302	6538535.508	20081580.73	80	117	1439526	518670	7	11/13/1990	11	3604	389.98	347.647192	42.332808		353	402
3550304	6529173.279	20085396.11	78	116	1519838	563520	8	8/6/1985	6	1679	246	252.041459	-6.041459	82	82	407
3550304	6529173.279	20085396.11	78	116	1519838	563520	8	3/16/1988	9	2632	241.7	243.810353	-2.110353	82	82	407
3550304	6529173.279	20085396.11	78	116	1519838	563520	8	11/16/1988	9	2877	239.3	243.8797	-4.5797	82	82	407
3550405	6510576.607	20068304.86	80	111	1439455	518599	7	5/2/2009	30	10349	407.9	357.425357	50.474643		318	438
3550405	6510576.607	20068304.86	80	111	1439455	518599	7	9/2/2009	30	10472	407	356.406499	50.593501		318	438
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	9/2/2009	30	10472	431.7	336.949242	94.750758		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	2/19/2010	31	10642	432.4	335.810529	96.589471		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	9/2/2010	31	10837	432.4	334.686641	97.713359		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	12/2/2010	31	10928	432.1	334.261193	97.838807		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	3/5/2011	32	11021	431.7	332.679233	99.020767		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	4/22/2011	32	11069	431.4	331.607764	99.792236		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	8/4/2011	32	11173	430.9	329.565733	101.33427		344	464

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	11/9/2011	32	11270	430.2	327.911244	102.28876		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	3/24/2012	33	11406	427.1	327.620334	99.479666		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	6/15/2012	33	11489	429.5	328.160757	101.33924		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	9/12/2012	33	11578	429.2	328.651175	100.54883		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	12/14/2012	33	11671	428.8	329.077399	99.722601		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	3/22/2013	34	11769	428.9	332.30298	96.59702		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	6/18/2013	34	11857	428.7	335.325345	93.374655		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	9/13/2013	34	11944	428.5	337.850731	90.649269		344	464
3550406	6510602.084	20062963.7	80	111	1439456	518600	7	12/14/2013	34	12036	428.9	340.085925	88.814075		344	464
3550407	6503314.286	20065889.37	79	110	1343501	478040	6	9/2/2009	30	10472	421	357.915683	63.084317		325	465
3550407	6503314.286	20065889.37	79	110	1343501	478040	6	2/19/2010	31	10642	423.4	357.913303	65.486697		325	465
3550407	6503314.286	20065889.37	79	110	1343501	478040	6	9/2/2010	31	10837	421.6	356.641905	64.958095		325	465
3550407	6503314.286	20065889.37	79	110	1343501	478040	6	12/2/2010	31	10928	421	356.162695	64.837305		325	465
3550407	6503314.286	20065889.37	79	110	1343501	478040	6	3/4/2011	32	11020	423.4	355.877864	67.522136		325	465
3550407	6503314.286	20065889.37	79	110	1343501	478040	6	4/22/2011	32	11069	422.8	354.978175	67.821825		325	465
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/13/1981	2	317	427.55	344.330509	83.219491		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/20/1982	3	689	426.12	341.515817	84.604183		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/19/1983	4	1053	430.01	341.940072	88.069928		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/10/1984	5	1410	428.96	350.104451	78.855549		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/6/1986	7	2136	429	332.618164	96.381836		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/11/1987	8	2506	428.4	331.198481	97.201519		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	12/9/1988	9	2900	428.31	344.446423	83.863577		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	10/14/1989	10	3209	431.9	350.026801	81.873199		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/13/1990	11	3604	429.95	348.943128	81.006872		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	12/11/1991	12	3997	431.44	345.150866	86.289134		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/18/1992	13	4340	430.35	353.064933	77.285067		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	12/14/1993	14	4731	430.55	341.865014	88.684986		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/18/1994	15	5070	429.4	333.862512	95.537488		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/16/1995	16	5433	430.57	341.571924	88.998076		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/22/1996	17	5805	427.53	330.050248	97.479752		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/22/1997	18	6170	429.6	335.982454	93.617546		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	12/17/1998	19	6560	429.99	337.612794	92.377206		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/10/1999	20	6888	429.1	349.477066	79.622934		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	12/21/2000	21	7295	428.25	350.448941	77.801059		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/8/2001	22	7617	430.2	344.257824	85.942176		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/14/2002	23	7988	429.59	338.490869	91.099131		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/12/2003	24	8351	427.95	341.591232	86.358768		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	12/3/2004	25	8738	428.66	341.752329	86.907671		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	12/8/2005	26	9108	428.34	347.108706	81.231294		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/15/2006	27	9450	426.28	343.267546	83.012454		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/14/2007	28	9814	427.55	342.129247	85.420753		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/22/2008	29	10188	425.37	340.56842	84.80158		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/20/2009	30	10551	426.44	337.254388	89.185612		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/17/2010	31	10913	426.03	335.251387	90.778613		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	10/26/2011	32	11256	424.65	328.941262	95.708738		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/13/2012	33	11640	423.8	330.234044	93.565956		412	460
3550501	6519262.413	20071650.28	80	113	1439479	518623	7	11/15/2013	34	12007	423.51	340.935443	82.574557		412	460
3550502	6525776.508	20068205.12	81	114	1440248	519108	7	3/18/1981	2	77	251.3	318.746497	-67.446497	56	48	420
3550505	6522559.461	20067243.12	81	113	1440229	519089	7	10/11/1988	9	2841	367	351.073721	15.926279	80	80	460
3550506	6517425.333	20070550.64	80	112	1439465	518609	7	9/20/1988	9	2820	280	342.018314	-62.018314	44	44	410

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3550506	6517425.333	20070550.64	80	112	1439465	518609	7	12/9/1988	9	2900	304.12	343.921004	-39.801004	44	44	410
3550507	6523692.022	20070550.23	80	113	1439489	518633	7	9/2/2010	31	10837	257.1	336.976701	-79.876701		97	393
3550507	6523692.022	20070550.23	80	113	1439489	518633	7	12/2/2010	31	10928	257.6	336.574665	-78.974665		97	393
3550507	6523692.022	20070550.23	80	113	1439489	518633	7	3/5/2011	32	11021	258.6	334.6321	-76.0321		97	393
3550507	6523692.022	20070550.23	80	113	1439489	518633	7	4/22/2011	32	11069	258.4	333.493176	-75.093176		97	393
3550507	6523692.022	20070550.23	80	113	1439489	518633	7	8/4/2011	32	11173	258.7	331.470636	-72.770636		97	393
3550507	6523692.022	20070550.23	80	113	1439489	518633	7	11/9/2011	32	11270	256	329.876862	-73.876862		97	393
3550507	6523692.022	20070550.23	80	113	1439489	518633	7	3/24/2012	33	11406	256.8	330.143726	-73.343726		97	393
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	2/20/2010	31	10643	463.2	338.326424	124.87358		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	5/2/2010	31	10714	463.6	337.825589	125.77441		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	9/2/2010	31	10837	463.7	337.12233	126.57767		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	12/2/2010	31	10928	463.4	336.693569	126.70643		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	3/5/2011	32	11021	463.3	334.927762	128.37224		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	4/22/2011	32	11069	463.6	333.795088	129.80491		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	8/4/2011	32	11173	463.8	331.704164	132.09584		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	11/9/2011	32	11270	463.4	330.034336	133.36566		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	3/24/2012	33	11406	460.6	329.962098	130.6379		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	9/12/2012	33	11578	460.8	331.13677	129.66323		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	12/19/2012	33	11676	460.4	331.624542	128.77546		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	3/22/2013	34	11769	463.3	335.130024	128.16998		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	6/18/2013	34	11857	463.5	338.287868	125.21213		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	9/24/2013	34	11955	463.6	341.201587	122.39841		388	498
3550508	6516583.987	20061367.32	81	111	1440207	519067	7	12/14/2013	34	12036	463.6	343.182124	120.41788		388	498
3550603	6533720.781	20061787.35	83	114	1441693	519892	7	8/1/1986	7	2039	418	343.580689	74.419311	290	280	440
3550603	6533720.781	20061787.35	83	114	1441693	519892	7	4/13/1988	9	2660	382	343.566613	38.433387	290	280	440
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	5/2/2009	30	10349	243	347.810526	-104.81053		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	9/2/2009	30	10472	240.1	346.67893	-106.57893		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	11/13/2009	30	10544	246.3	346.141757	-99.841757		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	2/20/2010	31	10643	243.9	345.446956	-101.54696		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	5/2/2010	31	10714	244.7	344.981122	-100.28112		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	9/2/2010	31	10837	244	344.33287	-100.33287		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	12/2/2010	31	10928	242.8	343.953316	-101.15332		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	1/27/2011	32	10984	243.3	343.300572	-100.00057		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	4/22/2011	32	11069	243.8	341.50246	-97.70246		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	8/4/2011	32	11173	239.9	339.593189	-99.693189		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	11/9/2011	32	11270	235.7	338.080997	-102.381		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	3/24/2012	33	11406	239.9	337.898316	-97.998316		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	6/19/2012	33	11493	238.3	338.58737	-100.28737		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	9/12/2012	33	11578	236.3	339.151766	-102.85177		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	12/12/2012	33	11669	235.9	339.643299	-103.7433		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	3/23/2013	34	11770	239.5	342.774348	-103.27435		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	6/26/2013	34	11865	238.9	346.012153	-107.11215		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	9/17/2013	34	11948	236.1	348.344232	-112.24423		4	424
3550605	6541482.368	20066513.93	83	116	1441700	519899	7	12/21/2013	34	12043	237.4	350.547924	-113.14792		4	424
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	12/2/2010	31	10928	264.3	72.587665	191.71234		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	1/27/2011	32	10984	263.2	62.735107	200.46489		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	4/22/2011	32	11069	262.8	49.158039	213.64196		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	8/4/2011	32	11173	260	46.237804	213.7622		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	11/9/2011	32	11270	260.4	44.649075	215.75093		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	3/24/2012	33	11406	253.2	61.259168	191.94083		91	499

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	6/19/2012	33	11493	251	64.500264	186.49974		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	9/12/2012	33	11578	251.3	65.30083	185.99917		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	12/12/2012	33	11669	259.1	65.763694	193.33631		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	6/26/2013	34	11865	249.6	83.961281	165.63872		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	9/17/2013	34	11948	248.3	85.915353	162.38465		91	499
3550606	6539630.71	20057758.36	84	115	1522795	565332	8	12/21/2013	34	12043	260.1	87.707109	172.39289		91	499
3550704	6510679.345	20055030.13	82	110	1521770	564727	8	1/1/1981	2	1	228	237.067427	-9.067427	-120	-120	440
3550704	6510679.345	20055030.13	82	110	1521770	564727	8	4/13/1988	9	2660	224.5	222.973396	1.526604	-120	-120	440
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	5/2/2009	30	10349	292	341.038344	-49.038344		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	9/2/2009	30	10472	290.1	339.8592	-49.7592		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	2/20/2010	31	10643	291.7	338.631565	-46.931565		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	5/2/2010	31	10714	290.6	338.184336	-47.584336		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	9/2/2010	31	10837	290.2	337.526651	-47.326651		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	12/2/2010	31	10928	288.8	337.115415	-48.315415		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	1/27/2011	32	10984	290.4	336.447552	-46.047552		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	4/22/2011	32	11069	289.6	334.614445	-45.014445		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	8/4/2011	32	11173	287	332.602236	-45.602236		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	11/9/2011	32	11270	284.9	330.972361	-46.072361		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	3/24/2012	33	11406	286.8	330.58723	-43.78723		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	6/15/2012	33	11489	283.6	331.140573	-47.540573		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	9/12/2012	33	11578	282.4	331.660466	-49.260466		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	12/14/2012	33	11671	285.8	332.111643	-46.311643		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	3/22/2013	34	11769	286.6	335.139272	-48.539272		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	6/18/2013	34	11857	284.4	338.184755	-53.784755		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	9/17/2013	34	11948	281	340.871843	-59.871843		109	409
3550706	6511039.028	20051549.18	82	110	1440953	519461	7	12/21/2013	34	12043	284.9	343.1979	-58.2979		109	409
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	4/23/1981	2	113	95.4	99.82576	-4.42576	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/13/1981	2	317	62.52	88.181783	-25.661783	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/10/1984	5	1410	138.9	135.997651	2.902349	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/6/1985	6	1771	151.95	92.421634	59.528366	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/7/1986	7	2137	176.99	81.432283	95.557717	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	6/30/1987	8	2372	155	86.208693	68.791307	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/11/1987	8	2506	171.76	86.10389	85.65611	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	3/10/1988	9	2626	162.78	77.701728	85.078272	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/9/1988	9	2870	140.65	79.817691	60.832309	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	10/14/1989	10	3209	163.76	93.212777	70.547223	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/14/1990	11	3605	147	128.23516	18.76484	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	12/10/1991	12	3996	153.39	99.784987	53.605013	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	5/20/1992	13	4158	156.45	99.270003	57.179997	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/19/1992	13	4341	136.52	101.286439	35.233561	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	3/24/1993	14	4466	147.65	84.557988	63.092012	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	12/16/1993	14	4733	149.34	78.616121	70.723879	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/18/1994	15	5070	155.1	78.263782	76.836218	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/16/1995	16	5433	120.46	55.05505	65.40495	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/22/1996	17	5805	143.82	14.678896	129.1411	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/18/1997	18	6166	127.27	47.873241	79.396759	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	12/17/1998	19	6560	125	51.750079	73.249921	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/10/1999	20	6888	127.8	89.5655	38.2345	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/14/2002	23	7988	126.77	-7.106702	133.8767	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/12/2003	24	8351	103	54.040313	48.959687	-156	-169	455

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	12/3/2004	25	8738	141.33	32.819685	108.51032	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	12/7/2005	26	9107	131.1	81.331522	49.768478	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/15/2006	27	9450	116.54	53.607907	62.932093	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/14/2007	28	9814	117.83	79.616859	38.213141	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/20/2009	30	10551	104.03	83.126884	20.903116	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/17/2010	31	10913	114.41	60.44256	53.96744	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/15/2012	33	11642	88.15	52.808184	35.341816	-156	-169	455
3550801	6528808.675	20051215.25	84	112	1522786	565323	8	11/14/2013	34	12006	86.2	75.263535	10.936465	-156	-169	455
3550802	6526870.906	20052239.26	84	112	1522786	565323	8	3/18/1981	2	77	150.7	126.40713	24.29287	-224	-235	512
3550901	6531432.215	20050223.81	84	113	1522789	565326	8	4/2/1981	2	92	116.2	86.486912	29.713088	-132	-164	419
3550902	6532241.515	20053100.59	84	113	1587944	615957	9	11/20/2007	28	9820	337.98	263.148579	74.831421		-469	410
3550903	6531551.296	20051344.72	84	113	1522789	565326	8	3/1/1981	2	60	128	62.57671	65.42329	-177	-194	415
3550904	6530037.205	20050664.98	84	113	1522789	565326	8	3/1/1981	2	60	125	95.25829	29.74171	-175	-243	455
3550907	6541996.701	20053866.23	85	115	1523269	565639	8	3/1/1981	2	60	146	132.205242	13.794758	-237	-247	465
3550908	6541313.264	20048359.38	86	114	1523784	565902	8	4/24/1981	2	114	161.4	155.790226	5.609774	-187	-215	510
3550909	6541312.986	20048359.41	86	114	1444102	521377	7	5/18/1981	2	138	268.3	330.134074	-61.834074	138	105	510
3550914	6538995.61	20042876.65	86	113	1523783	565901	8	4/5/1984	5	1191	141	182.069135	-41.069135	-229	-239	513
3550914	6538995.61	20042876.65	86	113	1523783	565901	8	3/3/1986	7	1888	137	162.149728	-25.149728	-229	-239	513
3550914	6538995.61	20042876.65	86	113	1523783	565901	8	11/1/1988	9	2862	93	144.488369	-51.488369	-229	-239	513
3551103	6551684.507	20088390.47	80	120	1520745	564142	8	1/31/1988	9	2587	245	253.25366	-8.25366	-170	-170	475
3551103	6551684.507	20088390.47	80	120	1520745	564142	8	4/12/1988	9	2659	242.23	251.672057	-9.442057	-170	-170	475
3551104	6544861.742	20074886.42	82	117	1521777	564734	8	9/3/1983	4	976	165	224.847162	-59.847162	-215	-447	455
3551104	6544861.742	20074886.42	82	117	1521777	564734	8	3/17/1988	9	2633	135	205.968209	-70.968209	-215	-447	455
3551104	6544861.742	20074886.42	82	117	1521777	564734	8	11/12/1988	9	2873	170	217.880532	-47.880532	-215	-447	455
3551105	6552787.964	20076075.4	82	119	1521779	564736	8	1/25/1990	11	3312	179	234.544395	-55.544395	-188	-200	410
3551105	6552787.964	20076075.4	82	119	1521779	564736	8	5/21/1992	13	4159	193.25	229.445041	-36.195041	-188	-200	410
3551106	6545047.614	20074590.89	82	117	1521777	564734	8	3/1/1990	11	3347	259.2	255.026884	4.173116	65	65	455
3551301	6569530.402	20084888.93	82	122	1440980	519488	7	4/12/1988	9	2659	255	310.713515	-55.713515		205	405
3551302	6570139.396	20084715.44	82	122	1587155	615319	9	4/12/1988	9	2659	155	202.442968	-47.442968		-45	405
3551402	6541701.732	20065510.57	83	116	1522271	565022	8	3/26/2010	31	10677	204	197.20356	6.79644		-41	419
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/13/1981	2	317	272.29	265.992234	6.297766	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/3/1984	5	1403	266.33	273.545176	-7.215176	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/5/1985	6	1770	265.83	265.040449	0.789551	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/12/1987	8	2507	267.1	260.563475	6.536525	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/15/1988	9	2876	262.46	259.058013	3.401987	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/14/1990	11	3605	251.75	261.00117	-9.25117	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	12/10/1991	12	3996	262.6	262.406631	0.193369	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/18/1992	13	4340	264.23	260.242422	3.987578	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	3/24/1993	14	4466	263.65	258.142151	5.507849	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	12/15/1993	14	4732	260.55	251.732293	8.817707	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/18/1994	15	5070	256.78	248.405001	8.374999	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/16/1995	16	5433	255.34	244.164232	11.175768	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/22/1996	17	5805	248.18	233.385961	14.794039	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	12/18/1998	19	6561	247.51	244.468129	3.041871	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/11/1999	20	6889	254.4	256.561214	-2.161214	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/8/2001	22	7617	241.25	244.465863	-3.215863	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	11/14/2002	23	7988	241.05	226.110092	14.939908	-20	-20	470
3551502	6566966.732	20068645.54	85	120	1523274	565644	8	12/3/2004	25	8738	221.44	234.959624	-13.519624	-20	-20	470
3551503	6560965.98	20063085.14	85	119	1443326	520932	7	4/2/1981	2	92	388.9	367.389269	21.510731		382	400
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	12/3/2004	25	8738	218.74	234.315491	-15.575491		-122	460

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	12/7/2005	26	9107	220.1	241.243175	-21.143175		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	12/7/2005	26	9107	219.98	241.183175	-21.203175		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	2/2/2006	27	9164	222.3	249.613371	-27.313371		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	3/2/2006	27	9192	220.3	248.299445	-27.999445		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	4/6/2006	27	9227	219.7	247.583396	-27.883396		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	5/4/2006	27	9255	218.9	247.020334	-28.120334		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	6/2/2006	27	9284	219.5	246.973846	-27.473846		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	7/4/2006	27	9316	219.7	246.797637	-27.097637		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	8/2/2006	27	9345	219.4	246.570224	-27.170224		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	9/2/2006	27	9376	219.9	246.573334	-26.673334		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	10/3/2006	27	9407	219.9	246.44148	-26.54148		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	11/2/2006	27	9437	220.1	246.401458	-26.301458		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	12/2/2006	27	9467	221.7	246.781436	-25.081436		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	1/3/2007	28	9499	221.1	246.530513	-25.430513		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	2/2/2007	28	9529	221.7	247.683503	-25.983503		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	3/2/2007	28	9557	221.5	248.348216	-26.848216		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	4/3/2007	28	9589	221.3	248.736273	-27.436273		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	5/2/2007	28	9618	220.9	248.9198	-28.0198		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	6/2/2007	28	9649	221.2	249.181028	-27.981028		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	7/3/2007	28	9680	221.3	249.370917	-28.070917		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	8/2/2007	28	9710	221.3	249.438385	-28.138385		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	9/4/2007	28	9743	221.1	249.452599	-28.352599		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	10/2/2007	28	9771	221	249.473412	-28.473412		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	11/2/2007	28	9802	221	249.504305	-28.504305		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	12/4/2007	28	9834	221.2	249.596194	-28.396194		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	1/3/2008	29	9864	221.2	249.604497	-28.404497		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	2/2/2008	29	9894	222.3	249.316614	-27.016614		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	3/4/2008	29	9925	222	248.728568	-26.728568		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	4/2/2008	29	9954	221.8	248.385739	-26.585739		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	5/1/2008	29	9983	222	248.224483	-26.224483		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	6/1/2008	29	10014	221.9	248.049994	-26.149994		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	7/1/2008	29	10044	221.7	247.855262	-26.155262		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	8/1/2008	29	10075	221.5	247.714918	-26.214918		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	9/1/2008	29	10106	221.5	247.634574	-26.134574		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	10/1/2008	29	10136	221.5	247.565569	-26.065569		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	11/1/2008	29	10167	222.3	247.753164	-25.453164		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	12/1/2008	29	10197	222.9	247.882448	-24.982448		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	1/1/2009	30	10228	223.5	248.010042	-24.510042		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	2/1/2009	30	10259	222.7	248.540209	-25.840209		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	3/1/2009	30	10287	221.8	248.808686	-27.008686		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	4/2/2009	30	10319	222.3	249.241437	-26.941437		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	5/2/2009	30	10349	222	249.326931	-27.326931		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	6/2/2009	30	10380	222	249.383845	-27.383845		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	7/2/2009	30	10410	222	249.431403	-27.431403		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	8/4/2009	30	10443	221.7	249.318544	-27.618544		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	9/2/2009	30	10472	221.7	249.298455	-27.598455		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	10/2/2009	30	10502	221.7	249.270897	-27.570897		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	11/3/2009	30	10534	222.5	249.467013	-26.967013		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	12/3/2009	30	10564	222.8	249.515871	-26.715871		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	1/13/2010	31	10605	221.9	248.891462	-26.991462		-122	460

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	2/4/2010	31	10627	222.9	248.564926	-25.664926		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	3/3/2010	31	10654	223.1	248.019343	-24.919343		-122	460
3551601	6567323.969	20068358.75	85	120	1523274	565644	8	4/6/2010	31	10688	221.9	247.198204	-25.298204		-122	460
3551602	6569027.264	20068643.86	85	121	1523275	565645	8	4/2/1981	2	92	315	281.714337	33.285663		10	420
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	10/22/2008	29	10157	286.3	260.956697	25.343303		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	5/2/2009	30	10349	286.5	263.076977	23.423023		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	9/2/2009	30	10472	286.7	263.159246	23.540754		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	3/26/2010	31	10677	286.7	260.516261	26.183739		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	3/23/2012	33	11405	285.3	253.429325	31.870675		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	6/19/2012	33	11493	284.1	254.45226	29.64774		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	9/13/2012	33	11579	282.3	254.920641	27.379359		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	12/12/2012	33	11669	283.9	255.232744	28.667256		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	3/21/2013	34	11768	285.5	258.003361	27.496639		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	6/26/2013	34	11865	285.1	260.153069	24.946931		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	9/17/2013	34	11948	284	261.494966	22.505034		56	399
3551604	6571903.081	20064220.4	86	121	1523800	565918	8	12/19/2013	34	12041	286.1	262.722847	23.377153		56	399
3551703	6552650.265	20043019.09	88	116	1445453	522250	7	9/2/2009	30	10472	268.4	358.01482	-89.61482		63	463
3551703	6552650.265	20043019.09	88	116	1445453	522250	7	3/26/2010	31	10677	263	356.543334	-93.543334		63	463
3551704	6552953.258	20045669.41	87	116	1524233	566187	8	9/2/2009	30	10472	243.8	234.33773	9.46227		-77	463
3551704	6552953.258	20045669.41	87	116	1524233	566187	8	3/26/2010	31	10677	243.5	230.143257	13.356743		-77	463
3551705	6551778.513	20043281.59	88	116	1445453	522250	7	9/2/2009	30	10472	238	357.629173	-119.629173		35	435
3551705	6551778.513	20043281.59	88	116	1445453	522250	7	3/26/2010	31	10677	235.8	356.135097	-120.3351		35	435
3551706	6551549.149	20044487.17	87	116	1524233	566187	8	9/2/2009	30	10472	249.7	233.98552	15.71448		-8	452
3551706	6551549.149	20044487.17	87	116	1524233	566187	8	3/26/2010	31	10677	247.4	229.015253	18.384747		-8	452
3551707	6554048.921	20047191.78	87	116	1524233	566187	8	9/2/2009	30	10472	263.1	232.029631	31.070369		18	458
3551707	6554048.921	20047191.78	87	116	1524233	566187	8	3/26/2010	31	10677	263	226.301283	36.698717		18	458
3551707	6554048.921	20047191.78	87	116	1524233	566187	8	5/2/2010	31	10714	263.2	225.387586	37.812414		18	458
3551707	6554048.921	20047191.78	87	116	1524233	566187	8	9/2/2010	31	10837	263.8	224.200387	39.599613		18	458
3551803	6555465.334	20048830.89	87	117	1524234	566188	8	9/2/2009	30	10472	249.7	239.838146	9.861854		17	417
3551803	6555465.334	20048830.89	87	117	1524234	566188	8	3/26/2010	31	10677	250.2	236.192503	14.007497		17	417
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	4/3/1981	2	93	284.5	266.722366	17.777634	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/13/1981	2	317	283.85	266.6626	17.1874	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/19/1982	3	688	281.8	265.652699	16.147301	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/19/1983	4	1053	280.11	267.827461	12.282539	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/3/1984	5	1403	278.73	270.588705	8.141295	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/6/1985	6	1771	278.87	265.413882	13.456118	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/13/1986	7	2143	273.92	259.466574	14.453426	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/12/1987	8	2507	272.4	263.545908	8.854092	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/15/1988	9	2876	275.36	255.19393	20.16607	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	10/13/1989	10	3208	275.19	263.604693	11.585307	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/14/1990	11	3605	275.95	256.739458	19.210542	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	12/10/1991	12	3996	277.1	257.979848	19.120152	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/18/1992	13	4340	274.8	250.190039	24.609961	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	12/15/1993	14	4732	276.7	245.253862	31.446138	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/18/1994	15	5070	278.62	243.11734	35.50266	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/16/1995	16	5433	275.25	241.450579	33.799403	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/22/1996	17	5805	262.8	240.383504	22.416496	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/21/1997	18	6169	277.45	234.449729	43.000271	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	12/18/1998	19	6561	276.29	241.373528	34.916472	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/11/2000	21	7255	274.7	248.960839	25.739161	151	148	340

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/7/2001	22	7616	266.7	249.771317	16.928683	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/14/2002	23	7988	269.3	202.209119	67.090881	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/12/2003	24	8351	267.35	214.79176	52.55824	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/12/2004	25	8717	270.78	237.861157	32.918843	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/15/2006	27	9450	266.24	260.962822	5.277178	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/15/2007	28	9815	266	263.483061	2.516939	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/19/2008	29	10185	261.25	261.741744	-0.491744	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/20/2009	30	10551	262.24	262.869113	-0.629113	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/17/2010	31	10913	260.06	260.205104	-0.145104	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	10/26/2011	32	11256	258.45	255.503918	2.946082	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/9/2012	33	11636	261.75	257.689763	4.060237	151	148	340
3552101	6589601.578	20086878.52	84	126	1522806	565343	8	11/14/2013	34	12006	263.61	262.932415	0.677585	151	148	340
3552102	6589695.077	20090228.51	83	126	1522281	565032	8	4/3/1981	2	93	254.47	262.288121	-7.818121		-24	370
3552106	6589670.83	20085462.49	84	126	1587957	615970	9	9/25/2002	23	7938	156	180.761677	-24.761677	33	33	336
3552106	6589670.83	20085462.49	84	126	1587957	615970	9	1/13/2010	31	10605	250.4	253.068255	-2.668255	33	33	336
3552106	6589670.83	20085462.49	84	126	1587957	615970	9	2/4/2010	31	10627	249.9	252.670639	-2.770639	33	33	336
3552106	6589670.83	20085462.49	84	126	1587957	615970	9	3/3/2010	31	10654	249.2	252.175399	-2.975399	33	33	336
3552106	6589670.83	20085462.49	84	126	1587957	615970	9	4/6/2010	31	10688	249	251.79063	-2.79063	33	33	336
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/18/1981	2	322	182	233.363711	-51.363711	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/23/1982	3	692	207	254.374616	-47.374616	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/2/1984	5	1402	177	233.202257	-56.202257	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	2/10/1988	9	2597	244	244.788597	-0.788597	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/15/1990	11	3606	219	245.626226	-26.626226	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/10/1995	16	5427	315.9	207.491678	108.40832	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/23/1996	17	5806	310.6	191.935691	118.66431	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/12/1997	18	6160	308.03	194.110811	113.91919	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/12/1998	19	6525	303.2	207.519828	95.680172	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/13/1999	20	6891	297.81	223.50479	74.30521	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/6/2001	22	7615	327.14	245.190588	81.949412	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/8/2002	23	7982	216.95	144.47071	72.47929	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/3/2004	25	8708	218.3	202.710408	15.589592	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/8/2006	27	9443	210.19	247.214716	-37.024716	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/21/2007	28	9821	211.11	238.166085	-27.056085	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	11/9/2012	33	11636	332.5	244.831007	87.668993	33	12	332
3552301	6617425.808	20084803.3	87	130	1524265	566219	8	12/11/2013	34	12033	332	249.78668	82.21332	33	12	332
3552401	6586910.151	20064645.25	87	123	1444908	521941	7	3/21/1981	2	80	343.6	336.937224	6.662776		338	360
3552502	6600766.899	20062282.77	89	125	1525022	566760	8	5/21/1986	7	1967	234.42	249.107377	-14.687377	-116	-119	350
3552503	6596275.878	20068043.86	88	125	1524683	566483	8	8/23/1995	16	5348	240.75	243.577068	-2.827068	-112	-200	460
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/20/1981	2	324	324.97	273.30729	51.66271	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/19/1983	4	1053	326.41	274.535352	51.874648	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/3/1984	5	1403	327.28	277.678993	49.601007	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/6/1985	6	1771	325.95	272.348382	53.601618	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/13/1986	7	2143	325.32	265.797428	59.522572	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/12/1987	8	2507	324.52	264.796217	59.723783	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/15/1988	9	2876	323.17	265.469116	57.700884	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	10/13/1989	10	3208	323.02	270.465167	52.554833	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	12/10/1991	12	3996	322.8	267.905673	54.894327	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/19/1992	13	4341	322.5	266.236922	56.263078	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	12/15/1993	14	4732	322.65	261.985456	60.664544	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/18/1994	15	5070	321.78	259.001499	62.778501	138	138	440

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/17/1995	16	5434	321.34	257.046227	64.293773	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/21/1997	18	6169	321.35	250.448012	70.901988	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	12/17/1998	19	6560	320.58	255.482642	65.097358	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/10/1999	20	6888	320.98	265.205391	55.774609	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/14/2002	23	7988	319.78	237.220288	82.559712	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/12/2003	24	8351	321.6	241.555347	80.044653	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/12/2004	25	8717	320.19	250.307783	69.882217	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	12/8/2005	26	9108	320.13	266.787933	53.342067	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/15/2006	27	9450	316.85	264.717949	52.132051	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/14/2007	28	9814	315.68	267.536179	48.143821	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/19/2008	29	10185	320.42	265.673226	54.746774	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/20/2009	30	10551	315.56	266.948916	48.611084	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/17/2010	31	10913	315.01	263.854585	51.155415	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	10/26/2011	32	11256	312.58	258.487224	54.092776	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/8/2012	33	11635	314.26	260.259614	54.000386	138	138	440
3552701	6588437.259	20054480.01	89	123	1525020	566758	8	11/14/2013	34	12006	313.98	266.008639	47.971361	138	138	440
3553102	6629147.266	20078696.51	89	132	1525035	566773	8	1/8/1986	7	1834	271	259.613203	11.386797	-14	-14	321
3553103	6628009.04	20079146.55	89	131	1445934	522559	7	9/12/1983	4	985	280	281.589192	-1.589192	60	60	340
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	3/20/1981	2	79	277.16	260.290767	16.869233		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/18/1981	2	322	272.34	264.226814	8.113186		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/23/1982	3	692	273.27	260.153638	13.116362		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/18/1983	4	1052	273.47	261.791419	11.678581		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/5/1985	6	1770	271.07	259.835807	11.234193		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/11/1986	7	2141	273.22	253.443889	19.776111		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	2/9/1988	9	2596	274.11	249.826823	24.283177		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	10/20/1988	9	2850	273.75	250.472417	23.277583		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	10/15/1989	10	3210	272.82	253.773512	19.046488		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/15/1990	11	3606	275.39	252.284406	23.105594		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/5/1991	12	3961	275.1	250.50388	24.59612		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/13/1992	13	4335	273.46	250.43838	23.02162		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	12/16/1993	14	4733	275.87	249.458269	26.411731		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/8/1994	15	5060	269.34	253.144311	16.195689		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/10/1995	16	5427	264.02	245.235823	18.784177		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/23/1996	17	5806	271.4	238.473606	32.926394		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/12/1997	18	6160	275.1	236.78211	38.31789		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/12/1998	19	6525	274.05	240.866154	33.183846		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/13/1999	20	6891	262.53	253.362596	9.167404		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/29/2000	21	7273	273.7	248.565777	25.134223		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/6/2001	22	7615	273.63	245.54882	28.08118		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/8/2002	23	7982	274	230.615406	43.384594		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/4/2003	24	8343	273.2	226.335356	46.864644		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/3/2004	25	8708	272.65	233.929107	38.720893		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	12/12/2005	26	9112	272.85	248.944	23.906		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/8/2006	27	9443	270.2	250.888804	19.311196		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/20/2007	28	9820	264.3	253.069154	11.230846		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/20/2008	29	10186	267.25	252.67805	14.57195		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	12/2/2009	30	10563	270.4	253.157371	17.242629		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/2/2010	31	10898	268.15	256.512668	11.637332		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	10/20/2011	32	11250	261.65	252.001397	9.648603		-74	315
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	11/8/2012	33	11635	263.9	252.491213	11.408787		-74	315

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3553702	6621707.043	20055715.38	92	128	1526409	567943	8	12/11/2013	34	12033	263.2	251.909933	11.290067		-74	315
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/23/1982	3	692	256.18	237.273915	18.906085	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/18/1983	4	1052	250.55	240.107938	10.442062	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/2/1984	5	1402	255.39	240.250907	15.139093	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/5/1985	6	1770	250.48	235.69045	14.78955	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	5/21/1986	7	1967	253.15	229.90995	23.24005	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	2/9/1988	9	2596	260.43	219.648654	40.781346	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	10/20/1988	9	2850	252.14	230.834506	21.305494	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	10/18/1989	10	3213	239.84	224.714264	15.125736	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/15/1990	11	3606	256.21	221.129492	35.080508	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/5/1991	12	3961	256.78	220.979062	35.800938	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	12/16/1993	14	4733	256.52	237.692496	18.827504	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/8/1994	15	5060	262.5	223.543904	38.956096	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/10/1995	16	5427	263.77	226.02978	37.74022	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/23/1996	17	5806	258.5	228.369953	30.130047	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/12/1997	18	6160	262.6	215.00152	47.59848	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/12/1998	19	6525	266.4	218.378287	48.021713	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/13/1999	20	6891	262.94	230.586199	32.353801	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/30/2000	21	7274	261.5	228.303334	33.196666	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/6/2001	22	7615	260.35	223.7289	36.6211	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/8/2002	23	7982	265.3	212.583177	52.716823	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/4/2003	24	8343	271.67	209.680643	61.989357	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/3/2004	25	8708	273.65	217.121138	56.528862	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/8/2006	27	9443	279.59	228.929573	50.660427	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/21/2007	28	9821	275.98	231.553995	44.426005	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	11/20/2008	29	10186	264.5	231.02494	33.47506	19	14	348
3553902	6650149.03	20060692.42	94	133	1527472	568671	8	12/2/2009	30	10563	263.15	231.275963	31.874037	19	14	348
3554401	6662019.42	20077214.58	92	137	1526447	567981	8	7/29/1981	2	210	251	239.038198	11.961802	102	102	312
3554402	6659925.705	20071125.52	93	136	1526980	568376	8	6/20/1986	7	1997	248.34	236.715698	11.624302	80	80	320
3554501	6681465.172	20066449.74	96	139	1528333	569246	8	10/20/1984	5	1389	221	222.600669	-1.600669	146	146	246
3554501	6681465.172	20066449.74	96	139	1528333	569246	8	5/14/1986	7	1960	226.76	219.110035	7.649965	146	146	246
3554503	6673147.564	20067846.96	95	138	1527900	568954	8	8/11/1983	4	953	240	233.84496	6.15504	114	114	264
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	3/20/1981	2	79	204.4	210.6819	-6.2819	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/17/1981	2	321	200.35	210.774697	-10.424697	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/21/1982	3	690	200.73	210.468607	-9.738607	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/18/1983	4	1052	203.71	211.287169	-7.577169	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/1/1984	5	1401	204.28	212.300268	-8.020268	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/13/1986	7	2143	204.58	206.81673	-2.23673	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	2/10/1988	9	2597	205.5	207.533511	-2.033511	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	10/19/1988	9	2849	203.98	209.360891	-5.380891	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	10/18/1989	10	3213	205.62	210.002089	-4.382089	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/16/1990	11	3607	208.03	208.462646	-0.432646	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/5/1991	12	3961	206.6	208.180811	-1.580811	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	12/18/1992	13	4370	205.6	211.57566	-5.97566	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	12/17/1993	14	4734	205.45	209.237483	-3.787483	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/8/1994	15	5060	204.83	206.549621	-1.719621	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/22/1996	17	5805	204.6	205.995255	-1.395255	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/12/1997	18	6160	205.7	207.718309	-2.018309	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/12/1998	19	6525	205.6	208.021221	-2.421221	190	190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/13/1999	20	6891	206.64	211.33719	-4.69719	190	190	230

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/30/2000	21	7274	207.9	209.806169	-1.906169		190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/6/2001	22	7615	207.1	208.503224	-1.403224		190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/7/2002	23	7981	214.35	206.942824	7.407176		190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/5/2003	24	8344	207.22	207.174393	0.045607		190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	11/3/2004	25	8708	230.3	207.973935	22.326065		190	230
3554601	6693980.34	20075209.69	95	142	1527907	568961	8	12/10/2005	26	9110	223.35	209.722804	13.627196		190	230
3554702	6668191.292	20062320.88	95	137	1591631	619122	9	11/18/1983	4	1052	230.62	226.043567	4.576433	48	44	300
3554704	6665165.8	20059327.03	95	136	1527898	568952	8	5/14/1986	7	1960	236.4	220.514227	15.885773	80	78	320
3554901	6685831.092	20060084.46	97	139	1528789	569549	8	12/1/1985	6	1796	205	214.272116	-9.272116	94	94	230
3554901	6685831.092	20060084.46	97	139	1528789	569549	8	6/25/1986	7	2002	219.6	215.781326	3.818674	94	94	230
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	3/20/1981	2	79	218.97	239.572365	-20.602365	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	11/17/1981	2	321	219.2	239.366177	-20.166177	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	11/21/1982	3	690	219.41	238.94437	-19.53437	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	10/31/1984	5	1400	219.22	241.046496	-21.826496	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	11/13/1986	7	2143	219.61	235.995525	-16.385525	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	2/10/1988	9	2597	220.32	237.04928	-16.72928	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	10/19/1988	9	2849	220.44	240.012621	-19.572621	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	11/16/1990	11	3607	221.63	240.006649	-18.376649	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	11/5/1991	12	3961	223.14	239.352398	-16.212398	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	12/18/1992	13	4370	222.65	241.742959	-19.092959	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	12/17/1993	14	4734	222.98	238.988554	-16.008554	97	97	325
3555101	6706465.716	20089346.8	94	145	1527523	568722	8	11/22/1996	17	5805	220.2	236.871779	-16.671779	97	97	325
3555503	6717099.059	20076520.01	97	146	1528817	569577	8	9/19/1991	12	3914	209	222.142572	-13.142572	45	45	290
3555503	6717099.059	20076520.01	97	146	1528817	569577	8	9/19/1991	12	3914	128	181.642572	-53.642572	45	45	290
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	3/20/1981	2	79	220.48	229.981888	-9.501888		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/17/1981	2	321	220.14	229.614548	-9.474548		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/21/1982	3	690	218.76	228.91174	-10.15174		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/18/1983	4	1052	220.4	229.546454	-9.146454		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/1/1984	5	1401	220.5	232.072095	-11.572095		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/5/1985	6	1770	220.48	229.99488	-9.51488		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	5/15/1986	7	1961	220.68	226.970432	-6.290432		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/12/1986	7	2142	221.12	224.883354	-3.763354		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	2/9/1988	9	2596	220.07	226.670431	-6.600431		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	10/19/1988	9	2849	220.02	230.979338	-10.959338		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	10/15/1989	10	3210	222.77	232.743395	-9.973395		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/16/1990	11	3607	223.18	230.649835	-7.469835		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/7/1991	12	3963	223.4	229.780662	-6.380662		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	12/17/1992	13	4369	222.6	233.419907	-10.819907		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	12/17/1993	14	4734	221.56	229.176725	-7.616725		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/9/1994	15	5061	222	226.750712	-4.750712		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/10/1995	16	5427	221.8	230.831576	-9.031576		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/22/1996	17	5805	219	226.146899	-7.146899		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/12/1997	18	6160	221.1	229.100328	-8.000328		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/12/1998	19	6525	222.3	229.844694	-7.544694		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/13/1999	20	6891	219.88	233.542019	-13.662019		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/29/2000	21	7273	220.7	231.261356	-10.561356		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/6/2001	22	7615	221.5	229.474255	-7.974255		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/7/2002	23	7981	221.5	228.036032	-6.536032		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/5/2003	24	8344	221.1	229.173298	-8.073298		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/3/2004	25	8708	223.45	229.146563	-5.696563		62	282

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	12/10/2005	26	9110	221.82	230.245838	-8.425838		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/9/2006	27	9444	220.09	228.710052	-8.620052		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/21/2007	28	9821	219.62	228.265229	-8.645229		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/20/2008	29	10186	220.66	227.977157	-7.317157		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	12/2/2009	30	10563	220.1	226.529241	-6.429241		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/3/2010	31	10899	219.45	226.316556	-6.866556		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	10/20/2011	32	11250	216.45	224.727424	-8.277424		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	11/8/2012	33	11635	217.3	225.907836	-8.607836		62	282
3555901	6728714.154	20058271.79	101	146	1531268	571317	8	12/10/2013	34	12032	217.9	229.889373	-11.989373		62	282
3556501	6746985.448	20081351.09	99	151	1530000	570462	8	11/17/1981	2	321	233.15	255.859892	-22.709892	80	80	300
3556501	6746985.448	20081351.09	99	151	1530000	570462	8	11/1/1984	5	1401	231.98	249.73565	-17.75565	80	80	300
3556501	6746985.448	20081351.09	99	151	1530000	570462	8	2/10/1988	9	2597	236.8	254.477933	-17.677933	80	80	300
3556501	6746985.448	20081351.09	99	151	1530000	570462	8	10/18/1989	10	3213	238.78	257.919132	-19.139132	80	80	300
3556702	6747218.891	20065746.67	102	150	1531830	571803	8	6/18/1986	7	1995	264.6	247.786461	16.813539		104	290
3556703	6747224.3	20065645.47	102	150	1531830	571803	8	6/18/1986	7	1995	266.25	253.364379	12.885621		139	290
3557205	6485873.444	20026615.67	84	103	1347727	478958	6	7/15/1981	2	196	376.3	344.941274	31.358726		320	408
3557206	6485873.444	20026615.67	84	103	1442464	520339	7	7/15/1981	2	196	368.6	342.630134	25.969866		228	408
3557207	6485958.965	20026619.57	84	103	1442464	520339	7	7/15/1981	2	196	327.1	330.21343	-3.11343		-36	409
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	9/2/2010	31	10837	272.8	249.339592	23.460408		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	12/2/2010	31	10928	274	248.745574	25.254426		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	2/25/2011	32	11013	272.9	246.666166	26.233834		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	4/30/2011	32	11077	272	244.820855	27.179145		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	8/13/2011	32	11182	269.3	242.54154	26.75846		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	11/30/2011	32	11291	269.8	240.660894	29.139106		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	6/21/2012	33	11495	271.7	241.876667	29.823333		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	9/15/2012	33	11581	271.3	242.326764	28.973236		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	12/28/2012	33	11685	271	242.73556	28.26444		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	6/15/2013	34	11854	269.7	247.152566	22.547434		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	9/18/2013	34	11949	269.4	249.197363	20.202637		-20	460
3557209	6487498.351	20026791.44	84	103	1522777	565314	8	12/21/2013	34	12043	271.2	250.915779	20.284221		-20	460
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	9/2/2010	31	10837	271.9	249.620464	22.279536		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	12/2/2010	31	10928	274.5	249.026265	25.473735		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	2/25/2011	32	11013	273.1	246.816746	26.283254		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	4/30/2011	32	11077	273	244.916765	28.083235		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	8/13/2011	32	11182	270.2	242.613864	27.586136		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	11/30/2011	32	11291	269.9	240.727221	29.172779		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	3/28/2012	33	11410	274.7	241.390948	33.309052		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	6/21/2012	33	11495	272.1	242.134415	29.965585		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	9/15/2012	33	11581	272.4	242.598287	29.801713		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	12/28/2012	33	11685	271.6	243.014396	28.585604		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	3/26/2013	34	11773	274.7	245.521066	29.178934		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	6/15/2013	34	11854	271	247.60869	23.39131		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	9/18/2013	34	11949	270.5	249.685988	20.814012		235	415
3557210	6490574.117	20029061.33	84	104	1522778	565315	8	12/20/2013	34	12042	272.5	251.407738	21.092262		235	415
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	2/25/2011	32	11013	321.8	243.019821	78.780179		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	4/30/2011	32	11077	326.8	240.823513	85.976487		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	8/13/2011	32	11182	325.5	238.42902	87.07098		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	11/1/2011	32	11262	325.7	237.00386	88.69614		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	3/27/2012	33	11409	324.1	238.26176	85.83824		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	6/21/2012	33	11495	324	239.267227	84.732773		-57	483

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	9/15/2012	33	11581	324	239.795317	84.204683		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	12/28/2012	33	11685	324.4	240.243459	84.156541		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	3/26/2013	34	11773	325.3	243.591648	81.708352		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	6/15/2013	34	11854	322.8	245.926366	76.873634		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	9/18/2013	34	11949	321.6	248.142972	73.457028		-57	483
3557302	6503944.268	20037280.91	84	107	1522781	565318	8	12/20/2013	34	12042	323.6	249.951876	73.648124		-57	483
3557303	6499267.172	20033435.45	84	106	1522780	565317	8	2/11/2010	31	10634	303.4	267.459259	35.940741		170	430
3557303	6499267.172	20033435.45	84	106	1522780	565317	8	9/2/2010	31	10837	303	265.397909	37.602091		170	430
3557303	6499267.172	20033435.45	84	106	1522780	565317	8	11/2/2010	31	10898	302.9	265.083741	37.816259		170	430
3557304	6499186.217	20032397.73	84	106	1522780	565317	8	2/11/2010	31	10634	306.2	268.485223	37.714777		74	414
3557304	6499186.217	20032397.73	84	106	1522780	565317	8	9/2/2010	31	10837	305.6	266.388302	39.211698		74	414
3557304	6499186.217	20032397.73	84	106	1522780	565317	8	12/2/2010	31	10928	305.6	265.981005	39.618995		74	414
3557305	6498138.489	20032754.85	84	106	1522780	565317	8	2/11/2010	31	10634	294.2	264.791794	29.408206		-26	394
3557306	6496933.329	20032800.59	84	106	1522780	565317	8	2/11/2010	31	10634	284.8	268.463864	16.336136		-70	430
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	5/2/2009	30	10349	334.2	252.848681	81.351319		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	9/2/2009	30	10472	334.4	253.080347	81.319653		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	2/11/2010	31	10634	335.8	251.734664	84.065336		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	5/2/2010	31	10714	335.4	250.164574	85.235426		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	9/2/2010	31	10837	335.1	248.948259	86.151741		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	12/2/2010	31	10928	334.2	248.354743	85.845257		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	2/25/2011	32	11013	334.8	245.693753	89.106247		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	4/30/2011	32	11077	334.1	243.631643	90.468357		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	8/13/2011	32	11182	332	241.2645	90.7355		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	11/1/2011	32	11262	330.9	239.832352	91.067648		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	3/27/2012	33	11409	329	240.50826	88.49174		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	6/21/2012	33	11495	326.7	241.39551	85.30449		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	9/15/2012	33	11581	328.5	241.896679	86.603321		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	12/28/2012	33	11685	329.2	242.332488	86.867512		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	3/26/2013	34	11773	330.6	245.24584	85.35416		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	6/15/2013	34	11854	329	247.474794	81.525206		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	9/18/2013	34	11949	328.8	249.639004	79.160996		-78	422
3557307	6497887.642	20034466.58	84	106	1522780	565317	8	12/20/2013	34	12042	330	251.417612	78.582388		-78	422
3557309	6496797.325	20030158.67	85	105	1523253	565623	8	5/2/2009	30	10349	265.8	257.38362	8.41638		-151	389
3557309	6496797.325	20030158.67	85	105	1523253	565623	8	9/2/2009	30	10472	266	257.601672	8.398328		-151	389
3557309	6496797.325	20030158.67	85	105	1523253	565623	8	2/23/2010	31	10646	268.2	257.217496	10.982504		-151	389
3557310	6497755.898	20028195.72	85	105	1523253	565623	8	9/2/2010	31	10837	301.4	265.960201	35.439799		12	392
3557310	6497755.898	20028195.72	85	105	1523253	565623	8	12/2/2010	31	10928	301.9	265.710399	36.189601		12	392
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	2/11/2010	31	10634	281.2	252.143704	29.056296		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	9/2/2010	31	10837	280.7	249.360328	31.339672		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	12/2/2010	31	10928	280.5	248.789782	31.710218		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	2/25/2011	32	11013	281	246.011376	34.988624		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	4/30/2011	32	11077	280	243.962707	36.037293		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	8/13/2011	32	11182	277.6	241.653041	35.946959		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	11/1/2011	32	11262	277.6	240.261917	37.338083		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	3/27/2012	33	11409	278.5	241.127009	37.372991		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	6/21/2012	33	11495	278.6	242.032555	36.567445		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	9/15/2012	33	11581	277	242.530759	34.469241		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	12/28/2012	33	11685	277	242.961128	34.038872		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	3/26/2013	34	11773	277.2	245.964001	31.235999		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	6/15/2013	34	11854	273.4	248.180805	25.219195		-73	432

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	9/18/2013	34	11949	270.9	250.317701	20.582299		-73	432
3557311	6502129.866	20031925.56	85	106	1523254	565624	8	12/20/2013	34	12042	273.4	252.071448	21.328552		-73	432
3557312	6502691.208	20030937.81	85	106	1523254	565624	8	2/11/2010	31	10634	286.1	262.50039	23.59961		-63	457
3557312	6502691.208	20030937.81	85	106	1523254	565624	8	9/2/2010	31	10837	285.3	260.327622	24.972378		-63	457
3557312	6502691.208	20030937.81	85	106	1523254	565624	8	12/2/2010	31	10928	285.2	259.901897	25.298103		-63	457
3557313	6499368.408	20028452.62	85	106	1523254	565624	8	9/16/2010	31	10851	296.7	264.417346	32.282654		9	409
3557313	6499368.408	20028452.62	85	106	1523254	565624	8	11/2/2010	31	10898	297.1	264.337832	32.762168		9	409
3557314	6497972.851	20028895.06	85	105	1523253	565623	8	9/2/2010	31	10837	297.4	264.634075	32.765925		35	415
3557314	6497972.851	20028895.06	85	105	1523253	565623	8	12/2/2010	31	10928	297.9	264.383109	33.516891		35	415
3557315	6500983.871	20028831.41	85	106	1523254	565624	8	2/11/2010	31	10634	308	269.667189	38.332811		33	413
3557315	6500983.871	20028831.41	85	106	1523254	565624	8	9/2/2010	31	10837	307.7	267.722321	39.977679		33	413
3557315	6500983.871	20028831.41	85	106	1523254	565624	8	12/2/2010	31	10928	307.9	267.387602	40.512398		33	413
3557316	6502909.531	20029934.18	85	106	1523254	565624	8	5/2/2009	30	10349	280.9	262.04474	18.85526		-92	458
3557316	6502909.531	20029934.18	85	106	1523254	565624	8	9/2/2009	30	10472	281	262.198744	18.801256		-92	458
3557316	6502909.531	20029934.18	85	106	1523254	565624	8	5/2/2010	31	10714	282.1	260.418501	21.681499		-92	458
3557316	6502909.531	20029934.18	85	106	1523254	565624	8	9/2/2010	31	10837	282.5	259.724368	22.775632		-92	458
3557316	6502909.531	20029934.18	85	106	1523254	565624	8	12/2/2010	31	10928	282.5	259.331236	23.168764		-92	458
3557404	6475433.139	20014279.11	85	100	1443231	520837	7	7/15/1981	2	196	311.5	311.318363	0.181637		233	366
3557405	6475433.139	20014279.11	85	100	1443231	520837	7	7/15/1981	2	196	288.9	304.538363	-15.638363		151	366
3557407	6476883.825	20018298.36	85	101	1443238	520844	7	4/1/1981	2	91	288.6	308.745064	-20.145064		166	345
3557409	6468395.563	20010209.19	85	99	1348584	479170	6	2/8/1981	2	39	305	305.194419	-0.194419	274	271	350
3557409	6468395.563	20010209.19	85	99	1348584	479170	6	3/9/1988	9	2625	307.66	303.64007	4.01993	274	271	350
3557503	6489912.112	20017272.01	86	103	1349550	479422	6	4/1/1981	2	91	402.8	327.272228	75.527772		397	420
3557503	6489912.112	20017272.01	86	103	1349550	479422	6	7/15/1981	2	196	407.7	326.944593	80.755407		397	420
3557505	6485103.237	20020903.53	85	102	1443252	520858	7	4/1/1981	2	91	297.7	317.659506	-19.959506		-112	398
3557506	6484570.246	20021284.58	85	102	1348627	479181	6	4/1/1981	2	91	356.9	334.846999	22.053001		322	382
3557508	6486310.56	20011430.02	87	102	1350369	479640	6	7/15/1981	2	196	369.5	333.747585	35.752415		295	448
3557509	6486310.56	20011430.02	87	102	1444740	521773	7	7/15/1981	2	196	364.3	331.24288	33.05712		189	448
3557510	6486310.56	20011430.02	87	102	1444740	521773	7	7/15/1981	2	196	315	316.45288	-1.45288		-46	449
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	7/8/2003	24	8224	222	242.166297	-20.166297	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	2/2/2006	27	9164	225.6	247.652945	-22.052945	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	3/2/2006	27	9192	224	246.722573	-22.722573	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	4/6/2006	27	9227	223.8	246.151998	-22.351998	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	5/4/2006	27	9255	221.6	245.131905	-23.531905	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	6/2/2006	27	9284	222.1	244.958387	-22.858387	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	7/4/2006	27	9316	221	244.281663	-23.281663	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	8/2/2006	27	9345	222	244.324827	-22.324827	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	9/2/2006	27	9376	222.2	244.110279	-21.910279	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	10/3/2006	27	9407	221.1	243.523092	-22.423092	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	11/2/2006	27	9437	221.8	243.516044	-21.716044	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	12/2/2006	27	9467	222.2	243.418997	-21.218997	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	1/3/2007	28	9499	222.6	243.326664	-20.726664	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	2/2/2007	28	9529	222.4	243.625131	-21.225131	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	3/2/2007	28	9557	221.4	243.626165	-22.226165	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	4/3/2007	28	9589	222.2	244.14069	-21.94069	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	5/2/2007	28	9618	221.5	244.136173	-22.636173	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	6/2/2007	28	9649	221.2	244.201106	-23.001106	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	7/3/2007	28	9680	221.8	244.529145	-22.729145	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	8/2/2007	28	9710	221.6	244.559359	-22.959359	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	9/4/2007	28	9743	221.4	244.598595	-23.198595	-419	-419	437

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	10/2/2007	28	9771	220.6	244.432558	-23.832558	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	11/2/2007	28	9802	220.2	244.373089	-24.173089	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	12/4/2007	28	9834	219.4	244.195572	-24.795572	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	1/3/2008	29	9864	219.8	244.362423	-24.562423	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	2/2/2008	29	9894	220.2	244.189182	-23.989182	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	3/4/2008	29	9925	219.6	243.730679	-24.130679	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	4/2/2008	29	9954	220.6	243.8021	-23.2021	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	5/1/2008	29	9983	220.4	243.54006	-23.14006	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	6/1/2008	29	10014	220.2	243.30375	-23.10375	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	7/1/2008	29	10044	219.4	242.896487	-23.496487	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	8/1/2008	29	10075	219.8	242.882459	-23.082459	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	10/1/2008	29	10136	219	242.387299	-23.387299	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	11/1/2008	29	10167	218.6	242.160644	-23.560644	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	12/1/2008	29	10197	217.8	241.81743	-24.01743	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	1/1/2009	30	10228	218.9	242.040776	-23.140776	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	2/1/2009	30	10259	216.4	241.593473	-25.193473	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	3/1/2009	30	10287	211	240.208415	-29.208415	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	4/2/2009	30	10319	217.2	242.255511	-25.055511	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	5/2/2009	30	10349	210.5	240.377125	-29.877125	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	6/2/2009	30	10380	214.2	241.562305	-27.362305	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	7/2/2009	30	10410	208.2	239.829684	-31.629684	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	8/4/2009	30	10443	208.7	240.000061	-31.300061	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	9/2/2009	30	10472	204.3	238.697967	-34.397967	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	10/2/2009	30	10502	209.3	240.20844	-30.90844	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	12/3/2009	30	10564	203.1	238.336736	-35.236736	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	2/4/2010	31	10627	92.5	204.683132	-112.18313	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	3/3/2010	31	10654	205	238.087235	-33.087235	-419	-419	437
3557511	6489603.444	20022123.52	85	103	1523251	565621	8	4/6/2010	31	10688	208.8	238.859875	-30.059875	-419	-419	437
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	9/2/2010	31	10837	286	250.601	35.399		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	12/2/2010	31	10928	286.4	250.029458	36.370542		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	2/25/2011	32	11013	286.2	248.014621	38.185379		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	4/30/2011	32	11077	285.8	246.232984	39.567016		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	8/13/2011	32	11182	284	244.028581	39.971419		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	11/30/2011	32	11291	283.4	242.205838	41.194162		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	3/28/2012	33	11410	284.3	242.705556	41.594444		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	9/15/2012	33	11581	281.8	243.819057	37.980943		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	12/28/2012	33	11685	280.2	244.216438	35.983562		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	3/26/2013	34	11773	281	246.534398	34.465602		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	6/15/2013	34	11854	277.4	248.517978	28.882022		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	9/18/2013	34	11949	274.3	250.511664	23.788336		-68	432
3557512	6491341.597	20022831.85	85	104	1523252	565622	8	12/20/2013	34	12042	276	252.171695	23.828305		-68	432
3557702	6475854.94	20001221.44	88	99	1445397	522194	7	7/15/1981	2	196	306.6	299.73819	6.86181		122	312
3557703	6475854.94	20001221.44	88	99	1445397	522194	7	7/15/1981	2	196	300.8	297.99819	2.80181		13	313
3557704	6475235.55	20001599.09	87	99	1444731	521764	7	7/15/1981	2	196	312	301.156385	10.843615		180	310
3557802	6487212.507	20008633.23	87	102	1524213	566167	8	5/4/2006	27	9255	225.6	239.760934	-14.160934	28	28	441
3557804	6487402.811	20008236.51	87	102	1444740	521773	7	11/16/1988	9	2877	269.2	292.678006	-23.478006	-18	-70	430
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	3/18/1981	2	77	361.9	346.396143	15.503857	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/21/1981	2	325	363.35	345.199457	18.150543	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/20/1982	3	689	364.06	343.179855	20.880145	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/19/1983	4	1053	365.35	343.626056	21.723944	349	349	380

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/3/1984	5	1403	365.9	350.047982	15.852018	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/6/1986	7	2136	364.29	336.032738	28.257262	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/12/1987	8	2507	364.4	334.837624	29.562376	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/12/1988	9	2873	363.75	345.805638	17.944362	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	10/14/1989	10	3209	365.87	350.858823	15.011177	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/14/1990	11	3605	366.33	349.148362	17.181638	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	12/10/1991	12	3996	366.9	346.97565	19.92435	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/18/1992	13	4340	365.68	353.520563	12.159437	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	12/16/1993	14	4733	366.2	345.015644	21.184356	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/19/1994	15	5071	366.8	338.791758	28.008242	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/17/1995	16	5434	365.08	345.57723	19.50277	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/23/1996	17	5806	363.72	336.812438	26.907562	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/21/1997	18	6169	364.95	342.011764	22.938236	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	12/17/1998	19	6560	366.25	343.280798	22.969202	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/10/1999	20	6888	364.7	351.539096	13.160904	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	12/21/2000	21	7295	364.55	351.325134	13.224866	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/13/2002	23	7987	365.44	344.072511	21.367489	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/12/2003	24	8351	365.55	346.396305	19.153695	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/13/2004	25	8718	366.53	346.011064	20.518936	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	12/8/2005	26	9108	365	348.021638	16.978362	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/11/2006	27	9446	362.8	345.079496	17.720504	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/19/2008	29	10185	363.31	342.602723	20.707277	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/20/2009	30	10551	363.27	339.319208	23.950792	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/17/2010	31	10913	361.55	338.004036	23.545964	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	10/26/2011	32	11256	359.64	333.409688	26.230312	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/9/2012	33	11636	360.92	334.232986	26.687014	349	349	380
3558101	6507452.246	20026495.33	86	107	1444040	521315	7	11/15/2013	34	12007	361.72	342.966459	18.753541	349	349	380
3558103	6512426.796	20035951.93	85	108	1523256	565626	8	7/15/1981	2	196	292.6	263.61113	28.98887		-32	410
3558104	6508695.218	20033041.26	85	107	1443260	520866	7	3/17/1996	17	5555	219	307.184203	-88.184203	-129	-134	439
3558105	6513676.22	20029420.68	86	108	1523769	565887	8	10/18/2003	24	8326	194	219.773024	-25.773024	-341	-341	469
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	5/2/2009	30	10349	250.6	344.702729	-94.102729		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	9/2/2009	30	10472	251.4	343.515301	-92.115301		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	2/23/2010	31	10646	255.6	342.361859	-86.761859		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	5/2/2010	31	10714	254.5	342.020676	-87.520676		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	9/2/2010	31	10837	253.4	341.469126	-88.069126		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	12/2/2010	31	10928	255	341.118292	-86.118292		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	2/23/2011	32	11011	254.6	340.01405	-85.41405		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	4/21/2011	32	11068	253.6	338.922097	-85.322097		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	8/12/2011	32	11181	251.4	336.987627	-85.587627		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	3/27/2012	33	11409	245.2	335.374251	-90.174251		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	6/21/2012	33	11495	247.6	335.9245	-88.3245		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	9/15/2012	33	11581	247	336.410318	-89.410318		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	12/19/2012	33	11676	246.7	336.858558	-90.158558		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	3/21/2013	34	11768	245.9	339.719455	-93.819455		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	6/15/2013	34	11854	246.5	342.519506	-96.019506		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	9/18/2013	34	11949	244	345.14113	-101.14113		-189	391
3558106	6513567.737	20035072.14	85	108	1443261	520867	7	12/20/2013	34	12042	247	347.258694	-100.258694		-189	391
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	5/2/2009	30	10349	275.4	344.635993	-69.235993		-90	390
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	9/2/2009	30	10472	275	343.437733	-68.437733		-90	390
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	9/2/2010	31	10837	274.8	341.271075	-66.471075		-90	390

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	12/2/2010	31	10928	275.8	340.902106	-65.102106		-90	390
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	2/23/2011	32	11011	276.8	339.757529	-62.957529		-90	390
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	4/21/2011	32	11068	276.2	338.621483	-62.421483		-90	390
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	8/12/2011	32	11181	273.8	336.613471	-62.813471		-90	390
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	11/30/2011	32	11291	270.2	334.930797	-64.730797		-90	390
3558107	6514128.392	20038159.74	85	109	1443262	520868	7	3/27/2012	33	11409	271.2	334.930709	-63.730709		-90	390
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	5/2/2009	30	10349	275.8	346.924654	-71.124654		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	9/2/2009	30	10472	275	345.718618	-70.718618		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	9/2/2010	31	10837	275.5	343.549579	-68.049579		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	12/2/2010	31	10928	275.6	343.183422	-67.583422		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	2/23/2011	32	11011	276.2	341.992992	-65.792992		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	4/21/2011	32	11068	275.2	340.858391	-65.658391		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	8/12/2011	32	11181	272.2	338.870942	-66.670942		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	11/30/2011	32	11291	270.2	337.205739	-67.005739		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	3/27/2012	33	11409	270.9	337.290596	-66.390596		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	6/21/2012	33	11495	270.9	337.864277	-66.964277		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	9/15/2012	33	11581	269.3	338.366814	-69.066814		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	12/19/2012	33	11676	270.6	338.832416	-68.232416		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	6/15/2013	34	11854	270.2	344.750026	-74.550026		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	9/18/2013	34	11949	267.2	347.446343	-80.246343		-27	413
3558203	6518104.793	20035811.03	86	109	1444046	521321	7	12/20/2013	34	12042	270	349.633578	-79.633578		-27	413
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	2/23/2010	31	10646	276.3	344.85621	-68.55621		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	9/2/2010	31	10837	272.7	343.857684	-71.157684		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	12/2/2010	31	10928	272.8	343.48349	-70.68349		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	2/23/2011	32	11011	273.2	342.257478	-69.057478		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	4/21/2011	32	11068	272.4	341.100051	-68.700051		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	8/12/2011	32	11181	269.6	339.079525	-69.479525		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	11/30/2011	32	11291	267.7	337.389452	-69.689452		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	3/27/2012	33	11409	268	337.493782	-69.493782		-22	458
3558204	6519000.676	20036866.67	86	110	1444049	521324	7	6/21/2012	33	11495	268.3	338.078301	-69.778301		-22	458
3558303	6539554.113	20038341.12	87	113	1524230	566184	8	3/11/1988	9	2627	143.7	173.762956	-30.062956	-89	-127	453
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	5/2/2009	30	10349	170.3	245.617978	-75.317978		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	9/2/2009	30	10472	170.8	245.722526	-74.922526		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	3/25/2010	31	10676	175.2	241.648598	-66.448598		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	5/2/2010	31	10714	171.7	240.855199	-69.155199		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	9/2/2010	31	10837	169.5	239.710018	-70.210018		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	12/2/2010	31	10928	170.7	239.222231	-68.522231		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	2/17/2011	32	11005	171.7	235.46045	-63.76045		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	4/19/2011	32	11066	171.7	233.041765	-61.341765		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	8/12/2011	32	11181	167.1	230.653049	-63.553049		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	11/22/2011	32	11283	160.2	229.136998	-68.936998		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	3/28/2012	33	11410	173.4	232.034582	-58.634582		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	6/16/2012	33	11490	171.3	233.138179	-61.838179		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	9/15/2012	33	11581	166.5	233.703699	-67.203699		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	12/22/2012	33	11679	169.9	234.095589	-64.195589		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	3/28/2013	34	11775	179	238.166063	-59.166063		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	6/26/2013	34	11865	179.1	240.631118	-61.531118		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	9/24/2013	34	11955	168.1	242.510442	-74.410442		-110	393
3558304	6541053.058	20028477.01	89	112	1525009	566747	8	12/19/2013	34	12041	170.1	244.031524	-73.931524		-110	393
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	9/2/2009	30	10472	220.2	233.468617	-13.268617		-14	448

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	3/25/2010	31	10676	222.2	228.275489	-6.075489		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	9/2/2010	31	10837	217.6	226.154061	-8.554061		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	12/2/2010	31	10928	217	225.642823	-8.642823		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	2/17/2011	32	11005	217.4	220.730481	-3.330481		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	4/19/2011	32	11066	217	217.944365	-0.944365		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	3/28/2012	33	11410	214.8	217.865846	-3.065846		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	6/20/2012	33	11494	216.5	219.189209	-2.689209		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	9/15/2012	33	11581	215.7	219.75771	-4.05771		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	12/19/2012	33	11676	214.9	220.159994	-5.259994		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	3/21/2013	34	11768	218	224.916843	-6.916843		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	6/25/2013	34	11864	218.8	227.814699	-9.014699		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	9/18/2013	34	11949	216.2	229.689574	-13.489574		-14	448
3558305	6531247.432	20032271.43	87	111	1524228	566182	8	12/20/2013	34	12042	216.2	231.414291	-15.214291		-14	448
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	3/25/2010	31	10676	247.1	215.422837	31.677163	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	5/2/2010	31	10714	242.7	214.425277	28.274723	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	9/2/2010	31	10837	241.3	213.147319	28.152681	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	12/2/2010	31	10928	240.3	212.629071	27.670929	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	2/17/2011	32	11005	241.1	206.588375	34.511625	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	4/19/2011	32	11066	240.1	203.483575	36.616425	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	8/12/2011	32	11181	233.1	200.810998	32.289002	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	11/22/2011	32	11283	231.9	199.184783	32.715217	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	3/28/2012	33	11410	236.3	204.476835	31.823165	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	6/20/2012	33	11494	236.9	205.96856	30.93144	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	9/15/2012	33	11581	236.3	206.56894	29.73106	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	12/19/2012	33	11676	236	206.983144	29.016856	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	3/21/2013	34	11768	237.7	212.592362	25.107638	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	6/25/2013	34	11864	237.9	215.640257	22.259743	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	9/18/2013	34	11949	236.3	217.554314	18.745686	61	501	
3558306	6531180.664	20035512.32	87	111	1524228	566182	8	12/21/2013	34	12043	236.9	219.323276	17.576724	61	501	
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/21/1981	2	325	430.64	342.503756	88.136244	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/20/1982	3	689	431.86	340.767913	91.092087	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/19/1983	4	1053	433.21	341.269909	91.940091	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/3/1984	5	1403	434.84	347.367256	87.472744	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/7/1986	7	2137	432.14	334.282786	97.857214	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/12/1987	8	2507	432.26	333.595998	98.664002	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/12/1988	9	2873	431.85	344.030317	87.819683	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/14/1990	11	3605	433.03	346.400937	86.629063	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	12/10/1991	12	3996	434.48	344.373458	90.106542	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/18/1992	13	4340	433.88	350.645811	83.234189	418	418	500
3558401	6510938.508	20016216.13	88	106	1445404	522201	7	11/17/1995	16	5434	433.53	343.746932	89.783068	418	418	500
3558402	6512219.674	20014552.46	89	106	1525000	566738	8	3/20/1981	2	79	319.9	279.50407	40.39593	33	28	528
3558403	6510445.94	20013861.6	89	106	1445869	522494	7	3/19/1981	2	78	452	374.572324	77.427676		435	495
3558404	6512195.017	20013233.13	89	106	1525000	566738	8	7/9/1996	17	5669	297	264.50326	32.49674	20	20	513
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	2/23/2011	32	11011	280.2	248.675547	31.524453		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	4/21/2011	32	11068	279.8	246.927561	32.872439		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/12/2011	32	11181	277.6	244.571055	33.028945		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/30/2011	32	11291	277	242.801186	34.198814		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/27/2012	33	11409	277.6	243.870147	33.729853		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/16/2012	33	11490	278.39	244.649739	33.740261		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/21/2012	33	11495	278.37	244.689358	33.680642		-85	415

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/26/2012	33	11500	278.34	244.728978	33.611022		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/1/2012	33	11505	278.29	244.761724	33.528276		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/6/2012	33	11510	278.22	244.787391	33.432609		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/11/2012	33	11515	278.17	244.813059	33.356941		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/16/2012	33	11520	278.08	244.838726	33.241274		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/21/2012	33	11525	277.97	244.864393	33.105607		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/26/2012	33	11530	277.91	244.89006	33.01994		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/31/2012	33	11535	277.85	244.915727	32.934273		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/6/2012	33	11541	277.74	244.946528	32.793472		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/11/2012	33	11546	277.61	244.972195	32.637805		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/16/2012	33	11551	277.41	244.997862	32.412138		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/21/2012	33	11556	277.25	245.023529	32.226471		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/31/2012	33	11566	271.96	245.074864	26.885136		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/6/2012	33	11572	271.71	245.105664	26.604336		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/11/2012	33	11577	271.53	245.131331	26.398669		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/16/2012	33	11582	271.43	245.156999	26.273001		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/21/2012	33	11587	271.25	245.182666	26.067334		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/26/2012	33	11592	271.02	245.202138	25.817862		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/1/2012	33	11597	270.93	245.221224	25.708776		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/6/2012	33	11602	270.89	245.24031	25.64969		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/11/2012	33	11607	270.98	245.259396	25.720604		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/16/2012	33	11612	271.1	245.278483	25.821517		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/21/2012	33	11617	271.2	245.297569	25.902431		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/26/2012	33	11622	271.31	245.316655	25.993345		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/31/2012	33	11627	271.35	245.335741	26.014259		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/6/2012	33	11633	271.27	245.358645	25.911355		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/8/2012	33	11635	271.21	245.366279	25.843721		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/11/2012	33	11638	270.95	245.377731	25.572269		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/16/2012	33	11643	270.53	245.396817	25.133183		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/21/2012	33	11648	270.52	245.415904	25.104096		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/26/2012	33	11653	270.62	245.43499	25.18501		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/1/2012	33	11658	270.75	245.454076	25.295924		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/6/2012	33	11663	270.91	245.473162	25.436838		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/16/2012	33	11673	271.24	245.511335	25.728665		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/21/2012	33	11678	271.31	245.530421	25.779579		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/26/2012	33	11683	271.54	245.549507	25.990493		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/31/2012	33	11688	271.48	245.568594	25.911406		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	1/6/2013	34	11694	271.69	245.744935	25.945065		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	1/11/2013	34	11699	272.04	245.917458	26.122542		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	1/16/2013	34	11704	272.05	246.089982	25.960018		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	1/21/2013	34	11709	272.1	246.262505	25.837495		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	1/26/2013	34	11714	272.28	246.435029	25.844971		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	1/31/2013	34	11719	272.56	246.607553	25.952447		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	2/6/2013	34	11725	272.73	246.814581	25.915419		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	2/11/2013	34	11730	273.02	246.987105	26.032895		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	2/16/2013	34	11735	273.18	247.159628	26.020372		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	2/21/2013	34	11740	273.38	247.321436	26.058564		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	2/26/2013	34	11745	273.74	247.466498	26.273502		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/1/2013	34	11748	273.74	247.553535	26.186465		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/6/2013	34	11753	273.86	247.698597	26.161403		-85	415

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/11/2013	34	11758	273.85	247.84366	26.00634		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/16/2013	34	11763	273.3	247.988722	25.311278		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/21/2013	34	11768	272.81	248.133784	24.676216		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/26/2013	34	11773	272.34	248.278846	24.061154		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	3/31/2013	34	11778	271.98	248.423909	23.556091		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	4/6/2013	34	11784	271.48	248.597983	22.882017		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	4/9/2013	34	11787	271.49	248.685021	22.804979		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	4/11/2013	34	11789	271.4	248.743046	22.656954		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	4/16/2013	34	11794	271.29	248.888108	22.401892		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	4/21/2013	34	11799	271.04	249.023185	22.016815		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	4/26/2013	34	11804	270.98	249.144391	21.835609		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	5/1/2013	34	11809	270.85	249.265597	21.584403		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	5/6/2013	34	11814	270.44	249.386802	21.053198		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	5/11/2013	34	11819	270.36	249.508008	20.851992		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	5/16/2013	34	11824	270.32	249.629214	20.690786		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	5/21/2013	34	11829	270.55	249.75042	20.79958		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	5/26/2013	34	11834	270.33	249.871626	20.458374		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	5/31/2013	34	11839	269.76	249.992832	19.767168		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/6/2013	34	11845	269.01	250.138279	18.871721		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/11/2013	34	11850	268.58	250.259485	18.320515		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/16/2013	34	11855	268.11	250.38069	17.72931		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/21/2013	34	11860	267.68	250.501896	17.178104		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	6/26/2013	34	11865	267.3	250.623102	16.676898		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/1/2013	34	11870	266.92	250.73588	16.18412		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/6/2013	34	11875	266.38	250.839977	15.540023		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/11/2013	34	11880	265.85	250.944073	14.905927		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/16/2013	34	11885	265.45	251.04817	14.40183		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/21/2013	34	11890	265.24	251.152267	14.087733		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/26/2013	34	11895	265.16	251.256363	13.903637		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	7/31/2013	34	11900	265.19	251.36046	13.82954		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/6/2013	34	11906	264.85	251.485376	13.364624		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/11/2013	34	11911	264.86	251.589472	13.270528		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/16/2013	34	11916	265.03	251.693569	13.336431		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/21/2013	34	11921	265.26	251.797665	13.462335		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/26/2013	34	11926	265.38	251.901762	13.478238		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	8/31/2013	34	11931	265.61	252.005858	13.604142		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/6/2013	34	11937	265.72	252.130774	13.589226		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/11/2013	34	11942	265.74	252.234871	13.505129		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/16/2013	34	11947	265.83	252.338967	13.491033		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/21/2013	34	11952	265.93	252.443064	13.486936		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	9/26/2013	34	11957	266.08	252.53328	13.54672		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/1/2013	34	11962	266.12	252.622633	13.497367		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/6/2013	34	11967	266.09	252.711985	13.378015		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/11/2013	34	11972	266.01	252.801338	13.208662		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/16/2013	34	11977	266.07	252.89069	13.17931		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/21/2013	34	11982	266.14	252.980043	13.159957		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/26/2013	34	11987	266.17	253.069395	13.100605		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	10/31/2013	34	11992	266.52	253.158748	13.361252		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/6/2013	34	11998	267.1	253.265971	13.834029		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/11/2013	34	12003	267.25	253.355323	13.894677		-85	415

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/15/2013	34	12007	267.21	253.426805	13.783195		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/16/2013	34	12008	267.57	253.444676	14.125324		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/21/2013	34	12013	267.73	253.534028	14.195972		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	11/26/2013	34	12018	268.08	253.623381	14.456619		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/1/2013	34	12023	268.25	253.712734	14.537266		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/6/2013	34	12028	268.51	253.802086	14.707914		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/11/2013	34	12033	268.32	253.891439	14.428561		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/16/2013	34	12038	268.11	253.980791	14.129209		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/21/2013	34	12043	267.83	254.070144	13.759856		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/26/2013	34	12048	267.4	254.159496	13.240504		-85	415
3558405	6505172.642	20023753.91	86	106	1523767	565885	8	12/31/2013	34	12053	267.1	254.248849	12.851151		-85	415
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	5/2/2009	30	10349	353.8	254.607321	99.192679		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	9/2/2009	30	10472	300.5	254.720457	45.779543		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	3/13/2010	31	10664	302	252.37691	49.62309		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	5/2/2010	31	10714	301	251.513922	49.486078		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	9/2/2010	31	10837	300.3	250.419899	49.880101		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	12/2/2010	31	10928	301	249.905116	51.094884		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	2/23/2011	32	11011	300.3	247.173032	53.126968		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	4/21/2011	32	11068	300	245.36155	54.63845		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	8/12/2011	32	11181	298.4	243.048607	55.351393		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	11/30/2011	32	11291	298.6	241.339432	57.260568		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	3/27/2012	33	11409	298.6	242.815761	55.784239		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	6/20/2012	33	11494	298.6	243.701167	54.898833		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	9/15/2012	33	11581	298	244.179471	53.820529		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	12/19/2012	33	11676	297.3	244.549112	52.750888		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	3/21/2013	34	11768	298.2	247.407131	50.792869		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	6/15/2013	34	11854	296.8	249.661244	47.138756		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	9/24/2013	34	11955	295.2	251.790691	43.409309		59	439
3558408	6514806.726	20021768.78	88	107	1524656	566456	8	12/20/2013	34	12042	296.1	253.333127	42.766873		59	439
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	5/2/2009	30	10349	229.3	349.229124	-119.92912		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	9/2/2009	30	10472	230.1	348.089429	-117.98943		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	3/13/2010	31	10664	231.2	346.957892	-115.75789		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	5/2/2010	31	10714	228	346.760827	-118.76083		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	12/2/2010	31	10928	227.8	346.021017	-118.22102		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	2/9/2011	32	10997	228.6	345.334985	-116.73499		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	4/21/2011	32	11068	228.5	344.239031	-115.73903		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	7/30/2011	32	11168	225.8	342.815981	-117.01598		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	11/22/2011	32	11283	224.4	341.35112	-116.95112		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	3/28/2012	33	11410	227.7	341.257533	-113.55753		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	6/20/2012	33	11494	228	341.703834	-113.70383		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	9/15/2012	33	11581	226	342.139019	-116.13902		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	12/19/2012	33	11676	226.6	342.554111	-115.95411		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	3/21/2013	34	11768	229	345.102708	-116.10271		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	6/25/2013	34	11864	227.6	347.815406	-120.21541		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	9/18/2013	34	11949	225.2	349.868098	-124.6681		-92	468
3558503	6529979.78	20019032.82	90	110	1446377	522811	7	12/19/2013	34	12041	227.2	351.805083	-124.60508		-92	468
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	5/2/2009	30	10349	257.4	352.894248	-95.494248		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	9/2/2009	30	10472	256.8	351.673194	-94.873194		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	3/25/2010	31	10676	258	350.333661	-92.333661		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	9/2/2010	31	10837	256.4	349.670853	-93.270853		21	381

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	12/2/2010	31	10928	256.9	349.362013	-92.462013		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	2/9/2011	32	10997	256.8	348.717161	-91.917161		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	4/21/2011	32	11068	256.4	347.651026	-91.251026		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	7/30/2011	32	11168	255.6	346.198714	-90.598714		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	11/22/2011	32	11283	254.8	344.689119	-89.889119		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	3/28/2012	33	11410	256.2	344.415165	-88.215165		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	6/20/2012	33	11494	256.4	344.80657	-88.40657		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	9/15/2012	33	11581	255.3	345.234707	-89.934707		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	12/19/2012	33	11676	255.6	345.663445	-90.063445		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	3/21/2013	34	11768	256.7	348.042268	-91.342268		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	6/25/2013	34	11864	256.2	350.806203	-94.606203		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	9/18/2013	34	11949	255.3	352.978097	-97.678097		21	381
3558602	6539025.529	20018648.75	90	111	1446378	522812	7	12/19/2013	34	12041	256.1	355.014272	-98.914272		21	381
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	5/2/2009	30	10349	237.9	260.12109	-22.22109		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	9/2/2009	30	10472	239.1	260.166921	-21.066921		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	3/13/2010	31	10664	241	258.195022	-17.195022		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	12/2/2010	31	10928	241.1	255.940622	-14.840622		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	2/9/2011	32	10997	241.2	254.261187	-13.061187		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	4/21/2011	32	11068	241.1	252.126976	-11.026976		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	3/28/2012	33	11410	240.9	249.476822	-8.576822		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	9/15/2012	33	11581	240.5	250.661567	-10.161567		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	12/19/2012	33	11676	240.3	251.00287	-10.70287		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	3/21/2013	34	11768	241	253.410963	-12.410963		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	6/25/2013	34	11864	241	255.708595	-14.708595		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	9/18/2013	34	11949	240.3	257.376717	-17.076717		-252	348
3558901	6538298.137	20008577.95	92	110	1526360	567894	8	12/19/2013	34	12041	240.9	258.933847	-18.033847		-252	348
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	2/2/2006	27	9164	227.6	251.575634	-23.975634	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	3/2/2006	27	9192	228.4	250.187027	-21.787027	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	4/6/2006	27	9227	207.2	249.221069	-42.021069	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	5/4/2006	27	9255	219.4	248.640478	-29.240478	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	6/2/2006	27	9284	227.2	248.235569	-21.035569	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	7/4/2006	27	9316	229.2	247.810905	-18.610905	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	8/2/2006	27	9345	203.6	247.54981	-43.94981	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	9/2/2006	27	9376	206.8	247.270707	-40.470707	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	10/3/2006	27	9407	228.2	247.015215	-18.815215	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	11/2/2006	27	9437	231.3	246.811268	-15.511268	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	12/2/2006	27	9467	227.2	246.607322	-19.407322	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	1/3/2007	28	9499	232.4	246.458722	-14.058722	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	2/2/2007	28	9529	227.5	248.323035	-20.823035	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	3/2/2007	28	9557	228.6	249.679748	-21.079748	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	4/3/2007	28	9589	228.6	250.435728	-21.835728	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	5/2/2007	28	9618	230	250.936686	-20.936686	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	6/2/2007	28	9649	230.6	251.196975	-20.596975	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	7/3/2007	28	9680	231.8	251.439238	-19.639238	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	8/2/2007	28	9710	178.6	251.534959	-72.934959	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	9/4/2007	28	9743	230	251.640253	-21.640253	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	10/2/2007	28	9771	224.6	251.711994	-27.111994	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	11/2/2007	28	9802	224.4	251.754701	-27.354701	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	12/4/2007	28	9834	228.2	251.798786	-23.598786	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	1/3/2008	29	9864	229.2	251.798809	-22.598809	-31	-53	562

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	2/2/2008	29	9894	232.6	250.600947	-18.000947	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	3/4/2008	29	9925	233	249.657061	-16.657061	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	4/2/2008	29	9954	233.4	249.157233	-15.757233	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	5/1/2008	29	9983	234	248.768073	-14.768073	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	6/1/2008	29	10014	232.8	248.517475	-15.717475	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	7/1/2008	29	10044	231.4	248.283208	-16.883208	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	8/1/2008	29	10075	196	248.136409	-52.136409	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	9/1/2008	29	10106	229.4	247.989611	-18.589611	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	10/1/2008	29	10136	228	247.861242	-19.861242	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	11/1/2008	29	10167	226.3	247.758176	-21.458176	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	12/1/2008	29	10197	221.8	247.658436	-25.858436	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	1/1/2009	30	10228	225.2	247.55537	-22.35537	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	2/1/2009	30	10259	224.7	249.090715	-24.390715	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	3/1/2009	30	10287	221.6	250.148956	-28.548956	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	4/2/2009	30	10319	224.7	250.663005	-25.963005	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	5/2/2009	30	10349	225.8	250.978943	-25.178943	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	6/2/2009	30	10380	226.3	251.074868	-24.774868	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	7/2/2009	30	10410	177.6	251.154585	-73.554585	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	8/4/2009	30	10443	223.8	251.111165	-27.311165	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	9/2/2009	30	10472	224.4	251.073007	-26.673007	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	10/2/2009	30	10502	178.2	251.02229	-72.82229	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	11/3/2009	30	10534	231.4	250.944149	-19.544149	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	12/3/2009	30	10564	230.8	250.870892	-20.070892	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	1/13/2010	31	10605	230	250.191877	-20.191877	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	2/4/2010	31	10627	232.6	248.980361	-16.380361	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	3/3/2010	31	10654	233.5	247.834019	-14.334019	-31	-53	562
3559102	6555466.365	20034435.09	89	115	1525012	566750	8	4/6/2010	31	10688	233	247.018879	-14.018879	-31	-53	562
3559103	6555466.365	20034435.09	89	115	1525012	566750	8	6/19/1983	4	900	216	246.93714	-30.93714	-104	-114	566
3559103	6555466.365	20034435.09	89	115	1525012	566750	8	4/10/1988	9	2657	171.45	225.048892	-53.598892	-104	-114	566
3559104	6553034.321	20038576.75	88	115	1524670	566470	8	9/2/2009	30	10472	235.6	238.678758	-3.078758		17	517
3559105	6551408.997	20040222.59	88	115	1445452	522249	7	9/2/2009	30	10472	246.5	357.951509	-111.45151		51	471
3559105	6551408.997	20040222.59	88	115	1445452	522249	7	3/23/2010	31	10674	246.7	356.463853	-109.76385		51	471
3559106	6554576.271	20040475.26	88	116	1524671	566471	8	9/2/2009	30	10472	171.1	220.937594	-49.837594		-133	467
3559106	6554576.271	20040475.26	88	116	1524671	566471	8	9/2/2010	31	10837	183.7	220.05368	-36.35368		-133	467
3559107	6550632.749	20041544.02	88	115	1524670	566470	8	9/2/2009	30	10472	155.6	230.175099	-74.575099		-90	450
3559107	6550632.749	20041544.02	88	115	1524670	566470	8	3/23/2010	31	10674	167	224.463811	-57.463811		-90	450
3559107	6550632.749	20041544.02	88	115	1524670	566470	8	9/14/2012	33	11580	152.7	216.297674	-63.597674		-90	450
3559107	6550632.749	20041544.02	88	115	1524670	566470	8	12/22/2012	33	11679	166.8	216.708893	-49.908893		-90	450
3559107	6550632.749	20041544.02	88	115	1524670	566470	8	3/28/2013	34	11775	179.7	222.050543	-42.350543		-90	450
3559107	6550632.749	20041544.02	88	115	1524670	566470	8	9/18/2013	34	11949	154.4	226.426477	-72.026477		-90	450
3559107	6550632.749	20041544.02	88	115	1524670	566470	8	12/19/2013	34	12041	161.6	228.034408	-66.434408		-90	450
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	9/2/2009	30	10472	150	234.244959	-84.244959		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	3/23/2010	31	10674	161.8	228.934665	-67.134665		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	12/2/2010	31	10928	157.9	226.288624	-68.388624		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	1/27/2011	32	10984	158	223.508792	-65.508792		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	4/20/2011	32	11067	158.8	218.48761	-59.68761		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	8/17/2011	32	11186	149.8	216.01075	-66.21075		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	11/22/2011	32	11283	145.8	214.620669	-68.820669		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	3/30/2012	33	11412	168.7	218.952497	-50.252497		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	6/16/2012	33	11490	157.4	220.223399	-62.823399		-94	446

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	9/14/2012	33	11580	148	220.830138	-72.830138		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	3/28/2013	34	11775	173.7	226.268566	-52.568566		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	6/26/2013	34	11865	165.4	228.848909	-63.448909		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	9/20/2013	34	11951	149.8	230.648443	-80.848443		-94	446
3559108	6549909.202	20039238.64	88	115	1524670	566470	8	12/19/2013	34	12041	156.6	232.218514	-75.618514		-94	446
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	9/2/2009	30	10472	265.1	359.547896	-94.447896		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	3/23/2010	31	10674	265.2	358.137526	-92.937526		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	9/2/2010	31	10837	264.9	357.361706	-92.461706		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	12/2/2010	31	10928	266.3	357.018595	-90.718595		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	1/27/2011	32	10984	266.5	356.503605	-90.003605		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	4/20/2011	32	11067	267.1	355.127886	-88.027886		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	8/17/2011	32	11186	265.7	353.295618	-87.595618		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	10/27/2011	32	11257	266.4	352.321566	-85.921566		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	3/30/2012	33	11412	263.5	351.801124	-88.301124		101	521
3559109	6555530.349	20038493.3	89	116	1445903	522528	7	6/16/2012	33	11490	262.5	352.216992	-89.716992		101	521
3559204	6556156.746	20041564.65	88	116	1524671	566471	8	9/2/2009	30	10472	248.3	245.394772	2.905228		4	464
3559204	6556156.746	20041564.65	88	116	1524671	566471	8	3/23/2010	31	10674	247.7	242.088674	5.611326		4	464
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	9/2/2009	30	10472	228.7	359.734118	-131.03412		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	3/23/2010	31	10674	229.1	358.381024	-129.28102		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	9/2/2010	31	10837	228.7	357.643128	-128.94313		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	12/2/2010	31	10928	231.7	357.313626	-125.61363		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	1/27/2011	32	10984	231.9	356.804714	-124.90471		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	4/20/2011	32	11067	232.4	355.447693	-123.04769		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	8/17/2011	32	11186	230.4	353.665299	-123.2653		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	11/30/2011	32	11291	227.5	352.299499	-124.7995		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	3/30/2012	33	11412	227.5	352.2648	-124.7648		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	6/16/2012	33	11490	226.5	352.687204	-126.1872		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	9/14/2012	33	11580	227.3	353.158352	-125.85835		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	12/22/2012	33	11679	231.4	353.618679	-122.21868		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	3/28/2013	34	11775	233.9	356.394224	-122.49422		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	6/26/2013	34	11865	234.2	359.077087	-124.87709		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	9/20/2013	34	11951	233.1	361.303569	-128.20357		-50	450
3559205	6557860.441	20040439.83	89	116	1445903	522528	7	12/19/2013	34	12041	235.1	363.277482	-128.17748		-50	450
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	9/2/2009	30	10472	248.3	249.032236	-0.732236		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	3/23/2010	31	10674	247.7	245.063774	2.636226		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	5/2/2010	31	10714	247.6	244.228786	3.371214		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	9/2/2010	31	10837	246.4	243.125253	3.274747		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	12/2/2010	31	10928	249	242.669407	6.330593		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	1/27/2011	32	10984	248.8	240.615227	8.184773		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	4/20/2011	32	11067	250.2	236.621303	13.578697		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	8/17/2011	32	11186	248.2	234.316032	13.883968		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	10/27/2011	32	11257	248.6	233.311693	15.288307		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	3/30/2012	33	11412	242.6	235.927502	6.672498		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	6/16/2012	33	11490	242.5	236.992754	5.507246		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	9/14/2012	33	11580	244.8	237.5466	7.2534		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	12/22/2012	33	11679	249.9	237.931136	11.968864		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	3/28/2013	34	11775	252.4	241.901334	10.498666		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	6/26/2013	34	11865	252.2	244.281577	7.918423		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	9/20/2013	34	11951	251.7	246.000905	5.699095		7	487
3559206	6556830.937	20038251.41	89	116	1525013	566751	8	12/19/2013	34	12041	253.8	247.511298	6.288702		7	487

