



**TEXAS DEPARTMENT OF WATER RESOURCES**

**REPORT 285**

**RECORDS OF WELLS, DRILLERS' LOGS, WATER-LEVEL  
MEASUREMENTS, AND CHEMICAL ANALYSES OF  
GROUND WATER IN HARRIS AND GALVESTON  
COUNTIES, TEXAS, 1975-79**

By

Karl W. Ratzlaff, C. W. Bonnet, and L. S. Coplin  
U.S. Geological Survey

This report was prepared by the U.S. Geological Survey under cooperative agreement with the Texas Department of Water Resources and the Cities of Houston and Galveston

March 1984

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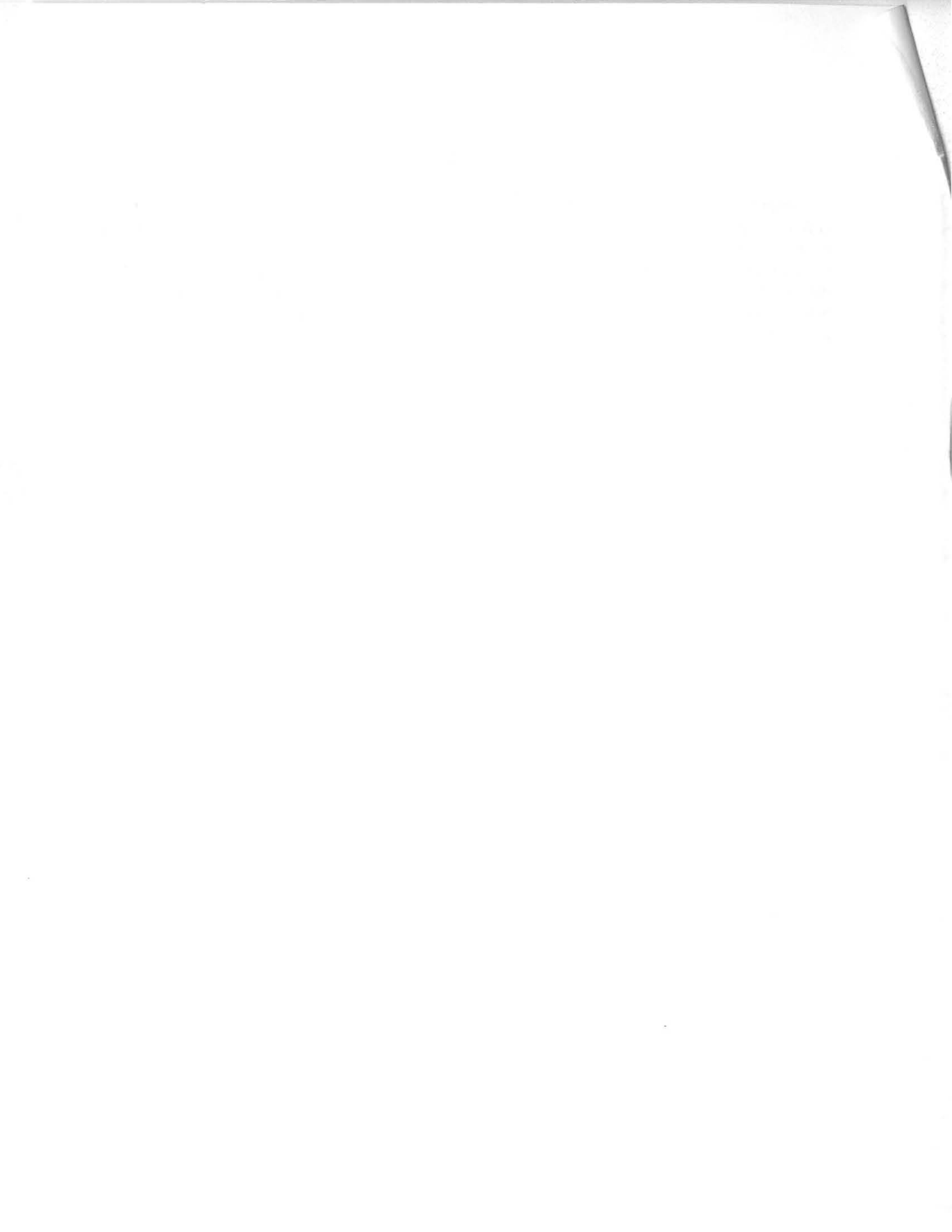
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## **ABSTRACT**

Information on major new water wells in Harris and Galveston Counties was compiled by the U.S. Geological Survey from 1975 to 1979. This report presents the results of the hydrologic data collection on new large-capacity and other selected wells, including well location and completion data, drillers' logs of the strata penetrated, water levels, and chemical quality of the produced water. These water-well data are supplementary to similar data on older wells in these counties and descriptive evaluations of the ground-water resources which have been published previously.



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**INTRODUCTION**

The collection of hydrologic data in Harris and Galveston Counties, Texas, was begun by the U.S. Geological Survey in Harris County in 1929 and in Galveston County in 1938. The current data-collection program is in cooperation with the Texas Department of Water Resources and the City of Houston. The City of Galveston participated in the program during the first 3 years of this reporting period.