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559403	6544882.946	20018419.62	91	112	1447009	523084	7	11/15/1987	8	2510	348	348.70402	-0.70402	210	210	437
3559403	6544882.946	20018419.62	91	112	1447009	523084	7	4/9/1988	9	2656	367.3	352.506091	14.793909	210	210	437
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	9/2/2010	31	10837	212.4	256.68035	-44.28035		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	12/2/2010	31	10928	212	256.216927	-44.216927		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	2/17/2011	32	11005	212.7	254.007262	-41.307262		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	4/19/2011	32	11066	212.7	252.168258	-39.468258		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	8/12/2011	32	11181	210.6	250.024236	-39.424236		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	11/8/2011	32	11269	206.2	248.771281	-42.571281		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	3/30/2012	33	11412	210.5	249.835078	-39.335078		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	6/16/2012	33	11490	210.5	250.588776	-40.088776		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	9/15/2012	33	11581	209.8	251.06374	-41.26374		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	12/22/2012	33	11679	210.5	251.417563	-40.917563		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	3/28/2013	34	11775	211.8	254.179493	-42.379493		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	6/26/2013	34	11865	212.6	256.341283	-43.741283		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	9/20/2013	34	11951	211.2	258.026257	-46.826257		-221	379
3559404	6550284.779	20015128.33	92	113	1526363	567897	8	12/19/2013	34	12041	211.4	259.538518	-48.138518		-221	379
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	5/2/2009	30	10349	278.2	253.849101	24.350899		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	9/2/2009	30	10472	279	253.922051	25.077949		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	10/9/2009	30	10509	281.5	253.856545	27.643455		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	3/23/2010	31	10674	279.1	250.701767	28.398233		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	9/2/2010	31	10837	278.7	248.867003	29.832997		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	12/2/2010	31	10928	279.3	248.391854	30.908146		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	2/17/2011	32	11005	278.5	245.424315	33.075685		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	4/19/2011	32	11066	278.2	243.282023	34.917977		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	8/12/2011	32	11181	277.5	241.011229	36.488771		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	11/8/2011	32	11269	277.9	239.723262	38.176738		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	3/30/2012	33	11412	278.7	241.628931	37.071069		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	6/16/2012	33	11490	277.7	242.547067	35.152933		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	9/15/2012	33	11581	278	243.072824	34.927176		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	12/22/2012	33	11679	279.2	243.4478	35.7522		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	3/28/2013	34	11775	278	246.862208	31.137792		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	6/26/2013	34	11865	278	249.186669	28.813331		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	9/20/2013	34	11951	277.7	250.935135	26.764865		93	513
3559405	6545567.11	20023926.52	90	113	1525385	567070	8	12/19/2013	34	12041	278.1	252.490988	25.609012		93	513
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	8/2/2009	30	10441	254.1	359.309081	-105.20908		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	2/25/2010	31	10648	255.8	357.892623	-102.09262		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	5/2/2010	31	10714	245	357.649277	-112.64928		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	12/2/2010	31	10928	247.2	356.977307	-109.77731		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	1/7/2011	32	10964	237	356.825607	-119.82561		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	4/20/2011	32	11067	241.3	355.459377	-114.15938		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	8/12/2011	32	11181	242.3	354.015172	-111.71517		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	11/8/2011	32	11269	242	353.013308	-111.01331		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	3/30/2012	33	11412	247	352.687485	-105.68749		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	6/16/2012	33	11490	244.5	353.015682	-108.51568		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	9/14/2012	33	11580	248.8	353.40715	-104.60715		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	12/22/2012	33	11679	253.4	353.806908	-100.40691		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	3/28/2013	34	11775	254	356.261585	-102.26159		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	6/26/2013	34	11865	254.6	358.650413	-104.05041		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	9/25/2013	34	11956	255.6	360.725641	-105.12564		124	524
3559503	6564505.561	20018039.36	93	115	1448257	523686	7	12/19/2013	34	12041	256.6	362.362988	-105.76299		124	524

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/20/1981	2	324	277.91	274.429146	3.480854		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/20/1982	3	689	278.16	273.51049	4.64951		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/19/1983	4	1053	283.89	275.367978	8.522022		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/10/1984	5	1410	282.84	278.951804	3.888196		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/6/1985	6	1771	282	274.101435	7.898565		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/13/1986	7	2143	281.55	267.561882	13.988118		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/12/1987	8	2507	280	266.008151	13.991849		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/15/1988	9	2876	278.07	268.413242	9.656758		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	10/13/1989	10	3208	277.25	273.03044	4.21956		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/11/1990	11	3602	276.53	274.154029	2.375971		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	12/8/1991	12	3994	276.9	272.912106	3.987894		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/19/1992	13	4341	274.6	274.587211	0.012789		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	12/15/1993	14	4732	275.52	270.372528	5.147472		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/18/1994	15	5070	262.18	267.217695	-5.037695		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/17/1995	16	5434	273.74	265.591957	8.148043		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/21/1997	18	6169	272.85	260.581273	12.268727		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	12/17/1998	19	6560	268.41	263.878271	4.531729		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/10/1999	20	6888	270.3	271.875496	-1.575496		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/11/2000	21	7255	270.23	272.580164	-2.350164		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/7/2001	22	7616	265.4	265.355893	0.044107		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/13/2002	23	7987	270.55	255.752936	14.797064		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/12/2003	24	8351	271.04	259.415955	11.624045		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/12/2004	25	8717	271.48	260.129897	11.350103		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	12/8/2005	26	9108	270.41	269.196522	1.213478		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/15/2006	27	9450	263.08	266.299339	-3.219339		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/14/2007	28	9814	255.79	264.773932	-8.983932		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/19/2008	29	10185	259.59	266.556834	-6.966834		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/20/2009	30	10551	262.76	267.573191	-4.813191		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	10/26/2011	32	11256	264.62	258.4579	6.1621		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/8/2012	33	11635	265.12	259.819083	5.300917		138	380
3559601	6579469.312	20019775.85	94	118	1527442	568641	8	11/14/2013	34	12006	266.66	266.090729	0.569271		138	380
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	9/2/2009	30	10472	249.5	262.330483	-12.830483		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	3/17/2010	31	10668	251.1	260.239772	-9.139772		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	9/2/2010	31	10837	252.9	258.546196	-5.646196		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	12/2/2010	31	10928	253.3	258.086927	-4.786927		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	2/17/2011	32	11005	255.9	256.087156	-0.187156		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	4/19/2011	32	11066	256.4	254.346644	2.053356		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	8/12/2011	32	11181	257.3	252.246685	5.053315		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	11/8/2011	32	11269	256.2	251.005398	5.194602		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	3/30/2012	33	11412	259.7	251.828521	7.871479		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	6/16/2012	33	11490	258.6	252.525761	6.074239		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	9/5/2012	33	11571	255.7	252.935303	2.764697		5	425
3559703	6552546.568	20010978.24	93	113	1526900	568296	8	12/22/2012	33	11679	257.6	253.327392	4.272608		5	425
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	9/2/2009	30	10472	258.7	262.778181	-4.078181		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	2/25/2010	31	10648	259.9	261.061857	-1.161857		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	5/2/2010	31	10714	262.3	260.023741	2.276259		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	9/2/2010	31	10837	262.7	259.042635	3.657365		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	12/2/2010	31	10928	261.2	258.585772	2.614228		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	2/17/2011	32	11005	264.9	256.620451	8.279549		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	4/19/2011	32	11066	265.2	254.900511	10.299489		12	412

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	8/12/2011	32	11181	266.5	252.815319	13.684681		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	11/8/2011	32	11269	265.3	251.580791	13.719209		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	3/30/2012	33	11412	268.3	252.369242	15.930758		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	6/16/2012	33	11490	267.5	253.055822	14.444178		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	9/15/2012	33	11581	265.3	253.50725	11.79275		12	412
3559704	6554333.146	20010485.68	93	113	1526900	568296	8	12/22/2012	33	11679	267	253.850648	13.149352		12	412
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	5/2/2009	30	10349	280.9	354.549517	-73.649517		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	9/2/2009	30	10472	282.1	353.283343	-71.183343		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	2/25/2010	31	10648	284.8	352.064737	-67.264737		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	9/2/2010	31	10837	283.4	351.397968	-67.997968		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	12/2/2010	31	10928	284	351.138217	-67.138217		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	1/7/2011	32	10964	285	350.985981	-65.985981		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	4/19/2011	32	11066	285.6	349.589431	-63.989431		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	8/12/2011	32	11181	286.1	348.072932	-61.972932		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	11/8/2011	32	11269	285.6	347.031455	-61.431455		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	3/30/2012	33	11412	287.4	346.69638	-59.29638		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	6/16/2012	33	11490	286.4	347.058716	-60.658716		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	9/15/2012	33	11581	286.8	347.487543	-60.687543		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	12/22/2012	33	11679	288.2	347.906296	-59.706296		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	3/28/2013	34	11775	288.1	350.439699	-62.339699		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	9/20/2013	34	11951	288.4	355.086458	-66.686458		70	452
3559705	6556664.225	20005801.81	94	113	1448888	523935	7	12/19/2013	34	12041	289.4	356.940696	-67.540696		70	452
3559706	6553363.825	20011514	93	113	1448255	523684	7	9/2/2009	30	10472	260.2	355.056525	-94.856525		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	3/17/2010	31	10668	262.6	353.720491	-91.120491		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	12/2/2010	31	10928	262.4	352.798334	-90.398334		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	2/17/2011	32	11005	265.8	352.107881	-86.307881		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	11/8/2011	32	11269	266.2	348.635934	-82.435934		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	3/30/2012	33	11412	267.4	348.189195	-80.789195		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	6/16/2012	33	11490	266.5	348.51133	-82.01133		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	9/15/2012	33	11581	270	348.927912	-78.927912		68	448
3559706	6553363.825	20011514	93	113	1448255	523684	7	12/22/2012	33	11679	268.8	349.351528	-80.551528		68	448
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	11/19/1983	4	1053	343.8	355.736826	-11.936826	109	109	521
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	11/13/1986	7	2143	334.77	348.709177	-13.939177	109	109	521
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	11/15/1988	9	2876	374.68	358.587693	16.092307	109	109	521
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	11/11/1990	11	3602	376.99	361.87691	15.11309	109	109	521
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	12/8/1991	12	3994	372.48	359.308238	13.171762	109	109	521
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	12/15/1993	14	4732	331.2	358.153878	-26.953878	109	109	521
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	11/18/1994	15	5070	321.45	351.861193	-30.411193	109	109	521
3559801	6559331.931	20002178.78	95	113	1449404	524185	7	11/17/1995	16	5434	330.55	358.681782	-28.131782	109	109	521
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	5/2/2009	30	10349	246.5	265.742064	-19.242064		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	9/2/2009	30	10472	253.1	265.739683	-12.639683		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	9/26/2009	30	10496	252.1	265.704768	-13.604768		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	2/25/2010	31	10648	252.9	264.174357	-11.274357		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	12/2/2010	31	10928	254.1	261.859728	-7.759728		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	1/7/2011	32	10964	255.2	261.543172	-6.343172		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	4/20/2011	32	11067	256.5	258.466275	-1.966275		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	8/12/2011	32	11181	256.8	256.529404	0.270596		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	11/8/2011	32	11269	257.3	255.358155	1.941845		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	3/30/2012	33	11412	258.5	255.989745	2.510255		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	6/16/2012	33	11490	256.6	256.606878	-0.006878		30	540

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	9/14/2012	33	11580	259.9	257.018986	2.881014		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	12/22/2012	33	11679	264	257.345151	6.654849		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	3/28/2013	34	11775	263.9	259.687604	4.212396		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	6/26/2013	34	11865	264	261.660831	2.339169		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	9/20/2013	34	11951	264.3	263.241738	1.058262		30	540
3559804	6567089.613	20011695.54	94	115	1527439	568638	8	12/19/2013	34	12041	265.9	264.673333	1.226667		30	540
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	5/2/2009	30	10349	223.2	264.671719	-41.471719		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	2/25/2010	31	10648	227.8	263.268194	-35.468194		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	9/2/2010	31	10837	227.8	261.433695	-33.633695		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	12/2/2010	31	10928	227.6	260.984749	-33.384749		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	1/7/2011	32	10964	229.6	260.681662	-31.081662		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	4/19/2011	32	11066	229.4	257.822446	-28.422446		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	8/12/2011	32	11181	224.6	255.821226	-31.221226		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	11/8/2011	32	11269	225	254.606703	-29.606703		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	3/30/2012	33	11412	228.2	254.989255	-26.789255		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	6/16/2012	33	11490	227.4	255.566807	-28.166807		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	9/15/2012	33	11581	226.5	255.978763	-29.478763		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	12/22/2012	33	11679	224.8	256.305736	-31.505736		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	3/28/2013	34	11775	223.9	258.527156	-34.627156		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	6/18/2013	34	11857	225.2	260.342566	-35.142566		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	9/20/2013	34	11951	225.8	262.12429	-36.32429		-136	444
3559805	6558078.714	20001408.76	95	113	1527857	568911	8	12/19/2013	34	12041	226	263.585462	-37.585462		-136	444
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	12/2/2010	31	10928	286.4	353.251175	-66.851175		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	1/7/2011	32	10964	287.8	353.097535	-65.297535		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	4/20/2011	32	11067	288.8	351.590035	-62.790035		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	8/12/2011	32	11181	288.2	350.157251	-61.957251		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	11/8/2011	32	11269	289	349.188514	-60.188514		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	3/30/2012	33	11412	290.7	349.125933	-58.425933		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	6/16/2012	33	11490	289.2	349.532342	-60.332342		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	9/14/2012	33	11580	289.7	349.951027	-60.251027		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	12/22/2012	33	11679	292.2	350.350718	-58.150718		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	3/28/2013	34	11775	292.2	353.166038	-60.966038		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	6/26/2013	34	11865	292	355.638677	-63.638677		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	9/20/2013	34	11951	292.2	357.588207	-65.388207		46	469
3559806	6565017.836	20005594.07	95	114	1449406	524187	7	12/19/2013	34	12041	293.6	359.262322	-65.662322		46	469
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/20/1981	2	324	270.52	273.713488	-3.193488	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/20/1982	3	689	272.57	272.833286	-0.263286	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/19/1983	4	1053	269.5	274.386295	-4.886295	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/10/1984	5	1410	264.81	277.85938	-13.04938	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/6/1985	6	1771	262.83	273.628828	-10.798828	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/13/1986	7	2143	261.24	267.053776	-5.813776	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/12/1987	8	2507	258.76	265.395065	-6.635065	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/15/1988	9	2876	258.66	268.467187	-9.807187	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	10/13/1989	10	3208	257.23	272.896266	-15.666266	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/11/1990	11	3602	257.78	273.994425	-16.214425	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	12/8/1991	12	3994	256.9	273.166584	-16.266584	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/19/1992	13	4341	255.48	275.559596	-20.079596	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	12/15/1993	14	4732	255.2	271.405212	-16.205212	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/18/1994	15	5070	255.12	268.101492	-12.981492	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/17/1995	16	5434	254.22	267.087543	-12.867543	-23	-23	457

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/23/1996	17	5806	253.83	259.9996	-6.1696	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/10/1999	20	6888	254.4	272.818926	-18.418926	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/13/2002	23	7987	251.82	259.436678	-7.616678	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/11/2003	24	8350	252.68	262.932936	-10.252936	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/12/2004	25	8717	253.26	262.950867	-9.690867	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	4/18/2006	27	9239	245.55	261.549498	-15.999498	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/14/2007	28	9814	241.61	260.344606	-18.734606	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/19/2008	29	10185	252.55	266.363638	-13.813638	-23	-23	457
3559902	6571225.256	20001736.35	96	115	1528272	569185	8	11/20/2009	30	10551	250.43	266.986983	-16.556983	-23	-23	457
3559903	6575717.803	20001345.28	97	116	1528706	569466	8	7/16/1981	2	197	307.3	284.158718	23.141282		-170	580
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	10/3/2006	27	9407	272	359.113486	-87.113486		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	11/2/2006	27	9437	274.8	358.928905	-84.128905		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	12/2/2006	27	9467	275.6	358.744325	-83.144325		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	1/3/2007	28	9499	273.6	358.546817	-84.946817		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	2/2/2007	28	9529	275.5	358.343553	-82.843553		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	3/2/2007	28	9557	270.9	358.171264	-87.271264		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	4/3/2007	28	9589	274.6	358.010479	-83.410479		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	5/2/2007	28	9618	270.9	357.877278	-86.977278		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	6/2/2007	28	9649	271.3	357.753588	-86.453588		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	7/3/2007	28	9680	272.8	357.6329	-84.8329		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	8/2/2007	28	9710	273.7	357.539218	-83.839218		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	9/4/2007	28	9743	273	357.436167	-84.436167		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	10/2/2007	28	9771	272.7	357.356359	-84.656359		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	11/2/2007	28	9802	271.7	357.283915	-85.583915		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	12/4/2007	28	9834	270.6	357.209134	-86.609134		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	1/3/2008	29	9864	268	357.138413	-89.138413		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	2/2/2008	29	9894	271.9	357.049891	-85.149891		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	3/4/2008	29	9925	272.7	356.958705	-84.258705		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	4/2/2008	29	9954	273.3	356.873776	-83.573776		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	5/1/2008	29	9983	273.8	356.792258	-82.992258		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	6/1/2008	29	10014	273.8	356.710218	-82.910218		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	7/1/2008	29	10044	273.2	356.631654	-83.431654		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	8/1/2008	29	10075	271.6	356.560049	-84.960049		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	9/1/2008	29	10106	270.6	356.488443	-85.888443		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	10/1/2008	29	10136	270.6	356.422327	-85.822327		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	11/1/2008	29	10167	271	356.360874	-85.360874		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	12/1/2008	29	10197	271.8	356.301403	-84.501403		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	1/1/2009	30	10228	270.7	356.239949	-85.539949		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	2/1/2009	30	10259	271.2	355.717183	-84.517183		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	3/1/2009	30	10287	271.7	355.287903	-83.587903		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	4/2/2009	30	10319	272.5	354.888092	-82.388092		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	5/2/2009	30	10349	272.5	354.542421	-82.042421		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	6/2/2009	30	10380	273	354.225717	-81.225717		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	7/2/2009	30	10410	273.1	353.924526	-80.824526		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	8/4/2009	30	10443	274.1	353.646164	-79.546164		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	9/2/2009	30	10472	274.4	353.401544	-79.001544		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	10/2/2009	30	10502	275.1	353.16476	-78.06476		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	11/3/2009	30	10534	276.4	352.946982	-76.546982		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	12/3/2009	30	10564	277.4	352.742815	-75.342815		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	1/13/2010	31	10605	277.6	352.514579	-74.914579		185	470

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	2/4/2010	31	10627	278.6	352.466439	-73.866439		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	3/3/2010	31	10654	279.2	352.399786	-73.199786		185	470
3559905	6571548.905	20002157.75	96	115	1449956	524477	7	4/6/2010	31	10688	278.5	352.301876	-73.801876		185	470
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	2/25/2010	31	10648	241	265.925603	-24.925603		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	12/2/2010	31	10928	235.7	263.788309	-28.088309		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	1/7/2011	32	10964	239.1	263.495775	-24.395775		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	4/20/2011	32	11067	240.5	260.730386	-20.230386		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	8/12/2011	32	11181	240.6	258.914862	-18.314862		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	11/8/2011	32	11269	241.1	257.799418	-16.699418		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	3/30/2012	33	11412	243.9	258.24501	-14.34501		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	6/16/2012	33	11490	243.3	258.773474	-15.473474		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	9/14/2012	33	11580	242.5	259.141915	-16.641915		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	12/22/2012	33	11679	243	259.442172	-16.442172		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	3/28/2013	34	11775	242.4	261.564935	-19.164935		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	9/20/2013	34	11951	241.1	264.897986	-23.797986		-6	386
3559906	6575619.333	20013333.96	95	117	1527867	568921	8	12/19/2013	34	12041	243.1	266.269235	-23.169235		-6	386
3560102	6587331.276	20038407.5	92	121	1447607	523386	7	3/21/1981	2	80	381.1	365.160268	15.939732		378	405
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/18/1981	2	322	291.45	272.941223	18.508777	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/23/1982	3	692	291.27	272.369092	18.900908	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/18/1983	4	1052	289.82	273.438107	16.381893	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/5/1985	6	1770	289	272.700254	16.299746	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/13/1986	7	2143	291.25	267.466273	23.783727	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/15/1988	9	2876	290.5	266.558116	23.941884	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	10/15/1989	10	3210	289.72	270.073074	19.646926	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/15/1990	11	3606	288.41	269.911885	18.498115	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/5/1991	12	3961	288.5	269.632829	18.867171	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/13/1992	13	4335	287.6	270.647549	16.952451	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	12/16/1993	14	4733	287.19	268.908346	18.281654	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/9/1994	15	5061	287.28	266.122813	21.157187	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/10/1995	16	5427	286.86	264.776964	22.083036	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/23/1996	17	5806	286.6	259.698976	26.901024	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/12/1997	18	6160	286.6	258.964014	27.635986	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/12/1998	19	6525	285.6	262.046712	23.553288	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/13/1999	20	6891	285.37	268.08328	17.28672	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/30/2000	21	7274	284.4	268.691259	15.708741	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/8/2002	23	7982	284.65	257.763627	26.886373	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/5/2003	24	8344	285.18	256.204519	28.975481	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/4/2004	25	8709	285.7	257.250232	28.449768	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	12/12/2005	26	9112	285.05	264.347835	20.702165	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/8/2006	27	9443	284.69	264.408845	20.281155	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/21/2007	28	9821	281.89	265.951668	15.938332	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/20/2008	29	10186	278.06	265.086031	12.973969	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	12/2/2009	30	10563	283.1	265.477215	17.622785	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/3/2010	31	10899	281.4	263.486699	17.913301	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	10/21/2011	32	11251	281.4	259.534196	21.865804	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	11/8/2012	33	11635	281.7	265.838902	15.861098	183	180	370
3560502	6600865.228	20021834.66	96	122	1528292	569205	8	12/11/2013	34	12033	281.8	263.513129	18.286871	183	180	370
3561303	6656414.378	20033735.29	99	132	1529817	570279	8	5/15/1986	7	1961	237.3	242.091304	-4.791304	43	43	333
3561304	6656999.38	20034069.06	99	132	1529817	570279	8	5/15/1986	7	1961	242	244.050831	-2.050831	53	53	333
3561305	6654339.507	20035657.66	98	132	1592619	619983	9	5/15/1986	7	1961	203.25	219.919032	-16.669032	-8	-8	332

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3561307	6656692.389	20033343.5	99	132	1593003	620315	9	5/15/1986	7	1961	239.8	238.374956	1.425044	7	7	331
3561401	6633153.516	20019279.61	99	127	1529796	570258	8	7/28/1981	2	209	237	267.521957	-30.521957		-29	280
3561401	6633153.516	20019279.61	99	127	1529796	570258	8	6/25/1986	7	2002	231.3	264.549343	-33.249343		-29	280
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	3/20/1981	2	79	260.32	264.999618	-4.679618	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/18/1981	2	322	260.83	265.132208	-4.302208	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/23/1982	3	692	260.54	264.867043	-4.327043	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/18/1983	4	1052	260.54	265.311259	-4.771259	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/2/1984	5	1402	260.66	265.416594	-4.756594	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/11/1986	7	2141	260.25	260.334242	-0.084242	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	2/10/1988	9	2597	261.7	258.35542	3.34458	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/13/1988	9	2874	257.39	261.457854	-4.067854	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	10/15/1989	10	3210	259.99	263.746952	-3.756952	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/16/1990	11	3607	259.56	261.964392	-2.404392	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/7/1991	12	3963	259.27	261.900171	-2.630171	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/13/1992	13	4335	258.48	264.268001	-5.788001	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	12/16/1993	14	4733	258.9	262.812691	-3.912691	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/9/1994	15	5061	258.75	259.685506	-0.935506	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/23/1996	17	5806	257.1	256.002335	1.097665	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/12/1997	18	6160	257.7	255.935814	1.764186	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/12/1998	19	6525	255.6	258.098129	-2.498129	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/13/1999	20	6891	255.76	263.310861	-7.550861	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/30/2000	21	7274	256.6	263.299497	-6.699497	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/7/2001	22	7616	256.1	261.052619	-4.952619	-9	-9	276
3561501	6642525.238	20017620.79	100	128	1530546	570748	8	11/8/2002	23	7982	256.2	256.43897	-0.23897	-9	-9	276
3561502	6637230.489	20020295.1	99	128	1529809	570271	8	1/4/1985	6	1465	233	250.521618	-17.521618	1	0	295
3561802	6637224.408	20006708.36	101	126	1531104	571153	8	5/1/1981	2	121	270	266.987744	3.012256	73	73	330
3561803	6642387.471	20010110.63	101	128	1531121	571170	8	12/11/1985	6	1806	255	259.823707	-4.823707	10	10	270
3561902	6647611.09	20010576.94	102	128	1594139	621337	9	1/1/1981	2	1	240	250.627384	-10.627384	101	96	311
3562101	6665505.712	20040890.22	98	134	1592621	619985	9	6/20/1986	7	1997	269.77	247.387493	22.382507	-39	-39	325
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/18/1981	2	322	214.84	223.074538	-8.234538		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/21/1982	3	690	216.27	222.736364	-6.466364		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/18/1983	4	1052	217.6	223.810435	-6.210435		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/2/1984	5	1402	215.53	224.782958	-9.252958		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/12/1986	7	2142	214.76	217.899462	-3.139462		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	2/9/1988	9	2596	215.3	217.538618	-2.238618		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	10/19/1988	9	2849	212.22	219.919979	-7.699979		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	10/15/1989	10	3210	213.59	220.975579	-7.385579		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/16/1990	11	3607	216.71	219.122708	-2.412708		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/7/1991	12	3963	215.6	218.812054	-3.212054		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	12/17/1992	13	4369	214.2	223.47811	-9.27811		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	12/16/1993	14	4733	213.65	221.169251	-7.519251		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/9/1994	15	5061	213.75	218.39912	-4.64912		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/10/1995	16	5427	214.6	221.066338	-6.466338		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/22/1996	17	5805	213.1	216.381604	-3.281604		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/12/1997	18	6160	218.05	217.831601	0.218399		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/12/1998	19	6525	214.75	218.391689	-3.641689		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/13/1999	20	6891	215.58	222.911741	-7.331741		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/29/2000	21	7273	213.3	221.426472	-8.126472		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/7/2001	22	7616	218.3	219.645704	-1.345704		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/7/2002	23	7981	219	217.352611	1.647389		115	280

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/5/2003	24	8344	215.11	217.226096	-2.116096		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/3/2004	25	8708	215.25	218.483392	-3.233392		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	12/10/2005	26	9110	212.48	220.077712	-8.597712		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/8/2006	27	9443	214.79	221.457867	-5.667867		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/21/2007	28	9821	212.82	221.038145	-8.218145		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/20/2008	29	10186	216.7	220.862607	-4.162607		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	12/4/2009	30	10565	214.4	220.278559	-5.878559		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/3/2010	31	10899	215.8	219.838931	-4.038931		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	10/20/2011	32	11250	213.54	217.810811	-4.270811		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/8/2012	33	11635	213.7	217.145246	-3.445246		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	1/8/2013	34	11696	216.3	218.831871	-2.531871		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	2/8/2013	34	11727	218.2	219.379541	-1.179541		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	3/7/2013	34	11754	219.1	219.778908	-0.678908		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	4/3/2013	34	11781	219.7	220.124499	-0.424499		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	5/4/2013	34	11812	218.5	220.471582	-1.971582		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	6/7/2013	34	11846	217.5	220.794794	-3.294794		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	7/3/2013	34	11872	216	221.031386	-5.031386		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	8/2/2013	34	11902	214.8	221.245518	-6.445518		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	9/5/2013	34	11936	212.8	221.4882	-8.6882		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	10/2/2013	34	11963	212.9	221.661713	-8.761713		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	11/5/2013	34	11997	215.3	221.84341	-6.54341		115	280
3562301	6688243.891	20044999.63	100	138	1530586	570788	8	12/4/2013	34	12026	215.3	221.998387	-6.698387		115	280
3562302	6686628.965	20042989.45	100	138	1530585	570787	8	6/20/1986	7	1997	194.76	208.104713	-13.344713		38	288
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	3/20/1981	2	79	245.68	244.721681	0.958319	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/18/1981	2	322	225.91	244.871995	-18.961995	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/23/1982	3	692	233.76	244.649205	-10.889205	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/18/1983	4	1052	232.6	245.398404	-12.798404	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/2/1984	5	1402	241.1	245.308446	-4.208446	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/5/1985	6	1770	242.8	244.773388	-1.973388	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/12/1986	7	2142	244.52	240.836845	3.683155	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	2/10/1988	9	2597	249.4	239.769589	9.630411	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/13/1988	9	2874	241.4	242.255191	-0.855191	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	10/15/1989	10	3210	249.04	243.831333	5.208667	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/16/1990	11	3607	248.24	241.881063	6.358937	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/7/1991	12	3963	250.25	241.76354	8.48646	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/13/1992	13	4335	245.35	243.769695	1.580305	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	12/16/1993	14	4733	233.65	242.572339	-8.922339	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/9/1994	15	5061	249.87	239.876225	9.993775	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/10/1995	16	5427	239.07	241.687138	-2.617138	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/22/1996	17	5805	247.4	237.831187	9.568813	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/12/1997	18	6160	247.8	238.576853	9.223147	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/12/1998	19	6525	247.1	239.637879	7.462121	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/12/1999	20	6890	241.31	243.312592	-2.002592	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/30/2000	21	7274	247.8	242.149587	5.650413	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/7/2001	22	7616	250.45	240.675068	9.774932	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/8/2002	23	7982	249.15	237.832189	11.317811	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/5/2003	24	8344	250.16	237.271803	12.888197	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/3/2004	25	8708	250.35	237.551846	12.798154	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	12/10/2005	26	9110	250.9	239.890353	11.009647	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/21/2007	28	9821	240.8	239.608728	1.191272	-20	-20	300

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/20/2008	29	10186	232.25	239.08189	-6.83189	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	12/2/2009	30	10563	246.31	238.83684	7.47316	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	11/3/2010	31	10899	234.8	237.804168	-3.004168	-20	-20	300
3562702	6670105.712	20013139.8	103	132	1594467	621636	9	10/21/2011	32	11251	224.8	234.995399	-10.195399	-20	-20	300
3562705	6671877.159	20017185.2	103	133	1594468	621637	9	5/22/1986	7	1968	281.58	260.3059	21.2741	-30	-30	305
3562706	6670480.903	20015896.72	103	133	1594468	621637	9	5/22/1986	7	1968	221	230.855009	-9.855009		73	313
3562707	6670561.58	20016002.32	103	133	1594468	621637	9	5/22/1986	7	1968	220.9	230.744065	-9.844065		73	313
3563302	6733932.188	20042526.19	104	146	1594780	621921	9	8/1/1983	4	943	190	209.081189	-19.081189	10	10	220
3563302	6733932.188	20042526.19	104	146	1594780	621921	9	6/25/1986	7	2002	182.62	205.407416	-22.787416	10	10	220
3563303	6726832.919	20045091.1	103	145	1532367	572209	8	10/29/1984	5	1398	196	209.260779	-13.260779	136	136	216
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/17/1981	2	321	181.68	211.527479	-29.847479		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/18/1983	4	1052	182	211.560464	-29.560464		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/2/1984	5	1402	181.92	212.639085	-30.719085		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/12/1986	7	2142	182.78	209.040408	-26.260408		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	2/9/1988	9	2596	182.48	210.256963	-27.776963		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	10/19/1988	9	2849	181.5	212.214374	-30.714374		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	10/15/1989	10	3210	183.1	212.874957	-29.774957		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/16/1990	11	3607	183.41	211.795769	-28.385769		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/7/1991	12	3963	183.95	211.511945	-27.561945		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	12/17/1992	13	4369	183.88	213.270879	-29.390879		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	12/16/1993	14	4733	183.89	211.166755	-27.276755		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/9/1994	15	5061	184.75	209.972582	-25.222582		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/10/1995	16	5427	184.04	212.034825	-27.994825		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/22/1996	17	5805	182.55	209.50007	-26.95007		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/12/1997	18	6160	184.35	211.217134	-26.867134		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/12/1998	19	6525	182.15	211.459286	-29.309286		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/13/1999	20	6891	183.2	213.32512	-30.12512		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/29/2000	21	7273	183.35	211.982069	-28.632069		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/7/2001	22	7616	183.98	211.155611	-27.175611		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/7/2002	23	7981	183.55	210.388298	-26.838298		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/5/2003	24	8344	183.08	211.051382	-27.971382		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/3/2004	25	8708	184.25	211.049343	-26.799343		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	12/10/2005	26	9110	182.86	211.632442	-28.772442		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/9/2006	27	9444	182.6	210.775691	-28.175691		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/21/2007	28	9821	183.16	210.663989	-27.503989		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/20/2008	29	10186	182.41	210.494876	-28.084876		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	12/2/2009	30	10563	183.47	209.822898	-26.352898		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/3/2010	31	10899	182.6	209.717839	-27.117839		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	10/20/2011	32	11250	177.8	208.788602	-30.988602		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/8/2012	33	11635	179.3	209.477301	-30.177301		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	1/3/2013	34	11691	179.6	209.552932	-29.952932		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	2/8/2013	34	11727	180	209.995563	-29.995563		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	3/6/2013	34	11753	180.2	210.249505	-30.049505		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	4/2/2013	34	11780	180.4	210.462766	-30.062766		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	5/4/2013	34	11812	180.6	210.67599	-30.07599		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	6/7/2013	34	11846	180.8	210.85549	-30.05549		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	7/3/2013	34	11872	180.5	210.985136	-30.485136		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	8/2/2013	34	11902	180.2	211.092299	-30.892299		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	9/4/2013	34	11935	179.7	211.210178	-31.510178		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	10/2/2013	34	11963	179.9	211.297665	-31.397665		-14	220

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	11/5/2013	34	11997	179.9	211.379324	-31.479324		-14	220
3563601	6735433.411	20032059.55	106	145	1595254	622333	9	12/4/2013	34	12026	180	211.448974	-31.448974		-14	220
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	3/20/1981	2	79	291.47	235.84275	55.62725	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/18/1981	2	322	288.65	235.599952	53.050048	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/21/1982	3	690	289.78	235.134851	54.645149	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/18/1983	4	1052	292.11	235.609683	56.500317	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/5/1985	6	1770	292.08	235.71588	56.36412	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/12/1986	7	2142	292.81	231.647883	61.162117	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	2/10/1988	9	2597	293.29	233.342136	59.947864	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	10/19/1988	9	2849	292.12	236.781882	55.338118	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	10/15/1989	10	3210	293.27	238.126319	55.143681	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/16/1990	11	3607	292.78	236.5011	56.2789	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/7/1991	12	3963	295.58	235.76696	59.81304	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	12/17/1992	13	4369	295.05	238.646406	56.403594	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	12/16/1993	14	4733	293.57	235.101687	58.468313	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/9/1994	15	5061	292.17	233.027183	59.142817	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/10/1995	16	5427	292.22	236.355192	55.864808	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/22/1996	17	5805	290	232.220703	57.779297	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/12/1997	18	6160	290.56	235.004109	55.555891	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/12/1998	19	6525	290.15	235.07303	55.07697	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/12/1999	20	6890	292.01	238.089298	53.920702	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/30/2000	21	7274	291.6	236.496162	55.103838	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/7/2001	22	7616	292.11	235.07972	57.03028	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	4/24/2002	23	7784	292.85	234.50452	58.34548	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/5/2003	24	8344	291.12	234.938112	56.181888	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/3/2004	25	8708	291.95	234.829419	57.120581	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	12/10/2005	26	9110	292.12	235.494486	56.625514	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/9/2006	27	9444	291.79	234.107912	57.682088	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/21/2007	28	9821	289.12	233.659497	55.460503	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	12/2/2009	30	10563	289.02	232.034265	56.985735	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/3/2010	31	10899	288.88	231.845863	57.034137	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	10/20/2011	32	11250	286.5	230.084987	56.415013	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	11/8/2012	33	11635	286	230.872936	55.127064	278	278	318
3563701	6705033.98	20018087.91	106	139	1533505	573215	8	12/10/2013	34	12032	285.5	234.672164	50.827836	278	278	318
3563801	6717886.023	20007606.76	109	140	1535033	574602	8	1/19/1983	4	749	230	227.458069	2.541931		170	310
3563801	6717886.023	20007606.76	109	140	1535033	574602	8	6/17/1986	7	1994	228.5	225.865784	2.634216		170	310
3564101	6746981.7	20047683.48	105	148	1533202	572946	8	12/30/1981	2	364	203	215.705031	-12.705031	177	177	228
3564102	6739887.362	20051766.43	103	147	1532400	572242	8	5/23/1986	7	1969	199.91	212.453973	-12.543973	50	50	310
3564201	6754716.453	20041303.06	106	149	1533575	573285	8	3/18/1984	5	1173	280	250.492989	29.507011	220	210	310
3564201	6754716.453	20041303.06	106	149	1533575	573285	8	6/26/1986	7	2003	272.43	245.870896	26.559104	220	210	310
3564401	6746859.965	20032262.58	107	147	1533995	573659	8	9/7/1985	6	1711	203	212.886872	-9.886872	71	71	220
3564502	6756008.227	20033259.69	108	148	1534546	574164	8	12/5/1998	19	6548	266	250.481526	15.518474	153	153	318
3564502	6756008.227	20033259.69	108	148	1534546	574164	8	12/5/1998	19	6548	234	234.481526	-0.481526	153	153	318
3601801	6796228.096	19966276.84	123	149	1541888	580970	8	7/2/1986	7	2009	174.37	186.293405	-11.923405	80	80	180
3609601	6806793.922	19937141.92	129	148	1601086	626787	9	1/1/1981	2	1	190	198.846093	-8.846093	0	0	280
3609601	6806793.922	19937141.92	129	148	1601086	626787	9	7/2/1986	7	2009	194.18	197.72343	-3.54343	0	0	280
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/19/1981	2	323	186.05	192.59094	-6.54094		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/24/1982	3	693	185.45	192.304945	-6.854945		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/12/1983	4	1046	185.84	192.386401	-6.546401		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/8/1984	5	1408	186.23	193.036083	-6.806083		-16	190

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/8/1985	6	1773	186.38	192.926592	-6.546592		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/9/1986	7	2139	186.17	191.174781	-5.004781		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	1/16/1988	9	2572	186.6	191.547329	-4.947329		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	1/12/1989	10	2934	186.1	193.66159	-7.56159		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	10/12/1989	10	3207	185.9	194.202819	-8.302819		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/10/1990	11	3601	185.69	193.844599	-8.154599		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	12/7/1991	12	3993	185.4	193.262951	-7.862951		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/11/1992	13	4333	185.25	194.403999	-9.153999		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/18/1993	14	4705	184.9	192.812234	-7.912234		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/10/1994	15	5062	185.33	191.029487	-5.699487		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/11/1995	16	5428	184.47	192.298329	-7.828329		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/21/1996	17	5804	184.3	191.021113	-6.721113		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/13/1997	18	6161	184.33	192.233906	-7.903906		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/18/1998	19	6531	184.25	192.307797	-8.057797		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/11/1999	20	6889	183.54	193.477368	-9.937368		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	12/1/2000	21	7275	183.6	192.592167	-8.992167		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/6/2002	23	7980	183.95	191.502549	-7.552549		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/6/2003	24	8345	183.8	192.171778	-8.371778		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/5/2004	25	8710	184.25	192.082178	-7.832178		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	12/11/2005	26	9111	183.39	191.87448	-8.48448		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/10/2006	27	9445	183.09	190.959392	-7.869392		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/8/2007	28	9808	182.98	190.740437	-7.760437		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	12/3/2009	30	10564	182.9	189.854792	-6.954792		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/4/2010	31	10900	181.12	189.58676	-8.46676		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	10/19/2011	32	11249	181.55	188.791984	-7.241984		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/7/2012	33	11634	180.95	189.267797	-8.317797		-16	190
3610701	6824456.338	19928179.01	132	150	1545835	584627	8	11/22/2013	34	12014	181.35	190.927932	-9.577932		-16	190
3617201	6803971.303	19916297.39	132	146	1545827	584619	8	1/1/1981	2	1	185	199.853095	-14.853095		108	270
3617201	6803971.303	19916297.39	132	146	1545827	584619	8	7/3/1986	7	2010	196.15	198.894449	-2.744449		108	270
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/19/1981	2	323	253.68	245.682893	7.997107	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/24/1982	3	693	254.96	244.808309	10.151691	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/12/1983	4	1046	253.37	245.263772	8.106228	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/7/1984	5	1407	254.55	248.848043	5.701957	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/8/1985	6	1773	254.28	246.758909	7.521091	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/9/1986	7	2139	253.97	240.540548	13.429452	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	1/15/1988	9	2571	255.3	241.569965	13.730035	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	1/13/1989	10	2935	254.64	249.10306	5.53694	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	10/12/1989	10	3207	253.3	250.404371	2.895629	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/10/1990	11	3601	252.95	248.46776	4.48224	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	12/7/1991	12	3993	256.3	247.044038	9.255962	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/11/1992	13	4333	253.55	250.729267	2.820733	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/18/1993	14	4705	254	246.204917	7.795083	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/10/1994	15	5062	255.72	242.618021	13.101979	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/11/1995	16	5428	253.15	247.718073	5.431927	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/21/1996	17	5804	253.75	242.892944	10.857056	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/13/1997	18	6161	253.2	246.786854	6.413146	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/18/1998	19	6531	254.2	247.153468	7.046532	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/11/1999	20	6889	252.58	250.67886	1.90114	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	12/1/2000	21	7275	254.8	249.189488	5.610512	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/9/2001	22	7618	253.9	247.255829	6.644171	229	229	260

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/6/2002	23	7980	254.1	246.527374	7.572626	229	229	260
3617502	6795760.101	19892825.88	135	142	1471843	533577	7	11/6/2003	24	8345	252.7	248.147457	4.552543	229	229	260
3617601	6812341.97	19892823.16	136	145	1547320	585976	8	1/1/1981	2	1	197	198.132595	-1.132595	146	146	273
3617601	6812341.97	19892823.16	136	145	1547320	585976	8	7/3/1986	7	2010	194.74	197.134384	-2.394384	146	146	273
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/19/1981	2	323	285.36	236.917023	48.442977		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/24/1982	3	693	284.56	236.07906	48.48094		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/12/1983	4	1046	286.86	236.576226	50.283774		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/7/1984	5	1407	286.56	240.10785	46.45215		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	4/26/1986	7	1942	285.22	234.786187	50.433813		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/9/1986	7	2139	286.74	231.828695	54.911305		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	1/15/1988	9	2571	288.2	233.126358	55.073642		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	1/13/1989	10	2935	286.78	240.507832	46.272168		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	10/12/1989	10	3207	288.8	241.780926	47.019074		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/10/1990	11	3601	288.62	239.544548	49.075452		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	12/7/1991	12	3993	290.85	238.219211	52.630789		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/11/1992	13	4333	292.1	242.176892	49.923108		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/18/1993	14	4705	292.9	237.295673	55.604327		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/10/1994	15	5062	291.15	233.93968	57.21032		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/11/1995	16	5428	292.26	239.14752	53.11248		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/21/1996	17	5804	288.1	234.208543	53.891457		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/13/1997	18	6161	288	238.251976	49.748024		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/18/1998	19	6531	288.8	238.448522	50.351478		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/11/1999	20	6889	289.28	242.183381	47.096619		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	12/1/2000	21	7275	287.35	240.348045	47.001955		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/9/2001	22	7618	287.54	238.396715	49.143285		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/6/2002	23	7980	287.75	237.788891	49.961109		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/6/2003	24	8345	287.32	239.396374	47.923626		275	325
3617802	6804600.52	19884385.53	137	143	1472717	534042	7	11/9/2006	27	9444	284.08	237.185392	46.894608		275	325
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	3/24/1982	3	448	206.49	211.183165	-4.693165	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/11/1983	4	1045	202.7	211.327232	-8.627232	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/7/1984	5	1407	205.33	214.084513	-8.754513	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	12/4/1986	7	2164	208	207.292863	0.707137	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	1/15/1988	9	2571	207.85	208.874668	-1.024668	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	1/24/1989	10	2946	208.17	214.581987	-6.411987	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	12/2/1989	10	3258	202.8	215.231409	-12.431409	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	12/6/1990	11	3627	203.1	213.440106	-10.340106	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	1/11/1992	13	4028	207.27	213.035422	-5.765422	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	2/6/1993	14	4420	207.6	215.164321	-7.564321	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	12/10/1993	14	4727	205.2	211.855269	-6.655269	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/17/1994	15	5069	207.56	209.364283	-1.804283	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/16/1995	16	5433	203.72	213.963347	-10.243347	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/27/1996	17	5810	205.33	209.437877	-4.107877	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/6/1997	18	6154	205.76	213.263037	-7.503037	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/19/1998	19	6532	205.58	213.122917	-7.542917	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/11/1999	20	6889	201.89	216.013485	-14.123485	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	12/8/2000	21	7282	207.72	214.556786	-6.836786	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/9/2001	22	7618	205.19	213.003728	-7.813728	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/19/2002	23	7993	206.95	212.663161	-5.713161	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/20/2003	24	8359	207.31	214.019831	-6.709831	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/5/2004	25	8710	208.2	213.496215	-5.296215	195	195	211

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	12/11/2005	26	9111	202.65	213.488368	-10.838368	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/15/2006	27	9450	205.85	211.652112	-5.802112	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/9/2007	28	9809	202.92	210.984412	-8.064412	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/22/2008	29	10188	203.45	210.712721	-7.262721	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	3/10/2010	31	10661	208.89	209.074955	-0.184955	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/10/2010	31	10906	200.96	209.022089	-8.062089	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	10/21/2011	32	11251	199.1	207.577628	-8.477628	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/29/2012	33	11656	201.42	208.584717	-7.164717	195	195	211
3625504	6810124.968	19853046.87	143	141	1475772	535755	7	11/21/2013	34	12013	201.8	212.597147	-10.797147	195	195	211
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	7/3/1986	7	2010	175.4	188.001633	-12.601633		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/9/1986	7	2139	174.61	187.844714	-13.234714		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	1/15/1988	9	2571	174.2	188.869368	-14.669368		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	1/13/1989	10	2935	172.6	185.205532	-12.605532		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	10/12/1989	10	3207	173.38	190.712176	-17.332176		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/10/1990	11	3601	173.37	189.863583	-16.493583		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	12/7/1991	12	3993	173.8	189.609241	-15.809241		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/11/1992	13	4333	173.35	190.957719	-17.607719		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/18/1993	14	4705	172.8	189.153901	-16.353901		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/10/1994	15	5062	170.72	183.190679	-12.470679		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/11/1995	16	5428	172.05	190.294264	-18.244264		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/21/1996	17	5804	171.1	188.505469	-17.405469		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/11/1999	20	6889	169.83	190.980802	-21.150802		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	12/1/2000	21	7275	173.3	190.12732	-16.82732		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/6/2003	24	8345	173.2	190.069245	-16.869245		9	238
3626101	6831224.983	19866993.07	142	146	1475249	535405	7	11/5/2004	25	8710	174.5	189.856853	-15.356853		9	238
3633209	6812127.228	19826078.77	147	139	1551367	589755	8	1/22/2002	23	7692	276	231.250164	44.749836	123	123	558
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	3/24/1982	3	448	189.4	176.778247	12.621753		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/11/1983	4	1045	190.34	176.878176	13.461824		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/7/1984	5	1407	192.56	177.935071	14.624929		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	12/4/1986	7	2164	193.76	175.073013	18.686987		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	1/15/1988	9	2571	193.8	176.095294	17.704706		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	1/24/1989	10	2946	195.25	178.198125	17.051875		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	12/2/1989	10	3258	190.1	178.330021	11.769979		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	12/6/1990	11	3627	192.15	177.532738	14.617262		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	1/11/1992	13	4028	194.28	177.470937	16.809063		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	2/6/1993	14	4420	196.1	178.182645	17.917355		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	12/10/1993	14	4727	195	176.888439	18.111561		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/17/1994	15	5069	196.5	176.058557	20.441443		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/16/1995	16	5433	191.07	177.958611	13.111389		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/27/1996	17	5810	191.34	176.09579	15.24421		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/6/1997	18	6154	191.09	177.632423	13.457577		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/19/1998	19	6532	191.5	177.459975	14.040025		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	12/8/2000	21	7282	191.55	178.097839	13.452161		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	4/25/2002	23	7785	196.1	177.419144	18.680856		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/20/2002	23	7994	193.5	177.411606	16.088394		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/20/2003	24	8359	193.57	177.877983	15.692017		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/5/2004	25	8710	196	177.608193	18.391807		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	12/11/2005	26	9111	193.15	177.621504	15.528496		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/15/2006	27	9450	193.82	176.837143	16.982857		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/9/2007	28	9809	192.49	176.743296	15.746704		183	213

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/22/2008	29	10188	191.88	176.544045	15.335955		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/10/2010	31	10906	190.81	175.985011	14.824989		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/29/2012	33	11656	189.57	175.836511	13.733489		183	213
3634303	6856400.542	19820530.38	152	146	1479802	539286	7	11/21/2013	34	12013	188.33	177.476764	10.853236		183	213
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	9/2/2006	27	9376	259.4	279.780182	-20.380182		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	10/3/2006	27	9407	262.4	280.648945	-18.248945		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	11/2/2006	27	9437	262.8	280.743842	-17.943842		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	12/2/2006	27	9467	261.8	280.418739	-18.618739		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	1/3/2007	28	9499	261.6	280.333322	-18.733322		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	2/2/2007	28	9529	262.4	280.589012	-18.189012		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	3/2/2007	28	9557	263.3	280.871112	-17.571112		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	4/3/2007	28	9589	264	281.089668	-17.089668		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	5/2/2007	28	9618	263.4	280.91749	-17.51749		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	6/2/2007	28	9649	264.2	281.165952	-16.965952		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	7/3/2007	28	9680	264.4	281.234261	-16.834261		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	8/2/2007	28	9710	264.2	281.181126	-16.981126		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	9/4/2007	28	9743	262.2	280.588678	-18.388678		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	10/2/2007	28	9771	262	280.534469	-18.534469		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	11/2/2007	28	9802	263.1	280.869595	-17.769595		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	12/4/2007	28	9834	263.4	280.964887	-17.564887		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	1/3/2008	29	9864	263.4	280.968721	-17.568721		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	2/2/2008	29	9894	264.3	281.209872	-16.909872		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	3/4/2008	29	9925	264.4	281.213665	-16.813665		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	4/2/2008	29	9954	264	281.073847	-17.073847		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	5/1/2008	29	9983	261.3	280.245081	-18.945081		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	6/1/2008	29	10014	263.9	281.006594	-17.106594		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	7/1/2008	29	10044	263	280.718937	-17.718937		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	8/1/2008	29	10075	262.1	280.433391	-18.333391		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	9/1/2008	29	10106	262.4	280.507844	-18.107844		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	10/1/2008	29	10136	262.4	280.493793	-18.093793		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	11/1/2008	29	10167	262.3	280.45142	-18.15142		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	12/1/2008	29	10197	262.5	280.499447	-17.999447		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	1/1/2009	30	10228	262.5	280.487074	-17.987074		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	2/1/2009	30	10259	262.3	280.376872	-18.076872		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	3/1/2009	30	10287	262.4	280.367379	-17.967379		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	4/2/2009	30	10319	263.3	280.604632	-17.304632		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	5/2/2009	30	10349	261.8	280.129183	-18.329183		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	6/2/2009	30	10380	262.6	280.350179	-17.750179		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	7/2/2009	30	10410	262	280.152469	-18.152469		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	8/4/2009	30	10443	261.4	279.959801	-18.559801		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	9/2/2009	30	10472	261.4	279.948668	-18.548668		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	10/2/2009	30	10502	261.6	279.998328	-18.398328		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	11/3/2009	30	10534	262.4	280.229815	-17.829815		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	12/3/2009	30	10564	263.6	280.581833	-16.981833		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	1/13/2010	31	10605	260.4	279.608109	-19.208109		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	2/4/2010	31	10627	261.1	279.806624	-18.706624		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	3/3/2010	31	10654	261	279.763198	-18.763198		-51	359
3701104	6473874.011	19991805.72	89	98	1445861	522486	7	4/6/2010	31	10688	260.7	279.657526	-18.957526		-51	359
3701204	6493189.468	19979610.96	93	100	1354291	480659	6	2/22/2012	33	11375	387.2	288.18064	99.01936		308	538
3701204	6493189.468	19979610.96	93	100	1354291	480659	6	6/26/2012	33	11500	386.9	288.60059	98.29941		308	538

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701204	6493189.468	19979610.96	93	100	1354291	480659	6	9/14/2012	33	11580	386.8	288.752531	98.047469		308	538
3701204	6493189.468	19979610.96	93	100	1354291	480659	6	3/27/2013	34	11774	387.3	290.215951	97.084049		308	538
3701204	6493189.468	19979610.96	93	100	1354291	480659	6	6/25/2013	34	11864	386.4	291.016217	95.383783		308	538
3701204	6493189.468	19979610.96	93	100	1354291	480659	6	9/24/2013	34	11955	386.3	291.567446	94.732554		308	538
3701204	6493189.468	19979610.96	93	100	1354291	480659	6	12/20/2013	34	12042	386.3	291.976878	94.323122		308	538
3701405	6471184.165	19971410.24	92	96	1353513	480488	6	7/4/1985	6	1646	242	259.301814	-17.301814	-138	-148	312
3701405	6471184.165	19971410.24	92	96	1353513	480488	6	3/16/1988	9	2632	240.87	258.624647	-17.754647	-138	-148	312
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/1/1981	2	1	338.017143	273.885203	64.13194		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1981	2	6	337.62	273.868489	63.751511		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1981	2	11	337.59	273.851776	63.738224		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1981	2	16	337.65	273.835062	63.814938		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1981	2	21	337.76	273.818348	63.941652		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1981	2	26	337.72	273.801635	63.918365		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1981	2	31	337.64	273.784921	63.855079		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/4/1981	2	35	339.59	273.771551	65.818449		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1981	2	37	337.66	273.764865	63.895135		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1981	2	42	337.93	273.748152	64.181848		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1981	2	47	337.72	273.731438	63.988562		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1981	2	52	337.75	273.718236	64.031764		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1981	2	57	337.7	273.711185	63.988815		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1981	2	60	337.7	273.706955	63.993045		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1981	2	65	337.88	273.699904	64.180096		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1981	2	70	337.7	273.692853	64.007147		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1981	2	75	337.78	273.685803	64.094197		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/20/1981	2	79	339.65	273.680162	65.969838		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1981	2	80	337.81	273.678752	64.131248		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1981	2	85	337.87	273.671701	64.198299		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1981	2	90	337.82	273.664651	64.155349		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1981	2	96	337.69	273.65619	64.03381		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1981	2	101	337.69	273.649139	64.040861		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1981	2	106	337.61	273.642088	63.967912		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1981	2	111	337.67	273.63602	64.03398		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1981	2	116	337.75	273.631702	64.118298		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1981	2	121	337.77	273.627385	64.142615		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1981	2	126	337.84	273.623067	64.216933		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1981	2	131	337.95	273.618749	64.331251		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/14/1981	2	134	339.89	273.616159	66.273841		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1981	2	136	337.92	273.614432	64.305568		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1981	2	141	337.87	273.610114	64.259886		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1981	2	146	337.88	273.605796	64.274204		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1981	2	151	337.88	273.601478	64.278522		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1981	2	157	338.05	273.596297	64.453703		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1981	2	162	338	273.59198	64.40802		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1981	2	167	337.91	273.587662	64.322338		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1981	2	172	337.87	273.583344	64.286656		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1981	2	177	337.79	273.579026	64.210974		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1981	2	182	337.73	273.575274	64.154726		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1981	2	187	337.74	273.572388	64.167612		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1981	2	192	337.73	273.569503	64.160497		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1981	2	197	337.7	273.566617	64.133383		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1981	2	202	337.63	273.563731	64.066269		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1981	2	207	337.56	273.560845	63.999155		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1981	2	212	337.52	273.55796	63.96204		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1981	2	218	337.46	273.554497	63.905503		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1981	2	223	337.43	273.551611	63.878389		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1981	2	228	337.46	273.548725	63.911275		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1981	2	233	337.48	273.545839	63.934161		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1981	2	238	337.45	273.542954	63.907046		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1981	2	243	337.54	273.540068	63.999932		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1981	2	249	337.58	273.536605	64.043395		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1981	2	254	337.55	273.533719	64.016281		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1981	2	259	337.58	273.530833	64.049167		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1981	2	264	337.53	273.527948	64.002052		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1981	2	269	337.46	273.525753	63.934247		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1981	2	274	337.43	273.523733	63.906267		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1981	2	279	337.4	273.521714	63.878286		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1981	2	284	337.64	273.519695	64.120305		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1981	2	289	337.6	273.517675	64.082325		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1981	2	294	337.54	273.515656	64.024344		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1981	2	299	337.64	273.513637	64.126363		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1981	2	304	337.57	273.511617	64.058383		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1981	2	310	337.63	273.509194	64.120806		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1981	2	315	337.71	273.507175	64.202825		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1981	2	320	337.64	273.505156	64.134844		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/20/1981	2	324	337.62	273.50354	64.11646		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1981	2	325	337.58	273.503136	64.076864		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1981	2	330	337.72	273.501117	64.218883		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1981	2	335	337.77	273.499098	64.270902		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1981	2	340	337.58	273.497078	64.082922		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1981	2	345	337.6	273.495059	64.104941		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1981	2	350	337.72	273.49304	64.22696		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1981	2	355	337.58	273.491021	64.088979		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1981	2	360	337.56	273.489001	64.070999		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1981	2	365	337.54	273.486982	64.053018		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1982	3	371	337.57	273.480053	64.089947		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1982	3	376	337.58	273.472402	64.107598		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1982	3	381	337.63	273.464751	64.165249		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1982	3	386	337.64	273.4571	64.1829		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1982	3	391	337.65	273.449449	64.200551		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1982	3	396	337.68	273.441798	64.238202		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1982	3	402	337.63	273.432616	64.197384		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1982	3	407	337.78	273.424965	64.355035		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1982	3	412	337.69	273.417314	64.272686		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1982	3	417	337.65	273.410424	64.239576		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1982	3	422	337.68	273.406777	64.273223		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1982	3	425	337.67	273.404588	64.265412		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1982	3	430	337.8	273.40094	64.39906		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1982	3	435	337.7	273.397292	64.302708		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1982	3	440	337.75	273.393644	64.356356		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/19/1982	3	443	337.69	273.391455	64.298545		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1982	3	527	337.88	273.340359	64.539641		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1982	3	532	337.93	273.337689	64.592311		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1982	3	537	337.93	273.335019	64.594981		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1982	3	542	337.9	273.332349	64.567651		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1982	3	547	338.03	273.329813	64.700187		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1982	3	552	337.98	273.327599	64.652401		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1982	3	557	337.91	273.325386	64.584614		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1982	3	562	337.85	273.323172	64.526828		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1982	3	567	337.8	273.320959	64.479041		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1982	3	572	337.73	273.318746	64.411254		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1982	3	577	337.75	273.316532	64.433468		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1982	3	583	337.7	273.313876	64.386124		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1982	3	588	337.65	273.311663	64.338337		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/3/1982	3	611	337.58	273.301481	64.278519		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/20/1982	3	689	337.68	273.270929	64.409071		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1982	3	690	337.67	273.270554	64.399446		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1982	3	695	337.57	273.268679	64.301321		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1982	3	700	337.84	273.266805	64.573195		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1982	3	705	337.89	273.26493	64.62507		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1982	3	710	337.85	273.263055	64.586945		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1982	3	715	337.83	273.26118	64.56882		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1982	3	720	337.76	273.259306	64.500694		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1982	3	725	337.9	273.257431	64.642569		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1982	3	730	337.92	273.255556	64.664444		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1983	4	736	337.88	273.25576	64.62424		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1983	4	741	337.92	273.256953	64.663047		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1983	4	746	337.83	273.258145	64.571855		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1983	4	751	337.95	273.259337	64.690663		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1983	4	756	337.93	273.26053	64.66947		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1983	4	761	337.95	273.261722	64.688278		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/2/1983	4	822	338.44	273.282006	65.157994		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1983	4	826	338.36	273.28352	65.07648		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1983	4	831	338.28	273.285413	64.994587		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1983	4	836	338.26	273.287306	64.972694		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1983	4	841	338.31	273.28902	65.02098		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1983	4	846	338.28	273.290093	64.989907		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1983	4	851	338.27	273.291167	64.978833		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1983	4	856	338.22	273.292241	64.927759		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1983	4	861	338.19	273.293315	64.896685		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1983	4	866	338.29	273.294388	64.995612		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1983	4	871	338.41	273.295462	65.114538		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1983	4	876	338.42	273.296536	65.123464		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1983	4	881	338.4	273.29761	65.10239		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1983	4	887	338.37	273.298898	65.071102		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1983	4	892	338.39	273.299972	65.090028		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1983	4	897	338.35	273.301046	65.048954		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1983	4	902	338.32	273.302119	65.017881		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1983	4	907	338.3	273.303193	64.996807		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1983	4	912	338.29	273.304145	64.985855		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1983	4	917	338.21	273.304801	64.905199		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1983	4	922	338.17	273.305456	64.864544		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1983	4	927	338.14	273.306112	64.833888		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1983	4	932	338.12	273.306768	64.813232		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1983	4	937	338.1	273.307424	64.792576		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1983	4	942	338.05	273.30808	64.74192		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1983	4	948	338.08	273.308867	64.771133		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1983	4	953	338.12	273.309523	64.810477		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1983	4	958	338.02	273.310179	64.709821		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1983	4	994	330.4	273.314902	57.085098		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/24/1983	4	997	330.35	273.315222	57.034778		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/19/1983	4	1053	331.18	273.320146	57.859854		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1983	4	1055	331.26	273.320322	57.939678		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1983	4	1060	331.33	273.320762	58.009238		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1983	4	1065	331.4	273.321202	58.078798		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1983	4	1070	331.67	273.321641	58.348359		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/10/1983	4	1074	331.59	273.321993	58.268007		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1983	4	1075	331.79	273.322081	58.467919		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1983	4	1080	331.73	273.322521	58.407479		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1983	4	1085	331.68	273.32296	58.35704		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1983	4	1090	331.38	273.3234	58.0566		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1983	4	1095	331.25	273.32384	57.92616		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1984	5	1101	331.32	273.349295	57.970705		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1984	5	1106	331.35	273.380893	57.969107		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1984	5	1111	331.22	273.412492	57.807508		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1984	5	1116	331.02	273.444091	57.575909		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1984	5	1121	331.1	273.475689	57.624311		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1984	5	1126	331.05	273.507288	57.542712		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1984	5	1132	330.95	273.545206	57.404794		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1984	5	1137	331.02	273.576805	57.443195		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1984	5	1142	331.2	273.608404	57.591596		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1984	5	1147	331.15	273.637613	57.512387		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1984	5	1152	331.22	273.656653	57.563347		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/29/1984	5	1155	331.17	273.668078	57.501922		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1984	5	1161	331.38	273.690926	57.689074		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1984	5	1166	331.37	273.709966	57.660034		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1984	5	1171	331.46	273.729007	57.730993		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/20/1984	5	1175	331.44	273.744239	57.695761		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1984	5	1176	331.47	273.748047	57.721953		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1984	5	1181	331.53	273.767088	57.762912		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1984	5	1186	331.47	273.786128	57.683872		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1984	5	1192	331.41	273.808976	57.601024		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1984	5	1197	331.5	273.828017	57.671983		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1984	5	1202	331.1	273.847057	57.252943		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1984	5	1207	331.45	273.862958	57.587042		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1984	5	1212	331.36	273.8745	57.4855		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1984	5	1217	331.27	273.886042	57.383958		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1984	5	1222	331.4	273.897584	57.502416		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1984	5	1227	331.32	273.909126	57.410874		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1984	5	1232	331.25	273.920668	57.329332		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1984	5	1237	331.35	273.932209	57.417791		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1984	5	1242	331.36	273.943751	57.416249		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1984	5	1247	331.24	273.955293	57.284707		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1984	5	1253	331.28	273.969143	57.310857		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1984	5	1258	331.26	273.980685	57.279315		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1984	5	1263	331.2	273.992227	57.207773		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1984	5	1268	331.13	274.003769	57.126231		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1984	5	1273	331.03	274.015311	57.014689		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1984	5	1308	330.8	274.069009	56.730991		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1984	5	1314	330.77	274.077852	56.692148		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1984	5	1319	330.78	274.08522	56.69478		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1984	5	1324	330.83	274.092589	56.737411		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1984	5	1329	330.85	274.099958	56.750042		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1984	5	1334	330.78	274.107326	56.672674		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1984	5	1339	330.73	274.114695	56.615305		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1984	5	1345	330.75	274.123538	56.626462		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1984	5	1350	330.78	274.130906	56.649094		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1984	5	1355	330.71	274.138275	56.571725		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1984	5	1360	330.77	274.145644	56.624356		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1984	5	1365	330.85	274.150454	56.699546		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1984	5	1370	330.77	274.155104	56.614896		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1984	5	1375	330.8	274.159755	56.640245		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1984	5	1380	330.98	274.164406	56.815594		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1984	5	1385	331.18	274.169057	57.010943		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1984	5	1390	331.33	274.173707	57.156293		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1984	5	1395	331.46	274.178358	57.281642		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1984	5	1400	331.47	274.183009	57.286991		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/3/1984	5	1403	331.56	274.185799	57.374201		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1984	5	1406	331.57	274.18859	57.38141		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1984	5	1411	331.58	274.193241	57.386759		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1984	5	1416	331.49	274.197891	57.292109		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1984	5	1421	331.44	274.202542	57.237458		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1984	5	1426	331.58	274.207193	57.372807		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1984	5	1431	331.68	274.211844	57.468156		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1984	5	1436	331.68	274.216495	57.463505		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1984	5	1441	331.65	274.221145	57.428855		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1984	5	1446	331.73	274.225796	57.504204		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1984	5	1451	331.76	274.230447	57.529553		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1984	5	1456	331.6	274.235098	57.364902		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1984	5	1461	331.69	274.239748	57.450252		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1985	6	1467	331.72	274.217805	57.502195		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1985	6	1472	331.73	274.194931	57.535069		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1985	6	1477	331.7	274.172058	57.527942		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1985	6	1482	331.71	274.149184	57.560816		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1985	6	1487	331.75	274.12631	57.62369		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1985	6	1492	331.86	274.103437	57.756563		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1985	6	1498	331.85	274.075988	57.774012		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1985	6	1503	331.9	274.053115	57.846885		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1985	6	1508	331.84	274.030241	57.809759		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1985	6	1513	331.87	274.010227	57.859773		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1985	6	1518	331.92	273.995224	57.924776		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1985	6	1521	331.99	273.986221	58.003779		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1985	6	1526	331.92	273.971218	57.948782		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1985	6	1531	331.98	273.956214	58.023786		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/12/1985	6	1532	331.98	273.953213	58.026787		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1985	6	1536	331.98	273.94121	58.03879		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1985	6	1541	332.2	273.926206	58.273794		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1985	6	1546	332.11	273.911203	58.198797		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1985	6	1551	332.27	273.896199	58.373801		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1985	6	1557	332.26	273.878194	58.381806		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1985	6	1562	332.08	273.863191	58.216809		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1985	6	1567	332.15	273.848187	58.301813		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1985	6	1572	332.08	273.835149	58.244851		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1985	6	1577	332.2	273.825614	58.374386		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1985	6	1582	332.29	273.816078	58.473922		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1985	6	1587	332.24	273.806543	58.433457		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1985	6	1592	332.2	273.797007	58.402993		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1985	6	1597	332.22	273.787472	58.432528		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1985	6	1602	332.24	273.777937	58.462063		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1985	6	1607	332.25	273.768401	58.481599		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1985	6	1612	332.27	273.758866	58.511134		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1985	6	1618	332.17	273.747423	58.422577		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1985	6	1623	332.02	273.737888	58.282112		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1985	6	1628	331.76	273.728353	58.031647		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1985	6	1633	332.08	273.718817	58.361183		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1985	6	1638	332	273.709282	58.290718		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1985	6	1643	331.89	273.700958	58.189042		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1985	6	1648	331.87	273.69449	58.17551		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1985	6	1653	331.75	273.688023	58.061977		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1985	6	1658	331.76	273.681556	58.078444		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1985	6	1663	331.72	273.675088	58.044912		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1985	6	1668	331.8	273.668621	58.131379		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1985	6	1673	331.71	273.662154	58.047846		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1985	6	1679	331.68	273.654393	58.025607		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1985	6	1684	331.67	273.647925	58.022075		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1985	6	1689	331.72	273.641458	58.078542		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1985	6	1694	331.62	273.634991	57.985009		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1985	6	1699	331.57	273.628523	57.941477		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1985	6	1704	331.55	273.622056	57.927944		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1985	6	1710	331.52	273.614295	57.905705		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1985	6	1715	331.5	273.607828	57.892172		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1985	6	1720	331.42	273.601361	57.818639		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1985	6	1725	331.44	273.594893	57.845107		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1985	6	1730	331.45	273.589963	57.860037		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1985	6	1735	331.49	273.585423	57.904577		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1985	6	1740	331.46	273.580884	57.879116		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1985	6	1745	331.48	273.576344	57.903656		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1985	6	1750	331.43	273.571805	57.858195		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1985	6	1755	331.67	273.567265	58.102735		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1985	6	1760	331.85	273.562726	58.287274		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1985	6	1765	331.98	273.558186	58.421814		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1985	6	1771	331.8	273.552739	58.247261		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1985	6	1776	331.95	273.548199	58.401801		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1985	6	1781	331.79	273.54366	58.24634		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1985	6	1786	331.42	273.53912	57.88088		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/14/1986	7	1840	331.75	273.368367	58.381633		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1986	7	1842	331.8	273.346263	58.453737		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1986	7	1847	332.02	273.291005	58.728995		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1986	7	1852	331.94	273.235746	58.704254		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1986	7	1857	331.94	273.180487	58.759513		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1986	7	1863	332.13	273.114176	59.015824		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1986	7	1868	332.05	273.058918	58.991082		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1986	7	1873	332.06	273.003659	59.056341		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1986	7	1878	332.1	272.952487	59.147513		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1986	7	1883	332.07	272.918704	59.151296		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1986	7	1886	332.03	272.898435	59.131565		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1986	7	1891	332.02	272.864653	59.155347		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1986	7	1896	332.05	272.83087	59.21913		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1986	7	1901	332.03	272.797088	59.232912		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1986	7	1906	331.95	272.763306	59.186694		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1986	7	1911	331.97	272.729524	59.240476		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1986	7	1916	331.99	272.695741	59.294259		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1986	7	1922	332	272.655203	59.344797		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1986	7	1927	332.05	272.62142	59.42858		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1986	7	1932	332.01	272.587638	59.422362		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1986	7	1937	332.22	272.55614	59.66386		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/23/1986	7	1939	332.16	272.546805	59.613195		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1986	7	1942	332.2	272.532804	59.667196		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1986	7	1947	332.23	272.509468	59.720532		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1986	7	1952	332.28	272.486132	59.793868		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1986	7	1957	332.38	272.462796	59.917204		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1986	7	1962	332.37	272.43946	59.93054		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1986	7	1967	332.35	272.416124	59.933876		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1986	7	1972	332.42	272.392788	60.027212		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1986	7	1977	332.43	272.369453	60.060547		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1986	7	1983	332.5	272.341449	60.158551		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1986	7	1988	332.57	272.318114	60.251886		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1986	7	1993	332.48	272.294778	60.185222		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1986	7	1998	332.45	272.271442	60.178558		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1986	7	2003	332.34	272.248106	60.091894		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1986	7	2008	332.28	272.226506	60.053494		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/4/1986	7	2011	332.17	272.216065	59.953935		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1986	7	2013	332.28	272.209104	60.070896		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1986	7	2018	332.2	272.191701	60.008299		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1986	7	2023	332.11	272.174299	59.935701		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1986	7	2028	332.07	272.156897	59.913103		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1986	7	2033	331.98	272.139494	59.840506		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1986	7	2038	331.96	272.122092	59.837908		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1986	7	2044	332	272.101209	59.898791		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1986	7	2049	331.94	272.083806	59.856194		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1986	7	2054	332.02	272.066404	59.953596		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1986	7	2059	331.92	272.049002	59.870998		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1986	7	2064	331.85	272.031599	59.818401		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1986	7	2069	331.79	272.014197	59.775803		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1986	7	2075	331.8	271.993314	59.806686		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1986	7	2080	331.78	271.975911	59.804089		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1986	7	2085	331.71	271.958509	59.751491		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1986	7	2090	331.68	271.941106	59.738894		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1986	7	2095	331.73	271.92618	59.80382		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1986	7	2100	331.78	271.912117	59.867883		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1986	7	2105	331.73	271.898055	59.831945		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1986	7	2110	331.75	271.883992	59.866008		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1986	7	2115	331.8	271.869929	59.930071		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1986	7	2120	331.69	271.855866	59.834134		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1986	7	2125	331.9	271.841804	60.058196		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1986	7	2130	331.87	271.827741	60.042259		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1986	7	2136	331.98	271.810865	60.169135		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/7/1986	7	2137	331.93	271.808053	60.121947		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1987	8	2228	332.1	271.87866	60.22134		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1987	8	2233	332.1	271.911247	60.188753		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1987	8	2238	332.36	271.943835	60.416165		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1987	8	2243	332.26	271.971817	60.288183		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1987	8	2248	332.33	271.980205	60.349795		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1987	8	2251	332.54	271.985237	60.554763		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1987	8	2256	332.3	271.993625	60.306375		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1987	8	2261	332.28	272.002012	60.277988		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1987	8	2266	332.3	272.0104	60.2896		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1987	8	2271	332.34	272.018788	60.321212		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1987	8	2276	332.32	272.027175	60.292825		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1987	8	2281	332.25	272.035563	60.214437		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1987	8	2287	332.18	272.045628	60.134372		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1987	8	2292	332.25	272.054015	60.195985		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1987	8	2297	332.25	272.062403	60.187597		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1987	8	2302	332.16	272.069581	60.090419		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1987	8	2307	332.05	272.072436	59.977564		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1987	8	2312	332.04	272.075291	59.964709		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1987	8	2317	331.99	272.078146	59.911854		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1987	8	2322	332.03	272.081001	59.948999		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1987	8	2327	332.02	272.083856	59.936144		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1987	8	2332	332.1	272.08671	60.01329		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1987	8	2337	332.16	272.089565	60.070435		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1987	8	2342	332.11	272.09242	60.01758		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1987	8	2348	332	272.095846	59.904154		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1987	8	2353	332.18	272.098701	60.081299		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1987	8	2358	332.3	272.101556	60.198444		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1987	8	2363	332.29	272.104411	60.185589		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1987	8	2368	332.31	272.107266	60.202734		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1987	8	2373	332.25	272.109547	60.140453		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1987	8	2378	332.28	272.110443	60.169557		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1987	8	2383	332.19	272.111339	60.078661		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1987	8	2388	332	272.112234	59.887766		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1987	8	2393	331.94	272.11313	59.82687		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1987	8	2398	331.88	272.114025	59.765975		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1987	8	2403	331.8	272.114921	59.685079		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1987	8	2409	331.77	272.115996	59.654004		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1987	8	2414	331.74	272.116892	59.623108		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1987	8	2419	331.72	272.117787	59.602213		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1987	8	2424	331.6	272.118683	59.481317		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1987	8	2429	331.58	272.119578	59.460422		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1987	8	2434	331.54	272.120474	59.419526		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1987	8	2440	331.59	272.121549	59.468451		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1987	8	2445	331.6	272.122445	59.477555		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1987	8	2450	331.65	272.12334	59.52666		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1987	8	2455	331.67	272.124236	59.545764		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1987	8	2460	331.63	272.124547	59.505453		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1987	8	2465	331.64	272.124655	59.515345		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1987	8	2470	331.7	272.124763	59.575237		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1987	8	2475	331.6	272.124871	59.475129		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1987	8	2480	331.62	272.124979	59.495021		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1987	8	2485	331.6	272.125087	59.474913		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1987	8	2490	331.58	272.125194	59.454806		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1987	8	2495	331.61	272.125302	59.484698		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1987	8	2501	331.57	272.125432	59.444568		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1987	8	2506	331.64	272.12554	59.51446		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/13/1987	8	2508	331.49	272.125583	59.364417		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1987	8	2511	331.73	272.125648	59.604352		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1987	8	2516	331.66	272.125755	59.534245		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1987	8	2521	331.89	272.125863	59.764137		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1987	8	2526	331.92	272.125971	59.794029		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1987	8	2531	331.9	272.126079	59.773921		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1987	8	2536	332	272.126187	59.873813		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1987	8	2541	331.93	272.126295	59.803705		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1987	8	2556	332.06	272.126618	59.933382		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1988	9	2562	331.97	272.185278	59.784722		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1988	9	2567	332.04	272.258549	59.781451		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1988	9	2572	332.06	272.331819	59.728181		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1988	9	2577	332.07	272.40509	59.66491		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1988	9	2582	332.04	272.478361	59.561639		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1988	9	2587	332.11	272.551631	59.558369		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1988	9	2593	332	272.639556	59.360444		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1988	9	2598	332.08	272.712827	59.367173		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1988	9	2603	332.12	272.786098	59.333902		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1988	9	2608	332.29	272.852386	59.437614		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1988	9	2613	332.2	272.888965	59.311035		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1988	9	2617	332.28	272.918227	59.361773		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1988	9	2622	332.35	272.954805	59.395195		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1988	9	2627	332.46	272.991384	59.468616		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1988	9	2632	332.4	273.027962	59.372038		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1988	9	2637	332.45	273.06454	59.38546		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1988	9	2642	332.49	273.101118	59.388882		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1988	9	2647	332.53	273.137697	59.392303		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1988	9	2653	332.54	273.181591	59.358409		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1988	9	2658	332.48	273.218169	59.261831		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1988	9	2663	332.47	273.254747	59.215253		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1988	9	2668	332.5	273.285113	59.214887		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1988	9	2673	332.47	273.30685	59.16315		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1988	9	2678	332.45	273.328588	59.121412		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1988	9	2683	332.35	273.350325	58.999675		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1988	9	2688	332.36	273.372062	58.987938		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1988	9	2693	332.37	273.3938	58.9762		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1988	9	2698	332.35	273.415537	58.934463		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1988	9	2703	332.29	273.437275	58.852725		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1988	9	2708	332.3	273.459012	58.840988		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1988	9	2714	332.23	273.485097	58.744903		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1988	9	2719	332.15	273.506834	58.643166		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1988	9	2724	332.04	273.528571	58.511429		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1988	9	2729	331.98	273.550309	58.429691		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1988	9	2734	331.94	273.572046	58.367954		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1988	9	2739	331.91	273.590082	58.319918		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1988	9	2744	331.82	273.604306	58.215694		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1988	9	2749	331.83	273.61853	58.21147		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1988	9	2754	331.8	273.632754	58.167246		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1988	9	2759	331.74	273.646978	58.093022		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1988	9	2764	331.65	273.661202	57.988798		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1988	9	2769	331.62	273.675426	57.944574		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1988	9	2775	331.66	273.692495	57.967505		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1988	9	2780	331.59	273.706719	57.883281		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1988	9	2785	331.75	273.720943	58.029057		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1988	9	2790	331.67	273.735167	57.934833		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1988	9	2795	331.67	273.749391	57.920609		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1988	9	2800	331.59	273.763615	57.826385		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1988	9	2806	331.63	273.780683	57.849317		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1988	9	2811	331.61	273.794907	57.815093		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1988	9	2816	331.57	273.809131	57.760869		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1988	9	2821	331.56	273.823355	57.736645		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1988	9	2826	331.47	273.833039	57.636961		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1988	9	2831	331.45	273.84244	57.60756		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1988	9	2836	331.4	273.851841	57.548159		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1988	9	2841	331.43	273.861242	57.568758		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1988	9	2846	331.41	273.870643	57.539357		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1988	9	2851	331.45	273.880044	57.569956		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1988	9	2856	331.41	273.889445	57.520555		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1988	9	2861	331.53	273.898846	57.631154		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1988	9	2867	331.61	273.910127	57.699873		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1988	9	2872	331.57	273.919528	57.650472		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/12/1988	9	2873	331.52	273.921408	57.598592		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1988	9	2877	331.66	273.928929	57.731071		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1988	9	2882	331.63	273.93833	57.69167		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1988	9	2887	331.76	273.947731	57.812269		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1988	9	2892	331.7	273.957132	57.742868		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1988	9	2897	331.6	273.966533	57.633467		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1988	9	2902	331.76	273.975934	57.784066		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1988	9	2907	331.74	273.985335	57.754665		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1988	9	2912	331.66	273.994736	57.665264		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1988	9	2917	331.61	274.004137	57.605863		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1988	9	2922	331.75	274.013538	57.736462		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1989	10	2928	331.76	274.013746	57.746254		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1989	10	2933	331.69	274.012075	57.677925		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1989	10	2938	331.8	274.010403	57.789597		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1989	10	2943	331.77	274.008732	57.761268		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1989	10	2948	331.83	274.00706	57.82294		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1989	10	2953	332.05	274.005388	58.044612		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1989	10	2959	332.04	274.003383	58.036617		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1989	10	2964	331.99	274.001711	57.988289		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1989	10	2969	332.11	274.000039	58.109961		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1989	10	2974	332.32	274.001842	58.318158		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1989	10	2979	332.21	274.00973	58.20027		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1989	10	2982	332.27	274.014462	58.255538		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1989	10	2987	332.29	274.02235	58.26765		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1989	10	3002	332.41	274.046012	58.363988		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1989	10	3007	332.36	274.0539	58.3061		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1989	10	3012	332.91	274.061788	58.848212		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1989	10	3018	332.64	274.071253	58.568747		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1989	10	3023	332.6	274.07914	58.52086		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1989	10	3028	332.69	274.087028	58.602972		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1989	10	3033	332.69	274.094723	58.595277		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1989	10	3038	332.65	274.102076	58.547924		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1989	10	3043	332.65	274.109428	58.540572		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1989	10	3048	332.84	274.116781	58.723219		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1989	10	3053	332.68	274.124134	58.555866		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1989	10	3058	332.77	274.131486	58.638514		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1989	10	3063	332.99	274.138839	58.851161		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1989	10	3068	332.96	274.146191	58.813809		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1989	10	3073	332.85	274.153544	58.696456		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1989	10	3079	333.03	274.162367	58.867633		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1989	10	3084	332.96	274.16972	58.79028		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1989	10	3089	333.14	274.177072	58.962928		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1989	10	3094	333.07	274.184425	58.885575		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1989	10	3099	333	274.191778	58.808222		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/27/1989	10	3100	333.06	274.193248	58.866752		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1989	10	3104	333.17	274.198563	58.971437		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1989	10	3109	333.16	274.204477	58.955523		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1989	10	3114	333.16	274.210392	58.949608		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1989	10	3119	333.13	274.216307	58.913693		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1989	10	3124	333.06	274.222222	58.837778		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/12/1989	10	3177	333.05	274.28492	58.76508		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1989	10	3181	333.09	274.289652	58.800348		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1989	10	3186	333.06	274.295566	58.764434		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1989	10	3191	333.01	274.300381	58.709619		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1989	10	3196	332.03	274.304916	57.725084		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1989	10	3201	332.98	274.309451	58.670549		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1989	10	3206	332.97	274.313986	58.656014		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/14/1989	10	3209	332.9	274.316707	58.583293		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1989	10	3211	332.97	274.318521	58.651479		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1989	10	3216	332.84	274.323055	58.516945		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1989	10	3221	332.79	274.32759	58.46241		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1989	10	3226	332.87	274.332125	58.537875		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1989	10	3232	332.87	274.337567	58.532433		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1989	10	3237	332.84	274.342102	58.497898		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1989	10	3242	332.92	274.346636	58.573364		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1989	10	3247	332.84	274.351171	58.488829		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1989	10	3252	332.98	274.355706	58.624294		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1989	10	3257	332.84	274.360241	58.479759		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1989	10	3262	332.96	274.364776	58.595224		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1989	10	3267	332.99	274.369311	58.620689		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/14/1989	10	3270	332.84	274.372032	58.467968		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1989	10	3277	332.83	274.37838	58.45162		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1989	10	3282	332.83	274.382915	58.447085		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1989	10	3287	332.94	274.38745	58.55255		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1990	11	3293	332.95	274.339402	58.610598		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1990	11	3298	332.96	274.277075	58.682925		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1990	11	3303	332.96	274.214747	58.745253		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1990	11	3308	333.26	274.15242	59.10758		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1990	11	3313	333.22	274.090093	59.129907		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1990	11	3318	333.32	274.027765	59.292235		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1990	11	3324	333.33	273.952972	59.377028		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1990	11	3329	333.41	273.890645	59.519355		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1990	11	3334	333.44	273.828318	59.611682		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1990	11	3339	333.3	273.775261	59.524739		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1990	11	3344	333.27	273.761656	59.508344		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1990	11	3347	333.33	273.753492	59.576508		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/2/1990	11	3348	333.32	273.750771	59.569229		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1990	11	3352	333.36	273.739887	59.620113		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1990	11	3357	333.39	273.726281	59.663719		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1990	11	3362	333.49	273.712676	59.777324		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1990	11	3367	333.33	273.69907	59.63093		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1990	11	3372	333.32	273.685465	59.634535		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1990	11	3377	333.54	273.671859	59.868141		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1990	11	3383	333.54	273.655532	59.884468		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1990	11	3388	333.46	273.641927	59.818073		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1990	11	3393	333.53	273.628321	59.901679		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1990	11	3398	333.45	273.616607	59.833393		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1990	11	3403	333.52	273.611655	59.908345		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1990	11	3408	333.57	273.606702	59.963298		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1990	11	3413	333.54	273.60175	59.93825		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1990	11	3418	333.51	273.596798	59.913202		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1990	11	3423	333.78	273.591845	60.188155		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1990	11	3428	333.78	273.586893	60.193107		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1990	11	3433	333.67	273.58194	60.08806		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1990	11	3438	333.7	273.576988	60.123012		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1990	11	3444	333.81	273.571045	60.238955		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/8/1990	11	3446	333.7	273.569064	60.130936		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1990	11	3449	333.67	273.566092	60.103908		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1990	11	3454	333.65	273.561114	60.08886		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1990	11	3459	333.6	273.556187	60.043813		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1990	11	3464	333.54	273.551235	59.988765		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1990	11	3469	333.5	273.547175	59.952825		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1990	11	3474	333.49	273.545272	59.944728		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1990	11	3479	333.46	273.54337	59.91663		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1990	11	3484	333.42	273.541468	59.878532		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1990	11	3489	333.44	273.539565	59.900435		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1990	11	3494	333.39	273.537663	59.852337		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1990	11	3499	333.35	273.53576	59.81424		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1990	11	3505	333.34	273.533477	59.806523		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1990	11	3510	333.31	273.531575	59.778425		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1990	11	3515	333.28	273.529673	59.750327		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1990	11	3520	333.25	273.52777	59.72223		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1990	11	3525	333.25	273.525868	59.724132		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1990	11	3530	333.26	273.523965	59.736035		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1990	11	3536	333.22	273.521682	59.698318		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1990	11	3541	333.49	273.51978	59.97022		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1990	11	3546	333.53	273.517877	60.012123		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/22/1990	11	3552	333.38	273.515595	59.864405		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1990	11	3556	333.38	273.515057	59.864943		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1990	11	3561	333.3	273.514483	59.785517		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1990	11	3566	333.2	273.513909	59.686091		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1990	11	3571	333.39	273.513334	59.876666		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1990	11	3576	333.36	273.51276	59.84724		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1990	11	3581	333.36	273.512186	59.847814		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1990	11	3586	333.41	273.511612	59.898388		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1990	11	3591	333.4	273.511037	59.888963		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1990	11	3597	333.45	273.510348	59.939652		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1990	11	3602	333.44	273.509774	59.930226		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1990	11	3607	333.55	273.509199	60.040801		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1990	11	3612	333.65	273.508625	60.141375		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1990	11	3617	333.65	273.508051	60.141949		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1990	11	3622	333.6	273.507476	60.092524		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1990	11	3627	333.35	273.506902	59.843098		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1990	11	3632	333.45	273.506328	59.943672		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1990	11	3637	333.49	273.505754	59.984246		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1990	11	3642	333.57	273.505179	60.064821		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1990	11	3647	333.45	273.504605	59.945395		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1990	11	3652	333.57	273.504031	60.065969		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1991	12	3658	333.5	273.552938	59.947062		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1991	12	3663	333.73	273.614359	60.115641		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1991	12	3668	333.84	273.67578	60.16422		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1991	12	3673	333.74	273.737202	60.002798		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1991	12	3678	333.63	273.798623	59.831377		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1991	12	3683	333.65	273.860044	59.789956		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1991	12	3689	333.67	273.93375	59.73625		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1991	12	3694	333.63	273.995171	59.634829		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1991	12	3699	333.85	274.056592	59.793408		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1991	12	3704	333.63	274.107	59.523		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1991	12	3709	333.71	274.11054	59.59946		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1991	12	3712	333.83	274.112664	59.717336		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1991	12	3717	333.93	274.116205	59.813795		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1991	12	3722	333.77	274.119745	59.650255		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1991	12	3727	333.81	274.123286	59.686714		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1991	12	3732	333.88	274.126826	59.753174		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1991	12	3737	333.86	274.130367	59.729633		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1991	12	3742	333.85	274.133907	59.716093		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1991	12	3748	333.85	274.138156	59.711844		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1991	12	3753	333.92	274.141697	59.778303		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1991	12	3758	334.2	274.145237	60.054763		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1991	12	3763	334.25	274.147903	60.102097		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1991	12	3768	334.27	274.147441	60.122559		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1991	12	3773	334.35	274.146979	60.203021		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1991	12	3778	334.36	274.146517	60.213483		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/9/1991	12	3781	334.37	274.14624	60.22376		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1991	12	3783	334.37	274.146056	60.223944		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1991	12	3788	334.43	274.145594	60.284406		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1991	12	3793	334.4	274.145132	60.254868		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1991	12	3798	334.42	274.14467	60.27533		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1991	12	3803	334.41	274.144209	60.265791		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1991	12	3809	334.34	274.143654	60.196346		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1991	12	3814	334.41	274.143193	60.266807		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1991	12	3819	334.47	274.142731	60.327269		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1991	12	3824	334.43	274.142269	60.287731		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/26/1991	12	3829	334.42	274.141807	60.278193		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1991	12	3834	334.36	274.141249	60.218751		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/6/1991	12	3839	334.33	274.140455	60.189545		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/11/1991	12	3844	334.27	274.139662	60.130338		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/16/1991	12	3849	334.2	274.138869	60.061131		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/21/1991	12	3854	334.16	274.138076	60.021924		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/26/1991	12	3859	334.17	274.137283	60.032717		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/31/1991	12	3864	334.18	274.13649	60.04351		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/6/1991	12	3870	334.1	274.135538	59.964462		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/11/1991	12	3875	334.24	274.134745	60.105255		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/16/1991	12	3880	334.4	274.133951	60.266049		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/17/1991	12	3881	334.37	274.133793	60.236207		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/21/1991	12	3885	334.36	274.133158	60.226842		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/26/1991	12	3890	334.29	274.132365	60.157635		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	8/31/1991	12	3895	334.3	274.131572	60.168428		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/6/1991	12	3901	334.4	274.13062	60.26938		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/11/1991	12	3906	334.32	274.129827	60.190173		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/16/1991	12	3911	334.29	274.129034	60.160966		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/21/1991	12	3916	334.17	274.128241	60.041759		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	9/26/1991	12	3921	334.21	274.127488	60.082512		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/1/1991	12	3926	334.17	274.126751	60.043249		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/6/1991	12	3931	334.19	274.126013	60.063987		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/11/1991	12	3936	334.17	274.125275	60.044725		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/16/1991	12	3941	334.2	274.124538	60.075462		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/21/1991	12	3946	334.18	274.1238	60.0562		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/26/1991	12	3951	334.22	274.123062	60.096938		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	10/31/1991	12	3956	334.49	274.122324	60.367676		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/6/1991	12	3962	334.47	274.121439	60.348561		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/11/1991	12	3967	334.43	274.120701	60.309299		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/16/1991	12	3972	334.42	274.119964	60.300036		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/21/1991	12	3977	334.51	274.119226	60.390774		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/26/1991	12	3982	334.43	274.118488	60.311512		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/1/1991	12	3987	334.49	274.11775	60.37225		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/6/1991	12	3992	334.41	274.117013	60.292987		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/10/1991	12	3996	334.5	274.116423	60.383577		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/11/1991	12	3997	334.6	274.116275	60.483725		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/16/1991	12	4002	334.44	274.115537	60.324463		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/21/1991	12	4007	334.56	274.1148	60.4452		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/26/1991	12	4012	334.68	274.114062	60.565938		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	12/31/1991	12	4017	334.67	274.113324	60.556676		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/6/1992	13	4023	334.76	274.13001	60.62999		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/11/1992	13	4028	334.69	274.151236	60.538764		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/16/1992	13	4033	334.77	274.172462	60.597538		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/21/1992	13	4038	334.81	274.193687	60.616313		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/26/1992	13	4043	334.83	274.214913	60.615087		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	1/31/1992	13	4048	334.97	274.236139	60.733861		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/6/1992	13	4054	335.11	274.26161	60.84839		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/11/1992	13	4059	335.02	274.282836	60.737164		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/16/1992	13	4064	335.13	274.304062	60.825938		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/21/1992	13	4069	335	274.324993	60.675007		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	2/26/1992	13	4074	335.27	274.344667	60.925333		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/1/1992	13	4078	335.14	274.360407	60.779593		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/6/1992	13	4083	335.25	274.380081	60.869919		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/11/1992	13	4088	335.14	274.399755	60.740245		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/16/1992	13	4093	335.12	274.41943	60.70057		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/21/1992	13	4098	335.12	274.439104	60.680896		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/26/1992	13	4103	335.19	274.458778	60.731222		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/28/1992	13	4105	335.14	274.466648	60.673352		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	3/31/1992	13	4108	335.2	274.478453	60.721547		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/6/1992	13	4114	335.22	274.502062	60.717938		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/11/1992	13	4119	335.21	274.521736	60.688264		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/16/1992	13	4124	335.16	274.541411	60.618589		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/21/1992	13	4129	335.27	274.557952	60.712048		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	4/26/1992	13	4134	335.15	274.570141	60.579859		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/1/1992	13	4139	335.14	274.58233	60.55767		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/6/1992	13	4144	335.12	274.59452	60.52548		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/11/1992	13	4149	335.07	274.606709	60.463291		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/16/1992	13	4154	335.08	274.618899	60.461101		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/21/1992	13	4159	335.05	274.631088	60.418912		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/26/1992	13	4164	335.23	274.643278	60.586722		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	5/31/1992	13	4169	335.21	274.655467	60.554533		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/6/1992	13	4175	335.27	274.670094	60.599906		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/11/1992	13	4180	335.22	274.682284	60.537716		148	428

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1992	13	4185	335.14	274.694473	60.445527		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1992	13	4190	335.08	274.706663	60.373337		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/27/1992	13	4196	334.96	274.72129	60.23871		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1992	13	4200	335.04	274.728631	60.311369		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/18/1992	13	4340	334.7	274.900952	59.799048		148	428
3702201	6522430.264	19987454.54	94	106	1448881	523928	7	7/15/1981	2	196	380.2	340.7404	39.4596		256	400
3702202	6525292.044	19986980.58	94	106	1527430	568629	8	3/31/1981	2	90	284.3	269.624145	14.675855		-58	433
3702205	6531932.181	19983034.96	96	107	1449935	524456	7	4/25/1981	2	115	398.1	349.674551	48.425449		262	418
3702207	6527244.175	19991228.63	94	107	1527431	568630	8	10/1/1981	2	274	275	264.573274	10.426726	-67	-67	425
3702207	6527244.175	19991228.63	94	107	1527431	568630	8	4/10/1988	9	2657	215.22	256.589948	-41.369948	-67	-67	425
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/20/1981	2	324	307.51	342.290785	-34.780785	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/20/1982	3	689	307.11	340.823366	-33.713366	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/19/1983	4	1053	307.25	341.303017	-34.053017	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/6/1985	6	1771	305.35	344.088562	-38.738562	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/7/1986	7	2137	305.39	334.927748	-29.537748	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/12/1987	8	2507	304.38	333.737381	-29.357381	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/11/1990	11	3602	303.6	346.202189	-42.602189	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/8/1991	12	3994	305.02	344.24201	-39.22201	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/19/1992	13	4341	303.98	350.039076	-46.059076	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	3/25/1993	14	4467	306.15	348.017876	-41.867876	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/16/1993	14	4733	305	343.044446	-38.044446	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/18/1994	15	5070	304.85	337.761561	-32.911561	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/17/1995	16	5434	303.32	344.170227	-40.850227	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/23/1996	17	5806	303.85	337.135988	-33.285988	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/18/1997	18	6166	303.8	341.66571	-37.86571	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/17/1998	19	6560	303.45	342.895225	-39.445225	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/10/1999	20	6888	300.95	349.305085	-48.355085	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/21/2000	21	7295	303.4	348.601417	-45.201417	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/7/2001	22	7616	304.15	345.501222	-41.351222	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/13/2002	23	7987	303.58	343.547954	-39.967954	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/12/2003	24	8351	303.3	345.373028	-42.073028	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/13/2004	25	8718	303.2	344.911955	-41.711955	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/7/2005	26	9107	302.85	345.865537	-43.015537	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/20/2009	30	10551	297.82	337.703361	-39.883361	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/17/2010	31	10913	294.1	336.600314	-42.500314	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	10/26/2011	32	11256	285.75	318.824737	-33.074737	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/8/2012	33	11635	296.92	333.765538	-36.845538	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/14/2013	34	12006	297.49	341.478817	-43.988817	154	154	434
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	2/17/2010	31	10640	361.2	314.209026	46.990974		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	9/2/2010	31	10837	361.5	313.944503	47.555497		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	4/19/2011	32	11066	360.4	312.653742	47.746258		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	7/29/2011	32	11167	360.4	311.826334	48.573666		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	11/29/2011	32	11290	360	310.974937	49.025063		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	3/28/2012	33	11410	361.4	311.251714	50.148286		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	6/26/2012	33	11500	360.9	311.675449	49.224551		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	9/14/2012	33	11580	360	311.949299	48.050701		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	12/22/2012	33	11679	360.2	312.213736	47.986264		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	3/27/2013	34	11774	361.4	314.197537	47.202463		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	6/25/2013	34	11864	360.8	315.833524	44.966476		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	9/24/2013	34	11955	360	317.081688	42.918312		160	400

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/16/1992	13	4185	335.14	274.694473	60.445527		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/21/1992	13	4190	335.08	274.706663	60.373337		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	6/27/1992	13	4196	334.96	274.72129	60.23871		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	7/1/1992	13	4200	335.04	274.728631	60.311369		148	428
3701501	6482287.163	19973334.02	93	98	1354289	480657	6	11/18/1992	13	4340	334.7	274.900952	59.799048		148	428
3702201	6522430.264	19987454.54	94	106	1448881	523928	7	7/15/1981	2	196	380.2	340.7404	39.4596		256	400
3702202	6525292.044	19986980.58	94	106	1527430	568629	8	3/31/1981	2	90	284.3	269.624145	14.675855		-58	433
3702205	6531932.181	19983034.96	96	107	1449935	524456	7	4/25/1981	2	115	398.1	349.674551	48.425449		262	418
3702207	6527244.175	19991228.63	94	107	1527431	568630	8	10/1/1981	2	274	275	264.573274	10.426726	-67	-67	425
3702207	6527244.175	19991228.63	94	107	1527431	568630	8	4/10/1988	9	2657	215.22	256.589948	-41.369948	-67	-67	425
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/20/1981	2	324	307.51	342.290785	-34.780785	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/20/1982	3	689	307.11	340.823366	-33.713366	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/19/1983	4	1053	307.25	341.303017	-34.053017	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/6/1985	6	1771	305.35	344.088562	-38.738562	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/7/1986	7	2137	305.39	334.927748	-29.537748	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/12/1987	8	2507	304.38	333.737381	-29.357381	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/11/1990	11	3602	303.6	346.202189	-42.602189	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/8/1991	12	3994	305.02	344.24201	-39.22201	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/19/1992	13	4341	303.98	350.039076	-46.059076	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	3/25/1993	14	4467	306.15	348.017876	-41.867876	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/16/1993	14	4733	305	343.044446	-38.044446	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/18/1994	15	5070	304.85	337.761561	-32.911561	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/17/1995	16	5434	303.32	344.170227	-40.850227	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/23/1996	17	5806	303.85	337.135988	-33.285988	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/18/1997	18	6166	303.8	341.66571	-37.86571	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/17/1998	19	6560	303.45	342.895225	-39.445225	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/10/1999	20	6888	300.95	349.305085	-48.355085	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/21/2000	21	7295	303.4	348.601417	-45.201417	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/7/2001	22	7616	304.15	345.501222	-41.351222	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/13/2002	23	7987	303.58	343.547954	-39.967954	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/12/2003	24	8351	303.3	345.373028	-42.073028	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/13/2004	25	8718	303.2	344.911955	-41.711955	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	12/7/2005	26	9107	302.85	345.865537	-43.015537	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/20/2009	30	10551	297.82	337.703361	-39.883361	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/17/2010	31	10913	294.1	336.600314	-42.500314	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	10/26/2011	32	11256	285.75	318.824737	-33.074737	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/8/2012	33	11635	296.92	333.765538	-36.845538	154	154	434
3702301	6539359.116	19993421.46	95	109	1449400	524181	7	11/14/2013	34	12006	297.49	341.478817	-43.988817	154	154	434
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	2/17/2010	31	10640	361.2	314.209026	46.990974		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	9/2/2010	31	10837	361.5	313.944503	47.555497		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	4/19/2011	32	11066	360.4	312.653742	47.746258		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	7/29/2011	32	11167	360.4	311.826334	48.573666		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	11/29/2011	32	11290	360	310.974937	49.025063		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	3/28/2012	33	11410	361.4	311.251714	50.148286		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	6/26/2012	33	11500	360.9	311.675449	49.224551		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	9/14/2012	33	11580	360	311.949299	48.050701		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	12/22/2012	33	11679	360.2	312.213736	47.986264		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	3/27/2013	34	11774	361.4	314.197537	47.202463		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	6/25/2013	34	11864	360.8	315.833524	44.966476		160	400
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	9/24/2013	34	11955	360	317.081688	42.918312		160	400

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3702502	6525599.763	19977668.33	96	105	1356297	481321	6	12/20/2013	34	12042	361.2	318.041144	43.158856		160	400
3702702	6509199.713	19959163.35	98	101	1529129	569748	8	8/15/1985	6	1688	208	233.087628	-25.087628	18	13	553
3702702	6509199.713	19959163.35	98	101	1529129	569748	8	4/8/1988	9	2655	367.2	276.493508	90.706492	18	13	553
3702703	6514988.785	19956897.75	98	102	1529130	569749	8	6/6/1998	19	6366	230	240.805686	-10.805686	-640	-640	435
3702703	6514988.785	19956897.75	98	102	1529130	569749	8	8/27/1999	20	6813	235.71	243.232037	-7.522037	-640	-640	435
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	7/29/2011	32	11167	258.2	231.771548	26.428452		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	11/29/2011	32	11290	258.9	230.03635	28.86365		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	3/28/2012	33	11410	259	229.309248	29.690752		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	6/26/2012	33	11500	258.2	229.370364	28.829636		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	12/22/2012	33	11679	258.4	229.734433	28.665567		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	3/27/2013	34	11774	258.9	230.750107	28.149893		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	6/25/2013	34	11864	257.9	232.045124	25.854876		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	9/24/2013	34	11955	257.7	233.353962	24.346038		-28	372
3702704	6517689.945	19954387.69	99	102	1529712	570174	8	12/20/2013	34	12042	257.9	234.51246	23.38754		-28	372
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/20/1981	2	324	359.5	298.641329	60.858671	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/20/1982	3	689	360.16	298.09302	62.06698	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	3/12/1985	6	1532	360.62	300.180463	60.439537	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/6/1985	6	1771	359.85	299.234749	60.615251	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/7/1986	7	2137	359	294.86749	64.13251	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/12/1987	8	2507	359.29	295.460084	63.829916	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/12/1988	9	2873	358.95	300.145237	58.804763	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	10/15/1989	10	3210	359.62	301.433936	58.186064	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/11/1990	11	3602	357.25	300.099256	57.150744	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	12/10/1991	12	3996	361.18	299.438583	61.741417	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/19/1992	13	4341	360.18	302.190928	57.989072	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	12/16/1993	14	4733	360.22	298.743412	61.476588	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/18/1994	15	5070	359.32	296.728493	62.591507	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/17/1995	16	5434	361.36	300.024545	61.335455	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/23/1996	17	5806	357.76	296.622453	61.137547	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/22/1997	18	6170	359.83	299.162172	60.667828	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	12/17/1998	19	6560	360.29	299.258383	61.031617	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/10/1999	20	6888	360.5	302.00076	58.49924	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/6/2001	22	7615	360.2	300.031402	60.168598	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/13/2002	23	7987	360.72	299.527767	61.192233	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/11/2003	24	8350	358.73	300.403783	58.326217	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/13/2004	25	8718	360.49	300.098522	60.391478	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	12/8/2005	26	9108	359.79	300.417706	59.372294	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/11/2006	27	9446	355.49	299.054244	56.435756	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/14/2007	28	9814	352.4	298.624311	53.775689	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/19/2008	29	10185	356.34	298.189372	58.150628	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/20/2009	30	10551	357.02	296.789154	60.230846	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/17/2010	31	10913	356	296.609719	59.390281	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	10/26/2011	32	11256	354.7	294.735709	59.964291	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/8/2012	33	11635	355.32	295.648164	59.671836	70	70	500
3702802	6523267.88	19956675.7	99	103	1451887	525418	7	11/14/2013	34	12006	353.65	299.181634	54.468366	70	70	500
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	5/2/2009	30	10349	278.7	309.868891	-31.168891		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	9/2/2009	30	10472	278.9	309.305421	-30.405421		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	11/7/2009	30	10538	283.2	309.096133	-25.896133		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	3/4/2010	31	10655	281.3	308.942856	-27.642856		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	5/2/2010	31	10714	278.5	308.909149	-30.409149		85	425

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	9/2/2010	31	10837	278.2	308.775264	-30.575264		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	12/2/2010	31	10928	277.8	308.666551	-30.866551		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	1/7/2011	32	10964	277.6	308.574836	-30.974836		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	4/19/2011	32	11066	276.7	307.584452	-30.884452		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	7/29/2011	32	11167	276.1	306.807407	-30.707407		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	11/29/2011	32	11290	276.9	305.940058	-29.040058		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	3/28/2012	33	11410	277.1	306.308135	-29.208135		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	6/26/2012	33	11500	276.9	306.743986	-29.843986		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	9/14/2012	33	11580	276.8	307.023791	-30.223791		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	12/22/2012	33	11679	277.2	307.281816	-30.081816		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	3/27/2013	34	11774	278.2	309.277169	-31.077169		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	6/25/2013	34	11864	277.1	310.64836	-33.54836		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	9/24/2013	34	11955	276.8	311.599669	-34.799669		85	425
3702906	6537152.181	19954489.5	101	105	1453449	525912	7	12/20/2013	34	12042	276.9	312.271145	-35.371145		85	425
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	4/2/1981	2	92	321.6	262.223269	59.376731	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	4/9/1988	9	2656	301.37	254.890524	46.479476	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	12/7/1988	9	2898	297.4	257.248909	40.151091	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	3/25/1993	14	4467	293.1	263.910687	29.189313	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	12/16/1993	14	4733	297.84	261.475514	36.364486	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/17/1995	16	5434	296.44	256.981157	39.458843	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/22/1996	17	5805	285.57	252.097516	33.472484	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/22/1997	18	6170	288.81	253.106049	35.703951	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	12/17/1998	19	6560	282.47	255.716613	26.753387	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/11/1999	20	6889	284.15	260.983673	23.166327	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	12/21/2000	21	7295	277.2	267.003818	10.196182	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/13/2002	23	7987	263.97	255.273312	8.696688	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	12/8/2005	26	9108	269.02	258.435926	10.584074	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/15/2006	27	9450	277.99	256.23359	21.75641	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/14/2007	28	9814	264.24	259.115222	5.124778	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/20/2009	30	10551	289.86	255.760528	34.099472	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/18/2010	31	10914	291.25	253.329355	37.920645	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	10/26/2011	32	11256	280.18	248.433081	31.746919	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/9/2012	33	11636	290.92	248.072106	42.847894	120	110	480
3703201	6570371.561	19983750.54	99	113	1592972	620284	9	11/14/2013	34	12006	293.03	253.134244	39.895756	120	110	480
3703202	6570371.618	19983750.69	99	113	1592972	620284	9	4/4/1981	2	94	321.2	262.227954	58.972046	6	-4	480
3703202	6570371.618	19983750.69	99	113	1592972	620284	9	12/3/2004	25	8738	281.02	253.50455	27.51545	6	-4	480
3703304	6572773.915	19985691.43	99	114	1592973	620285	9	1/3/1992	13	4020	293	271.613924	21.386076	22	12	432
3703304	6572773.915	19985691.43	99	114	1592973	620285	9	3/25/1993	14	4467	297.26	274.216801	23.043199	22	12	432
3703304	6572773.915	19985691.43	99	114	1592973	620285	9	12/16/1993	14	4733	296.55	272.299424	24.250576	22	12	432
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	4/4/1981	2	94	358.5	341.859095	16.640905		87	557
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	11/20/1982	3	689	358.26	339.109998	19.150002		87	557
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	11/19/1983	4	1053	350.6	339.718428	10.881572		87	557
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	11/7/1985	6	1772	361.05	343.184122	17.865878		87	557
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	10/14/1989	10	3209	361.65	348.924223	12.725777		87	557
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	11/11/1990	11	3602	361.13	345.431859	15.698141		87	557
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	12/8/1991	12	3994	364.05	343.219849	20.830151		87	557
3703502	6567505.87	19971750.63	101	112	1453468	525931	7	11/19/1992	13	4341	361.4	351.423899	9.976101		87	557
3703602	6573545.813	19982180.39	100	114	1452789	525699	7	4/14/1987	8	2295	276	306.485003	-30.485003	17	-22	477
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/18/1981	2	322	351.75	345.045126	6.704874	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/23/1982	3	692	351.28	343.711952	7.568048	335	335	415

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/18/1983	4	1052	354.15	344.300814	9.849186	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/2/1984	5	1402	353.88	349.225188	4.654812	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/11/1986	7	2141	350.85	338.197462	12.652538	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	2/10/1988	9	2597	352.02	339.627805	12.392195	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	10/15/1989	10	3210	352.97	351.304747	1.665253	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/15/1990	11	3606	348.5	348.796276	-0.296276	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/7/1991	12	3963	350.87	347.167701	3.702299	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/13/1992	13	4335	349.23	352.353375	-3.123375	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	12/16/1993	14	4733	349.02	346.102156	2.917844	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/9/1994	15	5061	350.65	341.33347	9.31653	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/10/1995	16	5427	348.58	347.763153	0.816847	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/23/1996	17	5806	348.4	341.30657	7.09343	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/12/1997	18	6160	348.88	346.043638	2.836362	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/12/1998	19	6525	348.2	346.850939	1.349061	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/13/1999	20	6891	348.14	352.233358	-4.093358	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/7/2001	22	7616	348.61	348.440666	0.16934	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/5/2003	24	8344	349.02	348.873542	0.146458	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/4/2004	25	8709	350.05	348.492039	1.557961	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	12/12/2005	26	9112	347.55	348.908744	-1.358744	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/8/2006	27	9443	348.47	346.483469	1.986531	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/21/2007	28	9821	347.73	344.901653	2.828347	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/20/2008	29	10186	346.17	344.172978	1.997022	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	12/2/2009	30	10563	349.25	340.665388	8.584612	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/3/2010	31	10899	341.2	339.839698	1.360302	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	10/21/2011	32	11251	343.44	336.856107	6.583893	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	11/10/2012	33	11637	344.5	339.865453	4.634547	335	335	415
3704301	6610668.439	19990481.71	102	120	1454119	526205	7	12/11/2013	34	12033	345.3	345.425324	-0.125324	335	335	415
3704302	6618982.25	19994644.78	102	122	1454123	526209	7	1/17/1986	7	1843	316	338.229959	-22.229959	70	70	370
3704302	6618982.25	19994644.78	102	122	1454123	526209	7	6/19/1986	7	1996	320.18	334.288086	-14.108086	70	70	370
3704303	6618038.099	19994597.93	102	122	1531625	571598	8	6/19/1986	7	1996	327.4	296.156155	31.243845	43	43	398
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/20/1981	2	324	358.7	348.062717	10.637283	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/20/1982	3	689	361.99	346.63312	15.35688	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/19/1983	4	1053	363.04	347.328983	15.711017	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	3/12/1985	6	1532	363.55	352.295018	11.254982	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/7/1985	6	1772	359.98	350.136333	9.843667	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/13/1986	7	2143	361.9	339.963787	21.936213	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/12/1987	8	2507	361.71	339.671395	22.038605	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/15/1988	9	2876	362.05	351.341425	10.708575	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	10/13/1989	10	3208	362.31	355.610316	6.699684	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/11/1990	11	3602	362.11	352.440191	9.669809	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	12/8/1991	12	3994	363.78	350.46133	13.31867	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/19/1992	13	4341	352.7	355.878578	-3.178578	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	12/16/1993	14	4733	359.85	352.573418	7.276582	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/18/1994	15	5070	362.43	343.823082	18.606918	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/17/1995	16	5434	361.6	351.504181	10.095819	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/23/1996	17	5806	360.27	343.886736	16.383264	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	12/17/1998	19	6560	361.65	350.364349	11.285651	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/10/1999	20	6888	361.2	356.947675	4.252325	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/11/2000	21	7255	360.63	355.319564	5.310436	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/6/2001	22	7615	361.48	352.012593	9.467407	89	79	394

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/13/2002	23	7987	360.72	350.472156	10.247844	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/13/2004	25	8718	361.81	352.207138	9.602862	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	12/8/2005	26	9108	360.68	352.651063	8.028937	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/15/2006	27	9450	360.92	349.597372	11.322628	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/14/2007	28	9814	360.44	347.821092	12.618908	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/20/2009	30	10551	360.81	342.911798	17.898202	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/17/2010	31	10913	360.25	341.879314	18.370686	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	10/26/2011	32	11256	359.32	338.245461	21.074539	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/8/2012	33	11635	359.5	339.446585	20.053415	89	79	394
3704601	6613876.866	19972593.18	105	119	1455780	526781	7	11/14/2013	34	12006	360.09	347.955722	12.134278	89	79	394
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	10/3/2006	27	9407	479.8	347.717064	132.08294		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	11/2/2006	27	9437	479.8	347.472451	132.32755		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	12/2/2006	27	9467	480.3	347.227838	133.07216		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	1/3/2007	28	9499	480	346.966518	133.03348		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	2/2/2007	28	9529	480.6	346.709949	133.89005		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	3/2/2007	28	9557	480.6	346.484302	134.1157		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	4/3/2007	28	9589	480.8	346.255062	134.54494		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	5/2/2007	28	9618	480.4	346.064241	134.33576		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	6/2/2007	28	9649	480.4	345.885559	134.51444		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	7/3/2007	28	9680	480.4	345.711732	134.68827		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	8/2/2007	28	9710	480.6	345.580872	135.01913		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	9/4/2007	28	9743	480.2	345.436926	134.76307		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	10/2/2007	28	9771	480	345.327296	134.6727		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	11/2/2007	28	9802	479.6	345.232014	134.36799		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	12/4/2007	28	9834	479.5	345.133659	134.36634		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	1/3/2008	29	9864	479.8	345.041313	134.75869		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	2/2/2008	29	9894	479.7	344.944989	134.75501		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	3/4/2008	29	9925	479.9	344.848797	135.0512		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	4/2/2008	29	9954	479.9	344.763169	135.13683		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	5/1/2008	29	9983	480.2	344.680768	135.51923		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	6/1/2008	29	10014	480	344.597504	135.4025		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	7/1/2008	29	10044	479.5	344.517554	134.98245		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	8/1/2008	29	10075	479.2	344.442189	134.75781		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	9/1/2008	29	10106	479.3	344.366824	134.93318		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	11/1/2008	29	10167	479.4	344.228458	135.17154		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	12/1/2008	29	10197	479.1	344.162844	134.93716		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	2/1/2009	30	10259	479.2	343.620313	135.57969		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	3/1/2009	30	10287	479	343.199581	135.80042		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	4/2/2009	30	10319	479.6	342.735799	136.8642		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	5/2/2009	30	10349	479.8	342.324286	137.47571		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	7/2/2009	30	10410	479.6	341.558075	138.04193		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	8/4/2009	30	10443	479.3	341.216395	138.08361		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	9/2/2009	30	10472	479	340.916131	138.08387		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	10/2/2009	30	10502	478.6	340.629568	137.97043		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	11/3/2009	30	10534	479.2	340.375334	138.82467		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	12/3/2009	30	10564	480.2	340.136988	140.06301		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	1/13/2010	31	10605	478.8	339.858792	138.94121		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	2/4/2010	31	10627	480.4	339.77909	140.62091		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	3/3/2010	31	10654	481.1	339.68739	141.41261		432	562
3704802	6605256.069	19965780.64	105	117	1455777	526778	7	4/6/2010	31	10688	481	339.583205	141.4168		432	562

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3705101	6624909.616	19986220.26	104	122	1362245	482893	6	6/25/1986	7	2002	423.07	363.445703	59.624297	395	395	450
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/18/1981	2	322	284.23	314.140679	-29.910679	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/23/1982	3	692	283.76	313.971587	-30.211587	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/18/1983	4	1052	284.13	314.103042	-29.973042	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/2/1984	5	1402	284.82	314.815799	-29.995799	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/11/1986	7	2141	285.27	313.231334	-27.961334	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	2/10/1988	9	2597	286.32	313.885672	-27.565672	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/13/1988	9	2874	285.57	314.847216	-29.277216	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/15/1990	11	3606	285.35	314.540548	-29.190548	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/7/1991	12	3963	284.77	314.339881	-29.569881	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/13/1992	13	4335	284.33	315.247561	-30.917561	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	12/16/1993	14	4733	284.25	314.03854	-29.78854	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/9/1994	15	5061	286.03	313.651009	-27.621009	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/10/1995	16	5427	285.52	314.699698	-29.179698	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/22/1996	17	5805	283.9	313.682551	-29.782551	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/12/1997	18	6160	286.2	314.425781	-28.225781	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/12/1998	19	6525	284.75	314.382219	-29.632219	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/13/1999	20	6891	284.78	315.259625	-30.479625	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/30/2000	21	7274	284.8	315.448674	-30.648674	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/7/2001	22	7616	284.27	315.209376	-30.939376	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/8/2002	23	7982	285.25	315.152237	-29.902237	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/5/2003	24	8344	285.11	315.335216	-30.225216	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	12/12/2005	26	9112	285.22	315.309381	-30.089381	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/8/2006	27	9443	284.48	315.074462	-30.594462	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/21/2007	28	9821	284.9	315.038831	-30.138831	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/20/2008	29	10186	284.9	315.004705	-30.104705	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	12/2/2009	30	10563	286.38	313.831239	-27.451239	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/3/2010	31	10899	283.9	313.70327	-29.80327	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	10/21/2011	32	11251	282.01	313.227496	-31.217496	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	11/10/2012	33	11637	283.45	313.561219	-30.111219	255	255	300
3705201	6645559.706	19994960.25	104	127	1455355	526622	7	12/11/2013	34	12033	283.9	315.252718	-31.352718	255	255	300
3705202	6639272.049	19996773.35	103	126	1454799	526440	7	11/22/1985	6	1787	290	318.254564	-28.254564	90	90	350
3705202	6639272.049	19996773.35	103	126	1454799	526440	7	6/24/1986	7	2001	313.2	316.652106	-3.452106	90	90	350
3705301	6656853.028	19992895.25	106	128	1533494	573204	8	2/3/1982	3	399	230	261.355136	-31.355136	90	90	440
3705301	6656853.028	19992895.25	106	128	1533494	573204	8	12/12/2005	26	9112	425.22	256.261725	168.95828	90	90	440
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/20/1981	2	324	351.02	340.361985	10.658015	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/23/1982	3	692	352.37	339.250431	13.119569	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/12/1983	4	1046	358.16	339.885889	18.274111	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/8/1984	5	1408	357.3	344.295713	13.004287	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/8/1985	6	1773	353.6	341.815704	11.784296	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/11/1986	7	2141	354.19	333.869859	20.320141	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	1/16/1988	9	2572	360.1	334.816554	25.283446	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	1/11/1989	10	2933	360.33	344.227591	16.102409	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	10/13/1989	10	3208	360.65	346.106871	14.543129	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/9/1990	11	3600	360.64	343.482501	17.157499	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	12/8/1991	12	3994	361.9	342.002066	19.897934	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/12/1992	13	4334	360.75	346.868263	13.881737	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/18/1993	14	4705	363.5	341.170232	22.329768	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/11/1994	15	5063	365.1	336.768399	28.331601	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/11/1995	16	5428	365.4	343.198022	22.201978	329	329	388

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/21/1996	17	5804	366.2	336.983947	29.216053	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/14/1997	18	6162	368.3	341.760047	26.539953	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/11/1998	19	6524	368.25	342.175473	26.074527	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/12/1999	20	6890	367.53	346.931351	20.598649	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	12/2/2000	21	7276	369.8	345.985187	23.814813	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/8/2001	22	7617	368.15	343.821335	24.328665	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/6/2002	23	7980	387.25	356.193049	31.056951	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/20/2003	24	8359	375.35	344.508732	30.841268	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	12/9/2005	26	9109	369.11	344.418845	24.691155	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/9/2006	27	9444	380.27	342.238571	38.031429	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/9/2007	28	9809	363.37	341.060755	22.309245	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/21/2008	29	10187	366.89	340.497887	26.392113	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	12/4/2009	30	10565	376.03	336.49401	39.53599	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/5/2010	31	10901	369.44	335.791045	33.648955	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	10/19/2011	32	11249	368.5	332.894967	35.605033	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/8/2012	33	11635	368.8	334.123837	34.676163	329	329	388
3705701	6633528.228	19970528.89	107	122	1456685	527180	7	11/20/2013	34	12012	369.2	341.639598	27.560402	329	329	388
3705702	6633780.96	19970643.25	107	122	1456685	527180	7	3/6/1982	3	430	352	343.461004	8.538996	292	292	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	8/3/1984	5	1311	322	343.324212	-21.324212	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	6/24/1986	7	2001	327.64	336.210734	-8.570734	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/11/1986	7	2141	328.14	333.684817	-5.544817	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	1/16/1988	9	2572	328.45	334.630485	-6.180485	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	1/11/1989	10	2933	327.55	343.981335	-16.431335	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	10/13/1989	10	3208	325.16	345.843333	-20.683333	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/9/1990	11	3600	324.8	343.225597	-18.425597	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	12/8/1991	12	3994	325.55	341.756245	-16.206245	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/12/1992	13	4334	324.5	346.59296	-22.09296	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/18/1993	14	4705	326.3	340.924047	-14.624047	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/11/1994	15	5063	324.86	336.560056	-11.700056	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/11/1995	16	5428	324.56	342.950974	-18.390974	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/21/1996	17	5804	324.2	336.777393	-12.577393	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/11/1998	19	6524	324.2	341.933663	-17.733663	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/12/1999	20	6890	321.8	346.661116	-24.861116	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	12/2/2000	21	7276	321.1	345.733175	-24.633175	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/6/2002	23	7980	323.35	342.658926	-19.308926	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/6/2003	24	8345	322.88	344.233123	-21.353123	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/4/2004	25	8709	323.3	343.865824	-20.565824	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/9/2007	28	9809	320.64	340.856104	-20.216104	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/21/2008	29	10187	321.07	340.299164	-19.229164	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	12/4/2009	30	10565	322.6	336.300238	-13.700238	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/5/2010	31	10901	321.5	335.599303	-14.099303	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	10/19/2011	32	11249	319.2	332.720128	-13.520128	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/8/2012	33	11635	314.05	333.947308	-19.897308	132	132	392
3705703	6633871.886	19970546.07	107	122	1456685	527180	7	11/20/2013	34	12012	298.98	328.698553	-29.718553	132	132	392
3705803	6648494.777	19964081.86	110	124	1535455	574995	8	5/31/1981	2	151	270	256.337474	13.662526	-310	-383	390
3705803	6648494.777	19964081.86	110	124	1535455	574995	8	4/30/1986	7	1946	237.4	253.671213	-16.271213	-310	-383	390
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	1/1/1981	2	1	247.24169	254.539632	-7.297942	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	1/6/1981	2	6	244.35	254.644638	-10.294638	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	1/11/1981	2	11	245.3	254.749645	-9.449645	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	1/16/1981	2	16	245.59	254.854651	-9.264651	-12	-22	408

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	1/21/1981	2	21	246.35	254.959657	-8.609657	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	1/26/1981	2	26	246.68	255.064664	-8.384664	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	1/31/1981	2	31	246.42	255.16967	-8.74967	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	2/6/1981	2	37	249.04	255.295678	-6.255678	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	2/11/1981	2	42	253.24	255.400684	-2.160684	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	2/16/1981	2	47	251.82	255.50569	-3.68569	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	2/21/1981	2	52	251.11	255.579504	-4.469504	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	2/26/1981	2	57	249.9	255.598677	-5.698677	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	3/6/1981	2	65	248.72	255.629353	-6.909353	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	3/11/1981	2	70	248.98	255.648525	-6.668525	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	3/16/1981	2	75	250.38	255.667698	-5.287698	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	3/21/1981	2	80	249.73	255.68687	-5.95687	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	3/26/1981	2	85	249.67	255.706043	-6.036043	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	3/31/1981	2	90	252	255.725215	-3.725215	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	4/6/1981	2	96	249.14	255.748222	-6.608222	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	4/11/1981	2	101	249.86	255.767394	-5.907394	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	4/16/1981	2	106	250.61	255.786567	-5.176567	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	4/21/1981	2	111	251.7	255.801206	-4.101206	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	4/26/1981	2	116	250.36	255.807768	-5.447768	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	5/1/1981	2	121	249.57	255.81433	-6.24433	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	5/6/1981	2	126	251.83	255.820891	-3.990891	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	5/11/1981	2	131	249.63	255.827453	-6.197453	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	5/16/1981	2	136	249.01	255.834015	-6.824015	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	5/21/1981	2	141	249.34	255.840577	-6.500577	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	5/26/1981	2	146	249.01	255.847139	-6.837139	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	5/31/1981	2	151	251.54	255.853701	-4.313701	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	6/6/1981	2	157	252.09	255.861575	-3.771575	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	6/11/1981	2	162	247.8	255.868137	-8.068137	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	6/16/1981	2	167	247.7	255.874699	-8.174699	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	6/21/1981	2	172	247.47	255.88126	-8.41126	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	6/26/1981	2	177	247.6	255.887822	-8.287822	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	7/1/1981	2	182	245.83	255.892916	-10.062916	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	7/6/1981	2	187	248.78	255.895759	-7.115759	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	7/11/1981	2	192	246.39	255.898602	-9.508602	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	7/16/1981	2	197	246.06	255.901445	-9.841445	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	7/21/1981	2	202	245.7	255.904288	-10.204288	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	7/26/1981	2	207	242.55	255.907131	-13.357131	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	7/31/1981	2	212	245.4	255.909974	-10.509974	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	8/6/1981	2	218	245.37	255.913386	-10.543386	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	8/11/1981	2	223	245.8	255.916229	-10.116229	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	8/16/1981	2	228	243.47	255.919072	-12.449072	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	8/19/1981	2	231	248.68	255.920778	-7.240778	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	8/21/1981	2	233	244.88	255.921915	-11.041915	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	8/26/1981	2	238	243.43	255.924758	-12.494758	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	8/31/1981	2	243	246.81	255.927601	-9.117601	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	9/6/1981	2	249	246.35	255.931013	-9.581013	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	9/11/1981	2	254	246.48	255.933856	-9.453856	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	9/16/1981	2	259	246.32	255.936699	-9.616699	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	9/21/1981	2	264	246.12	255.939542	-9.819542	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	9/26/1981	2	269	245.5	255.941268	-10.441268	-12	-22	408

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	10/1/1981	2	274	244.91	255.942711	-11.032711	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	10/6/1981	2	279	242.84	255.944153	-13.104153	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	10/11/1981	2	284	245.24	255.945596	-10.705596	-12	-22	408
3705902	6653642.511	19967891.05	109	125	1535006	574575	8	11/10/1981	2	314	237.62	255.954251	-18.334251	-12	-22	408
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	5/1/1986	7	1947	212.18	252.465453	-40.285453	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/11/1986	7	2141	229	243.77253	-14.77253	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	1/11/1989	10	2933	230.25	252.719553	-22.469553	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	10/13/1989	10	3208	228.1	254.187823	-26.087823	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/9/1990	11	3600	223.5	245.613789	-22.113789	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	12/7/1991	12	3993	225.6	251.346204	-25.746204	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/12/1992	13	4334	230.2	250.62468	-20.42468	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/19/1993	14	4706	214.41	240.423233	-26.013233	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/11/1994	15	5063	216.03	248.261121	-32.231121	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/22/1996	17	5805	221.45	239.856489	-18.406489	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/14/1997	18	6162	230.3	246.506221	-16.206221	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/11/1998	19	6524	224	251.598704	-27.598704	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/12/1999	20	6890	209.42	253.227161	-43.807161	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	12/2/2000	21	7276	206.1	254.40856	-48.30856	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/8/2001	22	7617	218.7	251.928528	-33.228528	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/6/2002	23	7980	205.5	236.066703	-30.566703	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/6/2003	24	8345	227.4	246.23819	-18.83819	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	12/9/2005	26	9109	220	249.399062	-29.399062	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/10/2006	27	9445	195	230.791503	-35.791503	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/9/2007	28	9809	255	247.79952	7.20048	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/21/2008	29	10187	226	246.083723	-20.083723	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	12/4/2009	30	10565	258	246.807384	11.192616	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/5/2010	31	10901	216.58	244.29535	-27.71535	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	10/19/2011	32	11249	210.61	230.973828	-20.363828	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/8/2012	33	11635	202.68	229.488095	-26.808095	-319	-332	405
3705905	6655441.861	19968083.3	109	126	1535009	574578	8	11/22/2013	34	12014	232	246.140915	-14.140915	-319	-332	405
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	3/22/1984	5	1177	296	327.343007	-31.343007	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	5/1/1986	7	1947	295.16	324.346675	-29.186675	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	2/23/1988	9	2610	295.5	324.228155	-28.728155	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	1/11/1989	10	2933	294.3	327.698573	-33.398573	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	10/13/1989	10	3208	294.9	327.737881	-32.837881	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/9/1990	11	3600	295.1	327.586394	-32.486394	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	12/7/1991	12	3993	295.8	327.193435	-31.393435	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/12/1992	13	4334	295.3	327.766601	-32.466601	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/18/1993	14	4705	295.8	326.205795	-30.405795	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/22/1996	17	5805	294.85	323.849555	-28.999555	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/13/1997	18	6161	295	327.395528	-32.395528	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/11/1998	19	6524	294.8	327.492131	-32.692131	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/12/1999	20	6890	294.69	327.781018	-33.091018	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	12/2/2000	21	7276	294.4	327.656337	-33.256337	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/8/2001	22	7617	295.08	327.483114	-32.403114	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/6/2002	23	7980	294.95	327.262975	-32.312975	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/6/2003	24	8345	294.59	327.626093	-33.036093	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/4/2004	25	8709	295.25	327.590774	-32.340774	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	12/9/2005	26	9109	294.76	327.608257	-32.848257	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/9/2006	27	9444	294.61	326.931514	-32.321514	110	107	370

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/9/2007	28	9809	294.3	326.508042	-32.208042	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	12/4/2009	30	10565	294.62	323.988472	-29.368472	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/5/2010	31	10901	293.92	323.631962	-29.711962	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	10/19/2011	32	11249	292.94	321.808941	-28.868941	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/8/2012	33	11635	292.9	322.927343	-30.027343	110	107	370
3706101	6668169.95	19993775.47	106	130	1456222	527004	7	11/22/2013	34	12014	292.8	327.394079	-34.594079	110	107	370
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/19/1981	2	323	270.5	296.783979	-26.283979	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/23/1982	3	692	270.41	296.622311	-26.212311	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/8/1984	5	1408	269.85	297.483238	-27.633238	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/8/1985	6	1773	270.3	296.913515	-26.613515	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/11/1986	7	2141	269.53	295.419628	-25.889628	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	1/11/1989	10	2933	267.5	297.667941	-30.167941	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	10/13/1989	10	3208	268.62	297.796322	-29.176322	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/9/1990	11	3600	268.85	297.172397	-28.322397	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	12/8/1991	12	3994	269.46	296.987313	-27.527313	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/12/1992	13	4334	268.1	297.899011	-29.799011	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/18/1993	14	4705	268.8	296.646651	-27.846651	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/11/1994	15	5063	268.95	296.020559	-27.070559	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/8/1995	16	5425	262.69	297.421986	-34.731986	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/22/1996	17	5805	263.65	296.001525	-32.351525	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/14/1997	18	6162	266.6	297.168511	-30.568511	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/11/1998	19	6524	265.9	297.079934	-31.179934	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/12/1999	20	6890	264.35	297.942867	-33.592867	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	12/1/2000	21	7275	264.8	297.457521	-32.657521	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/8/2001	22	7617	254.76	297.06886	-42.30886	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/6/2003	24	8345	256.65	297.310998	-40.660998	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/4/2004	25	8709	261.6	297.173162	-35.573162	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	12/12/2005	26	9112	258.88	297.254927	-38.374927	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/9/2006	27	9444	264.18	296.819042	-32.639042	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/9/2007	28	9809	264.42	296.711258	-32.291258	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/21/2008	29	10187	264.85	296.661774	-31.811774	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	12/4/2009	30	10565	265.53	296.072605	-30.542605	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/5/2010	31	10901	263.04	296.076787	-33.036787	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	10/19/2011	32	11249	260.51	295.527465	-35.017465	145	145	315
3706401	6671058.524	19972629.72	110	129	1458486	527870	7	11/8/2012	33	11635	261.6	295.982092	-34.382092	145	145	315
3706501	6679433.819	19985632.31	109	131	1596026	622998	9	4/30/1986	7	1946	227	237.634722	-10.634722	-24	-24	321
3706502	6679254.321	19987448.51	108	132	1595760	622761	9	5/10/2001	22	7435	220.2	238.593372	-18.393372	-205	-205	360
3706502	6679254.321	19987448.51	108	132	1595760	622761	9	7/23/2003	24	8239	220.04	236.183915	-16.143915	-205	-205	360
3706701	6673584.88	19960286.99	112	128	1459415	528221	7	8/25/1984	5	1333	259	297.130626	-38.130626	109	109	349
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	3/20/1981	2	79	216.7	224.733848	-8.033848	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/18/1981	2	322	215.25	224.657178	-9.407178	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/21/1982	3	690	215.89	224.501531	-8.611531	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/18/1983	4	1052	215.21	224.641814	-9.431814	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/2/1984	5	1402	214.53	225.201505	-10.671505	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/12/1986	7	2142	214.89	220.921181	-6.031181	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	2/10/1988	9	2597	219	224.087203	-5.087203	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	10/19/1988	9	2849	215.35	225.103359	-9.753359	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	10/15/1989	10	3210	215.5	225.553791	-10.053791	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/15/1990	11	3606	216.02	225.051082	-9.031082	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/7/1991	12	3963	216.76	224.799192	-8.039192	189	181	247

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	12/17/1992	13	4369	217.05	225.674913	-8.624913	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	12/16/1993	14	4733	216.48	224.512602	-8.032602	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/9/1994	15	5061	217.75	223.863412	-6.113412	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/10/1995	16	5427	215.88	224.88351	-9.00351	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/22/1996	17	5805	216.85	223.5816	-6.7316	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/12/1997	18	6160	216	224.5085	-8.5085	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/12/1998	19	6525	216	224.404624	-8.404624	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/12/1999	20	6890	215.15	225.410358	-10.260358	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/30/2000	21	7274	217.1	224.885294	-7.785294	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/7/2001	22	7616	210.95	224.44046	-13.49046	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/7/2002	23	7981	216.75	224.121565	-7.371565	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/5/2003	24	8344	215.22	224.446049	-9.226049	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/3/2004	25	8708	218.05	224.404259	-6.354259	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/9/2006	27	9444	216.28	224.042676	-7.762676	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/21/2007	28	9821	216.21	223.866503	-7.656503	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/20/2008	29	10186	214.99	223.75675	-8.76675	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	12/2/2009	30	10563	214.85	223.295525	-8.445525	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/3/2010	31	10899	214.29	223.204234	-8.914234	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	10/20/2011	32	11250	213.31	222.578201	-9.268201	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	11/8/2012	33	11635	214.55	222.844519	-8.294519	189	181	247
3707201	6717003.19	20001476.01	110	139	1535482	575022	8	12/10/2013	34	12032	215.4	224.181274	-8.781274	189	181	247
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/19/1981	2	323	189.02	234.019445	-44.999445	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/8/1984	5	1408	189.65	234.332887	-44.682887	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/8/1985	6	1773	189.93	234.073521	-44.143521	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	1/16/1988	9	2572	190.28	232.879948	-42.599948	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	1/11/1989	10	2933	189.5	234.829745	-45.329745	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	10/13/1989	10	3208	189.39	235.400639	-46.010639	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/10/1990	11	3601	189.46	235.004336	-45.544336	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	12/7/1991	12	3993	190.12	234.436946	-44.316946	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/12/1992	13	4334	188.95	235.301133	-46.351133	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/18/1993	14	4705	189.2	233.943224	-44.743224	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/10/1994	15	5062	189.91	232.693172	-42.783172	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/9/1995	16	5426	188.56	233.889755	-45.329755	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/22/1996	17	5805	189.4	232.103159	-42.703159	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/13/1997	18	6161	189.4	233.524565	-44.124565	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/11/1998	19	6524	189.3	232.841458	-43.541458	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/12/1999	20	6890	188.23	234.371968	-46.141968	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/30/2000	21	7274	187.7	219.996829	-32.296829	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/8/2001	22	7617	188.18	233.213192	-45.033192	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/6/2002	23	7980	188.45	232.756494	-44.306494	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/6/2003	24	8345	188.1	233.245314	-45.145314	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/3/2004	25	8708	189.25	233.244907	-43.994907	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/9/2006	27	9444	188.25	232.13703	-43.88703	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/9/2007	28	9809	188.72	231.763093	-43.043093	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/21/2008	29	10187	187.82	231.414473	-43.594473	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	12/2/2009	30	10563	188.65	230.555823	-41.905823	90	90	240
3707202	6716259.792	19995961.12	110	138	1535481	575021	8	11/4/2010	31	10900	187	230.187491	-43.187491	90	90	240
3707401	6702073.443	19984065.36	111	135	1535910	575421	8	11/10/2006	27	9445	180.99	228.83305	-47.84305	-163	-174	345
3707401	6702073.443	19984065.36	111	135	1535910	575421	8	11/9/2007	28	9809	179.4	230.280086	-50.880086	-163	-174	345
3707401	6702073.443	19984065.36	111	135	1535910	575421	8	11/4/2010	31	10900	167.75	225.912913	-58.162913	-163	-174	345

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3707401	6702073.443	19984065.36	111	135	1535910	575421	8	10/19/2011	32	11249	163.85	220.370925	-56.520925	-163	-174	345
3707401	6702073.443	19984065.36	111	135	1535910	575421	8	11/7/2012	33	11634	179.6	209.718894	-30.118894	-163	-174	345
3707401	6702073.443	19984065.36	111	135	1535910	575421	8	11/22/2013	34	12014	165.26	229.56113	-64.30113	-163	-174	345
3707403	6702560.499	19982975.39	111	135	1535910	575421	8	1/6/1992	13	4023	198	224.137534	-26.137534	-155	-159	345
3707404	6705191.3	19983720.98	111	135	1535910	575421	8	12/9/1999	20	6917	185	215.141326	-30.141326	-120	-120	330
3708301	6773546.14	20000029.86	115	148	1597573	624288	9	11/19/1981	2	323	177.14	207.700922	-30.560922		-16	192
3708301	6773546.14	20000029.86	115	148	1597573	624288	9	11/24/1982	3	693	177.08	207.414428	-30.334428		-16	192
3708301	6773546.14	20000029.86	115	148	1597573	624288	9	11/12/1983	4	1046	178.98	207.603388	-28.623388		-16	192
3708301	6773546.14	20000029.86	115	148	1597573	624288	9	11/12/1986	7	2142	179.73	205.935992	-26.205992		-16	192
3708301	6773546.14	20000029.86	115	148	1597573	624288	9	1/11/1989	10	2933	178.6	209.183666	-30.583666		-16	192
3708301	6773546.14	20000029.86	115	148	1597573	624288	9	10/12/1989	10	3207	182	209.463856	-27.463856		-16	192
3708301	6773546.14	20000029.86	115	148	1597573	624288	9	11/10/1990	11	3601	179.79	208.879751	-29.089751		-16	192
3708302	6773566.011	19996481.19	116	148	1597831	624489	9	11/19/1981	2	323	169.34	206.728232	-37.388232		-11	185
3708302	6773566.011	19996481.19	116	148	1597831	624489	9	11/24/1982	3	693	169	206.436219	-37.436219		-11	185
3708302	6773566.011	19996481.19	116	148	1597831	624489	9	11/12/1983	4	1046	169.76	206.61786	-36.85786		-11	185
3708302	6773566.011	19996481.19	116	148	1597831	624489	9	11/8/1984	5	1408	170.06	207.483701	-37.423701		-11	185
3708302	6773566.011	19996481.19	116	148	1597831	624489	9	11/8/1985	6	1773	170.15	206.980231	-36.830231		-11	185
3708302	6773566.011	19996481.19	116	148	1597831	624489	9	11/12/1986	7	2142	170.66	204.977008	-34.317008		-11	185
3708501	6759543.117	19985076.75	116	145	1538542	577880	8	7/23/1982	3	569	255	230.84357	24.15643		185	285
3708601	6771034.114	19990766.75	116	147	1597830	624488	9	11/19/1981	2	323	173.98	206.903707	-32.923707		-80	250
3708601	6771034.114	19990766.75	116	147	1597830	624488	9	11/24/1982	3	693	173.3	206.584963	-33.284963		-80	250
3708601	6771034.114	19990766.75	116	147	1597830	624488	9	11/12/1983	4	1046	171.54	206.767808	-35.227808		-80	250
3708601	6771034.114	19990766.75	116	147	1597830	624488	9	4/24/1986	7	1940	173.96	206.057536	-32.097536		-80	250
3708601	6771034.114	19990766.75	116	147	1597830	624488	9	11/12/1986	7	2142	174.9	205.051354	-30.151354		-80	250
3708601	6771034.114	19990766.75	116	147	1597830	624488	9	1/16/1988	9	2572	174.25	205.631621	-31.381621		-80	250
3708601	6771034.114	19990766.75	116	147	1597830	624488	9	1/11/1989	10	2933	175	208.449726	-33.449726		-80	250
3708606	6776289.649	19984358.16	118	147	1539664	578912	8	5/2/2009	30	10349	179	187.707665	-8.707665		77	257
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/19/1981	2	323	202.26	229.943393	-27.683393		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/24/1982	3	693	203.81	229.437748	-25.627748		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/12/1983	4	1046	202.55	229.691991	-27.141991		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/8/1984	5	1408	201.29	231.178496	-29.888496		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/8/1985	6	1773	201.63	230.386346	-28.756346		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/12/1986	7	2142	201.79	226.985313	-25.195313		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	1/16/1988	9	2572	201.75	228.170416	-26.420416		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	1/11/1989	10	2933	200.2	222.754207	-22.554207		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	10/12/1989	10	3207	201.15	233.352747	-32.202747		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/10/1990	11	3601	201.21	232.312605	-31.102605		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	12/7/1991	12	3993	202.35	231.046798	-28.696798		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/11/1992	13	4333	201.05	233.15127	-32.10127		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/18/1993	14	4705	200.6	230.151053	-29.551053		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/10/1994	15	5062	202.03	227.911959	-25.881959		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/9/1995	16	5426	200.72	230.930827	-30.210827		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/22/1996	17	5805	199.75	227.860962	-28.110962		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/13/1997	18	6161	200.7	230.203729	-29.503729		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/18/1998	19	6531	199.2	230.624425	-31.424425		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/12/1999	20	6890	198.95	232.839833	-33.889833		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	12/1/2000	21	7275	198.6	231.23992	-32.63992		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/8/2001	22	7617	199.19	229.721082	-30.531082		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/7/2002	23	7981	197.6	229.089605	-31.489605		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/7/2003	24	8346	198.61	229.967939	-31.357939		76	215

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/3/2004	25	8708	199.95	229.925559	-29.975559		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	12/9/2005	26	9109	198.55	229.930615	-31.380615		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/10/2006	27	9445	198.25	228.456219	-30.206219		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/9/2007	28	9809	198.23	228.022067	-29.792067		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/21/2008	29	10187	198.56	227.69984	-29.13984		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	12/3/2009	30	10564	200.02	226.568865	-26.548865		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/4/2010	31	10900	198.52	226.341913	-27.821913		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	10/19/2011	32	11249	196.29	224.873639	-28.583639		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/7/2012	33	11634	197.32	225.855896	-28.535896		76	215
3708701	6752202.774	19967747.66	118	142	1539654	578902	8	11/22/2013	34	12014	197.38	229.014152	-31.634152		76	215
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/19/1981	2	323	183.47	227.374406	-43.904406	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/12/1983	4	1046	185.39	227.156901	-41.766901	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/8/1984	5	1408	184.22	228.489419	-44.269419	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	1/16/1988	9	2572	185.55	225.813403	-40.263403	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	1/11/1989	10	2933	183.65	229.65467	-46.00467	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	10/12/1989	10	3207	186.33	230.452587	-44.122587	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/10/1990	11	3601	184.55	229.490992	-44.940992	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	12/7/1991	12	3993	185.65	228.350858	-42.700858	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/11/1992	13	4333	184.97	230.270464	-45.300464	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/18/1993	14	4705	184.7	227.517463	-42.817463	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/10/1994	15	5062	186.97	225.504616	-38.534616	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/9/1995	16	5426	184.29	228.306598	-44.016598	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/21/1996	17	5804	182.9	225.45352	-42.55352	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/13/1997	18	6161	186.2	227.635939	-41.435939	163	163	202
3708801	6754244.549	19965017.4	119	142	1540174	579389	8	11/18/1998	19	6531	184.2	228.002828	-43.802828	163	163	202
3708804	6754203.045	19973837.97	118	143	1539656	578904	8	4/2/1987	8	2283	205	215.880776	-10.880776	-80	-190	250
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	3/19/1982	3	443	266.82	241.138009	25.681991	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/10/1982	3	679	265.87	229.823061	36.046939	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/10/1983	4	1044	263.89	229.740377	34.149623	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/14/1984	5	1414	264.37	230.48942	33.88058	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/10/1985	6	1775	263.57	229.522874	34.047126	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	12/13/1986	7	2173	262.79	226.41256	36.37744	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/14/1987	8	2509	260.49	224.290788	36.199212	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	12/10/1988	9	2901	260.5	223.213723	37.286277	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	10/18/1989	10	3213	259	224.613403	34.386597	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/15/1990	11	3606	258.76	227.684512	31.075488	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	12/5/1991	12	3991	258	230.398075	27.601925	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/19/1992	13	4341	256.47	232.504024	23.965976	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	3/25/1993	14	4467	257.28	233.086777	24.193223	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	12/17/1993	14	4734	256.06	232.317581	23.742419	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	2/2/1995	16	5146	255.7	229.708521	25.991479	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/11/1995	16	5428	253.97	228.30744	25.66256	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/15/1996	17	5798	254.1	226.620492	27.479508	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/13/1997	18	6161	252.17	226.223031	25.946969	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/18/1998	19	6531	252.91	226.774684	26.135316	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/18/1999	20	6896	249.2	228.120811	21.079189	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/9/2000	21	7253	251.26	230.071455	21.188545	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/8/2001	22	7617	250.33	229.212212	21.117788	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/8/2002	23	7982	249.15	226.983282	22.166718	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	9/24/2003	24	8302	247.85	226.943834	20.906166	-324	-339	300

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/10/2004	25	8715	248.15	226.717272	21.432728	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	1/13/2006	27	9144	245.47	227.095185	18.374815	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/11/2006	27	9446	246.07	225.195752	20.874248	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	2/7/2008	29	9899	235.65	227.589768	8.060232	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/8/2008	29	10174	245.15	223.307993	21.842007	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/19/2009	30	10550	241.79	222.986521	18.803479	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/19/2010	31	10915	243.75	221.955466	21.794534	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	12/1/2011	32	11292	242.17	224.981332	17.188668	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/14/2012	33	11641	242.44	215.471346	26.968654	-324	-339	300
3709102	6473387.645	19943298.92	97	93	1592250	619655	9	11/14/2013	34	12006	240.2	218.310693	21.889307	-324	-339	300
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/10/1982	3	679	252.1	249.718579	2.381421	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/10/1983	4	1044	253.23	249.764417	3.465583	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/14/1984	5	1414	249.18	250.064334	-0.884334	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/10/1985	6	1775	247.52	249.762779	-2.242779	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	12/10/1988	9	2901	251.75	250.028768	1.721232	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	10/18/1989	10	3213	253.19	250.073537	3.116463	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/15/1990	11	3606	254	249.825068	4.174932	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	12/5/1991	12	3991	255.8	249.876745	5.923255	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/19/1992	13	4341	253.21	250.276205	2.933795	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	3/25/1993	14	4467	256.26	249.757215	6.502785	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	12/17/1993	14	4734	253.3	249.590439	3.709561	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	2/2/1995	16	5146	258.3	249.604829	8.695171	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/18/1998	19	6531	252.94	249.742724	3.197276	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/18/1999	20	6896	252.2	250.186112	2.013888	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/9/2000	21	7253	251.74	249.977692	1.762308	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/8/2001	22	7617	255.85	249.795677	6.054323	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/8/2002	23	7982	253.95	249.820351	4.129649	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	9/24/2003	24	8302	254.1	249.932834	4.167166	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/10/2004	25	8715	254.13	249.775917	4.354083	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/11/2006	27	9446	252.94	249.573153	3.366847	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	2/7/2008	29	9899	249.35	249.541926	-0.191926	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/8/2008	29	10174	251.85	249.541317	2.308683	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/19/2009	30	10550	250.88	249.408918	1.471082	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/14/2010	31	10910	249.55	249.360368	0.189632	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/19/2010	31	10915	250.58	249.359247	1.220753	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	12/1/2011	32	11292	247.97	248.699361	-0.729361	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/14/2012	33	11641	249.55	249.150245	0.399755	170	167	302
3709104	6473437.861	19943331.59	97	93	1356868	481428	6	11/14/2013	34	12006	249.83	249.868433	-0.038433	170	167	302
3709105	6473039.968	19945645	96	94	1449913	524434	7	3/16/1988	9	2632	261.23	256.466478	4.763522	184	182	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	3/20/1982	3	444	274.1	234.241409	39.858591		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	11/11/1982	3	680	272.22	234.143707	38.076293		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	11/11/1983	4	1045	273.12	234.477093	38.642907		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	11/14/1984	5	1414	273.37	235.600604	37.769396		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	11/7/1985	6	1772	272.55	234.574688	37.975312		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	11/7/1986	7	2137	273.71	231.181361	42.528639		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	12/30/1987	8	2555	275	228.522838	46.477162		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	12/7/1988	9	2898	271.96	229.781916	42.178084		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	10/15/1989	10	3210	272.5	231.40313	41.09687		239	330
3710302	6537581.281	19936261.7	104	103	1594729	621870	9	11/9/1990	11	3600	273.3	232.976435	40.323565		239	330
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	3/27/1982	3	451	291.85	247.792649	44.057351	97	97	417

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/11/1982	3	680	290.48	247.563782	42.916218	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/11/1983	4	1045	291.74	247.905467	43.834533	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/14/1984	5	1414	292	248.257289	43.742711	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/7/1985	6	1772	290.7	247.281898	43.418102	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	12/30/1987	8	2555	292.4	244.428768	47.971232	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	5/11/1988	9	2688	292.22	246.836537	45.383463	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	12/8/1988	9	2899	289.8	248.634375	41.165625	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	10/19/1989	10	3214	291	245.501692	45.498308	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/9/1990	11	3600	290.31	248.437676	41.872324	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	12/6/1991	12	3992	286.08	260.831954	25.248046	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/13/1992	13	4335	290.2	252.27052	37.92948	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/19/1993	14	4706	290.75	249.661953	41.088047	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	8/12/1994	15	4972	291	260.476393	30.523607	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/7/1995	16	5424	286.07	249.204859	36.865141	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/19/1996	17	5802	286.5	246.682497	39.817503	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/7/1997	18	6155	291.2	248.201026	42.998974	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/11/1998	19	6524	289.8	247.366252	42.433748	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	10/1/2000	21	7214	289.5	248.220542	41.279458	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	10/13/2001	22	7591	292.1	246.13043	45.96957	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	9/20/2002	23	7933	292.5	247.159525	45.340475	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	10/19/2003	24	8327	291	248.646583	42.353417	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	11/30/2004	25	8735	287	246.632679	40.367321	97	97	417
3710402	6520019.899	19928443.13	104	100	1362169	482878	6	12/7/2005	26	9107	258	245.806178	12.193822	97	97	417
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	3/27/1982	3	451	194	247.535785	-53.535785	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/11/1982	3	680	196	247.304127	-51.304127	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/11/1983	4	1045	189	247.648779	-58.648779	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/14/1984	5	1414	189	248.004538	-59.004538	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/7/1985	6	1772	189	247.01976	-58.01976	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	2/23/1988	9	2610	192.7	245.373706	-52.673706	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	5/10/1988	9	2687	193	246.552741	-53.552741	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	12/8/1988	9	2899	186	248.386634	-62.386634	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	10/19/1989	10	3214	188.8	245.227833	-56.427833	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/7/1995	16	5424	199.3	248.962073	-49.662073	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/19/1996	17	5802	203	246.441338	-43.441338	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/4/1997	18	6152	193	247.962815	-54.962815	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	11/11/1998	19	6524	193.3	247.137268	-53.837268	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	10/1/2000	21	7214	193.3	247.99226	-54.69226	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	10/13/2001	22	7591	201.6	245.877564	-44.277564	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	9/20/2002	23	7933	199.8	246.917897	-47.117897	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	10/19/2003	24	8327	195.3	248.418975	-53.118975	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	10/19/2004	25	8693	233.3	246.523148	-13.223148	-61	-81	419
3710403	6520201.487	19928249.05	104	100	1455277	526544	7	12/7/2005	26	9107	144	245.542916	-101.54292	-61	-81	419
3710407	6518818.08	19932036.22	103	100	1454683	526324	7	5/2/1999	20	6696	320	286.828952	33.171048	-130	-230	550
3710408	6520196.782	19928349.93	104	100	1362169	482878	6	12/26/2003	24	8395	292	270.35106	21.64894	129	129	414
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	3/20/1982	3	444	245.7	228.215521	17.484479	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/11/1983	4	1045	244.97	228.304268	16.665732	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/14/1984	5	1414	240.62	228.117085	12.502915	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/7/1985	6	1772	243.3	227.166857	16.133143	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	12/30/1987	8	2555	242.6	224.392559	18.207441	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	12/7/1988	9	2898	241.2	228.916308	12.283692	156	153	394

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	10/15/1989	10	3210	241.5	224.054637	17.445363	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/9/1990	11	3600	240.83	228.941007	11.888993	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	12/6/1991	12	3992	241.68	231.379613	10.300387	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/13/1992	13	4335	240.65	233.790366	6.859634	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/19/1993	14	4706	240.2	231.03363	9.16637	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/12/1994	15	5064	241.03	228.149518	12.880482	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/7/1995	16	5424	238.2	229.597361	8.602639	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/19/1996	17	5802	239.4	227.785516	11.614484	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/7/1997	18	6155	239.8	229.132687	10.667313	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/11/1998	19	6524	239.2	228.118966	11.081034	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/13/1999	20	6891	237.6	228.467406	9.132594	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/15/2000	21	7259	236.86	228.964035	7.895965	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/10/2001	22	7619	237.67	225.976775	11.693225	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/8/2002	23	7982	238.15	228.063916	10.086084	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/5/2003	24	8344	238.32	229.592138	8.727862	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/2/2004	25	8707	238.9	227.058115	11.841885	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	12/7/2005	26	9107	238.84	225.258441	13.581559	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/10/2006	27	9445	239.79	220.099594	19.690406	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/7/2007	28	9807	240.53	222.636517	17.893483	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/7/2008	29	10173	240.67	220.426097	20.243903	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	12/4/2009	30	10565	242.05	222.406549	19.643451	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/11/2010	31	10907	241.72	219.639345	22.080655	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/18/2011	32	11279	240.32	213.75255	26.56745	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/30/2012	33	11657	245.45	216.530613	28.919387	156	153	394
3710703	6514401.948	19917638.44	105	98	1362635	483012	6	11/20/2013	34	12012	242.2	221.888017	20.311983	156	153	394
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	4/12/2006	27	9233	295.9	325.865692	-29.965692		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	5/5/2006	27	9256	293.8	325.576816	-31.776816		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	6/2/2006	27	9284	294.6	325.241365	-30.641365		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	7/4/2006	27	9316	266	324.865617	-58.865617		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	8/2/2006	27	9345	293.4	324.567736	-31.167736		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	9/2/2006	27	9376	277	324.249311	-47.249311		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	10/3/2006	27	9407	290.6	323.949918	-33.349918		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	11/2/2006	27	9437	294.4	323.695089	-29.295089		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	12/2/2006	27	9467	296.3	323.440261	-27.140261		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	1/3/2007	28	9499	296.6	323.169325	-26.569325		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	2/2/2007	28	9529	291.8	322.940932	-31.140932		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	3/2/2007	28	9557	295.4	322.745253	-27.345253		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	4/3/2007	28	9589	286	322.557873	-36.557873		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	5/2/2007	28	9618	292.2	322.408689	-30.208689		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	6/2/2007	28	9649	293.2	322.28005	-29.08005		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	7/3/2007	28	9680	266	322.156455	-56.156455		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	8/2/2007	28	9710	283.7	322.075666	-38.375666		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	9/4/2007	28	9743	282.9	321.986798	-39.086798		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	10/2/2007	28	9771	293.6	321.921486	-28.321486		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	11/2/2007	28	9802	259	321.870232	-62.870232		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	12/4/2007	28	9834	294.5	321.817325	-27.317325		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	1/3/2008	29	9864	266.8	321.766025	-54.966025		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	2/2/2008	29	9894	293.5	321.66542	-28.16542		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	3/4/2008	29	9925	296.4	321.562092	-25.162092		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	4/2/2008	29	9954	293.2	321.466251	-28.266251		-29	571

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	5/1/2008	29	9983	295.8	321.372961	-25.572961		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	6/1/2008	29	10014	276.8	321.277049	-44.477049		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	7/1/2008	29	10044	291.3	321.184786	-29.884786		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	8/1/2008	29	10075	289.4	321.095865	-31.695865		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	9/1/2008	29	10106	281.8	321.006943	-39.206943		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	10/1/2008	29	10136	290.6	320.923849	-30.323849		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	11/1/2008	29	10167	293	320.844379	-27.844379		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	12/1/2008	29	10197	287.4	320.767472	-33.367472		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	1/1/2009	30	10228	293	320.688001	-27.688001		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	2/1/2009	30	10259	294.2	320.243098	-26.043098		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	4/2/2009	30	10319	293.2	319.470881	-26.270881		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	5/2/2009	30	10349	294.1	319.139633	-25.039633		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	6/2/2009	30	10380	290.7	318.846701	-28.146701		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	7/2/2009	30	10410	288.2	318.570371	-30.370371		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	8/4/2009	30	10443	291.9	318.33791	-26.43791		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	10/2/2009	30	10502	286.6	317.940995	-31.340995		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	11/3/2009	30	10534	294.8	317.775493	-22.975493		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	12/3/2009	30	10564	295.6	317.620335	-22.020335		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	1/13/2010	31	10605	292.6	317.451419	-24.851419		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	2/4/2010	31	10627	297	317.423904	-20.423904		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	3/3/2010	31	10654	297.4	317.385832	-19.985832		-29	571
3711204	6560171.059	19948689.77	104	108	1455312	526579	7	4/6/2010	31	10688	295.4	317.329948	-21.929948		-29	571
3711404	6549213.076	19923633.12	107	104	1533887	573551	8	12/15/1988	9	2906	280.73	253.387799	27.342201	-200	-220	440
3711504	6573261.846	19934516.64	108	109	1364173	483406	6	3/27/1982	3	451	462.42	352.052646	110.36735		438	480
3711504	6573261.846	19934516.64	108	109	1364173	483406	6	11/11/1982	3	680	462.07	351.388753	110.68125		438	480
3711504	6573261.846	19934516.64	108	109	1364173	483406	6	11/11/1983	4	1045	462.63	352.032399	110.5976		438	480
3711504	6573261.846	19934516.64	108	109	1364173	483406	6	11/14/1984	5	1414	463.17	356.456193	106.71381		438	480
3711504	6573261.846	19934516.64	108	109	1364173	483406	6	12/30/1987	8	2555	463.67	345.818273	117.85173		438	480
3711504	6573261.846	19934516.64	108	109	1364173	483406	6	12/7/1988	9	2898	460.56	354.244772	106.31523		438	480
3711901	6575097.417	19914328.47	111	108	1596480	623388	9	6/7/1987	8	2349	225	220.488238	4.511762	-44	-44	440
3711908	6575285.687	19912208.64	111	107	1596479	623387	9	1/29/1992	13	4046	199	209.191686	-10.191686	-115	-115	450
3712303	6621083.128	19945372.27	110	118	1458421	527805	7	4/21/1981	2	111	337.9	333.811077	4.088923		334	380
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	3/27/1982	3	451	262.9	231.954643	30.945357	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/11/1982	3	680	265.65	232.215543	33.434457	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/11/1983	4	1045	281.53	232.49363	49.03637	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/14/1984	5	1414	303.59	231.899324	71.690676	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/7/1985	6	1772	309.2	231.850544	77.349456	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/7/1986	7	2137	313.43	227.873914	85.556086	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	12/30/1987	8	2555	302.75	225.366526	77.383474	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	12/7/1988	9	2898	293.69	228.425666	65.264334	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	10/15/1989	10	3210	297.3	230.315942	66.984058	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	12/6/1991	12	3992	317.35	231.9202	85.4298	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/12/1992	13	4334	316.55	233.746107	82.803893	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/19/1993	14	4706	315.9	233.82377	82.07623	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/11/1994	15	5063	315.65	231.295214	84.354786	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/7/1995	16	5424	305.73	230.266509	75.463491	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/20/1996	17	5803	300.5	228.63955	71.86045	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/14/1997	18	6162	299.5	227.98489	71.51511	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/11/1998	19	6524	300.3	229.626073	70.673927	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/12/1999	20	6890	300.8	231.884931	68.915069	107	107	480

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/8/2002	23	7982	287.65	228.908488	58.741512	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/6/2003	24	8345	288.11	228.631201	59.478799	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	12/6/2005	26	9106	286.97	229.683542	57.286458	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/10/2006	27	9445	284.57	227.547725	57.022275	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/7/2007	28	9807	252.74	226.789406	25.950594	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/7/2008	29	10173	261.6	225.785887	35.814113	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	12/4/2009	30	10565	265.3	225.690372	39.609628	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/11/2010	31	10907	282.5	224.193625	58.306375	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/18/2011	32	11279	272.39	220.044731	52.345269	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/30/2012	33	11657	273.45	218.586174	54.863826	107	107	480
3712804	6606495.689	19923056.01	112	114	1596729	623600	9	11/20/2013	34	12012	264.29	221.767015	42.522985	107	107	480
3712805	6609857.741	19919571.37	113	114	1596975	623811	9	11/14/2000	21	7258	266.7	241.068873	25.631127	72	67	452
3712806	6602278.253	19910581.4	114	112	1537306	576722	8	9/23/1988	9	2823	237.92	224.643876	13.276124	-468	-470	400
3712806	6602278.253	19910581.4	114	112	1537306	576722	8	12/8/1988	9	2899	235.63	224.619552	11.010448	-468	-470	400
3712903	6619833.019	19920165.67	114	116	1460483	528550	7	5/18/1988	9	2695	319.87	302.610938	17.259062		205	375
3712909	6618349.494	19918774.18	114	115	1537315	576731	8	2/26/2007	28	9553	230	227.257605	2.742395	-294	-304	530
3713104	6631258.723	19952165.27	110	120	1535448	574988	8	7/14/1981	2	195	278.2	256.90805	21.29195		15	380
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	5/2/2009	30	10349	278.3	329.114109	-50.814109		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	9/2/2009	30	10472	276.9	328.389714	-51.489714		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	11/7/2009	30	10538	280.3	328.10724	-47.80724		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	3/10/2010	31	10661	279.5	327.83804	-48.33804		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	5/2/2010	31	10714	277.9	327.777831	-49.877831		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	9/2/2010	31	10837	276.1	327.642108	-51.542108		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	12/2/2010	31	10928	275.3	327.546194	-52.246194		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	1/7/2011	32	10964	276.4	327.45987	-51.05987		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	4/19/2011	32	11066	275.3	326.490248	-51.190248		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	7/28/2011	32	11166	272.7	325.753359	-53.053359		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	11/29/2011	32	11290	273.7	324.948662	-51.248662		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	3/28/2012	33	11410	275.5	325.35162	-49.85162		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	6/26/2012	33	11500	276	325.72069	-49.72069		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	9/14/2012	33	11580	271.4	325.961096	-54.561096		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	12/22/2012	33	11679	271.8	326.206474	-54.406474		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	3/27/2013	34	11774	275.7	328.128719	-52.428719		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	6/25/2013	34	11864	274.1	329.453811	-55.353811		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	9/20/2013	34	11951	268.6	330.389578	-61.789578		-72	348
3713105	6631329.23	19949025.41	110	120	1458426	527810	7	12/19/2013	34	12041	273.4	331.092772	-57.692772		-72	348
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	5/2/2009	30	10349	278.4	330.70546	-52.30546		-90	330
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	9/2/2009	30	10472	278.8	330.009363	-51.209363		-90	330
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	3/10/2010	31	10661	278.4	329.521437	-51.121437		-90	330
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	12/2/2010	31	10928	275.6	329.26008	-53.66008		-90	330
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	1/7/2011	32	10964	276.4	329.172181	-52.772181		-90	330
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	4/19/2011	32	11066	276.6	328.169023	-51.569023		-90	330
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	7/28/2011	32	11166	274.6	327.469896	-52.869896		-90	330
3713106	6633442.866	19951564.41	110	121	1458435	527819	7	11/29/2011	32	11290	273.2	326.715369	-53.515369		-90	330
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	5/2/2009	30	10349	262.1	234.66745	27.43255		-71	309
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	9/2/2009	30	10472	255.7	234.570182	21.129818		-71	309
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	3/10/2010	31	10661	251.4	232.414257	18.985743		-71	309
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	12/2/2010	31	10928	257.5	231.03058	26.46942		-71	309
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	1/7/2011	32	10964	259.2	230.682811	28.517189		-71	309
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	4/19/2011	32	11066	260.3	227.552884	32.747116		-71	309

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	7/29/2011	32	11167	252.9	226.321174	26.578826		-71	309
3713107	6634747.523	19946154.52	111	120	1535865	575376	8	11/29/2011	32	11290	255.1	225.063059	30.036941		-71	309
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	6/27/1986	7	2004	306.55	319.143104	-12.593104		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/11/1986	7	2141	306.45	317.47089	-11.02089		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	1/16/1988	9	2572	306.43	318.825923	-12.395923		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	1/11/1989	10	2933	305.45	325.943588	-20.493588		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	10/13/1989	10	3208	303.53	327.207236	-23.677236		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/9/1990	11	3600	304.41	324.68841	-20.27841		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	12/8/1991	12	3994	305.36	323.432806	-18.072806		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/12/1992	13	4334	304.95	327.468498	-22.518498		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/18/1993	14	4705	304.6	322.524046	-17.924046		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/11/1994	15	5063	304.86	319.447837	-14.587837		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/9/1995	16	5426	303.9	324.646769	-20.746769		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/21/1996	17	5804	301.85	319.766783	-17.916783		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/14/1997	18	6162	302.5	323.584421	-21.084421		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/11/1998	19	6524	301.75	323.77184	-22.02184		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/12/1999	20	6890	301.21	327.688511	-26.478511		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/8/2001	22	7617	301.63	323.887364	-22.257364		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/6/2002	23	7980	302	323.258265	-21.258265		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/6/2003	24	8345	301.31	324.703882	-23.393882		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	12/9/2005	26	9109	299.91	324.566945	-24.656945		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/9/2006	27	9444	299.11	322.737249	-23.627249		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/9/2007	28	9809	299.28	321.96015	-22.68015		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/21/2008	29	10187	298.9	321.666216	-22.766216		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	12/4/2009	30	10565	299.6	319.474603	-19.874603		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/5/2010	31	10901	296.35	319.259774	-22.909774		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	10/19/2011	32	11249	294.38	317.387231	-23.007231		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/8/2012	33	11635	295.32	318.608848	-23.288848		104	394
3713302	6661828.101	19952589.71	113	125	1459928	528383	7	11/22/2013	34	12014	296.33	323.416058	-27.086058		104	394
3713402	6629315.257	19939292.68	112	119	1536311	575789	8	5/12/1988	9	2689	261.4	237.225148	24.174852	57	51	390
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	3/26/1982	3	450	382.26	320.679791	61.580209		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/11/1982	3	680	384.67	320.241873	64.428127		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/11/1983	4	1045	385.03	320.66274	64.36726		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/14/1984	5	1414	384.05	324.137083	59.912917		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	12/30/1987	8	2555	386.43	315.677686	70.752314		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	12/8/1988	9	2899	385.02	323.210049	61.809951		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	10/15/1989	10	3210	383.42	325.398	58.022		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/9/1990	11	3600	383.4	323.70498	59.69502		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	12/6/1991	12	3992	386	322.836281	63.163719		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/12/1992	13	4334	383.1	327.060338	56.039662		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/19/1993	14	4706	385.3	322.827621	62.472379		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/11/1994	15	5063	385.97	318.905114	67.064886		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/7/1995	16	5424	382.67	323.325369	59.344631		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/20/1996	17	5803	384.28	318.83797	65.44203		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/14/1997	18	6162	384.89	322.29071	62.59929		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/11/1998	19	6524	385.15	322.802619	62.347381		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/12/1999	20	6890	383.6	326.564902	57.035098		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/14/2000	21	7258	384.38	325.291326	59.088674		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/10/2001	22	7619	383.67	323.036056	60.633944		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/8/2002	23	7982	383.65	322.085543	61.564457		368	391

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/6/2003	24	8345	383.24	323.68244	59.55756		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/2/2004	25	8707	387.35	323.544377	63.805623		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	12/7/2005	26	9107	382.59	323.531586	59.058414		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/10/2006	27	9445	384.82	321.294589	63.525411		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/7/2007	28	9807	383.19	319.957658	63.232342		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/7/2008	29	10173	382.79	319.413724	63.376276		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	12/4/2009	30	10565	387.12	317.127511	69.992489		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/11/2010	31	10907	381.85	316.602352	65.247648		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/18/2011	32	11279	379.93	313.881647	66.048353		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/30/2012	33	11657	381.54	314.66639	66.87361		368	391
3713403	6628025.223	19937504.86	112	118	1459381	528187	7	11/20/2013	34	12012	382.6	319.86297	62.73703		368	391
3713404	6634262.255	19940350.72	112	120	1459385	528191	7	5/12/1988	9	2689	166	273.754567	-107.75457	30	20	376
3713407	6631439.828	19939905.66	112	119	1459382	528188	7	3/17/1981	2	76	248	299.883909	-51.883909	-21	-25	371
3713408	6629234.244	19939187.17	112	119	1459382	528188	7	5/1/1998	19	6330	265	323.781961	-58.781961	60	50	390
3713408	6629234.244	19939187.17	112	119	1459382	528188	7	7/23/2003	24	8239	229.65	324.34102	-94.69102	60	50	390
3713603	6656730.456	19930734.22	116	123	1538439	577777	8	11/20/1981	2	324	300.87	243.519164	57.350836	222	222	340
3713603	6656730.456	19930734.22	116	123	1538439	577777	8	11/23/1982	3	692	300.62	243.720437	56.899563	222	222	340
3713603	6656730.456	19930734.22	116	123	1538439	577777	8	11/12/1983	4	1046	300.4	243.710122	56.689878	222	222	340
3713603	6656730.456	19930734.22	116	123	1538439	577777	8	11/8/1985	6	1773	301.3	243.006285	58.293715	222	222	340
3713603	6656730.456	19930734.22	116	123	1538439	577777	8	11/11/1986	7	2141	301.21	238.430711	62.779289	222	222	340
3713603	6656730.456	19930734.22	116	123	1538439	577777	8	1/16/1988	9	2572	301.8	237.737615	64.062385	222	222	340
3713603	6656730.456	19930734.22	116	123	1538439	577777	8	1/12/1989	10	2934	299.75	242.525599	57.224401	222	222	340
3713604	6657194.682	19940288.44	114	124	1537327	576743	8	4/30/1986	7	1946	193.1	219.505982	-26.405982	-85	-85	402
3713605	6657366.791	19940297.17	114	124	1537327	576743	8	6/16/1992	13	4185	204	225.524404	-21.524404	-316	-321	404
3713804	6647938.442	19911836.35	118	119	1539584	578832	8	5/22/1981	2	142	162	209.735491	-47.735491	-200	-200	342
3713805	6647953.716	19911533.06	118	119	1539584	578832	8	9/12/2000	21	7195	223	226.435832	-3.435832	-143	-183	347
3714204	6677383.039	19955107.57	114	128	1537331	576747	8	6/27/2006	27	9309	218	232.386654	-14.386654	-358	-367	396
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/19/1981	2	323	394.91	326.07145	68.83855	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/23/1982	3	692	394.48	325.0566	69.4234	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/12/1983	4	1046	395.6	325.835816	69.764184	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/8/1984	5	1408	395.71	330.700768	65.009232	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	5/2/1986	7	1948	396.48	322.654937	73.825063	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/11/1986	7	2141	396.56	319.257429	77.302571	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	1/16/1988	9	2572	399.7	321.824222	77.875778	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	1/12/1989	10	2934	397.48	331.477065	66.002935	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	10/13/1989	10	3208	396.91	332.990087	63.919913	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/11/1990	11	3602	396.76	329.467111	67.292889	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	12/8/1991	12	3994	397.35	327.568482	69.781518	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/12/1992	13	4334	398.35	333.462598	64.887402	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/17/1993	14	4704	398.7	326.125006	72.574994	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/11/1994	15	5063	398.52	321.960401	76.559599	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/9/1995	16	5426	398.68	329.548832	69.131168	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/21/1996	17	5804	400.5	322.428178	78.071822	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/14/1997	18	6162	399.1	328.176911	70.923089	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/11/1998	19	6524	399.84	328.082302	71.757698	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/12/1999	20	6890	399.02	333.643668	65.376332	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	12/1/2000	21	7275	397.1	330.765488	66.334512	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/8/2001	22	7617	399.14	327.930071	71.209929	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/6/2002	23	7980	399.5	327.190088	72.309912	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/6/2003	24	8345	399.22	329.512426	69.707574	377	377	435

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/4/2004	25	8709	399.8	328.866215	70.933785	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	12/9/2005	26	9109	399.58	329.15232	70.42768	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/10/2006	27	9445	398.82	326.502061	72.317939	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/9/2007	28	9809	398.57	325.444151	73.125849	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/21/2008	29	10187	398.1	325.115072	72.984928	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	12/3/2009	30	10564	398.07	322.288381	75.781619	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/5/2010	31	10901	398.05	322.300153	75.749847	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	10/19/2011	32	11249	396.79	319.934858	76.855142	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/7/2012	33	11634	396.45	321.923273	74.526727	377	377	435
3714501	6677788.178	19938803.27	116	127	1461809	529057	7	11/22/2013	34	12014	395.3	328.185547	67.114453	377	377	435
3714502	6688361.892	19941070.8	117	129	1538991	578284	8	5/2/1986	7	1948	263	255.769798	7.230202	-91	-200	410
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/20/1981	2	324	311.55	289.064545	22.485455	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/23/1982	3	692	315.32	288.222214	27.097786	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/12/1983	4	1046	316.32	288.890209	27.429791	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/8/1984	5	1408	322.66	293.145979	29.514021	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/8/1985	6	1773	323.86	290.084238	33.775762	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/11/1986	7	2141	325.84	283.467373	42.372627	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	1/16/1988	9	2572	331.9	285.83439	46.06561	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	10/13/1989	10	3208	318.82	295.158364	23.661636	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/11/1990	11	3602	314.53	292.049327	22.480673	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	12/8/1991	12	3994	332.9	290.414767	42.485233	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/12/1992	13	4334	323.15	295.647775	27.502225	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/17/1993	14	4704	324.9	289.130794	35.769206	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/11/1994	15	5063	327.35	285.668958	41.681042	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/9/1995	16	5426	318.15	292.181693	25.968307	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/21/1996	17	5804	312.2	286.002293	26.197707	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/14/1997	18	6162	317.9	291.029404	26.870596	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/18/1998	19	6531	323.9	290.846454	33.053546	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/12/1999	20	6890	312.15	295.792706	16.357294	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	12/1/2000	21	7275	310.1	298.255919	11.844081	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/8/2001	22	7617	310.9	290.660244	20.239756	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/6/2002	23	7980	318.2	290.062896	28.137104	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/7/2003	24	8346	318.28	292.07593	26.20407	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/4/2004	25	8709	315.65	291.51772	24.13228	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	12/9/2005	26	9109	311.5	291.743803	19.756197	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/9/2006	27	9444	316.14	289.395703	26.744297	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/9/2007	28	9809	309.75	288.54294	21.20706	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/21/2008	29	10187	318.14	288.227739	29.912261	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	12/3/2009	30	10564	321.7	285.924605	35.775395	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/5/2010	31	10901	321.53	286.008875	35.521125	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	10/19/2011	32	11249	319.98	284.09947	35.88053	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/7/2012	33	11634	318.92	285.767172	33.152828	292	292	366
3714701	6668646.428	19913493.65	120	123	1464262	530001	7	11/22/2013	34	12014	319.26	290.970661	28.289339	292	292	366
3714703	6675759.26	19926227.35	118	125	1463156	529551	7	3/12/1983	4	801	258	297.893501	-39.893501		133	388
3714803	6689569.437	19915986.31	121	127	1464789	530305	7	3/23/1985	6	1543	415	337.084772	77.915228	315	315	550
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	6/1/1985	6	1613	293	307.351902	-14.351902		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	6/28/1986	7	2005	297.89	300.250184	-2.360184		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	11/11/1986	7	2141	294.68	297.981228	-3.301228		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	1/16/1988	9	2572	294.5	300.0613	-5.5613		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	10/13/1989	10	3208	293.2	311.28768	-18.08768		209	383

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	11/11/1990	11	3602	292.13	308.337149	-16.207149		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	12/8/1991	12	3994	294.4	306.441966	-12.041966		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	11/12/1992	13	4334	292.85	311.643928	-18.793928		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	11/17/1993	14	4704	292.7	305.1532	-12.4532		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	11/11/1994	15	5063	297.97	300.381259	-2.411259		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	11/9/1995	16	5426	296.07	307.752236	-11.682236		209	383
3714901	6694958.403	19920218.82	121	128	1464793	530309	7	11/21/1996	17	5804	292.6	300.895245	-8.295245		209	383
3715102	6708924.797	19956739.65	116	134	1538473	577811	8	4/30/1986	7	1946	241.53	245.925793	-4.395793	-19	-29	347
3715103	6712498.546	19946076.33	118	133	1539604	578852	8	1/1/1981	2	1	222	249.538953	-27.538953		59	324
3715103	6712498.546	19946076.33	118	133	1539604	578852	8	4/30/1986	7	1946	271.64	248.200595	23.439405		59	324
3715103	6712498.546	19946076.33	118	133	1539604	578852	8	11/11/1986	7	2141	271.12	246.554076	24.565924		59	324
3715103	6712498.546	19946076.33	118	133	1539604	578852	8	1/16/1988	9	2572	270.25	246.084298	24.165702		59	324
3715103	6712498.546	19946076.33	118	133	1539604	578852	8	1/12/1989	10	2934	270.3	250.149084	20.150916		59	324
3715103	6712498.546	19946076.33	118	133	1539604	578852	8	10/13/1989	10	3208	270.48	251.914939	18.565061		59	324
3715104	6713324.844	19958287.85	116	135	1538477	577815	8	4/17/1982	3	472	236	245.313208	-9.313208	84	84	290
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	7/19/1985	6	1661	227	249.650258	-22.650258	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	4/30/1986	7	1946	242.6	248.454357	-5.854357	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/12/1986	7	2142	243.65	247.027738	-3.377738	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	1/16/1988	9	2572	243.2	247.16259	-3.96259	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	1/12/1989	10	2934	241.2	251.014184	-9.814184	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	10/13/1989	10	3208	240.75	252.449197	-11.699197	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/10/1990	11	3601	237.1	251.781038	-14.681038	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	12/8/1991	12	3994	242.3	250.536959	-8.236959	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/12/1992	13	4334	241.7	251.821353	-10.121353	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/18/1993	14	4705	238.6	249.54218	-10.94218	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/11/1994	15	5063	242.48	246.907271	-4.427271	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/9/1995	16	5426	241.38	248.874719	-7.494719	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/22/1996	17	5805	241.4	246.03094	-4.63094	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/14/1997	18	6162	242.3	247.650046	-5.350046	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/11/1998	19	6524	241.2	247.800676	-6.600676	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/12/1999	20	6890	232.12	244.753306	-12.633306	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	12/1/2000	21	7275	238.95	249.161973	-10.211973	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/9/2001	22	7618	232.16	247.748858	-15.588858	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/7/2002	23	7981	253.9	246.570379	7.329621	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/7/2003	24	8346	231.46	246.895679	-15.435679	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/10/2006	27	9445	237.53	245.173919	-7.643919	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/9/2007	28	9809	230.82	244.800951	-13.980951	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/21/2008	29	10187	238.2	244.2551	-6.0551	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	12/3/2009	30	10564	239.42	243.478746	-4.058746	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/4/2010	31	10900	226	242.823824	-16.823824	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/7/2012	33	11634	234.78	240.842053	-6.062053	65	65	295
3715105	6712733.93	19958054.18	116	134	1538474	577812	8	11/22/2013	34	12014	234.46	244.287853	-9.827853	65	65	295
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/18/1981	2	322	344.05	315.587081	28.462919	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/23/1982	3	692	344.17	314.684545	29.485455	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/12/1983	4	1046	345.17	315.157542	30.012458	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/8/1984	5	1408	344.8	318.483414	26.316586	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/11/1986	7	2141	346.8	309.715593	37.084407	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	1/16/1988	9	2572	347	310.6152	36.3848	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	1/12/1989	10	2934	344.48	318.414195	26.065805	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	10/13/1989	10	3208	345.28	319.627086	25.652914	334	334	382

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/11/1990	11	3602	344.82	317.498368	27.321632	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	12/8/1991	12	3994	346.15	315.967528	30.182472	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/12/1992	13	4334	345.75	319.600979	26.149021	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/18/1993	14	4705	344.8	315.002648	29.797352	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/11/1994	15	5063	346.01	310.465894	35.544106	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/9/1995	16	5426	345.53	316.150872	29.379128	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/22/1996	17	5805	344.2	310.826176	33.373824	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/14/1997	18	6162	345.1	314.755178	30.344822	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/11/1998	19	6524	344.9	315.312726	29.587274	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/12/1999	20	6890	345.25	318.961991	26.288009	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	12/1/2000	21	7275	344.4	317.854664	26.545336	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/8/2001	22	7617	345.17	316.113333	29.056667	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/7/2002	23	7981	345.6	315.342704	30.257296	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/7/2003	24	8346	345.4	316.998606	28.401394	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/4/2004	25	8709	346.95	316.83418	30.11582	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	12/9/2005	26	9109	345.48	316.906063	28.573937	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/10/2006	27	9445	344.71	314.540963	30.169037	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/9/2007	28	9809	344.94	313.779033	31.160967	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/21/2008	29	10187	344.68	313.202513	31.477487	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	12/3/2009	30	10564	344.98	311.119613	33.860387	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/5/2010	31	10901	344.75	310.592485	34.157515	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	10/19/2011	32	11249	342.3	308.104448	34.195552	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/7/2012	33	11634	343.47	309.695948	33.774052	334	334	382
3715401	6705665.139	19936593.39	119	131	1463804	529818	7	11/22/2013	34	12014	343.82	315.564975	28.255025	334	334	382
3715501	6719451.247	19930216.08	122	133	1599337	625544	9	11/18/1981	2	322	312.8	233.401504	79.398496	305	305	340
3715501	6719451.247	19930216.08	122	133	1599337	625544	9	11/24/1982	3	693	311.9	233.221486	78.678514	305	305	340
3715503	6719501.364	19932550.68	121	133	1599100	625374	9	11/12/1981	2	316	248	234.019604	13.980396	28	28	368
3715503	6719501.364	19932550.68	121	133	1599100	625374	9	5/1/1986	7	1947	264.29	233.605474	30.684526	28	28	368
3715503	6719501.364	19932550.68	121	133	1599100	625374	9	1/16/1988	9	2572	263.9	231.046401	32.853599	28	28	368
3715503	6719501.364	19932550.68	121	133	1599100	625374	9	1/12/1989	10	2934	261	233.79211	27.20789	28	28	368
3715503	6719501.364	19932550.68	121	133	1599100	625374	9	11/10/1990	11	3601	260.41	235.200219	25.209781	28	28	368
3715503	6719501.364	19932550.68	121	133	1599100	625374	9	12/8/1991	12	3994	261.1	234.508291	26.591709	28	28	368
3715503	6719501.364	19932550.68	121	133	1599100	625374	9	11/12/1992	13	4334	260.45	234.633524	25.816476	28	28	368
3715601	6731968.005	19939798.74	121	136	1540945	580094	8	5/17/1981	2	137	230	239.174369	-9.174369	-140	-162	310
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/19/1981	2	323	222.26	226.029062	-3.769062	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/12/1983	4	1046	229.72	225.903427	3.816573	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/8/1984	5	1408	230.89	226.929126	3.960874	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/12/1986	7	2142	229.85	223.857521	5.992479	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	1/16/1988	9	2572	233.85	224.901712	8.948288	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	1/11/1989	10	2933	225.06	227.803495	-2.743495	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	10/12/1989	10	3207	232.4	228.296564	4.103436	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/10/1990	11	3601	229.14	227.506661	1.633339	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	12/8/1991	12	3994	231.4	226.679945	4.720055	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/11/1992	13	4333	231.15	228.200427	2.949573	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/18/1993	14	4705	231.1	225.986025	5.113975	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/10/1994	15	5062	237.09	224.526545	12.563455	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/9/1995	16	5426	229.67	226.837034	2.832966	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/22/1996	17	5805	224.75	224.445331	0.304669	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/13/1997	18	6161	231.95	226.30832	5.64168	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/18/1998	19	6531	231.9	226.499604	5.400396	186	186	245