The data-collection program consists of an inventory of new large-capacity and other selected wells, the collection of water samples from wells for chemical analyses, an inventory of ground-water pumpage, water-level measurements in observation wells, and a compilation of information on land-surface subsidence.

This report presents records of wells, drillers' logs, water-level measurements, and chemical analyses of ground water collected during 1975-79 (Tables 1-8). Additional information on the geology and hydrology of the area may be found in publications listed in "Selected References."

Most of the chemical analyses presented in this report were determined in the laboratories of the Geological Survey, but some data were obtained from commercial analyses. Dissolved orthophosphorus (P), dissolved solids (sum of constituents), and hardness (Ca, Mg) were recalculated from commercial analyses to correspond to Geological Survey reporting methods.

## METRIC CONVERSIONS

The "inch-pound" units used in this report may be converted to metric units by the following conversion factors:

<u>From</u>	<u>Multiply by</u>	<u>To obtain</u>
feet	0.3048	meters (m)
gallons per minute (gal/min)	.06309	liters per second (l/s)
inches	2.54	centimeters (cm)

## WELL-NUMBERING SYSTEM

The well-numbering system used in this report was devised by the Texas Department of Water Resources for use throughout the State. Under this system, each 1-degree quadrangle is given a number consisting of two digits. These are the first two digits in the well number. Each 1-degree quadrangle is divided into 7½-minute quadrangles which are given two-digit numbers from 01 to 64. These are the third and fourth digits of the well number. Each 7½-minute quadrangle is divided into 2½-minute quadrangles which are given a single-digit number from 1 to 9. This is the fifth digit of the well number. Finally, each well within a 2½-minute quadrangle is given a two-digit number in the order in which it was inventoried, starting with 01. These are the last two digits of the well number.

On the well-location maps (Figures 1 and 2), only the last three digits of the well number are shown at each well location, the second two digits are shown in the northwest corner of each 7½-minute quadrangle, and the first two digits are shown by the large block numerals 60, 64, and 65.

In addition to the seven-digit well number, a two-letter prefix is used to identify the county. The prefix for Harris County is LJ and for Galveston, KH.



## SELECTED REFERENCES

- Gabrysch, R. K., 1980, Development of ground water in the Houston district, Texas, 1970-74: Texas Dept. Water Resources Rept. 241, 49 p., 22 figs.
- Naftel, W. L., Vaught, Kenneth, and Fleming, Bobbie, 1976, Records of wells, drillers' logs, water-level measurements, and chemical analyses of ground water in Harris and Galveston Counties, Texas, 1970-74: Texas Water Devel. Board Report 203, 171 p., 2 figs.
- Ratzlaff, K. W., 1982, Land-surface subsidence in the Texas coastal region: Texas Dept. Water Resources Rept. 272, 26 p., 8 figs.

Table 1.--Records of Wells in Harris County

Water Levels : Reported water levels given in feet; measured water levels given in feet and tenths.  
 Methods of lift and type of power: E, electric; Ng, natural gas; Sub, submersible; T, turbine; S, rotary; J, jet; N, none. Number indicates horsepower.  
 Use of water : D, domestic; Ind, industrial; P, public supply; S, livestock; Irr, irrigation; Rec, recreational; N, none.  
 Water-bearing unit : C, Chicot aquifer; CU, Upper unit of Chicot aquifer; CL, Lower unit of Chicot aquifer; E, Evangeline aquifer.