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	12/1/2000	21	7275	230.35	226.820466	3.529534	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/8/2001	22	7617	232.83	225.837681	6.992319	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/7/2002	23	7981	234.65	225.464171	9.185829	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/7/2003	24	8346	229.58	226.133525	3.446475	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/3/2004	25	8708	231.85	226.036711	5.813289	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	12/9/2005	26	9109	228.31	226.050429	2.259571	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/10/2006	27	9445	231.09	224.968342	6.121658	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/9/2007	28	9809	232.32	224.723029	7.596971	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/21/2008	29	10187	228.03	224.498103	3.531897	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	12/3/2009	30	10564	240.9	223.66456	17.23544	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/4/2010	31	10900	231.62	223.531138	8.088862	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	10/19/2011	32	11249	225.7	222.350062	3.349938	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/7/2012	33	11634	230.82	223.15689	7.66311	186	186	245
3716201	6754021.881	19957906.83	120	141	1540578	579762	8	11/22/2013	34	12014	230.22	225.48599	4.73401	186	186	245
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/19/1981	2	323	214.29	205.366892	8.923108	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/24/1982	3	693	216.52	205.179926	11.340074	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/12/1983	4	1046	217.37	205.320283	12.049717	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/8/1984	5	1408	218.32	205.943392	12.376608	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	4/29/1986	7	1945	217.57	204.571712	12.998288	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/12/1986	7	2142	217.22	204.133239	13.086761	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	1/16/1988	9	2572	217.2	204.972792	12.227208	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	1/12/1989	10	2934	217.3	206.650589	10.649411	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	10/12/1989	10	3207	217.06	206.849796	10.210204	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/10/1990	11	3601	215.75	206.271198	9.478802	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	12/7/1991	12	3993	219.75	205.779803	13.970197	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/11/1992	13	4333	217.6	206.828133	10.771867	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/18/1993	14	4705	218	205.283972	12.716028	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/10/1994	15	5062	219.08	204.54048	14.53952	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/9/1995	16	5426	216.5	206.000499	10.499501	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/21/1996	17	5804	216.7	204.445144	12.254856	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/14/1997	18	6162	218.78	205.691121	13.088879	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/8/2001	22	7617	217.64	205.17125	12.46875	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/6/2002	23	7980	220.2	205.012746	15.187254	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/7/2003	24	8346	217.8	205.441113	12.358887	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/4/2004	25	8709	219.9	205.365221	14.534779	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	12/11/2005	26	9111	218.05	205.358498	12.691502	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/10/2006	27	9445	217.32	204.702505	12.617495	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/9/2007	28	9809	217.32	204.651809	12.668191	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/21/2008	29	10187	217.68	204.534873	13.145127	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	12/3/2009	30	10564	219.75	204.108021	15.641979	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/4/2010	31	10900	216.81	204.073298	12.736702	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	10/19/2011	32	11249	214.18	203.507177	10.672823	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/7/2012	33	11634	216.8	204.026715	12.773285	205	205	230
3716302	6777021.442	19948598.6	124	144	1542286	581337	8	11/21/2013	34	12013	216.75	205.234024	11.515976	205	205	230
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/19/1981	2	323	228.75	223.614618	5.135382	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/24/1982	3	693	231.95	223.389598	8.560402	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/12/1983	4	1046	227.83	223.439684	4.390316	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/8/1984	5	1408	228.47	223.766897	4.703103	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/8/1985	6	1773	234.35	223.849934	10.500066	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/12/1986	7	2142	232.4	222.095353	10.304647	198	198	240

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	1/16/1988	9	2572	235.6	221.539855	14.060145	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	1/12/1989	10	2934	231.62	223.912139	7.707861	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	10/12/1989	10	3207	230.74	225.009536	5.730464	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/10/1990	11	3601	229.48	224.927609	4.552391	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	12/8/1991	12	3994	236.45	224.235538	12.214462	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/12/1992	13	4334	232.55	224.859204	7.690796	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/18/1993	14	4705	232.1	224.103013	7.996987	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/10/1994	15	5062	236.22	222.426661	13.793339	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/9/1995	16	5426	230.05	223.299115	6.750885	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/21/1996	17	5804	229.4	222.155515	7.244485	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/13/1997	18	6161	233.77	222.781678	10.988322	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/18/1998	19	6531	236.1	223.44696	12.65304	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/11/1999	20	6889	230.44	224.624397	5.815603	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/8/2001	22	7617	231.02	223.634064	7.385936	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/6/2002	23	7980	236.85	222.903964	13.946036	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/6/2003	24	8345	230.1	223.140702	6.959298	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/4/2004	25	8709	235.75	223.225775	12.524225	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	12/11/2005	26	9111	230.6	223.152182	7.447818	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/10/2006	27	9445	234.49	222.206578	12.283422	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/9/2007	28	9809	230.88	221.621221	9.258779	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/21/2008	29	10187	229.94	221.202105	8.737895	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	12/3/2009	30	10564	236.02	220.500832	15.519168	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/4/2010	31	10900	228.87	220.022705	8.847295	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	10/19/2011	32	11249	226.9	218.785908	8.114092	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/7/2012	33	11634	229.67	218.569818	11.100182	198	198	240
3716701	6746834.256	19927810.13	125	137	1600067	626065	9	11/21/2013	34	12013	228.13	220.533516	7.596484	198	198	240
3717306	6510105.102	19902435.89	107	96	1363536	483259	6	7/2/1988	9	2740	206	203.991266	2.008734	-58	-58	442
3717307	6510100.42	19902537.13	107	96	1363536	483259	6	1/21/1989	10	2943	207	204.982558	2.017442	-58	-58	442
3717907	6509275.668	19871884.22	112	93	1156278	422268	4	4/10/2000	21	7040	342.1	322.007949	20.092051		325	350
3717908	6506776.559	19858691.43	114	91	1367548	484306	6	10/22/2008	29	10157	140	128.843795	11.156205	-220	-238	358
3717909	6506690.307	19858687.45	114	91	1460422	528489	7	10/22/2008	29	10157	144	130.880317	13.119683	-423	-433	357
3718104	6521410.762	19896777.43	109	97	1154047	421410	4	9/13/1993	14	4639	383.4	392.43622	-9.03622		370	420
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	3/27/1982	3	451	319.6	193.701661	125.89834	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/11/1982	3	680	318.6	230.642855	87.957145	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/11/1983	4	1045	321.14	193.739771	127.40023	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/14/1984	5	1414	318.51	194.3909	124.1191	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/7/1985	6	1772	321.35	192.389718	128.96028	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/7/1986	7	2137	321.13	185.203251	135.92675	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	12/30/1987	8	2555	320.05	183.65627	136.39373	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	12/9/1988	9	2900	320.04	195.019858	125.02014	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	10/15/1989	10	3210	320.16	185.40511	134.75489	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/9/1990	11	3600	319.57	195.8911	123.6789	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	12/6/1991	12	3992	320.97	201.994396	118.9756	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/13/1992	13	4335	322.25	209.032004	113.218	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/19/1993	14	4706	320.6	202.006428	118.59357	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/7/1995	16	5424	322.52	197.161624	125.35838	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/20/1996	17	5803	321.45	194.344226	127.10577	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/11/1998	19	6524	322.2	197.067458	125.13254	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/12/1999	20	6890	321.6	198.502292	123.09771	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	12/6/2005	26	9106	324.4	191.86696	132.53304	114	105	439

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/7/2007	28	9807	325.28	183.582476	141.69752	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/6/2008	29	10172	322.5	179.501561	142.99844	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/11/2010	31	10907	325.2	176.981528	148.21847	114	105	439
3719301	6583332.904	19895666.67	115	107	1368206	484455	6	11/20/2013	34	12012	323.65	180.404739	143.24526	114	105	439
3719401	6562306.641	19884212.23	115	103	1368202	484451	6	5/11/1988	9	2688	194.11	165.373368	28.736632	-55	-55	525
3719406	6556528.124	19880489.27	115	101	1368200	484449	6	7/14/2004	25	8596	182	166.480091	15.519909	-74	-74	546
3719803	6566767.849	19873983.67	117	102	1369506	484701	6	4/1/1999	20	6665	156	135.856423	20.143577	-181	-181	479
3719803	6566767.849	19873983.67	117	102	1369506	484701	6	7/25/2003	24	8241	96.55	116.665896	-20.115896	-181	-181	479
3720105	6593487.158	19896261.63	116	109	1461694	528942	7	9/23/1988	9	2823	165.52	189.717662	-24.197662	-223	-233	427
3720105	6593487.158	19896261.63	116	109	1461694	528942	7	12/8/1988	9	2899	176.77	194.581483	-17.811483	-223	-233	427
3720106	6591228.769	19896557.11	115	109	1597516	624231	9	9/23/1988	9	2823	160.07	187.415428	-27.345428	-175	-275	395
3720106	6591228.769	19896557.11	115	109	1597516	624231	9	12/8/1988	9	2899	169.9	190.803235	-20.903235	-175	-275	395
3720404	6596937.76	19885683.32	118	109	1463071	529466	7	4/6/2002	23	7766	169	172.431598	-3.431598	-212	-212	388
3720404	6596937.76	19885683.32	118	109	1463071	529466	7	7/24/2003	24	8240	157.38	169.066066	-11.686066	-212	-212	388
3720501	6608769.54	19878557.42	120	110	1464191	529930	7	5/13/1988	9	2690	205.34	183.053432	22.286568	-230	-235	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	3/26/1982	3	450	218.41	155.644476	62.765524		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/11/1982	3	680	217.27	155.013012	62.256988		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/11/1983	4	1045	214.98	173.684957	41.295043		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/14/1984	5	1414	216.15	154.456979	61.693021		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	12/30/1987	8	2555	203.93	149.083478	54.846522		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	12/9/1988	9	2900	199.34	158.204613	41.135387		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/8/1990	11	3599	193.83	158.636994	35.193006		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	12/6/1991	12	3992	196.4	164.87419	31.52581		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/12/1992	13	4334	194	169.816989	24.183011		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/19/1993	14	4706	191.3	164.110214	27.189786		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/20/1996	17	5803	189.4	160.891918	28.508082		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/11/1997	18	6159	189.2	164.096595	25.103405		-270	360
3720902	6621202.623	19868119.92	123	111	1465782	530714	7	11/12/1999	20	6890	183.4	163.820056	19.579944		-270	360
3720904	6617439.95	19872597.38	122	111	1465209	530463	7	4/18/1985	6	1569	213	175.340986	37.659014	-240	-245	378
3720904	6617439.95	19872597.38	122	111	1465209	530463	7	5/13/1988	9	2690	179.5	164.428708	15.071292	-240	-245	378
3720905	6619176.971	19870655.69	122	111	1465209	530463	7	3/11/1997	18	5914	182	169.390833	12.609167	-247	-253	360
3720905	6619176.971	19870655.69	122	111	1465209	530463	7	7/24/2003	24	8240	156.62	163.12962	-6.50962	-247	-253	360
3720906	6625927.226	19870381.77	123	112	1465783	530715	7	4/22/2000	21	7052	179	175.923143	3.076857	-209	-209	315
3720906	6625927.226	19870381.77	123	112	1465783	530715	7	7/24/2003	24	8240	116.6	146.716972	-30.116972	-209	-209	315
3721102	6631413.836	19902389.66	118	116	1539578	578826	8	12/16/1992	13	4368	233	227.656897	5.343103	-352	-387	438
3721102	6631413.836	19902389.66	118	116	1539578	578826	8	2/28/2002	23	7729	247	226.236663	20.763337	-352	-387	438
3721102	6631413.836	19902389.66	118	116	1539578	578826	8	2/28/2006	27	9190	245	224.948446	20.051554	-352	-387	438
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	3/26/1982	3	450	259.05	244.172668	14.877332		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/11/1982	3	680	258.55	243.942996	14.607004		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/11/1983	4	1045	258.77	244.500732	14.269268		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/14/1984	5	1414	256.05	246.849399	9.200601		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/8/1985	6	1773	258.28	248.684595	9.595405		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	12/30/1987	8	2555	259.9	241.001496	18.898504		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	12/10/1988	9	2901	256.82	247.364356	9.455644		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/8/1990	11	3599	247.37	246.46713	0.90287		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	12/6/1991	12	3992	261.9	246.976997	14.923003		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/12/1992	13	4334	259.35	251.351061	7.998939		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/19/1993	14	4706	257	246.502834	10.497166		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/16/1994	15	5068	258.95	243.740517	15.209483		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/8/1995	16	5425	258.94	247.76474	11.17526		169	329

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/20/1996	17	5803	258.4	243.904091	14.495909		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/11/1997	18	6159	259.7	247.321031	12.378969		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/18/1998	19	6531	259.65	247.123326	12.526674		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/12/1999	20	6890	258.2	250.009038	8.190962		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/7/2003	24	8346	257.89	247.434627	10.455373		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/4/2004	25	8709	259.55	246.657219	12.892781		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	12/7/2005	26	9107	257.82	245.929969	11.890031		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/11/2006	27	9446	257.57	242.65463	14.91537		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/7/2007	28	9807	256.37	242.772078	13.597922		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/7/2008	29	10173	255.75	241.740214	14.009786		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	12/4/2009	30	10565	258.65	240.856023	17.793977		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/11/2010	31	10907	255.75	240.320713	15.429287		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/18/2011	32	11279	254.03	237.022393	17.007607		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/30/2012	33	11657	255.5	238.356059	17.143941		169	329
3721204	6642194.797	19895628.84	120	117	1464214	529953	7	11/20/2013	34	12012	254.96	243.237371	11.722629		169	329
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	3/26/1982	3	450	245.03	177.516248	67.513752	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/11/1982	3	680	244.24	177.205236	67.034764	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/11/1983	4	1045	245.96	177.715688	68.244312	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/14/1984	5	1414	245	177.206016	67.793984	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/8/1985	6	1773	245.1	176.237402	68.862598	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	9/25/1987	8	2459	244.9	174.220886	70.679114	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	12/10/1988	9	2901	243.78	179.056331	64.723669	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	10/15/1989	10	3210	244.6	171.200468	73.399532	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/8/1990	11	3599	243.72	179.142034	64.577966	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	12/6/1991	12	3992	247.95	181.853768	66.096232	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/12/1992	13	4334	248.6	184.327707	64.272293	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/19/1993	14	4706	247.5	181.429695	66.070305	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/16/1994	15	5068	248.4	180.099563	68.300437	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/8/1995	16	5425	247.95	179.913955	68.036045	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/20/1996	17	5803	243.4	180.597801	62.802199	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/11/1997	18	6159	247.6	182.574265	65.025735	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/19/1998	19	6532	246.6	182.138094	64.461906	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/12/1999	20	6890	246.1	183.062273	63.037727	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/14/2000	21	7258	245	183.087425	61.912575	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/9/2001	22	7618	246.58	179.754867	66.825133	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/19/2002	23	7993	247.05	182.818804	64.231196	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/7/2003	24	8346	247.58	184.859825	62.720175	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	12/7/2005	26	9107	250.75	180.902786	69.847214	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/11/2006	27	9446	250.57	175.514922	75.055078	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/8/2007	28	9808	250.76	178.368035	72.391965	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	12/4/2009	30	10565	251.6	178.552101	73.047899	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/11/2010	31	10907	249.56	175.511936	74.048064	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/17/2011	32	11278	245.49	168.212867	77.277133	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/30/2012	33	11657	247.65	171.856174	75.793826	151	150	385
3721701	6640153.49	19865717.42	125	114	1466805	531180	7	11/20/2013	34	12012	246.71	177.834582	68.875418	151	150	385
3721904	6654911.096	19872847.29	125	117	1600047	626045	9	5/13/1988	9	2690	211.83	193.478018	18.351982		-39	331
3721904	6654911.096	19872847.29	125	117	1600047	626045	9	12/13/1988	9	2904	219.5	194.659224	24.840776		-39	331
3722301	6702482.94	19904891.97	124	128	1542248	581299	8	6/29/1986	7	2006	186.97	208.450276	-21.480276	-491	-930	525
3722301	6702482.94	19904891.97	124	128	1542248	581299	8	6/30/1986	7	2007	215.41	225.568009	-10.158009	-491	-930	525
3722301	6702482.94	19904891.97	124	128	1542248	581299	8	1/12/1989	10	2934	205	223.216827	-18.216827	-491	-930	525

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3722501	6684852.164	19896984.54	124	124	1466365	531015	7	7/11/1981	2	192	354	294.59072	59.40928	296	296	451
3723402	6705313.788	19896927.06	126	128	1543223	582210	8	5/21/2004	25	8542	226	225.760244	0.239756	-566	-593	402
3723501	6727058.281	19890560.76	129	131	1544621	583518	8	1/16/1992	13	4033	237	229.435467	7.564533	-932	-932	468
3723602	6732464.757	19886282.5	130	131	1601303	626932	9	5/1/1986	7	1947	229.6	218.184533	11.415467	37	-17	470
3723603	6742181.825	19898458.81	129	134	1469024	532049	7	6/11/1984	5	1258	248	257.720401	-9.720401		158	328
3723803	6722783.261	19873300.41	131	128	1469930	532526	7	4/21/1981	2	111	280	260.196715	19.803285	186	186	400
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/19/1981	2	323	299.89	263.786751	36.103249	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/24/1982	3	693	299.32	262.589843	36.730157	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/12/1983	4	1046	301.61	263.110277	38.499723	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/7/1984	5	1407	300.95	267.765151	33.184849	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	4/25/1986	7	1941	301.28	261.280821	39.999179	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/9/1986	7	2139	301.24	256.949808	44.290192	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	1/16/1988	9	2572	300.95	257.730676	43.219324	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	1/13/1989	10	2935	299.15	267.839132	31.310868	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	10/12/1989	10	3207	300.64	270.339979	30.300021	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/10/1990	11	3601	300.06	267.723466	32.336534	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	12/8/1991	12	3994	302.45	265.828239	36.621761	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/11/1992	13	4333	301.7	271.111264	30.588736	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/18/1993	14	4705	301	265.1691	35.8309	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/10/1994	15	5062	300.82	259.957579	40.862421	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/9/1995	16	5426	300.72	266.197937	34.522063	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/21/1996	17	5804	298.8	260.305606	38.494394	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/13/1997	18	6161	299.95	265.299955	34.650045	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/18/1998	19	6531	301.65	266.060581	35.589419	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/11/1999	20	6889	300.47	271.149346	29.320654	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	12/1/2000	21	7275	300.05	269.339947	30.710053	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/8/2001	22	7617	300.09	266.507633	33.582367	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/6/2002	23	7980	310.95	265.360095	45.589905	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/6/2003	24	8345	300.58	267.424699	33.155301	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	12/11/2005	26	9111	301.59	267.17691	34.41309	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/9/2006	27	9444	310.37	264.361606	46.008394	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/9/2007	28	9809	300.68	262.878616	37.801384	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/21/2008	29	10187	299.99	262.181996	37.808004	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	12/3/2009	30	10564	308.25	259.379263	48.870737	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/4/2010	31	10900	300.01	258.815502	41.194498	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	10/19/2011	32	11249	297.77	256.078328	41.691672	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/7/2012	33	11634	297.4	257.418463	39.981537	270	270	330
3724601	6772800.207	19887826.9	134	138	1471395	533332	7	11/21/2013	34	12013	297.38	264.222169	33.157831	270	270	330
3726201	6538273.403	19844649.53	119	95	1370828	484960	6	3/20/1991	12	3731	59	76.600181	-17.600181	-333	-333	397
3726202	6536801.711	19855731.82	117	96	840122	311107	2	11/12/1982	3	681	437.17	477.95911	-40.78911		415	460
3726602	6550258.673	19843390.99	120	97	1371361	485087	6	8/15/2000	21	7167	19	46.987526	-27.987526	-195	-195	419
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/12/1982	3	681	196.35	195.795386	0.554614	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/10/1983	4	1044	185.69	195.872571	-10.182571	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/7/1985	6	1772	196.45	195.925144	0.524856	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/7/1986	7	2137	197.14	195.28494	1.85506	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	12/30/1987	8	2555	196.86	195.677868	1.182132	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	12/14/1988	9	2905	195.43	196.431276	-1.001276	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	10/17/1989	10	3212	189.3	196.551331	-7.251331	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/8/1990	11	3599	196.95	196.217266	0.732734	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/20/1993	14	4707	197.2	195.91305	1.28695	64	64	201

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/20/1996	17	5803	195.7	195.735655	-0.035655	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/7/1997	18	6155	197.46	196.310733	1.149267	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/12/1999	20	6890	196.7	196.635101	0.064899	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/16/2000	21	7260	196.41	196.388312	0.021688	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/9/2001	22	7618	195.7	196.165949	-0.465949	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/6/2004	25	8711	199.15	196.251117	2.898883	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/7/2006	27	9442	196.3	196.012354	0.287646	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/7/2007	28	9807	195.75	196.035745	-0.285745	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/8/2008	29	10174	196.08	195.965539	0.114461	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	12/6/2009	30	10567	197.25	195.770307	1.479693	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/12/2010	31	10908	195.3	195.833565	-0.533565	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/17/2011	32	11278	192.31	195.62086	-3.31086	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	12/1/2012	33	11658	194.54	195.857449	-1.317449	64	64	201
3726804	6527486.25	19814745.06	123	91	846744	313943	2	11/19/2013	34	12011	195.6	196.371783	-0.771783	64	64	201
3727103	6561566.942	19859947	119	100	1161509	423556	4	1/1/1981	2	1	263	367.033436	-104.03344	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	5/18/1988	9	2695	245.12	367.217606	-122.09761	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	7/28/1995	16	5322	233.25	366.812667	-133.56267	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/9/1995	16	5426	241.05	367.573448	-126.52345	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/19/1996	17	5802	239.85	363.151996	-123.302	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/7/1997	18	6155	238.55	367.371935	-128.82194	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/13/1998	19	6526	238.85	366.513124	-127.66312	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/13/1999	20	6891	237.35	369.846018	-132.49602	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/15/2000	21	7259	236.21	369.871141	-133.66114	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/9/2001	22	7618	237.48	367.316395	-129.8364	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	3/8/2002	23	7737	237.79	367.090495	-129.3005	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/8/2003	24	8347	237.92	369.551596	-131.6316	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/4/2004	25	8709	237.1	368.098029	-130.99803	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	12/6/2005	26	9106	237.04	367.148482	-130.10848	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/7/2006	27	9442	237.33	363.704391	-126.37439	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/7/2007	28	9807	235.25	364.512752	-129.26275	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/6/2008	29	10172	234.62	363.310431	-128.69043	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	12/5/2009	30	10566	238.9	362.817549	-123.91755	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	3/21/2010	31	10672	240.87	362.053718	-121.18372	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/12/2010	31	10908	237.2	361.483559	-124.28356	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/18/2011	32	11279	234.7	357.862789	-123.16279	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/30/2012	33	11657	236.23	360.286533	-124.05653	178	178	428
3727103	6561566.942	19859947	119	100	1161509	423556	4	11/20/2013	34	12012	235.35	365.318161	-129.96816	178	178	428
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/7/1985	6	1772	-26	65.183217	-91.183217	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	2/16/1988	9	2603	2	66.775766	-64.775766	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	5/19/1988	9	2696	-45	35.894412	-80.894412	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	12/8/1988	9	2899	30	74.973208	-44.973208	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	10/17/1989	10	3212	-5	40.975462	-45.975462	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/9/1990	11	3600	0	76.319966	-76.319966	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	12/6/1991	12	3992	-34.2	86.205898	-120.4059	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/13/1992	13	4335	32.9	90.393465	-57.493465	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	9/29/1994	15	5020	30	73.780334	-43.780334	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/23/1994	15	5075	-1	73.317723	-74.317723	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	10/5/1995	16	5391	-1	73.570868	-74.570868	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	9/16/1996	17	5738	20	77.857051	-57.857051	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	10/9/1997	18	6126	27	80.648915	-53.648915	-116	-127	385

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/5/1998	19	6518	28	76.25907	-48.25907	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	9/1/2000	21	7184	24	77.217796	-53.217796	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/8/2000	21	7252	24	77.385606	-53.385606	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	10/31/2002	23	7974	54	84.529064	-30.529064	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/10/2003	24	8349	72	88.928648	-16.928648	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	10/3/2004	25	8677	49	82.002295	-33.002295	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/13/2005	26	9083	70	68.2984	1.7016	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	12/20/2006	27	9485	43	46.731771	-3.731771	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/28/2007	28	9828	33	63.8236	-30.8236	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	3/25/2009	30	10311	82	62.959307	19.040693	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/30/2012	33	11657	136.78	45.139694	91.640306	-116	-127	385
3727201	6575743.212	19856166.31	121	102	1464672	530188	7	11/20/2013	34	12012	140.73	60.72619	80.00381	-116	-127	385
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	3/27/1982	3	451	20	78.368125	-58.368125	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	11/11/1982	3	680	27	77.554542	-50.554542	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	11/12/1983	4	1046	-51	40.024978	-91.024978	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	11/10/1984	5	1410	-53	72.466962	-125.46696	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	11/7/1985	6	1772	-39	71.424466	-110.42447	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	1/13/1988	9	2569	15	70.460852	-55.460852	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	5/19/1988	9	2696	-10	50.519319	-60.519319	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	12/8/1988	9	2899	15	80.937828	-65.937828	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	10/17/1989	10	3212	11	48.121546	-37.121546	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	12/6/1991	12	3992	20	92.032697	-72.032697	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	11/13/1992	13	4335	18	96.411745	-78.411745	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	2/10/1993	14	4424	17	92.936903	-75.936903	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	11/20/1993	14	4707	1	87.152367	-86.152367	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	11/23/1994	15	5075	16	79.837771	-63.837771	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	10/5/1995	16	5391	22	79.934534	-57.934534	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	7/31/1996	17	5691	30	84.357207	-54.357207	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	10/9/1997	18	6126	27	86.927799	-59.927799	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	4/15/1998	19	6314	37	84.204191	-47.204191	-167	-167	295
3727301	6579664.02	19857267.93	121	103	1464673	530189	7	1/8/1999	20	6582	45	82.283573	-37.283573	-167	-167	295
3727304	6577893.184	19856371.34	121	103	1371859	485219	6	5/19/1988	9	2696	5	38.915845	-33.915845	-147	-160	388
3727304	6577893.184	19856371.34	121	103	1371859	485219	6	11/30/2012	33	11657	140.39	75.859848	64.530152	-147	-160	388
3727304	6577893.184	19856371.34	121	103	1371859	485219	6	11/20/2013	34	12012	144.31	87.837901	56.472099	-147	-160	388
3727504	6573675.775	19841670.52	123	101	1372964	485468	6	5/19/1988	9	2696	-79	-23.561533	-55.438467	-220	-235	355
3727505	6572835.241	19837575.28	124	100	1373482	485590	6	5/19/1988	9	2696	-145	-62.00686	-82.99314	-332	-347	335
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	3/27/1982	3	451	-85	10.982786	-95.982786	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/12/1982	3	681	-94	10.094159	-104.09416	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/12/1983	4	1046	-87	12.27613	-99.27613	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/7/1985	6	1772	-85	1.122609	-86.122609	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	7/13/1986	7	2020	-86	0.409497	-86.409497	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	5/19/1988	9	2696	-99	-21.319191	-77.680809	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	12/8/1988	9	2899	-101	15.833862	-116.83386	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	10/17/1989	10	3212	-75	-30.895869	-44.104131	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/9/1990	11	3600	-80	17.988086	-97.988086	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	12/6/1991	12	3992	-88	29.902695	-117.9027	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/13/1992	13	4335	-47	33.711643	-80.711643	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/20/1993	14	4707	-70	23.39453	-93.39453	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/3/1994	15	5055	-50	16.807012	-66.807012	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/23/1994	15	5075	-50	16.672096	-66.672096	-265	-280	300

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	10/5/1995	16	5391	-50	13.829693	-63.829693	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	9/16/1997	17	5738	-57	22.230435	-79.230435	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	7/14/1997	18	6039	-58	25.028915	-83.028915	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	5/14/1998	19	6343	-58	19.988325	-77.988325	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	5/12/1999	20	6706	-60	15.612084	-75.612084	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	9/1/2000	21	7184	-52	23.680285	-75.680285	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/8/2000	21	7252	-60	23.944719	-83.944719	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/10/2003	24	8349	-35	36.922779	-71.922779	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	10/3/2004	25	8677	-35	24.895077	-59.895077	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/13/2005	26	9083	-23	10.378218	-33.378218	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/28/2007	28	9828	-21	7.051397	-28.051397	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	8/2/2008	29	10076	-39	-6.215973	-32.784027	-265	-280	300
3727506	6571985.138	19833681.7	124	100	1373482	485590	6	11/17/2011	32	11278	31.05	-33.059949	64.109949	-265	-280	300
3727508	6574910.007	19837573.61	124	100	1373482	485590	6	9/15/1987	8	2449	67	40.674768	26.325232	-203	-213	317
3727601	6583757.74	19844083.23	123	103	1372966	485470	6	5/20/1988	9	2697	-20.22	13.473472	-33.693472	-274	-276	296
3727605	6579907.069	19837915.91	124	101	1373483	485591	6	11/8/2000	21	7252	-30	5.088044	-35.088044	-326	-326	340
3727802	6570229.341	19828832.49	125	99	1373985	485707	6	5/19/1988	9	2696	-108	-51.974931	-56.025069	-304	-320	376
3727808	6568197.544	19818901.41	126	98	1374608	485825	6	3/28/2003	24	8122	-65	-22.512723	-42.487277	-425	-490	300
3728303	6625968.368	19860853.28	125	111	1373997	485719	6	5/13/1988	9	2690	165.05	155.723792	9.326208		20	320
3728304	6624351.186	19860367.52	124	111	1466298	530948	7	5/13/1988	9	2690	160.52	151.819618	8.700382		-64	283
3728401	6593757.448	19839296.79	125	104	1373990	485712	6	2/8/1985	6	1500	-3	20.323268	-23.323268	-235	-237	315
3728503	6615875.632	19836020.7	128	107	1375811	486079	6	3/12/1985	6	1532	40	57.293835	-17.293835	-145	-147	358
3728505	6606485.651	19840628.6	126	106	1374616	485833	6	3/19/2002	23	7748	68	83.855084	-15.855084	-175	-183	360
3728505	6606485.651	19840628.6	126	106	1374616	485833	6	7/25/2003	24	8241	68.5	89.629347	-21.129347	-175	-183	360
3728604	6617137.431	19847235.69	126	108	1374618	485835	6	9/6/2001	22	7554	94	102.977722	-8.977722	-101	-121	386
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	3/26/1982	3	450	23.63	62.757298	-39.127298	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/12/1982	3	681	20.65	61.997769	-41.347769	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/8/1985	6	1773	0.4	56.666845	-56.266845	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	2/25/1988	9	2612	-1.7	62.765154	-64.465154	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	10/17/1989	10	3212	22.94	33.635753	-10.695753	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/8/1990	11	3599	23.9	72.901307	-49.001307	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/13/1992	13	4335	40.9	87.266996	-46.366996	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/19/1993	14	4706	40.2	80.651347	-40.451347	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/16/1994	15	5068	39.08	79.713198	-40.633198	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/8/1995	16	5425	31.37	72.462312	-41.092312	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/20/1996	17	5803	26.55	82.268038	-55.718038	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/19/1998	19	6532	30.5	82.940058	-52.440058	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/11/1999	20	6889	31.2	85.449897	-54.249897	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/9/2001	22	7618	37.43	78.972283	-41.542283	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/7/2003	24	8346	44.47	95.260007	-50.790007	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/4/2004	25	8709	69.3	83.783839	-14.483839	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/8/2007	28	9808	130.05	78.590967	51.459033	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	12/5/2009	30	10566	102.9	81.507845	21.392155	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	3/25/2010	31	10676	113.5	73.904958	39.595042	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/12/2010	31	10908	103.4	69.732001	33.667999	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/17/2011	32	11278	94.18	52.481957	41.698043	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/30/2012	33	11657	99.6	64.433778	35.166222	-224	-229	272
3728902	6620929.246	19822988.62	130	107	1376576	486320	6	11/20/2013	34	12012	113.52	76.716222	36.803778	-224	-229	272
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	3/26/1982	3	450	189.71	149.479247	40.230753	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/11/1982	3	680	187.95	148.938569	39.011431	81	81	433

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/11/1983	4	1045	191.21	149.923823	41.286177	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/14/1984	5	1414	189.58	147.833846	41.746154	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/8/1985	6	1773	189.87	146.643872	43.226128	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	2/27/1988	9	2614	187	146.908367	40.091633	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	12/13/1988	9	2904	206.34	152.384825	53.955175	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	10/17/1989	10	3212	189.95	136.457081	53.492919	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/8/1990	11	3599	189.83	153.097489	36.732511	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	12/6/1991	12	3992	193.7	158.446505	35.253495	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/13/1992	13	4335	196.25	162.256708	33.993292	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/19/1993	14	4706	194.7	157.588111	37.111889	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/16/1994	15	5068	195.1	155.313661	39.786339	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/8/1995	16	5425	188.54	154.001338	34.538662	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/20/1996	17	5803	190.9	156.26509	34.63491	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/7/1997	18	6155	191.3	159.123059	32.176941	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/19/1998	19	6532	191.45	157.741243	33.708757	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/12/1999	20	6890	188.3	158.763488	29.536512	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/15/2000	21	7259	188.85	159.886894	28.963106	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/9/2001	22	7618	192.1	153.763765	38.336235	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/19/2002	23	7993	194.35	159.834716	34.515284	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/7/2003	24	8346	197	162.940281	34.059719	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/4/2004	25	8709	196.9	158.141778	38.758222	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	12/7/2005	26	9107	201.1	155.39252	45.70748	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/11/2006	27	9446	205.18	145.960666	59.219334	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/8/2007	28	9808	208.09	151.972893	56.117107	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	11/7/2008	29	10173	209.42	147.722858	61.697142	81	81	433
3729102	6634174.718	19855685.49	126	112	1374622	485839	6	12/4/2009	30	10565	209.21	152.8837	56.3263	81	81	433
3729103	6634088.716	19855680.87	126	112	1374622	485839	6	11/11/2010	31	10907	204	146.899633	57.100367	53	53	433
3729103	6634088.716	19855680.87	126	112	1374622	485839	6	11/17/2011	32	11278	198.3	136.377219	61.922781	53	53	433
3729103	6634088.716	19855680.87	126	112	1374622	485839	6	11/30/2012	33	11657	206.97	142.271418	64.698582	53	53	433
3729103	6634088.716	19855680.87	126	112	1374622	485839	6	11/20/2013	34	12012	208.27	150.678925	57.591075	53	53	433
3729304	6661404.127	19862326.72	128	117	1600830	626597	9	5/13/1988	9	2690	243.06	204.474139	38.585861		-135	315
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	3/26/1982	3	450	124.79	125.017032	-0.227032	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/12/1982	3	681	121.57	124.411726	-2.841726	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/11/1983	4	1045	123	125.69802	-2.69802	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/8/1985	6	1773	120.1	121.245177	-1.145177	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	2/27/1988	9	2614	119.62	123.264974	-3.644974	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	12/10/1988	9	2901	119.51	128.899809	-9.389809	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	10/17/1989	10	3212	121.66	107.529669	14.130331	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/8/1990	11	3599	112.23	130.413733	-18.183733	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	12/6/1991	12	3992	127.23	136.791042	-9.561042	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/13/1992	13	4335	131.1	140.809341	-9.709341	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/19/1993	14	4706	130.4	135.665284	-5.265284	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/16/1994	15	5068	128.13	133.861847	-5.731847	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/8/1995	16	5425	127.6	130.929785	-3.329785	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/20/1996	17	5803	121.5	135.205406	-13.705406	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/7/1997	18	6155	123.3	138.381882	-15.081882	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/19/1998	19	6532	123.75	136.391349	-12.641349	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/11/1999	20	6889	122.5	137.741073	-15.241073	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/15/2000	21	7259	122.34	139.858248	-17.518248	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/19/2002	23	7993	133.25	140.048899	-6.798899	14	14	366

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/7/2003	24	8346	133.95	143.466694	-9.516694	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/4/2004	25	8709	142.6	136.77627	5.82373	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	12/7/2005	26	9107	150.05	134.272461	15.777539	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/11/2006	27	9446	155.9	122.994086	32.905914	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/8/2007	28	9808	156.01	131.177597	24.832403	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	12/4/2009	30	10565	152.3	132.657646	19.642354	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/11/2010	31	10907	155.8	125.216563	30.583437	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/17/2011	32	11278	143.99	113.10527	30.88473	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/28/2012	33	11655	159.5	120.662028	38.837972	14	14	366
3729402	6634318.331	19842410.26	128	111	1375815	486083	6	11/20/2013	34	12012	157.95	129.903688	28.046312	14	14	366
3729406	6637742.626	19844811.63	128	112	1375816	486084	6	1/9/2003	24	8044	155	151.997586	3.002414	-49	-49	436
3729505	6654150.427	19845128.34	130	114	1376583	486327	6	11/20/1990	11	3611	212	188.985563	23.014437	78	78	528
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	3/26/1982	3	450	180.57	184.156139	-3.586139	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/12/1982	3	681	179.85	183.843326	-3.993326	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/11/1983	4	1045	180.73	184.386789	-3.656789	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/13/1984	5	1413	179.41	183.955727	-4.545727	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/8/1985	6	1773	178.95	183.051677	-4.101677	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	9/25/1987	8	2459	177.93	181.348513	-3.418513	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	1/6/1988	9	2562	178.16	181.565962	-3.405962	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	12/10/1988	9	2901	176.93	186.091245	-9.161245	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	10/17/1989	10	3212	177.92	180.189496	-2.269496	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/8/1990	11	3599	177.11	186.744644	-9.634644	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	12/6/1991	12	3992	178.6	188.464981	-9.864981	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/13/1992	13	4335	178.5	190.461681	-11.961681	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/19/1993	14	4706	178.6	188.007953	-9.407953	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/17/1994	15	5069	179.6	187.294502	-7.694502	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/8/1995	16	5425	178.45	186.948441	-8.498441	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/20/1996	17	5803	177.42	187.982016	-10.562016	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/7/1997	18	6155	178.26	189.504287	-11.244287	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/19/1998	19	6532	177.75	189.181802	-11.431802	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/12/1999	20	6890	176.8	190.531623	-13.731623	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/15/2000	21	7259	175.77	190.9131	-15.1431	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/9/2001	22	7618	176.65	188.683241	-12.033241	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/19/2002	23	7993	176.9	190.427935	-13.527935	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/7/2003	24	8346	177.31	191.365613	-14.055613	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/5/2004	25	8710	179.15	189.361368	-10.211368	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	12/7/2005	26	9107	180.2	189.092882	-8.892882	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/11/2006	27	9446	181.29	185.435264	-4.145264	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/8/2007	28	9808	182.65	187.765098	-5.115098	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/18/2008	29	10184	183	185.77321	-2.77321	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	12/3/2009	30	10564	184.8	187.352447	-2.552447	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/11/2010	31	10907	177	185.314342	-8.314342	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/17/2011	32	11278	167.71	180.88462	-13.17462	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/28/2012	33	11655	176.79	183.718675	-6.928675	-22	-24	202
3730801	6690718.618	19823265.49	137	118	1379906	487289	6	11/20/2013	34	12012	180.88	187.861594	-6.981594	-22	-24	202
3730802	6694692.513	19823369	137	119	1472645	533970	7	3/24/1982	3	448	179.43	190.471567	-11.041567		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/25/1982	3	694	178.97	190.159882	-11.189882		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/11/1983	4	1045	173.22	190.663818	-17.443818		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/6/1984	5	1406	172.52	190.550496	-18.030496		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/9/1985	6	1774	177.61	189.645104	-12.035104		-45	240

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3730802	6694692.513	19823369	137	119	1472645	533970	7	12/4/1986	7	2164	177.41	186.718312	-9.308312		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	12/19/1987	8	2544	176.85	187.871563	-11.021563		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	1/21/1989	10	2943	175.9	191.765264	-15.865264		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	12/2/1989	10	3258	177.2	187.604701	-10.404701		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	12/7/1990	11	3628	176.3	192.911925	-16.611925		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	1/4/1992	13	4021	178.2	194.21685	-16.01685		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/13/1992	13	4335	177.2	196.032463	-18.832463		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/6/1993	14	4693	178.7	193.811853	-15.111853		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/17/1994	15	5069	178.2	192.862228	-14.662228		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/15/1995	16	5432	176.82	193.083919	-16.263919		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/20/1996	17	5803	176.25	193.441398	-17.191398		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/6/1997	18	6154	177.2	194.855004	-17.655004		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/19/1998	19	6532	176.7	194.59008	-17.89008		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/11/1999	20	6889	175.27	195.922796	-20.652796		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/15/2000	21	7259	174.36	196.174877	-21.814877		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/8/2001	22	7617	175.26	194.292434	-19.032434		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/20/2002	23	7994	175.45	195.587873	-20.137873		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/7/2003	24	8346	176.95	196.351411	-19.401411		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/5/2004	25	8710	177.7	194.744703	-17.044703		-45	240
3730802	6694692.513	19823369	137	119	1472645	533970	7	11/11/2006	27	9446	179.53	191.412146	-11.882146		-45	240
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	3/23/1982	3	447	362.74	243.999451	118.74055	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/25/1982	3	694	362.93	243.136776	119.79322	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/11/1983	4	1045	365.73	243.829983	121.90002	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/6/1984	5	1406	365.31	247.729731	117.58027	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/9/1985	6	1774	364.4	245.264271	119.13573	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	12/4/1986	7	2164	366.18	236.456351	129.72365	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	12/19/1987	8	2544	365.4	237.487666	127.91233	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	1/21/1989	10	2943	363.82	248.721683	115.09832	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	12/2/1989	10	3258	365.7	251.045405	114.6546	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	12/7/1990	11	3628	365.7	248.572892	117.12711	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/13/1992	13	4335	366.9	254.244926	112.65507	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/6/1993	14	4693	366.5	247.569903	118.9301	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/17/1994	15	5069	368.7	241.868047	126.83195	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/16/1995	16	5433	367.48	248.204033	119.27597	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/20/1996	17	5803	364.2	242.422624	121.77738	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/6/1997	18	6154	366.66	247.677766	118.98223	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/19/1998	19	6532	367.3	248.269487	119.03051	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/11/1999	20	6889	366.16	253.995321	112.16468	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/15/2000	21	7259	363.97	251.957291	112.01271	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/8/2001	22	7617	366.5	248.272545	118.22746	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/20/2002	23	7994	366.65	247.675009	118.97499	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/7/2003	24	8346	366.15	249.97303	116.17697	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	12/8/2005	26	9108	366.43	248.594826	117.83517	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/11/2006	27	9446	365.18	244.904243	120.27576	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/10/2007	28	9810	365.05	243.692469	121.35753	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/18/2008	29	10184	365.55	242.799192	122.75081	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	12/5/2009	30	10566	367.97	240.334273	127.63573	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/10/2010	31	10906	363.89	239.519288	124.37071	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	10/21/2011	32	11251	360.25	235.982362	124.26764	346	346	403
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/29/2012	33	11656	362.98	237.593369	125.38663	346	346	403

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3732111	6752102.398	19856496.65	137	132	1379961	487344	6	11/21/2013	34	12013	363.06	244.985145	118.07486	346	346	403
3732205	6759342.784	19856883.51	137	133	1602997	628069	9	8/6/1985	6	1679	397	296.711133	100.28887	311	311	451
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/19/1981	2	323	264.09	251.178693	12.911307	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/24/1982	3	693	263.67	250.097878	13.572122	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/12/1983	4	1046	262.4	250.694905	11.705095	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/7/1984	5	1407	263.72	254.474465	9.245535	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	4/26/1986	7	1942	264.95	248.122332	16.827668	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/9/1986	7	2139	264.46	244.204223	20.255777	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	1/15/1988	9	2571	272.35	245.749972	26.600028	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	1/13/1989	10	2935	269.52	254.917188	14.602812	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	10/12/1989	10	3207	263.08	256.619288	6.460712	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/10/1990	11	3601	261.75	254.431697	7.318303	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	12/8/1991	12	3994	274	253.370606	20.629394	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/11/1992	13	4333	262.17	257.950622	4.219378	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/18/1993	14	4705	263	252.691254	10.308746	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/10/1994	15	5062	268.65	248.152612	20.497388	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/9/1995	16	5426	267.98	254.060072	13.919928	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/21/1996	17	5804	262.15	248.395469	13.754531	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/13/1997	18	6161	262.52	253.323965	9.196035	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/18/1998	19	6531	274.5	253.619332	20.880668	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/11/1999	20	6889	261.48	257.801487	3.678513	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	12/1/2000	21	7275	267.9	256.100945	11.799055	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/9/2001	22	7618	265.39	253.613446	11.776554	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/6/2002	23	7980	269.25	252.935699	16.314301	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/6/2003	24	8345	263.67	254.764033	8.905967	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/5/2004	25	8710	275.35	254.226667	21.123333	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	12/11/2005	26	9111	257.55	254.126486	3.423514	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/9/2006	27	9444	267.52	251.514458	16.005542	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/9/2007	28	9809	260.01	250.301397	9.708603	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/21/2008	29	10187	259.5	249.712121	9.787879	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	12/3/2009	30	10564	270.75	247.041997	23.708003	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/4/2010	31	10900	259.57	246.605902	12.964098	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	10/19/2011	32	11249	255.31	243.629132	11.680868	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/7/2012	33	11634	262.45	245.146641	17.303359	230	230	280
3732301	6775208.22	19864023.73	138	136	1473170	534239	7	11/21/2013	34	12013	263.2	251.808745	11.391255	230	230	280
3732302	6775659.888	19865265.34	138	136	1473170	534239	7	1/1/1981	2	1	210	239.9329	-29.9329		120	270
3732405	6747043.51	19852475.3	137	130	1379940	487323	6	11/6/1984	5	1406	370	279.904855	90.095145		255	401
3732603	6776271.862	19845928.62	141	135	1474572	535013	7	3/24/1982	3	448	363.28	234.408761	128.87124		352	400
3732603	6776271.862	19845928.62	141	135	1474572	535013	7	11/25/1982	3	694	362.81	233.615777	129.19422		352	400
3732603	6776271.862	19845928.62	141	135	1474572	535013	7	11/11/1983	4	1045	367.22	234.305282	132.91472		352	400
3732603	6776271.862	19845928.62	141	135	1474572	535013	7	11/6/1984	5	1406	367.53	238.152247	129.37775		352	400
3732603	6776271.862	19845928.62	141	135	1474572	535013	7	12/4/1986	7	2164	365.63	227.137378	138.49262		352	400
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/19/1998	19	6532	269.6	219.874828	49.725172	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/11/1999	20	6889	261.46	224.14617	37.31383	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/15/2000	21	7259	224.12	223.227814	0.892186	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/8/2001	22	7617	268.25	219.296966	48.953034	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/20/2002	23	7994	268	219.920926	48.079074	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/7/2003	24	8346	268	221.598489	46.401511	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/5/2004	25	8710	268.65	219.343268	49.306732	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	12/8/2005	26	9108	267.59	218.890931	48.699069	91	90	321

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	3/30/2006	27	9220	266.2	217.276572	48.923428	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/15/2006	27	9450	262.7	214.852171	47.847829	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/10/2007	28	9810	263.39	214.989793	48.400207	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/18/2008	29	10184	267.77	213.694466	54.075534	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	12/5/2009	30	10566	265.65	212.790016	52.859984	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/10/2010	31	10906	225.88	215.711493	10.168507	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	10/21/2011	32	11251	189.15	201.92014	-12.77014	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/29/2012	33	11656	247.67	209.359493	38.310507	91	90	321
3732709	6752803.082	19828748.37	142	129	1382538	488088	6	11/21/2013	34	12013	247.55	215.771222	31.778778	91	90	321
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	3/10/1988	9	2626	65.42	99.124485	-33.704485	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	10/17/1989	10	3212	67.64	81.016025	-13.376025	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/7/1990	11	3598	67.18	103.5246	-36.3446	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	12/5/1991	12	3991	69.1	111.102999	-42.002999	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/14/1992	13	4336	69.9	114.562311	-44.662311	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	3/27/1993	14	4469	72.25	113.753206	-41.503206	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	12/17/1993	14	4734	71.4	111.432868	-40.032868	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	2/2/1995	16	5146	75.8	105.621257	-29.821257	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/11/1995	16	5428	66	104.094832	-38.094832	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/15/1996	17	5798	67.2	104.638828	-37.438828	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/14/1997	18	6162	66.12	105.791662	-39.671662	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/17/1998	19	6530	49.89	99.360835	-49.470835	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/17/1999	20	6895	59.7	99.747954	-40.047954	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/10/2000	21	7254	55.87	109.51485	-53.64485	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/9/2001	22	7618	60.5	101.077776	-40.577776	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	9/25/2003	24	8303	64.01	107.490843	-43.480843	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/10/2004	25	8715	69.63	92.293564	-22.663564	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	1/13/2006	27	9144	71.75	87.78497	-16.03497	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	2/7/2008	29	9899	97.55	83.936582	13.613418	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/13/2008	29	10179	98.8	78.061298	20.738702	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/18/2010	31	10914	106.75	78.039078	28.710922	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	12/1/2011	32	11292	103.43	74.039302	29.390698	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/14/2012	33	11641	107.54	72.088537	35.451463	-622	-632	328
3733202	6494079.28	19807716.7	121	84	1371840	485200	6	11/13/2013	34	12005	110.94	83.614257	27.325743	-622	-632	328
3733204	6490670.16	19802806.78	122	83	845537	313360	2	3/18/1981	2	77	226.7	246.380936	-19.680936		106	295
3733204	6490670.16	19802806.78	122	83	845537	313360	2	3/19/1982	3	443	226.29	246.259724	-19.969724		106	295
3733204	6490670.16	19802806.78	122	83	845537	313360	2	11/15/1984	5	1415	224.42	247.877156	-23.457156		106	295
3733205	6494347.042	19807536.34	121	84	1371840	485200	6	1/30/1981	2	30	66	86.859925	-20.859925	-655	-660	323
3733207	6493503.633	19810843.07	121	85	1371841	485201	6	6/21/1996	17	5651	66	86.672008	-20.672008	-597	-640	316
3734103	6521374.241	19799254.23	125	88	1373974	485696	6	5/11/1988	9	2688	-29	14.456194	-43.456194	-670	-674	350
3734104	6522867.079	19800641.87	125	88	1373974	485696	6	3/1/1998	19	6269	-49	24.542895	-73.542895	-640	-670	360
3734403	6518152.755	19795961.98	125	87	848820	315040	2	3/26/1982	3	450	208.86	225.110418	-16.250418	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/13/1982	3	682	208.4	224.987972	-16.587972	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/12/1983	4	1046	209.1	225.198304	-16.098304	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/9/1984	5	1409	206.74	226.361854	-19.621854	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/10/1985	6	1775	199.2	225.598144	-26.398144	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/14/1986	7	2144	204.76	223.977724	-19.217724	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	1/6/1988	9	2562	208.65	224.899903	-16.249903	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	12/9/1988	9	2900	206.8	227.353947	-20.553947	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	10/10/1989	10	3205	208.04	228.273394	-20.233394	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/7/1990	11	3598	208.37	227.364735	-18.994735	97	97	298

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3734403	6518152.755	19795961.98	125	87	848820	315040	2	12/4/1991	12	3990	209.43	227.223036	-17.793036	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/10/1992	13	4332	209.7	228.698295	-18.998295	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/17/1993	14	4704	211.2	226.471051	-15.271051	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	2/1/1995	16	5145	209.8	226.257363	-16.457363	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/14/1995	16	5431	209.67	228.084622	-18.414622	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/26/1996	17	5809	209.2	225.995117	-16.795117	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/7/1997	18	6155	211.2	227.821226	-16.621226	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/19/1999	19	6532	210.2	227.378041	-17.178041	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/12/1999	20	6890	208.55	228.799134	-20.249134	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/16/2000	21	7260	207.37	228.290497	-20.920497	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/9/2001	22	7618	209.66	227.50731	-17.84731	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/23/2002	23	7997	209.65	227.511288	-17.861288	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/21/2003	24	8360	208.22	228.158093	-19.938093	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/6/2004	25	8711	207.9	227.546619	-19.646619	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	12/8/2005	26	9108	208.3	227.482806	-19.182806	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/14/2006	27	9449	203.01	226.384009	-23.374009	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/6/2007	28	9806	202.82	226.530948	-23.710948	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	11/8/2008	29	10174	203.44	226.327442	-22.887442	97	97	298
3734403	6518152.755	19795961.98	125	87	848820	315040	2	12/5/2009	30	10566	205.3	225.943863	-20.643863	97	97	298
3734404	6522155.935	19793613.96	126	88	850054	315659	2	2/8/1984	5	1134	202	216.759365	-14.759365	49	49	285
3734404	6522155.935	19793613.96	126	88	850054	315659	2	5/18/1988	9	2695	206.36	218.799655	-12.439655	49	49	285
3734405	6516897.988	19793166.8	126	87	1374597	485814	6	8/6/2013	34	11906	75	56.933225	18.066775	-680	-695	315
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	3/26/1982	3	450	-110	8.128914	-118.12891	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/13/1982	3	682	-116	7.234849	-123.23485	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/15/1983	4	1049	-110	10.633393	-120.63339	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/9/1984	5	1409	-103	0.499886	-103.49989	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/10/1985	6	1775	-125	-0.815218	-124.18478	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/14/1986	7	2144	-131	0.964748	-131.96475	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	5/14/1988	9	2691	-134	14.618435	-148.61844	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	12/10/1988	9	2901	-120	17.868263	-137.86826	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	10/11/1989	10	3206	-104	-25.865951	-78.134049	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/7/1990	11	3598	-144	-31.641571	-112.35843	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	12/4/1991	12	3990	-82	27.381229	-109.38123	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/10/1992	13	4332	-90	29.767249	-119.76725	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/17/1993	14	4704	-83	26.981682	-109.98168	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/7/1997	18	6155	-84	19.913613	-103.91361	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/19/1998	19	6532	-84	5.77003	-89.77003	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/16/2000	21	7260	-132	28.391049	-160.39105	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/9/2001	22	7618	-107	13.619938	-120.61994	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/21/2003	24	8360	-100	21.126143	-121.12614	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/6/2004	25	8711	-39	-11.209493	-27.790507	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	12/8/2005	26	9108	-158	-14.105815	-143.89419	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/14/2006	27	9449	-168	-40.443427	-127.55657	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/13/2010	31	10909	17	-30.722673	47.722673	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/13/2010	31	10909	-3.6	-30.722673	27.122673	-827	-827	437
3734505	6538290.079	19785447.29	129	90	1376154	486180	6	11/16/2011	32	11277	-91	-57.4728	-33.5272	-827	-827	437
3734508	6535734.641	19788733.46	128	90	1375794	486062	6	9/25/2003	24	8303	-105	-13.590225	-91.409775	-805	-810	450
3734508	6535734.641	19788733.46	128	90	1375794	486062	6	4/20/2006	27	9241	-175	-73.018528	-101.98147	-805	-810	450
3734509	6538812.959	19785370.45	129	90	1376154	486180	6	4/23/1991	12	3765	-91	-33.695948	-57.304052	-802	-822	434
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	3/27/1998	19	6295	-193	-39.228126	-153.77187	-708	-708	225

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	3/2/2006	27	9192	-48	-86.389025	38.389025	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	9/2/2006	27	9376	-123	-95.889549	-27.110451	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	10/23/2007	28	9792	-90	-67.402181	-22.597819	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	1/1/2008	29	9862	-75	-66.873226	-8.126774	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	2/1/2008	29	9893	-89	-74.434353	-14.565647	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	3/1/2008	29	9922	-93	-79.815603	-13.184397	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	4/1/2008	29	9953	-91	-81.608192	-9.391808	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	5/1/2008	29	9983	-100	-82.917638	-17.082362	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	6/1/2008	29	10014	-102	-83.619919	-18.380081	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	7/1/2008	29	10044	-102	-84.271396	-17.728604	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	8/1/2008	29	10075	-102	-84.619365	-17.380635	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	9/1/2008	29	10106	-89	-84.967335	-4.032665	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	10/1/2008	29	10136	-86	-85.256909	-0.743091	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	11/1/2008	29	10167	-70	-85.454238	15.454238	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	12/1/2008	29	10197	-75	-85.645201	10.645201	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	4/24/2011	32	11071	-74	-111.343223	37.343223	-708	-708	225
3734603	6553467.214	19793969.83	129	93	1376157	486183	6	3/1/2013	34	11748	-66	-78.664068	12.664068	-708	-708	225
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	1/1/2008	29	9862	-80	-47.872732	-32.127268	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	2/1/2008	29	9893	-90	-55.2524	-34.7476	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	3/1/2008	29	9922	-87	-57.532169	-29.467831	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	4/1/2008	29	9953	-89	-59.364185	-29.635815	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	5/1/2008	29	9983	-85	-59.067158	-25.932842	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	6/1/2008	29	10014	-73	-55.95755	-17.04245	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	8/1/2008	29	10075	-96	-63.557022	-32.442978	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	9/1/2008	29	10106	-92	-62.601462	-29.398538	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	10/1/2008	29	10136	-51	-50.505062	-0.494938	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	11/1/2008	29	10167	-50	-50.344259	0.344259	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	12/1/2008	29	10197	-57	-52.578966	-4.421034	-648	-648	258
3734604	6549030.538	19798119.01	128	93	1375797	486065	6	4/24/2011	32	11071	-61	-69.500651	8.500651	-648	-648	258
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	1/1/2008	29	9862	-271	-102.571019	-168.42898	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	2/1/2008	29	9893	-267	-105.633853	-161.36615	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	3/1/2008	29	9922	-267	-108.734254	-158.26575	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	4/1/2008	29	9953	-269	-110.550084	-158.44992	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	5/1/2008	29	9983	-274	-112.943052	-161.05695	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	6/1/2008	29	10014	-269	-111.931761	-157.06824	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	7/1/2008	29	10044	-269	-112.385285	-156.61472	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	8/1/2008	29	10075	-274	-114.129553	-159.87045	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	9/1/2008	29	10106	-271	-113.473821	-157.52618	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	10/1/2008	29	10136	-286	-118.177268	-167.82273	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	11/1/2008	29	10167	-255	-109.016337	-145.98366	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	12/1/2008	29	10197	-248	-107.05092	-140.94908	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	4/24/2011	32	11071	-247	-122.123693	-124.87631	-707	-729	291
3734605	6544971.755	19794277.32	128	92	1375796	486064	6	3/1/2013	34	11748	-244	-102.49577	-141.50423	-707	-729	291
3734806	6532542.294	19771390.94	131	87	1377048	486418	6	9/17/1982	3	625	-28	34.301289	-62.301289	-1056	-1076	368
3734806	6532542.294	19771390.94	131	87	1377048	486418	6	5/14/1988	9	2691	-64	39.681564	-103.68156	-1056	-1076	368
3734806	6532542.294	19771390.94	131	87	1377048	486418	6	12/13/1988	9	2904	-67.95	42.780352	-110.73035	-1056	-1076	368
3734807	6536459.819	19772791.23	131	88	1377049	486419	6	10/10/2003	24	8318	-74	-19.346078	-54.653922	-1043	-1053	338
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	2/25/1982	3	421	-199	-54.0119	-144.9881	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	11/11/1982	3	680	-158	-55.335149	-102.66485	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	11/15/1983	4	1049	-147	-50.578527	-96.421473	-893	-893	365

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	11/10/1984	5	1410	-170	-64.138668	-105.86133	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	10/10/1985	6	1744	-167	-65.702304	-101.2977	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	12/17/2005	26	9117	-98	-91.560432	-6.439568	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	11/4/2006	27	9439	-75	-126.247142	51.247142	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	9/25/2007	28	9764	-70	-94.081701	24.081701	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	1/1/2008	29	9862	-84	-93.342321	9.342321	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	2/1/2008	29	9893	-65	-101.935828	36.935828	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	3/1/2008	29	9922	-65	-107.96738	42.96738	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	4/1/2008	29	9953	-75	-109.743735	34.743735	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	5/1/2008	29	9983	-70	-111.041486	41.041486	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	6/1/2008	29	10014	-70	-111.737824	41.737824	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	7/1/2008	29	10044	-107	-112.383746	5.383746	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	8/1/2008	29	10075	-72	-112.728227	40.728227	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	9/1/2008	29	10106	-68	-113.072708	45.072708	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	10/1/2008	29	10136	-63	-113.359094	50.359094	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	11/1/2008	29	10167	-63	-113.553534	50.553534	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	12/1/2008	29	10197	-63	-113.741702	50.741702	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	4/24/2011	32	11071	-54	-141.827843	87.827843	-893	-893	365
3734902	6554542.22	19782261.27	131	92	1377053	486423	6	3/1/2013	34	11748	-86	-105.100991	19.100991	-893	-893	365
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	2/25/1982	3	421	-169	-52.393904	-116.6061	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	11/11/1982	3	680	-171	-53.737846	-117.26215	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	11/15/1983	4	1049	-168	-49.113108	-118.88689	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	11/10/1984	5	1410	-183	-62.546211	-120.45379	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	10/10/1985	6	1744	-191	-64.021824	-126.97818	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	2/25/1988	9	2612	-218	-45.04411	-172.95589	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	12/4/1991	12	3990	-193	-26.145596	-166.8544	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	12/17/2005	26	9117	-135	-77.414556	-57.585444	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	11/4/2006	27	9439	-140	-110.654331	-29.345669	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	10/23/2007	28	9792	-100	-79.83485	-20.16515	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	1/1/2008	29	9862	-100	-79.308119	-20.691881	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	2/1/2008	29	9893	-107	-87.312837	-19.687163	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	3/1/2008	29	9922	-107	-92.978016	-14.021984	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	4/1/2008	29	9953	-102	-94.77773	-7.22227	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	5/1/2008	29	9983	-128	-96.090286	-31.909714	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	6/1/2008	29	10014	-132	-96.789988	-35.210012	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	7/1/2008	29	10044	-137	-97.438957	-39.561043	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	8/1/2008	29	10075	-137	-97.784174	-39.215826	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	9/1/2008	29	10106	-118	-98.129392	-19.870608	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	10/1/2008	29	10136	-139	-98.416401	-40.583599	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	11/1/2008	29	10167	-111	-98.611288	-12.388712	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	12/1/2008	29	10197	-107	-98.799889	-8.200111	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	4/24/2011	32	11071	-93	-125.54587	32.54587	-815	-830	270
3735408	6557440.299	19786859.41	131	93	1377054	486424	6	3/1/2013	34	11748	-121	-91.060245	-29.939755	-815	-830	270
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	1/1/1981	2	1	-197	-65.317508	-131.68249	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	9/2/2006	27	9376	-132	-108.009936	-23.990064	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	10/2/2006	27	9406	-127	-108.608522	-18.391478	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	10/23/2007	28	9792	-67	-78.336667	11.336667	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	1/1/2008	29	9862	-70	-77.808636	7.808636	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	2/1/2008	29	9893	-79	-85.782604	6.782604	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	3/1/2008	29	9922	-78	-91.428212	13.428212	-779	-789	283

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	4/1/2008	29	9953	-81	-93.227747	12.227747	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	5/1/2008	29	9983	-95	-94.540824	-0.459176	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	6/1/2008	29	10014	-100	-95.242129	-4.757871	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	7/1/2008	29	10044	-109	-95.89263	-13.10737	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	8/1/2008	29	10075	-100	-96.239229	-3.760771	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	9/1/2008	29	10106	-93	-96.585828	3.585828	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	10/1/2008	29	10136	-100	-96.874101	-3.125899	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	11/1/2008	29	10167	-84	-97.070139	13.070139	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	12/1/2008	29	10197	-77	-97.259854	20.259854	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	4/24/2011	32	11071	-59	-123.953235	64.953235	-779	-789	283
3735409	6555477.746	19789908.79	130	93	1376562	486306	6	3/1/2013	34	11748	-66	-89.613331	23.613331	-779	-789	283
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	3/2/2006	27	9192	-68	-76.591214	8.591214	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	10/2/2006	27	9406	-176	-115.928751	-60.071249	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	10/23/2007	28	9792	-78	-66.881925	-11.118075	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	1/1/2008	29	9862	-46	-56.916477	10.916477	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	2/1/2008	29	9893	-60	-66.159041	6.159041	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	3/1/2008	29	9922	-74	-73.961774	-0.038226	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	4/1/2008	29	9953	-60	-71.000341	11.000341	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	5/1/2008	29	9983	-53	-69.804595	16.804595	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	6/1/2008	29	10014	-55	-70.888566	15.888566	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	7/1/2008	29	10044	-94	-83.037414	-10.962586	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	8/1/2008	29	10075	-67	-75.175789	8.175789	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	9/1/2008	29	10106	-51	-70.614165	19.614165	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	10/1/2008	29	10136	-106	-87.312183	-18.687817	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	11/1/2008	29	10167	-60	-73.646232	13.646232	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	12/1/2008	29	10197	-122	-92.375957	-29.624043	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	4/24/2011	32	11071	-30	-82.028624	52.028624	-884	-896	279
3735701	6562432.811	19778378.66	132	93	1377567	486545	6	3/1/2013	34	11748	-90	-78.089581	-11.910419	-884	-896	279
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	2/25/1982	3	421	-180	-44.837474	-135.16253		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	11/11/1982	3	680	-180	-46.165011	-133.83499		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	11/15/1983	4	1049	-169	-41.674868	-127.32513		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	11/10/1984	5	1410	-175	-54.605636	-120.39436		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	10/10/1985	6	1744	-183	-56.051291	-126.94871		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	11/1/1998	19	6514	-220	-45.983416	-174.01658		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	12/17/2005	26	9117	-110	-70.799543	-39.200457		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	11/4/2006	27	9439	-80	-103.065385	23.065385		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	10/23/2007	28	9792	-13	-73.190286	60.190286		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	1/1/2008	29	9862	-70	-72.665203	2.665203		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	2/1/2008	29	9893	-36	-80.353801	44.353801		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	3/1/2008	29	9922	-36	-85.81066	49.81066		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	4/1/2008	29	9953	-59	-87.586757	28.586757		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	5/1/2008	29	9983	-75	-88.883539	13.883539		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	6/1/2008	29	10014	-77	-89.577776	12.577776		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	7/1/2008	29	10044	-87	-90.221678	3.221678		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	8/1/2008	29	10075	-87	-90.564241	3.564241		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	9/1/2008	29	10106	-61	-90.906804	29.906804		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	10/1/2008	29	10136	-13	-91.191476	78.191476		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	11/1/2008	29	10167	-47	-91.384452	44.384452		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	12/1/2008	29	10197	-63	-91.571203	28.571203		-881	340
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	4/24/2011	32	11071	-32	-117.435955	85.435955		-881	340

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3735702	6558698.447	19780431.42	132	93	1377567	486545	6	3/1/2013	34	11748	-55	-84.210808	29.210808		-881	340
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	2/25/1982	3	421	-186	-36.21415	-149.78585	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	11/11/1982	3	680	-190	-37.515799	-152.4842	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	11/15/1983	4	1049	-177	-33.193857	-143.80614	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	11/10/1984	5	1410	-178	-45.545595	-132.45441	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	10/10/1985	6	1744	-187	-46.946387	-140.05361	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	12/15/1988	9	2906	-205	-22.99007	-182.00993	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	11/7/1990	11	3598	-238	-24.141196	-213.8588	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	11/11/1992	13	4333	-253	-9.466644	-243.53336	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	12/17/2005	26	9117	-146	-62.241777	-83.758223	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	11/4/2006	27	9439	-157	-93.299149	-63.700851	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	10/23/2007	28	9792	-105	-64.603625	-40.396375	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	1/1/2008	29	9862	-111	-64.082507	-46.917493	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	2/1/2008	29	9893	-107	-71.398989	-35.601011	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	3/1/2008	29	9922	-100	-76.605631	-23.394369	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	4/1/2008	29	9953	-109	-78.33842	-30.66158	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	5/1/2008	29	9983	-100	-79.606596	-20.393404	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	6/1/2008	29	10014	-114	-80.291635	-33.708365	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	7/1/2008	29	10044	-134	-80.927036	-53.072964	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	8/1/2008	29	10075	-102	-81.265439	-20.734561	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	9/1/2008	29	10106	-109	-81.603842	-27.396158	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	10/1/2008	29	10136	-111	-81.884943	-29.115057	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	11/1/2008	29	10167	-102	-82.075209	-19.924791	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	12/1/2008	29	10197	-100	-82.259337	-17.740663	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	4/24/2011	32	11071	-102	-107.045667	5.045667	-970	-980	320
3735703	6561805.025	19773381.31	133	92	1378061	486668	6	3/1/2013	34	11748	-136	-75.349005	-60.650995	-970	-980	320
3735705	6561913.714	19782003.49	132	93	1377567	486545	6	2/25/1982	3	421	-168	-45.895215	-122.10479	-817	-819	350
3735705	6561913.714	19782003.49	132	93	1377567	486545	6	11/11/1982	3	680	-160	-47.235316	-112.76468	-817	-819	350
3735705	6561913.714	19782003.49	132	93	1377567	486545	6	11/15/1983	4	1049	-148	-42.780711	-105.21929	-817	-819	350
3735705	6561913.714	19782003.49	132	93	1377567	486545	6	11/10/1984	5	1410	-152	-55.717161	-96.282839	-817	-819	350
3735705	6561913.714	19782003.49	132	93	1377567	486545	6	10/10/1985	6	1744	-120	-57.113964	-62.886036	-817	-819	350
3735705	6561913.714	19782003.49	132	93	1377567	486545	6	2/25/1988	9	2612	-135	-39.074957	-95.925043	-817	-819	350
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	9/2/2006	27	9376	-85	-78.177439	-6.822561	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	10/2/2006	27	9406	-97	-78.760454	-18.239546	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	10/23/2007	28	9792	-61	-51.880848	-9.119152	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	1/1/2008	29	9862	-54	-51.362457	-2.637543	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	2/1/2008	29	9893	-47	-58.136247	11.136247	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	3/1/2008	29	9922	-38	-63.011042	25.011042	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	4/1/2008	29	9953	-56	-64.7836	8.7836	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	5/1/2008	29	9983	-40	-66.07679	26.07679	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	6/1/2008	29	10014	-38	-66.767059	28.767059	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	7/1/2008	29	10044	-79	-67.407158	-11.592842	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	8/1/2008	29	10075	-61	-67.746219	6.746219	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	9/1/2008	29	10106	-63	-68.085279	5.085279	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	10/1/2008	29	10136	-26	-68.366861	42.366861	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	11/1/2008	29	10167	-49	-68.557286	19.557286	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	12/1/2008	29	10197	-45	-68.741569	23.741569	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	4/24/2011	32	11071	-59	-92.350944	33.350944	-857	-877	308
3735714	6567135.64	19779617.07	133	94	1378063	486670	6	3/1/2013	34	11748	-130	-62.660565	-67.339435	-857	-877	308
3735715	6564462.037	19781212.66	132	94	1377568	486546	6	1/1/1981	2	1	-194	-98.878734	-95.121266	-809	-814	361

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	6/16/1993	14	4550	-192	-70.526544	-121.47346	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	9/2/2006	27	9376	-100	-96.013536	-3.986464	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	10/2/2006	27	9406	-140	-108.425508	-31.574492	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	10/23/2007	28	9792	-49	-61.079309	12.079309	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	1/1/2008	29	9862	-67	-66.113204	-0.886796	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	2/1/2008	29	9893	-53	-67.085732	14.085732	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	3/1/2008	29	9922	-60	-72.875205	12.875205	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	4/1/2008	29	9953	-65	-75.62689	10.62689	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	5/1/2008	29	9983	-79	-80.739723	1.739723	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	6/1/2008	29	10014	-67	-77.626263	10.626263	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	7/1/2008	29	10044	-51	-73.277478	22.277478	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	8/1/2008	29	10075	-49	-72.916934	23.916934	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	9/1/2008	29	10106	-70	-79.45639	9.45639	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	10/1/2008	29	10136	-49	-73.355342	24.355342	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	11/1/2008	29	10167	-65	-78.290114	13.290114	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	12/1/2008	29	10197	-63	-77.820538	14.820538	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	4/24/2011	32	11071	-33	-86.443756	53.443756	-808	-820	350
3735716	6561999.854	19782007.6	132	93	1377567	486545	6	3/1/2013	34	11748	-61	-72.374263	11.374263	-808	-820	350
3735903	6586399.817	19780543.64	134	97	1378507	486798	6	12/14/1988	9	2905	-164	-91.624047	-72.375953	-794	-809	291
3735904	6587609.357	19775229.09	135	97	1378969	486933	6	12/15/1988	9	2906	-158.25	-51.88425	-106.36575	-881	-948	300
3735904	6587609.357	19775229.09	135	97	1378969	486933	6	3/6/2002	23	7735	-125	-28.344902	-96.655098	-881	-948	300
3736102	6598422.801	19802113.6	132	101	1470377	532732	7	11/12/1982	3	681	-143.91	-41.047792	-102.86221	-610	-614	200
3736102	6598422.801	19802113.6	132	101	1470377	532732	7	11/13/1984	5	1413	-144	-49.181832	-94.818168	-610	-614	200
3736102	6598422.801	19802113.6	132	101	1470377	532732	7	11/7/1985	6	1772	-151.05	-49.822115	-101.22789	-610	-614	200
3736102	6598422.801	19802113.6	132	101	1470377	532732	7	11/7/1986	7	2137	-138.36	-48.810509	-89.549491	-610	-614	200
3736102	6598422.801	19802113.6	132	101	1470377	532732	7	10/17/1989	10	3212	-136	-87.85897	-48.14103	-610	-614	200
3736102	6598422.801	19802113.6	132	101	1470377	532732	7	12/7/1991	12	3993	-97.7	-6.283782	-91.416218	-610	-614	200
3736102	6598422.801	19802113.6	132	101	1470377	532732	7	11/13/1992	13	4335	-89.95	0.501866	-90.451866	-610	-614	200
3736403	6600749.001	19788134.52	134	100	1378510	486801	6	11/13/1982	3	682	-142.85	-43.990633	-98.859367	-637	-643	204
3736403	6600749.001	19788134.52	134	100	1378510	486801	6	11/16/1983	4	1050	-142.43	-40.106871	-102.32313	-637	-643	204
3736403	6600749.001	19788134.52	134	100	1378510	486801	6	11/9/1984	5	1409	-149.79	-51.577918	-98.212082	-637	-643	204
3736403	6600749.001	19788134.52	134	100	1378510	486801	6	11/9/1985	6	1774	-153.2	-52.346395	-100.85361	-637	-643	204
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/13/1982	3	682	-74.78	-30.515113	-44.264887	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/9/1984	5	1409	-76.37	-37.700364	-38.669636	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/9/1985	6	1774	-81.1	-38.347351	-42.752649	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/14/1986	7	2144	-84.26	-37.051153	-47.208847	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	9/25/1987	8	2459	-79.28	-34.577941	-44.702059	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	12/14/1988	9	2905	-70.4	-16.12971	-54.27029	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	10/11/1989	10	3206	-69.1	-74.704473	5.604473	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/7/1990	11	3598	-66.17	-9.02013	-57.14987	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	12/4/1991	12	3990	-50.87	4.473211	-55.343211	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/10/1992	13	4332	-44.1	11.253944	-55.353944	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/17/1993	14	4704	-44.4	4.57816	-48.97816	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	2/1/1995	16	5145	-48.3	-1.441977	-46.858023	-589	-590	211
3736501	6608519.329	19790339.55	135	102	1378974	486938	6	11/15/1995	16	5432	-51.38	-9.28574	-42.09426	-589	-590	211
3736802	6609705.495	19783808.34	136	101	1379456	487102	6	11/9/1984	5	1409	-90.99	-20.682355	-70.307645	-655	-667	244
3736802	6609705.495	19783808.34	136	101	1379456	487102	6	11/14/1986	7	2144	-87.2	-20.113384	-67.086616	-655	-667	244
3736802	6609705.495	19783808.34	136	101	1379456	487102	6	12/14/1988	9	2905	-80.35	-0.596235	-79.753765	-655	-667	244
3736802	6609705.495	19783808.34	136	101	1379456	487102	6	10/11/1989	10	3206	-80.4	-54.391804	-26.008196	-655	-667	244
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	11/12/1982	3	681	66.15	101.736657	-35.586657		-705	220

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	11/11/1983	4	1045	62.68	103.235656	-40.555656		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	11/13/1984	5	1413	61.9	99.13849	-37.23849		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	11/8/1985	6	1773	61.25	98.373382	-37.123382		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	12/13/1988	9	2904	58.8	107.154429	-48.354429		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	10/17/1989	10	3212	62.08	84.132811	-22.052811		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	11/8/1990	11	3599	61.16	109.104488	-47.944488		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	12/7/1991	12	3993	64.4	115.564219	-51.164219		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	11/13/1992	13	4335	66.65	119.083316	-52.433316		-705	220
3737804	6656145.774	19774660.6	142	108	1382517	488067	6	11/19/1993	14	4706	66.7	115.432551	-48.732551		-705	220
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/12/1982	3	681	200.7	222.33574	-21.63574		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/11/1983	4	1045	200.72	222.925248	-22.205248		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/13/1984	5	1413	200.25	225.801916	-25.551916		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	12/30/1987	8	2555	200.15	220.609175	-20.459175		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	10/17/1989	10	3212	199.2	226.759057	-27.559057		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/8/1990	11	3599	198.22	224.793529	-26.573529		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	12/7/1991	12	3993	199.35	224.153253	-24.803253		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/13/1992	13	4335	198.4	228.437641	-30.037641		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/19/1993	14	4706	198.3	222.984104	-24.684104		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/16/1994	15	5068	198.9	221.196631	-22.296631		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/8/1995	16	5425	198.37	225.968386	-27.598386		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/20/1996	17	5803	197.9	221.312329	-23.412329		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/7/1997	18	6155	198.35	225.352788	-27.002788		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/19/1998	19	6532	198.1	224.788745	-26.688745		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/12/1999	20	6890	197.1	228.655313	-31.555313		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/15/2000	21	7259	196.6	226.448432	-29.848432		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/9/2001	22	7618	197.1	224.616413	-27.516413		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/20/2002	23	7994	197.32	224.490726	-27.170726		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/7/2003	24	8346	196.75	226.22112	-29.47112		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/5/2004	25	8710	197.45	225.317472	-27.867472		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	12/7/2005	26	9107	196.79	225.420384	-28.630384		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/11/2006	27	9446	197.77	223.460629	-25.690629		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/8/2007	28	9808	196.79	223.287242	-26.497242		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/7/2008	29	10173	196.38	223.063781	-26.683781		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	12/5/2009	30	10566	195.62	221.691599	-26.071599		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/11/2010	31	10907	194.7	221.724481	-27.024481		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/28/2012	33	11655	190.82	221.671468	-30.851468		-19	281
3738403	6681171.982	19796818.21	140	114	864939	324680	2	11/20/2013	34	12012	192.19	225.409804	-33.219804		-19	281
3738404	6678592.574	19801553.43	139	114	863946	324055	2	8/24/2003	24	8271	186	207.94461	-21.94461	87	85	250
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/11/1999	20	6889	218	257.898539	-39.898539		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/15/2000	21	7259	216.98	256.55995	-39.57995		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/8/2001	22	7617	217.38	255.485456	-38.105456		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	3/21/2002	23	7750	217.75	255.424271	-37.674271		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/7/2003	24	8346	216.93	256.382045	-39.452045		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/5/2004	25	8710	217.6	256.060549	-38.460549		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	12/8/2005	26	9108	216.17	256.20313	-40.03313		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/11/2006	27	9446	216.23	255.071277	-38.841277		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/10/2007	28	9810	216.91	254.830329	-37.920329		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/18/2008	29	10184	216.99	254.781949	-37.791949		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	12/5/2009	30	10566	216.95	253.737705	-36.787705		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/10/2010	31	10906	215	253.932873	-38.932873		-40	265

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3740702	6750186.097	19785207.35	148	125	873301	329559	2	10/21/2011	32	11251	212.35	253.030047	-40.680047		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/29/2012	33	11656	215.52	254.042111	-38.522111		-40	265
3740702	6750186.097	19785207.35	148	125	873301	329559	2	11/21/2013	34	12013	215.54	256.335326	-40.795326		-40	265
3741401	6479969.319	19748697.52	130	77	854336	318107	2	4/10/2002	23	7770	191.5	210.886243	-19.386243		-150	220
3742202	6538992.339	19768652.32	132	88	1377562	486540	6	5/17/1988	9	2694	-94	-7.183297	-86.816703	-1037	-1042	350
3742304	6545991.027	19765332.4	133	89	1378058	486665	6	3/7/2002	23	7736	-85	-31.293393	-53.706607	-1090	-1090	320
3743102	6555972.959	19764892.45	134	91	1378501	486792	6	5/16/1988	9	2693	-128	-32.538805	-95.461195	-1130	-1160	340
3743102	6555972.959	19764892.45	134	91	1378501	486792	6	12/13/1988	9	2904	-115	-26.461748	-88.538252	-1130	-1160	340
3744202	6609337.45	19761283.06	140	99	1381362	487761	6	10/24/1999	20	6871	-80	-12.068112	-67.931888	-1045	-1085	265
3744202	6609337.45	19761283.06	140	99	1381362	487761	6	1/1/2001	22	7306	-124	9.210622	-133.21062	-1045	-1085	265
3744202	6609337.45	19761283.06	140	99	1381362	487761	6	11/2/2005	26	9072	-41	22.059032	-63.059032	-1045	-1085	265
3745301	6659791.311	19767645.85	143	108	867915	326181	2	4/28/1998	19	6327	60	161.128381	-101.12838	-874	-874	240
3745301	6659791.311	19767645.85	143	108	867915	326181	2	7/25/2003	24	8241	68.62	164.704605	-96.084605	-874	-874	240
3748305	6786555.204	19771035.2	154	129	1179453	428174	4	12/8/1982	3	707	197.47	224.546382	-27.076382	-552	-619	380
3748305	6786555.204	19771035.2	154	129	1179453	428174	4	11/11/1983	4	1045	192.68	224.809187	-32.129187	-552	-619	380
3748305	6786555.204	19771035.2	154	129	1179453	428174	4	2/25/1988	9	2612	191.2	223.756717	-32.556717	-552	-619	380
3748305	6786555.204	19771035.2	154	129	1179453	428174	4	1/24/1989	10	2946	200.8	226.381207	-25.581207	-552	-619	380
3748305	6786555.204	19771035.2	154	129	1179453	428174	4	12/1/1989	10	3257	198.2	225.882159	-27.682159	-552	-619	380
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	3/20/1981	2	79	246.78	259.946053	-13.166053	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/19/1981	2	323	248.11	259.858608	-11.748608	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/19/1983	4	1053	242.97	259.538616	-16.568616	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/9/1984	5	1409	245.09	260.269235	-15.179235	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/9/1985	6	1774	244.73	259.041084	-14.311084	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/20/1986	7	2150	245.51	256.616041	-11.106041	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	12/10/1987	8	2535	247.91	256.572723	-8.662723	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	12/1/1988	9	2892	249.17	258.73172	-9.56172	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	10/12/1989	10	3207	250.3	259.631637	-9.331637	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	10/16/1990	11	3576	251.75	259.439675	-7.689675	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/23/1991	12	3979	253.3	259.054435	-5.754435	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	2/24/1993	14	4438	253.52	260.170772	-6.650772	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	12/15/1994	15	5097	252.95	257.192118	-4.242118	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/7/1995	16	5424	252.2	258.722274	-6.522274	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/12/1996	17	5795	252.6	256.816444	-4.216444	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/12/1997	18	6160	251.03	258.085124	-7.055124	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/19/1998	19	6532	250.11	258.051488	-7.941488	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/7/2002	23	7981	248.25	258.55642	-10.30642	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	9/25/2003	24	8303	247.78	259.049269	-11.269269	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	1/11/2006	27	9142	247.38	258.648104	-11.268104	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/9/2006	27	9444	247.63	257.696424	-10.066424	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	2/6/2008	29	9898	247.7	257.364068	-9.664068	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/6/2008	29	10172	246.02	257.155722	-11.135722	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/18/2009	30	10549	246.85	256.504044	-9.654044	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/16/2010	31	10912	246.4	256.304024	-9.904024	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/29/2011	32	11290	245.16	255.201001	-10.041001	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/13/2012	33	11640	243.93	255.589263	-11.659263	-205	-205	305
3801102	6159522.76	19968851.7	64	44	1513844	559256	8	11/15/2013	34	12007	243.02	257.429242	-14.409242	-205	-205	305
3801504	6184825.194	19952245.74	69	46	1335895	475647	6	9/9/1981	2	252	335	259.140366	75.859634	309	309	375
3801504	6184825.194	19952245.74	69	46	1335895	475647	6	9/15/1993	14	4641	348.12	255.446308	92.673692	309	309	375
3801504	6184825.194	19952245.74	69	46	1335895	475647	6	3/13/2002	23	7742	340.6	255.916677	84.683323	309	309	375
3801807	6185486.269	19941326.08	71	46	1433452	514423	7	3/19/1996	17	5557	238.52	241.103565	-2.583565	-275	-282	310

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3801808	6184884.545	19941303.88	71	45	1433451	514422	7	7/6/1989	10	3109	191	219.025327	-28.025327	-329	-337	316
3801905	6185833.9	19941237.5	71	46	1433452	514423	7	9/13/1989	10	3178	142.78	216.421845	-73.641845	-262	-684	316
3801905	6185833.9	19941237.5	71	46	1433452	514423	7	3/19/1996	17	5557	234.51	241.057439	-6.547439	-262	-684	316
3802303	6235211.245	19969342.9	71	56	1517153	561548	8	3/6/1987	8	2256	246	249.588206	-3.588206	-499	-514	461
3802304	6224606.431	19978969.94	68	55	1431619	513372	7	12/22/1984	5	1452	320	291.683648	28.316352	-50	-50	490
3802304	6224606.431	19978969.94	68	55	1431619	513372	7	10/14/1989	10	3209	295.05	280.773438	14.276562	-50	-50	490
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/19/1981	2	323	280.7	272.003001	8.696999	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/19/1983	4	1053	278.47	269.705763	8.764237	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/9/1984	5	1409	271.16	271.37881	-0.21881	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/9/1985	6	1774	276.17	267.948452	8.221548	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/20/1986	7	2150	274.26	260.957598	13.302402	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	12/10/1987	8	2535	274.01	261.132538	12.877462	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	12/1/1988	9	2892	266.05	266.482546	-0.432546	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	10/14/1989	10	3209	269.35	268.921668	0.428332	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	10/16/1990	11	3576	269.11	268.016797	1.093203	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/23/1991	12	3979	266.25	267.276814	-1.026814	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	2/24/1993	14	4438	263.2	267.70101	-4.50101	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	2/10/1994	15	4789	267.96	264.160787	3.799213	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	12/15/1994	15	5097	267.3	260.719381	6.580619	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/12/1997	18	6160	263.91	262.535467	1.374533	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/19/1998	19	6532	262.94	262.001255	0.938745	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/19/1999	20	6897	260.8	266.401129	-5.601129	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/7/2000	21	7251	259.3	268.680674	-9.380674	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/7/2001	22	7616	255.25	266.806879	-11.556879	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/7/2002	23	7981	253.85	265.731223	-11.881223	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	9/25/2003	24	8303	254.47	266.140384	-11.670384	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/12/2004	25	8717	253.73	264.669009	-10.939009	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	1/11/2006	27	9142	253.36	264.882115	-11.522115	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/9/2006	27	9444	251.16	261.215921	-10.055921	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	2/6/2008	29	9898	250.35	261.263358	-10.913358	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/6/2008	29	10172	249.8	260.02411	-10.22411	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/18/2009	30	10549	249.32	258.886226	-9.566226	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/16/2010	31	10912	247.8	257.844932	-10.044932	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/29/2011	32	11290	244.59	253.450449	-8.860449	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/13/2012	33	11640	241.78	255.078768	-13.298768	-138	-199	431
3802402	6206287.685	19958313.7	70	51	1432818	514066	7	11/15/2013	34	12007	242.07	261.409942	-19.339942	-138	-199	431
3802606	6234380.694	19957352.54	73	55	1518019	562179	8	10/13/1989	10	3208	263.25	258.156542	5.093458	-514	-534	451
3802606	6234380.694	19957352.54	73	55	1518019	562179	8	3/19/1996	17	5557	258.57	255.111226	3.458774	-514	-534	451
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	3/20/1981	2	79	472.25	424.012909	48.237091	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/19/1981	2	323	470.08	423.374768	46.705232	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/18/1983	4	1052	467.47	436.3888	31.0812	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/9/1985	6	1774	465.08	424.248088	40.831912	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/20/1986	7	2150	468.01	417.640992	50.369008	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	12/10/1987	8	2535	468.35	418.929604	49.420396	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	12/1/1988	9	2892	466.76	426.837425	39.922575	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	10/14/1989	10	3209	468.12	428.389941	39.730059	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	10/16/1990	11	3576	470.35	426.017008	44.332992	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/23/1991	12	3979	476	424.477124	51.522876	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	2/24/1993	14	4438	478.61	427.36867	51.24133	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	2/10/1994	15	4789	478.07	422.338863	55.731137	447	447	524

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	12/15/1994	15	5097	475.88	419.927116	55.952884	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/7/1995	16	5424	477.85	425.799794	52.050206	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/12/1996	17	5795	473.3	420.581353	52.718647	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/12/1997	18	6160	472	424.849858	47.150142	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/19/1998	19	6532	471.12	424.733441	46.386559	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/19/1999	20	6897	471.9	428.928967	42.971033	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/7/2000	21	7251	468.45	427.071952	41.378048	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/7/2001	22	7616	470	424.917995	45.082005	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/7/2002	23	7981	468.1	424.331949	43.768051	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	9/25/2003	24	8303	468.43	425.981491	42.448509	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/12/2004	25	8717	466.95	425.542091	41.407909	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	1/11/2006	27	9142	465.87	425.637205	40.232795	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/9/2006	27	9444	464.05	423.706683	40.343317	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	2/6/2008	29	9898	464.08	422.79443	41.28557	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/6/2008	29	10172	464.85	422.61537	42.23463	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/16/2010	31	10912	465.65	420.496181	45.153819	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/29/2011	32	11290	462.82	418.330167	44.489833	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/13/2012	33	11640	460.3	420.1817	40.1183	447	447	524
3803101	6244661.484	19971936.2	71	58	1116298	411537	4	11/14/2013	34	12006	456.3	424.974035	31.325965	447	447	524
3803603	6269465.599	19955979.71	76	61	1340932	477206	6	11/20/1986	7	2150	280	265.079471	14.920529	-120	-121	715
3803603	6269465.599	19955979.71	76	61	1340932	477206	6	9/16/1989	10	3181	245	252.715382	-7.715382	-120	-121	715
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	11/19/1981	2	323	434.52	316.695247	117.82475	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	11/18/1983	4	1052	434.73	315.022315	119.70769	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	11/9/1984	5	1409	433.49	315.292833	118.19717	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	11/9/1985	6	1774	431.83	312.736144	119.09386	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	11/19/1986	7	2149	433.97	308.625534	125.34447	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	12/10/1987	8	2535	434.52	308.211673	126.30833	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	12/1/1988	9	2892	433.54	310.94775	122.59225	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	10/14/1989	10	3209	434.65	313.486757	121.16324	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	10/16/1990	11	3576	433.32	313.048234	120.27177	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	11/23/1991	12	3979	431.8	312.45927	119.34073	229	229	650
3803703	6248469.348	19940262.52	77	56	1341722	477465	6	2/24/1993	14	4438	439.13	316.675724	122.45428	229	229	650
3803805	6250932.973	19952215.33	75	57	1518660	562647	8	3/13/2002	23	7742	251.7	252.284308	-0.584308	-588	-588	732
3803806	6250003.362	19951773.93	75	57	1518660	562647	8	9/11/2003	24	8289	218	234.972971	-16.972971	-1076	-1076	703
3804102	6277264.878	19969868.08	74	63	1119111	412205	4	3/14/2002	23	7743	452.7	407.959242	44.740758	438	438	460
3804202	6297782.068	19977477.18	75	67	1435849	516040	7	7/11/1995	16	5305	220	235.264968	-15.264968	-325	-390	450
3804307	6301295.321	19977821.19	75	68	1340117	477013	6	8/19/2011	32	11188	184	214.632198	-30.632198	-287	-297	500
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/19/1981	2	323	399.91	381.309957	18.600043	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/18/1983	4	1052	399.5	381.069358	18.430642	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/9/1985	6	1774	399.84	382.296439	17.543561	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/19/1986	7	2149	399.95	374.820133	25.129867	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	12/10/1987	8	2535	398.84	376.869765	21.970235	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/30/1988	9	2891	398.04	386.167042	11.872958	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	10/17/1989	10	3212	398.6	387.896743	10.703257	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	10/13/1990	11	3573	399.71	384.674944	15.035056	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/23/1991	12	3979	397.9	382.837691	15.062309	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	2/24/1993	14	4438	401.56	386.246596	15.313404	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/8/1995	16	5425	400.38	384.942163	15.437837	243	243	583
3804403	6283540.083	19963529.66	76	64	1121370	412734	4	11/12/1996	17	5795	401.2	378.075659	23.124341	243	243	583
3804805	6296520.786	19942461.7	81	64	1345090	478366	6	11/19/1981	2	323	251.61	250.820384	0.789616	-197	-197	510

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3805607	6347987.662	19968080.62	81	75	1345113	478389	6	2/17/1989	10	2970	326.1	264.345901	61.754099	188	182	400
3805608	6349991.768	19971610.41	81	76	1345114	478390	6	9/23/1988	9	2823	218	225.209297	-7.209297	10	1	415
3805703	6320275.357	19953356.11	81	69	1126605	413524	4	3/15/2002	23	7744	339.48	329.081668	10.398332	317	317	375
3805806	6340006.12	19955080	83	72	1128745	413838	4	3/15/1988	9	2631	302.45	298.790267	3.659733	295	295	330
3805903	6341792.014	19953532.57	83	73	1346749	478719	6	7/16/1984	5	1293	188	215.167776	-27.167776	3	-2	348
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	3/18/1981	2	77	370.1	346.482061	23.617939		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	3/18/1982	3	442	369.5	345.194492	24.305508		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	11/9/1982	3	678	368.7	344.47241	24.22759		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	11/8/1983	4	1042	369.31	345.658768	23.651232		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	11/15/1984	5	1415	369.24	352.120122	17.119878		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	11/10/1985	6	1775	368.88	350.024154	18.855846		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	12/14/1986	7	2174	369.33	340.337499	28.992501		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	11/18/1987	8	2513	369.06	343.065617	25.994383		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	10/19/1989	10	3214	371.9	361.289343	10.610657		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	11/16/1990	11	3607	374.22	358.930875	15.289125		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	12/12/1991	12	3998	381.63	355.299538	26.330462		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	11/20/1992	13	4342	382.3	359.48667	22.81333		335	485
3806106	6352540.537	19974453.44	81	76	1126669	413540	4	12/17/1993	14	4734	382.67	351.817891	30.852109		335	485
3806107	6363322.728	19982000.7	80	79	1125649	413412	4	6/1/1983	4	882	525	426.089294	98.910706	515	515	551
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	3/18/1982	3	442	469.16	390.871678	78.288322		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/9/1982	3	678	468.75	389.829949	78.920051		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/8/1983	4	1042	468.42	390.240906	78.179094		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/15/1984	5	1415	469.85	396.537092	73.312908		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	12/14/1986	7	2174	463.74	407.815528	55.924472		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/18/1987	8	2513	469.41	383.159611	86.250389		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	12/8/1988	9	2899	469.88	395.257762	74.622238		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	10/19/1989	10	3214	468.26	401.194848	67.065152		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/16/1990	11	3607	473.45	399.297516	74.152484		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	12/12/1991	12	3998	471.83	396.210792	75.619208		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/20/1992	13	4342	469.08	401.992361	67.087639		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	12/12/1993	14	4729	469.7	394.208163	75.491837		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	2/3/1995	16	5147	473.2	387.583858	85.616142		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/10/1995	16	5427	468.2	416.337731	51.862269		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/14/1996	17	5797	467.7	387.798927	79.901073		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/14/1997	18	6162	469.53	392.395972	77.134028		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/19/1998	19	6532	470.82	392.770318	78.049682		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/19/1999	20	6897	468.95	399.090845	69.859155		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/9/2000	21	7253	470.68	398.403834	72.276166		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/8/2001	22	7617	470.9	395.257091	75.642909		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/7/2002	23	7981	470.6	392.962776	77.637224		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	9/25/2003	24	8303	468.58	395.655442	72.924558		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/12/2004	25	8717	470.33	394.457638	75.872362		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	1/14/2006	27	9145	468.6	393.224446	75.375554		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/11/2006	27	9446	468.41	389.168253	79.241747		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	2/7/2008	29	9899	468.05	386.585901	81.464099		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/7/2008	29	10173	469.25	385.403229	83.846771		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/22/2009	30	10553	471.39	381.97515	89.41485		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/18/2010	31	10914	469.62	380.17413	89.44587		450	486
3806205	6367517.797	19980454.69	81	79	1126672	413543	4	11/14/2012	33	11641	468.43	376.738971	91.691029		450	486
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/9/1982	3	678	193	223.047574	-30.047574	-61	-78	629

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/15/1984	5	1415	202.83	234.105702	-31.275702	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/10/1985	6	1775	196.17	231.911409	-35.741409	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	12/14/1986	7	2174	198.14	223.664852	-25.524852	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/18/1987	8	2513	192.27	221.916915	-29.646915	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	12/15/1988	9	2906	186.57	223.2572	-36.6872	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	10/19/1989	10	3214	188.7	230.140218	-41.440218	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/16/1990	11	3607	185.72	232.515913	-46.795913	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	12/12/1991	12	3998	193.62	235.519265	-41.899265	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/20/1992	13	4342	192.88	235.942656	-43.062656	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	3/27/1993	14	4469	194.75	232.754556	-38.004556	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	12/14/1993	14	4731	190.66	228.466039	-37.806039	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	2/3/1995	16	5147	199.9	222.110649	-22.210649	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/10/1995	16	5427	175.94	226.108321	-50.168321	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/14/1997	18	6162	176.41	223.377132	-46.967132	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/19/1999	20	6897	168.75	229.914257	-61.164257	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/9/2000	21	7253	163.5	230.832779	-67.332779	-61	-78	629
3806408	6356818.269	19958618.28	84	75	1347624	478887	6	11/8/2001	22	7617	165.7	227.490468	-61.790468	-61	-78	629
3806409	6353897.851	19960523.2	83	75	1128756	413849	4	9/30/1987	8	2464	401	366.32902	34.67098	346	341	461
3806503	6373417.243	19963068.48	84	79	1347628	478891	6	5/18/1986	7	1964	437	324.676139	112.32386	345	345	500
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/10/1982	3	679	40.87	207.762814	-166.89281	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/8/1983	4	1042	34.58	154.621469	-120.04147	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/16/1984	5	1416	48.02	203.896465	-155.87647	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/10/1985	6	1775	49.74	202.21921	-152.47921	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	12/13/1986	7	2173	41.39	192.006396	-150.6164	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/14/1987	8	2509	98	186.731863	-88.731863	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	12/9/1988	9	2900	83	188.486657	-105.48666	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	10/19/1989	10	3214	83	196.630992	-113.63099	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/16/1990	11	3607	32.85	201.607918	-168.75792	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/20/1992	13	4342	6	143.403253	-137.40325	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	3/20/1993	14	4462	3	197.831744	-194.83174	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/24/1996	17	5807	-26	124.577875	-150.57788	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/19/1999	20	6897	-54	190.902837	-244.90284	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/9/2000	21	7253	-10	128.364173	-138.36417	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	9/24/2003	24	8302	53	180.020059	-127.02006	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	1/12/2006	27	9143	-24	184.307039	-208.30704	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/10/2006	27	9445	-14	172.544356	-186.54436	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	2/7/2008	29	9899	8	180.588088	-172.58809	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/7/2008	29	10173	-13	175.335767	-188.33577	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/15/2012	33	11642	-78	169.475052	-247.47505	-187	-202	498
3806603	6385867.697	19971454.16	84	81	1442400	520275	7	11/14/2013	34	12006	30.31	184.086647	-153.77665	-187	-202	498
3806608	6386926.288	19971246.21	84	82	1129738	413971	4	10/29/1987	8	2493	405	391.076272	13.923728	300	295	500
3806805	6378470.988	19949499	87	78	1350303	479574	6	11/11/1987	8	2506	465	338.396924	126.60308	320	316	645
3807105	6402363.334	19982451.78	84	85	1129741	413974	4	8/16/1984	5	1324	360	362.516068	-2.516068	75	65	370
3807106	6403529.924	19979360.19	84	85	1129741	413974	4	3/16/1988	9	2632	357.3	355.807703	1.492297	160	150	355
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	11/21/1981	2	325	269.95	242.601539	27.348461		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	3/18/1982	3	442	270.6	243.93788	26.66212		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	11/2/1982	3	671	271.78	243.456273	28.323727		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	11/9/1983	4	1043	266.47	242.230521	24.239479		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	11/10/1985	6	1775	266.37	239.831449	26.538551		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	12/13/1986	7	2173	265.59	231.956184	33.633816		195	360

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	10/18/1989	10	3213	260.23	236.196574	24.033426		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	11/16/1990	11	3607	264.93	239.892362	25.037638		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	12/12/1991	12	3998	269.65	243.532359	26.117641		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	11/19/1992	13	4341	269.77	242.598615	27.171385		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	12/12/1993	14	4729	269.05	235.372384	33.677616		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	2/3/1995	16	5147	270.1	228.630076	41.469924		195	360
3807203	6406281.756	19989311.62	83	86	1346762	478732	6	11/10/1995	16	5427	266.35	231.848738	34.501262		195	360
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/21/1981	2	325	267.49	260.271149	7.218851		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	3/18/1982	3	442	267.53	260.623126	6.906874		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/2/1982	3	671	265.2	260.301257	4.898743		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/9/1983	4	1043	263.89	259.681871	4.208129		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/16/1984	5	1416	261.79	260.365059	1.424941		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/10/1985	6	1775	260.29	258.523179	1.766821		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	12/13/1986	7	2173	262.16	252.244104	9.915896		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/13/1987	8	2508	255.65	250.820394	4.829606		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	12/10/1988	9	2901	254	252.211692	1.788308		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	10/18/1989	10	3213	250.2	256.464327	-6.264327		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/15/1990	11	3606	250.33	258.210339	-7.880339		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	12/12/1991	12	3998	247.3	260.379256	-13.079256		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	11/19/1992	13	4341	244.53	261.54021	-17.01021		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	12/12/1993	14	4729	242.75	255.913407	-13.163407		-70	395
3807305	6428656.431	19985222.02	86	90	1443996	521271	7	2/3/1995	16	5147	248.1	251.381604	-3.281604		-70	395
3807403	6394728.14	19961952.06	87	82	1132933	414479	4	4/27/1988	9	2674	474.43	413.965489	60.464511	430	430	480
3807404	6394444.033	19962547.75	86	82	1131880	414334	4	4/27/1988	9	2674	444.3	404.706093	39.593907	400	400	460
3807409	6394531.786	19974512.28	84	83	1442402	520277	7	7/16/1985	6	1658	17	150.043907	-133.04391	-243	-263	457
3807509	6410893.731	19968327.96	87	85	1132936	414482	4	3/29/2002	23	7758	338.07	341.308845	-3.238845		328	365
3807703	6403311.924	19946611.63	90	82	1352143	480108	6	4/27/1988	9	2674	483.2	352.36549	130.83451	123	123	523
3807705	6401795.179	19951816.95	89	82	1445842	522467	7	2/2/1988	9	2589	205	212.504593	-7.504593	-182	-182	435
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	3/18/1982	3	442	251.05	245.976905	5.073095	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	11/10/1982	3	679	249.1	246.882465	2.217535	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	11/10/1985	6	1775	248.8	244.908415	3.891585	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	12/13/1986	7	2173	248.92	238.410928	10.509072	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	12/11/1988	9	2902	248.1	242.154805	5.945195	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	3/17/1993	14	4459	248.25	247.511838	0.738162	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	12/12/1993	14	4729	249.7	243.787525	5.912475	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	11/11/1995	16	5428	249.15	243.039517	6.110483	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	11/13/1997	18	6161	246.9	241.170092	5.729908	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	11/18/1998	19	6531	241.55	239.318895	2.231105	30	30	400
3807902	6424747.344	19950789.46	91	86	1446908	522983	7	11/10/2000	21	7254	244.05	243.42882	0.62118	30	30	400
3807907	6426023.459	19951149.84	91	86	1446908	522983	7	8/24/2007	28	9732	272	254.969795	17.030205	14	14	352
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/21/1981	2	325	267.3	266.479462	0.820538	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	3/18/1982	3	442	268	266.289825	1.710175	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/2/1982	3	671	266.44	266.040739	0.399261	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/10/1985	6	1775	252.84	264.969413	-12.129413	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	10/18/1989	10	3213	248.2	263.47815	-15.27815	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/15/1990	11	3606	247.62	264.298768	-16.678768	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	12/12/1991	12	3998	243.3	266.02306	-22.72306	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/19/1992	13	4341	240.1	267.433186	-27.333186	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	3/24/1993	14	4466	240.36	265.443498	-25.083498	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	12/17/1993	14	4734	237.1	262.680568	-25.580568	-476	-491	517

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	2/3/1995	16	5147	246.6	259.366957	-12.766957	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/10/1995	16	5427	230.21	261.953815	-31.743815	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/14/1996	17	5797	226.1	249.252849	-23.152849	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/13/1997	18	6161	214.62	259.795203	-45.175203	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/18/1998	19	6531	214.38	245.630769	-31.250769	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/18/1999	20	6896	213.8	248.338195	-34.538195	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/9/2000	21	7253	212.6	247.514718	-34.914718	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/8/2001	22	7617	213.25	260.850807	-47.600807	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/8/2002	23	7982	211.8	261.363502	-49.563502	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	9/25/2003	24	8303	209	259.432083	-9.432083	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/10/2004	25	8715	206.59	256.365783	-49.775783	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	1/12/2006	27	9143	202.7	259.400306	-56.700306	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/10/2006	27	9445	202.3	255.213015	-52.913015	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	2/6/2008	29	9898	203.5	257.10235	-53.60235	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/7/2008	29	10173	198.8	255.142832	-56.342832	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/19/2009	30	10550	183.53	234.068312	-50.538312	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/18/2010	31	10914	185.3	253.807662	-68.507662	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	12/1/2011	32	11292	200.11	233.604315	-33.494315	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/14/2012	33	11641	206.39	250.356236	-43.966236	-476	-491	517
3808105	6439991.402	19983391.9	87	92	1444718	521751	7	11/14/2013	34	12006	204.9	257.717115	-52.817115	-476	-491	517
3808108	6438512.029	19982211.06	87	91	1444717	521750	7	6/1/1988	9	2709	247	252.750522	-5.750522	-437	-439	473
3808112	6440809.416	19986671.88	87	92	1350317	479588	6	7/1/1983	4	912	325	285.471367	39.528633	215	215	435
3808113	6441347.417	19988114.93	87	92	1350317	479588	6	8/4/1983	4	946	321	285.222707	35.772793	261	261	441
3808114	6441776.771	19988134.01	87	92	1350317	479588	6	8/18/1983	4	960	321	270.161782	50.838218	176	176	446
3808114	6441776.771	19988134.01	87	92	1350317	479588	6	3/17/1988	9	2633	322.9	264.424056	58.475944	176	176	446
3808115	6440523.788	19983415.5	87	92	1350317	479588	6	7/14/1985	6	1656	243	258.923391	-15.923391	-27	-32	498
3808115	6440523.788	19983415.5	87	92	1350317	479588	6	3/17/1988	9	2633	249.4	257.062385	-7.662385	-27	-32	498
3808117	6440546.838	19984835.67	87	92	1350317	479588	6	7/17/1985	6	1659	443	354.833267	88.166733	248	238	488
3808118	6440914.662	19992048.8	86	92	1349468	479372	6	7/11/1987	8	2383	350	290.897734	59.102266	225	220	440
3808119	6440782.448	19987279	87	92	1350317	479588	6	2/16/1989	10	2969	423.45	312.014499	111.4355	375	375	425
3808120	6441668.36	19988636.06	86	92	1349468	479372	6	10/26/1985	6	1760	330	269.810069	60.189931	195	190	430
3808120	6441668.36	19988636.06	86	92	1349468	479372	6	2/16/1989	10	2969	317.6	281.389073	36.210927	195	190	430
3808206	6442648.969	19987868.81	87	92	1350317	479588	6	8/12/1981	2	224	335	290.421629	44.578371	225	225	455
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	3/18/1981	2	77	384.12	379.818895	4.301105	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/21/1981	2	325	388.57	377.339882	11.230118	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/16/1984	5	1416	368.38	380.967377	-12.587377	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/10/1985	6	1775	359.27	372.684523	-13.414523	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	12/13/1986	7	2173	354.48	371.808534	-17.328534	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	12/10/1988	9	2901	379.2	381.208712	-2.008712	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/15/1990	11	3606	385.06	380.108077	4.951923	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	12/12/1991	12	3998	385.44	378.599506	6.840494	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/19/1992	13	4341	379	383.025495	-4.025495	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	12/17/1993	14	4734	379	377.24351	1.75649	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	2/3/1995	16	5147	390.2	375.027438	15.172562	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/10/1995	16	5427	371.4	377.408061	-6.008061	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/15/1996	17	5798	392.8	374.853056	17.946944	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/13/1997	18	6161	388.56	381.965757	6.594243	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/18/1998	19	6531	382.51	380.15736	2.35264	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/18/1999	20	6896	391.9	383.393884	8.506116	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/9/2000	21	7253	386.95	381.279109	5.670891	272	272	576

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/8/2001	22	7617	327.75	363.593889	-35.843889	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/10/2002	23	7984	393.6	378.349564	15.250436	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	9/24/2003	24	8302	391.42	380.059138	11.360862	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/10/2004	25	8715	390.6	379.685399	10.914601	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	1/12/2006	27	9143	386.6	379.781969	6.818031	272	272	576
3808207	6454498.934	19982619.71	89	94	1134508	414724	4	11/10/2006	27	9445	374.93	377.923031	-2.993031	272	272	576
3808208	6450878.42	19982761.65	88	93	1445385	522182	7	3/3/1990	11	3349	250	263.964248	-13.964248	-458	-538	572
3808208	6450878.42	19982761.65	88	93	1445385	522182	7	6/19/1990	11	3457	217	254.087139	-37.087139	-458	-538	572
3808209	6454336.1	19982409.89	89	94	1445857	522482	7	2/1/2007	28	9528	214	240.860357	-26.860357	-381	-398	584
3808406	6440209.847	19976914.52	88	91	1351075	479789	6	5/29/1985	6	1610	240	251.184671	-11.184671	-75	-85	445
3808806	6448268.273	19956391.91	92	90	1353507	480482	6	1/7/1983	4	737	277	256.436476	20.563524	180	180	310
3808806	6448268.273	19956391.91	92	90	1353507	480482	6	3/16/1988	9	2632	277.5	253.925698	23.574302	180	180	310
3808807	6448910.875	19959359.98	92	91	1353508	480483	6	6/1/1983	4	882	285	257.878826	27.121174	218	218	353
3808807	6448910.875	19959359.98	92	91	1353508	480483	6	3/16/1988	9	2632	285.23	255.271747	29.958253	218	218	353
3808808	6449606.882	19955336.46	93	91	1354267	480635	6	6/3/1988	9	2711	279	262.116763	16.883237	215	210	330
3808903	6467144.306	19956022.2	94	94	1448863	523910	7	12/5/1987	8	2530	262	259.707295	2.292705	-163	-168	392
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/19/1981	2	323	81.3	195.276095	-113.9761	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/19/1983	4	1053	87.2	244.0836	-156.8836	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/9/1984	5	1409	72.55	244.660614	-172.11061	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/9/1985	6	1774	30.2	179.771304	-149.5713	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/20/1986	7	2150	30.65	177.668725	-147.01873	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	12/10/1987	8	2535	34.28	178.126736	-143.84674	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	12/1/1988	9	2892	48.11	182.904069	-134.79407	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	9/14/1989	10	3179	19.91	175.031871	-155.12187	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	10/16/1990	11	3576	37.1	180.685628	-143.58563	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/21/1991	12	3977	45	182.352643	-137.35264	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	2/11/1994	15	4790	-44	154.939067	-198.93907	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	12/15/1994	15	5097	-48.81	152.712458	-201.52246	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/14/1995	16	5431	-37	238.98514	-275.98514	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	7/30/1996	17	5690	-32	237.220415	-269.22042	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	12/15/1997	18	6193	18	236.0848	-218.0848	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/19/1998	19	6532	41.25	236.558711	-195.30871	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/11/1999	20	6889	30	238.041243	-208.04124	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/4/2000	21	7248	-69	240.515213	-309.51521	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	9/11/2003	24	8289	-71	236.41162	-307.41162	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	11/13/2004	25	8718	-80	236.320197	-316.3202	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	1/11/2006	27	9142	-64	236.320389	-300.32039	-690	-725	260
3809607	6193588.928	19906260.03	77	44	1585310	613737	9	6/2/2006	27	9284	-64	235.168411	-299.16841	-690	-725	260
3809609	6190224.845	19906338.22	77	43	1519348	563162	8	10/9/1986	7	2108	14	169.524359	-155.52436	-529	-551	249
3809609	6190224.845	19906338.22	77	43	1519348	563162	8	10/12/1989	10	3207	-56.3	148.251224	-204.55122	-529	-551	249
3809609	6190224.845	19906338.22	77	43	1519348	563162	8	3/23/1996	17	5561	-100.5	131.632462	-232.13246	-529	-551	249
3809610	6193869.316	19907993.41	77	44	1519349	563163	8	11/11/2005	26	9081	-62	83.734742	-145.73474	-574	-594	243
3809701	6163885.893	19893517.94	77	38	1437161	517037	7	4/23/1981	2	113	287.6	264.529277	23.070723		283	300
3809903	6193926.427	19901813.91	78	43	1585624	613993	9	3/31/1995	16	5203	195.4	216.891931	-21.491931		-992	250
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	1/16/1981	2	16	113	253.858816	-140.85882	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	9/13/1989	10	3178	162.1	248.487306	-86.387306	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	8/15/1992	13	4245	132	251.436415	-119.43642	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	2/24/1993	14	4438	155	251.103054	-96.103054	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	2/10/1994	15	4789	143.52	247.343541	-103.82354	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/8/1995	16	5425	131.41	245.950864	-114.54086	-419	-424	366

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/19/1998	19	6532	124.22	243.295928	-119.07593	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/7/2000	21	7251	114.88	208.614338	-93.734338	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/7/2001	22	7616	128.8	246.817096	-118.0171	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	9/25/2003	24	8303	115.6	245.223469	-129.62347	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/12/2004	25	8717	114.05	244.561285	-130.51129	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	1/11/2006	27	9142	114.9	244.602134	-129.70213	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/9/2006	27	9444	108.32	241.807854	-133.48785	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	2/6/2008	29	9898	107.7	201.731712	-94.031712	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/19/2009	30	10550	105.3	240.647568	-135.34757	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/16/2010	31	10912	98.55	197.163712	-98.613712	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	12/1/2011	32	11292	86	235.641061	-149.64106	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/16/2012	33	11643	83	236.385783	-153.38578	-419	-424	366
3810111	6207630.482	19931712.68	74	48	1518336	562412	8	11/15/2013	34	12007	92.2	240.841648	-148.64165	-419	-424	366
3810112	6210993.758	19929305.99	75	49	1584787	613289	9	2/22/2001	22	7358	136.3	191.826362	-55.526362	-736	-746	410
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/19/1981	2	323	263.2	251.819547	11.380453	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/19/1983	4	1053	245.06	250.838836	-5.778836	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/9/1984	5	1409	240.11	250.771023	-10.661023	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/9/1985	6	1774	235.25	248.821598	-13.571598	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/20/1986	7	2150	228.98	244.202547	-15.222547	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	12/10/1987	8	2535	222.8	243.367235	-20.567235	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	12/1/1988	9	2892	218.02	244.999256	-26.979256	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	10/15/1989	10	3210	215.3	246.871183	-31.571183	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	10/13/1990	11	3573	212.38	247.992667	-35.612667	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/23/1991	12	3979	210.05	247.742637	-37.692637	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	2/24/1993	14	4438	209.16	249.626703	-40.466703	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	2/11/1994	15	4790	205.3	245.741194	-40.441194	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/7/1995	16	5424	198.45	244.10992	-45.65992	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/12/1996	17	5795	193.5	241.284717	-47.784717	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/12/1997	18	6160	199.68	241.088234	-41.408234	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/19/1998	19	6532	190.98	241.189148	-50.209148	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/19/1999	20	6897	186	243.675188	-57.675188	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/7/2000	21	7251	182.75	246.920984	-64.170984	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/7/2001	22	7616	181.9	244.785628	-62.885628	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	9/25/2003	24	8303	181.3	242.989666	-61.689666	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/12/2004	25	8717	180.39	242.22826	-61.83826	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	1/11/2006	27	9142	185.05	242.388475	-57.338475	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/9/2006	27	9444	176.06	239.485149	-63.425149	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	2/6/2008	29	9898	175.25	239.786168	-64.536168	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/8/2008	29	10174	171.95	238.603275	-66.653275	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/16/2010	31	10912	169.65	237.087092	-67.437092	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/29/2011	32	11290	164.36	233.10612	-68.74612	-308	-308	372
3810205	6219694.628	19926999.45	76	50	1519001	562906	8	11/13/2012	33	11640	162.24	233.791637	-71.551637	-308	-308	372
3810302	6227459.938	19935705.46	76	52	1436536	516587	7	2/14/1989	10	2967	282	267.555719	14.444281	117	112	422
3810302	6227459.938	19935705.46	76	52	1436536	516587	7	11/16/1989	10	3242	288.05	270.619248	17.430752	117	112	422
3810303	6228087.925	19932790.79	76	52	1436536	516587	7	2/9/1989	10	2962	314	276.127534	37.872466	109	104	404
3810303	6228087.925	19932790.79	76	52	1436536	516587	7	11/16/1989	10	3242	289.5	270.004398	19.495602	109	104	404
3810503	6217617.057	19920435.17	77	49	1519354	563168	8	4/10/1986	7	1926	189	216.926055	-27.926055	-340	-350	420
3810803	6215596.438	19891781.89	82	46	1521703	564660	8	4/2/1982	3	457	-40	98.938781	-138.93878	-811	-819	285
3810804	6216094.076	19892307.39	82	46	1587079	615243	9	4/14/1981	2	104	153	241.293565	-88.293565	-839	-867	283
3810804	6216094.076	19892307.39	82	46	1587079	615243	9	10/18/1989	10	3213	-66.66	237.764354	-304.42435	-839	-867	283

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3810805	6215472.085	19892790.64	82	46	1587079	615243	9	11/2/1994	15	5054	-16	110.043215	-126.043222	-912	-935	284
3810903	6227009.722	19893227.83	83	48	1522191	564942	8	3/19/1999	20	6652	121	174.949013	-53.949013	-856	-856	301
3811603	6265121.252	19908684.78	83	56	1522199	564950	8	3/14/2002	23	7743	207.1	219.001559	-11.901559	-940	-950	600
3811606	6265071.414	19914358.18	83	56	1441562	519761	7	10/15/1989	10	3210	283.6	263.812472	19.787528	-315	-336	645
3811703	6247470.558	19899282.27	83	52	1587484	615598	9	9/4/1986	7	2073	227	228.755039	-1.755039	-860	-860	390
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	11/19/1981	2	323	427.17	372.314875	54.855125	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	11/9/1984	5	1409	427.75	375.895256	51.854744	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	11/20/1986	7	2150	427.77	366.664551	61.105449	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	12/10/1987	8	2535	427.2	367.147235	60.052765	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	11/30/1988	9	2891	425.59	375.242572	50.347428	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	10/15/1989	10	3210	425.8	377.839082	47.960918	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	10/13/1990	11	3573	428.02	375.291183	52.728817	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	11/23/1991	12	3979	430	373.218414	56.781586	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	2/24/1993	14	4438	430.62	376.569757	54.050243	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	12/14/1994	15	5096	430.67	367.843244	62.826756	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	11/7/1995	16	5424	423.88	373.657099	50.222901	415	415	435
3811802	6260389.903	19904040.71	84	54	1129641	413874	4	11/13/1996	17	5796	423.7	368.512936	55.187064	415	415	435
3812303	6309925.879	19932564.03	84	65	1347614	478877	6	6/29/2003	24	8215	192	214.238069	-22.238069	-159	-159	411
3812501	6292360.693	19915134.75	85	61	1130641	414004	4	11/19/1981	2	323	358.11	346.938705	11.171295	353	353	400
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	3/21/1981	2	80	196.13	238.616489	-42.486489	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/18/1983	4	1052	247.9	235.836734	12.063266	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/9/1984	5	1409	250.35	235.577082	14.772918	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/9/1985	6	1774	240.38	235.436248	4.943752	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/19/1986	7	2149	243.08	227.368861	15.711139	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	12/9/1987	8	2534	237.5	230.436733	7.063267	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/30/1988	9	2891	216.96	230.800987	-13.840987	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	10/20/1989	10	3215	237.3	233.630496	3.669504	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	10/13/1990	11	3573	234.88	233.870761	1.009239	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/23/1991	12	3979	235.4	235.146803	0.253197	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	2/24/1993	14	4438	237.2	236.227127	0.972873	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	2/12/1994	15	4791	231.9	230.710288	1.189712	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/8/1995	16	5425	226.11	229.79928	-3.68928	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/13/1996	17	5796	216.5	226.398139	-9.898139	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/19/1998	19	6532	222.61	227.363483	-4.753483	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/19/1999	20	6897	226.3	233.24335	-6.94335	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/8/2000	21	7252	230.92	236.433493	-5.513493	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/8/2002	23	7982	228.2	233.698034	-5.498034	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	9/25/2003	24	8303	227.03	231.422169	-4.392169	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	1/11/2006	27	9142	230.18	230.744813	-0.564813	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/9/2006	27	9444	226.44	224.96838	1.47162	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	2/7/2008	29	9899	224.78	228.057908	-3.277908	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/7/2008	29	10173	219.3	225.057355	-5.757355	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/19/2009	30	10550	207.61	220.79969	-13.18969	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	12/1/2011	32	11292	203.71	216.965914	-13.255914	-209	-209	413
3812502	6291512.33	19914796.48	85	61	1348501	479087	6	11/16/2012	33	11643	203	220.224079	-17.224079	-209	-209	413
3812703	6290091.732	19896396.54	88	59	1351028	479742	6	3/12/2002	23	7741	227.68	227.094685	0.585315	-243	-255	470
3812903	6306003.012	19899568.68	89	62	1134404	414657	4	7/4/1986	7	2011	453.87	382.356984	71.513016	429	429	485
3812904	6306540.341	19901211.74	89	62	1351568	479911	6	5/5/1989	10	3047	227	225.685725	1.314275	-175	-175	525
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/18/1983	4	1052	242.2	241.164103	1.035897	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/9/1984	5	1409	234.75	240.63785	-5.88785	-79	-84	418

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/9/1985	6	1774	232.76	238.313773	-5.553773	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/19/1986	7	2149	232.1	231.613188	0.486812	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/30/1988	9	2891	228.11	233.697752	-5.587752	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	10/20/1989	10	3215	216.45	231.887973	-15.437973	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	10/13/1990	11	3573	222.9	239.437065	-16.537065	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	2/24/1993	14	4438	227.85	242.01197	-14.16197	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	2/12/1994	15	4791	226.53	235.382509	-8.852509	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	12/14/1994	15	5096	223.09	230.841863	-7.751863	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/8/1995	16	5425	210.28	235.272277	-24.992277	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/14/1996	17	5797	217.6	232.236798	-14.636798	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/11/1997	18	6159	218.77	232.943342	-14.173342	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/19/1998	19	6532	216.81	232.218612	-15.408612	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/19/1999	20	6897	214.8	239.24072	-24.44072	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/8/2000	21	7252	211.3	242.266815	-30.966815	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/7/2001	22	7616	210.45	239.152973	-28.702973	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/7/2002	23	7981	207.6	241.411658	-33.811658	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	9/25/2003	24	8303	205.92	237.534902	-31.614902	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	1/10/2006	27	9141	207.38	238.577511	-31.197511	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/9/2006	27	9444	202.2	232.492348	-30.292348	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	2/7/2008	29	9899	201.38	236.539272	-35.159272	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/6/2008	29	10172	199.45	232.554742	-33.104742	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/18/2009	30	10549	199.53	234.067643	-34.537643	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/16/2010	31	10912	198.6	232.413432	-33.813432	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/29/2011	32	11290	193.52	225.142329	-31.622329	-79	-84	418
3813106	6316170.049	19937884.87	83	67	1346743	478713	6	11/16/2012	33	11643	191.3	228.518492	-37.218492	-79	-84	418
3813107	6316088.067	19937780.36	83	67	1346743	478713	6	1/27/1982	3	392	235	242.714696	-7.714696	-83	-88	420
3813107	6316088.067	19937780.36	83	67	1346743	478713	6	10/20/1989	10	3215	217.7	232.240216	-14.540216	-83	-88	420
3813107	6316088.067	19937780.36	83	67	1346743	478713	6	3/15/2002	23	7744	213.45	240.232036	-26.782036	-83	-88	420
3813305	6348312.708	19939613.87	86	72	1349448	479352	6	6/7/2000	21	7098	203	217.447198	-14.447198	-170	-189	571
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	3/21/1981	2	80	251.28	227.18517	24.09483	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/19/1981	2	323	250.93	226.441393	24.488607	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/18/1983	4	1052	248.26	225.343522	22.916478	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/9/1984	5	1409	247.57	224.955935	22.614065	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/9/1985	6	1774	247.9	223.26313	24.63687	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/19/1986	7	2149	263.4	218.236513	45.163487	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	12/9/1987	8	2534	265.54	217.565327	47.974673	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/30/1988	9	2891	262.41	220.402344	42.007656	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	10/20/1989	10	3215	265.6	222.272344	43.327656	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	10/12/1990	11	3572	265.5	223.614483	41.885517	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/23/1991	12	3979	269.7	225.780795	43.919205	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	2/24/1993	14	4438	268.93	227.256926	41.673074	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	2/12/1994	15	4791	268.5	221.924197	46.575803	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	12/14/1994	15	5096	271.85	218.023017	53.826983	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/8/1995	16	5425	267.54	220.666132	46.873868	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/13/1996	17	5796	259.1	218.423965	40.676035	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/12/1997	18	6160	266.39	219.32009	47.06991	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/19/1998	19	6532	268.91	218.113265	50.796735	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/19/1999	20	6897	270.3	222.801074	47.498926	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/9/2001	22	7618	270.35	222.6834	47.66666	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/8/2002	23	7982	269.65	223.407127	46.242873	32	32	280

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	9/27/2003	24	8305	267.92	221.244564	46.675436	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	1/10/2006	27	9141	265.88	219.921526	45.958474	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	11/10/2006	27	9445	263.39	214.094269	49.295731	32	32	280
3813805	6333732.04	19898368.26	92	66	1447485	523264	7	2/7/2008	29	9899	268.65	217.561176	51.088824	32	32	280
3814205	6375517.49	19933865.97	89	76	1445836	522461	7	1/1/1981	2	1	190	226.948146	-36.948146	-99	-120	600
3814205	6375517.49	19933865.97	89	76	1445836	522461	7	2/17/1989	10	2970	170	217.855397	-47.855397	-99	-120	600
3814308	6380913.47	19940683.76	89	78	1351584	479927	6	7/27/2000	21	7148	186.5	202.814702	-16.314702	-63	-63	590
3814509	6375344.584	19921696.03	91	75	1352808	480282	6	3/19/1985	6	1539	186	203.622568	-17.622568	16	11	501
3814509	6375344.584	19921696.03	91	75	1352808	480282	6	4/21/1988	9	2668	191	206.803808	-15.803808	16	11	501
3815105	6397523.342	19938976.72	91	80	1352813	480287	6	11/2/1985	6	1767	241	232.576683	8.423317	-61	-66	606
3815106	6404127.115	19937727.42	91	81	1352814	480288	6	11/4/1982	3	673	436	290.204149	145.79585	300	300	610
3815106	6404127.115	19937727.42	91	81	1352814	480288	6	4/27/1988	9	2674	416.9	278.529427	138.37057	300	300	610
3815107	6403838.282	19938424.64	91	81	1136070	414885	4	10/28/1982	3	666	462	434.534659	27.465341	342	342	632
3815108	6394024.545	19934251.04	91	79	1352812	480286	6	2/2/1988	9	2589	203	208.592098	-5.592098		-36	630
3815203	6414055.515	19933293.36	93	83	1354238	480606	6	2/28/1981	2	59	480	304.798555	175.20145	383	380	655
3815501	6413783.261	19917773.27	96	81	1356180	481220	6	4/21/1988	9	2668	219.58	210.401301	9.178699	54	48	477
3815505	6418063.133	19922419.69	95	82	1449349	524130	7	9/2/1994	15	4993	202	207.785715	-5.785715	38	27	712
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	3/19/1982	3	443	199	216.132632	-17.132632	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/10/1982	3	679	212	215.953709	-3.953709	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/10/1983	4	1044	213	214.683532	-1.683532	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/15/1984	5	1415	212	214.690867	-2.690867	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/10/1985	6	1775	201	214.535152	-13.535152	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	12/13/1986	7	2173	222	212.619165	9.380835	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/14/1987	8	2509	202	206.645654	-4.645654	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	12/13/1988	9	2904	204	212.469602	-8.469602	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	10/18/1989	10	3213	200	213.501172	-13.501172	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/15/1990	11	3606	197	210.124047	-13.124047	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	12/5/1991	12	3991	208.7	218.524852	-9.824852	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	12/17/1993	14	4734	260	217.411865	42.588135	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/10/1995	16	5427	274	215.446339	58.553661	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/18/1999	20	6896	198	215.934436	-17.934436	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/10/2000	21	7254	201	215.165311	-14.165311	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/9/2001	22	7618	200	212.146284	-12.146284	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/8/2002	23	7982	198	209.625058	-11.625058	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/11/2004	25	8716	197	208.114802	-11.114802	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	1/14/2006	27	9145	248	209.169918	38.830082	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/14/2006	27	9449	234	201.588169	32.411831	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/8/2008	29	10174	243	202.561945	40.438055	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/19/2009	30	10550	252	219.497935	32.502065	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/15/2012	33	11642	222	196.609402	25.390598	41	31	706
3815607	6420676.634	19920800.52	96	83	1449881	524402	7	11/14/2013	34	12006	201	206.374953	-5.374953	41	31	706
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	3/17/1981	2	76	468.25	384.910207	83.339793		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	3/19/1982	3	443	468.83	383.745504	85.084496		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/10/1982	3	679	467.22	383.156286	84.063714		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/10/1983	4	1044	468.43	383.641841	84.788159		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/15/1984	5	1415	467.16	388.347357	78.812643		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/10/1985	6	1775	467.39	385.808972	81.581028		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	12/14/1986	7	2174	466.99	378.576431	88.413569		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/17/1987	8	2512	467.93	379.244781	88.685219		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	12/14/1988	9	2905	467.03	388.085126	78.944874		455	526

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	10/18/1989	10	3213	468.93	391.064419	77.865581		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/15/1990	11	3606	468.75	388.117684	80.632316		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	12/5/1991	12	3991	473.5	385.940515	87.559485		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/14/1992	13	4336	474.7	391.391385	83.308615		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	12/18/1993	14	4735	473.8	384.536197	89.263803		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	2/2/1995	16	5146	472.9	381.156346	91.743654		455	526
3815803	6412996.786	19908109.36	97	80	1141745	416596	4	11/10/1995	16	5427	474.18	386.352842	87.827158		455	526
3815804	6407805.542	19904539.29	97	79	1450459	524701	7	2/18/1989	10	2971	174	197.142213	-23.142213	-19	-22	450
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/10/1982	3	679	234.58	217.063041	17.516959	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/10/1983	4	1044	234.47	217.136557	17.333443	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/15/1984	5	1415	233.39	217.139811	16.250189	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/20/1985	6	1785	231.69	215.939276	15.750724	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	12/14/1986	7	2174	232.07	212.25205	19.81795	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/14/1987	8	2509	231.51	212.632935	18.877065	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	12/14/1988	9	2905	226.63	216.513896	10.116104	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	10/18/1989	10	3213	230.5	214.081568	16.418432	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/15/1990	11	3606	229.65	217.547391	12.102609	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	12/5/1991	12	3991	230.55	219.832424	10.717576	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/14/1992	13	4336	230.3	222.30967	7.99033	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	12/17/1993	14	4734	230	219.155545	10.844455	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/13/1996	17	5796	227.3	215.518279	11.781721	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/14/1997	18	6162	229.15	216.53587	12.61413	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/18/1998	19	6531	227.39	214.992081	12.397919	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/18/1999	20	6896	226.15	217.26834	8.88166	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/10/2000	21	7254	225.42	217.844691	7.575309	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/9/2001	22	7618	225.72	215.182023	10.537977	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/8/2002	23	7982	225.75	216.771947	8.978053	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	9/24/2003	24	8302	226.05	216.725482	9.324518	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/10/2004	25	8715	226.46	213.3287	13.1313	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	1/13/2006	27	9144	227.01	212.710184	14.299816	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/11/2006	27	9446	222.75	207.398367	15.351633	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	2/7/2008	29	9899	225.98	210.322157	15.657843	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/8/2008	29	10174	226.4	207.997174	18.402826	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/21/2009	30	10552	222.72	210.063013	12.656987	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/18/2010	31	10914	226.6	207.151653	19.448347	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/29/2011	32	11290	225.31	200.478162	24.831838	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/15/2012	33	11642	224.73	203.567726	21.162274	110	107	440
3816803	6454968.846	19906697.16	101	87	1453377	525840	7	11/13/2013	34	12005	225.8	210.053989	15.746011	110	107	440
3818203	6221861.463	19885735.61	83	46	1522189	564940	8	5/20/1982	3	505	-53	91.70461	-144.70461	-896	-911	282
3818204	6221779.105	19885631.43	83	46	1522189	564940	8	3/22/1983	4	811	-184	26.166741	-210.16674	-903	-923	281
3818205	6218973.448	19886842.55	83	46	1587478	615592	9	8/8/1989	10	3142	99	167.58993	-68.58993	-987	-1000	281
3818206	6216210.801	19891501.17	82	46	1521703	564660	8	10/18/1989	10	3213	-72.56	81.168863	-153.72886	-870	-870	285
3818703	6211098.982	19846213.74	89	41	1351541	479884	6	11/5/1996	17	5788	225.4	239.931381	-14.531381		210	310
3818703	6211098.982	19846213.74	89	41	1351541	479884	6	11/21/1997	18	6169	218	241.769861	-23.769861		210	310
3818703	6211098.982	19846213.74	89	41	1351541	479884	6	11/20/1998	19	6533	282.5	241.579013	40.920987		210	310
3819304	6275592.271	19881430.02	89	55	1524949	566687	8	10/26/1987	8	2490	50	135.615715	-85.615715	-1300	-1332	400
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	3/21/1981	2	80	237.74	228.079976	9.660024	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/20/1981	2	324	236.52	227.748742	8.771258	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/19/1983	4	1053	233.58	227.324947	6.255053	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/9/1984	5	1409	227.4	228.45376	-1.05376	-234	-240	285

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/9/1985	6	1774	227	226.880671	0.119329	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/19/1986	7	2149	222.93	223.634789	-0.704789	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	12/9/1987	8	2534	228.08	224.549705	3.530295	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/30/1988	9	2891	229.19	227.688672	1.501328	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	10/18/1989	10	3213	229.1	228.121852	0.978148	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/21/1991	12	3977	232.1	227.002489	5.097511	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	2/23/1993	14	4437	233.23	227.839922	5.390078	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	2/12/1994	15	4791	232.28	225.144562	7.135438	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/12/1997	18	6160	222.76	225.706358	-2.946358	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/19/1998	19	6532	220.8	225.153441	-4.353441	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/17/1999	20	6895	220.2	227.817476	-7.617476	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/7/2000	21	7251	216.65	227.816389	-11.166389	-234	-240	285
3819404	6240517.779	19869321.6	88	48	1351017	479731	6	11/7/2001	22	7616	217.9	226.412258	-8.512258	-234	-240	285
3819405	6242228.893	19867461.87	88	48	1445340	522137	7	10/11/1986	7	2110	238.6	228.353776	10.246224	-272	-272	304
3819406	6248021.962	19876096.66	87	50	1524161	566115	8	6/4/1986	7	1981	236	231.477174	4.522826	-291	-292	361
3819406	6248021.962	19876096.66	87	50	1524161	566115	8	10/11/1989	10	3206	207.3	222.476634	-15.176634	-291	-292	361
3819407	6246529.97	19874518.79	87	49	1588999	616803	9	7/21/1993	14	4585	163	208.877526	-45.877526	-866	-886	324
3819407	6246529.97	19874518.79	87	49	1588999	616803	9	3/22/1996	17	5560	136.27	197.86832	-61.59832	-866	-886	324
3819408	6243768.816	19872284.29	88	49	1524598	566398	8	7/23/1993	14	4587	233.5	231.549279	1.950721	-624	-624	304
3819603	6274690.54	19867104.91	91	53	1352774	480248	6	9/14/1989	10	3179	222.06	223.633853	-1.573853	-170	-175	460
3819604	6274734.431	19865991.7	91	53	1352774	480248	6	3/16/1995	16	5188	215	217.464528	-2.464528	-180	-182	400
3819605	6274734.431	19865991.7	91	53	1352774	480248	6	3/16/1995	16	5188	199	209.464528	-10.464528	-180	-180	400
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/20/1981	2	324	225.32	228.503182	-3.183182	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/19/1983	4	1053	222.84	227.672651	-4.832651	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/10/1984	5	1410	220.63	228.023991	-7.393991	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/9/1985	6	1774	218.72	226.601011	-7.881011	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/19/1986	7	2149	217	223.09834	-6.09834	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	12/9/1987	8	2534	215.98	223.592651	-7.612651	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	10/20/1989	10	3215	213.3	226.949268	-13.649268	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/13/1990	11	3604	212.5	226.47837	-13.97837	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/21/1991	12	3977	216.9	227.016323	-10.116323	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	2/23/1993	14	4437	211.24	228.167815	-16.927815	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	2/12/1994	15	4791	210.73	224.670632	-13.940632	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/8/1995	16	5425	211.28	224.779221	-13.499221	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/12/1997	18	6160	211.03	224.03084	-13.00084	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/19/1998	19	6532	207.95	223.311065	-15.361065	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/17/1999	20	6895	209.5	226.340034	-16.840034	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/7/2000	21	7251	209.48	227.820874	-18.340874	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/7/2001	22	7616	210.6	225.930181	-15.330181	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/6/2002	23	7980	210.1	225.283758	-15.183758	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	9/26/2003	24	8304	211.12	224.482342	-13.362342	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/12/2004	25	8717	212.58	222.62208	-10.04208	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	1/10/2006	27	9141	213.22	223.49596	-10.27596	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/9/2006	27	9444	208.68	219.820925	-11.140925	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	2/5/2008	29	9897	208.85	221.279142	-12.429142	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/8/2008	29	10174	208.15	219.753808	-11.603808	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/18/2009	30	10549	206.55	216.254122	-9.704122	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/19/2010	31	10915	207.9	218.667212	-10.767212	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/29/2011	32	11290	203.61	214.129664	-10.519664	-84	-96	312
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/13/2012	33	11640	204.8	216.151618	-11.351618	-84	-96	312

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3819802	6260749.219	19859464.19	91	50	1352771	480245	6	11/15/2013	34	12007	204.47	221.282355	-16.812355	-84	-96	312
3820104	6285325.299	19892659.32	88	58	1589350	617101	9	11/10/1989	10	3236	231.06	215.76997	15.29003	-1728	-1754	490
3820105	6289030.479	19890577.17	89	58	1351564	479907	6	8/29/1982	3	606	224	227.132407	-3.132407	-273	-283	462
3820105	6289030.479	19890577.17	89	58	1351564	479907	6	10/20/1989	10	3215	216.2	222.85013	-6.65013	-273	-283	462
3820105	6289030.479	19890577.17	89	58	1351564	479907	6	3/21/1996	17	5559	184.65	210.384253	-25.734253	-273	-283	462
3820106	6291455.351	19879526.23	91	57	1352778	480252	6	9/3/1999	20	6820	218	219.515578	-1.515578	-310	-320	558
3820201	6296859.334	19884606.54	90	59	1135106	414759	4	11/7/1991	12	3963	421.21	393.078997	28.131003		395	450
3820203	6291187.392	19890561.91	89	58	1445818	522443	7	11/19/1981	2	323	215.64	229.195436	-13.555436	-290	-300	420
3820203	6291187.392	19890561.91	89	58	1445818	522443	7	11/19/1983	4	1053	257.9	236.712746	21.187254	-290	-300	420
3820203	6291187.392	19890561.91	89	58	1445818	522443	7	11/9/1984	5	1409	254.05	235.37553	18.67447	-290	-300	420
3820203	6291187.392	19890561.91	89	58	1445818	522443	7	11/9/1985	6	1774	255.21	225.476696	29.733304	-290	-300	420
3820203	6291187.392	19890561.91	89	58	1445818	522443	7	11/19/1986	7	2149	213.12	218.269002	-5.149002	-290	-300	420
3820203	6291187.392	19890561.91	89	58	1445818	522443	7	10/20/1989	10	3215	216.8	222.737049	-5.937049	-290	-300	420
3820503	6300361.596	19872585.7	93	58	1354201	480569	6	12/16/1984	5	1446	225	221.914968	3.085032	-199	-200	600
3820503	6300361.596	19872585.7	93	58	1354201	480569	6	11/10/1989	10	3236	216.6	218.054924	-1.454924	-199	-200	600
3820801	6293308.393	19850412.44	96	55	1449853	524374	7	3/21/1981	2	80	211.13	215.942081	-4.812081	-603	-655	405
3820803	6295016.528	19850886.05	96	55	1449853	524374	7	1/11/1990	11	3298	135	174.942258	-39.942258	-620	-630	420
3820804	6292645.899	19854034.4	95	55	1355512	480961	6	8/9/1992	13	4239	171	194.140048	-23.140048	-449	-464	461
3821507	6336152.112	19866846.44	97	64	1141645	416500	4	3/21/1981	2	80	279.68	331.018912	-51.338912	264	264	346
3821507	6336152.112	19866846.44	97	64	1141645	416500	4	11/19/1981	2	323	283.54	330.863417	-47.323417	264	264	346
3821704	6324970.684	19853212.13	98	61	1529080	569699	8	3/21/1981	2	80	258.77	213.448982	45.321018	-1295	-1323	495
3821704	6324970.684	19853212.13	98	61	1529080	569699	8	11/20/1981	2	324	251.9	213.329688	38.570312	-1295	-1323	495
3821705	6323402.521	19853553.43	98	60	1529079	569698	8	11/14/1989	10	3240	266.5	237.835098	28.664902	-1355	-1370	440
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/19/1981	2	323	312.35	323.340954	-10.990954	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/18/1983	4	1052	312.75	323.297846	-10.547846	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/10/1984	5	1410	312.21	324.748319	-12.538319	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/9/1985	6	1774	311.56	323.643787	-12.083787	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/19/1986	7	2149	312.42	321.140921	-8.720921	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	12/9/1987	8	2534	313.38	321.958146	-8.578146	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/30/1988	9	2891	312.82	324.883072	-12.063072	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	10/20/1989	10	3215	313.4	325.274678	-11.874678	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	10/12/1990	11	3572	312.86	324.350492	-11.490492	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/21/1991	12	3977	314	323.845907	-9.845907	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	2/24/1993	14	4438	312.47	324.508357	-12.038357	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	2/12/1994	15	4791	314.54	322.851176	-8.311176	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	12/14/1994	15	5096	311.1	322.124706	-11.024706	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/8/1995	16	5425	308.2	324.556322	-16.356322	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/13/1996	17	5796	312.1	322.252137	-10.152137	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/12/1997	18	6160	313.89	324.197336	-10.307336	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/19/1998	19	6532	313.61	324.013529	-10.403529	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/17/1999	20	6895	313.1	325.532561	-12.432561	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/8/2000	21	7252	311.25	324.757679	-13.507679	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/7/2001	22	7616	313.95	323.972635	-10.022635	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/8/2002	23	7982	313.8	323.813	-10.013	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	9/25/2003	24	8303	314.38	324.483245	-10.103245	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	1/10/2006	27	9141	314.38	324.28271	-9.90271	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/8/2008	29	10174	311.98	323.183098	-11.203098	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/22/2009	30	10553	313.85	322.334807	-8.484807	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/19/2010	31	10915	312.15	322.410764	-10.260764	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/29/2011	32	11290	310.62	321.628792	-11.008792	288	288	338

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/13/2012	33	11640	310.05	322.39648	-12.34648	288	288	338
3821904	6344039.045	19861902.05	98	64	1142725	416999	4	11/15/2013	34	12007	309.67	324.200717	-14.530717	288	288	338
3822802	6374829.06	19856502.19	102	69	1147359	418544	4	3/27/2002	23	7756	347.33	305.606374	41.723626	309	309	371
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	3/19/1982	3	443	382.9	374.039385	8.860615		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	11/10/1982	3	679	382.62	373.31229	9.30771		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	11/10/1983	4	1044	383.44	373.852302	9.587698		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	11/15/1984	5	1415	382.5	379.096345	3.403655		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	12/13/1986	7	2173	383.57	367.897053	15.672947		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	11/17/1987	8	2512	382.9	368.607834	14.292166		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	12/14/1988	9	2905	381.94	378.824534	3.115466		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	10/18/1989	10	3213	383.54	382.177999	1.362001		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	11/7/1990	11	3598	384.13	379.251536	4.878464		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	12/5/1991	12	3991	385.55	376.754164	8.795836		380	410
3823203	6417642.086	19894526.92	100	80	1145408	417907	4	11/14/1992	13	4336	384.25	382.603671	1.646329		380	410
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	3/17/1981	2	76	212.88	199.312816	13.567184	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	3/19/1982	3	443	202.36	199.783943	2.576057	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/10/1982	3	679	200.88	199.430379	1.449621	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/10/1983	4	1044	199.78	199.360989	0.419011	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/15/1984	5	1415	197.1	198.489712	-1.389712	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/10/1985	6	1775	196.77	197.421081	-0.651081	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	12/13/1986	7	2173	195.07	193.676831	1.393169	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/17/1987	8	2512	193.74	193.311885	0.428115	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	12/14/1988	9	2905	192.5	196.852405	-4.352405	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/7/1990	11	3598	195.2	199.08595	-3.88595	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	12/5/1991	12	3991	192.5	202.29986	-9.79986	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/14/1992	13	4336	191.4	204.741579	-13.341579	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	12/17/1993	14	4734	191.85	201.051861	-9.201861	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	8/2/1995	16	5146	190.6	196.744589	-6.144589	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/10/1995	16	5427	189.52	198.019713	-8.499713	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/13/1996	17	5796	187.2	196.41288	-9.21288	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/13/1997	18	6161	186.39	196.92225	-10.53225	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/17/1998	19	6530	185.45	194.809597	-9.359597	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/8/2002	23	7982	183	198.295092	-15.295092	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	9/24/2003	24	8302	183.05	197.384296	-14.334296	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/15/2006	27	9450	185.6	185.273227	0.326773	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/21/2009	30	10552	186.34	189.717642	-3.377642	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/18/2010	31	10914	186.42	185.540956	0.879044	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	12/1/2011	32	11292	185.32	176.878414	8.441586	105	105	359
3823406	6406203.952	19876981.16	102	76	1360744	482509	6	11/13/2013	34	12005	186.28	188.861979	-2.581979	105	105	359
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	3/19/1982	3	443	450.85	390.952638	59.897362		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	11/10/1982	3	679	450.45	390.100254	60.349746		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	11/10/1983	4	1044	452.12	390.844689	61.275311		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	11/15/1984	5	1415	450.96	397.116032	53.843968		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	12/13/1986	7	2173	452.46	383.315023	69.144977		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	11/17/1987	8	2512	451.84	384.640207	67.199793		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	12/14/1988	9	2905	450.37	397.062846	53.307154		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	10/18/1989	10	3213	451.83	400.362691	51.467309		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	11/7/1990	11	3598	452.24	396.881399	55.358601		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	12/5/1991	12	3991	456.8	394.17279	62.62721		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	11/14/1992	13	4336	456.25	400.947103	55.302897		436	492

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	12/17/1993	14	4734	455.45	392.303099	63.146901		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	2/2/1995	16	5146	459.7	387.753346	71.946654		436	492
3824101	6437646.644	19892769.61	102	83	1147430	418599	4	11/10/1995	16	5427	456.39	395.28472	61.10528		436	492
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	3/19/1982	3	443	505.75	403.204623	102.54538		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/10/1982	3	679	506.74	402.233959	104.50604		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/10/1983	4	1044	509.36	402.908081	106.45192		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/15/1984	5	1415	507.49	409.544255	97.945745		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	12/13/1986	7	2173	509.58	395.195609	114.38439		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/17/1987	8	2512	509.83	395.96704	113.86296		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	12/14/1988	9	2905	508	409.147912	98.852088		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	10/18/1989	10	3213	508.92	413.374658	95.545342		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/7/1990	11	3598	509.62	409.904976	99.715024		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	12/5/1991	12	3991	512.6	406.748217	105.85178		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/14/1992	13	4336	513.4	413.843892	99.556108		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	12/17/1993	14	4734	512.4	405.030709	107.36929		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	2/2/1995	16	5146	514.8	399.438476	115.36152		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/10/1995	16	5427	513.63	407.224444	106.40556		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/13/1996	17	5796	509.6	400.040012	109.55999		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/14/1997	18	6162	509.51	406.019408	103.49059		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/18/1998	19	6531	509.08	406.990432	102.08957		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/17/1999	20	6895	510.1	414.431017	95.668983		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/10/2000	21	7254	507.97	412.027058	95.942942		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/9/2001	22	7618	511.95	407.737396	104.2126		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/8/2002	23	7982	511.5	406.027014	105.47299		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	9/24/2003	24	8302	511	408.531038	102.46896		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/11/2004	25	8716	510.04	408.314314	101.72569		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	1/13/2006	27	9144	510.77	408.335937	102.43406		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/14/2006	27	9449	508.39	405.093523	103.29648		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	2/7/2008	29	9899	507.12	402.860357	104.25964		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/8/2008	29	10174	507.35	402.361012	104.98899		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/21/2009	30	10552	507.08	398.793634	108.28637		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/18/2010	31	10914	506.1	398.200184	107.89982		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	12/1/2011	32	11292	504.98	395.113431	109.86657		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/15/2012	33	11642	504.75	397.281358	107.46864		496	545
3824102	6433602.884	19899179.92	101	83	1146464	418271	4	11/13/2013	34	12005	504.34	405.265515	99.074485		496	545
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	3/19/1982	3	443	214	176.077179	37.922821	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	11/10/1982	3	679	190	175.658188	14.341812	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	11/10/1983	4	1044	196	175.825181	20.174819	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	11/15/1984	5	1415	191	174.035108	16.964892	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	11/10/1985	6	1775	190	173.275838	16.724162	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	12/13/1986	7	2173	230	170.420284	59.579716	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	11/17/1987	8	2512	185	171.655323	13.344677	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	12/14/1988	9	2905	185	176.827762	8.172238	-137	-138	420
3824802	6448614.845	19867307.17	107	82	1363519	483242	6	10/17/1989	10	3212	185	169.556607	15.443393	-137	-138	420
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	6/6/1986	7	1983	169	171.633042	-2.633042	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	4/22/1988	9	2669	170	173.982298	-3.982298	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	12/14/1988	9	2905	162	176.598649	-14.598649	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	12/5/1991	12	3991	157.75	182.654053	-24.904053	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	11/14/1992	13	4336	165.2	185.327386	-20.127386	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	12/17/1993	14	4734	160.67	182.00885	-21.33885	-136	-151	434

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	2/2/1995	16	5146	166.7	177.522193	-10.822193	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	11/11/1995	16	5428	152.22	177.748471	-25.528471	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	11/15/1996	17	5798	149.3	176.676303	-27.376303	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	11/17/1999	20	6895	148.3	176.14006	-27.84006	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	11/10/2000	21	7254	147.67	179.065062	-31.395062	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	9/25/2003	24	8303	156.4	177.746486	-21.346486	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	1/13/2006	27	9144	151.18	169.289715	-18.109715	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	12/1/2011	32	11292	142.48	149.046578	-6.566578	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	11/14/2012	33	11641	157.28	157.304736	-0.024736	-136	-151	434
3824806	6448265.42	19867007.62	107	82	1363519	483242	6	11/13/2013	34	12005	169.65	165.600684	4.049316	-136	-151	434
3825105	6175447.661	19843677.84	86	35	1443908	521191	7	4/6/1985	6	1557	265	274.073976	-9.073976	-190	-190	355
3825707	6172292.887	19806982.27	92	31	1447450	523229	7	7/18/1984	5	1295	300	289.812643	10.187357	-374	-380	440
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	9/13/2000	21	7196	239.37	249.054645	-9.684645	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	11/18/2000	21	7262	240.2	249.059672	-8.859672	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	11/17/2001	22	7626	237.1	247.830489	-10.730489	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	11/6/2002	23	7980	241.15	247.140091	-5.990091	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	9/26/2003	24	8304	240.35	247.44596	-7.09596	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	11/8/2006	27	9443	238.1	244.546717	-6.446717	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	2/5/2008	29	9897	238.18	244.555814	-6.375814	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	11/13/2008	29	10179	237.15	243.850413	-6.700413	-85	-92	275
3826109	6210873.582	19831511.93	91	40	1352752	480226	6	11/19/2009	30	10550	240.77	243.245041	-2.475041	-85	-92	275
3826111	6210877.409	19831410.58	91	40	1352752	480226	6	10/31/2013	34	11992	198.99	221.677358	-22.687358	-88	-264	276
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	12/21/1993	14	4738	245	251.426617	-6.426617		-500	340
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	9/13/2000	21	7196	221.5	253.241888	-31.741888		-500	340
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	11/18/2000	21	7262	221.6	253.237783	-31.637783		-500	340
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	11/17/2001	22	7626	222.1	251.958964	-29.858964		-500	340
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	3/8/2006	27	9198	219.21	250.211098	-31.001098		-500	340
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	11/8/2006	27	9443	226.94	248.707983	-21.767983		-500	340
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	11/19/2009	30	10550	214.11	237.275395	-23.165395		-500	340
3826401	6206381.471	19829215.46	91	39	1352751	480225	6	10/31/2013	34	11992	202	248.443384	-46.443384		-500	340
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	3/11/1981	2	70	341.19	249.981741	91.208259		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	3/20/1982	3	444	338.32	249.60705	88.71295		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/19/1982	3	688	338.62	249.310883	89.309117		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/18/1983	4	1052	337.06	249.483302	87.576698		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/10/1984	5	1410	339.17	250.559478	88.610522		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/20/1986	7	2150	342.87	246.665316	96.204684		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	2/10/1988	9	2597	341.05	247.072215	93.977785		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	1/31/1989	10	2953	338.28	249.860135	88.419865		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	12/7/1989	10	3263	341.66	250.208328	91.451672		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	12/20/1990	11	3641	341.3	248.501984	92.798016		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/16/1991	12	3972	344.2	248.798138	95.401862		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	2/26/1994	15	4805	342.9	247.441334	95.458666		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	12/15/1994	15	5097	343.3	245.712747	97.587253		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/8/1995	16	5425	343.6	247.934637	95.665363		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/20/1996	17	5803	339.9	245.683716	94.216284		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/19/1997	18	6167	340.85	247.261855	93.588145		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/16/1999	20	6894	339.65	248.932307	90.717693		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/18/2000	21	7262	337.4	249.181367	88.218633		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/17/2001	22	7626	340.6	247.906135	92.693865		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/6/2002	23	7980	341.2	247.342601	93.857399		318	375

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	9/26/2003	24	8304	342	247.269511	94.730489		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/12/2004	25	8717	341.23	246.20689	95.02311		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	3/8/2006	27	9198	340.73	245.623423	95.106577		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/8/2006	27	9443	338.95	243.962621	94.987379		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/19/2009	30	10550	338.56	242.914884	95.645116		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	11/20/2010	31	10916	340.4	241.900946	98.499054		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	9/30/2011	32	11230	337.25	239.348081	97.901919		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	10/24/2012	33	11620	336.35	239.856864	96.493136		318	375
3826706	6214534.234	19803072.77	96	38	1356137	481177	6	10/31/2013	34	11992	335.77	243.513601	92.256399		318	375
3828604	6315754.942	19820709.45	103	56	1148451	418901	4	7/4/1987	8	2376	417	378.028379	38.971621		403	460
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	3/16/1982	3	440	217.37	218.639476	-1.269476		-169	378
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	11/16/1982	3	685	214.6	217.545762	-2.945762		-169	378
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	11/17/1983	4	1051	215.06	217.766675	-2.706675		-169	378
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	11/14/1984	5	1414	214	217.324848	-3.324848		-169	378
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	11/19/1986	7	2149	211.93	214.383581	-2.453581		-169	378
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	2/11/1988	9	2598	211.7	214.183587	-2.483587		-169	378
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	1/31/1989	10	2953	209.5	215.298133	-5.798133		-169	378
3828701	6289639.792	19810235.25	102	51	1360716	482481	6	11/29/1989	10	3255	210.4	215.264	-4.864		-169	378
3829105	6325197.57	19849775.34	99	60	1529658	570120	8	11/14/1989	10	3240	264.8	236.67433	28.12567	-1410	-1425	500
3829106	6321749.164	19849634.57	98	60	1529079	569698	8	11/14/1989	10	3240	266.9	238.066112	28.833888	-1392	-1392	460
3829701	6326236.089	19805326.04	106	56	1363004	483085	6	10/15/1991	12	3940	189	197.741896	-8.741896	-368	-400	520
3829802	6333995.55	19807974.94	106	58	1363006	483087	6	1/1/1981	2		190	199.378564	-9.378564	-374	-407	470
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	11/19/1981	2	323	395.64	303.453418	92.186582	387	387	420
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	11/18/1983	4	1052	395.64	303.252251	92.387749	387	387	420
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	11/10/1984	5	1410	395.28	306.441551	88.838449	387	387	420
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	11/20/1986	7	2150	395.43	298.782075	96.647925	387	387	420
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	12/9/1987	8	2534	395.55	300.143722	95.406278	387	387	420
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	11/30/1988	9	2891	393.5	306.660821	86.839179	387	387	420
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	10/20/1989	10	3215	394.95	307.903732	87.046268	387	387	420
3830202	6375295.157	19843447.26	104	68	1149446	419301	4	10/12/1990	11	3572	395.88	305.873863	90.006137	387	387	420
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/14/1984	5	1414	275.1	288.663358	-13.563358	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/18/1986	7	2148	275.8	283.102415	-7.302415	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	2/11/1988	9	2598	275.7	285.761215	-10.061215	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	1/31/1989	10	2953	275.42	289.201888	-13.781888	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/29/1989	10	3255	275.4	289.690193	-14.290193	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/30/1990	11	3621	275.73	288.024926	-12.294926	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	12/3/1991	12	3989	276.5	287.315855	-10.815855	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	12/8/1993	14	4725	277.2	286.247791	-9.047791	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	12/14/1994	15	5096	277.3	284.562817	-7.262817	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/14/1995	16	5431	275.75	288.437382	-12.687382	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/15/1996	17	5798	276.3	284.800887	-8.500887	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/19/1997	18	6167	277.99	287.852772	-9.862772	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/14/1998	19	6527	278.42	287.523182	-9.103182	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/17/1999	20	6895	277.7	290.290053	-12.590053	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/18/2000	21	7262	277.68	288.862294	-11.182294	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/13/2001	22	7622	279.92	287.664179	-7.744179	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/9/2002	23	7983	279.85	287.420239	-7.570239	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/22/2003	24	8361	279.71	288.589088	-8.879088	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/16/2004	25	8721	279.92	288.106588	-8.186588	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	3/4/2006	27	9194	279.32	287.721711	-8.401711	164	154	334

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/15/2006	27	9450	278.67	286.986103	-8.316103	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/17/2009	30	10548	279.55	285.136371	-5.586371	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/9/2010	31	10905	278.07	285.221146	-7.151146	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/16/2011	32	11277	277.44	283.978481	-6.538481	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	12/1/2012	33	11658	277.55	285.194436	-7.644436	164	154	334
3830501	6382294.374	19823067.62	108	67	1152781	420773	4	11/12/2013	34	12004	277.55	288.008973	-10.458973	164	154	334
3830502	6375766.172	19832318.02	106	67	1363015	483096	6	6/1/1983	4	882	180	187.464318	-7.464318	-187	-191	495
3832802	6459891.342	19824466.57	115	80	837518	310077	2	3/19/1982	3	443	326.1	279.010945	47.089055		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/10/1982	3	679	322	278.762339	43.237661		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/10/1983	4	1044	322.74	279.798293	42.941707		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/15/1984	5	1415	328.74	283.894301	44.845699		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	12/13/1986	7	2173	325.93	273.26414	52.66586		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/17/1987	8	2512	319.95	276.722095	43.227905		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	12/14/1988	9	2905	318.34	284.91392	33.42608		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	10/17/1989	10	3212	321.38	285.226665	36.153335		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/7/1990	11	3598	320.43	282.042848	38.387152		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	12/5/1991	12	3991	325.42	281.035174	44.384826		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/14/1992	13	4336	322	285.837839	36.162161		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	12/17/1993	14	4734	327.9	278.736107	49.163893		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	2/2/1995	16	5146	335.7	278.283014	57.416986		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/11/1995	16	5428	322.75	283.622188	39.127812		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/14/1997	18	6162	322.04	282.633581	39.406419		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/17/1998	19	6530	329.94	281.459597	48.480403		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/17/1999	20	6895	320.8	285.892995	34.907005		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/10/2000	21	7254	322.3	283.042693	39.257307		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/9/2001	22	7618	327.3	281.140472	46.159528		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/9/2002	23	7983	325.15	280.931938	44.218062		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	9/25/2003	24	8303	322.35	283.12719	39.22281		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/11/2004	25	8716	328.78	281.98278	46.79722		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	1/13/2006	27	9144	319	281.982335	37.017665		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/15/2006	27	9450	323.44	279.906887	43.533113		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	2/7/2008	29	9899	322.03	279.478781	42.551219		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/13/2008	29	10179	319.85	279.388628	40.461372		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/21/2009	30	10552	319.98	276.99984	42.98016		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/18/2010	31	10914	317.09	277.461268	39.628732		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	12/3/2011	32	11294	316.78	275.172206	41.607794		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/14/2012	33	11641	317.5	277.742029	39.757971		312	340
3832802	6459891.342	19824466.57	115	80	837518	310077	2	11/13/2013	34	12005	316.96	282.55759	34.40241		312	340
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	3/19/1982	3	443	233.79	241.777398	-7.987398	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/10/1982	3	679	230.64	241.5485	-10.9085	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/15/1984	5	1415	225.84	243.49359	-17.65359	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/10/1985	6	1775	229.1	242.360206	-13.260206	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	12/13/1986	7	2173	229.82	239.363632	-9.543632	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/17/1987	8	2512	229.62	240.395758	-10.775758	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	12/14/1988	9	2905	224.9	238.576004	-13.676004	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	10/17/1989	10	3212	228.22	244.869324	-16.649324	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/7/1990	11	3598	228.87	244.215477	-15.345477	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	12/5/1991	12	3991	224.68	244.332164	-19.652164	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/14/1992	13	4336	221.3	238.742659	-17.442659	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	12/17/1993	14	4734	229.55	243.054765	-13.504765	-150	-162	314

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	2/2/1995	16	5146	230.3	242.181183	-11.881183	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/11/1995	16	5428	227.28	244.521581	-17.241581	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/15/1996	17	5798	226.2	241.706575	-15.506575	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/14/1997	18	6162	225.98	244.453376	-18.473376	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/17/1998	19	6530	224.72	243.812469	-19.092469	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/17/1999	20	6895	224.3	245.870344	-21.570344	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/10/2000	21	7254	219.85	245.543666	-25.693666	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/9/2001	22	7618	219.8	236.951956	-17.151956	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/9/2002	23	7983	222.6	244.257483	-21.657483	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	9/25/2003	24	8303	221.25	245.316071	-24.066071	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/11/2004	25	8716	224.67	244.044832	-19.374832	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	1/13/2006	27	9144	223.66	243.701097	-20.041097	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/15/2006	27	9450	222.73	241.850344	-19.120344	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	2/7/2008	29	9899	221.64	242.154424	-20.514424	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/13/2008	29	10179	218.5	241.716635	-23.216635	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/19/2009	30	10550	217.49	241.294634	-23.804634	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/18/2010	31	10914	218.37	240.755327	-22.385327	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/14/2012	33	11641	217.92	240.187238	-22.267238	-150	-162	314
3832903	6473490.024	19817374.08	118	82	1160806	423388	4	11/13/2013	34	12005	217.64	243.206116	-25.566116	-150	-162	314
3833403	6178254.722	19778624.55	97	29	1450409	524651	7	1/1/1981	2	1	273	270.776091	2.223909	-204	-209	408
3833504	6185990.005	19772929.34	99	30	1451727	525258	7	3/20/1982	3	444	310.74	263.51146	47.22854	-302	-302	350
3833504	6185990.005	19772929.34	99	30	1451727	525258	7	11/18/1983	4	1052	307.47	263.422423	44.047577	-302	-302	350
3833505	6179227.334	19778051.98	97	29	1450409	524651	7	8/18/1984	5	1326	244	256.806336	-12.806336	-173	-178	374
3834104	6207437.17	19787100.05	98	35	1142475	416749	4	9/16/1993	14	4642	235.05	225.944301	9.105699		45	235
3834301	6234763.058	19798569.87	99	41	1358276	481806	6	4/30/1981	2	120	220.1	234.08533	-13.98533	-62	-62	258
3836702	6292365.798	19770009.46	109	47	1364729	483462	6	9/23/2010	31	10858	166	186.893028	-20.893028	-540	-559	306
3837105	6325517.016	19803877.77	106	56	1363004	483085	6	3/10/1981	2	69	192.2	200.272645	-8.072645		-320	482
3837105	6325517.016	19803877.77	106	56	1363004	483085	6	3/17/1982	3	441	180	196.528958	-16.528958		-320	482
3837105	6325517.016	19803877.77	106	56	1363004	483085	6	11/16/1982	3	685	175	194.754501	-19.754501		-320	482
3837105	6325517.016	19803877.77	106	56	1363004	483085	6	11/14/1984	5	1414	176	202.691145	-26.691145		-320	482
3837105	6325517.016	19803877.77	106	56	1363004	483085	6	2/11/1988	9	2598	135	199.675349	-64.675349		-320	482
3837901	6358044.028	19772484.88	115	59	837452	310019	2	3/17/1982	3	441	394.47	347.730938	46.739062	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/17/1982	3	686	394.1	347.555735	46.544265	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/17/1983	4	1051	394.6	347.830646	46.769354	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/14/1984	5	1414	394.17	349.401655	44.768345	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/9/1985	6	1774	394.78	348.090262	46.689738	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/18/1986	7	2148	394.7	345.639293	49.060707	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	2/11/1988	9	2598	393.57	347.266551	46.303449	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	1/25/1989	10	2947	393.85	349.854043	43.995957	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/29/1989	10	3255	393.29	350.085449	43.204551	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/30/1990	11	3621	392.08	348.807168	43.272832	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	12/3/1991	12	3989	393.85	348.346147	45.503853	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	2/17/1993	14	4431	393.65	349.772314	43.877686	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	12/8/1993	14	4725	396.5	347.674764	48.825236	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	12/14/1994	15	5096	395.15	346.557034	48.592966	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/14/1995	16	5431	395.58	349.277435	46.302565	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/15/1996	17	5798	394.7	346.726317	47.973683	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/19/1997	18	6167	394.54	348.898525	45.641475	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/14/1998	19	6527	394.89	348.606855	46.283145	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/17/1999	20	6895	394.9	350.426032	44.473968	124	124	439

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/18/2000	21	7262	393.87	349.22687	44.64313	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/13/2001	22	7622	394.55	348.419519	46.130481	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/12/2002	23	7986	395.5	348.25035	47.24965	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/22/2003	24	8361	395.32	349.143436	46.176564	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/16/2004	25	8721	394.58	348.749828	45.830172	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	3/4/2006	27	9194	394.65	348.517931	46.132069	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/15/2006	27	9450	394.55	347.904758	46.645242	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/13/2008	29	10179	395.7	347.644852	48.055148	124	124	439
3837901	6358044.028	19772484.88	115	59	837452	310019	2	11/17/2009	30	10548	395.69	346.839541	48.850459	124	124	439
3838705	6364215.166	19769803.64	116	59	1368794	484536	6	1/1/1981	2	1	187	188.606323	-1.606323	-733	-750	440
3839503	6418622.49	19782769.62	118	70	1370191	484792	6	9/1/1983	4	974	144	154.563283	-10.563283	-830	-865	420
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	3/20/1982	3	444	368.4	300.846749	67.553251	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/19/1982	3	688	367.1	300.284638	66.815362	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/18/1983	4	1052	368.48	301.034683	67.445317	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/15/1984	5	1415	368.22	305.846992	62.373008	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/8/1985	6	1773	367.23	302.580249	64.649751	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	12/3/1986	7	2163	368.9	294.758783	74.141217	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	2/10/1988	9	2597	369.45	298.795968	70.654032	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	1/31/1989	10	2953	369.05	306.809452	62.240548	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	12/6/1989	10	3262	366.9	308.249763	58.650237	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	12/19/1990	11	3640	369.07	304.516945	64.553055	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	12/13/1991	12	3989	369.3	302.740274	66.559726	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	2/17/1993	14	4431	370.6	306.916475	63.683525	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	12/16/1994	15	5098	370.9	297.301922	73.598078	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/8/1995	16	5425	370.2	304.643661	65.556339	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/20/1996	17	5803	368.92	298.049548	70.870452	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/20/1997	18	6168	368.93	303.549119	65.380881	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/20/1998	19	6533	369.96	303.39911	66.56089	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/16/1999	20	6894	369.45	308.834438	60.615562	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/17/2000	21	7261	369.12	306.059105	63.060895	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/6/2001	22	7615	370.68	303.11474	67.56526	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/6/2002	23	7980	370.45	302.378898	68.071102	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/12/2004	25	8717	369.88	303.927292	65.952708	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	3/8/2006	27	9198	369.94	303.339887	66.600113	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/8/2006	27	9443	369.35	301.709781	67.640219	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	2/5/2008	29	9897	369.95	300.545196	69.404804	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/14/2008	29	10180	370.05	300.343548	69.706452	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/19/2009	30	10550	370.1	297.725054	72.374946	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/20/2010	31	10916	367.69	297.804002	69.885998	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	9/28/2011	32	11228	368.1	295.845739	72.254261	302	291	460
3841203	6182214.578	19750802.27	102	27	1147200	418385	4	11/2/2013	34	11994	368.5	303.285872	65.214128	302	291	460
3841701	6174660.883	19710907.83	108	23	1152599	420591	4	3/19/1982	3	443	211.7	288.46402	-76.76402	0	-5	350
3841701	6174660.883	19710907.83	108	23	1152599	420591	4	11/20/1982	3	689	180.44	255.857831	-75.417831	0	-5	350
3841701	6174660.883	19710907.83	108	23	1152599	420591	4	11/18/1983	4	1052	209.12	288.520145	-79.400145	0	-5	350
3841701	6174660.883	19710907.83	108	23	1152599	420591	4	11/15/1984	5	1415	188.7	260.23124	-71.53124	0	-5	350
3841706	6174900.028	19709092.64	108	22	1457122	527222	7	6/29/1986	7	2006	298	275.990412	22.009588	-689	-700	333
3841707	6170819.02	19711680.36	107	22	1456531	527026	7	6/1/1994	15	4900	288	271.179483	16.820517	-785	-800	470
3841708	6168802.546	19712316.48	107	22	1456531	527026	7	11/19/2003	24	8358	266	260.266041	5.733959	-691	-691	493
3841901	6202427.264	19721756.96	109	28	1364710	483443	6	11/3/1989	10	3229	269	257.876515	11.123485	-277	-283	522
3841902	6199530.333	19720433.23	109	28	1364710	483443	6	8/22/2003	24	8269	236	240.023495	-4.023495	-367	-367	434

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	4/29/1981	2	119	260.27	259.802154	0.467846		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	11/19/1982	3	688	266.19	258.857807	7.332193		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	11/17/1983	4	1051	267.03	259.193695	7.836305		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	11/15/1984	5	1415	261	261.225958	-0.225958		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	11/8/1985	6	1773	262.88	260.842266	2.037734		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	12/2/1986	7	2162	255.18	255.861953	-0.681953		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	2/10/1988	9	2597	253.3	257.897342	-4.597342		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	2/15/1989	10	2968	262.08	261.694439	0.385561		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	12/6/1989	10	3262	258.4	262.351645	-3.951645		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	12/20/1990	11	3641	258.6	260.785977	-2.185977		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	11/16/1991	12	3972	261.18	259.961061	1.218939		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	2/17/1993	14	4431	258.2	261.915265	-3.715265		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	2/25/1994	15	4804	266.8	258.689087	8.110913		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	12/15/1994	15	5097	269.1	257.304165	11.795835		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	11/8/1995	16	5425	269.1	260.642758	8.457242		-212	421
3842702	6208661.944	19719557.14	110	29	1154612	421499	4	11/20/1996	17	5803	268.9	257.673433	11.226567		-212	421
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	4/29/1981	2	119	213.8	232.086044	-18.286044	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	3/19/1982	3	443	213.74	232.05981	-18.31981	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/19/1982	3	688	211.92	231.802417	-19.882417	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/17/1983	4	1051	211.76	231.938989	-20.178989	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/14/1984	5	1414	208.5	232.291342	-23.791342	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/8/1985	6	1773	207.52	231.599872	-24.079872	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	12/2/1986	7	2162	209.5	229.664297	-20.164297	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	2/10/1988	9	2597	208.5	229.435548	-20.935548	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	1/31/1989	10	2953	207.32	231.602616	-24.282616	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	12/6/1989	10	3262	202.45	231.388872	-28.938872	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	12/20/1990	11	3641	202.53	230.609168	-28.079168	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/16/1991	12	3972	209.78	231.503372	-21.723372	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	2/18/1993	14	4432	210	233.038431	-23.038431	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	2/26/1994	15	4805	204.5	230.483533	-25.983533	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/14/1995	16	5431	207.51	229.820918	-22.310918	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/20/1996	17	5803	206.15	228.335306	-22.185306	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/19/1997	18	6167	200.32	229.122275	-28.802275	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/20/1998	19	6533	202.23	228.881274	-26.651274	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/16/1999	20	6894	203.5	230.163464	-26.663464	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	9/13/2000	21	7196	202.16	231.003586	-28.843586	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/18/2000	21	7262	202.36	231.108989	-28.748989	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/13/2001	22	7622	202.4	230.033358	-27.633358	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/6/2002	23	7980	202	229.551375	-27.551375	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	9/26/2003	24	8304	201.45	229.181506	-27.731506	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	3/4/2006	27	9194	196.16	226.888633	-30.728633	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/8/2006	27	9443	196.18	224.880348	-28.700348	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	2/8/2008	29	9900	195.55	225.388066	-29.838066	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/13/2008	29	10179	196.25	224.401679	-28.151679	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/19/2009	30	10550	196.51	224.725418	-28.215418	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	11/20/2010	31	10916	194.79	223.456621	-28.666621	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	10/24/2012	33	11620	186.2	220.899055	-34.699055	-385	-385	291
3843101	6251512.676	19752192.6	108	39	1364073	483322	6	10/31/2013	34	11992	184.54	224.135912	-39.595912	-385	-385	291
3844503	6301466.262	19728619.74	117	45	839700	310765	2	3/10/1981	2	69	210.04	250.685837	-40.645837		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	3/16/1982	3	440	211.24	250.39382	-39.15382		-26	374

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/16/1982	3	685	209.58	250.332316	-40.752316		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/17/1983	4	1051	209.55	250.417093	-40.867093		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/14/1984	5	1414	209.04	251.052898	-42.012898		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/9/1985	6	1774	207.6	250.387254	-42.787254		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	2/11/1988	9	2598	208.97	250.486383	-41.516383		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	1/25/1989	10	2947	208.6	251.351579	-42.751579		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/29/1989	10	3255	208.96	251.387972	-42.427972		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/30/1990	11	3621	209.6	250.806032	-41.206032		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	12/3/1991	12	3989	211.15	250.615608	-39.465608		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	2/17/1993	14	4431	211.25	251.202852	-39.952852		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	12/8/1993	14	4725	211	250.442002	-39.442002		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/14/1995	16	5431	210.99	251.049588	-40.059588		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/16/1996	17	5799	209.2	249.583731	-40.383731		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/19/1997	18	6167	211.49	250.862673	-39.372673		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/14/1998	19	6527	211.25	250.486325	-39.236325		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/13/1999	20	6891	208.1	251.303622	-43.203622		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/18/2000	21	7262	207.45	250.863565	-43.413565		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/22/2003	24	8361	207.46	251.572854	-44.112854		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/16/2004	25	8721	207.94	251.094026	-43.154026		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	3/4/2006	27	9194	208.11	250.691347	-42.581347		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/15/2006	27	9450	207.6	250.454338	-42.854338		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	2/12/2008	29	9904	207.44	250.506574	-43.066574		-26	374
3844503	6301466.262	19728619.74	117	45	839700	310765	2	11/17/2009	30	10548	206.87	250.247996	-43.377996		-26	374
3844505	6304246.624	19728427.28	117	46	1369450	484645	6	8/9/1983	4	951	198	204.402867	-6.402867	-942	-944	378
3844701	6289707.127	19719232.8	117	42	839697	310762	2	4/12/2006	27	9233	181.6	205.483087	-23.883087		-50	325
3844906	6316812.298	19713428.24	121	46	844232	312641	2	8/24/1982	3	601	185	252.743446	-67.743446	-299	-299	335
3845403	6335520.438	19739222.66	118	52	841024	311286	2	3/16/1982	3	440	230.33	299.078131	-68.748131		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/17/1982	3	686	229.9	299.018795	-69.118795		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/17/1983	4	1051	230.01	299.102957	-69.092957		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/14/1984	5	1414	233.13	299.640338	-66.510338		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/9/1985	6	1774	227.5	299.160567	-71.660567		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/18/1986	7	2148	228.3	298.387899	-70.087899		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	2/11/1988	9	2598	229	298.942041	-69.942041		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	1/25/1989	10	2947	228.56	299.828181	-71.268181		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/29/1989	10	3255	227.9	299.901382	-72.001382		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/30/1990	11	3621	224.7	299.47043	-74.77043		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	12/3/1991	12	3989	224	299.335517	-75.335517		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	2/17/1993	14	4431	229.8	299.772111	-69.972111		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	12/8/1993	14	4725	215.1	299.064546	-83.964546		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	12/14/1994	15	5096	214	298.608514	-84.608514		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/14/1995	16	5431	226.39	299.637036	-73.247036		-206	334
3845403	6335520.438	19739222.66	118	52	841024	311286	2	11/15/1996	17	5798	229.9	298.681868	-68.781868		-206	334
3846502	6380555.215	19745762.27	121	60	1371816	485176	6	11/28/1983	4	1062	170	176.377978	-6.377978	-1120	-1140	400
3849502	6193233.21	19689092.86	113	24	1366890	484086	6	10/11/1989	10	3206	254	249.160407	4.839593	-646	-663	395
3849601	6201630.503	19687174.2	114	25	1157611	422517	4	9/15/1993	14	4641	252.04	252.559932	-0.519932		-120	292
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	3/19/1982	3	443	266.31	241.396777	24.913223	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/19/1982	3	688	265.35	241.245422	24.104578	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/19/1983	4	1053	264.28	241.330029	22.949971	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/15/1984	5	1415	263.19	241.81147	21.37853	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/8/1985	6	1773	262.06	241.37926	20.68074	-771	-812	308

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	12/2/1986	7	2162	261.16	239.914806	21.245194	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	2/10/1988	9	2597	260.25	239.530473	20.719527	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	2/15/1989	10	2968	258.69	241.133646	17.556354	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	12/6/1989	10	3262	258.1	241.164981	16.935019	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	12/20/1990	11	3641	257.9	239.60014	18.29986	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/16/1991	12	3972	257.45	240.112474	17.337526	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	2/18/1993	14	4432	257.1	241.499937	15.600063	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	2/25/1994	15	4804	256.8	239.775737	17.024263	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	12/15/1994	15	5097	256.5	238.472981	18.027019	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/20/1996	17	5803	254.1	237.844931	16.255069	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/20/1997	18	6168	253.29	238.305244	14.984756	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/19/1998	19	6532	252.5	238.380156	14.119844	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/13/1999	20	6891	251.5	239.215731	12.284269	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	9/13/2000	21	7196	250.1	239.779813	10.320187	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/17/2000	21	7261	249.8	239.848472	9.951528	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/13/2001	22	7622	250	239.21494	10.78506	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/6/2002	23	7980	249.23	238.820991	10.409009	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	9/26/2003	24	8304	248.5	238.260784	10.239216	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	3/7/2006	27	9197	246.24	236.550442	9.689558	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/8/2006	27	9443	245.66	235.252926	10.407074	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	2/8/2008	29	9900	245.93	235.206764	10.723236	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/14/2008	29	10180	244.98	234.618105	10.361895	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/20/2009	30	10551	244.15	234.561028	9.588972	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/20/2010	31	10916	244.15	233.827926	10.322074	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	9/30/2011	32	11230	241.7	232.042619	9.657381	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	10/24/2012	33	11620	241	231.851018	9.148982	-771	-812	308
3849802	6193693.925	19671884.05	116	22	1368757	484499	6	11/1/2013	34	11993	240.68	234.010452	6.669548	-771	-812	308
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	3/19/1982	3	443	263.56	247.0441	16.5159	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	11/19/1982	3	688	263.05	246.879449	16.170551	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	11/17/1983	4	1051	263.18	247.087761	16.092239	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	11/8/1985	6	1773	260.94	247.521673	13.418327	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	12/2/1986	7	2162	263.18	245.23535	17.94465	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	2/10/1988	9	2597	262.15	246.273115	15.876885	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	2/15/1989	10	2968	258.53	248.494651	10.035349	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	12/6/1989	10	3262	255.8	248.839738	6.960262	-153	-153	335
3850101	6211062.51	19699380.6	113	28	1156888	422352	4	12/20/1990	11	3641	256.6	247.757468	8.842532	-153	-153	335
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/16/1991	12	3972	256.33	247.245961	9.084039	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	2/17/1993	14	4431	256.6	248.426297	8.173703	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	2/25/1994	15	4804	256.5	246.475185	10.024815	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	3/18/1994	15	4825	256.37	246.377486	9.992514	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	12/15/1994	15	5097	256	245.639612	10.360388	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/8/1995	16	5425	255.9	247.771752	8.128248	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/20/1996	17	5803	252.75	245.901679	6.848321	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/20/1997	18	6168	252.84	247.437696	5.402304	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/20/1998	19	6533	251.41	247.466912	3.943088	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/13/1999	20	6891	251.9	248.882951	3.017049	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/17/2000	21	7261	251.2	248.303698	2.896302	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/13/2001	22	7622	251.1	247.465292	3.634708	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/6/2002	23	7980	251.55	247.271857	4.278143	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	3/4/2006	27	9194	251.06	247.390444	3.669556	-204	-214	336

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/8/2006	27	9443	250.16	246.84339	3.31661	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/14/2008	29	10180	250.36	246.43476	3.92524	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/20/2009	30	10551	249.56	245.735964	3.824036	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/20/2010	31	10916	248.27	245.688994	2.581006	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	9/30/2011	32	11230	245.67	244.970821	0.699179	-204	-214	336
3850102	6210908.359	19698868.3	113	27	1156887	422351	4	11/1/2013	34	11993	245.3	247.188601	-1.888601	-204	-214	336
3850301	6235294.813	19709719.15	114	32	836192	309508	2	7/23/1993	14	4587	208.85	201.804286	7.045714	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/20/1997	18	6168	206.31	202.169471	4.140529	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/20/1998	19	6533	206.39	202.039338	4.350662	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/16/1999	20	6894	205.65	203.095706	2.554294	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/17/2000	21	7261	207.88	202.441958	5.438042	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/13/2001	22	7622	206.35	201.916945	4.433055	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/6/2002	23	7980	207	201.830367	5.169633	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	9/26/2003	24	8304	206.02	202.278521	3.741479	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/13/2004	25	8718	208.07	202.120353	5.949647	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	3/7/2006	27	9197	206.28	202.004278	4.275722	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/8/2006	27	9443	205.85	201.671175	4.178825	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	2/8/2008	29	9900	206.07	201.500112	4.569888	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/20/2009	30	10551	206.3	200.863246	5.436754	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/20/2010	31	10916	204.58	200.945987	3.634013	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	9/30/2011	32	11230	203.4	200.43311	2.96689	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	10/24/2012	33	11620	202.81	200.97391	1.83609	20	20	240
3850301	6235294.813	19709719.15	114	32	836192	309508	2	11/1/2013	34	11993	202.75	202.143115	0.606885	20	20	240
3851301	6276514.477	19697633.81	119	38	842168	311746	2	3/16/1982	3	440	188.55	209.326395	-20.776395		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	11/16/1982	3	685	187.36	209.308984	-21.948984		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	11/17/1983	4	1051	186.52	209.318838	-22.798838		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	11/18/1986	7	2148	184.97	209.166884	-24.196884		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	2/11/1988	9	2598	183.1	209.288911	-26.188911		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	1/25/1989	10	2947	178.29	209.509263	-31.219263		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	11/29/1989	10	3255	184.6	209.531588	-24.931588		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	11/30/1990	11	3621	185.2	209.402055	-24.202055		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	12/5/1991	12	3991	186	209.367117	-23.367117		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	2/17/1993	14	4431	182.2	209.517044	-27.317044		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	12/8/1993	14	4725	179.4	209.33414	-29.93414		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	12/14/1994	15	5096	186	209.111991	-23.111991		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	11/14/1995	16	5431	183.38	209.429983	-26.049983		-300	300
3851301	6276514.477	19697633.81	119	38	842168	311746	2	11/16/1996	17	5799	183.7	209.130083	-25.430083		-300	300
3852701	6289125.935	19681410.85	123	39	846478	313677	2	3/10/1981	2	69	198.82	221.944489	-23.124489		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/16/1982	3	685	201.5	221.900582	-20.400582		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/14/1984	5	1414	199.6	221.950926	-22.350926		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/9/1985	6	1774	198.65	221.898538	-23.248538		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/18/1986	7	2148	198.47	221.845551	-23.375551		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	2/11/1988	9	2598	197.95	221.848164	-23.898164		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	1/31/1989	10	2953	197.32	221.969535	-24.649535		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/29/1989	10	3255	197.8	221.980057	-24.180057		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/30/1990	11	3621	197.8	221.922771	-24.122771		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	12/5/1991	12	3991	197.65	221.916483	-24.266483		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	2/17/1993	14	4431	199.2	222.003519	-22.803519		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	12/8/1993	14	4725	199.1	221.906084	-22.806084		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	12/14/1994	15	5096	199.5	221.783489	-22.283489		-278	280