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement		
LJ-60-38-811	Northwest Freeway Municipal Utility District	B. J. Swinehart Co., Inc.	1978	755	8	396	E	196	91	Mar. 20, 1978	P	100 feet of screen between 396 and 696 feet. Reported yield of 397 gal/min with 44 feet drawdown when drilled. J
59-101	Johnny Clepper	Schoppa Mater Well Service	1978	343	6	755	C	234	60	Sept. 26, 1978	P	Screen from 325 to 343 feet. J
* 314	D. W. Cundiff	C. A. Raymond Jr.	1975	604	4	343	C, E	229	--	--	D	35 feet of screen between 330 and 604 feet.
* 315	do	H. W. Mossberger	1973	200	4	200	C	229	80	Dec. 5, 1973	D	Screen from 180 to 200 feet.
* 316	Louis Kimich	Doyle's Water Well Service	1974	180	4	180	C	211	--	--	D	Screen from 170 to 180 feet.
* 317	C. T. Richardson, Jr.	H. N. Mossberger	1973	186	2	186	C	215	80	Dec. 7, 1973	D	Screen from 176 to 186 feet.
* 318	Ralph Nuehner	Doyle's Water Well Service	1972	257	2	257	C	235	--	--	--	Screen from 247 to 257 feet.
* 319	Phillip Benson	Busseil and Son, Inc.	1972	224	4	190	C	229	86	July 7, 1972	D	Screen from 214 to 224 feet.
* 320	Ronald Taylor	do	1975	210	--	224	C	214	71.1	Sept. 23, 1975	D	Screen from 200 to 210 feet.
* 321	Robert A. Taylor	do	1975	210	--	--	C	209	--	--	D	Screen from 200 to 210 feet. Water has hydrogen sulfide odor.
* 322	C. T. Richardson	H. W. Mossberger	1974	210	--	--	C	220	--	--	D	Screen from 214 to 224 feet.
606	Exxon Tomball	--	1949	302	8	--	C	170	--	--	Ind	Screen from 200 to 210 feet.
607	do	--	1969	546	8	546	E	172	--	--	Ind	58 feet of screen between 390 and 546 feet.
608	Exxon, USA	Davis Water Well Service	1977	497	8	340	E	172	108	July 9, 1977	Ind	42 feet of screen between 409 and 497 feet.
60-203	Dowdell Public Utility District	Texas Water Wells, Inc.	1975	1,022	10	1,022	E	132	134	Mar. 1975	P	211 feet of screen between 491 and 1,021 feet. Reported yield 1,000 gal/min with 90 feet drawdown when drilled. J
* 204	Harris County Municipal Utility District No. 1	Layne-Texas Co.	1975	875	16	510	E	145	125	July 18, 1975	P	170 feet of screen between 520 and 860 feet. Reported yield 1,104 gal/min with 96 feet drawdown when drilled. J
503	Cullen-Marshall Trust	--	1966	385	4	385	CL	146	--	--	S	Screen from 380 to 384 feet.
706	Low Water Systems	Low Water Wells	1973	410	4	390	C	145	94	Sept. 30, 1973	P	Screen from 390 to 410 feet.
707	Northwest Harris County Municipal Utility District No. 5	Layne-Western Co., Inc.	1977	1,071	16	715	E	141	163	Apr. 1977	P	Screen in interval 727 to 1,061 feet. Test hole drilled to 1,145 feet.
708	Cullen-Marshall Trust	--	1955	90	3	--	C	--	16	1974	D or S	5 feet of screen between 55 and 90 feet.
709	Faulkley Gully Municipal Utility District	Layne-Western Co., Inc.	1978	1,112	16	560	E(?)	139	191	Aug. 1978	P	Screen in interval 564 to 1,012 feet. Reported yield 1,319 gal/min with 263 feet drawdown. Test hole drilled to 1,515 feet. J

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Altitude of land surface (ft)	Below land-surface datum (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Water bearing unit	Altitude of land surface (ft)			
LI-60-60-806	Charterwood Municipal Utility District	Texas Water Wells, Inc.	1974	580	8	580	C,E	140	134	Feb. 25, 1974	T,E	P	90 feet of screen between 406 and 562 feet.
807	Cleannock Farms	B. J. Swinehart Co., Inc.	1974	546	9 6	334 511	C,E	146	125	Sept. 1974	--	N	57 feet of screen between 356 and 511 feet. $\bar{y}$
911	Kleinwood Utility District	Layne-Texas Co.	1973	1,005	16 10	520 1,005	E	125	140	Feb. 1, 1974	T,E 150	P	200 feet of screen between 530 and 990 feet. Reported yield 1,023 gal/min with 78 feet draw-down when drilled. Test hole drilled to 1,264 feet. $\bar{y}$
* 912	Harris County Municipal Utility District No. 24	do	1975	1,103	18 12	840 1,100	E	130	172	June 11, 1975	T,E	P	200 feet of screen between 850 and 1,085 feet. Reported yield 1,230 gal/min with 111 feet draw-down when drilled. $\bar{y}$
* 913	Cypress-Klein Utility District	do	1973	1,100	16 10	850 1,100	E	124	155	Oct. 15, 1973	T,E 50	P	177 feet of screen between 860 and 1,082 feet. Reported yield 1,001 gal/min with 97 feet draw-down when drilled. $\bar{y}$
* 61-102	En Ganto Real Utility District	do	1973	585	18 12 10	360 290 585	E	131	112	Nov. 9, 1973	T,E	P	130 feet of screen between 370 and 370 feet. Reported yield 805 gal/min with 84 feet draw-down when drilled. Test hole drilled to 1,309 feet. $\bar{y}$
211	Texas Nursery Co., Inc.	--	1965	225	4	225	C	--	--	--	Sub,E	Irr	Screen from 200 to 220 feet.
212	do	Hildebrandt Well Service	1970	306	4	306	C	--	--	--	Sub,E	Irr	Screen from 286 to 306 feet.
522	T. D. Gardner	Bussell and Son, Inc.	1974	280	4 2	260 280	C	118	120	Feb. 14, 1974	Sub,E 5	P	Screen from 260 to 280 feet.
523	do	do	1975	554	8 5	345 554	E,C?	116	117	May 28, 1975	--	P	$\bar{y}$
* 524	Northland Shopping Center	Layne-Texas Co.	1976	422	8 4	335 422	C	123	125	Jan. 28, 1976	Sub,E	D	50 feet of screen between 343 and 410 feet. Reported yield 194 gal/min with 31 feet draw-down when drilled. Test hole drilled to 458 feet. $\bar{y}$
* 525	Harris County WC and ID No. 99, well 2	do	1978	1,170	16 10	660 1,170	E	105	193	May 15, 1978	T,E 125	P	200 feet of screen between 670 and 1,155 feet. Reported yield 1,022 gal/min with 84 feet draw-down when drilled. Test hole drilled to 1,250 feet. $\bar{y}$
* 526	Harris County WC and ID No. 110	do	1978	700	20 12	330 700	E	98	157	Oct. 2, 1978	T,E	P	175 feet of screen between 340 and 680 feet. Reported yield 1,043 gal/min with 82 feet draw-down when drilled. $\bar{y}$
* 611	Harris County Municipal Utility District No. 82	do	1973	1,157	16 10	842 1,157	E	107	137	Dec. 27, 1973	T,E	P	167 feet of screen between 852 and 1,145 feet. Reported yield 1,012 gal/min with 136 feet draw-down when drilled. $\bar{y}$
612	Harris County Sanitation Co., Inc.	--	1970	520	6	--	C,E	102	--	--	Sub,E 10	D	Screen in interval 382 to 520 feet.
613	Timber Lane Utility District	Layne-Western Co., Inc.	1979	590	20 12	390 590	E	110	166.5	Mar. 20, 1979	T,E	P	Screen in interval 390 to 590 feet. Reported yield 1,471 gal/min with 92 feet drawdown when drilled. Test hole drilled to 1,205 feet. $\bar{y}$