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/14/1995	16	5431	197.53	221.926582	-24.396582		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/16/1996	17	5799	197.5	221.79519	-24.29519		-278	280
3852701	6289125.935	19681410.85	123	39	846478	313677	2	11/14/1998	19	6527	197.85	221.877098	-24.027098		-278	280
3857502	6194446.222	19639690.33	122	19	845179	313002	2	3/18/1982	3	442	252.98	278.543728	-25.563728		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/18/1982	3	687	250.72	278.505768	-27.785768		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/19/1983	4	1053	251.83	278.543383	-26.713383		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/15/1984	5	1415	249.32	278.811409	-29.491409		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/7/1985	6	1772	247.56	278.649897	-31.089897		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/15/1986	7	2145	246.5	278.207051	-31.707051		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	2/12/1988	9	2599	247.97	278.177026	-30.207026		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	1/7/1989	10	2929	247.14	278.553453	-31.413453		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	12/7/1989	10	3263	245.5	277.984919	-32.484919		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	12/5/1990	11	3626	245.73	278.027516	-32.297516		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	2/22/1992	13	4070	247.34	277.472132	-30.132132		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	1/6/1993	14	4389	247.47	277.858638	-30.388638		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/9/1993	14	4696	246.2	278.808399	-32.608399		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	12/15/1994	15	5097	247.5	278.204045	-30.704045		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/14/1995	16	5431	247.2	278.425705	-31.225705		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/20/1996	17	5803	245.52	278.072404	-32.552404		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/5/1997	18	6153	245.7	278.121844	-32.421844		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/19/1998	19	6532	245.25	279.027596	-33.777596		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	2/22/2001	22	7358	244.6	278.990394	-34.390394		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/14/2001	22	7623	243.3	278.875529	-35.575529		-120	340
3857502	6194446.222	19639690.33	122	19	845179	313002	2	11/14/2002	23	7988	243.16	278.722614	-35.562614		-120	340
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	3/11/1981	2	70	271.68	237.088087	34.591913	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	9/18/1981	2	261	269.81	237.11607	32.69393	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	3/18/1982	3	442	267.44	246.230772	21.209228	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	11/19/1983	4	1053	267.74	237.090261	30.649739	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	11/15/1986	7	2145	264.41	236.029828	28.380172	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	1/7/1989	10	2929	265.67	236.607638	29.062362	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	12/7/1989	10	3263	286	236.785656	49.214344	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	12/5/1990	11	3626	282.4	235.610473	46.789527	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	11/9/1993	14	4696	259.5	243.286706	16.213294	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	12/15/1994	15	5097	268.7	234.729545	33.970455	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	11/14/1995	16	5431	259	242.19459	16.80541	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	11/5/1997	18	6153	256.9	241.084312	15.815688	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	6/18/1998	19	6378	257.43	241.393518	16.036482	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	11/19/1998	19	6532	256.9	234.441544	22.458456	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	11/14/2001	22	7623	255.89	235.308679	20.581321	-1136	-1136	380
3857701	6183430.394	19629761.96	122	17	1372304	485254	6	12/14/2006	27	9479	249.16	231.635724	17.524276	-1136	-1136	380
3906902	6073825.51	19938907.64	61	27	1580184	609383	9	4/22/1981	2	112	356.4	358.941619	-2.541619		325	380
3906903	6080904.479	19945935.11	60	29	1579883	609135	9	4/9/1994	15	4847	370.1	359.686156	10.413844		359	380
3907202	6105097.471	19978072.1	57	36	1579004	608407	9	5/30/1998	19	6359	300	297.228825	2.771175	220	220	320
3907604	6111562.61	19957828.57	61	35	1580200	609399	9	5/26/1996	17	5625	299	289.433795	9.566205	27	27	360
3908407	6125183.704	19957088.97	63	37	1580890	609970	9	4/23/1981	2	113	251	264.184583	-13.184583		-18	322
3914501	6064881.613	19910237.87	65	23	1581566	610518	9	4/22/1981	2	112	369	367.637109	1.362891		297	420
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	4/22/1981	2	112	389.59	412.593788	-23.003788	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/20/1981	2	324	389.16	412.474606	-23.314606	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	4/18/1984	5	1204	390.06	413.019023	-22.959023	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/8/1984	5	1408	389.58	413.407435	-23.827435	300	300	430

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/12/1985	6	1777	389.75	412.686845	-22.936845	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/19/1987	8	2514	390.62	411.492013	-20.872013	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	12/1/1988	9	2892	390.32	413.536184	-23.216184	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/9/1989	10	3235	390.6	413.811966	-23.211966	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	10/17/1990	11	3577	391	413.050505	-22.050505	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/14/1991	12	3970	392.5	410.571299	-18.071299	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	2/23/1993	14	4437	393.43	411.462327	-18.032327	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	2/16/1994	15	4795	393.7	410.125566	-16.425566	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/6/1996	17	5789	391.6	410.742708	-19.142708	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/21/1997	18	6169	391.5	412.025153	-20.525153	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/19/1998	19	6532	391.6	411.880196	-20.280196	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/13/1999	20	6891	391.4	413.42527	-22.02527	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	9/12/2000	21	7195	391.24	412.825033	-21.585033	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/21/2001	22	7630	391.32	412.091944	-20.771944	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/22/2002	23	7996	391.5	411.834893	-20.334893	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/12/2003	24	8351	391.43	412.461471	-21.031471	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/16/2004	25	8721	391.25	412.339117	-21.089117	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	12/9/2005	26	9109	391.55	412.402618	-20.852618	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	10/21/2006	27	9425	391.41	411.816504	-20.406504	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/29/2007	28	9829	391.81	411.597139	-19.787139	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/9/2008	29	10175	391.7	411.522716	-19.822716	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/19/2009	30	10550	391.58	410.974249	-19.394249	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	11/20/2010	31	10916	391.32	410.959428	-19.639428	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	9/29/2011	32	11229	391.04	410.469481	-19.429481	300	300	430
3914702	6050000.541	19891203.1	67	18	1582230	611090	9	10/31/2013	34	11992	391.72	412.20688	-20.48688	300	300	430
3915408	6088999.039	19905376.44	68	26	1582560	611381	9	3/25/1981	2	84	358	335.017365	22.982635	100	100	398
3915503	6101626.874	19906518.23	69	28	1516187	560960	8	4/23/1981	2	113	316.6	308.863093	7.736907		315	350
3915503	6101626.874	19906518.23	69	28	1516187	560960	8	11/20/1981	2	324	318.08	308.251124	9.828876		315	350
3915503	6101626.874	19906518.23	69	28	1516187	560960	8	4/18/1984	5	1204	317.69	308.477401	9.212599		315	350
3915707	6094556.874	19899081.31	69	27	1582905	611683	9	8/12/1985	6	1685	286	303.247158	-17.247158	-30	-72	390
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	4/23/1981	2	113	300.72	314.302972	-13.582972	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/20/1981	2	324	299.47	313.826422	-14.356422	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	4/13/1984	5	1199	289.95	313.955122	-24.005122	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	4/18/1984	5	1204	287.43	314.005912	-26.575912	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/8/1984	5	1408	285.06	315.803997	-30.743997	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/12/1986	7	2142	282.9	310.389386	-27.489386	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/19/1987	8	2514	280.11	307.768269	-27.658269	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	12/1/1988	9	2892	277.3	311.589997	-34.289997	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/9/1989	10	3235	274.89	312.582107	-37.692107	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	10/17/1990	11	3577	270.4	312.277396	-41.877396	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/14/1991	12	3970	265.65	307.00728	-41.35728	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	2/23/1993	14	4437	272.24	313.441899	-41.201899	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	2/16/1994	15	4795	271.05	309.503837	-38.453837	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	2/23/1995	16	5167	264.06	308.706104	-44.646104	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/15/1995	16	5432	258.05	312.407715	-54.357715	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/6/1996	17	5789	253.9	311.851101	-57.951101	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/20/1997	18	6168	253.8	314.923035	-61.123035	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/19/1998	19	6532	259	314.61931	-55.61931	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/9/1999	20	6887	253.4	318.102281	-64.702281	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	9/12/2000	21	7195	246.85	318.181651	-71.331651	-86	-86	410

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/21/2001	22	7630	252.54	314.16532	-61.62532	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/21/2002	23	7995	244.63	311.929266	-67.299266	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/12/2003	24	8351	242.11	312.964681	-70.854681	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/16/2004	25	8721	246.05	311.290819	-65.240819	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	12/9/2005	26	9109	236.72	309.643422	-72.923422	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	10/21/2006	27	9425	227.2	306.462871	-79.262871	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/29/2007	28	9829	236.43	306.545122	-70.115122	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/9/2008	29	10175	237.7	304.856789	-67.156789	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/19/2009	30	10550	239.88	304.394974	-64.514974	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	11/20/2010	31	10916	230.92	302.116166	-71.196166	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	9/29/2011	32	11229	222.81	298.84241	-76.03241	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	10/25/2012	33	11621	232.97	299.9205	-66.9505	-86	-86	410
3915802	6097241.485	19891168.71	71	26	1583645	612326	9	10/31/2013	34	11992	232.93	304.609792	-71.679792	-86	-86	410
3915813	6098304.573	19895359.58	70	27	1583286	612007	9	9/19/2001	22	7567	253	282.569201	-29.569201	-73	-93	367
3916204	6134856.656	19922066.59	69	35	1582913	611691	9	4/23/1981	2	113	251.7	275.684639	-23.984639		25	355
3916204	6134856.656	19922066.59	69	35	1582913	611691	9	11/20/1981	2	324	251.16	275.264932	-24.104932		25	355
3916204	6134856.656	19922066.59	69	35	1582913	611691	9	4/12/1984	5	1198	258.7	275.980433	-17.280433		25	355
3916802	6139120.651	19896581.59	74	34	1435148	515457	7	9/29/2011	32	11229	245.03	286.232921	-41.202921	-29	-76	390
3916802	6139120.651	19896581.59	74	34	1435148	515457	7	10/25/2012	33	11621	250.1	287.472527	-37.372527	-29	-76	390
3916802	6139120.651	19896581.59	74	34	1435148	515457	7	10/31/2013	34	11992	250.89	294.457472	-43.567472	-29	-76	390
3921901	6045652.254	19842325.87	74	13	1584499	613041	9	4/22/1981	2	112	454.2	468.405796	-14.205796		449	470
3921903	6038772.29	19849497.65	73	13	1584241	612820	9	1/15/1981	2	15	482.7	495.46178	-12.76178	388	388	530
3921903	6038772.29	19849497.65	73	13	1584241	612820	9	3/10/1982	3	434	481.8	494.993598	-13.193598	388	388	530
3921904	6043804.841	19840745.56	74	13	1584499	613041	9	1/15/1981	2	15	477.2	480.296434	-3.096434		395	495
3921904	6043804.841	19840745.56	74	13	1584499	613041	9	3/10/1982	3	434	478.3	479.916723	-1.616723		395	495
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	4/22/1981	2	112	477.44	481.249279	-3.809279		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/21/1981	2	325	476.77	480.941019	-4.171019		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	4/18/1984	5	1204	476.9	481.409418	-4.509418		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/8/1984	5	1408	476.6	482.561065	-5.961065		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/12/1985	6	1777	476.72	481.72286	-5.00286		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/12/1986	7	2142	477.01	477.346596	-0.336596		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/19/1987	8	2514	477.57	476.666528	0.903472		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	12/1/1988	9	2892	477.12	481.59239	-4.47239		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/9/1989	10	3235	477.29	483.399337	-6.109337		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	10/17/1990	11	3577	476.35	482.515148	-6.165148		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/14/1991	12	3970	478.17	481.728217	-3.558217		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	2/23/1993	14	4437	479.48	483.56913	-4.08913		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	2/23/1995	16	5167	477.77	479.456267	-1.686267		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/15/1995	16	5432	478.78	481.888917	-3.108917		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/6/1996	17	5789	477.9	479.092961	-1.192961		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/19/1998	19	6532	478.02	481.486756	-3.466756		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/9/1999	20	6887	478.1	483.810608	-5.710608		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	9/12/2000	21	7195	477.65	483.25177	-5.60177		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/21/2001	22	7630	477.96	481.748902	-3.788902		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/21/2002	23	7995	477.83	480.827332	-2.997332		351	511
3922411	6052369.096	19855920.62	73	16	1584244	612823	9	11/12/2003	24	8351	477.64	481.686644	-4.046644		351	511
3922513	6060095.758	19859722.09	73	17	1584245	612824	9	7/25/1999	20	6780	375	464.091306	-89.091306	161	149	489
3922513	6060095.758	19859722.09	73	17	1584245	612824	9	9/17/1999	20	6834	389	464.668573	-75.668573	161	149	489
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	4/24/1981	2	114	306.63	358.627944	-51.997944	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/8/1984	5	1408	302.42	359.971403	-57.551403	170	128	370

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/9/1989	10	3235	286.8	337.345227	-50.545227	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	10/17/1990	11	3577	285.6	358.46977	-72.86977	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/14/1991	12	3970	290.95	354.363258	-63.413258	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	2/16/1994	15	4795	285.67	355.590741	-69.920741	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	2/23/1995	16	5167	292.23	352.803271	-60.573271	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/15/1995	16	5432	283	356.09979	-73.09979	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/6/1996	17	5789	271.9	354.560325	-82.660325	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/21/1997	18	6169	277.59	356.466207	-78.876207	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/19/1998	19	6532	279.9	357.082147	-77.182147	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/9/1999	20	6887	274.3	360.24885	-85.94885	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	9/12/2000	21	7195	257.65	329.680562	-72.030562	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/21/2001	22	7630	272.77	332.177947	-59.407947	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/22/2002	23	7996	268.17	355.618788	-87.448788	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/12/2003	24	8351	276.97	356.146429	-79.176429	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/16/2004	25	8721	276.7	355.496819	-78.796819	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/29/2007	28	9829	305.37	351.614234	-46.244234	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/9/2008	29	10175	304.2	350.470851	-46.270851	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/19/2009	30	10550	301.85	349.176998	-47.326998	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	11/20/2010	31	10916	299.28	347.587027	-48.307027	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	9/29/2011	32	11229	295.02	345.1153	-50.0953	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	10/25/2012	33	11621	297.5	345.019395	-47.519395	170	128	370
3923101	6084493.503	19885769.29	71	24	1517091	561486	8	10/31/2013	34	11992	300.66	348.986538	-48.326538	170	128	370
3923104	6096585.265	19882635.18	72	25	1583974	612599	9	9/7/2005	26	9016	178.8	245.320803	-66.520803	-97	-97	428
3923105	6085020.433	19885483.41	71	24	1517095	561490	8	4/5/1985	6	1556	288	337.293959	-49.293959	159	138	360
3923302	6112508.107	19878523.15	74	28	1518300	562376	8	11/12/1985	6	1777	260.48	270.349998	-9.869998	-87	-111	470
3923302	6112508.107	19878523.15	74	28	1518300	562376	8	11/13/1986	7	2143	275.18	268.99246	6.18754	-87	-111	470
3923302	6112508.107	19878523.15	74	28	1518300	562376	8	11/19/1987	8	2514	265.7	263.162578	2.537422	-87	-111	470
3923302	6112508.107	19878523.15	74	28	1518300	562376	8	12/1/1988	9	2892	266.9	268.086695	-1.186695	-87	-111	470
3923303	6112536.214	19877713.24	75	28	1584766	613268	9	11/20/1981	2	324	251.66	247.826742	3.833258	-258	-268	458
3923311	6113339.594	19876930.6	75	28	1584766	613268	9	1/17/1987	8	2208	218	228.48855	-10.48855	-222	-222	458
3923314	6122678.691	19876242.89	76	29	1585025	613491	9	6/30/1999	20	6755	220	264.358033	-44.358033	-262	-280	450
3923314	6122678.691	19876242.89	76	29	1585025	613491	9	8/12/1999	20	6798	175	251.271535	-76.271535	-262	-280	450
3923315	6122540.531	19880190.04	75	29	1584767	613269	9	12/8/2002	23	8012	182.8	226.339508	-43.539508	-230	-235	465
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	4/24/1981	2	114	346.6	362.369014	-15.769014	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/20/1981	2	324	374.95	361.660467	13.289533	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	4/17/1984	5	1203	358.81	362.037248	-3.227248	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/8/1984	5	1408	371.65	364.746208	6.903792	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/12/1985	6	1777	372.51	363.677684	8.832316	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/12/1986	7	2142	371.53	356.132881	15.397119	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/19/1987	8	2514	368.59	352.875854	15.714146	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	12/1/1988	9	2892	368.8	359.508849	9.291151	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/9/1989	10	3235	334.38	354.687208	-20.307208	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	10/17/1990	11	3577	367.38	362.274721	5.105279	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/14/1991	12	3970	371	359.470144	11.529856	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	2/23/1993	14	4437	375.58	365.450552	10.129448	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	2/15/1994	15	4794	371.9	359.689197	12.210803	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	2/23/1995	16	5167	372.27	355.59285	16.67715	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/15/1995	16	5432	369.7	360.701316	8.998684	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/6/1996	17	5789	348.45	355.94446	-7.49446	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/20/1997	18	6168	367.9	362.138753	5.761247	110	110	460

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/19/1998	19	6532	369.58	362.436103	7.143897	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/9/1999	20	6887	352.3	367.7953	-15.4953	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	9/12/2000	21	7195	331.97	367.109831	-35.139831	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/21/2001	22	7630	354.82	362.789107	-7.969107	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/21/2002	23	7995	356.27	360.055431	-3.785431	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/12/2003	24	8351	351.35	361.578321	-10.228321	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/18/2004	25	8723	354.8	360.738374	-5.938374	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	12/9/2005	26	9109	332.3	360.988146	-28.688146	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	10/20/2006	27	9424	330.8	349.776359	-18.976359	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/9/2008	29	10175	322.48	355.055158	-32.575158	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/19/2009	30	10550	327.31	352.787538	-25.477538	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/20/2010	31	10916	314.08	350.556433	-36.476433	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	10/25/2012	33	11621	333.15	347.262289	-14.112289	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	10/31/2013	34	11992	330.89	353.833299	-22.943299	110	110	460
3923410	6091056.437	19870287.56	74	23	1584512	613054	9	6/1/1983	4	882	307	327.725376	-20.725376	-63	-68	457
3923411	6090980.56	19869980.76	74	23	1584512	613054	9	4/27/2005	26	8883	296.5	322.141041	-25.641041	-93	-98	447
3923508	6102354.513	19857805.75	77	24	1585290	613717	9	4/12/1991	12	3754	225	281.353819	-56.353819	-112	-138	460
3923509	6102350.271	19860439.96	77	24	1585290	613717	9	7/18/1991	12	3851	254	293.845855	-39.845855	-256	-266	470
3923606	6113309.387	19860413.39	78	26	1585607	613976	9	4/16/1982	3	471	203	260.225938	-57.225938	-273	-273	433
3923903	6114239.706	19855987.81	78	26	1585607	613976	9	12/24/2008	29	10220	171	242.01554	-71.01554	-280	-285	430
3924204	6137955.031	19878402.46	77	32	1519337	563151	8	4/25/2000	21	7055	283	287.838322	-4.838322	-120	-120	460
3924508	6138823.396	19868503.16	79	31	1520164	563723	8	3/17/2000	21	7016	286	291.77802	-5.77802	-216	-216	442
3924603	6153935.882	19865698.45	80	33	1439277	518437	7	4/6/1994	15	4844	473.5	385.175733	88.324267		459	480
3924704	6132527.232	19856222.67	80	29	1520615	564032	8	1/9/2001	22	7314	280	296.740787	-16.740787	-250	-255	395
3924801	6142015.998	19853923.82	81	30	1440015	518875	7	8/23/1981	2	235	333.5	324.396961	9.103039		316	380
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	4/23/1981	2	113	320.5	293.408486	27.091514		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/20/1981	2	324	319.71	292.910445	26.799555		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	4/17/1984	5	1203	315.87	294.591236	21.278764		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/8/1984	5	1408	313.59	296.405753	17.184247		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	10/17/1990	11	3577	305.72	294.964052	10.755948		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/14/1991	12	3970	304.5	293.446641	11.053359		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	2/23/1993	14	4437	302.95	296.679687	6.270313		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	2/15/1994	15	4794	301.79	291.345355	10.444645		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/5/1996	17	5788	295	288.762192	6.237808		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/19/1998	19	6532	294.3	293.269119	1.030881		-330	400
3929201	6031681.452	19831233.45	75	10	1584748	613250	9	3/10/1982	3	434	484.8	490.570236	-5.770236		399	511
3929203	6027451.606	19831198.44	75	9	1584747	613249	9	1/1/1981	2	1	490	498.015911	-8.015911		470	514
3929203	6027451.606	19831198.44	75	9	1584747	613249	9	3/10/1982	3	434	490.8	497.088882	-6.288882		470	514
3929301	6042482.819	19828341.92	76	11	1585007	613473	9	3/10/1982	3	434	450.33	461.330803	-11.00803		357	479
3929501	6030769.969	19819349.59	77	9	1585275	613702	9	1/16/1981	2	16	431.4	452.831238	-21.431238		261	491
3929502	6033658.873	19815492.07	78	9	1585584	613953	9	1/16/1981	2	16	414.3	454.216062	-39.916062		222	470
3929502	6033658.873	19815492.07	78	9	1585584	613953	9	3/10/1982	3	434	414.2	453.607456	-39.407456		222	470
3929504	6030350.883	19824300.54	76	9	1585005	613471	9	1/15/1981	2	15	453.4	467.911303	-14.511303		298	469
3929504	6030350.883	19824300.54	76	9	1585005	613471	9	3/10/1982	3	434	453.6	467.680416	-14.080416		298	469
3929505	6032671.509	19819309.98	77	9	1585275	613702	9	1/15/1981	2	15	434.2	453.673108	-19.473108		256	496
3929511	6031123.851	19811053.34	78	8	1585583	613952	9	1/16/1981	2	16	394.4	440.158224	-45.758224		255	450
3929511	6031123.851	19811053.34	78	8	1585583	613952	9	3/10/1982	3	434	395.8	439.819662	-44.019662		255	450
3929601	6038329.864	19820607.64	77	10	1585276	613703	9	2/8/1981	2	39	451	464.170125	-13.170125		103	503
3929601	6038329.864	19820607.64	77	10	1585276	613703	9	3/10/1982	3	434	452	463.426737	-11.426737		103	503
3929602	6039325.985	19821855.7	77	10	1585276	613703	9	4/25/1981	2	115	462.4	463.882574	-1.482574		182	502

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/19/1998	19	6532	369.58	362.436103	7.143897	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/9/1999	20	6887	352.3	367.7953	-15.4953	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	9/12/2000	21	7195	331.97	367.109831	-35.139831	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/21/2001	22	7630	354.82	362.789107	-7.969107	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/21/2002	23	7995	356.27	360.055431	-3.785431	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/12/2003	24	8351	351.35	361.578321	-10.228321	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/18/2004	25	8723	354.8	360.738374	-5.938374	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	12/9/2005	26	9109	332.3	360.988146	-28.688146	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	10/20/2006	27	9424	330.8	349.776359	-18.976359	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/9/2008	29	10175	322.48	355.055158	-32.575158	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/19/2009	30	10550	327.31	352.787538	-25.477538	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	11/20/2010	31	10916	314.08	350.556433	-36.476433	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	10/25/2012	33	11621	333.15	347.262289	-14.112289	110	110	460
3923404	6094548.909	19858956.83	76	23	1518968	562873	8	10/31/2013	34	11992	330.89	353.833299	-22.943299	110	110	460
3923410	6091056.437	19870287.56	74	23	1584512	613054	9	6/1/1983	4	882	307	327.725376	-20.725376	-63	-68	457
3923411	6090980.56	19869980.76	74	23	1584512	613054	9	4/27/2005	26	8883	296.5	322.141041	-25.641041	-93	-98	447
3923508	6102354.513	19857805.75	77	24	1585290	613717	9	4/12/1991	12	3754	225	281.353819	-56.353819	-112	-138	460
3923509	6102350.271	19860439.96	77	24	1585290	613717	9	7/18/1991	12	3851	254	293.845855	-39.845855	-256	-266	470
3923606	6113309.387	19860413.39	78	26	1585607	613976	9	4/16/1982	3	471	203	260.225938	-57.225938	-273	-273	433
3923903	6114239.706	19855987.81	78	26	1585607	613976	9	12/24/2008	29	10220	171	242.01554	-71.01554	-280	-285	430
3924204	6137955.031	19878402.46	77	32	1519337	563151	8	4/25/2000	21	7055	283	287.838322	-4.838322	-120	-120	460
3924508	6138823.396	19868503.16	79	31	1520164	563723	8	3/17/2000	21	7016	286	291.77802	-5.77802	-216	-216	442
3924603	6153935.882	19865698.45	80	33	1439277	518437	7	4/6/1994	15	4844	473.5	385.175733	88.324267		459	480
3924704	6132527.232	19856222.67	80	29	1520615	564032	8	1/9/2001	22	7314	280	296.740787	-16.740787	-250	-255	395
3924801	6142015.998	19853923.82	81	30	1440015	518875	7	8/23/1981	2	235	333.5	324.396961	9.103039		316	380
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	4/23/1981	2	113	320.5	293.408486	27.091514		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/20/1981	2	324	319.71	292.910445	26.799555		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	4/17/1984	5	1203	315.87	294.591236	21.278764		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/8/1984	5	1408	313.59	296.405753	17.184247		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	10/17/1990	11	3577	305.72	294.964052	10.755948		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/14/1991	12	3970	304.5	293.446641	11.053359		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	2/23/1993	14	4437	302.95	296.679687	6.270313		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	2/15/1994	15	4794	301.79	291.345355	10.444645		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/5/1996	17	5788	295	288.762192	6.237808		-330	400
3924907	6162666.759	19850914.72	84	33	1442281	520156	7	11/19/1998	19	6532	294.3	293.269119	1.030881		-330	400
3929201	6031681.452	19831233.45	75	10	1584748	613250	9	3/10/1982	3	434	484.8	490.570236	-5.770236		399	511
3929203	6027451.606	19831198.44	75	9	1584747	613249	9	1/1/1981	2	1	490	498.015911	-8.015911		470	514
3929203	6027451.606	19831198.44	75	9	1584747	613249	9	3/10/1982	3	434	490.8	497.088882	-6.288882		470	514
3929301	6042482.819	19828341.92	76	11	1585007	613473	9	3/10/1982	3	434	450.33	461.330803	-11.00803		357	479
3929501	6030769.969	19819349.59	77	9	1585275	613702	9	1/16/1981	2	16	431.4	452.831238	-21.431238		261	491
3929502	6033658.873	19815492.07	78	9	1585584	613953	9	1/16/1981	2	16	414.3	454.216062	-39.916062		222	470
3929502	6033658.873	19815492.07	78	9	1585584	613953	9	3/10/1982	3	434	414.2	453.607456	-39.407456		222	470
3929504	6030350.883	19824300.54	76	9	1585005	613471	9	1/15/1981	2	15	453.4	467.911303	-14.511303		298	469
3929504	6030350.883	19824300.54	76	9	1585005	613471	9	3/10/1982	3	434	453.6	467.680416	-14.080416		298	469
3929505	6032671.509	19819309.98	77	9	1585275	613702	9	1/15/1981	2	15	434.2	453.673108	-19.473108		256	496
3929511	6031123.851	19811053.34	78	8	1585583	613952	9	1/16/1981	2	16	394.4	440.158224	-45.758224		255	450
3929511	6031123.851	19811053.34	78	8	1585583	613952	9	3/10/1982	3	434	395.8	439.819662	-44.019662		255	450
3929601	6038329.864	19820607.64	77	10	1585276	613703	9	2/8/1981	2	39	451	464.170125	-13.170125		103	503
3929601	6038329.864	19820607.64	77	10	1585276	613703	9	3/10/1982	3	434	452	463.426737	-11.426737		103	503
3929602	6039325.985	19821855.7	77	10	1585276	613703	9	4/25/1981	2	115	462.4	463.882574	-1.482574		182	502

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3929605	6035838.679	19822857.12	77	10	1585276	613703	9	1/16/1981	2	16	457.5	466.325128	-8.825128		377	508
3929606	6042044.092	19823261.68	77	11	1585277	613704	9	2/18/1981	2	49	466.4	462.054313	4.345687		387	530
3929606	6042044.092	19823261.68	77	11	1585277	613704	9	3/10/1981	2	69	465.7	462.012032	3.687968		387	530
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	1/1/1981	2	1	400.24	429.805604	-29.565604	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	3/31/1981	2	90	399.72	429.57042	-29.85042	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	4/25/1981	2	115	398.84	429.513814	-30.673814	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	10/4/1981	2	277	399.75	429.231401	-29.481401	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	3/10/1982	3	434	400.91	428.93168	-28.02168	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/10/1982	3	679	401.22	428.468001	-27.248001	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/8/1983	4	1042	400.6	428.626513	-28.026513	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/7/1984	5	1407	398.98	431.049638	-32.069638	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/9/1985	6	1774	400.38	430.00592	-29.62592	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/12/1986	7	2142	400.26	425.909353	-25.649353	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/20/1987	8	2515	398.7	425.431963	-26.731963	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	1/10/1989	10	2932	400	430.389467	-30.389467	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/7/1989	10	3233	399.69	431.743051	-32.053051	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/7/1990	11	3598	398.86	420.899726	-22.039726	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/7/1991	12	3963	400.5	428.915879	-28.415879	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/12/1992	13	4334	400.6	430.851977	-30.251977	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	12/17/1994	15	5099	402.84	424.120307	-21.280307	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/14/1995	16	5431	403.26	427.077097	-23.817097	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/5/1996	17	5788	401.9	423.776214	-21.876214	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/21/1997	18	6169	401.1	425.781876	-24.681876	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/19/1998	19	6532	394	426.27336	-32.27336	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/13/1999	20	6891	396	429.352351	-33.352351	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	9/14/2000	21	7197	387.73	428.880677	-41.150677	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/28/2000	21	7272	391.65	428.777098	-37.127098	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/21/2001	22	7630	393.3	427.233809	-33.933809	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/22/2002	23	7996	394.95	426.344382	-31.394382	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/11/2003	24	8350	393.61	427.298133	-33.688133	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/17/2004	25	8722	395.2	427.139767	-31.939767	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	12/10/2005	26	9110	394.72	427.215228	-32.495228	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	10/20/2006	27	9424	392.95	425.669398	-32.719398	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/30/2007	28	9830	393.82	424.632174	-30.812174	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	2/12/2009	30	10270	393.6	423.705253	-30.105253	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/18/2009	30	10549	392.7	422.489231	-29.789231	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	11/18/2010	31	10914	392.68	421.81957	-29.13957	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	9/28/2011	32	11228	389.1	420.05363	-30.95363	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	10/25/2012	33	11621	389	420.294591	-31.294591	221	221	461
3929801	6034116.215	19806691.97	79	8	1585898	614219	9	10/30/2013	34	11991	386.15	423.816872	-37.666872	221	221	461
3929803	6031663.272	19807727.19	79	8	1585898	614219	9	1/16/1981	2	16	396.9	431.779635	-34.879635		103	450
3929803	6031663.272	19807727.19	79	8	1585898	614219	9	1/30/1981	2	30	390.9	431.748459	-40.848459		103	450
3929804	6029204.25	19798225.62	80	6	1586216	614488	9	3/11/1982	3	435	386.2	388.531552	-2.331552		315	415
3929806	6032833.91	19798241.32	80	7	1586224	614496	9	1/30/1981	2	30	373.8	398.610225	-24.810225		193	433
3929806	6032833.91	19798241.32	80	7	1586224	614496	9	3/10/1982	3	434	381.2	397.991671	-16.791671		193	433
3929807	6033095.039	19795514.21	81	7	1586575	614782	9	1/17/1981	2	17	373.6	389.605136	-16.005136		244	420
3929807	6033095.039	19795514.21	81	7	1586575	614782	9	3/10/1982	3	434	376.5	389.100458	-12.600458		244	420
3929901	6035494.02	19798833.99	81	8	1586579	614786	9	1/16/1981	2	16	410.3	402.24001	8.05999		400	442
3929901	6035494.02	19798833.99	81	8	1586579	614786	9	3/10/1982	3	434	412.2	401.518843	10.681157		400	442
3930303	6075964.899	19839379.79	78	18	1585599	613968	9	5/3/1994	15	4871	297.6	336.95991	-39.35991	-128	-318	497

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	4/21/1981	2	111	369.86	381.019314	-11.159314		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/20/1981	2	324	366.57	380.461712	-13.891712		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	4/17/1984	5	1203	363.55	380.651741	-17.101741		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/7/1984	5	1407	363.55	382.780855	-19.230855		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/12/1985	6	1777	367.48	382.011512	-14.531512		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/12/1986	7	2142	355.65	376.40257	-20.75257		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/19/1987	8	2514	353.76	374.379533	-20.619533		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	12/2/1988	9	2893	350.99	378.713441	-27.723441		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/9/1989	10	3235	350.4	381.650796	-31.250796		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	10/17/1990	11	3577	349.37	379.925664	-30.555664		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/14/1991	12	3970	349.25	378.086629	-28.836629		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	2/23/1993	14	4437	349.44	381.65333	-32.21333		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	2/15/1994	15	4794	349.05	377.279927	-28.229927		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	2/23/1995	16	5167	346.31	372.798773	-26.488773		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/15/1995	16	5432	344.35	375.842248	-31.492248		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/6/1996	17	5789	341.55	371.899869	-30.349869		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/20/1997	18	6168	341	374.576511	-33.576511		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/19/1998	19	6532	339	374.382459	-35.382459		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	9/12/2000	21	7195	335.52	377.114268	-41.594268		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/21/2001	22	7630	332.05	373.616949	-41.566949		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/21/2002	23	7995	330.37	371.062288	-40.692288		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/12/2003	24	8351	330.65	359.740707	-29.090707		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	12/9/2005	26	9109	325.96	372.728152	-46.768152		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	10/20/2006	27	9424	323.47	370.47244	-47.00244		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/29/2007	28	9829	324.18	369.641628	-45.461628		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/9/2008	29	10175	322.9	368.320418	-45.420418		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/19/2009	30	10550	324.7	366.807864	-42.107864		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	11/18/2010	31	10914	319.85	364.947465	-45.097465		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	9/29/2011	32	11229	312.23	362.02658	-49.79658		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	10/25/2012	33	11621	320.7	362.179315	-41.479315		59	480
3930605	6075259.077	19821827.51	80	16	1520593	564010	8	10/31/2013	34	11992	317.52	367.019347	-49.499347		59	480
3930609	6086445.626	19812883.37	83	17	1522151	564902	8	11/11/1998	19	6524	328	342.808479	-14.808479	48	32	504
3930702	6060442.305	19799752.51	83	12	1522140	564891	8	1/17/1981	2	17	375.2	383.903991	-8.703991		362	424
3930702	6060442.305	19799752.51	83	12	1522140	564891	8	3/10/1982	3	434	374.9	382.810353	-7.910353		362	424
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	1/1/1981	2	1	381.305	391.459604	-10.154604		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	3/28/1981	2	87	381.2	391.280798	-10.080798		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	4/25/1981	2	115	380.21	391.214669	-11.004669		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	10/4/1981	2	277	379.65	390.868144	-11.218144		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	3/10/1982	3	434	379.9	390.536508	-10.636508		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/10/1982	3	679	380.46	389.971826	-9.511826		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/8/1983	4	1042	379.55	389.982021	-10.432021		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/7/1984	5	1407	356	392.537426	-36.537426		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/9/1985	6	1774	360.98	391.980565	-31.000565		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/12/1986	7	2142	356.44	387.670971	-31.230971		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/20/1987	8	2515	354	386.271278	-32.271278		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	1/10/1989	10	2932	352.1	389.637669	-37.537669		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/7/1989	10	3233	351.57	391.241103	-39.671103		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/7/1990	11	3598	351.35	389.426024	-38.076024		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/7/1991	12	3963	355.57	386.135024	-30.565024		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/12/1992	13	4334	355	386.791814	-31.791814		75	445

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	3/24/1994	15	4831	354.2	382.407852	-28.207852		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	12/17/1994	15	5099	354.42	379.20542	-24.78542		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/14/1995	16	5431	353.4	380.612078	-27.212078		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/5/1996	17	5788	349.95	377.303183	-27.353183		75	445
3930703	6057877.092	19806759.81	81	12	1586583	614790	9	11/21/1997	18	6169	351.7	378.862552	-27.162552		75	445
3930704	6049066.016	19806672.19	81	11	1586582	614789	9	3/28/1981	2	87	410.7	405.935608	4.764392		135	495
3930704	6049066.016	19806672.19	81	11	1586582	614789	9	3/9/1982	3	433	412.2	405.191063	7.008937		135	495
3930706	6054905.733	19805141.84	81	11	1586582	614789	9	1/17/1981	2	17	383.3	392.670718	-9.370718		1	453
3930706	6054905.733	19805141.84	81	11	1586582	614789	9	3/10/1982	3	434	383.4	391.778191	-8.378191		1	453
3930708	6059548.052	19803268.99	82	12	1587045	615209	9	8/31/1982	3	608	379.2	380.577991	-1.377991	84	84	424
3930709	6058479.37	19801612.34	82	12	1587045	615209	9	8/31/1982	3	608	375.4	378.78001	-3.38001	97	97	442
3930711	6050105.183	19796068.14	82	10	1587043	615207	9	1/30/1981	2	30	385.5	383.151775	2.348225		154	456
3930711	6050105.183	19796068.14	82	10	1587043	615207	9	3/10/1982	3	434	385.9	382.360473	3.539527		154	456
3930712	6059857.882	19799125.13	83	12	1587444	615558	9	1/17/1981	2	17	377.1	376.247199	0.852801		-9	423
3930712	6059857.882	19799125.13	83	12	1587444	615558	9	3/10/1982	3	434	377.6	375.382801	2.217199		-9	423
3930713	6060203.203	19799136.57	83	12	1587444	615558	9	1/17/1981	2	17	377	376.179492	0.820508		8	418
3930714	6056175.118	19800726.15	82	11	1587044	615208	9	3/10/1982	3	434	425.4	395.274008	30.125992		205	455
3930715	6058821.319	19801725.05	82	12	1587045	615209	9	11/6/1982	3	675	405.1	387.403185	17.696815	28	18	438
3930717	6059169.963	19801635.18	82	12	1521653	564610	8	4/16/1992	13	4124	372	380.382158	-8.382158	52	32	432
3930906	6079255.497	19805750.6	83	15	1522149	564900	8	4/21/1981	2	111	455	392.655744	62.344256		452	485
3931105	6088131.012	19839588.07	79	20	1585913	614234	9	10/23/1998	19	6505	286	323.094797	-37.094797	-87	-97	533
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	4/24/1981	2	114	343.55	329.549055	14.000945	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/20/1981	2	324	343.62	328.947766	14.672234	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	4/17/1984	5	1203	342.79	329.637085	13.152915	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/12/1985	6	1777	344.8	330.48426	14.31574	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/12/1986	7	2142	342.73	323.577055	19.152945	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/19/1987	8	2514	331.83	321.939618	9.890382	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	12/2/1988	9	2893	332.6	328.796221	3.803779	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/9/1989	10	3235	332.23	331.584632	0.645368	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	10/17/1990	11	3577	332.05	329.442407	2.607593	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/14/1991	12	3970	332.65	327.558631	5.091369	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	2/15/1994	15	4794	332.17	326.989248	5.180752	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	2/23/1995	16	5167	332.1	323.358486	8.741514	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/15/1995	16	5432	329.5	327.888303	1.611697	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/5/1996	17	5788	328.9	323.324057	5.575943	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/20/1997	18	6168	328.25	326.92708	1.32292	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/19/1998	19	6532	327.29	327.270883	0.019117	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/9/1999	20	6887	327	330.524895	-3.524895	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	9/12/2000	21	7195	324.07	329.996815	-5.926815	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/21/2001	22	7630	332.4	326.72459	5.67541	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/21/2002	23	7995	334.08	324.549511	9.530489	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/12/2003	24	8351	335.55	325.939226	9.610774	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/18/2004	25	8723	333.4	325.385933	8.014067	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	12/9/2005	26	9109	333.17	325.377647	7.792353	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	10/20/2006	27	9424	332.7	322.50188	10.19812	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/29/2007	28	9829	333.41	321.49189	11.91811	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/9/2008	29	10175	332.3	320.1089	12.1911	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/19/2009	30	10550	333.6	317.867017	15.732983	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	11/18/2010	31	10914	330.6	315.980246	14.619754	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	9/29/2011	32	11229	328.58	312.532063	16.047937	-139	-139	490

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	10/25/2012	33	11621	330.1	313.189707	16.910293	-139	-139	490
3931301	6121366.129	19832322.87	83	25	1522159	564910	8	10/31/2013	34	11992	328.67	319.807239	8.862761	-139	-139	490
3931305	6113671.862	19832561.83	82	24	1440747	519255	7	4/8/1994	15	4846	413.4	370.840279	42.559721		356	475
3931411	6095711.321	19814819.61	83	19	1441447	519646	7	2/2/1983	4	763	341	358.218231	-17.218231	106	106	501
3931803	6101769.035	19799423.53	87	19	1444615	521648	7	4/24/1981	2	114	359	350.849806	8.150194		140	435
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	4/24/1981	2	114	332.58	316.421297	16.158703	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/21/1981	2	325	332	315.915008	16.084992	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	4/17/1984	5	1203	332.39	317.285825	15.104175	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/8/1984	5	1408	325.71	319.136654	6.573346	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/12/1985	6	1777	327.35	317.055593	10.294407	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/12/1986	7	2142	328.4	309.997113	18.402887	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/19/1987	8	2514	325.55	309.809577	15.740423	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	12/2/1988	9	2893	326.5	318.074286	8.425714	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/9/1989	10	3235	326.3	320.346963	5.953037	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/14/1991	12	3970	328.95	316.489227	12.460773	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	2/23/1993	14	4437	328.36	319.650435	8.709565	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	2/15/1994	15	4794	328.9	314.684594	14.215406	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	2/23/1995	16	5167	351.04	312.538779	38.501221	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/15/1995	16	5432	355.95	317.072479	38.877521	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/5/1996	17	5788	356.3	311.897637	44.402363	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/21/1997	18	6169	355.71	316.02261	39.68739	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/19/1998	19	6532	356.5	316.344034	40.155966	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/9/1999	20	6887	357.2	320.339816	36.860184	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	9/13/2000	21	7196	357.28	318.990597	38.289403	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/21/2001	22	7630	357.62	316.514713	41.105287	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/21/2002	23	7995	358.05	315.399593	42.650407	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/12/2003	24	8351	358.08	316.865988	41.214012	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/18/2004	25	8723	358.54	316.275705	42.264295	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	12/9/2005	26	9109	357.5	316.346858	41.153142	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	10/20/2006	27	9424	357.8	313.997994	43.802006	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/29/2007	28	9829	357.25	312.533033	44.716967	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/9/2008	29	10175	357.8	311.725684	46.074316	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/19/2009	30	10550	357.89	308.719851	49.170149	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	11/18/2010	31	10914	356.3	307.718638	48.581362	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	9/29/2011	32	11229	357.1	304.732349	52.367651	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	10/25/2012	33	11621	356.43	305.373858	51.056142	91	91	415
3932205	6142897.094	19836425.29	84	29	1442255	520130	7	10/31/2013	34	11992	356.92	312.09277	44.82723	91	91	415
3932209	6144938.215	19834876.72	85	29	1523153	565533	8	7/26/1984	5	1303	313	308.900434	4.099566	32	32	437
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	1/1/1981	2	1	390.65	389.217013	1.432987		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	3/31/1981	2	90	391.34	388.918268	2.421732		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	10/3/1981	2	276	391.49	388.570722	2.919278		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	3/11/1982	3	435	394.68	388.261894	6.418106		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/11/1982	3	680	392.72	387.850207	4.869793		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/8/1983	4	1042	395.75	388.141497	7.608503		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/6/1984	5	1406	394.5	390.801565	3.698435		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/8/1985	6	1773	393.01	389.413459	3.596541		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/11/1986	7	2141	393.23	384.924193	8.305807		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/20/1987	8	2515	394.81	385.159375	9.650625		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/7/1989	10	3233	399.25	392.065364	7.184636		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/7/1990	11	3598	399.52	390.421585	9.098415		196	448

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/7/1991	12	3963	401.38	388.399576	12.980424		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/12/1992	13	4334	401	390.167259	10.832741		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	3/24/1994	15	4831	402.4	384.405419	17.994581		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	12/17/1994	15	5099	402.11	382.437597	19.672403		196	448
3937102	6014967.431	19781154.72	82	3	1587000	615164	9	11/14/1995	16	5431	402.65	385.94009	16.70991		196	448
3937201	6025947.84	19781201.21	83	4	1587413	615527	9	4/11/1981	2	101	378.7	378.397625	0.302375		66	395
3937201	6025947.84	19781201.21	83	4	1587413	615527	9	3/11/1982	3	435	377.6	378.043603	-0.443603		66	395
3937202	6033471.75	19791879.01	82	7	1587037	615201	9	5/20/1981	2	140	376.1	377.566128	-1.466128		138	403
3937301	6038657.509	19786575.94	83	7	1587436	615550	9	1/1/1981	2	1	371.4	372.428937	-1.028937		97	390
3937301	6038657.509	19786575.94	83	7	1587436	615550	9	4/29/1981	2	119	370.1	372.270299	-2.170299		97	390
3937301	6038657.509	19786575.94	83	7	1587436	615550	9	2/4/1982	3	400	370.9	372.007769	-1.107769		97	390
3937302	6042593.197	19782549.93	84	7	1587836	615852	9	3/10/1982	3	434	372.2	368.583252	3.616748		60	368
3937306	6046796.339	19786233.15	84	8	1587839	615855	9	3/10/1982	3	434	385.1	374.060717	11.039283		216	442
3937307	6046800.721	19794034.76	82	9	1587042	615206	9	3/14/1981	2	73	394.9	386.547752	8.352248		60	460
3937401	6020333.91	19778285.99	83	3	1587411	615525	9	1/30/1981	2	30	382	389.765649	-7.765649		293	472
3937401	6020333.91	19778285.99	83	3	1587411	615525	9	3/11/1982	3	435	383.4	388.881945	-5.481945		293	472
3937501	6026432.333	19771490.41	84	4	1587814	615830	9	3/11/1982	3	435	456.1	407.487424	48.612576		438	487
3937502	6030413.65	19771416.02	85	4	1588171	616119	9	3/7/1981	2	66	446.2	399.248885	46.951115		426	480
3937503	6030573.555	19771826.39	85	4	1588171	616119	9	3/11/1982	3	435	438	396.039563	41.960437		424	475
3937505	6032117.899	19764175.92	86	4	1588600	616452	9	3/11/1982	3	435	375.4	374.853276	0.546724		-39	412
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/1/1981	2	1	363.18	355.134415	8.045585	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1981	2	70	364.88	355.014928	9.865072	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1981	2	75	365.02	355.005048	10.014952	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1981	2	80	365	354.995168	10.004832	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1981	2	85	364.91	354.985288	9.924712	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1981	2	90	365.09	354.975407	10.114593	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1981	2	96	365.07	354.963551	10.106449	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1981	2	101	365.03	354.953671	10.076329	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1981	2	106	364.97	354.943791	10.026209	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1981	2	111	365.02	354.934072	10.085928	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1981	2	116	365.11	354.92464	10.18536	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1981	2	121	365.11	354.915208	10.194792	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1981	2	126	365.18	354.905776	10.274224	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1981	2	131	365.15	354.896345	10.253655	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1981	2	136	365.11	354.886913	10.223087	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1981	2	141	365.29	354.877481	10.412519	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1981	2	146	365.42	354.86805	10.55195	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1981	2	151	365.45	354.858618	10.591382	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1981	2	157	365.7	354.8473	10.8527	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1981	2	162	365.93	354.837868	11.092132	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1981	2	167	366.06	354.828436	11.231564	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1981	2	172	366.14	354.819005	11.320995	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1981	2	177	366.05	354.809573	11.240427	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1981	2	182	366	354.800615	11.199385	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1981	2	187	366.03	354.792385	11.237615	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1981	2	192	366.01	354.784155	11.225845	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1981	2	197	365.99	354.775924	11.214076	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1981	2	202	365.92	354.767694	11.152306	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1981	2	207	365.8	354.759464	11.040536	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1981	2	212	365.67	354.751233	10.918767	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1981	2	218	365.53	354.741357	10.788643	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1981	2	223	365.38	354.733126	10.646874	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1981	2	228	365.26	354.724896	10.535104	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1981	2	233	365.19	354.716666	10.473334	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1981	2	238	365.05	354.708435	10.341565	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1981	2	243	365.03	354.700205	10.329795	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1981	2	249	365.12	354.690328	10.429672	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1981	2	254	365.09	354.682098	10.407902	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1981	2	259	365.15	354.673868	10.476132	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1981	2	264	365.13	354.665637	10.464363	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1981	2	269	365.09	354.658551	10.431449	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1981	2	274	365.05	354.651756	10.398244	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1981	2	279	365.02	354.64496	10.37504	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1981	2	284	365.08	354.638165	10.441835	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1981	2	289	365.49	354.63137	10.85863	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1981	2	294	364.48	354.624574	9.855426	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1981	2	299	365.67	354.617779	11.052221	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1981	2	304	365.63	354.610984	11.019016	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1981	2	310	365.7	354.602829	11.097171	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1981	2	315	365.76	354.596034	11.163966	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1981	2	320	365.82	354.589238	11.230762	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1981	2	325	365.9	354.582443	11.317557	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1981	2	330	365.84	354.575648	11.264352	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1981	2	335	365.85	354.568852	11.281148	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1981	2	340	365.83	354.562057	11.267943	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1981	2	345	365.8	354.555262	11.244738	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1981	2	350	365.83	354.548466	11.281534	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1981	2	355	365.78	354.541671	11.238329	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1981	2	360	365.83	354.534876	11.295124	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1981	2	365	365.77	354.52808	11.24192	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1982	3	371	365.76	354.516739	11.243261	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1982	3	376	365.67	354.50596	11.16404	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1982	3	381	365.73	354.495181	11.234819	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1982	3	386	365.74	354.484401	11.255599	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1982	3	391	365.68	354.473622	11.206378	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1982	3	396	365.73	354.462843	11.267157	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1982	3	402	365.73	354.449908	11.280092	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1982	3	417	365.85	354.41753	11.43247	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1982	3	422	365.82	354.406538	11.413462	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1982	3	425	365.86	354.399942	11.460058	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1982	3	430	366.08	354.38895	11.69105	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1982	3	435	366.07	354.377957	11.692043	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1982	3	440	366.14	354.366965	11.773035	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1982	3	445	366.12	354.355973	11.764027	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1982	3	450	366.27	354.34498	11.92502	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1982	3	455	366.3	354.333988	11.966012	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1982	3	461	366.35	354.320797	12.029203	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1982	3	466	366.15	354.309805	11.840195	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1982	3	471	366.2	354.298812	11.901188	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1982	3	476	366.14	354.288038	11.851962	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1982	3	481	366.32	354.27804	12.04196	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1982	3	486	366.3	354.268042	12.031958	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1982	3	491	366.3	354.258045	12.041955	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1982	3	496	366.25	354.248047	12.001953	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1982	3	501	366.45	354.23805	12.21195	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1982	3	506	366.41	354.228052	12.181948	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1982	3	511	366.38	354.218055	12.161945	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1982	3	516	366.35	354.208057	12.141943	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1982	3	522	366.22	354.19606	12.02394	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1982	3	527	366.14	354.186062	11.953938	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1982	3	532	366.1	354.176065	11.923935	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1982	3	537	365.93	354.166067	11.763933	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1982	3	542	365.94	354.15607	11.78393	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1982	3	547	365.9	354.146478	11.753522	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1982	3	552	365.82	354.137867	11.682133	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1982	3	557	365.74	354.129255	11.610745	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1982	3	562	365.66	354.120644	11.539356	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1982	3	567	365.56	354.112033	11.447967	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1982	3	572	365.45	354.103422	11.346578	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1982	3	577	365.31	354.094811	11.215189	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1982	3	583	365.15	354.084477	11.065523	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1982	3	588	365.02	354.075866	10.944134	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1982	3	593	364.93	354.067255	10.862745	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1982	3	598	364.82	354.058644	10.761356	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1982	3	603	364.75	354.050033	10.699967	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1982	3	608	364.64	354.041422	10.598578	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1982	3	614	364.55	354.031088	10.518912	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1982	3	619	364.47	354.022477	10.447523	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1982	3	624	364.4	354.013866	10.386134	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1982	3	629	364.37	354.005255	10.364745	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1982	3	634	364.22	353.997744	10.222256	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1982	3	639	364.17	353.990618	10.179382	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1982	3	644	364.11	353.983491	10.126509	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1982	3	649	364.12	353.976364	10.143636	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1982	3	654	364.12	353.969238	10.150762	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1982	3	659	364.07	353.962111	10.107889	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1982	3	664	363.98	353.954984	10.025016	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1982	3	669	364.7	353.947858	10.752142	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1982	3	675	364.11	353.939306	10.170694	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1982	3	680	364.15	353.932179	10.217821	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1982	3	685	364.05	353.925053	10.124947	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1982	3	690	364.2	353.917926	10.282074	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1982	3	695	364.07	353.910799	10.159201	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1982	3	700	364.33	353.903673	10.426327	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1982	3	705	364.76	353.896546	10.863454	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1982	3	710	365.18	353.88942	11.29058	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1982	3	715	365.3	353.882293	11.417707	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1982	3	720	365.31	353.875166	11.434834	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1982	3	725	365.41	353.86804	11.54196	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1982	3	730	365.37	353.860913	11.509087	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1983	4	736	365.36	353.858086	11.501914	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1983	4	741	365.52	353.858116	11.661884	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1983	4	746	365.45	353.858146	11.591854	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1983	4	751	365.65	353.858175	11.791825	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1983	4	756	365.64	353.858205	11.781795	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1983	4	761	365.67	353.858235	11.811765	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1983	4	767	365.81	353.858271	11.951729	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1983	4	772	365.95	353.8583	12.0917	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1983	4	777	365.91	353.85833	12.05167	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1983	4	782	366.01	353.858757	12.151243	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1983	4	787	366	353.860873	12.139127	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1983	4	790	366.01	353.862143	12.147857	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1983	4	795	366.25	353.864259	12.385741	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1983	4	800	366.03	353.866375	12.163625	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1983	4	805	366.14	353.868491	12.271509	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1983	4	810	366.13	353.870608	12.259392	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1983	4	815	366.22	353.872724	12.347276	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1983	4	820	366.19	353.87484	12.31516	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1983	4	826	366.26	353.877379	12.382621	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1983	4	831	366.13	353.879495	12.250505	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1983	4	836	366.04	353.881612	12.158388	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1983	4	841	366.12	353.883818	12.236182	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1983	4	846	366.01	353.886347	12.123653	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1983	4	851	365.97	353.888876	12.081124	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1983	4	856	365.89	353.891405	11.998595	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1983	4	861	365.81	353.893933	11.916067	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1983	4	866	365.91	353.896462	12.013538	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1983	4	871	366.02	353.898991	12.121009	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1983	4	876	366.03	353.90152	12.12848	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1983	4	881	365.96	353.904049	12.055951	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1983	4	887	365.9	353.907083	11.992917	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1983	4	892	365.81	353.909612	11.900388	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1983	4	897	365.76	353.912141	11.847859	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1983	4	902	365.75	353.914467	11.83533	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1983	4	907	365.67	353.917199	11.752801	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1983	4	912	365.66	353.91968	11.74032	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1983	4	917	365.61	353.922044	11.687956	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1983	4	922	365.5	353.924409	11.575591	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1983	4	927	365.51	353.926773	11.583227	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1983	4	932	365.54	353.929138	11.610862	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1983	4	937	365.52	353.931503	11.588497	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1983	4	942	365.45	353.933867	11.516133	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1983	4	948	365.44	353.936705	11.503295	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1983	4	953	365.35	353.939069	11.410931	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1983	4	958	365.3	353.941434	11.358566	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1983	4	963	365.39	353.943798	11.446202	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1983	4	968	365.47	353.946163	11.523837	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1983	4	973	365.51	353.948528	11.561472	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1983	4	979	365.51	353.951365	11.558635	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1983	4	984	365.37	353.95373	11.41627	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1983	4	989	365.32	353.956094	11.363906	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1983	4	994	365.37	353.958459	11.411541	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1983	4	999	365.22	353.960553	11.259447	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1983	4	1004	365.21	353.962552	11.247448	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1983	4	1009	365.23	353.964552	11.265448	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1983	4	1014	365.2	353.966551	11.233449	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1983	4	1019	365.23	353.96855	11.26145	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1983	4	1024	365.25	353.97055	11.27945	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1983	4	1029	365.15	353.972549	11.177451	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1983	4	1034	365.11	353.974549	11.135451	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1983	4	1040	365.18	353.976948	11.203052	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1983	4	1045	365.15	353.978947	11.171053	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1983	4	1050	365.23	353.980947	11.249053	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1983	4	1055	365.23	353.982946	11.247054	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1983	4	1060	365.28	353.984946	11.295054	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1983	4	1065	365.18	353.986945	11.193055	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1983	4	1070	365.28	353.988944	11.291056	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1983	4	1075	365.32	353.990944	11.329056	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/15/1983	4	1079	365.32	353.992543	11.327457	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1984	5	1171	365.86	354.511376	11.348624	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1984	5	1176	365.8	354.550052	11.249948	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1984	5	1181	365.8	354.588729	11.211271	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1984	5	1186	365.69	354.627405	11.062595	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1984	5	1192	365.65	354.673816	10.976184	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1984	5	1197	365.72	354.712493	11.007507	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1984	5	1202	365.55	354.751169	10.798831	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1984	5	1207	365.64	354.789036	10.850964	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1984	5	1212	365.5	354.82578	10.67422	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1984	5	1217	365.32	354.862523	10.457477	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1984	5	1222	365.38	354.899267	10.480733	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1984	5	1227	365.2	354.93601	10.26399	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1984	5	1232	365.05	354.972754	10.077246	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1984	5	1237	365.16	355.009498	10.150502	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1984	5	1242	365.09	355.046241	10.043759	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1984	5	1247	364.94	355.082985	9.857015	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1984	5	1253	365.05	355.127077	9.922923	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1984	5	1258	365.04	355.16382	9.87618	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1984	5	1263	364.96	355.200564	9.759436	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1984	5	1268	364.8	355.237308	9.562692	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1984	5	1273	364.74	355.274051	9.465949	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1984	5	1278	364.71	355.308448	9.401552	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1984	5	1283	364.64	355.340429	9.299571	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1984	5	1288	364.51	355.372409	9.137591	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1984	5	1293	364.39	355.40439	8.98561	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1984	5	1298	364.28	355.43637	8.84363	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1984	5	1303	364.17	355.46835	8.70165	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1984	5	1308	364.1	355.500331	8.599669	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1984	5	1314	364	355.538707	8.461293	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1984	5	1319	363.91	355.570688	8.339312	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1984	5	1324	363.81	355.602668	8.207332	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1984	5	1329	363.76	355.634649	8.125351	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1984	5	1334	363.61	355.666629	7.943371	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1984	5	1339	363.5	355.698609	7.801391	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1984	5	1345	363.4	355.736986	7.663014	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1984	5	1350	363.38	355.768966	7.611034	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1984	5	1355	363.27	355.800947	7.469053	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1984	5	1360	363.2	355.832927	7.367073	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1984	5	1365	363.13	355.85959	7.27041	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1984	5	1370	362.99	355.885922	7.104078	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1984	5	1375	363.05	355.912254	7.137746	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1984	5	1380	363.51	355.938587	7.571413	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1984	5	1385	363.99	355.964919	8.025081	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1984	5	1390	364.29	355.991251	8.298749	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1984	5	1395	364.48	356.017583	8.462417	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1984	5	1400	364.7	356.043915	8.656085	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1984	5	1406	364.78	356.075514	8.704486	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1984	5	1411	364.83	356.101846	8.728154	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1984	5	1416	364.77	356.128178	8.641822	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1984	5	1421	364.73	356.15451	8.57549	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1984	5	1426	364.95	356.180843	8.769157	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1984	5	1431	365.05	356.207175	8.842825	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1984	5	1436	365.02	356.233507	8.786493	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1984	5	1441	365.11	356.259839	8.850161	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1984	5	1446	365.22	356.286171	8.933829	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1984	5	1451	365.42	356.312504	9.107496	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1984	5	1456	365.2	356.338836	8.861164	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1984	5	1461	365.28	356.365168	8.914832	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1985	6	1467	365.35	356.364316	8.985684	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1985	6	1472	365.42	356.358198	9.061802	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1985	6	1477	365.4	356.35208	9.04792	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1985	6	1482	365.51	356.345961	9.164039	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1985	6	1487	365.49	356.339843	9.150157	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1985	6	1492	365.59	356.333725	9.256275	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1985	6	1498	365.53	356.326383	9.203617	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1985	6	1503	365.61	356.320265	9.289735	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1985	6	1508	365.6	356.314147	9.285853	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1985	6	1513	365.64	356.30479	9.33521	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1985	6	1518	365.81	356.28976	9.52024	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1985	6	1521	365.75	356.280742	9.469258	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1985	6	1526	365.69	356.265711	9.424289	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1985	6	1531	365.7	356.250681	9.449319	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1985	6	1536	365.85	356.235651	9.614349	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/14/1985	6	1626	364.94	355.952204	8.987796	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/14/1985	6	1718	362.81	355.677805	7.132195	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1985	6	1725	362.78	355.657275	7.122725	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1985	6	1730	362.73	355.644538	7.085462	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1985	6	1735	362.7	355.632292	7.067708	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1985	6	1740	362.6	355.620047	6.979953	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1985	6	1745	362.6	355.607801	6.992199	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1985	6	1750	362.64	355.595555	7.044445	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1985	6	1755	362.78	355.583309	7.196691	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1985	6	1760	363.02	355.571063	7.448937	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1985	6	1765	363.26	355.558817	7.701183	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1985	6	1771	363.33	355.544122	7.785878	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1985	6	1776	363.39	355.531876	7.858124	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1985	6	1781	363.57	355.519631	8.050369	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1985	6	1786	363.66	355.507385	8.152615	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1985	6	1801	364.5	355.470647	9.029353	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1985	6	1806	364.52	355.458401	9.061599	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1985	6	1811	364.56	355.446156	9.113844	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1985	6	1816	364.56	355.43391	9.12609	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1985	6	1821	364.65	355.421664	9.228336	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1985	6	1826	364.74	355.409418	9.330582	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1986	7	1832	364.63	355.360471	9.269529	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1986	7	1837	364.64	355.305411	9.334589	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1986	7	1842	364.68	355.25035	9.42965	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1986	7	1847	364.75	355.19529	9.55471	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1986	7	1852	364.74	355.140229	9.599771	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/29/1986	7	1855	364.67	355.107193	9.562807	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1986	7	1857	364.58	355.085169	9.494831	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1986	7	1863	365.07	355.019096	10.050904	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1986	7	1868	364.82	354.964035	9.855965	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1986	7	1873	364.82	354.908975	9.911025	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1986	7	1878	364.9	354.852392	10.047608	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1986	7	1883	364.83	354.789328	10.040672	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1986	7	1886	364.78	354.75149	10.02851	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1986	7	1891	364.82	354.688426	10.131574	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1986	7	1896	364.84	354.625362	10.214638	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1986	7	1901	364.85	354.562299	10.287701	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1986	7	1906	364.71	354.499235	10.210765	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1986	7	1911	364.68	354.436171	10.243829	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1986	7	1916	364.65	354.373107	10.276893	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1986	7	1922	364.68	354.297431	10.382569	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1986	7	1927	364.75	354.234367	10.515633	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1986	7	1932	364.73	354.171304	10.558696	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1986	7	1937	364.78	354.108991	10.671009	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/23/1986	7	1939	364.72	354.085138	10.634862	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1986	7	1942	364.78	354.04936	10.73064	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1986	7	1947	364.92	353.98973	10.93027	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1986	7	1952	365	353.9301	11.0699	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1986	7	1957	365.01	353.87047	11.13953	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1986	7	1962	365.05	353.81084	11.23916	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1986	7	1967	364.97	353.751209	11.218791	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1986	7	1972	364.88	353.691579	11.188421	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1986	7	1977	364.79	353.631949	11.158051	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1986	7	1983	364.87	353.560393	11.309607	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1986	7	1988	364.83	353.500763	11.329237	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1986	7	1993	364.8	353.441132	11.358868	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1986	7	1998	364.73	353.381502	11.348498	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1986	7	2003	364.64	353.321872	11.318128	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1986	7	2008	364.58	353.264354	11.315646	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1986	7	2013	364.46	353.211942	11.248058	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1986	7	2018	364.27	353.15953	11.11047	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1986	7	2023	364.07	353.107118	10.962882	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1986	7	2028	363.96	353.054706	10.905294	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1986	7	2033	363.82	353.002294	10.817706	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1986	7	2038	363.62	352.949882	10.670118	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1986	7	2044	363.41	352.886988	10.523012	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1986	7	2049	363.31	352.834576	10.475424	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1986	7	2054	363.17	352.782164	10.387836	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1986	7	2059	363.03	352.729752	10.300248	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1986	7	2064	362.9	352.67734	10.22266	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1986	7	2069	362.88	352.624928	10.255072	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1986	7	2075	362.9	352.562033	10.337967	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1986	7	2080	362.95	352.509621	10.440379	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1986	7	2085	362.86	352.457209	10.402791	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1986	7	2090	362.82	352.404797	10.415203	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1986	7	2095	362.86	352.358498	10.501502	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1986	7	2100	362.75	352.314329	10.435671	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1986	7	2105	362.66	352.270161	10.389839	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1986	7	2110	362.65	352.225992	10.424008	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1986	7	2115	362.65	352.181824	10.468176	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1986	7	2120	362.56	352.137656	10.422344	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1986	7	2125	362.88	352.093487	10.786513	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1986	7	2130	362.92	352.049319	10.870681	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1986	7	2136	363.09	351.996317	11.093683	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1986	7	2141	363.07	351.952148	11.117852	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1986	7	2146	363.07	351.90798	11.16202	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1986	7	2151	363.05	351.863811	11.186189	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1986	7	2156	363.25	351.819643	11.430357	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1986	7	2161	363.73	351.775475	11.954525	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1986	7	2166	363.6	351.731306	11.868694	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1986	7	2171	363.8	351.687138	12.112862	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1986	7	2186	364.35	351.554632	12.795368	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1986	7	2191	364.19	351.510464	12.679536	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1987	8	2197	364.16	351.417147	12.742853	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1987	8	2202	364.15	351.322586	12.827414	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1987	8	2207	364.25	351.228024	13.021976	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1987	8	2212	364.25	351.133462	13.116538	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1987	8	2217	364.27	351.038901	13.231099	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1987	8	2222	364.26	350.944339	13.315661	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1987	8	2228	364.32	350.830865	13.489135	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1987	8	2233	364.29	350.736303	13.553697	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1987	8	2238	364.54	350.641742	13.898258	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1987	8	2243	364.37	350.559381	13.810619	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1987	8	2248	364.48	350.528939	13.951061	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1987	8	2251	364.75	350.510674	14.239326	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1987	8	2256	364.6	350.480233	14.119767	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1987	8	2261	364.54	350.449791	14.090209	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1987	8	2266	364.6	350.419349	14.180651	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1987	8	2271	364.72	350.388908	14.331092	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1987	8	2276	364.65	350.358466	14.291534	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1987	8	2281	364.56	350.328025	14.231975	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1987	8	2287	364.47	350.291495	14.178505	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1987	8	2292	364.52	350.261053	14.258947	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1987	8	2297	364.48	350.230611	14.249389	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1987	8	2302	364.42	350.2044	14.2156	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1987	8	2307	364.28	350.193311	14.086689	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1987	8	2312	364.19	350.182222	14.007778	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1987	8	2317	364.18	350.171132	14.008868	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1987	8	2322	364.16	350.160043	13.999957	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1987	8	2327	364.16	350.148953	14.011047	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1987	8	2332	364.17	350.137864	14.032136	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1987	8	2337	364.14	350.126775	14.013225	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1987	8	2342	364.16	350.115685	14.044315	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1987	8	2348	364.31	350.102378	14.207622	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1987	8	2353	364.53	350.091288	14.438712	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1987	8	2358	364.58	350.080199	14.499801	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1987	8	2363	364.51	350.06911	14.44089	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1987	8	2368	364.4	350.05802	14.34198	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1987	8	2373	364.29	350.048754	14.241246	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1987	8	2378	364.22	350.043896	14.176104	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1987	8	2383	364.14	350.039038	14.100962	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1987	8	2388	364.05	350.03418	14.01582	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1987	8	2398	363.9	350.024464	13.875536	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1987	8	2403	363.83	350.019606	13.810394	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1987	8	2409	363.68	350.013777	13.666223	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1987	8	2414	363.47	350.008919	13.461081	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1987	8	2419	363.3	350.004061	13.295939	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/23/1987	8	2457	362.36	349.967447	12.392553	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1987	8	2460	362.39	349.965839	12.424161	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1987	8	2465	362.33	349.963157	12.366843	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1987	8	2470	362.24	349.960476	12.279524	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1987	8	2475	362.12	349.957795	12.162205	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1987	8	2480	362.05	349.955113	12.094887	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1987	8	2485	362.06	349.952432	12.107568	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1987	8	2490	362.01	349.949751	12.060249	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1987	8	2495	361.98	349.947069	12.032931	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1987	8	2501	361.96	349.943852	12.016148	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1987	8	2506	361.99	349.94117	12.04883	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1987	8	2511	362.08	349.938489	12.141511	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1987	8	2516	361.97	349.935808	12.034192	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1987	8	2521	362.15	349.933126	12.216874	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1987	8	2526	362.18	349.930445	12.249555	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1987	8	2531	362.16	349.927764	12.232236	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1987	8	2536	362.24	349.925082	12.314918	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1987	8	2541	362.25	349.922401	12.327599	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1987	8	2546	362.35	349.91972	12.43028	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1987	8	2551	362.49	349.917038	12.572962	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1987	8	2556	363	349.914357	13.085643	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1988	9	2562	363.3	349.912977	13.387023	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1988	9	2567	363.46	349.912591	13.547409	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1988	9	2572	363.6	349.912206	13.687794	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1988	9	2577	363.73	349.911821	13.818179	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1988	9	2582	363.69	349.911436	13.778564	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1988	9	2587	363.76	349.911051	13.848949	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1988	9	2593	363.69	349.910589	13.779411	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1988	9	2598	363.78	349.910204	13.869796	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1988	9	2603	363.8	349.909819	13.890181	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1988	9	2608	363.84	349.917529	13.922471	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1988	9	2613	363.82	349.959687	13.860313	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1988	9	2617	363.89	349.993413	13.896587	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1988	9	2622	363.98	350.035571	13.944429	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1988	9	2627	364.09	350.077729	14.012271	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1988	9	2632	363.92	350.119887	13.800113	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1988	9	2637	364.03	350.162045	13.867955	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1988	9	2642	364.1	350.204203	13.895797	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1988	9	2647	364.11	350.246361	13.863639	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1988	9	2653	364.14	350.296951	13.843049	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1988	9	2658	364.04	350.339109	13.700891	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1988	9	2663	363.96	350.381267	13.578733	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1988	9	2668	363.92	350.427093	13.492907	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1988	9	2673	363.85	350.478016	13.371984	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1988	9	2678	363.8	350.528938	13.271062	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1988	9	2683	363.7	350.57986	13.12014	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1988	9	2688	363.7	350.630782	13.069218	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1988	9	2693	363.64	350.681705	12.958295	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1988	9	2698	363.62	350.732627	12.887373	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1988	9	2703	363.61	350.783549	12.826451	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1988	9	2708	363.59	350.834471	12.755529	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1988	9	2714	363.61	350.895578	12.714422	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1988	9	2719	363.55	350.9465	12.6035	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1988	9	2724	363.34	350.997423	12.342577	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1988	9	2729	363.27	351.048345	12.221655	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1988	9	2734	363.19	351.099267	12.090733	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1988	9	2739	363.14	351.14863	11.99137	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1988	9	2744	362.96	351.196386	11.763614	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1988	9	2749	362.83	351.244142	11.585858	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1988	9	2754	362.78	351.291898	11.488102	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1988	9	2759	362.72	351.339655	11.380345	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1988	9	2764	362.55	351.387411	11.162589	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1988	9	2769	362.31	351.435167	10.874833	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1988	9	2775	362.16	351.492475	10.667525	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1988	9	2780	362.07	351.540231	10.529769	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1988	9	2785	361.92	351.587987	10.332013	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1988	9	2790	361.84	351.635744	10.204256	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1988	9	2795	361.7	351.6835	10.0165	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1988	9	2800	361.57	351.731256	9.838744	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1988	9	2806	361.46	351.788564	9.671436	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1988	9	2811	361.3	351.83632	9.46368	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1988	9	2816	361.18	351.884077	9.295923	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1988	9	2821	361.06	351.931833	9.128167	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1988	9	2826	360.98	351.972786	9.007214	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1988	9	2831	360.93	352.013316	8.916684	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1988	9	2836	360.87	352.053846	8.816154	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1988	9	2841	360.86	352.094376	8.765624	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1988	9	2846	360.81	352.134906	8.675094	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1988	9	2851	360.78	352.175436	8.604564	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1988	9	2856	360.71	352.215967	8.494033	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1988	9	2861	360.64	352.256497	8.383503	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1988	9	2867	360.77	352.305133	8.464867	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1988	9	2872	360.66	352.345663	8.314337	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1988	9	2877	360.7	352.386193	8.313807	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1988	9	2882	360.67	352.426723	8.243277	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1988	9	2887	360.73	352.467253	8.262747	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1988	9	2892	360.59	352.507783	8.082217	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1988	9	2897	360.52	352.548313	7.971687	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1988	9	2902	360.85	352.588844	8.261156	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1988	9	2907	360.95	352.629374	8.320626	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1988	9	2912	360.95	352.669904	8.280096	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1988	9	2917	360.9	352.710434	8.189566	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1988	9	2922	360.94	352.750964	8.189036	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1989	10	2938	361.01	352.697093	8.312907	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1989	10	2953	361.13	352.635116	8.494884	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1989	10	2969	361.29	352.569008	8.720992	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1989	10	2982	361.61	352.568663	9.041337	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1989	10	2997	361.63	352.58823	9.04177	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1989	10	3012	361.65	352.607797	9.042203	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1989	10	3028	361.73	352.628668	9.101332	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1989	10	3043	361.76	352.66909	9.09091	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1989	10	3058	363.2	352.715173	10.484827	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1989	10	3073	363.34	352.761256	10.578744	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/13/1989	10	3086	363.72	352.801195	10.918805	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1989	10	3089	363.77	352.810412	10.959588	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1989	10	3094	363.73	352.825773	10.904227	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1989	10	3099	363.67	352.841134	10.828866	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1989	10	3104	363.69	352.856736	10.833264	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1989	10	3109	363.7	352.872707	10.827293	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1989	10	3114	363.66	352.888678	10.771322	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1989	10	3119	363.69	352.904649	10.785351	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1989	10	3124	363.63	352.920621	10.709379	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1989	10	3129	363.46	352.936592	10.523408	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1989	10	3134	363.42	352.952563	10.467437	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1989	10	3140	363.38	352.971729	10.408271	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1989	10	3145	363.3	352.9877	10.3123	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1989	10	3150	363.21	353.003671	10.206329	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1989	10	3155	363.15	353.019642	10.130358	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1989	10	3160	363.04	353.035614	10.004386	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1989	10	3165	362.88	353.051585	9.828415	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1989	10	3171	362.73	353.07075	9.65925	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/12/1989	10	3177	362.49	353.089916	9.400084	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1989	10	3181	362.59	353.102693	9.487307	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1989	10	3186	362.42	353.118664	9.301336	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1989	10	3191	362.26	353.133021	9.126979	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1989	10	3196	362.2	353.146966	9.053034	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1989	10	3201	362.16	353.160911	8.999089	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1989	10	3206	362.09	353.174857	8.915143	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1989	10	3211	362.07	353.188802	8.881198	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1989	10	3216	361.9	353.202748	8.697252	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1989	10	3221	361.88	353.216693	8.663307	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1989	10	3226	361.86	353.230639	8.629361	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1989	10	3232	361.85	353.247373	8.602627	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/7/1989	10	3233	361.69	353.250162	8.439838	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1989	10	3237	361.91	353.261319	8.648681	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1989	10	3242	361.35	353.275264	8.074736	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1989	10	3247	361.65	353.28921	8.36079	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1989	10	3252	361.73	353.303155	8.426845	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1989	10	3257	361.6	353.317101	8.282899	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1989	10	3262	361.68	353.331046	8.348954	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1989	10	3267	361.68	353.344992	8.335008	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/15/1989	10	3271	361.35	353.356148	7.993852	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1989	10	3272	361.38	353.358937	8.021063	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1989	10	3277	361.27	353.372883	7.897117	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1989	10	3282	361.21	353.386828	7.823172	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1989	10	3287	361.25	353.400774	7.849226	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1990	11	3293	361.15	353.232681	7.917319	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1990	11	3298	361.15	353.015592	8.134408	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1990	11	3303	361.15	352.798504	8.351496	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1990	11	3308	361.45	352.581415	8.868585	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1990	11	3313	361.55	352.364327	9.185673	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1990	11	3318	361.71	352.147238	9.562762	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1990	11	3324	361.73	351.886732	9.843268	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1990	11	3329	361.95	351.669643	10.280357	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1990	11	3334	362.14	351.452554	10.687446	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1990	11	3339	362.08	351.25487	10.82513	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1990	11	3344	362.26	351.139759	11.120241	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1990	11	3347	362.35	351.070692	11.279308	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/2/1990	11	3348	362.39	351.047669	11.342331	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1990	11	3352	362.55	350.95558	11.59442	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1990	11	3357	362.85	350.840468	12.009532	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1990	11	3362	363.15	350.725356	12.424644	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1990	11	3367	363.14	350.610244	12.529756	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1990	11	3372	363.1	350.495133	12.604867	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1990	11	3377	363.32	350.380021	12.939979	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1990	11	3383	363.32	350.241887	13.078113	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1990	11	3388	363.27	350.126775	13.143225	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1990	11	3393	363.29	350.011663	13.278337	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1990	11	3398	363.23	349.906874	13.323126	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1990	11	3403	363.3	349.838984	13.461016	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1990	11	3408	363.46	349.771094	13.688906	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1990	11	3413	363.7	349.703204	13.996796	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1990	11	3418	363.6	349.635314	13.964686	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1990	11	3423	363.59	349.567424	14.022576	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1990	11	3428	363.49	349.499535	13.990465	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1990	11	3433	363.43	349.431645	13.998355	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1990	11	3438	363.35	349.363755	13.986245	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1990	11	3444	363.34	349.282287	14.057713	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/7/1990	11	3445	363.3	349.268709	14.031291	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1990	11	3449	363.22	349.214397	14.005603	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1990	11	3454	363.17	349.146507	14.023493	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1990	11	3459	363.03	349.078617	13.951383	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1990	11	3464	362.86	349.010727	13.849273	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1990	11	3469	362.69	348.949135	13.740865	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1990	11	3474	362.54	348.902768	13.637232	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1990	11	3479	362.34	348.8564	13.4836	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1990	11	3484	362.26	348.810033	13.449967	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1990	11	3489	362.12	348.763666	13.356334	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1990	11	3494	362	348.717299	13.282701	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1990	11	3499	361.9	348.670931	13.229069	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1990	11	3505	361.85	348.615291	13.234709	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1990	11	3510	361.79	348.568923	13.221077	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1990	11	3515	361.57	348.522556	13.047444	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1990	11	3520	361.42	348.476189	12.943811	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1990	11	3525	361.28	348.429822	12.850178	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1990	11	3530	361.17	348.383454	12.786546	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1990	11	3536	361.06	348.327814	12.732186	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1990	11	3541	361.12	348.281446	12.838554	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1990	11	3546	361.03	348.235079	12.794921	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/18/1990	11	3548	361.12	348.216532	12.903468	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1990	11	3551	361.12	348.188712	12.931288	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1990	11	3556	361.1	348.151342	12.948658	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1990	11	3561	361.07	348.11711	12.95289	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1990	11	3566	361.01	348.082879	12.927121	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1990	11	3571	361.09	348.048647	13.041353	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1990	11	3576	361.14	348.014415	13.125585	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1990	11	3581	361.11	347.980183	13.129817	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1990	11	3586	361.18	347.945951	13.234049	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1990	11	3591	361.19	347.911719	13.278281	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1990	11	3597	361.26	347.870641	13.389359	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/7/1990	11	3598	361.27	347.863794	13.406206	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1990	11	3602	361.49	347.836409	13.653591	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1990	11	3607	361.77	347.802177	13.967823	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1990	11	3612	361.95	347.767945	14.182055	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1990	11	3617	362.12	347.733713	14.386287	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1990	11	3622	362.08	347.699481	14.380519	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/4/1990	11	3625	362.15	347.678942	14.471058	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1990	11	3627	362.16	347.665249	14.494751	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1990	11	3632	362.15	347.631017	14.518983	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1990	11	3637	362.23	347.596786	14.633214	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1990	11	3642	362.29	347.562554	14.727446	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1990	11	3647	362.29	347.528322	14.761678	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1990	11	3652	362.51	347.49409	15.01591	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1991	12	3668	363.14	345.42135	17.71865	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1991	12	3673	363.24	344.685977	18.554023	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1991	12	3678	363.18	343.950603	19.229397	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1991	12	3683	363.27	343.215229	20.054771	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1991	12	3689	363.34	342.33278	21.00722	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1991	12	3694	363.37	341.597407	21.772593	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/12/1991	12	3695	363.32	341.450332	21.869668	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1991	12	3699	363.37	340.862033	22.507967	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1991	12	3704	363.49	340.192117	23.297883	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1991	12	3709	363.49	339.800744	23.689256	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1991	12	3712	363.6	339.56592	24.03408	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1991	12	3717	363.72	339.174548	24.545452	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1991	12	3722	363.47	338.783175	24.686825	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1991	12	3727	363.6	338.391803	25.208197	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1991	12	3732	363.57	338.00043	25.56957	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1991	12	3737	363.56	337.609058	25.950942	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1991	12	3742	363.62	337.217685	26.402315	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1991	12	3748	363.51	336.748038	26.761962	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1991	12	3753	363.54	336.356665	27.183335	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1991	12	3758	363.74	335.965293	27.774707	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1991	12	3763	363.72	335.613903	28.106097	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1991	12	3768	363.66	335.40543	28.25457	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1991	12	3773	363.64	335.196958	28.443042	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1991	12	3778	363.72	334.988485	28.731515	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/7/1991	12	3779	363.65	334.946791	28.703209	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1991	12	3783	363.66	334.780013	28.879987	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1991	12	3788	363.83	334.57154	29.25846	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1991	12	3793	363.78	334.363068	29.416932	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1991	12	3798	363.71	334.154596	29.555404	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1991	12	3803	363.71	333.946123	29.763877	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1991	12	3809	363.67	333.695956	29.974044	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1991	12	3814	363.62	333.487484	30.132516	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1991	12	3819	363.57	333.279011	30.290989	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1991	12	3824	363.56	333.070539	30.489461	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1991	12	3829	363.5	332.862066	30.637934	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1991	12	3834	363.41	332.674841	30.735159	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1991	12	3839	363.36	332.538976	30.821024	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1991	12	3844	363.25	332.40311	30.84689	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1991	12	3849	363.13	332.267245	30.862755	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1991	12	3854	363.02	332.13138	30.88862	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1991	12	3859	362.85	331.995515	30.854485	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1991	12	3864	362.83	331.85965	30.97035	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1991	12	3870	362.69	331.696611	30.993389	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1991	12	3875	362.5	331.560746	30.939254	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/13/1991	12	3877	362.38	331.5064	30.8736	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1991	12	3880	362.48	331.424881	31.055119	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1991	12	3885	362.52	331.289016	31.230984	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1991	12	3890	362.45	331.153151	31.296849	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1991	12	3895	362.45	331.017286	31.432714	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1991	12	3901	362.49	330.854247	31.635753	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1991	12	3906	362.47	330.718382	31.751618	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1991	12	3911	362.47	330.582517	31.887483	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1991	12	3916	362.47	330.446652	32.023348	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1991	12	3921	362.47	330.338254	32.131746	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1991	12	3926	362.48	330.239435	32.240565	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1991	12	3931	362.55	330.140615	32.409385	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1991	12	3936	362.45	330.041795	32.408205	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1991	12	3941	362.43	329.942976	32.487024	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1991	12	3946	362.33	329.844156	32.485844	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1991	12	3951	362.35	329.745336	32.604664	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1991	12	3956	362.44	329.646517	32.793483	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1991	12	3962	362.67	329.527933	33.142067	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1991	12	3967	362.74	329.429113	33.310887	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1991	12	3972	362.84	329.330294	33.509706	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1991	12	3977	363.03	329.231474	33.798526	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1991	12	3982	363	329.132654	33.867346	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1991	12	3987	363.14	329.033835	34.106165	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1991	12	3992	363.11	328.935015	34.174985	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1991	12	3997	363.21	328.836195	34.373805	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/14/1991	12	4000	363.36	328.776903	34.583097	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1991	12	4002	363.24	328.737375	34.502625	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1991	12	4007	363.44	328.638556	34.801444	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1991	12	4012	363.8	328.539736	35.260264	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1991	12	4017	363.65	328.440916	35.209084	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1992	13	4023	363.73	328.169029	35.560971	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1992	13	4028	363.72	327.878579	35.841421	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1992	13	4033	363.75	327.588129	36.161871	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1992	13	4038	363.81	327.297679	36.512321	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1992	13	4043	364	327.007229	36.992771	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1992	13	4048	364.11	326.71678	37.39322	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1992	13	4054	364.12	326.36824	37.75176	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1992	13	4059	364.15	326.07779	38.07221	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1992	13	4064	364.1	325.78734	38.31266	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1992	13	4069	363.97	325.523918	38.446082	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1992	13	4074	364.26	325.375509	38.884491	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1992	13	4078	364.24	325.256782	38.983218	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1992	13	4083	364.1	325.108373	38.991627	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1992	13	4088	364.13	324.959964	39.170036	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1992	13	4093	364.11	324.811555	39.298445	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1992	13	4098	364.1	324.663145	39.436855	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/24/1992	13	4101	363.93	324.5741	39.3559	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1992	13	4103	363.95	324.514736	39.435264	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1992	13	4108	363.97	324.366327	39.603673	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1992	13	4114	363.97	324.188236	39.781764	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/11/1992	13	4119	363.92	324.039827	39.880173	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1992	13	4124	363.85	323.891418	39.958582	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/21/1992	13	4129	363.95	323.772272	40.177228	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/26/1992	13	4134	363.8	323.693761	40.106239	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1992	13	4139	363.78	323.61525	40.16475	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/6/1992	13	4144	363.7	323.536739	40.163261	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/11/1992	13	4149	363.65	323.458228	40.191772	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1992	13	4154	363.66	323.379717	40.280283	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/21/1992	13	4159	363.87	323.301206	40.568794	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/26/1992	13	4164	363.83	323.222695	40.607305	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1992	13	4169	363.81	323.144184	40.665816	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/6/1992	13	4175	364.01	323.049971	40.960029	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/11/1992	13	4180	363.85	322.97146	40.87854	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1992	13	4185	363.73	322.892948	40.837052	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/21/1992	13	4190	363.58	322.814437	40.765563	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/26/1992	13	4195	363.64	322.735926	40.904074	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1992	13	4200	363.57	322.672162	40.897838	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/6/1992	13	4205	363.4	322.623587	40.776413	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/11/1992	13	4210	363.3	322.575013	40.724987	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1992	13	4215	363.17	322.526439	40.643561	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/21/1992	13	4220	363.01	322.477864	40.532136	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/26/1992	13	4225	362.85	322.42929	40.42071	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1992	13	4230	362.73	322.380716	40.349284	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/6/1992	13	4236	362.55	322.322426	40.227574	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/11/1992	13	4241	362.34	322.273852	40.066148	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1992	13	4246	362.23	322.225278	40.004722	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/21/1992	13	4251	362.1	322.176703	39.923297	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/26/1992	13	4256	361.96	322.128129	39.831871	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1992	13	4261	361.84	322.079555	39.760445	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/6/1992	13	4267	361.75	322.021265	39.728735	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/11/1992	13	4272	361.65	321.972691	39.677309	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1992	13	4277	361.55	321.924117	39.625883	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/21/1992	13	4282	361.45	321.875542	39.574458	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/26/1992	13	4287	361.21	321.841656	39.368344	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1992	13	4292	361.05	321.808684	39.241316	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/6/1992	13	4297	361.01	321.775712	39.234288	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/11/1992	13	4302	360.68	321.74274	38.93726	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1992	13	4307	360.61	321.709768	38.900232	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1992	13	4312	360.45	321.676796	38.773204	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1992	13	4317	360.38	321.643825	38.736175	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1992	13	4322	360.4	321.610853	38.789147	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1992	13	4328	360.3	321.571286	38.728714	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1992	13	4333	360.29	321.538314	38.751686	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/12/1992	13	4334	360.34	321.53172	38.80828	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1992	13	4338	360.23	321.505342	38.724658	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1992	13	4343	360.45	321.47237	38.97763	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1992	13	4348	360.41	321.439398	38.970602	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1992	13	4353	360.33	321.406426	38.923574	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1992	13	4358	360.26	321.373454	38.886546	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1992	13	4363	360.4	321.340482	39.059518	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1992	13	4368	360.64	321.30751	39.33249	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1992	13	4373	361.08	321.274538	39.805462	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1992	13	4378	361.31	321.241567	40.068433	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1992	13	4383	361.47	321.208595	40.261405	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1993	14	4389	361.58	321.284287	40.295713	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1993	14	4394	361.79	321.366573	40.423427	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1993	14	4399	362.03	321.44886	40.58114	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1993	14	4404	362.18	321.531146	40.648854	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1993	14	4409	362.25	321.613433	40.636567	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1993	14	4414	362.32	321.695719	40.624281	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1993	14	4420	362.4	321.794463	40.605537	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1993	14	4425	362.68	321.87675	40.80325	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1993	14	4430	362.76	321.959036	40.800964	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1993	14	4435	362.79	322.009747	40.780253	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/26/1993	14	4440	362.84	322.00514	40.83486	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/1/1993	14	4443	362.8	322.002375	40.797625	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1993	14	4448	362.85	321.997767	40.852233	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1993	14	4453	362.81	321.99316	40.81684	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1993	14	4458	362.95	321.988552	40.961448	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1993	14	4463	362.93	321.983945	40.946055	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1993	14	4468	363.15	321.979337	41.170663	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1993	14	4473	363.15	321.97473	41.17527	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1993	14	4479	363.15	321.9692	41.1808	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/21/1993	14	4677	360.91	320.394718	40.515282	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/26/1993	14	4682	361.1	320.352264	40.747736	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1993	14	4687	361.15	320.309809	40.840191	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/6/1993	14	4693	361.23	320.258864	40.971136	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/1993	14	4698	361.16	320.21641	40.94359	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1993	14	4703	360.52	320.173956	40.346044	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1993	14	4708	360.06	320.131502	39.928498	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/26/1993	14	4713	360.1	320.089047	40.010953	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1993	14	4718	360.45	320.046593	40.403407	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/6/1993	14	4723	360.6	320.004139	40.595861	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/11/1993	14	4728	360.67	319.961684	40.708316	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1993	14	4733	360.75	319.91923	40.83077	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/21/1993	14	4738	360.74	319.876776	40.863224	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/26/1993	14	4743	360.79	319.834322	40.955678	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1993	14	4748	360.92	319.791867	41.128133	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/6/1994	15	4754	359.85	319.724442	40.125558	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/11/1994	15	4759	360.45	319.661387	40.788613	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1994	15	4764	360.7	319.598333	41.101667	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/21/1994	15	4769	360.78	319.535278	41.244722	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/26/1994	15	4774	360.97	319.472224	41.497776	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1994	15	4779	360.96	319.409169	41.550831	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/6/1994	15	4785	361.05	319.333504	41.716496	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/11/1994	15	4790	360.96	319.270449	41.689551	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1994	15	4795	361.01	319.207395	41.802605	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/21/1994	15	4800	361.22	319.146073	42.073927	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/6/1994	15	4813	362.4	319.005812	43.394188	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/11/1994	15	4818	362.39	318.951866	43.438134	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/16/1994	15	4823	362.55	318.897919	43.652081	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/21/1994	15	4828	362.63	318.843973	43.786027	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/24/1994	15	4831	362.7	318.811605	43.888395	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/26/1994	15	4833	362.65	318.790027	43.859973	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	3/31/1994	15	4838	362.52	318.73608	43.78392	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/6/1994	15	4844	362.72	318.671345	44.048655	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1994	15	4854	362.65	318.563452	44.086548	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/1/1994	15	4869	362.6	318.411519	44.188481	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1994	15	4884	362.84	318.263075	44.576925	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/31/1994	15	4899	362.97	318.114631	44.855369	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	6/16/1994	15	4915	362.73	317.956291	44.773709	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/1/1994	15	4930	362.67	317.809427	44.860573	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/16/1994	15	4945	362.32	317.677177	44.642823	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1994	15	4960	361.75	317.544928	44.205072	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1994	15	4976	361.4	317.403862	43.996138	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1994	15	4991	361.23	317.271612	43.958388	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1994	15	5007	360.81	317.130546	43.679454	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1994	15	5022	360.8	317.008292	43.791708	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1994	15	5037	360.8	316.893262	43.906738	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1994	15	5052	360.77	316.778232	43.991768	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1994	15	5068	360.92	316.655533	44.264467	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1994	15	5083	360.85	316.540503	44.309497	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1994	15	5098	361.19	316.425472	44.764528	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1994	15	5113	361.59	316.310442	45.279558	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1995	16	5129	361.72	315.47828	46.24172	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/16/1995	16	5219	362.75	311.634205	51.115795	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	5/16/1995	16	5249	361.58	311.006116	50.573884	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	7/31/1995	16	5325	361.43	309.771842	51.658158	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/16/1995	16	5341	361.58	309.57832	52.00168	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	8/31/1995	16	5356	361.34	309.396893	51.943107	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/16/1995	16	5372	360.9	309.20337	51.69663	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/1/1995	16	5387	361.43	309.055905	52.374095	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/16/1995	16	5402	359.24	308.932986	50.307014	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/31/1995	16	5417	358.93	308.810066	50.119934	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/14/1995	16	5431	360	308.695341	51.304659	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/16/1995	16	5433	359.77	308.678952	51.091048	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/1/1995	16	5448	360.11	308.556032	51.553968	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/16/1995	16	5463	360.24	308.433113	51.806887	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/31/1995	16	5478	360.38	308.310193	52.069807	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/16/1996	17	5494	360.39	307.960553	52.429447	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	1/31/1996	17	5509	358.25	307.603499	50.646501	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/16/1996	17	5525	359.48	307.222641	52.257359	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	4/15/1996	17	5584	359.65	305.867728	53.782272	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/5/1996	17	5788	356.2	302.179309	54.020691	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/21/1997	18	6169	358.2	300.410704	57.789296	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/20/1998	19	6533	360.51	304.908468	55.601532	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/13/1999	20	6891	358.25	308.547556	49.702444	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/14/2000	21	7197	357.28	309.498404	47.781596	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/20/2001	22	7629	358.5	311.592257	46.907743	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/22/2002	23	7996	359.11	307.394196	51.715804	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/11/2003	24	8350	357.99	307.791784	50.198216	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/2/2004	25	8707	358.05	308.789747	49.260253	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	12/10/2005	26	9110	355.34	308.83571	46.50429	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/20/2006	27	9424	355.35	305.457919	49.892081	71	61	414

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/30/2007	28	9830	357.23	306.579897	50.650103	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	2/12/2009	30	10270	356.34	305.169667	51.170333	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/18/2009	30	10549	357.29	305.114146	52.175854	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	11/18/2010	31	10914	354.48	302.702709	51.777291	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	9/28/2011	32	11228	352.22	299.157392	53.062608	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/25/2012	33	11621	354.9	300.213439	54.686561	71	61	414
3937601	6045717.62	19769227.4	86	7	1588605	616457	9	10/30/2013	34	11991	352.63	304.465761	48.164239	71	61	414
3937602	6043606.823	19770019.53	86	6	1588602	616454	9	1/31/1981	2	31	372.6	357.745919	14.854081		83	390
3937602	6043606.823	19770019.53	86	6	1588602	616454	9	3/11/1981	2	70	373.2	357.674538	15.525462		83	390
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	1/1/1981	2	1	376.67	371.629285	5.040715	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	3/31/1981	2	90	376.14	371.403234	4.736766	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	10/3/1981	2	276	375.78	370.974414	4.805586	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	3/11/1982	3	435	376.15	370.623638	5.526362	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/9/1983	4	1043	376.42	370.182472	6.237528	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/6/1984	5	1406	376.1	373.000814	3.099186	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/8/1985	6	1773	375.85	372.132193	3.717807	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/11/1986	7	2141	375.88	367.374948	8.505052	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	1/11/1989	10	2933	374.8	370.599634	4.200366	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/7/1990	11	3598	372.6	368.74429	3.85571	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/7/1991	12	3963	374.42	351.04666	23.37334	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/12/1992	13	4334	371.2	344.708009	26.491991	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	3/24/1994	15	4831	373.6	339.493743	34.106257	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	12/17/1994	15	5099	373.36	336.586108	36.773892	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/5/1996	17	5788	370.5	324.64683	45.85317	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/21/1997	18	6169	372.59	324.551851	48.038149	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/20/1998	19	6533	367.92	328.001002	39.918998	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/13/1999	20	6891	368.9	332.734826	36.165174	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	9/14/2000	21	7197	361.65	333.349041	28.300959	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/20/2001	22	7629	365	334.406554	30.593446	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/22/2002	23	7996	368.21	330.979748	37.230252	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/11/2003	24	8350	368.22	331.647848	36.572152	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/2/2004	25	8707	366.4	332.401595	33.998405	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	12/10/2005	26	9110	361.84	332.617537	29.222463	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	10/20/2006	27	9424	347.5	329.647931	17.852069	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/30/2007	28	9830	346.71	329.724845	16.985155	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	2/12/2009	30	10270	360.96	328.334326	32.625674	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/18/2009	30	10549	358.53	327.557404	30.972596	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	11/18/2010	31	10914	352.41	325.709064	26.700936	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	9/28/2011	32	11228	344.49	322.558677	21.931323	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	10/25/2012	33	11621	353.85	323.410956	30.439044	24	24	470
3937801	6033800.978	19760279.16	87	4	1588954	616763	9	10/30/2013	34	11991	355.86	328.138647	27.721353	24	24	470
3937802	6034774.581	19759601.51	87	4	1588954	616763	9	1/1/1981	2	1	394	369.419616	24.580384		-16	454
3937802	6034774.581	19759601.51	87	4	1588954	616763	9	4/29/1981	2	119	375.2	369.125368	6.074632		-16	454
3937807	6032991	19750526.6	88	3	1589295	617049	9	3/11/1982	3	435	401.5	377.133689	24.366311		-146	469
3937907	6040848.057	19759089.37	88	5	1589297	617051	9	1/30/1981	2	30	369.8	358.423084	11.376916		-13	417
3937907	6040848.057	19759089.37	88	5	1589297	617051	9	3/11/1982	3	435	369.9	357.621678	12.278322		-13	417
3937908	6040274.988	19755423.39	88	4	1589296	617050	9	3/11/1982	3	435	383	364.832243	18.167757		-58	462
3937910	6046947.483	19752499.69	89	5	1524893	566631	8	1/31/1981	2	31	375.2	353.429013	21.770987		200	470
3937910	6046947.483	19752499.69	89	5	1524893	566631	8	3/11/1982	3	435	372.2	352.673036	19.526964		200	470
3938102	6051868.935	19781840.51	85	9	1588185	616133	9	2/7/1981	2	38	373.3	360.604687	12.695313		10	430

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3938102	6051868.935	19781840.51	85	9	1588185	616133	9	3/10/1982	3	434	372.9	359.91622	12.98378		10	430
3938201	6073037.3	19795308.31	85	13	1523137	565517	8	1/1/1981	2	1	365	362.137595	2.862405		183	443
3938201	6073037.3	19795308.31	85	13	1523137	565517	8	2/8/1981	2	39	369.4	362.042126	7.357874		183	443
3938201	6073037.3	19795308.31	85	13	1523137	565517	8	3/10/1982	3	434	369.6	361.160682	8.439318		183	443
3938203	6067622.549	19783982.57	86	12	1523664	565789	8	3/10/1982	3	434	356.8	355.962217	0.837783		162	435
3938207	6064420.269	19791880.07	84	12	1587843	615859	9	9/16/1982	3	624	358.1	359.418606	-1.318606		-43	407
3938208	6069362.706	19791436.97	85	13	1588189	616137	9	11/20/1982	3	689	370.8	358.681119	12.118881	65	55	435
3938209	6066784.388	19793580.01	84	12	1587843	615859	9	8/26/1987	8	2429	282	318.577451	-36.577451	-108	-113	422
3938401	6060293.424	19772898.25	87	9	1524117	566075	8	2/7/1981	2	38	352	351.433778	0.566222		207	391
3938401	6060293.424	19772898.25	87	9	1524117	566075	8	3/10/1982	3	434	353.7	350.721875	2.978125		207	391
3938402	6050609.359	19764878.8	88	7	1589299	617053	9	1/30/1981	2	30	368.4	353.956624	14.443376		2	389
3938403	6051147.901	19769557.13	87	7	1588957	616766	9	3/11/1982	3	435	365.5	354.208183	11.291817		77	385
3938501	6064820.197	19772035.06	88	10	1524556	566357	8	2/8/1981	2	39	326.4	345.145726	-18.745726		165	350
3938501	6064820.197	19772035.06	88	10	1524556	566357	8	3/10/1982	3	434	328.8	344.46506	-15.66506		165	350
3938503	6070952.952	19769706.15	89	11	1445750	522375	7	2/8/1981	2	39	410.7	371.962727	38.737273		348	450
3938601	6084769.3	19773007.32	89	13	1445752	522377	7	4/25/1981	2	115	462.1	346.589674	115.51033		458	483
3938601	6084769.3	19773007.32	89	13	1445752	522377	7	10/3/1981	2	276	462.6	346.250575	116.34943		458	483
3938701	6062047.515	19764344.35	89	9	1589562	617275	9	2/18/1981	2	49	348.7	335.3599	13.3401		-92	368
3938701	6062047.515	19764344.35	89	9	1589562	617275	9	3/10/1982	3	434	349.8	334.758215	15.041785		-92	368
3938703	6061461.272	19755915.41	90	8	1525273	566958	8	10/22/1981	2	295	365.5	346.430276	19.069724		99	375
3938704	6060091.344	19755464.86	90	8	1525273	566958	8	2/7/1981	2	38	354.3	344.252703	10.047297		84	360
3938706	6056903.488	19749787.11	91	7	1525774	567394	8	3/11/1982	3	435	368.9	348.200533	20.699467		-110	390
3938801	6070504.892	19762396.6	90	10	1446233	522667	7	1/1/1981	2	1	412	351.0048	60.9952		392	452
3938801	6070504.892	19762396.6	90	10	1446233	522667	7	2/7/1981	2	38	413	350.891264	62.108736		392	452
3938801	6070504.892	19762396.6	90	10	1446233	522667	7	3/10/1982	3	434	412.7	350.436692	62.263308		392	452
3938802	6066440.483	19759728.05	90	9	1525276	566961	8	1/1/1981	2	1	335	333.892239	1.107761	-70	-70	390
3938802	6066440.483	19759728.05	90	9	1525276	566961	8	3/10/1982	3	434	344.2	333.272591	10.927409	-70	-70	390
3938804	6067347.416	19753273.78	91	9	1446815	522890	7	3/26/1983	4	815	335	345.014724	-10.014724	-5	-5	355
3938805	6067072.331	19758938.59	90	9	1446226	522660	7	7/4/2003	24	8220	268	326.098278	-58.098278	-62	-62	398
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	1/1/1981	2	1	379.915	345.925073	33.989927	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	4/25/1981	2	115	380.35	345.562843	34.787157	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	10/4/1981	2	277	380.08	345.33736	34.74264	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	3/10/1982	3	434	380.92	345.083896	35.836104	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/10/1982	3	679	379.88	344.777241	35.102759	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/9/1983	4	1043	380.45	345.131094	35.318906	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/6/1984	5	1406	377.65	356.563786	21.086214	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/9/1985	6	1774	379.6	345.862013	33.737987	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/11/1986	7	2141	380.3	341.8775	38.4225	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/20/1987	8	2515	379.2	342.768939	36.431061	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	1/10/1989	10	2932	380.05	347.636709	32.413291	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/7/1989	10	3233	378.41	348.439282	29.970718	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/7/1990	11	3598	379.2	346.223682	32.976318	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/7/1991	12	3963	378.21	344.846583	33.363417	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/12/1992	13	4334	378.8	347.684199	31.115801	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	3/24/1994	15	4831	379.2	342.951285	36.248715	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	12/17/1994	15	5099	379.84	341.670197	38.169803	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/14/1995	16	5431	379.55	345.329609	34.220391	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/5/1996	17	5788	377.8	341.759895	36.040105	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/21/1997	18	6169	377.5	344.466876	33.033124	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/19/1998	19	6532	378.7	344.565615	34.134385	176	176	441

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/13/1999	20	6891	399.5	347.46385	52.03615	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	9/14/2000	21	7197	399.15	346.168207	52.981793	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/20/2001	22	7629	399.81	344.490605	55.319395	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/22/2002	23	7996	400	344.17294	55.82706	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/11/2003	24	8350	400.44	344.815944	55.624056	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/2/2004	25	8707	401.1	344.420629	56.679371	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	10/20/2006	27	9424	399.3	343.087952	56.212048	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	2/12/2009	30	10270	400.08	341.289388	58.790612	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/18/2009	30	10549	398.28	339.665159	58.614841	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	11/18/2010	31	10914	396.53	340.133382	56.396618	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	9/28/2011	32	11228	397.52	338.717838	58.802162	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	10/26/2012	33	11622	397.33	339.388952	57.941048	176	176	441
3938902	6078591.944	19763781.67	90	12	1446237	522671	7	10/30/2013	34	11991	396.78	343.318658	53.461342	176	176	441
3938903	6078664.732	19764189.43	90	12	1446237	522671	7	10/21/1981	2	294	391.8	359.40866	32.39134		196	442
3939301	6122168.414	19787058.5	91	21	1446837	522912	7	4/21/1981	2	111	353.08	325.472136	27.607864		-95	440
3939301	6122168.414	19787058.5	91	21	1446837	522912	7	11/21/1981	2	325	352.9	313.472142	39.427858		-95	440
3939301	6122168.414	19787058.5	91	21	1446837	522912	7	4/17/1984	5	1203	354.52	314.297505	40.222495		-95	440
3939405	6100954.955	19767681.53	92	16	1447435	523214	7	4/30/1981	2	120	363.8	337.579012	26.220988	-110	-110	540
3939406	6090290.895	19765797.88	91	14	1525787	567407	8	3/3/1981	2	62	318.89	322.432946	-3.542946	-310	-339	425
3939703	6096910.455	19754371.5	94	14	1448774	523821	7	4/30/1981	2	120	451.9	361.430359	90.469641	420	160	500
3939705	6092368.089	19763234.57	92	14	1526258	567792	8	1/3/2002	23	7673	265.6	287.030913	-21.430913	-329	-349	431
3939903	6121948.776	19756147.11	96	18	1449816	524337	7	2/3/1984	5	1129	241	270.444435	-29.444435	-456	-504	436
3940205	6142795.952	19785757.84	93	24	1448148	523577	7	1/1/1981	2	1	340	307.92361	32.07639	-481	-486	385
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	3/11/1981	2	70	280.88	275.96183	4.91817	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	3/20/1982	3	444	282.28	275.851259	6.428741	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/19/1982	3	688	283.35	275.81247	7.53753	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/18/1983	4	1052	282.82	275.897411	6.922589	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/8/1984	5	1408	282.8	276.378171	6.421829	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/8/1985	6	1773	281.55	276.003985	5.546015	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/20/1986	7	2150	283.85	275.257726	8.592274	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	2/10/1988	9	2597	282.3	275.857987	6.442013	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	2/1/1989	10	2954	282.85	276.477728	6.372272	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	12/7/1989	10	3263	281.15	276.584328	4.565672	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	12/19/1990	11	3640	281.75	276.169143	5.580857	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/16/1991	12	3972	284.97	276.010171	8.959829	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	2/17/1993	14	4431	287	276.280015	10.719985	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	2/26/1994	15	4805	287.3	275.670505	11.629495	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	12/16/1994	15	5098	286.4	275.484408	10.915592	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/8/1995	16	5425	285.49	276.270291	9.219709	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/20/1996	17	5803	282.65	275.534676	7.115324	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/20/1997	18	6168	282.84	276.140975	6.699025	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/20/1998	19	6533	279.56	276.091055	3.468945	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/17/1999	20	6895	278.96	276.703294	2.256706	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/17/2000	21	7261	277.45	276.336571	1.113429	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/6/2001	22	7615	278.4	276.041964	2.358036	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/6/2002	23	7980	278.85	276.007586	2.842414	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	9/27/2003	24	8305	279.87	276.204307	3.665693	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/13/2004	25	8718	280.67	276.140023	4.529977	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	3/8/2006	27	9198	279.46	276.039488	3.420512	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/8/2006	27	9443	279.13	275.919944	3.210056	138	138	330

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	2/5/2008	29	9897	278.92	275.824092	3.095908	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/19/2009	30	10550	279.24	275.534013	3.705987	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	11/20/2010	31	10916	276.35	275.574263	0.775737	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	9/28/2011	32	11228	277.7	275.366439	2.333561	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	10/24/2012	33	11620	276.66	275.571535	1.088465	138	138	330
3940303	6157803.339	19794096.23	93	27	1137694	415133	4	10/31/2013	34	11992	277.39	276.148757	1.241243	138	138	330
3940304	6158674.165	19793924.99	93	28	1448152	523581	7	4/29/1981	2	119	255.5	285.46788	-29.96788	-297	-297	279
3940304	6158674.165	19793924.99	93	28	1448152	523581	7	3/20/1982	3	444	254.8	285.153839	-30.353839	-297	-297	279
3940304	6158674.165	19793924.99	93	28	1448152	523581	7	11/19/1982	3	688	252.65	284.908183	-32.258183	-297	-297	279
3940304	6158674.165	19793924.99	93	28	1448152	523581	7	11/18/1983	4	1052	252.38	285.104356	-32.724356	-297	-297	279
3940401	6132276.919	19777482.93	93	22	1448146	523575	7	4/30/1981	2	120	350.1	315.232852	34.867148	-320	-320	400
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	4/29/1981	2	119	247.25	284.602695	-37.352695	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	3/20/1982	3	444	247.52	284.333521	-36.813521	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/19/1982	3	688	246.2	284.110854	-37.910854	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/18/1983	4	1052	246.39	284.289986	-37.899986	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/10/1984	5	1410	244.77	285.566634	-40.796634	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	2/10/1988	9	2597	245.7	282.61722	-36.91722	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	2/1/1989	10	2954	245.1	284.953464	-39.853464	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	12/7/1989	10	3263	244.7	285.324403	-40.624403	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	12/19/1990	11	3640	244.65	283.184338	-38.534338	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	12/3/1991	12	3989	245.68	283.084052	-37.404052	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	2/17/1993	14	4431	246.7	284.725425	-38.025425	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	2/26/1994	15	4805	245.2	282.233152	-37.033152	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	12/16/1994	15	5098	246.5	280.781565	-34.281565	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/8/1995	16	5425	247.6	282.950215	-35.350215	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/20/1996	17	5803	244.25	280.685888	-36.435888	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/20/1997	18	6168	246.66	282.405057	-35.745057	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/20/1998	19	6533	248.51	282.498546	-33.988546	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/16/1999	20	6894	248	283.785868	-35.785868	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	9/13/2000	21	7196	247.35	283.468385	-36.118385	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/17/2000	21	7261	248.15	283.440925	-35.290925	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/6/2001	22	7615	248.65	282.424713	-33.774713	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/6/2002	23	7980	249.35	281.958715	-32.608715	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	9/27/2003	24	8305	248.79	281.835744	-33.045744	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/13/2004	25	8718	249.88	281.301142	-31.421142	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	3/8/2006	27	9198	244.11	280.730422	-36.620422	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/8/2006	27	9443	243.47	279.659165	-36.189165	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	2/5/2008	29	9897	243.65	279.453519	-35.803519	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/14/2008	29	10180	244.98	278.8862	-33.9062	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/19/2009	30	10550	245.6	278.007065	-32.407065	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/20/2010	31	10916	244.45	277.338011	-32.888011	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	9/28/2011	32	11228	244.29	275.269984	-30.979984	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	10/24/2012	33	11620	244.4	275.783474	-31.383474	-81	-81	319
3940601	6153802.912	19777841.61	95	25	1355482	480931	6	11/2/2013	34	11994	243.95	279.274121	-35.324121	-81	-81	319
3940604	6153234.246	19776808	95	25	1449292	524073	7	12/2/1992	13	4354	284	284.937092	-0.937092	-377	-377	335
3940604	6153234.246	19776808	95	25	1449292	524073	7	7/9/1997	18	6034	239.3	269.18126	-29.88126	-377	-377	335
3940605	6153237.868	19776706.73	95	25	1449292	524073	7	4/30/1995	16	5233	279	280.506253	-1.506253	-366	-376	334
3940702	6139394.517	19764561.77	96	22	1356121	481161	6	6/12/1984	5	1259	355	323.331203	31.668797	19	-455	425
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	4/29/1981	2	119	303	275.695911	27.304089	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	3/20/1982	3	444	301.49	275.442674	26.047326	-410	-410	410

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/18/1983	4	1052	299.83	275.378417	24.451583	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/10/1984	5	1410	300.55	276.628161	23.921839	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/8/1985	6	1773	298.51	275.749652	22.760348	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/20/1986	7	2150	298.12	273.062583	25.057417	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	2/10/1988	9	2597	297.85	273.510631	24.339369	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	1/31/1989	10	2953	296.63	276.004028	20.625972	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	12/7/1989	10	3263	296.6	276.387243	20.212757	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	12/19/1990	11	3640	291.7	273.722769	17.977231	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	12/3/1991	12	3989	293.8	273.946714	19.853286	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	2/17/1993	14	4431	284.8	275.662869	9.137131	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	2/26/1994	15	4805	283.4	272.968743	10.431257	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	12/16/1994	15	5098	294.2	271.391308	22.808692	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/8/1995	16	5425	292.8	273.418354	19.381646	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/20/1996	17	5803	290.12	271.185742	18.934258	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/20/1997	18	6168	289.89	272.773961	17.116039	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/20/1998	19	6533	288.95	272.85585	16.09415	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/16/1999	20	6894	287.3	274.289164	13.010836	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	9/13/2000	21	7196	284.45	274.10058	10.34942	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/17/2000	21	7261	285.8	274.085291	11.714709	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/6/2002	23	7980	284.5	272.521085	11.978915	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	9/27/2003	24	8305	283.68	272.196237	11.483763	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/13/2004	25	8718	284.29	271.453632	12.836368	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	3/8/2006	27	9198	280.14	270.823867	9.316133	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/7/2006	27	9442	279.3	269.569493	9.730507	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	2/5/2008	29	9897	279.4	269.431061	9.968939	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/19/2009	30	10550	279.52	268.078621	11.441379	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/20/2010	31	10916	277.05	267.321352	9.728648	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	9/28/2011	32	11228	276.62	265.202744	11.417256	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	10/24/2012	33	11620	275.72	265.616413	10.103587	-410	-410	410
3940906	6163035.623	19764088.83	98	26	1450979	524933	7	11/2/2013	34	11994	274.46	269.040538	5.419462	-410	-410	410
3945102	6022719.088	19746954.94	88	1	1589293	617047	9	3/11/1982	3	435	386.3	387.293268	-0.993268		32	452
3945201	6030266.173	19743752.53	89	2	1589555	617268	9	1/31/1981	2	31	394.8	364.245695	30.554305		132	432
3945201	6030266.173	19743752.53	89	2	1589555	617268	9	3/11/1982	3	435	394.85	363.338717	31.511283		132	432
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	1/1/1981	2	1	378.165	370.667786	7.497214	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	4/29/1981	2	119	377.97	370.338332	7.631668	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	10/3/1981	2	276	376.74	369.970188	6.769812	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	3/11/1982	3	435	377.63	369.604686	8.025314	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/11/1982	3	680	376.57	369.028422	7.541578	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/9/1983	4	1043	379.72	369.188211	10.531789	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/6/1984	5	1406	379.44	372.181405	7.258595	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/8/1985	6	1773	377.22	371.164272	6.055728	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/11/1986	7	2141	380.28	366.11637	14.16363	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/20/1987	8	2515	380.46	364.822213	15.637787	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	1/11/1989	10	2933	379.55	370.194013	9.355987	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/7/1989	10	3233	378.62	371.635618	6.984382	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/7/1990	11	3598	378.4	367.069891	11.330109	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/7/1991	12	3963	378.95	352.360485	26.589515	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/12/1992	13	4334	378.55	347.211104	31.338896	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	3/24/1994	15	4831	377.4	341.554327	35.845673	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	12/17/1994	15	5099	376.83	338.601821	38.228179	-70	-70	454

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/14/1995	16	5431	376.35	334.930326	41.419674	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/5/1996	17	5788	375	327.919102	47.080898	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/21/1997	18	6169	375.73	329.678932	46.051068	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/20/1998	19	6533	374.94	332.756385	42.183615	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/13/1999	20	6891	372.9	337.709665	35.190335	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	9/14/2000	21	7197	369.56	338.149045	31.410955	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/20/2001	22	7629	370.1	338.806551	31.293449	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/22/2002	23	7996	369.72	335.792406	33.927594	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/11/2003	24	8350	369.13	336.43137	32.69863	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/2/2004	25	8707	368.2	337.053757	31.146243	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	12/10/2005	26	9110	366.67	337.322868	29.347132	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	10/20/2006	27	9424	365.95	334.630615	31.319385	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/30/2007	28	9830	366.13	334.325421	31.804579	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/18/2009	30	10549	364.34	331.928932	32.411068	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	11/18/2010	31	10914	365.83	330.397262	35.432738	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	9/28/2011	32	11228	357.65	327.542188	30.107812	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	10/26/2012	33	11622	359.6	328.208708	31.391292	-70	-70	454
3945202	6029649.658	19746771.85	89	2	1589555	617268	9	10/30/2013	34	11991	358.25	332.929172	25.320828	-70	-70	454
3945207	6035670.206	19742609.85	90	2	1589807	617483	9	2/20/1981	2	51	372.6	353.683797	18.916203		30	440
3945207	6035670.206	19742609.85	90	2	1589807	617483	9	3/11/1982	3	435	372.4	352.947932	19.452068		30	440
3945208	6030934.659	19733743.63	91	1	1590094	617721	9	1/31/1981	2	31	371.3	346.848099	24.451901		91	411
3945208	6030934.659	19733743.63	91	1	1590094	617721	9	3/11/1982	3	435	372.8	346.1643	26.6357		91	411
3945209	6030169.159	19733313.77	91	1	1590094	617721	9	4/29/1981	2	119	367.8	353.013388	14.786612		-97	423
3946101	6054040.121	19744728.37	91	6	1525773	567393	8	3/11/1982	3	435	361.3	344.915475	16.384525		-78	422
3946102	6052174.18	19738284.17	92	5	1526246	567780	8	1/1/1981	2	1	365	333.979256	31.020744		-20	375
3946102	6052174.18	19738284.17	92	5	1526246	567780	8	9/1/1981	2	244	366.4	333.669751	32.730249		-20	375
3946102	6052174.18	19738284.17	92	5	1526246	567780	8	3/11/1982	3	435	366.9	333.478551	33.421449		-20	375
3946104	6056531.642	19740048.34	92	6	1526247	567781	8	2/20/1981	2	51	352.3	338.161937	14.138063		258	358
3946105	6061132.372	19739693.96	93	6	1448095	523524	7	10/21/1981	2	294	360.8	347.535534	13.264466		272	372
3946106	6062582.469	19740349.98	93	7	1526788	568184	8	10/23/1981	2	296	356.78	335.867647	20.912353	-260	-260	410
3946107	6052174.18	19738284.17	92	5	1526246	567780	8	4/28/1987	8	2309	351	341.076585	9.923415		-260	370
3946301	6079577.873	19739599.61	94	9	1448769	523816	7	5/1/1981	2	121	422.5	357.782707	64.717293		408	445
3946405	6063559.388	19731770.11	94	6	1448745	523792	7	4/29/1981	2	119	368.9	333.649304	35.250696	-300	-305	400
3946405	6063559.388	19731770.11	94	6	1448745	523792	7	9/18/2013	34	11949	321.8	333.197819	-11.397819	-300	-305	400
3946405	6063559.388	19731770.11	94	6	1448745	523792	7	10/22/2013	34	11983	323.3	333.212805	-9.912805	-300	-305	400
3946405	6063559.388	19731770.11	94	6	1448745	523792	7	11/28/2013	34	12020	326.04	333.227907	-7.187907	-300	-305	400
3946405	6063559.388	19731770.11	94	6	1448745	523792	7	12/13/2013	34	12035	320.5	333.23403	-12.73403	-300	-305	400
3946405	6063559.388	19731770.11	94	6	1448745	523792	7	12/19/2013	34	12041	326.67	333.236479	-6.566479	-300	-305	400
3946601	6084813.925	19720424.39	98	9	1357401	481535	6	5/1/1981	2	121	396.8	337.165286	59.634714		390	425
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	1/1/1981	2	1	325.36	318.574979	6.785021	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	4/29/1981	2	119	327.51	318.493158	9.016842	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	3/25/1982	3	449	327.13	318.370036	8.759964	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/11/1982	3	680	324.58	318.349805	6.230195	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/9/1983	4	1043	323.19	319.870154	3.319846	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/16/1984	5	1416	322.69	318.786396	3.903604	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/7/1985	6	1772	322.25	318.446575	3.803425	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	12/10/1986	7	2170	319.6	317.566181	2.033819	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/19/1987	8	2514	317.18	318.124775	-0.944775	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/7/1990	11	3598	312.15	318.64033	-6.49033	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/16/1991	12	3972	309.49	318.453556	-8.963556	-265	-265	395

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/12/1992	13	4334	307.95	318.940153	-10.990153	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	3/23/1994	15	4830	308.4	317.874129	-9.474129	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	12/17/1994	15	5099	306.08	317.792297	-11.712297	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/15/1995	16	5432	302	318.707795	-16.707795	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	2/20/1997	18	5895	302.37	318.232363	-15.862363	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/4/1997	18	6152	298.25	318.320425	-20.070425	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/18/1998	19	6531	297.74	318.378807	-20.638807	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/10/1999	20	6888	295.93	318.948768	-23.018768	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	9/15/2000	21	7198	293.27	318.651237	-25.381237	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/16/2001	22	7625	293	318.285012	-25.285012	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/12/2002	23	7986	292.18	318.535762	-26.355762	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	10/9/2003	24	8317	291.83	318.265911	-26.435911	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	2/25/2005	26	8822	288.67	318.383669	-29.713669	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	12/15/2005	26	9115	287.4	318.404277	-31.004277	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	12/15/2006	27	9480	287.25	318.052444	-30.802444	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/6/2007	28	9806	286.7	318.216348	-31.516348	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	2/26/2009	30	10284	287.01	317.404032	-30.394032	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	10/6/2009	30	10506	285.35	317.271596	-31.921596	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	1/28/2010	31	10620	284.84	317.348236	-32.508236	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	1/13/2011	32	10970	284.62	317.461227	-32.841227	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	2/26/2011	32	11014	279.5	317.342352	-37.842352	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	1/19/2012	33	11341	284.8	317.299157	-32.499157	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	4/24/2012	33	11437	285.6	317.46407	-31.86407	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	6/27/2012	33	11501	284.7	317.480863	-32.780863	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	11/17/2012	33	11644	286.3	317.497326	-31.197326	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	1/31/2013	34	11719	286.8	317.996942	-31.196942	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	3/1/2013	34	11748	286.2	318.343316	-32.143316	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	3/26/2013	34	11773	285.8	318.422573	-32.622573	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	4/20/2013	34	11798	284.3	318.499095	-34.199095	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	6/19/2013	34	11858	285	318.539104	-33.539104	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	7/12/2013	34	11881	283.3	318.548628	-35.248628	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	9/14/2013	34	11945	284.2	318.563671	-34.363671	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	10/18/2013	34	11979	287.5	318.568718	-31.068718	-265	-265	395
3946702	6059353.254	19709645.77	98	3	1450920	524874	7	12/18/2013	34	12040	287.6	318.57633	-30.97633	-265	-265	395
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	4/29/1981	2	119	312.35	300.055029	12.294971		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	3/25/1982	3	449	311.16	299.838676	11.321324		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	11/20/1982	3	689	310.16	299.708182	10.451818		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	11/18/1983	4	1052	309.29	299.883576	9.406424		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	11/15/1984	5	1415	307.25	300.868889	6.381111		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	11/8/1985	6	1773	305.98	300.098297	5.881703		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	2/1/1989	10	2954	299.24	300.864523	-1.624523		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	12/6/1989	10	3262	301.2	301.165722	0.034278		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	12/19/1990	11	3640	300.9	299.461433	1.438567		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	11/16/1991	12	3972	294.66	299.07801	-4.41801		-257	409
3946901	6087442.512	19706733.87	101	8	1453298	525761	7	12/16/1994	15	5098	296.4	297.447463	-1.047463		-257	409
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	4/29/1981	2	119	297.57	297.78466	-0.21466	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/20/1982	3	689	295.9	297.436229	-1.536229	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/18/1983	4	1052	295.23	297.606496	-2.376496	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/15/1984	5	1415	292.35	298.599321	-6.249321	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	2/10/1988	9	2597	281.6	296.871383	-15.271383	-150	-150	420

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	2/1/1989	10	2954	285.53	298.542783	-13.012783	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	12/6/1989	10	3262	284.35	298.857945	-14.507945	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	12/19/1990	11	3640	283.2	297.058976	-13.858976	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/16/1991	12	3972	281.95	296.688071	-14.738071	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	2/17/1993	14	4431	282.6	297.673739	-15.073739	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	2/27/1994	15	4806	281.9	295.894147	-13.994147	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	12/16/1994	15	5098	281.85	295.024563	-13.174563	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/8/1995	16	5425	278.28	296.731756	-18.451756	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/21/1996	17	5804	278.1	295.03845	-16.93845	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/20/1997	18	6168	277.69	296.115432	-18.425432	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/20/1998	19	6533	275.62	296.248286	-20.628286	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/16/1999	20	6894	273.85	297.561759	-23.711759	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	9/13/2000	21	7196	270	297.193482	-27.193482	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/17/2000	21	7261	272.68	297.177235	-24.497235	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/6/2001	22	7615	271.6	296.300507	-24.700507	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/5/2002	23	7979	263.2	296.317511	-33.117511	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	9/27/2003	24	8305	268.46	295.938895	-27.478895	-150	-150	420
3946902	6090243.65	19705916.83	101	8	1453298	525761	7	11/9/2004	25	8714	267.25	295.614436	-28.364436	-150	-150	420
3947102	6101012.285	19743265.24	96	13	1449811	524332	7	5/1/1981	2	121	354.3	324.795803	29.504197	-173	-173	452
3947304	6121984.169	19750170.23	97	17	1450397	524639	7	9/28/1983	4	1001	317	307.019398	9.980602	-540	-540	495
3947403	6101902.26	19729921.3	98	12	1450965	524919	7	7/10/1984	5	1287	342	323.616698	18.383302	-85	-85	475
3947503	6103469.17	19734736.86	97	13	1450393	524635	7	4/22/2004	25	8513	278	290.304061	-12.304061	-751	-751	475
3947602	6118316.075	19728663.62	100	15	1452621	525531	7	4/29/1981	2	119	416.88	291.766859	125.11314		-162	513
3947602	6118316.075	19728663.62	100	15	1452621	525531	7	11/18/1983	4	1052	417.02	291.44898	125.57102		-162	513
3947602	6118316.075	19728663.62	100	15	1452621	525531	7	11/15/1984	5	1415	416.85	292.91989	123.93011		-162	513
3947602	6118316.075	19728663.62	100	15	1452621	525531	7	12/3/1986	7	2163	417.15	327.468441	89.681559		-162	513
3947605	6117132.52	19735309.65	99	15	1143645	417119	4	9/15/1993	14	4641	471.71	418.059937	53.650063		448	492
3947905	6124507.856	19707601.72	104	14	1362071	482780	6	2/4/1982	3	400	325	292.518596	32.481404	50	50	585
3947906	6122426.906	19707630.59	104	14	1149173	419028	4	6/1/1995	16	5265	287	340.084777	-53.084777	89	89	480
3947907	6122343.801	19707526.3	104	14	1149173	419028	4	6/1/1995	16	5265	285	339.484133	-54.484133	90	90	480
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	4/29/1981	2	119	314.38	287.528859	26.851141		40	420
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	3/19/1982	3	443	313.96	287.234449	26.725551		40	420
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	11/20/1982	3	689	312.37	286.984039	25.385961		40	420
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	11/18/1983	4	1052	312.58	287.189484	25.390516		40	420
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	11/15/1984	5	1415	312.4	288.686141	23.713859		40	420
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	11/8/1985	6	1773	310.7	287.680885	23.019115		40	420
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	2/10/1988	9	2597	312.15	285.403227	26.746773		40	420
3948101	6138252.888	19750335.86	98	20	1357412	481546	6	2/1/1989	10	2954	313	288.087699	24.912301		40	420
3948401	6130230.013	19722392.22	102	16	1360681	482446	6	5/1/1981	2	121	348.1	301.847502	46.252498	106	106	546
3948701	6136829.815	19709654.77	105	16	1362538	482915	6	5/4/1995	16	5237	290	275.94484	14.05516	25	25	560
3948701	6136829.815	19709654.77	105	16	1362538	482915	6	7/9/2002	23	7860	255.5	265.853941	-10.353941	25	25	560
3948702	6136912.874	19709759.11	105	16	1362538	482915	6	5/4/1995	16	5237	293	281.45961	11.54039	30	30	560
3954305	6088603.811	19700592.58	102	7	1453894	525980	7	5/23/1981	2	143	288	293.152065	-5.152065	-272	-272	408
3954306	6089097.407	19696252.8	103	7	1454590	526231	7	10/3/1991	12	3928	295	293.210279	1.789721	-279	-279	415
3954405	6061347.672	19683369.57	102	1	1453879	525965	7	1/1/1981	2	1	294.03	298.404874	-4.374874		-145	430
3954405	6061347.672	19683369.57	102	1	1453879	525965	7	4/30/1981	2	120	293.56	296.830892	-3.270892		-145	430
3954405	6061347.672	19683369.57	102	1	1453879	525965	7	11/11/1982	3	680	292.87	298.077872	-5.207872		-145	430
3954405	6061347.672	19683369.57	102	1	1453879	525965	7	11/9/1983	4	1043	295.3	298.228747	-2.928747		-145	430
3954405	6061347.672	19683369.57	102	1	1453879	525965	7	11/16/1984	5	1416	309.76	302.211001	7.548999		-145	430
3954405	6061347.672	19683369.57	102	1	1453879	525965	7	11/8/1985	6	1773	302.22	298.28513	3.93487		-145	430

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	7/21/1995	16	5315	301.5	282.5351	18.9649	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/8/1995	16	5425	301.28	282.700876	18.579124	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/21/1996	17	5804	299.55	281.553171	17.996829	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/16/1999	20	6894	297.7	283.171462	14.528538	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	9/13/2000	21	7196	297.96	283.136153	14.823847	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/17/2000	21	7261	297.4	283.140945	14.259055	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/6/2001	22	7615	297.9	282.542453	15.357547	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/5/2002	23	7979	298.5	282.462839	16.037161	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	9/27/2003	24	8305	298.8	282.114425	16.685575	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	3/7/2006	27	9197	296.81	281.334425	15.475575	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/7/2006	27	9442	297.2	280.75379	16.44621	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	2/5/2008	29	9897	297.45	280.666944	16.783056	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/15/2008	29	10181	296.65	280.317809	16.332191	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	11/20/2009	30	10551	295.85	279.963351	15.886649	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	12/9/2010	31	10935	293.85	279.734796	14.115204	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	9/28/2011	32	11228	292.6	278.878048	13.721952	-6	-6	350
3954602	6087611.844	19681207.58	105	5	1455629	526630	7	10/24/2012	33	11620	291.49	279.010422	12.479578	-6	-6	350
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1981	2	31	309.22	289.095594	20.124406	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/6/1981	2	37	309.33	289.088334	20.241666	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1981	2	42	309.62	289.082284	20.537716	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1981	2	47	309.81	289.076233	20.733767	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/21/1981	2	52	309.63	289.071436	20.558564	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/26/1981	2	57	309.6	289.068832	20.531168	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1981	2	65	309.67	289.064667	20.605333	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1981	2	70	309.74	289.062063	20.677937	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1981	2	75	309.93	289.05946	20.87054	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1981	2	80	309.99	289.056856	20.933144	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1981	2	85	309.86	289.054253	20.805747	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1981	2	90	310.04	289.051649	20.988351	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1981	2	96	309.92	289.048525	20.871475	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1981	2	101	309.94	289.045922	20.894078	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1981	2	106	309.82	289.043318	20.776682	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1981	2	111	309.88	289.041181	20.838819	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1981	2	116	309.93	289.039873	20.890127	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/29/1981	2	119	309.9	289.039089	20.860911	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1981	2	121	309.92	289.038565	20.881435	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1981	2	126	309.98	289.037258	20.942742	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1981	2	131	310	289.03595	20.96405	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1981	2	136	310.08	289.034643	21.045357	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1981	2	141	310.28	289.033335	21.246665	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1981	2	146	310.21	289.032027	21.177973	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1981	2	151	310.14	289.03072	21.10928	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1981	2	157	310.12	289.029151	21.090849	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/11/1981	2	162	310.57	289.027843	21.542157	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1981	2	167	310.65	289.026536	21.623464	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/21/1981	2	172	311.17	289.025228	22.144772	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1981	2	177	310.78	289.02392	21.75608	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1981	2	182	310.45	289.022887	21.427113	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/6/1981	2	187	310.32	289.022274	21.297726	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/11/1981	2	192	310.39	289.02166	21.36834	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1981	2	197	310.26	289.021047	21.238953	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/21/1981	2	202	310.08	289.020434	21.059566	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/26/1981	2	207	309.8	289.01982	20.78018	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/31/1981	2	212	309.63	289.019207	20.610793	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/6/1981	2	218	309.45	289.018471	20.431529	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/11/1981	2	223	309.28	289.017858	20.262142	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1981	2	228	309.17	289.017244	20.152756	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/21/1981	2	233	309.08	289.016631	20.063369	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/26/1981	2	238	308.92	289.016018	19.903982	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1981	2	243	308.85	289.015404	19.834596	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/6/1981	2	249	308.98	289.014668	19.965332	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/11/1981	2	254	308.98	289.014055	19.965945	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1981	2	259	309.1	289.013442	20.086558	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/21/1981	2	264	309.08	289.012828	20.067172	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1981	2	269	309.04	289.012522	20.027478	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1981	2	274	308.98	289.012295	19.967705	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1981	2	279	308.94	289.012067	19.927933	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1981	2	284	309.09	289.011839	20.078161	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1981	2	289	309.23	289.011611	20.218389	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1981	2	294	309.96	289.011384	20.948616	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1981	2	299	310	289.011156	20.988844	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1981	2	304	309.87	289.010928	20.859072	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1981	2	310	309.94	289.010655	20.929345	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1981	2	315	309.95	289.010427	20.939573	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1981	2	320	310.04	289.010199	21.029801	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1981	2	325	309.77	289.009972	20.760028	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1981	2	330	309.87	289.009744	20.860256	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1981	2	335	309.85	289.009516	20.840484	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1981	2	340	309.67	289.009289	20.660711	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/11/1981	2	345	309.72	289.009061	20.710939	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1981	2	350	309.7	289.008833	20.691167	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/21/1981	2	355	309.7	289.008605	20.691395	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1982	3	407	309.75	288.966655	20.783345	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1982	3	412	309.81	288.96148	20.84852	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1982	3	450	309.97	288.940176	21.029824	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1982	3	455	310.15	288.937656	21.212344	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1982	3	461	310.25	288.934632	21.315368	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1982	3	466	310.02	288.932112	21.087888	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1982	3	471	310	288.929591	21.070409	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1982	3	476	309.9	288.927269	20.972731	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1982	3	481	310.3	288.925655	21.374345	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1982	3	486	310.33	288.924041	21.405959	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1982	3	491	310.15	288.922428	21.227572	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1982	3	496	310.03	288.920814	21.109186	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1982	3	501	310.16	288.9192	21.2408	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/21/1982	3	537	309.28	288.907579	20.372421	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1982	3	542	309.22	288.905965	20.314035	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1982	3	547	309.12	288.904473	20.215527	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/6/1982	3	552	308.98	288.903275	20.076725	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/11/1982	3	557	308.85	288.902077	19.947923	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1982	3	562	308.83	288.900879	19.929121	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/21/1982	3	567	308.74	288.89968	19.84032	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/26/1982	3	572	308.6	288.898482	19.701518	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/26/1982	3	603	307.79	288.891054	18.898946	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1982	3	608	307.7	288.889855	18.810145	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/6/1982	3	614	307.6	288.888418	18.711582	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/11/1982	3	619	307.57	288.887219	18.682781	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1982	3	624	307.44	288.886021	18.553979	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1982	3	634	307.53	288.883824	18.646176	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1982	3	639	307.48	288.882894	18.597106	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1982	3	644	307.43	288.881965	18.548035	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1982	3	649	307.53	288.881035	18.648965	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1982	3	654	307.6	288.880105	18.719895	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1982	3	659	307.56	288.879175	18.680825	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1982	3	664	307.5	288.878246	18.621754	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1982	3	669	307.61	288.877316	18.732684	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1982	3	675	307.6	288.8762	18.7238	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1982	3	680	307.65	288.87527	18.77473	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1982	3	685	307.63	288.874341	18.755659	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1982	3	690	307.78	288.873411	18.906589	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1982	3	695	307.67	288.872481	18.797519	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1982	3	700	307.99	288.871551	19.118449	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1982	3	705	308.45	288.870622	19.579378	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/11/1982	3	710	308.76	288.869692	19.890308	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1982	3	715	308.94	288.868762	20.071238	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/21/1982	3	720	308.9	288.867832	20.032168	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/26/1982	3	725	308.94	288.866903	20.073097	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/31/1982	3	730	309.1	288.865973	20.234027	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/6/1983	4	736	309.17	288.869187	20.300813	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/11/1983	4	741	309.29	288.873669	20.416331	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1983	4	746	309.12	288.878151	20.241849	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/21/1983	4	751	309.27	288.882633	20.387367	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/26/1983	4	756	309.4	288.887116	20.512884	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1983	4	761	309.38	288.891598	20.488402	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/6/1983	4	767	309.46	288.896977	20.563023	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1983	4	772	309.46	288.901459	20.558541	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1983	4	777	309.47	288.905941	20.564059	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/21/1983	4	782	309.98	288.909925	21.070075	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/26/1983	4	787	310.34	288.911786	21.428214	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1983	4	795	310.2	288.914763	21.285237	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1983	4	800	310.22	288.916624	21.303376	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1983	4	805	310.1	288.918486	21.181514	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1983	4	810	310.07	288.920347	21.149653	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1983	4	815	310.28	288.922208	21.357792	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1983	4	820	310.38	288.924069	21.455931	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1983	4	826	310.21	288.926302	21.283698	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1983	4	831	309.93	288.928163	21.001837	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1983	4	836	309.78	288.930024	20.849976	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1983	4	841	309.82	288.93172	20.88828	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1983	4	846	309.65	288.932825	20.717175	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1983	4	851	309.57	288.93393	20.63607	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1983	4	856	309.45	288.935035	20.514965	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1983	4	861	309.34	288.936139	20.403861	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1983	4	866	309.82	288.937244	20.882756	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1983	4	871	310.01	288.938349	21.071651	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1983	4	876	310.62	288.939454	21.680546	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1983	4	881	310.28	288.940559	21.339441	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1983	4	887	310.06	288.941885	21.118115	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/11/1983	4	892	309.9	288.94299	20.95701	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1983	4	897	309.7	288.944094	20.755906	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/21/1983	4	902	309.58	288.945199	20.634801	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1983	4	907	309.49	288.946304	20.543696	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1983	4	912	309.45	288.947322	20.502678	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/6/1983	4	917	309.27	288.948128	20.321872	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/11/1983	4	922	309.09	288.948934	20.141066	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1983	4	927	309	288.94974	20.05026	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1983	4	1004	308.89	288.961833	19.928167	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1983	4	1009	308.86	288.962454	19.897546	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1983	4	1014	308.82	288.963075	19.856925	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1983	4	1019	308.79	288.963696	19.826304	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1983	4	1024	308.84	288.964318	19.875682	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1983	4	1029	308.79	288.964939	19.825061	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1983	4	1034	308.76	288.96556	19.79444	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1983	4	1040	308.84	288.966305	19.873695	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1983	4	1045	308.9	288.966927	19.933073	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1983	4	1050	308.94	288.967548	19.972452	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1983	4	1055	309.01	288.968169	20.041831	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1983	4	1060	309.05	288.96879	20.08121	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1983	4	1065	309.07	288.969411	20.100589	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1983	4	1070	309.14	288.970033	20.169967	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/11/1983	4	1075	309.22	288.970654	20.249346	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1983	4	1080	309.08	288.971275	20.108725	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/21/1983	4	1085	309.15	288.971896	20.178104	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/26/1983	4	1090	309	288.972517	20.027483	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/31/1983	4	1095	308.97	288.973139	19.996861	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/6/1984	5	1101	309.15	288.992163	20.157837	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/11/1984	5	1106	309.18	289.015632	20.164368	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1984	5	1111	309.2	289.039102	20.160898	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/21/1984	5	1116	309.15	289.062571	20.087429	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/26/1984	5	1121	309.3	289.086041	20.213959	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1984	5	1126	309.32	289.10951	20.21049	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/6/1984	5	1132	309.28	289.137674	20.142326	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1984	5	1137	309.33	289.161143	20.168857	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1984	5	1142	309.43	289.184613	20.245387	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/21/1984	5	1147	309.37	289.205624	20.164376	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/26/1984	5	1152	309.46	289.216175	20.243825	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1984	5	1161	309.44	289.235167	20.204833	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1984	5	1166	309.51	289.245717	20.264283	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1984	5	1171	309.81	289.256268	20.553732	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1984	5	1176	309.9	289.266819	20.633181	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1984	5	1324	307.56	289.454789	18.105211	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/21/1984	5	1329	307.55	289.458873	18.091127	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/26/1984	5	1334	307.75	289.462957	18.287043	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1984	5	1339	307.84	289.467041	18.372959	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/6/1984	5	1345	307.16	289.471942	17.688058	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/11/1984	5	1350	307.2	289.476026	17.723974	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1984	5	1355	307.1	289.480111	17.619889	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/21/1984	5	1360	307.06	289.484195	17.575805	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1984	5	1365	307	289.487054	17.512946	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1984	5	1370	306.9	289.489837	17.410163	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1984	5	1375	306.95	289.492621	17.457379	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1984	5	1380	307	289.495404	17.504596	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1984	5	1385	307.3	289.498187	17.801813	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1984	5	1390	307.54	289.50097	18.03903	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1984	5	1395	308.38	289.503753	18.876247	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1984	5	1400	308.97	289.506537	19.463463	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1984	5	1406	309	289.509876	19.490124	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1984	5	1411	309	289.51266	19.48734	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1984	5	1416	308.92	289.515443	19.404557	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1984	5	1421	308.78	289.518226	19.261774	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1984	5	1426	308.94	289.521009	19.418991	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1984	5	1431	309	289.523792	19.476208	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1984	5	1436	309	289.526576	19.473424	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/11/1984	5	1441	309.09	289.529359	19.560641	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1984	5	1446	309.13	289.532142	19.597858	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/21/1984	5	1451	309.82	289.534925	20.285075	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/26/1984	5	1456	309.77	289.537708	20.232292	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/31/1984	5	1461	309.58	289.540492	20.039508	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/6/1985	6	1467	309.8	289.520505	20.279495	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/11/1985	6	1472	309.8	289.499962	20.300038	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1985	6	1477	309.64	289.479419	20.160581	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/21/1985	6	1482	309.82	289.458876	20.361124	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/26/1985	6	1487	309.82	289.438333	20.381667	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1985	6	1492	309.8	289.41779	20.38221	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/6/1985	6	1498	309.76	289.393139	20.366861	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1985	6	1503	309.82	289.372596	20.447404	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1985	6	1508	309.82	289.352053	20.467947	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/21/1985	6	1513	309.81	289.335833	20.474167	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1985	6	1536	310	289.296055	20.703945	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1985	6	1541	310.31	289.287408	21.022592	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1985	6	1546	310.43	289.27876	21.15124	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1985	6	1551	310.47	289.270113	21.199887	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1985	6	1557	310.35	289.259736	21.090264	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1985	6	1562	309.96	289.251089	20.708911	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1985	6	1567	309.95	289.242441	20.707559	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1985	6	1572	309.8	289.235084	20.564916	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1985	6	1577	309.73	289.230024	20.499976	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1985	6	1582	309.63	289.224964	20.405036	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1985	6	1587	309.62	289.219904	20.400096	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1985	6	1592	309.48	289.214845	20.265155	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1985	6	1597	309.61	289.209785	20.400215	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1985	6	1602	309.7	289.204725	20.495275	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1985	6	1607	309.7	289.199665	20.500335	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1985	6	1612	309.62	289.194606	20.425394	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1985	6	1618	309.36	289.188534	20.171466	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/11/1985	6	1623	309.27	289.183474	20.086526	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1985	6	1628	308.98	289.178415	19.801585	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/21/1985	6	1633	308.8	289.173355	19.626645	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1985	6	1638	308.72	289.168295	19.551705	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1985	6	1643	308.6	289.163842	19.436158	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/6/1985	6	1648	308.5	289.16032	19.33968	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/11/1985	6	1653	308.37	289.156798	19.213202	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1985	6	1658	308.33	289.153276	19.176724	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/21/1985	6	1663	308.23	289.149754	19.080246	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/26/1985	6	1668	308.2	289.146231	19.053769	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/31/1985	6	1673	308.07	289.142709	18.927291	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/6/1985	6	1679	307.98	289.138483	18.841517	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/11/1985	6	1684	307.88	289.13496	18.74504	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1985	6	1689	307.78	289.131438	18.648562	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/21/1985	6	1694	307.6	289.127916	18.472084	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/26/1985	6	1699	307.6	289.124394	18.475606	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1985	6	1704	307.52	289.120872	18.399128	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/6/1985	6	1710	307.43	289.116645	18.313355	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/11/1985	6	1715	307.35	289.113123	18.236877	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1985	6	1720	307.42	289.109601	18.310399	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/21/1985	6	1725	307.37	289.106078	18.263922	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1985	6	1730	307.36	289.103302	18.256698	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1985	6	1735	307.37	289.100716	18.269284	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1985	6	1740	307.32	289.09813	18.22187	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1985	6	1745	307.34	289.095544	18.244456	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1985	6	1750	307.44	289.092957	18.347043	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1985	6	1755	307.53	289.090371	18.439629	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1985	6	1760	307.75	289.087785	18.662215	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1985	6	1765	308.03	289.085198	18.944802	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1985	6	1771	308.13	289.082095	19.047905	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1985	6	1776	308.15	289.079509	19.070491	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1985	6	1811	310.29	289.061405	21.228595	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/21/1985	6	1816	309.95	289.058819	20.891181	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/26/1985	6	1821	309.75	289.056232	20.693768	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/6/1986	7	1832	309.52	289.021883	20.498117	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/11/1986	7	1837	309.53	288.983471	20.546529	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1986	7	1842	309.53	288.94506	20.58494	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/21/1986	7	1847	309.61	288.906649	20.703351	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/26/1986	7	1852	309.55	288.868238	20.681762	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/29/1986	7	1855	309.47	288.845191	20.624809	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1986	7	1857	309.39	288.829827	20.560173	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/6/1986	7	1863	310.2	288.783733	21.416267	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1986	7	1868	310.28	288.745322	21.534678	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1986	7	1873	310.08	288.706911	21.373089	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/21/1986	7	1878	309.98	288.672141	21.307859	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/26/1986	7	1883	309.77	288.652864	21.117136	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1986	7	1891	309.64	288.622021	21.017979	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1986	7	1896	309.6	288.602744	20.997256	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1986	7	1901	309.56	288.583467	20.976533	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1986	7	1906	309.37	288.56419	20.80581	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1986	7	1911	309.35	288.544913	20.805087	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1986	7	1916	309.32	288.525636	20.794364	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1986	7	1922	309.26	288.502504	20.757496	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1986	7	1927	309.33	288.483227	20.846773	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1986	7	1932	309.43	288.46395	20.96605	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1986	7	1937	309.48	288.446178	21.033822	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/23/1986	7	1939	309.39	288.441221	20.948779	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1986	7	1942	309.4	288.433785	20.966215	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1986	7	1947	309.5	288.421393	21.078607	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1986	7	1952	310.07	288.409001	21.660999	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1986	7	1957	309.88	288.396609	21.483391	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1986	7	1962	310.22	288.384216	21.835784	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1986	7	1967	310.2	288.371824	21.828176	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1986	7	1972	309.97	288.359432	21.610568	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1986	7	1977	309.64	288.347039	21.292961	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1986	7	1983	309.77	288.332168	21.437832	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/11/1986	7	1988	309.84	288.319776	21.520224	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1986	7	1993	309.83	288.307384	21.522616	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/21/1986	7	1998	309.73	288.294991	21.435009	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1986	7	2003	309.47	288.282599	21.187401	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1986	7	2008	309.24	288.271144	20.968856	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/6/1986	7	2013	309.01	288.261955	20.748045	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/11/1986	7	2018	308.82	288.252767	20.567233	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1986	7	2023	308.58	288.243578	20.336422	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/21/1986	7	2028	308.48	288.234389	20.245611	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/26/1986	7	2033	308.34	288.2252	20.1148	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/31/1986	7	2038	308.15	288.216012	19.933988	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/6/1986	7	2044	308.04	288.204985	19.835015	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/11/1986	7	2049	307.95	288.195796	19.754204	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1986	7	2054	307.88	288.186607	19.693393	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/21/1986	7	2059	307.76	288.177419	19.582581	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/26/1986	7	2064	307.67	288.16823	19.50177	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1986	7	2069	307.63	288.159041	19.470959	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/6/1986	7	2075	307.76	288.148015	19.611985	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/11/1986	7	2080	307.86	288.138826	19.721174	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1986	7	2085	307.79	288.129637	19.660363	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/21/1986	7	2090	307.71	288.120448	19.589552	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1986	7	2095	307.74	288.112743	19.627257	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1986	7	2100	307.65	288.105556	19.544444	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1986	7	2105	307.57	288.098369	19.471631	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1986	7	2110	307.59	288.091181	19.498819	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1986	7	2115	307.66	288.083994	19.576006	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1986	7	2120	307.61	288.076806	19.533194	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1986	7	2125	308.08	288.069619	20.010381	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1986	7	2130	308.14	288.062431	20.077569	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1986	7	2136	308.26	288.053806	20.206194	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1986	7	2141	308.25	288.046619	20.203381	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1986	7	2146	308.31	288.039432	20.270568	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1986	7	2151	308.35	288.032244	20.317756	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1986	7	2156	308.56	288.025057	20.534943	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1986	7	2161	308.97	288.017869	20.952131	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1986	7	2166	308.76	288.010682	20.749318	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/11/1986	7	2171	308.83	288.003494	20.826506	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1986	7	2176	309.2	287.996307	21.203693	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/21/1986	7	2181	309.68	287.98912	21.69088	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/26/1986	7	2186	310.05	287.981932	22.068068	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/31/1986	7	2191	310.08	287.974745	22.105255	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/6/1987	8	2197	309.71	287.983548	21.726452	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/11/1987	8	2202	309.62	287.998147	21.621853	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1987	8	2207	309.64	288.012745	21.627255	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/21/1987	8	2212	309.66	288.027343	21.632657	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/26/1987	8	2217	309.79	288.041941	21.748059	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1987	8	2222	309.64	288.056539	21.583461	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/6/1987	8	2228	309.58	288.074057	21.505943	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1987	8	2233	309.5	288.088655	21.411345	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1987	8	2238	309.7	288.103254	21.596746	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/21/1987	8	2243	309.55	288.115911	21.434089	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/26/1987	8	2248	309.9	288.120312	21.779688	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1987	8	2256	310.26	288.127352	22.132648	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1987	8	2261	310.05	288.131752	21.918248	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1987	8	2266	309.92	288.136152	21.783848	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1987	8	2271	310.23	288.140553	22.089447	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1987	8	2276	310.11	288.144953	21.965047	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1987	8	2281	309.84	288.149353	21.690647	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1987	8	2287	309.67	288.154633	21.515367	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1987	8	2292	309.7	288.159034	21.540966	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1987	8	2297	309.64	288.163434	21.476566	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1987	8	2302	309.52	288.167204	21.352796	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1987	8	2307	309.35	288.168722	21.181278	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1987	8	2312	309.29	288.17024	21.11976	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1987	8	2317	309.16	288.171758	20.988242	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1987	8	2322	309.15	288.173276	20.976724	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1987	8	2327	309.17	288.174794	20.995206	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1987	8	2332	309.35	288.176312	21.173688	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1987	8	2337	309.31	288.17783	21.13217	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1987	8	2342	309.54	288.179348	21.360652	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1987	8	2358	310.6	288.184205	22.415795	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1987	8	2373	309.65	288.18848	21.46152	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1987	8	2388	309.1	288.190175	20.909825	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/31/1987	8	2403	308.73	288.19187	20.53813	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1987	8	2419	308.33	288.193677	20.136323	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1987	8	2434	308.01	288.195372	19.814628	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1987	8	2450	307.88	288.19718	19.68282	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1987	8	2465	307.71	288.198276	19.511724	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1987	8	2480	307.5	288.198939	19.301061	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1987	8	2495	307.44	288.199602	19.240398	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1987	8	2511	307.69	288.20031	19.48969	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1987	8	2526	307.91	288.200974	19.709026	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1987	8	2541	307.92	288.201637	19.718363	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/31/1987	8	2556	308.37	288.202301	20.167699	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1988	9	2572	308.57	288.328179	20.241821	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1988	9	2587	308.61	288.462954	20.147046	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1988	9	2603	308.65	288.606714	20.043286	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/1/1988	9	2617	308.93	288.682388	20.247612	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1988	9	2622	308.97	288.702133	20.267867	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1988	9	2627	309.2	288.721878	20.478122	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1988	9	2632	308.97	288.741623	20.228377	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1988	9	2647	309.25	288.800857	20.449143	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1988	9	2663	309.2	288.864041	20.335959	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1988	9	2678	309.03	288.905692	20.124308	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1988	9	2693	308.87	288.943116	19.926884	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1988	9	2708	308.77	288.98054	19.78946	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1988	9	2724	308.43	289.020459	19.409541	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1988	9	2739	308.15	289.056293	19.093707	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1988	9	2754	307.91	289.084037	18.825963	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/31/1988	9	2769	307.54	289.11178	18.42822	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1988	9	2785	307.32	289.141374	18.178626	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1988	9	2800	307.12	289.169117	17.950883	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1988	9	2816	306.92	289.19871	17.72129	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1988	9	2831	306.75	289.222202	17.527798	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1988	9	2846	306.73	289.243375	17.486625	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1988	9	2861	306.6	289.264548	17.335452	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1988	9	2877	306.75	289.287132	17.462868	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1988	9	2892	306.7	289.308305	17.391695	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1988	9	2907	307.13	289.329478	17.800522	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/31/1988	9	2922	307.16	289.350651	17.809349	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1989	10	2938	307.28	289.384342	17.895658	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1989	10	2953	307.49	289.416622	18.073378	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1989	10	2969	307.7	289.451054	18.248946	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/1/1989	10	2982	307.93	289.468702	18.461298	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/14/1989	10	2995	307.89	289.483003	18.406997	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1989	10	2997	307.94	289.485203	18.454797	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1989	10	3002	307.93	289.490703	18.439297	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1989	10	3007	307.96	289.496203	18.463797	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1989	10	3012	308.13	289.501704	18.628296	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1989	10	3018	308.02	289.508304	18.511696	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1989	10	3023	307.99	289.513804	18.476196	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1989	10	3028	308.05	289.519304	18.530696	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1989	10	3033	308.03	289.523844	18.506156	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1989	10	3038	307.97	289.526673	18.443327	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1989	10	3043	308.03	289.529502	18.500498	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1989	10	3048	308.32	289.532331	18.787669	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1989	10	3053	308.55	289.53516	19.01484	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1989	10	3058	308.85	289.537988	19.312012	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1989	10	3063	309.76	289.540817	20.219183	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1989	10	3068	309.89	289.543646	20.346354	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1989	10	3073	308.8	289.546475	19.253525	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1989	10	3079	308.45	289.54987	18.90013	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/13/1989	10	3086	308.68	289.55383	19.12617	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1989	10	3181	307.2	289.579524	17.620476	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/21/1989	10	3186	307.13	289.580577	17.549423	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1989	10	3191	307.03	289.580836	17.449164	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1989	10	3196	306.97	289.580893	17.389107	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1989	10	3201	306.91	289.58095	17.32905	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1989	10	3206	307.06	289.581008	17.478992	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1989	10	3211	307.13	289.581065	17.548935	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1989	10	3216	307.04	289.581122	17.458878	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1989	10	3221	307.01	289.581179	17.428821	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1989	10	3226	307.13	289.581236	17.548764	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1989	10	3232	307.17	289.581305	17.588695	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1989	10	3237	307.11	289.581362	17.528638	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/1/1990	11	3347	309.38	288.997338	20.382662	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/2/1990	11	3348	307.2	288.992794	18.207206	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1990	11	3352	308.44	288.97462	19.46538	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1990	11	3357	308.6	288.951903	19.648097	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1990	11	3362	308.87	288.929185	19.940815	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1990	11	3367	309	288.906468	20.093532	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1990	11	3372	308.65	288.88375	19.76625	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1990	11	3377	308.7	288.861033	19.838967	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1990	11	3383	308.93	288.833772	20.096228	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1990	11	3388	308.93	288.811054	20.118946	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1990	11	3393	308.67	288.788336	19.881664	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1990	11	3398	308.56	288.767993	19.792007	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1990	11	3403	308.63	288.756137	19.873863	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1990	11	3408	309.08	288.744281	20.335719	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1990	11	3413	309.46	288.732425	20.727575	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1990	11	3418	309.53	288.720569	20.809431	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1990	11	3423	309.35	288.708713	20.641287	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1990	11	3428	309.2	288.696857	20.503143	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1990	11	3433	308.93	288.685001	20.244999	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1990	11	3438	308.55	288.673145	19.876855	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1990	11	3444	308.69	288.658918	20.031082	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/8/1990	11	3446	308.59	288.654176	19.935824	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1990	11	3454	308.2	288.635206	19.564794	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1990	11	3464	307.73	288.611494	19.118506	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1990	11	3469	307.55	288.601279	18.948721	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/6/1990	11	3474	307.4	288.595031	18.804969	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/11/1990	11	3479	307.3	288.588783	18.711217	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1990	11	3484	307.2	288.582534	18.617466	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/21/1990	11	3489	307.16	288.576286	18.583714	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/26/1990	11	3494	307.39	288.570038	18.819962	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/31/1990	11	3499	307.4	288.56379	18.83621	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/6/1990	11	3505	307.33	288.556292	18.773708	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/11/1990	11	3510	307.21	288.550044	18.659956	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1990	11	3515	307.09	288.543795	18.546205	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/21/1990	11	3520	306.97	288.537547	18.432453	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/26/1990	11	3525	306.86	288.531299	18.328701	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1990	11	3530	306.77	288.525051	18.244949	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/6/1990	11	3536	306.61	288.517553	18.092447	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/11/1990	11	3541	306.78	288.511304	18.268696	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1990	11	3546	306.89	288.505056	18.384944	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/21/1990	11	3551	306.84	288.498808	18.341192	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/22/1990	11	3552	306.84	288.497558	18.342442	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1990	11	3556	306.79	288.494896	18.295104	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1990	11	3561	306.74	288.491797	18.248203	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1990	11	3566	306.64	288.488699	18.151301	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1990	11	3571	306.67	288.485601	18.184399	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1990	11	3576	306.73	288.482503	18.247497	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1990	11	3581	306.69	288.479405	18.210595	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1990	11	3586	306.75	288.476307	18.273693	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1990	11	3591	306.72	288.473209	18.246791	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1990	11	3597	306.8	288.469492	18.330508	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1990	11	3602	307.02	288.466394	18.553606	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1990	11	3607	307.17	288.463296	18.706704	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1990	11	3612	307.2	288.460198	18.739802	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1990	11	3617	307.28	288.4571	18.8229	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1990	11	3622	307.17	288.454001	18.715999	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/5/1990	11	3626	307.13	288.451523	18.678477	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1990	11	3627	307.13	288.450903	18.679097	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/11/1990	11	3632	307.2	288.447805	18.752195	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1991	12	3668	309.27	288.40913	20.86087	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1991	12	3699	308.97	288.353675	20.616325	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/21/1991	12	3704	310.4	288.345903	22.054097	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/26/1991	12	3709	309.37	288.343123	21.026877	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/1/1991	12	3712	309.38	288.341455	21.038545	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1991	12	3717	309.54	288.338675	21.201325	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1991	12	3722	309.14	288.335895	20.804105	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1991	12	3727	309	288.333115	20.666885	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1991	12	3732	308.99	288.330335	20.659665	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1991	12	3737	308.9	288.327555	20.572445	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1991	12	3742	308.81	288.324775	20.485225	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1991	12	3748	308.82	288.321439	20.498561	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1991	12	3753	308.79	288.318659	20.471341	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1991	12	3758	309.03	288.315879	20.714121	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1991	12	3763	309.5	288.313503	21.186497	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1991	12	3768	309.28	288.312568	20.967432	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1991	12	3773	309.2	288.311634	20.888366	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1991	12	3778	309.2	288.3107	20.8893	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1991	12	3783	309.49	288.309765	21.180235	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1991	12	3788	309.63	288.308831	21.321169	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1991	12	3793	309.48	288.307896	21.172104	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1991	12	3798	309.3	288.306962	20.993038	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1991	12	3803	309.22	288.306028	20.913972	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1991	12	3809	309.05	288.304906	20.745094	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1991	12	3819	308.81	288.303038	20.506962	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/21/1991	12	3824	308.65	288.302103	20.347897	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1991	12	3829	308.48	288.301169	20.178831	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1991	12	3834	308.35	288.300448	20.049552	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/6/1991	12	3839	308.25	288.300242	19.949758	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/11/1991	12	3844	308.21	288.300037	19.909963	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/16/1991	12	3849	308.05	288.299831	19.750169	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/21/1991	12	3854	307.9	288.299626	19.600374	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/26/1991	12	3859	307.79	288.299421	19.490579	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/31/1991	12	3864	308.7	288.299215	20.400785	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/6/1991	12	3870	307.56	288.298969	19.261031	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/11/1991	12	3875	307.47	288.298763	19.171237	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/16/1991	12	3880	307.6	288.298558	19.301442	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/17/1991	12	3881	307.61	288.298517	19.311483	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/21/1991	12	3885	307.61	288.298353	19.311647	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/26/1991	12	3890	307.45	288.298147	19.151853	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	8/31/1991	12	3895	307.39	288.297942	19.092058	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/6/1991	12	3901	307.31	288.297695	19.012305	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/11/1991	12	3906	307.3	288.29749	19.00251	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/16/1991	12	3911	307.3	288.297284	19.002716	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/21/1991	12	3916	307.19	288.297079	18.892921	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1991	12	3921	307.27	288.297097	18.972903	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1991	12	3926	307.2	288.297193	18.902807	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1991	12	3931	307.27	288.297289	18.972711	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1991	12	3936	307.17	288.297385	18.872615	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1991	12	3941	307.19	288.297481	18.892519	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1991	12	3946	307.06	288.297577	18.762423	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1991	12	3951	307.07	288.297673	18.772327	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1991	12	3956	307.15	288.29777	18.85223	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1991	12	3962	307.32	288.297885	19.022115	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1991	12	3967	307.34	288.297981	19.042019	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1991	12	3972	307.4	288.298077	19.101923	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1991	12	3977	307.5	288.298173	19.201827	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1991	12	3982	307.64	288.298269	19.341731	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1991	12	3987	307.76	288.298365	19.461635	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/3/1991	12	3989	307.7	288.298403	19.401597	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1991	12	3992	307.74	288.298461	19.441539	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/11/1991	12	3997	307.85	288.298557	19.551443	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/16/1991	12	4002	308.01	288.298653	19.711347	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/21/1991	12	4007	308.7	288.298749	20.401251	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/26/1991	12	4012	309.83	288.298845	21.531155	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/31/1991	12	4017	309.59	288.298941	21.291059	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/6/1992	13	4023	309.42	288.330463	21.089537	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/11/1992	13	4028	309.25	288.369817	20.880183	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/16/1992	13	4033	309.27	288.409172	20.860828	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/21/1992	13	4038	309.47	288.448526	21.021474	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/26/1992	13	4043	309.79	288.48788	21.30212	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	1/31/1992	13	4048	310.03	288.527234	21.502766	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/6/1992	13	4054	310.05	288.574459	21.475541	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/11/1992	13	4059	310.07	288.613814	21.456186	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/16/1992	13	4064	310.16	288.653168	21.506832	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/26/1992	13	4074	309.96	288.705303	21.254697	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/29/1992	13	4077	309.57	288.71552	20.85448	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/1/1992	13	4078	309.57	288.718926	20.851074	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/6/1992	13	4083	309.7	288.735955	20.964045	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/11/1992	13	4088	309.74	288.752984	20.987016	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/16/1992	13	4093	309.9	288.770013	21.129987	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/21/1992	13	4098	310.03	288.787042	21.242958	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/26/1992	13	4103	310	288.804071	21.195929	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/28/1992	13	4105	309.83	288.810882	21.019118	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/31/1992	13	4108	309.87	288.8211	21.0489	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/6/1992	13	4114	309.83	288.841535	20.988465	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/11/1992	13	4119	309.72	288.858564	20.861436	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/16/1992	13	4124	309.55	288.875593	20.674407	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/21/1992	13	4129	309.55	288.88977	20.66023	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	4/26/1992	13	4134	309.38	288.899986	20.480014	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/1/1992	13	4139	309.31	288.910203	20.399797	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/6/1992	13	4144	309.23	288.92042	20.30958	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/11/1992	13	4149	309.14	288.930636	20.209364	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/16/1992	13	4154	309.03	288.940853	20.089147	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/21/1992	13	4159	309.85	288.95107	20.89893	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/26/1992	13	4164	309.87	288.961286	20.908714	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	5/31/1992	13	4169	309.79	288.971503	20.818497	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/6/1992	13	4175	310.24	288.983763	21.256237	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/11/1992	13	4180	310.16	288.99398	21.16602	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/16/1992	13	4185	309.76	289.004196	20.755804	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/21/1992	13	4190	309.37	289.014413	20.355587	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/26/1992	13	4195	309.21	289.02463	20.18537	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	6/27/1992	13	4196	309.11	289.026673	20.083327	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	7/1/1992	13	4200	307.55	289.033313	18.516687	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/22/1992	13	4283	307.4	289.150961	18.249039	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/26/1992	13	4287	307.31	289.155088	18.154912	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/1/1992	13	4292	307.18	289.160247	18.019753	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/6/1992	13	4297	307.18	289.165406	18.014594	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/11/1992	13	4302	307.15	289.170565	17.979435	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/16/1992	13	4307	307.1	289.175723	17.924277	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/21/1992	13	4312	307.11	289.180882	17.929118	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/26/1992	13	4317	307.15	289.186041	17.963959	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/31/1992	13	4322	307.19	289.1912	17.9988	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/1992	13	4328	307.1	289.19739	17.90261	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/11/1992	13	4333	307.15	289.202549	17.947451	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1992	13	4338	307.09	289.207708	17.882292	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1992	13	4343	307.38	289.212867	18.167133	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/26/1992	13	4348	307.4	289.218025	18.181975	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/1/1992	13	4353	307.35	289.223184	18.126816	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/6/1992	13	4358	307.33	289.228343	18.101657	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/13/1992	13	4365	307.35	289.235565	18.114435	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/8/1995	16	5425	309.35	288.230507	21.119493	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/21/1996	17	5804	307.65	287.256753	20.393247	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/20/1997	18	6168	306.62	287.878135	18.741865	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/20/1998	19	6533	308.66	287.922765	20.737235	135	135	335

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/16/1999	20	6894	307.6	288.632332	18.967668	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/13/2000	21	7196	305.15	288.50935	16.64065	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/17/2000	21	7261	306.2	288.511388	17.688612	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/6/2001	22	7615	306.2	288.028367	18.171633	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/5/2002	23	7979	306.45	288.005588	18.444412	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/27/2003	24	8305	306.52	287.780388	18.739612	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/9/2004	25	8714	303.85	287.521026	16.328974	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	3/7/2006	27	9197	306.88	287.197943	19.682057	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/7/2006	27	9442	305.99	286.788807	19.201193	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	2/5/2008	29	9897	306.15	286.715862	19.434138	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/15/2008	29	10181	305.7	286.454948	19.245052	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	11/20/2009	30	10551	305.55	286.13474	19.41526	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	12/9/2010	31	10935	299.77	286.008858	13.761142	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	9/28/2011	32	11228	301.15	285.379046	15.770954	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/24/2012	33	11620	301.08	285.527808	15.552192	135	135	335
3954604	6082221.648	19684166.66	104	5	1362062	482771	6	10/30/2013	34	11991	302.23	286.742738	15.487262	135	135	335
3954803	6072699.151	19668042.86	106	2	1456034	526816	7	1/1/1981	2	1	314.25	282.854453	31.395547	-161	-161	351
3954803	6072699.151	19668042.86	106	2	1456034	526816	7	4/29/1981	2	119	314.3	282.75339	31.54661	-161	-161	351
3955203	6110661.752	19701954.05	104	11	1362068	482777	6	5/1/1981	2	121	324.2	295.794106	28.405894	45	45	470
3955204	6111743.492	19698242.46	104	11	1455188	526455	7	4/22/2004	25	8513	259	268.458303	-9.458303	-1206	-1206	594
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	3/11/1981	2	70	346.27	273.028296	73.241704	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	3/25/1982	3	449	345.12	272.814127	72.305873	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/18/1983	4	1052	339.03	272.773381	66.256619	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/15/1984	5	1415	333.15	273.760986	59.389014	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	2/12/1988	9	2599	326.22	271.235743	54.984257	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	2/1/1989	10	2954	323.73	273.223401	50.506599	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	12/6/1989	10	3262	324.15	273.586456	50.563544	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	9/14/1993	14	4640	317.92	271.252621	46.667379	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	12/17/1994	15	5099	318.1	269.101039	48.998961	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/7/1995	16	5424	315.53	270.470294	45.059706	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/21/1996	17	5804	302.7	268.770653	33.929347	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/20/1997	18	6168	305.5	269.827049	35.672951	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/20/1998	19	6533	304.92	270.004684	34.915316	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/17/2000	21	7261	295.6	271.293508	24.306492	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/6/2001	22	7615	293.3	270.372013	22.927987	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	9/26/2003	24	8304	290.92	269.406375	21.513625	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/13/2004	25	8718	302.76	268.731019	34.028981	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	3/7/2006	27	9197	308.18	268.112943	40.067057	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/7/2006	27	9442	307.19	267.019732	40.170268	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	2/5/2008	29	9897	308.35	266.894128	41.455872	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/15/2008	29	10181	307	266.305047	40.694953	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/20/2009	30	10551	306.9	265.81254	41.08746	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	12/8/2010	31	10934	298.06	265.254281	32.805719	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	9/30/2011	32	11230	294.5	263.682564	30.817436	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	10/24/2012	33	11620	296	263.831293	32.168707	-4	-4	540
3955302	6129043.864	19699350.37	106	14	1362962	483043	6	11/2/2013	34	11994	298.33	266.394588	31.935412	-4	-4	540
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	3/11/1981	2	70	297.06	309.426254	-12.366254	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	3/19/1982	3	443	296.74	308.693584	-11.953584	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/20/1982	3	689	297.02	308.339806	-11.319806	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/18/1983	4	1052	297.64	308.73818	-11.09818	117	117	370

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/15/1984	5	1415	296.8	311.588568	-14.788568	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/8/1985	6	1773	295.65	309.822447	-14.172447	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	2/10/1988	9	2597	297.5	307.168234	-9.668234	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	2/1/1989	10	2954	296.4	311.671915	-15.271915	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	12/6/1989	10	3262	294.65	312.667446	-18.017446	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	12/3/1991	12	3989	294.55	309.323861	-14.773861	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	2/18/1993	14	4432	296.2	311.675073	-15.475073	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	2/25/1994	15	4804	296.8	307.570993	-10.770993	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	12/16/1994	15	5098	294.6	305.603402	-11.003402	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/8/1995	16	5425	293.25	310.123591	-16.873591	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/21/1996	17	5804	292.3	306.456216	-14.156216	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/20/1997	18	6168	289.17	309.593149	-20.423149	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/20/1998	19	6533	291.72	309.675131	-17.955131	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/16/1999	20	6894	289.4	312.979666	-23.579666	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/17/2000	21	7261	289.7	311.624555	-21.924555	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/6/2001	22	7615	293.05	309.796915	-16.746915	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/5/2002	23	7979	291.8	309.33256	-17.53256	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	9/26/2003	24	8304	293.12	310.368298	-17.248298	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/13/2004	25	8718	294.09	310.204128	-16.114128	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	3/7/2006	27	9197	294.56	309.879244	-15.319244	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/7/2006	27	9442	295.31	308.918914	-13.608914	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	11/20/2009	30	10551	295.32	306.429575	-11.109575	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	12/9/2010	31	10935	293	306.345547	-13.345547	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	9/30/2011	32	11230	291.55	305.104923	-13.554923	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	10/24/2012	33	11620	290.2	306.057169	-15.857169	117	117	370
3955701	6098995.858	19660216.26	109	5	1153553	420952	4	10/30/2013	34	11991	291.61	309.432508	-17.822508	117	117	370
3955804	6107358.652	19669418.4	109	8	1364690	483423	6	5/2/1981	2	122	305.1	286.913442	18.186558	-415	-415	385
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	3/19/1982	3	443	309.08	263.661338	45.418662	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/20/1982	3	689	308.1	263.521881	44.578119	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/18/1983	4	1052	308.1	263.619618	44.480382	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/15/1984	5	1415	307.23	264.329885	42.900115	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/8/1985	6	1773	305.93	263.838441	42.091559	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	12/2/1986	7	2162	305.8	262.236445	43.563555	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	2/12/1988	9	2599	305.2	262.17786	43.02214	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	2/1/1989	10	2954	299.6	263.697007	35.902993	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	12/6/1989	10	3262	297.75	263.996816	33.753184	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	12/19/1990	11	3640	300.4	262.005344	38.394656	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/16/1991	12	3972	302.54	262.025023	40.514977	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	2/17/1993	14	4431	294.4	272.598085	21.801915	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	2/25/1994	15	4804	291.3	261.501695	29.798305	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	12/16/1994	15	5098	292.9	260.341918	32.558082	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/8/1995	16	5425	301.65	261.201654	40.448346	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/21/1996	17	5804	300.8	259.912098	40.887902	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/20/1997	18	6168	301.88	260.575275	41.304725	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/20/1998	19	6533	299.71	260.769384	38.940616	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/16/1999	20	6894	298.8	261.649564	37.150436	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/17/2000	21	7261	293.55	262.017237	31.532763	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/5/2002	23	7979	298	261.010908	36.989092	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	9/26/2003	24	8304	297.4	260.403837	36.996163	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/13/2004	25	8718	297.85	259.776826	38.073174	-201	-201	530

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/7/2006	27	9442	295.99	258.139063	37.850937	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/15/2008	29	10181	293.7	257.523661	36.176339	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	11/20/2009	30	10551	293.75	257.246707	36.503293	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	12/9/2010	31	10935	291.2	256.709635	34.490365	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	9/30/2011	32	11230	289.65	255.335997	34.314003	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	10/24/2012	33	11620	289.34	255.330936	34.009064	-201	-201	530
3955902	6118553.179	19666866.46	110	9	1365276	483584	6	10/30/2013	34	11991	288.97	257.340564	31.629436	-201	-201	530
3956102	6133585.242	19698394.99	106	15	1362963	483044	6	4/30/1981	2	120	299.7	279.240573	20.459427	-117	-163	495
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/19/1982	3	688	239.31	259.921104	-20.611104	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/18/1983	4	1052	244.21	260.04418	-15.83418	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	2/10/1988	9	2597	239.75	258.249085	-18.499085	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	2/1/1989	10	2954	239.62	260.246146	-20.626146	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	12/6/1989	10	3262	243.2	260.539835	-17.339835	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	12/19/1990	11	3640	247.5	258.02155	-10.52155	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	9/17/1993	14	4643	243.81	258.554219	-14.744219	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	12/17/1994	15	5099	247.4	256.261592	-8.861592	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/7/1995	16	5424	258.49	257.439881	1.050119	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/21/1996	17	5804	249.75	255.823168	-6.073168	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/20/1997	18	6168	255.15	256.783557	-1.633557	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/20/1998	19	6533	258.05	256.91504	1.13496	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/16/1999	20	6894	258.75	258.07376	0.67624	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/17/2000	21	7261	260.15	258.327368	1.822632	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	9/26/2003	24	8304	262.56	256.292136	6.267864	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/12/2004	25	8717	265.63	255.461084	10.168916	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	3/7/2006	27	9197	258.68	254.736127	3.943873	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/7/2006	27	9442	256.98	253.474995	3.505005	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	2/5/2008	29	9897	257.45	253.40877	4.04123	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/14/2008	29	10180	264.75	252.778095	11.971905	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/19/2009	30	10550	265.45	252.461985	12.988015	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	12/8/2010	31	10934	263.49	251.71205	11.77795	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	9/30/2011	32	11230	261.18	249.896416	11.283584	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	10/24/2012	33	11620	259.66	249.986983	9.673017	-32	-32	400
3956301	6160509.909	19704316.62	108	20	1364054	483303	6	11/2/2013	34	11994	255.74	252.621127	3.118873	-32	-32	400
3956703	6133767.811	19668511.9	111	12	1155405	421862	4	9/6/2003	24	8284	297	312.297512	-15.297512	-187	-196	534
3956802	6155545.976	19666142.53	114	15	1367472	484230	6	9/6/1989	10	3171	268	259.844244	8.155756	-558	-568	460
3956902	6159457.051	19668410.2	114	16	1157602	422508	4	3/19/1982	3	443	303.6	299.243908	4.356092		27	435
3956902	6159457.051	19668410.2	114	16	1157602	422508	4	11/19/1983	4	1053	303.09	299.154331	3.935669		27	435
3956902	6159457.051	19668410.2	114	16	1157602	422508	4	11/15/1984	5	1415	301.26	302.177471	-0.917471		27	435
3956902	6159457.051	19668410.2	114	16	1157602	422508	4	11/8/1985	6	1773	300.23	300.650579	-0.420579		27	435
3956902	6159457.051	19668410.2	114	16	1157602	422508	4	12/2/1986	7	2162	300.12	295.398804	4.721196		27	435
3956902	6159457.051	19668410.2	114	16	1157602	422508	4	12/19/1990	11	3640	300.2	299.474216	0.725784		27	435
3956902	6159457.051	19668410.2	114	16	1157602	422508	4	11/8/1995	16	5425	300.3	298.792904	1.507096		27	435
3963301	6130875.544	19647032.18	115	9	1158357	422705	4	9/17/1993	14	4643	281.53	291.397765	-9.867765		103	470
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	3/11/1981	2	70	314.18	310.44414	3.73586		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	3/19/1982	3	443	311.36	309.546139	1.813861		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	11/19/1983	4	1053	313.61	309.456819	4.153181		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	11/15/1984	5	1415	312.62	312.681694	-0.061694		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	12/2/1986	7	2162	312.18	305.484912	6.695088		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	2/10/1988	9	2597	312	306.11637	5.88363		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	2/1/1989	10	2954	311.67	311.482994	0.187006		130	479

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	12/6/1989	10	3262	312.5	312.773442	-0.273442		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	12/19/1990	11	3640	311.1	310.007852	1.092148		130	479
3963302	6131027.483	19652610.1	114	10	1157596	422502	4	11/16/1991	12	3972	308.48	308.465625	0.014375		130	479
3963303	6122063.607	19648244.7	113	8	1156859	422323	4	11/19/1983	4	1053	311.15	305.947137	5.202863		102	532
3963303	6122063.607	19648244.7	113	8	1156859	422323	4	12/2/1986	7	2162	311.52	302.490672	9.029328		102	532
3964703	6141161.866	19628649.81	118	9	1160733	423315	4	3/11/1981	2	70	296.03	283.220897	12.809103		-222	372
3964703	6141161.866	19628649.81	118	9	1160733	423315	4	3/19/1982	3	443	298.3	282.744627	15.555373		-222	372
3964703	6141161.866	19628649.81	118	9	1160733	423315	4	11/18/1982	3	687	297.15	282.477225	14.672775		-222	372
3964703	6141161.866	19628649.81	118	9	1160733	423315	4	11/19/1983	4	1053	297.65	282.697974	14.952026		-222	372
3964703	6141161.866	19628649.81	118	9	1160733	423315	4	12/14/1984	5	1444	296.1	284.555215	11.544785		-222	372
3964704	6135223.088	19624590.53	119	8	1370741	484873	6	11/4/1986	7	2134	270	257.305793	12.694207	-822	-895	370
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	7/1/1991	12	3834	282	244.43372	37.56628	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/7/1995	16	5424	279.54	243.249713	36.290287	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/21/1996	17	5804	281.1	242.268134	38.831866	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/20/1998	19	6533	275.5	242.84922	32.65078	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/13/1999	20	6891	278.25	253.882465	24.367535	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	9/13/2000	21	7196	275.05	244.231628	30.818372	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/17/2000	21	7261	277.35	244.285834	33.064166	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/17/2001	22	7626	276.6	243.794656	32.805344	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/5/2002	23	7979	276.6	243.32991	33.27009	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	9/26/2003	24	8304	275.3	242.745325	32.554675	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/13/2004	25	8718	274.33	242.043184	32.286816	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	3/7/2006	27	9197	267.52	241.260375	26.259625	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/7/2006	27	9442	273.31	240.251887	33.058113	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	2/8/2008	29	9900	269.35	248.879401	20.470599	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/15/2008	29	10181	270.7	239.644127	31.055873	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/20/2009	30	10551	265.82	247.430863	18.389137	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	12/9/2010	31	10935	266.85	247.311631	19.538369	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	10/1/2011	32	11231	269.9	237.533104	32.366896	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	10/24/2012	33	11620	264.1	237.323228	26.776772	-809	-819	383
3964705	6135072.509	19626409.07	118	8	1370129	484730	6	11/1/2013	34	11993	252.31	243.043327	9.266673	-809	-819	383
3964901	6162446.233	19618971.44	122	12	845115	312938	2	3/18/1982	3	442	271.98	299.098276	-27.118276	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/18/1982	3	687	270.84	299.002191	-28.162191	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/19/1983	4	1053	271.79	299.10799	-27.31799	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/7/1985	6	1772	280.52	293.711064	-13.191064	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/15/1986	7	2145	267	298.205782	-31.205782	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	12/8/1989	10	3264	275.94	298.780047	-22.840047	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/28/1990	11	3619	274.08	298.383866	-24.303866	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	2/11/1992	13	4059	268.49	297.984649	-29.494649	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	1/6/1993	14	4389	261.65	298.817948	-37.167948	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/9/1993	14	4696	267	298.751052	-31.751052	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	12/15/1994	15	5097	268.4	297.840616	-29.440616	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/15/1995	16	5432	267.9	298.907596	-31.007596	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/19/1996	17	5802	267.8	297.966561	-30.166561	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	6/16/1998	19	6376	265.83	299.114469	-33.284469	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/19/1998	19	6532	265.2	299.091151	-33.891151	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/11/1999	20	6889	264.4	299.872518	-35.472518	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	2/22/2001	22	7358	264.3	299.366083	-35.066083	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/14/2001	22	7623	263.79	299.043217	-35.253217	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/14/2002	23	7988	263.68	298.577525	-34.897525	-109	-109	332

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3964901	6162446.233	19618971.44	122	12	845115	312938	2	2/23/2005	26	8820	263.3	299.024178	-35.724178	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	12/14/2006	27	9479	262.05	298.513541	-36.463541	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/7/2007	28	9807	261.8	298.535527	-36.735527	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/15/2008	29	10181	260.9	298.385812	-37.485812	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/20/2009	30	10551	261.21	298.137671	-36.927671	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	12/8/2010	31	10934	257.96	297.990795	-40.030795	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	10/1/2011	32	11231	255.23	297.536134	-42.306134	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	10/23/2012	33	11619	254.72	297.913326	-43.193326	-109	-109	332
3964901	6162446.233	19618971.44	122	12	845115	312938	2	11/1/2013	34	11993	252.75	298.866031	-46.116031	-109	-109	332
5907202	6107485.466	19610051.79	118	2	1160726	423308	4	3/19/1982	3	443	277.17	279.092622	-1.922622		-108	330
5907202	6107485.466	19610051.79	118	2	1160726	423308	4	11/20/1982	3	689	276.21	278.917584	-2.707584		-108	330
5908201	6146210.563	19611199.12	122	9	845083	312906	2	3/19/1982	3	443	276.4	310.491006	-34.091006		-10	372
5908201	6146210.563	19611199.12	122	9	845083	312906	2	11/19/1983	4	1053	275.62	310.517773	-34.897773		-10	372
5908201	6146210.563	19611199.12	122	9	845083	312906	2	11/15/1986	7	2145	273.15	309.252263	-36.102263		-10	372
5908201	6146210.563	19611199.12	122	9	845083	312906	2	2/12/1988	9	2599	273.07	309.696539	-36.626539		-10	372
5908201	6146210.563	19611199.12	122	9	845083	312906	2	11/28/1990	11	3619	271.2	310.447813	-39.247813		-10	372
5908201	6146210.563	19611199.12	122	9	845083	312906	2	11/19/1996	17	5802	268.8	309.514627	-40.714627		-10	372
5908201	6146210.563	19611199.12	122	9	845083	312906	2	11/5/1997	18	6153	268.25	310.482611	-42.232611		-10	372
5908403	6138651.117	19586413.56	125	5	848318	314538	2	10/18/1991	12	3943	245	269.361614	-24.361614	-305	-310	355
5908701	6139644.527	19582902.62	126	5	849558	315163	2	3/18/1982	3	442	256.2	292.846599	-36.646599	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/18/1982	3	687	255	292.800176	-37.800176	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	4/18/1984	5	1204	253.38	293.022558	-39.642558	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/15/1984	5	1415	252.47	293.200156	-40.730156	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/7/1985	6	1772	253.57	281.149347	-27.579347	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/15/1986	7	2145	252.17	292.379119	-40.209119	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	2/12/1988	9	2599	256.65	292.031921	-35.381921	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	12/8/1989	10	3264	251.25	292.213634	-40.963634	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/28/1990	11	3619	250.99	291.67912	-40.68912	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	2/11/1992	13	4059	252.07	292.148565	-40.078565	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	1/6/1993	14	4389	249.85	292.643601	-42.793601	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/9/1993	14	4696	252.2	292.082904	-39.882904	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	12/15/1994	15	5097	244.05	277.469485	-33.419485	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/15/1995	16	5432	251.2	292.911929	-41.711929	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/19/1996	17	5802	248.45	292.390854	-43.940854	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/5/1997	18	6153	247.35	292.618567	-45.268567	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/19/1998	19	6532	247.75	292.07179	-44.32179	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/11/1999	20	6889	244.23	278.083793	-33.853793	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/14/2001	22	7623	245.58	292.492609	-46.912609	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/14/2002	23	7988	240.67	290.890222	-50.220222	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	2/23/2005	26	8820	243.65	291.79988	-48.14988	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	12/7/2005	26	9107	239.65	291.796433	-52.146433	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	12/14/2006	27	9479	238.12	291.297506	-53.177506	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/7/2007	28	9807	238.05	291.548064	-53.498064	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/15/2008	29	10181	240.5	291.332516	-50.832516	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/21/2009	30	10552	240.23	291.39664	-51.16664	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	12/8/2010	31	10934	235.33	291.141036	-55.811036	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	10/1/2011	32	11231	225.05	270.996499	-45.946499	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	10/23/2012	33	11619	234.82	291.078107	-56.258107	-297	-297	348
5908701	6139644.527	19582902.62	126	5	849558	315163	2	11/1/2013	34	11993	228.85	291.696762	-62.846762	-297	-297	348
5916102	6141573.231	19555311.97	131	3	854932	318269	2	12/17/1982	3	716	256.25	283.942316	-27.692316	-322	-322	360