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diam-eter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
* LJ-60-61-715	Louetta Road Utility District	Layne-Texas Co.	1974	1,063	16 10	663 1,063	E	124	184	May 31, 1974	T,E	P	200 feet of screen between 673 and 1,050 feet. Reported yield 1,007 gal/min with 82 feet draw-down when drilled. <u>y</u>
* 717	Klein Public Utility District	do	1977	1,185	16 10	890 1,185	E	117	201	Oct. 7, 1977	T,E	P	175 feet of screen between 900 feet and 1,170 feet. Reported yield 1,012 gal/min with 92 feet drawdown when drilled. <u>y</u>
* 718	Ponderosa Forest Utility District	Layne-Texas Co.	1977	1,211	18 12	698 1,211	E	98	202.29	Feb. 1, 1978	T,E	P	246 feet of screen between 711 and 1,189 feet. Reported yield 1,168 gal/min with 104 feet draw-down when drilled. Test hole drilled to 1,250 feet. <u>y</u>
* 827	C.N.P. Utility District	do	1976	1,143	16 10	660 1,143	E	112	186	Jul. 23, 1976	E	P	210 feet of screen between 670 and 1,130 feet. Reported yield 1,022 gal/min with 83 feet draw-down when drilled. Test hole drilled to 1,350 feet. <u>y</u>
828	Weingarten Realty, Inc.	do	1967	315	4	315	C	117	--	--	Sub,E 1 1/2	P	Screen from 300 to 315 feet.
829	do	do	1965	220	4	220	C	116	193	1965	Sub,E 1 1/2	P	Screen from 200 to 220 feet.
830	do	do	1966	307	4	307	C	118	--	--	Sub,E 1	P	Screen from 291 to 307 feet.
831	Harris County Municipal Utility District No. 58	Layne-Western Co., Inc.	1978	1,094	16 10	704 1,094	E	116	229	June 1978	T,E	P	Screen in interval 714 to 1,084 feet. Reported yield 1,060 gal/min with 69 feet drawdown when drilled. Test hole drilled to 1,083 feet. <u>y</u>
* 832	North Park Utility District	Layne-Texas Co.	1978	1,250	16 10	920 1,250	E	112	240	May 31, 1979	T,E	P	191 feet of screen between 929 and 1,230 feet. Reported yield 1,016 gal/min with 42 feet draw-down when drilled. <u>y</u>
912	Inverness Forest	Lanford Drilling Co.	1972	1,152	16 10	946 1,152	E	100	150	Aug. 3, 1972	T,E	P	123 feet of screen between 947 and 1,147 feet. Reported yield 1,001 gal/min with 100 feet drawdown when drilled.
913	Memorial Hills Utility District	Layne-Western Co., Inc.	1975	647	14 8	436 647	E,C	98	156	Mar. 1975	T,E	P	Screen in interval 439 to 634 feet. Reported yield 1,000 gal/min with 274 feet drawdown when drilled. <u>y</u>
* 62-403	Harris County Municipal Utility District No. 43	Layne-Texas Co.	1975	615	20 14 12	610 307 615	E,CL	103	147	Nov. 18, 1975	T,E	P	130 feet of screen between 420 and 600 feet. Reported yield 1,012 gal/min with 35 feet draw-down when drilled. Test hole drilled to 1,100 feet. <u>y</u>
711	Taylor Road Utility District	Layne-Western Co., Inc.	1974	898	20 12	513 898	E	90	146	Nov. 1974	T,E	P	Screen in interval 603 to 888 feet. Reported yield 1,486 gal/min with 232 feet drawdown when drilled. Test hole drilled to 1,149 feet. <u>y</u>
* 803	Hunters Glen Municipal Utility District	Layne-Texas Co.	1975	815	16 10	590 815	E	95	179	May 29, 1975	E	P	142 feet screen between 600 and 800 feet. Reported yield 1,045 gal/min with 77 feet draw-down when drilled. Test hole drilled to 1,150 feet. <u>y</u>
907	Harris County WC and ID No. 140	Layne-Western Co., Inc.	1978	538	10 6	396 538	E	70	104	June 1978	T,E	P	Screen in interval 402 to 528 feet. Reported yield 254 gal/min with 130 feet drawdown when drilled. Test hole drilled to 601 feet. <u>y</u>
63-406	Kingswood	Con-Texas Water Well Co.	1973	811	6 4	296 811	E	70	74	July 3, 1973	T,E	D	Screen in interval 728 to 788 feet. <u>y</u>