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
5916102	6141573.231	19555311.97	131	3	854932	318269	2	4/18/1984	5	1204	255.22	284.007476	-28.787476	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/15/1984	5	1415	255.73	284.066873	-28.336873	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/15/1986	7	2145	252.55	274.433433	-21.883433	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	2/20/1988	9	2607	255.1	283.589248	-28.489248	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	12/12/1989	10	3268	253.97	283.576754	-29.606754	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/28/1990	11	3619	254.45	283.37063	-28.92063	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	1/6/1993	14	4389	257.7	283.791099	-26.091099	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/9/1993	14	4696	253.8	283.640172	-29.840172	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/15/1995	16	5432	253.3	283.954103	-30.654103	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/19/1996	17	5802	252.98	283.797038	-30.817038	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/5/1997	18	6153	251.75	283.807867	-32.057867	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/19/1998	19	6532	252.56	283.527939	-30.967939	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/11/1999	20	6889	252.05	283.736509	-31.686509	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	2/22/2001	22	7358	251.25	283.82368	-32.57368	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/14/2001	22	7623	251.03	283.767344	-32.737344	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/14/2002	23	7988	251.69	282.927219	-31.237219	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	2/25/2005	26	8822	253.5	283.389844	-29.889844	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	12/7/2005	26	9107	249.9	283.372077	-33.472077	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	12/14/2006	27	9479	244.61	283.154857	-38.544857	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/7/2007	28	9807	244.46	283.280684	-38.820684	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/15/2008	29	10181	248.85	283.177593	-34.327593	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/21/2009	30	10552	247.49	283.243014	-35.753014	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	12/8/2010	31	10934	244.2	283.113821	-38.913821	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	10/1/2011	32	11231	240.31	282.914551	-42.604551	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	10/23/2012	33	11619	241.66	283.067206	-41.407206	-322	-322	360
5916102	6141573.231	19555311.97	131	3	854932	318269	2	11/1/2013	34	11993	241.8	283.300219	-41.500219	-322	-322	360
6001101	6176693.352	19614318.33	124	14	1373396	485504	6	9/18/1981	2	261	260.1	243.183483	16.916517		-1340	260
6001204	6197803.952	19602831.48	128	16	852080	316556	2	1/27/1983	4	757	200	223.215466	-23.215466	-913	-928	297
6001204	6197803.952	19602831.48	128	16	852080	316556	2	7/24/1993	14	4588	230.35	233.228839	-2.878839	-913	-928	297
6001401	6176905.539	19596493.66	127	12	850875	315824	2	10/1/1987	8	2465	205	234.91083	-29.91083	-760	-770	290
6001502	6190689.646	19588181.81	130	14	853988	317759	2	3/11/1981	2	70	237.61	240.974461	-3.364461	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	3/18/1982	3	442	235.83	240.950387	-5.120387	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	4/18/1984	5	1204	231.2	240.987046	-9.787046	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	11/15/1984	5	1415	230.8	241.042107	-10.242107	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	11/7/1985	6	1772	230.08	240.988916	-10.908916	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	11/15/1986	7	2145	230.03	240.827853	-10.797853	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	2/12/1988	9	2599	231.16	240.488774	-9.328774	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	1/7/1989	10	2929	230.47	240.201183	-9.731183	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	12/8/1989	10	3264	228.94	236.928126	-7.988126	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	2/22/1992	13	4070	230.74	235.959652	-5.2219652	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	1/6/1993	14	4389	229.99	236.426014	-6.436014	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	11/9/1993	14	4696	227.6	240.762399	-13.162399	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	12/15/1994	15	5097	228.6	239.607323	-11.007323	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	11/14/1995	16	5431	230.1	239.018059	-8.918059	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	11/19/1998	19	6532	228.6	241.126135	-12.526135	-775	-775	285
6001502	6190689.646	19588181.81	130	14	853988	317759	2	11/1/2013	34	11993	209.92	240.384201	-30.464201	-775	-775	285
6001602	6201332.171	19599111.42	129	17	853079	317225	2	3/18/1982	3	442	220.88	227.0134	-6.1334		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/18/1982	3	687	220.15	226.784232	-6.634232		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/19/1983	4	1053	225.3	229.639671	-4.339671		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	12/14/1984	5	1444	213.53	224.876289	-11.346289		-897	268

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
6001602	6201332.171	19599111.42	129	17	853079	317225	2	1/7/1989	10	2929	217.88	228.309518	-10.429518		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	2/22/1992	13	4070	223.95	220.009418	3.940582		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	1/6/1993	14	4389	222.18	221.390467	0.789533		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/9/1993	14	4696	221.2	235.050099	-13.850099		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/14/1995	16	5431	222.7	229.304435	-6.604435		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/19/1996	17	5802	223.45	229.121085	-5.671085		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/5/1997	18	6153	222.35	227.219132	-4.869132		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/19/1998	19	6532	220.35	236.261226	-15.911226		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	11/12/1999	20	6890	218.87	236.169767	-17.299767		-897	268
6001602	6201332.171	19599111.42	129	17	853079	317225	2	2/22/2001	22	7358	216.95	234.66827	-17.71827		-897	268
6003201	6264459.489	19606064.36	134	28	858208	320337	2	7/20/1995	16	5314	170.05	170.964001	-0.914001		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	7/1/1997	18	6026	158	170.711273	-12.711273		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	11/5/1997	18	6153	159.3	167.297952	-7.997952		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	7/1/1998	19	6391	159	170.916701	-11.916701		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	11/20/1998	19	6533	155	166.140038	-11.140038		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	11/1/1999	20	6879	162	170.472254	-8.472254		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	9/1/2000	21	7184	157	170.516403	-13.516403		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	2/22/2001	22	7358	162.2	170.689265	-8.489265		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	9/1/2001	22	7549	151	170.679878	-19.679878		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	11/14/2001	22	7623	147.15	163.616164	-16.466164		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	11/15/2002	23	7989	154	170.568161	-16.568161		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	3/17/2003	24	8111	140	170.653239	-30.653239		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	5/15/2004	25	8536	145	170.631152	-25.631152		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	4/16/2005	26	8872	133	170.501002	-37.501002		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	6/13/2006	27	9295	135	170.006805	-35.006805		-1265	220
6003201	6264459.489	19606064.36	134	28	858208	320337	2	9/8/2007	28	9747	137	170.43406	-33.43406		-1265	220
6003202	6264467.349	19605861.84	134	28	858208	320337	2	3/11/1981	2	70	179.52	171.950992	7.569008		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	3/18/1982	3	442	177.05	171.935266	5.114734		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/18/1982	3	687	175.14	171.928013	3.211987		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/19/1983	4	1053	165.32	169.943223	-4.623223		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/15/1984	5	1415	171.7	171.946316	-0.246316		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/7/1985	6	1772	170.7	171.924536	-1.224536		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/15/1986	7	2145	165.75	170.054696	-4.304696		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	2/12/1988	9	2599	148	170.994991	-22.994991		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	1/7/1989	10	2929	149.81	170.981993	-21.171993		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/9/1993	14	4696	127.3	170.878882	-43.578882		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	12/14/1994	15	5096	171.3	170.782666	0.517334		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/15/1995	16	5432	173.1	171.65294	1.44706		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/19/1996	17	5802	174.5	170.880941	3.619059		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	7/1/1997	18	6026	170.5	170.773104	-0.273104		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/5/1997	18	6153	164.8	168.991218	-4.191218		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	7/1/1998	19	6391	160.5	170.97724	-10.47724		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/20/1998	19	6533	168.1	170.974878	-2.874878		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/1/1999	20	6879	166.5	170.538515	-4.038515		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/13/1999	20	6891	164.62	168.763931	-4.143931		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	9/1/2000	21	7184	167.5	170.581229	-3.081229		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	2/22/2001	22	7358	157.3	166.715691	-9.415691		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	9/1/2001	22	7549	159.5	170.741552	-11.241552		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/14/2001	22	7623	149.47	164.355334	-14.885334		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	11/15/2002	23	7989	167.5	170.629599	-3.129599		-1262	232

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
6003202	6264467.349	19605861.84	134	28	858208	320337	2	3/17/2003	24	8111	152	170.714504	-18.714504		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	5/15/2004	25	8536	157	170.692541	-13.692541		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	4/16/2005	26	8872	135	170.561758	-35.561758		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	6/13/2006	27	9295	112	170.072948	-58.072948		-1262	232
6003202	6264467.349	19605861.84	134	28	858208	320337	2	9/8/2007	28	9747	131	170.494431	-39.494431		-1262	232
6003902	6281959.169	19576754.29	140	28	864523	324264	2	3/11/1981	2	70	207.34	193.019739	14.320261	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	12/17/1981	2	351	205.18	193.026066	12.153934	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	12/15/1983	4	1079	198.23	193.014291	5.215709	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	12/7/1986	7	2167	191.71	192.950242	-1.240242	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	12/11/1987	8	2536	195.65	192.775596	2.874404	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	8/11/1995	16	5336	199.5	192.774257	6.725743	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	11/19/1997	18	6167	193.9	192.687106	1.212894	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	11/12/1999	20	6890	193.05	192.666814	0.383186	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	12/2/2003	24	8371	188.86	192.672268	-3.812268	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	2/25/2005	26	8822	198.33	192.521242	5.808758	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	12/7/2005	26	9107	193.6	192.468171	1.131829	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	12/13/2006	27	9478	193.1	192.239412	0.860588	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	11/8/2007	28	9808	188.8	192.335164	-3.535164	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	1/22/2009	30	10249	189.31	192.267358	-2.957358	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	1/13/2011	32	10970	185.39	192.178864	-6.788864	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	10/19/2011	32	11249	180.08	191.979812	-11.899812	-2090	-2090	224
6003902	6281959.169	19576754.29	140	28	864523	324264	2	10/10/2012	33	11606	179.98	192.035218	-12.055218	-2090	-2090	224
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/1/1981	2	1	222.32375	191.687142	30.636608		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/29/1981	2	29	219.23	191.586635	27.643365		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	3/6/1981	2	65	219.42	191.4756	27.9444		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/16/1981	2	106	218.95	191.37876	27.57124		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	6/3/1981	2	154	219.17	191.303132	27.866868		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/16/1981	2	197	219.43	191.247083	28.182917		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	8/29/1981	2	241	218.67	191.204293	27.465707		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	9/22/1981	2	265	218.52	191.180953	27.339047		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	11/10/1981	2	314	218.08	191.150305	26.929695		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	12/19/1981	2	353	217.74	191.125915	26.614085		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	3/2/1982	3	426	218.04	190.977656	27.062344		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	5/28/1982	3	513	219.72	190.842969	28.877031		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	9/22/1982	3	630	217.54	190.727473	26.812527		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	12/9/1982	3	708	217.87	190.679194	27.190806		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	3/19/1983	4	808	223.17	190.815499	32.354501		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/7/1983	4	918	225.31	190.935828	34.374172		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	9/24/1983	4	997	222.24	190.985076	31.254924		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/7/1984	5	1193	223.41	192.130432	31.279568		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	6/20/1984	5	1267	223.02	192.640892	30.379108		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	9/25/1984	5	1364	220.97	193.073274	27.896726		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	5/22/1985	6	1603	223.57	192.215295	31.354705		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	9/4/1985	6	1708	222.91	191.838133	31.071867		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	12/3/1985	6	1798	221.2	191.650712	29.549288		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/2/1986	7	1918	222.81	190.023499	32.786501		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/10/1986	7	2017	222.72	188.982138	33.737862		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	9/5/1986	7	2074	220.47	188.575417	31.894583		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/15/1987	8	2206	223.91	188.02842	35.88158		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	8/18/1987	8	2421	222.08	188.737378	33.342622		185	265

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/6/2000	21	6945	219.01	194.81054	24.19946		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/5/2000	21	7035	219.61	193.998957	25.611043		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/7/2000	21	7128	219.02	193.573256	25.446744		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/3/2000	21	7216	217.78	193.354714	24.425286		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/17/2001	22	7322	219.51	193.096112	26.413888		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/4/2001	22	7399	223.92	192.635974	31.284026		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/6/2001	22	7492	221.75	192.287458	29.462542		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/4/2001	22	7582	220.29	192.0695	28.2205		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/8/2002	23	7678	223.36	191.902743	31.457257		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/18/2002	23	7778	223.82	191.760713	32.059287		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/16/2002	23	7867	220.31	191.676181	28.633819		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/24/2002	23	7967	218.88	191.609513	27.270487		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/16/2003	24	8051	224.31	191.700799	32.609201		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/4/2003	24	8129	224.32	192.290547	32.029453		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/2/2003	24	8218	222.24	192.694451	29.545549		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/4/2003	24	8312	220.06	192.946305	27.113695		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/14/2004	25	8414	220.56	193.063278	27.496722		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/8/2004	25	8499	223.62	192.775678	30.844322		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/17/2004	25	8599	223.75	192.581356	31.168644		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/20/2004	25	8694	220.99	192.467716	28.522284		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/6/2005	26	8772	224.49	192.400076	32.089924		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/13/2005	26	8869	224.62	192.345333	32.274667		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	6/1/2005	26	8918	222.49	192.32253	30.16747		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/13/2005	26	8960	221.09	192.305252	28.784748		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/14/2005	26	9053	219.68	192.27642	27.40358		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/18/2006	27	9149	219.25	192.126008	27.123992		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/11/2006	27	9232	221.03	191.574377	29.455623		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/11/2006	27	9323	219.9	191.219898	28.680102		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/5/2006	27	9409	218.53	191.00043	27.52957		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/10/2007	28	9506	222.74	190.819992	31.920008		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	5/5/2007	28	9621	222.17	190.632589	31.537411		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/20/2007	28	9697	220.95	190.561142	30.388858		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/19/2007	28	9788	219.54	190.501189	29.038811		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/9/2008	29	9870	219.54	190.455149	29.084851		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/8/2008	29	9960	222.74	190.364468	32.375532		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/2/2008	29	10045	219.92	190.301498	29.618502		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/23/2008	29	10158	218.74	190.243616	28.496384		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/16/2009	30	10243	219.57	190.106837	29.463163		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/8/2009	30	10325	221.09	189.626496	31.463504		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/17/2009	30	10425	219.63	189.293175	30.336825		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/8/2009	30	10508	218.94	189.113211	29.826789		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/15/2010	31	10607	222.19	188.987381	33.202619		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/13/2010	31	10695	222.6	189.028214	33.571786		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/8/2010	31	10781	220.17	189.023728	31.146272		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/5/2010	31	10870	218.72	189.005522	29.714478		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/4/2011	32	10961	218.14	188.972345	29.167655		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/6/2011	32	11053	218.36	188.439173	29.920827		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/12/2011	32	11150	217.31	188.081714	29.228286		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	8/30/2011	32	11199	216.85	187.953514	28.896486		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/14/2011	32	11244	216.63	187.85226	28.77774		185	265

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/13/2012	33	11335	217.59	187.772707	29.817293		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/10/2012	33	11423	221.64	188.234874	33.405126		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	8/14/2012	33	11549	219.73	188.592866	31.137134		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/4/2012	33	11600	219.69	188.69224	30.99776		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	1/18/2013	34	11706	221.52	189.100103	32.419897		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	4/9/2013	34	11787	221.67	190.19202	31.47798		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	7/3/2013	34	11872	220.11	190.880272	29.229728		185	265
312725093325301	6927679.995	19819001.4	159	157	1482187	541519	7	10/22/2013	34	11983	218.32	191.415409	26.904591		185	265
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/1/1981	2	1	80.286667	128.089241	-47.802575		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/15/1981	2	15	78.21	128.08657	-49.87657		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/12/1981	2	43	78.38	128.081227	-49.701227		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/10/1981	2	69	78.65	128.074181	-49.424181		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/7/1981	2	97	78.2	128.065737	-49.865737		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/13/1981	2	133	78.08	128.054415	-49.974415		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/12/1981	2	163	79.31	128.044781	-48.734781		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/10/1981	2	191	79.14	128.036122	-48.896122		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/12/1981	2	224	77.98	128.026527	-50.046527		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/4/1981	2	247	77.83	128.019839	-50.189839		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/7/1981	2	280	77.48	128.011045	-50.531045		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/5/1981	2	309	78.37	128.004162	-49.634162		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/8/1981	2	342	78.1	127.996331	-49.896331		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/9/1982	3	405	77.95	127.978559	-50.028559		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/11/1982	3	435	78.41	127.968647	-49.558647		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/14/1982	3	469	78.16	127.957039	-49.797039		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/3/1982	3	488	78.85	127.950789	-49.100789		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/2/1982	3	518	78.96	127.941088	-48.981088		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/7/1982	3	553	79.81	127.930109	-48.120109		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/12/1982	3	589	78.68	127.929201	-49.2401		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/9/1982	3	617	77.84	127.912315	-50.072315		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/15/1982	3	653	77.65	127.903598	-50.253598		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/9/1982	3	678	77.38	127.898069	-50.518069		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/21/1982	3	720	80.64	127.888781	-47.248781		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/14/1983	4	744	83.71	127.885545	-44.175545		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/10/1983	4	771	84.35	127.884234	-43.534234		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/10/1983	4	799	84.43	127.884976	-43.454976		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/14/1983	4	834	84.11	127.887372	-43.777372		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/10/1983	4	860	83.23	127.890162	-44.660162		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/11/1983	4	892	85.22	127.893961	-42.673961		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/13/1983	4	924	82.6	127.897874	-45.297874		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/11/1983	4	953	81.3	127.901563	-46.601563		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/15/1983	4	988	80.08	127.906015	-47.826015		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/14/1983	4	1017	79.4	127.909391	-48.509391		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/1/1983	4	1035	79.06	127.911422	-48.851422		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/16/1983	4	1080	81.57	127.916497	-46.346497		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/7/1984	5	1102	81.44	127.922449	-46.482449		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/4/1984	5	1130	81.93	127.945042	-46.015042		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/9/1984	5	1164	83.9	127.98003	-44.08003		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/6/1984	5	1192	83.87	128.014405	-44.144405		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/4/1984	5	1220	82.49	128.049978	-45.559978		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/6/1984	5	1253	81.9	128.09311	-46.19311		9.9	105.9

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/6/1984	5	1283	81.46	128.131397	-46.671397		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/11/1984	5	1319	80.55	128.173994	-47.623994		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/5/1984	5	1344	80.52	128.203576	-47.683576		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/2/1984	5	1371	79.43	128.233339	-48.803339		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/19/1984	5	1419	81.92	128.280342	-46.360342		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/4/1984	5	1434	82.03	128.295031	-46.265031		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/9/1985	6	1470	82.19	128.323334	-46.133334		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/8/1985	6	1500	81.63	128.326681	-46.696681		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/6/1985	6	1526	83.51	128.321784	-44.811784		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/2/1985	6	1553	83.67	128.310592	-44.640592		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/16/1985	6	1597	83.34	128.286905	-44.946905		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/11/1985	6	1623	81.38	128.270841	-46.890841		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/16/1985	6	1658	80.33	128.248975	-47.918975		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/21/1985	6	1694	80.52	128.226221	-47.706221		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/24/1985	6	1728	78.97	128.204906	-49.234906		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/26/1985	6	1760	79.56	128.187498	-48.627498		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/23/1985	6	1788	81.17	128.172266	-47.002266		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/24/1985	6	1819	82.31	128.155403	-45.845403		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/22/1986	7	1848	81.4	128.121176	-46.721176		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/25/1986	7	1882	81.68	128.068859	-46.388859		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/15/1986	7	1900	81.16	128.033538	-46.873538		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/19/1986	7	1935	80.63	127.964858	-47.334858		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/7/1986	7	1953	80.73	127.928943	-47.198943		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/10/1986	7	1987	81.36	127.861043	-46.501043		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/9/1986	7	2016	81.2	127.805108	-46.605108		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/12/1986	7	2050	79.78	127.74432	-47.96432		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/23/1986	7	2092	79.06	127.669457	-48.609457		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/27/1986	7	2126	79.19	127.619592	-48.429592		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/13/1986	7	2143	79.12	127.59466	-48.47466		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/9/1986	7	2169	80.48	127.556529	-47.076529		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/10/1987	8	2201	81.49	127.520688	-46.030688		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/11/1987	8	2233	81.48	127.518119	-46.038119		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/17/1987	8	2267	83.44	127.525347	-44.085347		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/15/1987	8	2296	82.87	127.534593	-44.664593		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/19/1987	8	2330	82.02	127.547676	-45.527676		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/10/1987	8	2352	81.58	127.556387	-45.976387		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/8/1987	8	2411	80.02	127.579153	-47.559153		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/5/1987	8	2439	79.56	127.589818	-48.029818		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/16/1987	8	2480	78.98	127.603929	-48.623929		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/6/1987	8	2501	78.85	127.610594	-48.760594		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/17/1987	8	2542	80.9	127.623607	-46.723607		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/13/1988	9	2569	83.49	127.643674	-44.153674		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/16/1988	9	2603	82.87	127.690002	-44.820002		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/11/1988	9	2627	83.73	127.738672	-44.008672		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/9/1988	9	2656	84.76	127.801396	-43.041396		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/4/1988	9	2681	82.75	127.859214	-45.109214		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/8/1988	9	2716	81	127.943599	-46.943599		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/8/1988	9	2746	80.08	128.014638	-47.934638		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/5/1988	9	2774	79.1	128.078327	-48.978327		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/8/1988	9	2808	78.8	128.155664	-49.355664		9.9	105.9

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/7/1988	9	2837	78.29	128.215482	-49.925482		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/19/1989	10	2941	80.98	128.40309	-47.42309		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/22/1989	10	3003	82.55	128.484549	-45.934549		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/18/1989	10	3121	89.28	128.604206	-39.324206		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/26/1989	10	3221	80.85	128.675617	-47.825617		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/10/1990	11	3297	81.05	128.710592	-47.660592		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/5/1990	11	3382	87.02	128.650216	-41.630216		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/22/1990	11	3429	89	128.609146	-39.609146		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/6/1990	11	3444	90.28	128.595997	-38.315997		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/20/1990	11	3458	89.33	128.583724	-39.253724		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/11/1990	11	3479	86.18	128.566726	-42.386726		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/17/1990	11	3577	80.45	128.496774	-48.046774		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/10/1991	12	3662	81.62	128.450581	-46.830581		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/30/1991	12	3741	83.2	128.445765	-45.245765		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/30/1991	12	3802	88.65	128.436506	-39.786506		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/10/1991	12	3843	81.82	128.428597	-46.608597		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/13/1991	12	3969	82.55	128.402965	-45.852965		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/15/1992	13	4032	86.83	128.407519	-41.577519		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/27/1992	13	4075	87.01	128.457805	-41.447805		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/2/1992	13	4110	86.74	128.514452	-41.774452		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/11/1992	13	4180	83.88	128.627909	-44.747909		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/15/1992	13	4214	83.09	128.679139	-45.589139		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	9/9/1992	13	4270	81.07	128.756672	-47.686672		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/14/1992	13	4305	86.13	128.798236	-42.668236		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	12/11/1992	13	4363	80.29	128.860929	-48.570929		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/23/1993	14	4406	82.82	128.859077	-46.039077		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/23/1993	14	4437	82.51	128.821484	-46.311484		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/22/1993	14	4495	84.57	128.711051	-44.141051		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/27/1993	14	4530	84.31	128.642253	-44.332253		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/8/1993	14	4572	83.02	128.561438	-45.541438		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/28/1993	14	4623	80.49	128.471096	-47.981096		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/13/1993	14	4669	79.38	128.396408	-49.016408		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/24/1993	14	4711	79.5	128.33561	-48.83561		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/11/1994	15	4759	79.7	128.265361	-48.565361		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/2/1994	15	4809	81.91	128.18765	-46.27765		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/8/1994	15	4846	82.34	128.126937	-45.786937		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/19/1994	15	4887	83.19	128.062135	-44.872135		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/29/1994	15	4928	84.43	127.998346	-43.568346		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/9/1994	15	4969	80.47	127.942768	-47.472768		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/4/1994	15	5025	79.11	127.870149	-48.760149		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/9/1994	15	5061	80.21	127.831112	-47.621112		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/5/1995	16	5118	81.34	127.77223	-46.43223		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/15/1995	16	5159	82.58	127.767773	-45.187773		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	3/29/1995	16	5201	83.34	127.792066	-44.452066		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/17/1995	16	5250	84.73	127.835791	-43.105791		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/13/1995	16	5307	82.93	127.897625	-44.967625		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/17/1995	16	5342	81.13	127.937238	-46.807238		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/13/1995	16	5399	79.44	127.998962	-48.558962		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	11/29/1995	16	5446	78.76	128.045827	-49.285827		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/17/1996	17	5495	78.98	128.079078	-49.099078		9.9	105.9

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/27/1996	17	5536	78.64	128.071808	-49.431808		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/10/1996	17	5579	78.42	128.035999	-49.615999		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/17/1996	17	5769	77.76	127.827915	-50.067915		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/24/1997	18	5868	79.81	127.76297	-47.95297		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/15/1997	18	5949	83.73	127.839529	-44.109529		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/16/1997	18	6041	81.83	127.975745	-46.145745		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/17/1997	18	6134	79.76	128.103635	-48.343635		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/21/1998	19	6230	84.32	128.218295	-43.898295		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/23/1998	19	6322	83.58	128.303831	-44.723831		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/16/1998	19	6406	79.69	128.351025	-48.661025		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/14/1998	19	6496	79.15	128.3792	-49.2292		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	1/20/1999	20	6594	87.32	128.420879	-41.100879		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/8/1999	20	6672	84.89	128.561627	-43.671627		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/21/1999	20	6776	80.48	128.758883	-48.278883		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/21/1999	20	6868	78.2	128.897294	-50.697294		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	2/5/2000	21	6975	77.45	129.007373	-51.557373		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/11/2000	21	7041	78.75	129.019797	-50.269797		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/3/2009	30	10381	81.64	127.898448	-46.258448		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	5/25/2012	33	11468	79.33	127.514536	-48.184536		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	6/28/2012	33	11502	78.16	127.529541	-49.369541		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	8/22/2012	33	11557	77.18	127.553469	-50.373469		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/25/2012	33	11621	76.52	127.579304	-51.059304		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	4/9/2013	34	11787	78.99	127.745186	-48.755186		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	7/2/2013	34	11871	77.92	127.883204	-49.963204		9.9	105.9
313121092512401	7140875.72	19856052.27	173	196	901430	354178	2	10/18/2013	34	11979	76.57	128.035129	-51.465129		9.9	105.9
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/1/1981	2	1	155.63	179.270159	-23.640159		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	9/22/1981	2	265	154.67	178.790644	-24.120644		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/1/1982	3	639	155.09	178.443226	-23.353226		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	9/30/1983	4	1003	155.72	178.769491	-23.049491		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	9/25/1984	5	1364	155.6	180.605534	-25.005534		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	9/10/1985	6	1714	155.54	179.196936	-23.656936		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	9/10/1986	7	2079	156.39	176.422164	-20.032164		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	8/19/1987	8	2422	156.71	177.032714	-20.322714		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/16/2002	23	7867	155.79	179.497726	-23.707726		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/24/2002	23	7967	154.55	179.470968	-24.920968		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/16/2003	24	8051	155.59	179.661549	-24.071549		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/4/2003	24	8129	155.94	180.541507	-24.601507		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/2/2003	24	8218	155.94	181.044933	-25.104933		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/4/2003	24	8312	154.69	181.291695	-26.601695		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/14/2004	25	8414	154.5	181.335678	-26.835678		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/8/2004	25	8499	155.73	180.870428	-25.140428		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/17/2004	25	8599	156.33	180.62485	-24.29485		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/20/2004	25	8694	155.95	180.516174	-24.566174		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/6/2005	26	8772	155.52	180.452607	-24.932607		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/13/2005	26	8869	156.45	180.245796	-23.795796		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	6/1/2005	26	8918	156.06	180.195701	-24.135701		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/13/2005	26	8960	155.38	180.162081	-24.782081		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/14/2005	26	9053	154.13	180.119667	-25.989667		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/18/2006	27	9149	153.63	179.968158	-26.338158		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/11/2006	27	9232	154.5	179.444218	-24.944218		-13	265

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/11/2006	27	9323	154.27	179.170233	-24.900233		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/5/2006	27	9409	153.03	179.038385	-26.008385		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/10/2007	28	9506	154.23	178.951607	-24.721607		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	5/5/2007	28	9621	155.42	178.848717	-23.428717		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/19/2007	28	9696	155.61	178.8156	-23.2056		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/19/2007	28	9788	155.27	178.791453	-23.521453		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/31/2008	29	9892	155.48	178.752318	-23.272318		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/17/2008	29	9969	156.8	178.702363	-21.902363		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/2/2008	29	10045	156.6	178.67705	-22.07705		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/23/2008	29	10158	155.55	178.658508	-23.108508		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/16/2009	30	10243	155.41	178.543608	-23.133608		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/15/2009	30	10332	156.13	178.050861	-21.920861		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/10/2009	30	10418	155.89	177.828243	-21.938243		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/8/2009	30	10508	155.3	177.704856	-22.404856		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/14/2010	31	10606	155.83	177.65291	-21.82291		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/13/2010	31	10695	156.16	177.756527	-21.596527		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/8/2010	31	10781	154.48	177.798958	-23.318958		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/6/2010	31	10871	152.71	177.818576	-25.108576		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/5/2011	32	10962	152.33	177.809347	-25.479347		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/6/2011	32	11053	152	177.344242	-25.344242		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/12/2011	32	11150	151.25	177.107677	-25.857677		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	9/27/2011	32	11227	150.44	177.007332	-26.567332		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/20/2011	32	11250	150.03	176.990156	-26.960156		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/6/2012	33	11328	150.2	176.963714	-26.763714		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/13/2012	33	11426	152.16	177.526224	-25.366224		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	8/2/2012	33	11537	152.48	177.789475	-25.309475		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/4/2012	33	11600	152.5	177.873571	-25.373571		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	1/4/2013	34	11692	152.21	177.992707	-25.782707		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	4/9/2013	34	11787	153	179.237661	-26.237661		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	7/3/2013	34	11872	152.97	179.772212	-26.802212		-13	265
313748093451001	6860521.092	19878334.44	143	152	1475848	535831	7	10/25/2013	34	11986	152.05	180.097928	-28.047928		-13	265
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	6/15/1996	17	5645	96	118.772985	-22.772985		-565	160
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	9/14/2004	25	8658	88.38	120.259529	-31.879529		-565	160
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	3/23/2005	26	8848	104.61	123.725998	-19.115998		-565	160
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	3/21/2007	28	9576	102.96	121.327743	-18.367743		-565	160
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	4/4/2012	33	11417	109.77	120.789342	-11.019342		-565	160
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	5/16/2013	34	11824	109.32	123.43283	-14.11283		-565	160
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	8/13/2013	34	11913	109.11	124.029084	-14.919084		-565	160
313925093044401	7069015.874	19900690.92	159	188	885002	338393	2	10/25/2013	34	11986	109.75	124.581702	-14.831702		-565	160
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/1/1981	2	1	107.691667	107.288	0.403666		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/16/1981	2	16	103.97	107.270394	-3.300394		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/13/1981	2	44	103.86	107.237528	-3.377528		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/12/1981	2	71	104.16	107.224621	-3.064621		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/8/1981	2	98	103.9	107.217294	-3.317294		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/14/1981	2	134	103.7	107.210714	-3.510714		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/16/1981	2	167	104.45	107.206003	-2.756003		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/11/1981	2	192	104.3	107.20303	-2.90303		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/14/1981	2	226	103.41	107.199865	-3.789865		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/3/1981	2	246	104.1	107.198004	-3.098004		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/8/1981	2	281	102.73	107.195227	-4.465227		47	120

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/6/1981	2	310	102.6	107.193398	-4.593398		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/16/1981	2	350	102.4	107.190876	-4.790876		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/9/1982	3	405	102.5	107.159691	-4.659691		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/12/1982	3	436	103.18	107.147005	-3.967005		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/15/1982	3	470	103.44	107.140308	-3.700308		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/4/1982	3	489	104.74	107.137752	-2.397752		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/4/1982	3	520	104.42	107.134255	-2.714255		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/8/1982	3	554	103.82	107.130711	-3.310711		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/12/1982	3	589	103.49	107.127968	-3.637968		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/9/1982	3	617	103.1	107.125774	-4.025774		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/14/1982	3	652	102.9	107.123523	-4.223523		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/11/1982	3	680	102.77	107.121964	-4.351964		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/16/1982	3	715	106.81	107.120015	-0.310015		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/13/1983	4	743	110.12	107.128584	2.991416		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/11/1983	4	772	111.03	107.153671	3.876329		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/10/1983	4	799	110.99	107.164629	3.825371		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/13/1983	4	833	110.41	107.170559	3.239441		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/11/1983	4	861	109.77	107.173495	2.596505		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/9/1983	4	890	111.18	107.175875	4.004125		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/13/1983	4	924	109.14	107.178248	1.961752		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/11/1983	4	953	108.01	107.179728	0.830272		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/14/1983	4	987	106.87	107.181464	-0.311464		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/14/1983	4	1017	106.3	107.182616	-0.882616		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/1/1983	4	1035	105.91	107.183221	-1.273221		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/14/1983	4	1078	108.64	107.184666	1.455334		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/7/1984	5	1102	109.19	107.207591	1.982409		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/8/1984	5	1134	109.55	107.350228	2.199772		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/7/1984	5	1162	111.19	107.420578	3.769422		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/6/1984	5	1192	110.38	107.451881	2.928119		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/4/1984	5	1220	109.51	107.473766	2.036234		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/6/1984	5	1253	108.27	107.49217	0.77783		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/4/1984	5	1281	107.51	107.506754	0.003246		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/8/1984	5	1316	106.75	107.519666	-0.769666		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/5/1984	5	1344	106.17	107.529996	-1.359996		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/2/1984	5	1371	105.48	107.538705	-2.058705		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/15/1984	5	1415	107.33	107.549793	-0.219793		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/4/1984	5	1434	108.56	107.554582	1.005418		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/9/1985	6	1470	107.62	107.528477	0.091523		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/8/1985	6	1500	108.01	107.404125	0.605875		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/6/1985	6	1526	110.47	107.345617	3.124383		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/2/1985	6	1553	110.37	107.32347	3.04653		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/14/1985	6	1595	109.16	107.299591	1.860409		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/11/1985	6	1623	108.36	107.288561	1.071439		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/17/1985	6	1659	107.12	107.277052	-0.157052		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/21/1985	6	1694	106.13	107.268469	-1.138469		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/24/1985	6	1728	105.52	107.260299	-1.740299		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/26/1985	6	1760	105.9	107.255177	-1.355177		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/23/1985	6	1788	107.49	107.250695	0.239305		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/24/1985	6	1819	109.49	107.245733	2.244267		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/22/1986	7	1848	108.66	107.112168	1.547832		47	120

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/25/1986	7	1882	109.49	106.91261	2.57739		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/15/1986	7	1900	108.95	106.88478	2.06522		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/19/1986	7	1935	108.18	106.830666	1.349334		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/8/1986	7	1954	108.33	106.814079	1.515921		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/10/1986	7	1987	109.69	106.786382	2.903618		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/9/1986	7	2016	109.82	106.764604	3.055396		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/12/1986	7	2050	107.84	106.745271	1.094729		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/23/1986	7	2092	106.77	106.721511	0.048489		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/27/1986	7	2126	107.16	106.708034	0.451966		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/13/1986	7	2143	107.22	106.701296	0.518704		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/9/1986	7	2169	109.16	106.69099	2.46901		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/13/1987	8	2204	110.76	106.715547	4.044453		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/7/1987	8	2229	109.41	106.792978	2.617022		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/13/1987	8	2263	111.68	106.844009	4.835991		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/15/1987	8	2296	110.33	106.860732	3.469268		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/20/1987	8	2331	108.76	106.869009	1.890991		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/9/1987	8	2351	108.09	106.872857	1.217143		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/2/1987	8	2374	109.44	106.877062	2.562938		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/8/1987	8	2411	106.6	106.880864	-0.280864		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/4/1987	8	2438	106.01	106.883638	-0.873638		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/16/1987	8	2480	105.28	106.886935	-1.606935		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/14/1987	8	2509	105.06	106.888669	-1.828669		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/12/1988	9	2568	108	106.978464	1.021536		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/16/1988	9	2603	108.36	107.28249	1.07751		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/11/1988	9	2627	109.61	107.357847	2.252153		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/8/1988	9	2655	111.01	107.414251	3.595749		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/4/1988	9	2681	109.23	107.452608	1.777392		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/11/1988	9	2688	108.81	107.460208	1.349792		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/8/1988	9	2716	107.46	107.490607	-0.030607		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/8/1988	9	2746	106.54	107.51979	-0.97979		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/4/1988	9	2773	106.1	107.53944	-1.43944		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/8/1988	9	2808	105.68	107.564911	-1.884911		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/7/1988	9	2837	105.12	107.58244	-2.46244		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/20/1989	10	2942	109.38	107.633466	1.746534		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/24/1989	10	3005	110.33	107.655773	2.674227		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/4/1989	10	3016	110.99	107.658979	3.331021		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/20/1989	10	3123	112.25	107.682892	4.567108		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/25/1989	10	3220	107.1	107.697693	-0.597693		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/12/1989	10	3268	106.35	107.703548	-1.353548		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/11/1990	11	3298	109.6	107.671499	1.928501		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/6/1990	11	3383	110.76	107.481884	3.278116		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/20/1990	11	3397	110.57	107.470832	3.099168		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/23/1990	11	3430	110.32	107.458138	2.861862		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/6/1990	11	3444	110.38	107.452753	2.927247		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/19/1990	11	3457	109.48	107.447752	2.032248		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/10/1990	11	3478	108.35	107.441226	0.908774		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/16/1990	11	3576	105.51	107.420082	-1.910082		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/11/1991	12	3663	106.62	107.409054	-0.789054		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/3/1991	12	3745	109.52	107.407722	2.112278		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/29/1991	12	3801	111.51	107.401619	4.108381		47	120

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/9/1991	12	3842	109.83	107.397507	2.432493		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/11/1991	12	3936	107.46	107.39047	0.06953		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/14/1991	12	3970	107.65	107.388557	0.261443		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/16/1992	13	4033	109.12	107.469487	1.650513		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/26/1992	13	4074	111.87	107.686708	4.183292		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/3/1992	13	4111	111.12	107.734673	3.385327		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/8/1992	13	4116	110.84	107.741154	3.098846		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/13/1992	13	4182	109.59	107.791676	1.798324		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/16/1992	13	4215	108.25	107.809391	0.440609		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	9/10/1992	13	4271	106.93	107.833294	-0.903294		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/15/1992	13	4306	106.13	107.844893	-1.714893		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	12/10/1992	13	4362	106.61	107.860903	-1.250903		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/28/1993	14	4411	110.55	107.606344	2.943656		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/24/1993	14	4438	109.62	107.382855	2.237145		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/24/1993	14	4466	111.06	107.329504	3.730496		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/27/1993	14	4530	109.88	107.244657	2.635343		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/10/1993	14	4574	109.16	107.207722	1.952278		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/31/1993	14	4626	106.95	107.17729	-0.22729		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/14/1993	14	4670	105.82	107.155909	-1.335909		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/25/1993	14	4712	105.7	107.139678	-1.439678		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/14/1994	15	4762	105.71	107.08806	-1.37806		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/5/1994	15	4812	109.42	106.962695	2.457305		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/8/1994	15	4846	109.38	106.932922	2.447078		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/14/1994	15	4852	109.58	106.927668	2.652332		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/18/1994	15	4886	110.78	106.907297	3.872703		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/29/1994	15	4928	109.15	106.884575	2.265425		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/10/1994	15	4970	107.75	106.868121	0.881879		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/5/1994	15	5026	106.35	106.847652	-0.497652		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/9/1994	15	5061	107.99	106.837758	1.152242		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/6/1995	16	5119	109.35	106.846239	2.503761		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/14/1995	16	5158	110.54	107.077764	3.462236		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	3/29/1995	16	5201	110.93	107.162544	3.767456		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/17/1995	16	5250	111.37	107.210218	4.159782		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/12/1995	16	5306	108.53	107.245886	1.284114		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/18/1995	16	5343	107.36	107.262559	0.097441		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/12/1995	16	5398	105.95	107.284465	-1.334465		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	11/29/1995	16	5446	105.41	107.299086	-1.889086		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/18/1996	17	5496	105.6	107.220266	-1.620266		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/27/1996	17	5536	105.3	107.027368	-1.727368		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/10/1996	17	5579	105.41	106.973561	-1.563561		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/18/1996	17	5587	105.58	106.96355	-1.38355		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/17/1996	17	5769	104.9	106.87657	-1.97657		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/24/1997	18	5868	107	106.999393	0.000607		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/15/1997	18	5949	111.15	107.237398	3.912602		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/16/1997	18	6041	108.82	107.300088	1.519912		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/17/1997	18	6134	106.42	107.33807	-0.91807		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/21/1998	19	6230	110.73	107.326481	3.403519		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/16/1998	19	6315	110.01	107.277666	2.732334		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/23/1998	19	6322	109.91	107.276876	2.633124		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/16/1998	19	6406	106.61	107.27049	-0.66049		47	120

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/14/1998	19	6496	106.23	107.266894	-1.036894		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/20/1999	20	6594	110.27	107.365265	2.904735		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/9/1999	20	6673	111.2	107.598456	3.601544		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/15/1999	20	6679	110.9	107.605911	3.294089		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/22/1999	20	6777	107.33	107.666374	-0.336374		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/21/1999	20	6868	105.07	107.699966	-2.629966		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	2/10/2000	21	6980	105.42	107.588336	-2.168336		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/12/2000	21	7042	106.15	107.519382	-1.369382		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/20/2000	21	7141	106.32	107.487131	-1.167131		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/18/2002	23	7778	110.79	107.204442	3.585558		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/16/2002	23	7867	107.05	107.195578	-0.145578		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/9/2002	23	7952	105.39	107.189158	-1.799158		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/9/2003	24	8044	109.86	107.197378	2.662622		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/22/2003	24	8147	109.86	107.304767	2.555233		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/2/2003	24	8218	109.31	107.323426	1.986574		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/7/2003	24	8315	107.01	107.340672	-0.330672		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/6/2004	25	8406	107.12	107.347453	-0.227453		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/6/2004	25	8497	109.93	107.282894	2.647106		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/2/2004	25	8584	111.8	107.270645	4.529355		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/7/2004	25	8681	107.28	107.263045	0.016955		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/4/2005	26	8770	110.44	107.26092	3.17908		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/13/2005	26	8869	110.72	107.309128	3.410872		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	6/2/2005	26	8919	108.7	107.310082	1.389918		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/6/2005	26	8953	107.44	107.310198	0.129802		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/6/2005	26	9045	105.5	107.309034	-1.809034		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/19/2006	27	9150	104.66	107.263093	-2.603093		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/11/2006	27	9232	107.16	107.148387	0.011613		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/11/2006	27	9323	105.89	107.116959	-1.226959		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/5/2006	27	9409	104.03	107.098692	-3.068692		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/12/2007	28	9508	107.85	107.082875	0.767125		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	5/18/2007	28	9634	107.3	107.06364	0.23636		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/10/2007	28	9687	107	107.058312	-0.058312		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/19/2007	28	9788	105.43	107.050875	-1.620875		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/31/2008	29	9892	105.39	107.027173	-1.637173		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/11/2008	29	9963	108.7	107.007969	1.692031		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/4/2008	29	10047	105.97	107.002609	-1.032609		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/23/2008	29	10158	105.69	106.998156	-1.308156		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/8/2009	30	10235	108.28	106.978	1.302		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/7/2009	30	10324	109.98	106.844173	3.135827		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/10/2009	30	10418	106.75	106.814615	-0.064615		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/24/2009	30	10524	108.18	106.795991	1.384009		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/5/2010	31	10597	110.46	106.788777	3.671223		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/13/2010	31	10695	109.87	106.824957	3.045043		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/8/2010	31	10781	106.68	106.82507	-0.14507		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/6/2010	31	10871	104.48	106.82386	-2.34386		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/5/2011	32	10962	103.96	106.816724	-2.856724		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/5/2011	32	11052	104.72	106.705437	-1.985437		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/13/2011	32	11151	103.36	106.676929	-3.316929		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/6/2011	32	11236	102.19	106.662118	-4.472118		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/6/2012	33	11328	102.9	106.659848	-3.759848		47	120

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/13/2012	33	11426	109.29	106.78814	2.50186		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	8/2/2012	33	11537	105.62	106.812709	-1.192709		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/4/2012	33	11600	104.65	106.821464	-2.171464		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	1/4/2013	34	11692	104.56	106.846921	-2.286921		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	4/9/2013	34	11787	107.94	107.162183	0.777817		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	7/2/2013	34	11871	106.99	107.222597	-0.232597		47	120
314542093043701	7067066.342	19938717.85	152	191	557763	303472	1	10/18/2013	34	11979	104.32	107.266651	-2.946651		47	120
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/1/1981	2	1	107.3275	115.242987	-7.915487		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/3/1981	2	62	103.96	115.158742	-11.198742		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/2/1981	2	153	108.58	115.147129	-6.567129		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/9/1981	2	252	104.38	115.144034	-10.764034		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	12/11/1981	2	345	108.14	115.142219	-7.002219		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/2/1982	3	426	108.44	115.086595	-6.646595		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/8/1982	3	524	115.78	115.078077	0.701923		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/10/1982	3	618	103.87	115.075552	-11.205552		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	12/7/1982	3	706	113.01	115.073929	-2.063929		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/8/1983	4	797	115.85	115.14092	0.70908		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/7/1983	4	888	114.58	115.148727	-0.568727		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/13/1983	4	986	104.7	115.150158	-10.450158		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	12/6/1983	4	1070	106.84	115.150829	-8.310829		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/10/1984	5	1165	112.51	115.477043	-2.967043		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/12/1984	5	1259	106.63	115.516792	-8.886792		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/11/1984	5	1350	102.19	115.527089	-13.337089		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	12/8/1984	5	1438	113.16	115.533929	-2.373929		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/6/1985	6	1526	117.82	115.224728	2.595272		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/18/1985	6	1630	114.38	115.187892	-0.807892		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/17/1985	6	1721	105.38	115.18201	-9.80201		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	12/17/1985	6	1812	115.43	115.178313	0.251687		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/11/1986	7	1896	109.86	114.696202	-4.836202		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/3/1986	7	1980	113.48	114.637137	-1.157137		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/16/1986	7	2085	107.73	114.617217	-6.887217		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	12/3/1986	7	2163	114.85	114.607864	0.242136		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/4/1987	8	2254	120.03	114.872131	5.157869		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/2/1987	8	2344	111.09	114.901641	-3.811641		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/1/1987	8	2435	108.76	114.904256	-6.144256		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/6/1987	8	2470	107.59	114.904585	-7.314585		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	11/6/1987	8	2501	106.69	114.904735	-8.214735		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	12/17/1987	8	2542	110.43	114.904932	-4.474932		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/13/1988	9	2569	120.85	115.038656	5.811344		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	2/16/1988	9	2603	115.34	115.451746	-0.111746		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/9/1988	9	2625	115.96	115.527361	0.432639		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/7/1988	9	2654	117.34	115.570053	1.769947		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	5/3/1988	9	2680	114.29	115.592245	-1.302245		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/7/1988	9	2715	111	115.603825	-4.603825		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/7/1988	9	2745	109.18	115.612543	-6.432543		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	8/4/1988	9	2773	108.42	115.617808	-7.197808		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	9/7/1988	9	2807	107.69	115.624201	-7.934201		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/6/1988	9	2836	106.84	115.628967	-8.788967		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/20/1989	10	2942	113.53	115.653454	-2.123454		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/23/1989	10	3004	116.87	115.676424	1.193576		77.48	133.48

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/20/1989	10	3123	120.03	115.686475	4.343525		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/24/1989	10	3219	111.28	115.692197	-4.412197		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/12/1990	11	3299	111.47	115.638998	-4.168998		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/10/1990	11	3387	124.21	115.388184	8.821816		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	5/24/1990	11	3431	127.86	115.378272	12.481728		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/5/1990	11	3443	126.46	115.376869	11.083131		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/19/1990	11	3457	123.3	115.375233	7.924767		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/10/1990	11	3478	115.91	115.373378	0.536622		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/16/1990	11	3576	110.97	115.367959	-4.397959		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/10/1991	12	3662	112.67	115.352488	-2.682488		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/12/1991	12	3754	112.27	115.280448	-3.010448		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	5/29/1991	12	3801	118.69	115.276788	3.413212		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/9/1991	12	3842	111.6	115.274696	-3.674696		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/10/1991	12	3935	107.01	115.271646	-8.261646		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/17/1992	13	4034	117.84	115.401517	2.438483		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/3/1992	13	4111	114.58	115.743823	-1.163823		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/16/1992	13	4215	113.29	115.777011	-2.487011		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/16/1992	13	4307	104.67	115.787316	-11.117316		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/21/1993	14	4494	117.12	115.111372	2.008628		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/10/1993	14	4574	109.6	115.089283	-5.489283		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/15/1993	14	4671	104.13	115.075335	-10.945335		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/12/1994	15	4760	106.55	115.033551	-8.483551		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/7/1994	15	4845	111.66	114.881338	-3.221338		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/30/1994	15	4929	106.8	114.862819	-8.062819		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/5/1994	15	5026	101.88	114.852076	-12.972076		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/6/1995	16	5119	121.21	114.889782	6.320218		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	3/31/1995	16	5203	122.37	115.453154	6.916846		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/11/1995	16	5305	121.77	115.49729	6.27271		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/11/1995	16	5397	120.37	115.507269	4.862731		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/16/1996	17	5494	120.86	115.358903	5.501097		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/3/1996	17	5572	120.59	114.917172	5.672828		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/9/1997	18	5943	124.7	115.35265	9.34735		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/9/1997	18	6034	121.81	115.380169	6.429831		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/8/1997	18	6125	120.73	115.389435	5.340565		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/15/1998	19	6224	126.37	115.364545	11.005455		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/16/1998	19	6315	122.53	115.290299	7.239701		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/8/1998	19	6398	120.79	115.287612	5.502388		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/8/1998	19	6490	120.78	115.286556	5.493444		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/14/1999	20	6588	123.03	115.384047	7.645953		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/14/1999	20	6678	123.65	115.733864	7.916136		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/22/1999	20	6777	121.23	115.754227	5.475773		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/15/1999	20	6862	120.48	115.762456	4.717544		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	2/2/2000	21	6972	120.38	115.590245	4.789755		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/7/2000	21	7037	121.73	115.458989	6.271011		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/19/2000	21	7140	120.86	115.443259	5.416741		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/18/2002	23	7778	124.96	115.235162	9.724838		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/16/2002	23	7867	120.8	115.232486	5.567514		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/5/2002	23	7948	120.5	115.230318	5.269682		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/16/2003	24	8051	122.37	115.257918	7.112082		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/4/2003	24	8129	122.15	115.345839	6.804161		77.48	133.48

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/2/2003	24	8218	121.04	115.356897	5.683103		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/7/2003	24	8315	120.87	115.361462	5.508538		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/6/2004	25	8406	121.16	115.359398	5.800602		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/6/2004	25	8497	121.8	115.291696	6.508304		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/2/2004	25	8584	123.55	115.286761	8.263239		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/6/2004	25	8680	120.92	115.284956	5.635044		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/4/2005	26	8770	122.5	115.285533	7.214467		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/8/2005	26	8864	122.61	115.31336	7.29664		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/2/2005	26	8919	121.3	115.312159	5.987841		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	6/30/2005	26	8947	121.02	115.311384	5.708616		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/6/2005	26	8953	120.81	115.311259	5.498741		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/5/2005	26	9044	120.5	115.30945	5.19055		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/7/2006	27	9138	120.42	115.290073	5.129927		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/8/2006	27	9229	121.88	115.109651	6.770349		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/6/2006	27	9318	120.62	115.095943	5.524057		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/12/2006	27	9416	120.07	115.089914	4.980086		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/10/2007	28	9506	122.61	115.084439	7.525561		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/11/2007	28	9597	121.41	115.07332	6.33668		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/10/2007	28	9687	123.9	115.07014	8.82986		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/19/2007	28	9788	120.7	115.067673	5.632327		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/31/2008	29	9892	121.15	115.031049	6.118951		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/11/2008	29	9963	124.31	115.001442	9.308558		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/4/2008	29	10047	120.93	114.998534	5.931466		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/10/2008	29	10145	120.67	114.996921	5.673079		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/8/2009	30	10235	122.28	114.969972	7.310028		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/7/2009	30	10324	122.59	114.793828	7.796172		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/9/2009	30	10417	120.98	114.781226	6.198774		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/6/2009	30	10506	120.81	114.776754	6.033246		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/5/2010	31	10597	123.85	114.777714	9.072286		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/13/2010	31	10695	125.78	114.850425	10.929575		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/3/2010	31	10776	120.61	114.851371	5.758629		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/5/2010	31	10870	120.11	114.850559	5.259441		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	2/1/2011	32	10989	120.32	114.7717	5.5483		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/5/2011	32	11052	120.23	114.706456	5.523544		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/13/2011	32	11151	119.79	114.694187	5.095813		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	8/26/2011	32	11195	119.6	114.691986	4.908014		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	8/31/2011	32	11200	119.55	114.691736	4.858264		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/6/2011	32	11236	119.6	114.69012	4.90988		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/6/2012	33	11328	120.25	114.699665	5.550335		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/12/2012	33	11425	122.35	114.864128	7.485872		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	8/2/2012	33	11537	120.29	114.873533	5.416467		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/2/2012	33	11598	120.88	114.87556	6.00444		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	1/3/2013	34	11691	121.34	114.893853	6.446147		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	4/4/2013	34	11782	121.39	115.313354	6.076646		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	7/2/2013	34	11871	120.53	115.34258	5.18742		77.48	133.48
315743093204601	6979348.83	20006479.9	133	183	481588	283297	1	10/22/2013	34	11983	120.15	115.354891	4.795109		77.48	133.48
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/21/1982	3	567	208.42	220.898339	-12.478339		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	8/19/1982	3	596	208.45	220.89448	-12.44448		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/6/1982	3	644	208.24	220.888852	-12.648852		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	11/18/1982	3	687	208.2	220.885515	-12.685515		94	225

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	12/15/1982	3	714	209.14	220.883419	-11.743419		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/13/1983	4	743	209.26	220.891713	-11.631713		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	3/3/1983	4	792	209.46	220.929996	-11.469996		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/21/1983	4	841	209.02	220.951092	-11.931092		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	6/2/1983	4	883	208.98	220.961186	-11.981186		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/14/1983	4	925	208.3	220.969705	-12.669705		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	8/26/1983	4	968	207.59	220.975355	-13.385355		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	11/10/1983	4	1044	207.39	220.982338	-13.592338		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/6/1984	5	1101	208.07	221.003946	-12.933946		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	2/29/1984	5	1155	208.36	221.225644	-12.865644		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	3/28/1984	5	1183	208.56	221.28818	-12.72818		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	5/2/1984	5	1218	208.33	221.353251	-13.023251		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/4/1984	5	1281	207.6	221.427832	-13.827832		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	8/2/1984	5	1310	207.49	221.447145	-13.957145		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	9/25/1984	5	1364	207.36	221.481915	-14.121915		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	12/13/1984	5	1443	208.03	221.509135	-13.479135		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	2/8/1985	6	1500	207.98	221.361294	-13.381294		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/3/1985	6	1554	208.35	221.23279	-12.88279		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	5/23/1985	6	1604	208.73	221.166366	-12.436366		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/18/1985	6	1660	208.09	221.117598	-13.027598		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	9/10/1985	6	1714	207.4	221.087897	-13.687897		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	12/12/1985	6	1807	208.54	221.05813	-12.51813		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/22/1986	7	1848	209	220.922217	-11.922217		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	3/12/1986	7	1897	209.4	220.664917	-11.264917		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	9/10/1986	7	2079	209.28	220.291965	-11.011965		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	8/19/1987	8	2422	209.84	220.460532	-10.620532		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/4/1988	9	2834	208.9	221.631243	-12.731243		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/11/1989	10	2933	209.32	221.705096	-12.385096		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/6/1989	10	3018	209.91	221.71339	-11.80339		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/27/1989	10	3130	210.15	221.723214	-11.573214		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/3/1989	10	3198	209.81	221.728557	-11.918557		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/4/1990	11	3291	210.1	221.7276	-11.6276		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/24/1990	11	3401	210.72	221.463519	-10.743519		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/26/1990	11	3494	210.23	221.393695	-11.163695		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/24/1990	11	3584	209.86	221.360333	-11.500333		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/3/1991	12	3655	210.4	221.344723	-10.944723		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/20/1991	12	3762	210.45	221.359187	-10.909187		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/18/1991	12	3851	210.74	221.367259	-10.627259		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/4/1991	12	3929	210.24	221.369381	-11.129381		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/4/1992	13	4021	210.75	221.379743	-10.629743		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/1/1992	13	4109	211.15	221.7366	-10.5866		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/2/1992	13	4201	211.28	221.879981	-10.599981		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/7/1992	13	4298	210.36	221.943108	-11.583108		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/6/1993	14	4389	210.96	221.932988	-10.972988		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/8/1993	14	4481	211.44	221.38137	-9.94137		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/8/1993	14	4572	211.16	221.174961	-10.014961		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/6/1993	14	4662	211.23	221.080234	-9.850234		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/5/1994	15	4753	210.84	221.01581	-10.17581		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/8/1994	15	4846	211.01	220.717505	-9.707505		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/6/1994	15	4935	211.23	220.575966	-9.345966		94	225

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/8/1994	15	5029	210.49	220.49483	-10.00483		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/11/1995	16	5124	211.44	220.523467	-9.083467		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/20/1995	16	5223	211.67	221.124995	-9.454995		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/7/1995	16	5301	211.29	221.304367	-10.014367		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/4/1995	16	5390	210.66	221.412904	-10.752904		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/25/1996	17	5503	210.55	221.329155	-10.779155		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	5/15/1996	17	5614	210.37	220.956925	-10.586925		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/17/1996	17	5677	209.91	220.871426	-10.961426		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/12/1996	17	5764	209.85	220.801722	-10.951722		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/31/1997	18	5875	210.46	220.969967	-10.509967		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	5/15/1997	18	5979	211.05	221.364555	-10.314555		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/8/1997	18	6033	211.02	221.461318	-10.441318		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/15/1997	18	6132	210.79	221.552843	-10.762843		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/30/1998	19	6239	210.9	221.518096	-10.618096		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/3/1998	19	6302	211.38	221.409649	-10.029649		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/3/1998	19	6393	210.81	221.337758	-10.527758		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/9/1998	19	6491	210.62	221.304755	-10.684755		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/6/1999	20	6580	210.95	221.314	-10.364		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/2/1999	20	6666	210.49	221.667862	-11.177862		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/10/1999	20	6765	210.1	221.824983	-11.724983		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/5/1999	20	6852	209.92	221.8855	-11.9655		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/6/2000	21	6945	210.14	221.904248	-11.764248		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/4/2000	21	7034	210.54	221.660281	-11.120281		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/6/2000	21	7127	210.34	221.56364	-11.22364		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/3/2000	21	7216	209.37	221.522992	-12.152992		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/17/2001	22	7322	209.99	221.463846	-11.473846		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/4/2001	22	7399	210.25	221.334921	-11.084921		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/6/2001	22	7492	209.93	221.267995	-11.337995		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/4/2001	22	7582	209.75	221.236709	-11.486709		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/8/2002	23	7678	210.06	221.216016	-11.156016		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/18/2002	23	7778	210.51	221.186836	-10.676836		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/16/2002	23	7867	210.07	221.172464	-11.102464		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/5/2002	23	7948	209.31	221.164016	-11.854016		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/9/2003	24	8044	209.73	221.183774	-11.453774		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/22/2003	24	8147	210.3	221.464653	-11.164653		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/2/2003	24	8218	209.98	221.546447	-11.566447		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/16/2003	24	8232	209.94	221.555204	-11.615204		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	8/1/2003	24	8248	209.91	221.565213	-11.655213		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/15/2003	24	8323	209.44	221.605159	-12.165159		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/24/2004	25	8424	209.76	221.587785	-11.827785		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/8/2004	25	8499	209.8	221.484068	-11.684068		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/17/2004	25	8599	210.18	221.425356	-11.245356		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/16/2004	25	8690	210.07	221.402234	-11.332234		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/6/2005	26	8772	210.13	221.390818	-11.260818		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/8/2005	26	8864	211.02	221.376807	-10.356807		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	5/26/2005	26	8912	210.77	221.371783	-10.601783		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	6/24/2005	26	8941	210.58	221.369178	-10.789178		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/13/2005	26	8960	210.18	221.368142	-11.188142		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/5/2005	26	9044	209.67	221.364966	-11.694966		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/18/2006	27	9149	209.59	221.323463	-11.733463		94	225

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/13/2006	27	9234	209.94	221.174214	-11.234214		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/7/2006	27	9319	209.73	221.11114	-11.38114		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/4/2006	27	9408	208.78	221.076669	-12.296669		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/11/2007	28	9507	209.37	221.051675	-11.681675		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	5/18/2007	28	9634	209.89	221.013953	-11.123953		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/19/2007	28	9696	210.12	221.005665	-10.885665		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/19/2007	28	9788	209.29	220.997765	-11.707765		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/31/2008	29	9892	209.56	220.989818	-11.429818		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/17/2008	29	9969	209.98	220.982368	-11.002368		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/8/2008	29	10051	209.32	220.977182	-11.657182		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/10/2008	29	10145	208.27	220.9733	-12.7033		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/15/2009	30	10242	205.98	220.938352	-14.958352		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/15/2009	30	10332	206.72	220.79225	-14.07225		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/9/2009	30	10417	204.36	220.735177	-16.375177		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/6/2009	30	10506	203.08	220.702567	-17.622567		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/14/2010	31	10606	201.92	220.688302	-18.768302		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	3/13/2010	31	10664	202.2	220.710391	-18.510391		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/17/2010	31	10699	202.55	220.717135	-18.167135		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	6/9/2010	31	10752	202.48	220.721968	-18.241968		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/7/2010	31	10780	202.82	220.723971	-17.903971		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/13/2010	31	10878	201.92	220.726756	-18.806756		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/5/2011	32	10962	203.2	220.72114	-17.52114		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/2/2011	32	11049	204.47	220.577288	-16.107288		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/22/2011	32	11160	208.32	220.496941	-12.176941		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/6/2011	32	11236	203.28	220.465372	-17.185372		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/24/2012	33	11346	203.96	220.492777	-16.532777		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/14/2012	33	11427	204.55	220.623365	-16.073365		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	8/2/2012	33	11537	204.92	220.695432	-15.775432		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/2/2012	33	11598	205.27	220.719981	-15.449981		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	1/4/2013	34	11692	205.78	220.758822	-14.978822		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	4/5/2013	34	11783	207.1	221.11197	-14.01197		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	7/19/2013	34	11888	207.18	221.271821	-14.091821		94	225
320153093583601	6783128.577	20020589.19	113	152	1536908	576353	8	10/22/2013	34	11983	207.1	221.341073	-14.241073		94	225
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	8/4/2004	25	8617	287.91	273.187971	14.722029		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	10/27/2011	32	11257	280.58	261.600607	18.979393		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	11/19/2011	32	11280	281.05	261.479001	19.570999		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	1/21/2012	33	11343	282.68	261.322572	21.357428		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	3/1/2012	33	11383	284.81	261.48246	23.32754		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	3/24/2012	33	11406	285.69	261.573444	24.116556		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	4/27/2012	33	11440	285.32	261.706452	23.613548		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	5/25/2012	33	11468	282.54	261.812061	20.727939		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	6/30/2012	33	11504	283.71	261.94739	21.76261		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	7/27/2012	33	11531	282.34	262.040853	20.299147		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	8/28/2012	33	11563	290.94	262.151623	28.788377		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	9/28/2012	33	11594	283.8	262.256049	21.543951		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	10/12/2012	33	11608	284.6	262.298494	22.301506		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	10/26/2012	33	11622	278.74	262.340938	16.399062		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	12/1/2012	33	11658	286.06	262.450081	23.609919		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	12/28/2012	33	11685	286.93	262.531939	24.398061		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	1/29/2013	34	11717	287.23	263.100741	24.129259		85	345

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	2/28/2013	34	11747	287.02	263.685835	23.334165		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	3/30/2013	34	11777	286.24	264.244252	21.995748		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	4/30/2013	34	11808	287.55	264.802276	22.747724		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	6/1/2013	34	11840	285.56	265.34309	20.21691		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	6/28/2013	34	11867	286.01	265.799402	20.210598		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	7/27/2013	34	11896	286.34	266.229222	20.110778		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	8/30/2013	34	11930	283.37	266.731816	16.638184		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	9/28/2013	34	11959	284.89	267.144209	17.745791		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	10/30/2013	34	11991	286.12	267.539518	18.580482		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	11/27/2013	34	12019	286.72	267.885413	18.834587		85	345
320849093505001	6820762.81	20064849.59	109	162	1535137	574706	8	12/31/2013	34	12053	287.3	268.305428	18.994572		85	345
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	1/1/1981	2	1	137.68	145.944103	-8.264103		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	3/4/1981	2	63	137.23	145.674531	-8.444531		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	6/3/1981	2	154	138.3	145.934003	-7.634003		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	9/3/1981	2	246	137.8	145.76162	-7.96162		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	12/9/1981	2	343	136.72	145.426044	-8.706044		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	3/3/1982	3	427	136.64	145.314639	-8.674639		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	6/2/1982	3	518	136.43	145.210013	-8.780013		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	9/1/1982	3	609	136.32	145.160474	-8.840474		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	12/8/1982	3	707	136.06	145.072951	-9.012951		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	3/9/1983	4	798	136.53	145.32136	-8.79136		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	9/7/1983	4	980	136.78	145.455213	-8.675213		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	12/7/1984	5	1437	135.98	146.065515	-10.085515		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	9/23/1985	6	1727	136.32	145.443842	-9.123842		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	10/1/1986	7	2100	136.08	143.973976	-7.893976		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	9/18/1987	8	2452	136.64	144.62581	-7.98581		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	12/14/2006	27	9479	137.57	145.675627	-8.105627		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	8/13/2009	30	10452	136.72	144.737586	-8.017586		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	11/8/2012	33	11635	136.31	144.799165	-8.489165		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	4/5/2013	34	11783	136.7	145.708813	-9.008813		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	7/19/2013	34	11888	137.24	146.062566	-8.822566		86	180
321311093380501	6884774.492	20095045.67	110	175	1596325	623265	9	10/22/2013	34	11983	137.13	146.096254	-8.966254		86	180
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/1/1981	2	1	138.035	143.984391	-5.949391		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/8/1981	2	8	133.42	143.968699	-10.548699		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/5/1981	2	36	133.22	143.905929	-10.685929		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/4/1981	2	63	133.38	143.872158	-10.492158		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/31/1981	2	90	133.29	143.867996	-10.577996		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/6/1981	2	126	132.99	143.8648	-10.8748		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/3/1981	2	154	133.26	143.864406	-10.604406		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/7/1981	2	188	134.02	143.864013	-9.844013		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/4/1981	2	216	133.28	143.863919	-10.583919		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	9/1/1981	2	244	132.59	143.863825	-11.273825		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/14/1981	2	287	132.22	143.863715	-11.643715		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/10/1981	2	314	132.12	143.863667	-11.743667		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	12/9/1981	2	343	131.94	143.863615	-11.923615		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/8/1982	3	373	131.82	143.843609	-12.023609		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/2/1982	3	398	132.27	143.760428	-11.490428		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/3/1982	3	427	132.62	143.697615	-11.077615		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/6/1982	3	461	133.06	143.689044	-10.629044		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/4/1982	3	489	133.72	143.685226	-9.965226		81.42	145.42

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/2/1982	3	518	133.25	143.684582	-10.434582		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/30/1982	3	546	132.22	143.683969	-11.463969		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/4/1982	3	581	133.76	143.683828	-9.923828		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/31/1982	3	608	131.52	143.68372	-12.16372		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/5/1982	3	643	131.12	143.683609	-12.563609		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/3/1982	3	672	131.29	143.683561	-12.393561		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	12/8/1982	3	707	133.19	143.683502	-10.493502		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/4/1983	4	734	136.87	143.688442	-6.818442		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/2/1983	4	763	136.98	143.760673	-6.780673		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/9/1983	4	798	140.2	143.80879	-3.60879		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/6/1983	4	826	139.92	143.814013	-3.894013		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/3/1983	4	853	138.64	143.81681	-5.17681		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/1/1983	4	882	140.46	143.81726	-3.35726		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/6/1983	4	917	138.56	143.817721	-5.257721		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/3/1983	4	945	136.84	143.817798	-6.977798		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	9/7/1983	4	980	135.35	143.817894	-8.467894		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/5/1983	4	1008	134.59	143.817951	-9.227951		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/2/1983	4	1036	134.02	143.817984	-9.797984		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	12/7/1983	4	1071	135.61	143.818025	-8.208025		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/4/1984	5	1099	137.44	143.837164	-6.397164		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/8/1984	5	1134	137.68	144.171567	-6.491567		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/7/1984	5	1162	141.42	144.296604	-2.876604		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/17/1984	5	1203	139.7	144.322103	-4.622103		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/15/1984	5	1231	138.31	144.324587	-6.014587		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/13/1984	5	1260	136.94	144.326029	-7.386029		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/17/1984	5	1294	135.93	144.327033	-8.397033		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/7/1984	5	1315	135.23	144.327295	-9.097295		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	9/12/1984	5	1351	134.11	144.327745	-10.217745		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/1/1984	5	1401	134.92	144.328141	-9.408141		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/17/1984	5	1417	134.8	144.328251	-9.528251		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	12/7/1984	5	1437	135.3	144.328388	-9.028388		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/16/1985	6	1477	135.62	144.189705	-8.569705		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/12/1985	6	1504	137.66	143.939766	-6.279766		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/7/1985	6	1527	138.62	143.864357	-5.244357		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/9/1985	6	1560	139.25	143.845755	-4.595755		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/15/1985	6	1596	138.37	143.838678	-5.468678		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/18/1985	6	1630	135.98	143.83693	-7.85693		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/16/1985	6	1658	135.8	143.836184	-8.036184		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/13/1985	6	1686	134.87	143.835887	-8.965887		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	9/20/1985	6	1724	133.87	143.835483	-9.965483		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/23/1985	6	1757	133.49	143.835306	-10.345306		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/20/1985	6	1785	134.14	143.835166	-9.695166		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	12/18/1985	6	1813	136.73	143.835025	-7.105025		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/15/1986	7	1841	136.12	143.355961	-7.235961		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/19/1986	7	1876	137.56	142.066375	-4.506375		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/12/1986	7	1897	136.94	141.854892	-4.914892		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/8/1986	7	1924	136.26	141.620979	-5.360979		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/30/1986	7	1946	136.94	141.495576	-4.555576		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/4/1986	7	1981	137.64	141.418427	-3.778427		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/1/1986	7	2008	140.09	141.361351	-1.271351		81.42	145.42

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/7/1986	7	2045	136.61	141.341482	-4.731482		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	9/18/1986	7	2087	134.96	141.318927	-6.358927		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/16/1986	7	2115	134.83	141.313546	-6.483546		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/4/1986	7	2134	135.72	141.31108	-5.59108		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	12/4/1986	7	2164	140.33	141.307187	-0.977187		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/6/1987	8	2197	142.07	141.469512	0.600488		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/3/1987	8	2225	142.28	142.632133	-0.352133		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/5/1987	8	2255	144.19	143.387649	0.802351		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/8/1987	8	2289	141.96	143.512667	-1.552667		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/7/1987	8	2318	139.89	143.560211	-3.670211		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/3/1987	8	2345	138.5	143.566154	-5.066154		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/8/1987	8	2380	137.46	143.572141	-6.112141		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/5/1987	8	2408	136.37	143.572627	-7.202627		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	9/1/1987	8	2435	135.56	143.573096	-8.013096		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/8/1987	8	2472	134.5	143.573519	-9.073519		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	11/6/1987	8	2501	134.17	143.573617	-9.403617		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	12/1/1987	8	2526	135.45	143.573701	-8.123701		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/14/1988	9	2570	138.77	143.802977	-5.032977		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/17/1988	9	2604	138.97	144.452286	-5.482286		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/10/1988	9	2626	140.04	144.534494	-4.494494		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/5/1988	9	2652	142.33	144.567404	-2.237404		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/4/1988	9	2681	139.41	144.586513	-5.176513		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/19/1988	9	2696	138.39	144.588011	-6.198011		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/7/1988	9	2715	137.18	144.589908	-7.409908		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/7/1988	9	2745	135.94	144.592278	-8.652278		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/2/1988	9	2771	135.28	144.592957	-9.312957		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	9/7/1988	9	2807	134.77	144.593896	-9.823896		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/4/1988	9	2834	134.1	144.594455	-10.494455		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/21/1989	10	2943	138.35	144.595411	-6.245411		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/23/1989	10	3004	140.07	144.594493	-4.524493		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/21/1989	10	3124	143.14	144.594415	-1.454415		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/24/1989	10	3219	136.34	144.594693	-8.254693		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/12/1990	11	3299	136.94	144.516338	-7.576338		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/18/1990	11	3395	144.49	144.184977	0.305023		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/24/1990	11	3431	143.42	144.182954	-0.762954		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/7/1990	11	3445	144.26	144.182464	0.077536		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/21/1990	11	3459	141.84	144.181973	-2.341973		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/12/1990	11	3480	139.53	144.181571	-4.651571		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/18/1990	11	3578	135.27	144.18086	-8.91086		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/15/1991	12	3667	141.69	144.166529	-2.476529		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/13/1991	12	3755	141.49	144.12611	-2.63611		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/4/1991	12	3807	143.98	144.125824	-0.145824		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/12/1991	12	3845	141.29	144.125777	-2.835777		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/9/1991	12	3934	139.12	144.125743	-5.005743		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/18/1992	13	4035	143.61	144.325426	-0.715426		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/1/1992	13	4109	144.07	144.766059	-0.696059		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/10/1992	13	4118	143.14	144.772242	-1.632242		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/25/1992	13	4224	140.29	144.782444	-4.492444		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/21/1992	13	4251	138.63	144.782807	-6.152807		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/27/1992	13	4257	137.67	144.782888	-7.112888		81.42	145.42

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/17/1992	13	4308	136.22	144.78342	-8.56342		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/26/1993	14	4409	142.81	144.323651	-1.513651		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/7/1993	14	4480	141.97	143.828975	-1.858975		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/22/1993	14	4495	143.36	143.815831	-0.455831		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/8/1993	14	4572	141.34	143.809017	-2.469017		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/14/1993	14	4670	135.92	143.807124	-7.887124		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/11/1994	15	4759	135.81	143.710975	-7.900975		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/5/1994	15	4843	141.15	143.237254	-2.087254		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/27/1994	15	4865	140.33	143.21925	-2.88925		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/30/1994	15	4929	139.9	143.209113	-3.309113		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/4/1994	15	5025	135.95	143.205879	-7.255879		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/4/1995	16	5117	141.52	143.253786	-1.733786		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	3/29/1995	16	5201	143.61	144.472803	-0.862803		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/12/1995	16	5306	139.66	144.518281	-4.858281		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/13/1995	16	5399	135.97	144.520149	-8.550149		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/21/1996	17	5620	136.4	143.743346	-7.343346		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	6/26/1996	17	5656	136.15	143.740653	-7.590653		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/10/1996	17	5762	138.11	143.739034	-5.629034		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/29/1997	18	5873	142.93	143.894528	-0.964528		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/9/1997	18	5943	145.01	144.029016	0.980984		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/7/1997	18	5971	145.35	144.033113	1.316887		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/9/1997	18	6034	141.8	144.035269	-2.235269		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/8/1997	18	6125	137.26	144.036592	-6.776592		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/15/1998	19	6224	144.25	144.044645	0.205355		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/9/1998	19	6308	143.02	144.059394	-1.039394		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/16/1998	19	6315	142.56	144.05932	-1.49932		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/8/1998	19	6398	137.83	144.05866	-6.22866		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/8/1998	19	6490	136.41	144.058254	-7.648254		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	1/14/1999	20	6588	142.42	144.210644	-1.790644		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/7/1999	20	6671	145.4	144.714526	0.685474		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/14/1999	20	6678	144.14	144.719499	-0.579499		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/23/1999	20	6778	139.07	144.727652	-5.657652		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/14/1999	20	6861	136.08	144.728565	-8.648565		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/2/2000	21	6972	136.42	144.504727	-8.084727		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/6/2000	21	7036	141.57	144.356894	-2.786894		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/19/2000	21	7049	141.67	144.352063	-2.682063		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	7/12/2000	21	7133	138.83	144.349931	-5.519931		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	2/18/2010	31	10641	143.8	141.721804	2.078196		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	5/29/2012	33	11472	137.96	142.683725	-4.723725		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/25/2012	33	11621	135.22	142.704883	-7.484883		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	4/20/2013	34	11798	140.29	144.221223	-3.931223		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	8/6/2013	34	11906	136.93	144.23116	-7.30116		81.42	145.42
321743093354201	6895421.913	20123249.17	106	180	368906	228473	1	10/22/2013	34	11983	136.74	144.232338	-7.492338		81.42	145.42
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/1/1981	2	1	165.563846	175.899587	-10.335741		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/9/1981	2	9	161.79	175.835163	-14.045163		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/5/1981	2	36	161.27	175.617734	-14.347734		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/5/1981	2	64	161.14	175.472349	-14.332349		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/27/1981	2	86	161.17	175.422719	-14.252719		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/7/1981	2	127	160.64	175.360613	-14.720613		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/4/1981	2	155	162.12	175.345252	-13.225252		96.47	182.47

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/9/1981	2	190	163.5	175.330386	-11.830386		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/4/1981	2	216	162.99	175.327423	-12.337423		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/2/1981	2	245	161.94	175.324119	-13.384119		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/17/1981	2	260	161.6	175.322409	-13.722409		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/14/1981	2	287	161.03	175.32138	-14.29138		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	11/11/1981	2	315	162.77	175.320797	-12.550797		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	12/10/1981	2	344	162.57	175.320193	-12.750193		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/7/1982	3	372	161.57	175.298579	-13.728579		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/3/1982	3	399	161.42	175.184452	-13.764452		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/4/1982	3	428	162.84	175.0969	-12.2569		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/8/1982	3	463	162.71	175.051542	-12.341542		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/5/1982	3	490	162.11	175.031189	-12.921189		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/3/1982	3	519	163.49	175.021733	-11.531733		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/30/1982	3	546	165.16	175.013047	-9.853047		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/4/1982	3	581	164.47	175.010571	-10.540571		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/1/1982	3	609	163.25	175.008591	-11.758591		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/16/1982	3	624	162.68	175.00753	-12.32753		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/6/1982	3	644	162.01	175.006897	-12.996897		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	11/3/1982	3	672	161.31	175.006513	-13.696513		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	12/8/1982	3	707	162.2	175.006033	-12.806033		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/5/1983	4	735	164.29	175.024232	-10.734232		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/3/1983	4	764	164.12	175.203466	-11.083466		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/10/1983	4	799	166.75	175.34271	-8.59271		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/7/1983	4	827	166.64	175.395548	-8.755548		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/3/1983	4	853	165.52	175.425958	-9.905958		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/2/1983	4	883	167.51	175.439829	-7.929829		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/7/1983	4	918	165.93	175.453275	-9.523275		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/3/1983	4	945	165.32	175.455857	-10.135857		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/8/1983	4	981	163.77	175.459299	-11.689299		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/5/1983	4	1008	162.87	175.460883	-12.590883		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	11/3/1983	4	1037	162.49	175.46138	-12.97138		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	12/8/1983	4	1072	162.75	175.461979	-12.711979		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/6/1984	5	1101	163.01	175.587331	-12.577331		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/9/1984	5	1135	162.26	176.649192	-14.389192		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/7/1984	5	1162	163.82	177.138693	-13.318693		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/21/1984	5	1176	164.55	177.265464	-12.715464		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/17/1984	5	1203	165.6	177.50995	-11.90995		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/16/1984	5	1232	165.92	177.574518	-11.654518		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/13/1984	5	1260	164.52	177.623403	-13.103403		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/17/1984	5	1294	163.36	177.65544	-14.29544		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/9/1984	5	1317	162.81	177.661558	-14.851558		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/13/1984	5	1352	162.01	177.670868	-15.660868		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/31/1984	5	1400	164.97	177.674543	-12.704543		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	11/16/1984	5	1416	166.55	177.675135	-11.125135		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	12/6/1984	5	1436	168.03	177.675875	-9.645875		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/17/1985	6	1478	169.47	177.165373	-7.695373		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/13/1985	6	1505	169.22	176.302278	-7.082278		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/8/1985	6	1528	171.54	175.978256	-4.438256		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/11/1985	6	1562	171.77	175.722758	-3.952758		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/16/1985	6	1597	172.64	175.617531	-2.977531		96.47	182.47

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/19/1985	6	1631	170.66	175.562228	-4.902228		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/17/1985	6	1659	168.17	175.540185	-7.370185		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/14/1985	6	1687	166.29	175.53125	-9.24125		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/19/1985	6	1723	164.57	175.519763	-10.949763		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/23/1985	6	1757	163.48	175.517044	-12.037044		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	11/21/1985	6	1786	164.27	175.5154	-11.2454		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	12/19/1985	6	1814	167.5	175.513812	-8.013812		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/16/1986	7	1842	166.02	174.936943	-8.916943		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/20/1986	7	1877	166.58	173.496755	-6.916755		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/13/1986	7	1898	165.7	173.201008	-7.501008		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/10/1986	7	1926	164.78	172.808436	-8.028436		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/1/1986	7	1947	166.71	172.622909	-5.912909		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/5/1986	7	1982	167.84	172.47579	-4.63579		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/2/1986	7	2009	173.81	172.369957	1.440043		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/7/1986	7	2045	167.29	172.330575	-5.040575		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/18/1986	7	2087	164.87	172.28463	-7.41463		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/17/1986	7	2116	164.35	172.273455	-7.923455		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	11/5/1986	7	2135	164.61	172.268473	-7.658473		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	12/5/1986	7	2165	167.95	172.260607	-4.310607		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/7/1987	8	2198	171.08	172.357676	-1.277676		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/5/1987	8	2227	170.36	172.96326	-2.60326		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/6/1987	8	2256	175.89	173.37698	2.51302		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/9/1987	8	2290	171.84	173.619398	-1.779398		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/6/1987	8	2317	168.12	173.729822	-5.609822		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/3/1987	8	2345	167.67	173.786644	-6.116644		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/8/1987	8	2380	167.94	173.844622	-5.904622		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/6/1987	8	2409	165.95	173.858759	-7.908759		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/3/1987	8	2437	164.6	173.872409	-9.272409		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/7/1987	8	2471	163.57	173.883292	-10.313292		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	11/6/1987	8	2501	162.84	173.886305	-11.046305		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	12/2/1987	8	2527	164.15	173.888916	-9.738916		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/14/1988	9	2570	168.92	174.705704	-5.785704		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	2/18/1988	9	2605	168.74	177.078921	-8.338921		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/11/1988	9	2627	170.65	177.693854	-7.043854		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/6/1988	9	2653	173.5	178.314196	-4.814196		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/5/1988	9	2682	169.63	178.691264	-9.061264		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/8/1988	9	2716	166.3	178.837288	-12.537288		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/8/1988	9	2746	164.84	178.930825	-14.090825		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/3/1988	9	2772	164.07	178.945484	-14.875484		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	9/8/1988	9	2808	163.16	178.965782	-15.805782		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/5/1988	9	2835	162.61	178.974231	-16.364231		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/24/1989	10	2946	163.67	178.823355	-15.153355		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/24/1989	10	3005	167.37	178.598715	-11.228715		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/21/1989	10	3124	175.4	178.545593	-3.145593		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/24/1989	10	3219	165.29	178.543585	-13.253585		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/13/1990	11	3300	162.86	178.230891	-15.370891		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/11/1990	11	3388	177.03	176.88251	0.14749		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/26/1990	11	3433	176.97	176.797375	0.172625		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/8/1990	11	3446	177.54	176.783906	0.756094		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/13/1990	11	3451	176.92	176.778726	0.141274		96.47	182.47

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/22/1990	11	3460	175.41	176.769401	-1.359401		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/13/1990	11	3481	171.17	176.759226	-5.589226		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/19/1990	11	3579	165.54	176.745962	-11.205962		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/11/1991	12	3663	168.52	176.768561	-8.248561		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/18/1991	12	3760	176.2	176.934038	-0.734038		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/1/1991	12	3804	175.65	176.944197	-1.294197		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/11/1991	12	3844	170.3	176.950175	-6.650175		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/8/1991	12	3933	165.48	176.952503	-11.472503		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/24/1992	13	4041	175.43	178.017822	-2.587822		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/4/1992	13	4112	174.14	179.820902	-5.680902		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/9/1992	13	4117	173.24	179.877066	-6.637066		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/28/1992	13	4227	168.82	180.099899	-11.279899		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/15/1992	13	4306	165.22	180.109932	-14.889932		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/23/1993	14	4406	169.87	178.482231	-8.612231		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/6/1993	14	4479	172.71	175.880194	-3.170194		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/30/1994	15	4868	166.27	173.532213	-7.262213		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/18/1995	16	5404	164.47	178.614845	-14.144845		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/19/1996	17	5497	162.5	177.629249	-15.129249		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/12/1996	17	5581	161.57	175.108279	-13.538279		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/9/1996	17	5761	162.76	174.759472	-11.999472		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/28/1997	18	5872	171.9	176.045495	-4.145495		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/8/1997	18	5942	179.5	177.821809	1.678191		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	6/4/1997	18	5999	173.73	178.112655	-4.382655		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/8/1997	18	6033	170.8	178.183819	-7.383819		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/7/1997	18	6124	164.8	178.212467	-13.412467		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/13/1998	19	6222	171.94	177.911268	-5.971268		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/9/1998	19	6308	175.29	176.85173	-1.56173		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/15/1998	19	6314	173.77	176.841196	-3.071196		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/7/1998	19	6397	165.5	176.767691	-11.267691		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/6/1998	19	6488	163.16	176.757933	-13.597933		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/12/1999	20	6586	172.97	177.196956	-4.226956		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/7/1999	20	6671	176.36	179.406603	-3.046603		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/15/1999	20	6679	175.08	179.491989	-4.411989		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/24/1999	20	6779	168.05	179.662555	-11.612555		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/13/1999	20	6860	164.02	179.675923	-15.655923		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/26/2000	21	6965	162.42	179.018754	-16.598754		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/6/2000	21	7036	164.97	178.139461	-13.169461		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/20/2000	21	7050	166.36	178.085092	-11.725092		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/12/2000	21	7133	168.34	178.03492	-9.69492		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/18/2002	23	7778	177.37	176.264353	1.105647		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/10/2002	23	7861	166.82	176.254637	-9.434637		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/2/2002	23	7945	164	176.253171	-12.253171		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/3/2003	24	8038	167.43	176.282651	-8.852651		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/18/2003	24	8143	169.55	178.179334	-8.629334		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/2/2003	24	8218	165.44	178.292291	-12.852291		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/16/2003	24	8232	165.02	178.294925	-13.274925		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	8/1/2003	24	8248	164.46	178.297935	-13.837935		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/4/2003	24	8312	162.89	178.308045	-15.418045		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/9/2004	25	8409	161.45	178.18785	-16.73785		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/7/2004	25	8498	165.55	177.279984	-11.729984		96.47	182.47

Appendix B Model Target List with Residuals

Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/2/2004	25	8584	174.58	177.190057	-2.610057		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/8/2004	25	8682	164.79	177.181417	-12.391417		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/4/2005	26	8770	172.05	177.169385	-5.119385		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/5/2005	26	8861	169.59	176.956307	-7.366307		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	5/24/2005	26	8910	167.39	176.934316	-9.544316		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/2/2005	26	8949	165.36	176.926826	-11.566826		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/4/2005	26	9043	163.07	176.924038	-13.854038		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/7/2006	27	9138	161.69	176.834717	-15.144717		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/7/2006	27	9228	164.34	175.839314	-11.499314		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/4/2006	27	9316	162.93	175.707626	-12.777626		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/3/2006	27	9407	161.3	175.691432	-14.391432		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/11/2007	28	9507	161.9	175.671029	-13.771029		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/11/2007	28	9597	164.54	175.568464	-11.028464		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/11/2007	28	9688	168.26	175.555297	-7.295297		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/12/2007	28	9781	165.75	175.553591	-9.803591		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/4/2008	29	9865	165.19	175.551949	-10.361949		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	3/25/2008	29	9946	170.37	175.510633	-5.140633		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/4/2008	29	9956	170.6	175.507905	-4.907905		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/9/2008	29	10052	166.19	175.4978	-9.3078		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/10/2008	29	10145	163.5	175.496154	-11.996154		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/30/2009	30	10257	163.27	175.056385	-11.786385		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/17/2009	30	10334	165.12	174.484953	-9.364953		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/9/2009	30	10417	167.48	174.384805	-6.904805		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/15/2009	30	10515	177.96	174.362222	3.597778		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	1/14/2010	31	10606	174.67	174.406904	0.263096		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/15/2010	31	10697	172.6	174.629963	-2.029963		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/7/2010	31	10780	165.7	174.661509	-8.961509		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/13/2010	31	10878	162.98	174.667792	-11.687792		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/2/2012	33	11598	160.03	174.887686	-14.857686		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	4/20/2013	34	11798	161.2	177.111088	-15.911088		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	7/19/2013	34	11888	160.44	177.261082	-16.821082		96.47	182.47
324207093484801	6819913.435	20267426.86	75	181	247845	146338	1	10/23/2013	34	11984	158.59	177.284965	-18.694965		96.47	182.47
325805093594001	6759124.366	20361216.06	54	179	1510340	557371	8	10/2/2012	33	11598	173.65	175.920494	-2.270494		-435	225
325805093594001	6759124.366	20361216.06	54	179	1510340	557371	8	4/23/2013	34	11801	174.69	177.804918	-3.114918		-435	225
325805093594001	6759124.366	20361216.06	54	179	1510340	557371	8	8/23/2013	34	11923	175.55	178.578961	-3.028961		-435	225
325805093594001	6759124.366	20361216.06	54	179	1510340	557371	8	10/25/2013	34	11986	175.75	178.762005	-3.012005		-435	225
3525604_49678	6494961.821	20197941.25	57	120	1425684	510144	7	7/26/2006	27	9338	195	214.037892	-19.037892	-352	-369	433
3525605_49679	6496360.939	20199120.85	57	121	1511221	557761	8	7/20/2006	27	9332	199	214.29553	-15.29553	-358	-371	411
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	1/1/1981	2	1	168	219.248791	-51.248791	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/19/1982	3	688	187.19	214.205284	-27.015284	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/3/1984	5	1403	196.2	220.17395	-23.97395	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	5/22/1986	7	1968	204.65	227.374743	-22.724743	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/12/1987	8	2507	209.2	228.644116	-19.444116	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	12/8/1988	9	2899	201.2	225.469114	-24.269114	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	10/14/1989	10	3209	215.33	231.837079	-16.507079	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/14/1990	11	3605	211.78	228.037188	-16.257188	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	12/10/1991	12	3996	200.45	216.208356	-15.758356	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/18/1992	13	4340	204.9	214.301045	-9.401045	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	3/24/1993	14	4466	208.95	217.634772	-8.684772	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	12/15/1993	14	4732	204.4	214.506117	-10.106117	-116	-126	312

Appendix B Model Target List with Residuals



Name	X	Y	Row	Column	Global Node	Active Node	Layer	Date	SP	Time	Observed	Computed	Residual	Screen Bottom msl	Estimated WellDepth msl	Ground Surface Elevation msl
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/16/1995	16	5433	209.5	215.237213	-5.737213	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/22/1996	17	5805	197.22	202.267146	-5.047146	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/10/1999	20	6888	201.5	219.929826	-18.429826	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/10/2000	21	7254	201.18	216.035149	-14.855149	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/7/2001	22	7616	211.4	216.573698	-5.173698	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/14/2002	23	7988	211.18	188.800687	22.379313	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/12/2003	24	8351	212.25	193.651251	18.598749	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	12/2/2004	25	8737	212.8	213.719955	-0.919955	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/15/2006	27	9450	209.46	228.907399	-19.447399	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/15/2007	28	9815	204.48	229.067427	-24.587427	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/20/2009	30	10551	201.49	227.999763	-26.509763	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/17/2010	31	10913	199.08	225.737663	-26.657663	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/9/2012	33	11636	200.02	224.931278	-24.911278	-116	-126	312
3544601_49674	6612500.587	20114873.4	81	132	1586715	614910	9	11/14/2013	34	12006	196.5	226.672332	-30.172332	-116	-126	312
3544607_49676	6615801.348	20110576.52	82	132	1587165	615329	9	5/1/1991	12	3773	183	206.873453	-23.873453	-247	-363	260
3544607_49676	6615801.348	20110576.52	82	132	1587165	615329	9	4/24/2002	23	7784	175.4	179.748718	-4.348718	-247	-363	260
3544608_49677	6612666.675	20114983	81	132	1586715	614910	9	4/8/2004	25	8499	201	201.593688	-0.593688	-139	-139	301
3545707_49672	6626130.601	20102980.2	84	133	1587964	615977	9	4/27/1990	11	3404	191	219.759569	-28.759569	-224	-289	271
3545707_49672	6626130.601	20102980.2	84	133	1587964	615977	9	4/20/2006	27	9241	185.15	217.217236	-32.067236	-224	-289	271
3811605_51535	6265151.859	19910104.82	83	56	1522199	564950	8	12/7/1987	8	2532	276	252.439193	23.560807	-969	-1006	651