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Below land-surface datum (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)				Date of measurement	Yield (gal/min)			
LJ-60-63-502	Harris County Utility District No. 5	Layne-Western Co., Inc.	1976	1,060	18 12	728 1,060	E	75	105	May 1976	T, E	P	Screen in interval 742 to 1,050 feet. Reported yield 2,513 gal/min with 219 feet drawdown when drilled. <u>y</u>	
709	Forest Cove Municipal Utility District	Texas Water Wells, Inc.	1974	980	16	980	E	75	124	Sept. 1974	T, E	D	125 feet screen between 725 and 960 feet. Reported yield 1,001 gal/min with 254 feet drawdown when drilled.	
710	City of Houston	Layne-Western Co., Inc.	1975	350	24 16 10	32 170 350	CL	51	98	Sept. 1975	T, E 25	P	Screen in interval 180 to 338 feet. Reported yield 305 gal/min with 145 feet drawdown when drilled. <u>y</u>	
* 801	Harris County Municipal Utility District No. 109	Layne-Texas Co.	1974	1,165	18 12	770 1,165	E	71	154	Nov. 26, 1975	T, E	P	205 feet screen between 780 and 1,150 feet. Reported yield 1,515 gal/min with 69 feet drawdown when drilled. Test hole drilled to 1,350 feet. <u>y</u>	
* 802	Harris County Municipal Utility District No. 132	do	1974	1,205	18 12	840 1,205	E	71	146	Jan. 8, 1975	T, E	P	200 feet screen between 850 and 1,190 feet. Reported yield 1,529 gal/min with 94 feet drawdown when drilled. Test hole drilled to 1,350 feet. <u>y</u>	
64-09-104	Harris County WC and ID No. 97	Dickson Drilling Co.	1971	706	14 10	495 706	E	70	250	Oct. 1971	T, E 40	P	142 feet screen between 500 and 691 feet. Reported yield 1,018 gal/min with 105 feet drawdown when drilled. Test hole drilled to 1,156 feet. <u>y</u>	
509	Thomas M. Bobin	A and L Water Well	1974	316	4 2	291 316	C	42	171	June 3, 1974	Sub, E 5	D	Screen in interval 280 to 316 feet.	
65-02-614	Humphrey Chemical Co.	--	1972	371	8	371	C	27	126	Jan. 6, 1972	Sub, E 20	Ind	Screen in interval 329 to 371 feet.	
615	R. D. Schmidt	--	1976	605	20 12	-- --	E	156	--	--	T, E 250	Irr	Screen in interval 241 to 605 feet.	
823	F. L. Rogers Estate	Layne-Western Co., Inc.	1977	553	20 12	434 553	C	156	140	Dec. 15, 1977	T, E	Irr	Casing slotted from 191 to 553 feet. Reported yield 2,435 gal/min with 68 feet drawdown when drilled. <u>y</u>	
918	Harold Freeman	do	1977	661	20 12	395 661	E, C	162	134	Feb. 3, 1977	--	Irr	Casing slotted from 197 to 661 feet. Reported yield 3,002 gal/min with 81 feet drawdown when drilled. Test hole drilled to 896 feet. <u>y</u>	
03-109	Oscar Kemp Estate	do	1978	782	20 12	394 782	E, C	158	152	Jan. 16, 1978	T, E 225	Irr	Casing slotted from 206 to 782 feet. Reported yield 2,610 gal/min with 74 feet drawdown when drilled. <u>y</u>	
307	C. M. Lindsey	Layne-Texas Co.	1969	891	18 12	-- --	C	158	--	--	T, E 125	Irr	Casing slotted from 195 to 250 feet.	
613	Enchanted Valley Estates	Water Resources of Texas	1977	604	8 4	513 604	C	142	153.85	Sept. 1, 1976	Sub, E 15	P	Screen from 421 to 489 feet. Reported yield 155 gal/min with 28.95 feet drawdown when drilled. <u>y</u>	
708	Cameron Country Club	Bussell and Son, Inc.	1974	476	6 4	377 476	CL	141	180	Sept. 4, 1974	Sub, E	Ind	33 feet screen from 376 to 476 feet.	
810	L. H. Hegar	--	1970	589	20 12	-- --	--	146	--	--	T, Rg	Irr		
* 810	Harris County Municipal Utility District No. 144	Layne-Texas Co.	1977	967	16 10	550 967	E	134	210	July 26, 1977	T, E	P	100 feet screen from 560 to 953 feet. Reported yield 1,033 gal/min with 41 feet drawdown when drilled. Test hole drilled to 1,300 feet. <u>y</u>	

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water Level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
* LJ-65-03-811	Harris County Municipal Utility District No. 70	Layne-Texas Co.	1979	1,060	16 10	590 1,060	E	135	141	May 22, 1979	T	P	151 feet screen from 605 to 1,045 feet. Reported yield 1,404 gal/min with 59 feet drawdown when drilled. Test hole drilled to 1,200 feet. <sup>y</sup>
812	Mayde Creek Municipal Utility District	do	1979	970	16 10	520 970	E	131	215	Apr. 25, 1979	T,E	P	195 feet screen between 507 and 948 feet. Reported yield 1,060 gal/min with 45 feet drawdown when drilled. Test hole drilled to 1,300 feet. <sup>y</sup>
905	Spencer Road Utility District	Layne-Western Co., Inc.	1974	965	16 10	500 965	E, Cl	124	221	Aug. 1974	T,E	P	Screen in interval from 510 to 965 feet. Reported yield 1,471 gal/min with 100 feet drawdown when drilled. Test hole drilled to 1,336 feet.
* 906	Harris County Municipal Utility District	Layne-Texas Co.	1977	1,145	16 10	640 1,145	E	130	207	Nov. 25, 1977	T,E	P	200 feet of screen between 650 and 1,130 feet. Reported yield 1,015 gal/min with 79 feet drawdown when drilled. <sup>y</sup>
907	Harris County Municipal Utility District No. 162, well 1	Layne-Western Co., Inc.	1978	990	20 10	521 990	E	125	230	Oct. 3, 1978	T,E	P	226 feet screen between 531 and 980 feet. Reported yield 1,302 gal/min with 68 feet drawdown when drilled. Test hole drilled to 1,396 feet. <sup>y</sup>
04-108	Grantwood Addition	Raymond Water Well Drilling, Inc.	1974	512	6 4	441 512	C	128	130	Dec. 1974	Sub,E	P	Screen from 472 to 512 feet.
109	Lake Forest Utility District, well 2	Layne-Texas Co.	1978	1,185	18 12	820 1,185	E	132	204.5	June 20, 1978	T,E	P	212 feet of screen between 830 and 1,165 feet. Reported yield 1,266 gal/min with 71 feet drawdown when drilled. Test hole drilled to 1,522 feet. <sup>y</sup>
* 314	Harris County WC and ID No. 116	do	1974	520	10 6	390 520	C	125	165	June 20, 1974	T,E	P	100 feet of screen between 400 and 508 feet. Reported yield 495 gal/min with 40 feet drawdown when drilled. <sup>y</sup>
* 315	Heatherloch Municipal Utility District	do	1975	775	16 10	510 775	E, Cl	124	182	July 3, 1975	T,E	P	180 feet of screen between 520 and 760 feet. Reported yield 1,022 gal/min with 55 feet drawdown when drilled. <sup>y</sup>
417	Tower Oak Bend Well No. 1	Layne-Western Co., Inc.	1978	548	8 6	476 548	C	136	211	Nov. 1978	Sub,E	P	40 feet of screen between 478 and 526 feet. Reported yield 200 gal/min with 125 feet drawdown when drilled. <sup>y</sup>
* 518	Emerald Forest Municipal Utility District	Layne-Texas Co.	1972	1,080	16 10	760 1,080	E	130	195 234.17	Jan. 9, 1973 June 21, 1978	T,E	P	195 feet of screen between 770 and 1,060 feet. Reported yield 1,029 gal/min with 54 feet drawdown when drilled. Test hole drilled to 1,258 feet. <sup>y</sup>
519	Reid Road Municipal Utility District	Layne-Western Co., Inc.	1977	1,129	16 10	696 1,129	E	124	220	Mar. 1977	--	P	Screen in interval between 704 and 1,119 feet. Reported yield 1,018 gal/min with 54 feet drawdown when drilled. Test hole drilled to 1,258 feet. <sup>y</sup>
520	Mills Road Municipal Utility District	do	1978	1,061	16 10	737 1,061	E	130	247	July 1978	T,E	P	Screen in interval 747 to 1,051 feet. Reported yield 1,212 gal/min with 44 feet drawdown when drilled. Test hole drilled to 1,216 feet. <sup>y</sup>
* 521	Whitcoak Bend Municipal Utility District, well 1	Lansford Drilling Co., Inc.	1979	740	16 10	640 740	C	123	243	May 1979	T,E 60	P	254 feet of screen between 440 and 730 feet. Reported yield 1,000 gal/min with 74 feet drawdown when drilled. <sup>y</sup>

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Below land-surface datum (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)				Date of measurement				
LJ-65-04-613	Northwest Harris County Municipal Utility District No. 6	Water Resources, Inc.	1977	878	16 10	528 878	E	120	227	Sept. 28, 1977	T, E 150	P	Screen in interval 532 to 868 feet. Reported yield 1,000 gal/min with 74 feet drawdown when drilled. <u>Y</u>	
717	Cameron Iron Works	Bussell and Son, Inc.	1974	449	6 4	358 449	C	116	132	May 14, 1974	Sub, E	P	37 feet of screen between 375 and 439 feet. <u>Y</u>	
* 718	Chimney Hill Municipal Utility District	Layne-Western Co., Inc.	1976	1,061	16 10	619 1,061	E, C	123	220	Nov.	E	P	Screen in interval 623 to 1,051 feet. Reported yield 1,000 gal/min with 100 feet drawdown when drilled. Test hole drilled to 1,195 feet. <u>Y</u>	
719	City of Houston Jersey Village No. 1	Water Resources of Texas	1976	1,480	24 18 14	550 550 1,480	E, C	120	234	Dec. 28, 1976	T, E	P	434 feet of screen between 560 and 1,472 feet. Reported yield 2,118 gal/min with 130 feet drawdown when drilled. Test hole drilled to 1,502 feet. <u>Z</u>	
720	Charter Land and Housing	Bussell and Son, Inc.	1977	227	6 4	206 227	C	119	101	Apr. 18, 1977	Sub, E	N	250 feet of screen between 490 and 820 feet. Reported yield 1,000 gal/min with 65 feet drawdown when drilled. <u>Y</u>	
* 808	Mindfern Forrest Municipal Utility District, well 1	Lanford Drilling Co., Inc.	1979	830	16 10	490 830	E	108	290	May	T, E 150	P	325 feet of screen between 795 and 1,260 feet. Reported yield 1,104 gal/min with 112 feet drawdown when drilled. Test hole drilled to 1,371 feet. <u>Y</u>	
* 912	Harris County Municipal Utility District No. 23	Water Resources, Inc.	1975	1,282	16 10	785 1,282	E	96	316	Sept. 16, 1975	R, E 200	P	90 feet of screen between 508 and 779 feet. Reported yield 400 gal/min with 25 feet drawdown when drilled. <u>Y</u>	
913	Larkstone Building Co.	B. J. Swinehart Co., Inc.	1976	781	8 6	507 781	C, E	93	177	Oct.	T, E	P	200 feet of screen between 710 and 1,165 feet. Reported yield 1,022 gal/min with 82 feet drawdown when drilled. <u>Y</u>	
* 05-112	Harris County Municipal Utility District No. 44, well 1	Layne-Texas Co.	1976	1,180	16 10	700 1,180	E	121	183	May 25, 1975	T, E 125	P	200 feet of screen between 553 and 1,023 feet. Reported yield 1,023 gal/min with 66 feet drawdown when drilled. Test hole drilled to 1,201 feet. <u>Y</u>	
* 113	Harris County Municipal Utility District No. 150, well 1	do	1977	1,038	16 10	543 1,038	E	108	220	Sept. 22, 1977	T, E 150	P	Screen from 266 to 296 feet. <u>Y</u>	
114	Fontain Head Municipal Utility District	Bussell and Son, Inc.	1977	296	6 4	266 296	C	119	98	June 6, 1977	T, E	P	Screen from 487 to 527 feet. <u>Y</u>	
214	High Plains Machinery Co.	B. J. Swinehart Co., Inc.	1975	540	6 4	487 540	Cl.	105	178	June	Sub, E	P	130 feet of screen between 240 and 420 feet. <u>Y</u>	
* 215	Harris County Municipal Utility District No. 5, well 2	Layne-Texas Co.	1975	430	14 8	120 430	Cl.	104	150	Apr. 21, 1975	Sub, E	P	70 feet of screen between 331 and 451 feet. Reported yield 385 gal/min with 39 feet drawdown when drilled. <u>Y</u>	
404	Northwest Harris County Utility No. 1	Bussell and Son, Inc.	1978	456	8 5	326 456	C	107	165	Mar.	Sub, E	P		

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
* L3-65-05-405	Harris County Municipal Utility District No. 33, well 1	Layne-Texas Co.	1978	1,260	16 10	785 1,260	E	103	246	May 18, 1978	T,E	P	220 feet of screen between 795 and 1,245 feet. Reported yield 1,012 gal/min with 112 feet draw-down when drilled. <sup>y</sup>
* 514	Forest Hill Municipal Utility District, well 1	do	1977	950	16 10	638 930	E	101	283	Nov. 15, 1977	T,E	P	216 feet of screen between 650 and 925 feet. Reported yield 1,023 gal/min with 65 feet draw-down when drilled. Test hole drilled to 1,300 feet. <sup>y</sup>
* 515	Northborough Municipal Utility District, well 1	Layne-Western Co., Inc.	1978	1,324	18 12	674 1,324	E	97	249	Jan. 1978	T,E	P	300 feet of screen between 684 and 1,304 feet. Reported yield 2,052 gal/min with 63 feet draw-down when drilled. <sup>y</sup>
* 615	Greens Public Utility District, well 1	Layne-Texas Co.	1973	1,460	18 12	622 1,460	E	86	234.37	Apr. 27, 1973	T,E	P	375 feet of screen between 632 and 1,440 feet. Reported yield 1,845 gal/min with 38 feet draw-down when drilled. Test hole drilled to 1,710 feet. <sup>y</sup>
* 616	Northgate Utility District, well 1	Layne-Texas Co.	1974	1,082	16 10	722 1,082	E	90	259	Mar. 19, 1974	T,E	P	146 feet of screen between 730 and 1,006 feet. Reported yield 1,022 gal/min with 42 feet draw-down when drilled.
* 617	West Road Improvement District	do	1975	1,145	18 12	680 1,145	E	85	287	Feb. 20, 1975	T,E	P	225 feet of screen between 690 and 1,130 feet. Reported yield 1,529 gal/min with 89 feet draw-down when drilled. <sup>y</sup>
* 618	Imperial Valley Municipal Utility District	Layne-Western Co., Inc.	1974	1,485	20 12	755 1,485	E	86	281	Jan. 1975	E	P	Screen in interval 767 to 1,475 feet. Reported yield 2,260 gal/min with 110 feet drawdown when drilled. <sup>y</sup>
* 619	Northgate Utilities District	do	1975	1,449	20 12	705 1,449	E	92	241	Apr. 1975	T,E	P	Screen in interval 715 to 1,429 feet. Reported yield 1,900 gal/min with 80 feet drawdown when drilled. Test hole drilled to 1,695 feet. <sup>y</sup>
* 620	Drlico Div. Smith International, Inc.	do	1977	815	16 10	495 815	E,C	86	160	June 1977	--	Ind	Screen in interval 503 to 805 feet. Reported yield 609 gal/min with 85 feet drawdown when drilled. Test hole drilled to 1,101 feet. <sup>y</sup>
* 622	Imperial Valley Property Ltd., well 2	--	1973	412	4	412	C	91	160	Dec. 12, 1973	Sub,E 5	P	Screen from 392 to 412 feet.
* 727	Harris County Municipal Utility District No. 15	Water Resources, Inc.	1975	1,064	16 10	704 1,064	E	98	248	Oct. 29, 1975	T,E 200	P	220 feet of screen between 709 and 1,044 feet. Reported yield 1,104 gal/min with 103 feet draw-down when drilled. Test hole drilled to 1,211 feet. <sup>y</sup>
* 820	Tri-Angle Engineering Co.	Busseil and Son, Inc.	1973	345	6 4	298 345	C	95	165	Sept. 11, 1973	Sub,E	D	20 feet of screen between 298 and 321 feet.
* 821	do	do	1973	345	6 4	298 345	C	98	165	do	Sub,E	D	20 feet of screen between 298 and 321 feet.
* 822	Heather Glenn Utilities	B. J. Swinehart Co., Inc.	1975	698	8 6	499 698	E,CL	92	222	June 1975	T,E	P	100 feet of screen between 503 and 694 feet. <sup>y</sup>
* 943	Domestic Utility Co., well 1	do	1976	801	6 4	521 801	E	82	240	Dec. 1976	E	P	60 feet of screen between 523 and 796 feet. Reported yield 170 gal/min with 81 feet draw-down when drilled. <sup>y</sup>

See footnotes at end of table.



Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Below land-surface datum (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)				Date of measurement				
LJ-65-05-944	Domestic Utility Co., well 2	B. J. Swinehart Co., Inc.	1977	496	8	314	C	83	198	Jan.	1977	E	P	47 feet of screen between 320 and 490 feet. Reported yield 200 gal/min with 39 feet draw-down when drilled. <u>Y</u>
* 06-313	City of Humble, well 6	Layne-Texas Co.	1974	1,065	16	830	E	76	224	Oct. 23,	1974	T, E	P	150 feet of screen between 840 and 1,045 feet. Reported yield 1,001 gal/min with 49 feet draw-down when drilled. <u>Y</u>
* 414	H. B. Zachery Co.	do	1975	662	8	510	E	85	185	July 14,	1975	--	Ind	70 feet of screen between 518 and 627 feet. Reported yield 219 gal/min with 35 feet draw-down when drilled. Test hole drilled to 770 feet. <u>Y</u>
415	Rucker Hycalog Corp.	Bussell and Son, Inc.	1976	388	6	388	C	76	234	--	--	--	Ind	26 feet of screen between 277 and 388 feet.
416	do	do	1976	380	6	380	C	76	240	--	--	--	Ind	26 feet of screen between 334 and 380 feet.
* 417	North Belt Utility District, well 1	Layne-Texas Co.	1978	1,140	16	700	E	78	278	Aug. 30,	1978	T, E	P	185 feet of screen between 710 and 1,125 feet. Reported yield 1,230 gal/min with 73 feet draw-down when drilled. <u>Y</u>
522	H and H Guest Ranch	Raymond Water Wells	1974	538	6	460	E	83	175	July 29,	1974	--	Ind	78 feet of screen between 460 and 538 feet. <u>Y</u>
523	Douglas Utilities, well 1	Bussell and Son, Inc.	1974	471	6	290	CL, E	76	192	July 24,	1974	--	P	70 feet of screen between 359 and 471 feet. <u>Y</u>
524	Douglas Utilities, well 2	do	1975	471	6	354	CL, E	72	180	Feb.	1975	--	P	50 feet of screen between 368 and 471 feet. <u>Y</u>
525	Hydril Co., well 1	do	1976	380	6	332	C	81	169	Sept. 1,	1976	Sub, E	P	35 feet of screen between 332 and 380 feet. <u>Y</u>
526	Hydril Co., well 2	do	1976	500	6	366	C	81	172	--	--	Sub, E	P	50 feet of screen between 266 and 421 feet. <u>Y</u>
* 527	S. W. Mengden	Birdwell Water-Well Service	1976	1,000	7	931	E	70	265	Sept.	1976	E	D	50 feet of screen between 940 and 990 feet.
617	El Dorado Utility District	do	1973	331	6	300	C	70	162.67	Nov. 26,	1973	Sub, E	P	Screen from 300 to 330 feet. <u>Y</u> Supply well for well 1
* 618	Eldorado Utility District, well 1	Layne-Texas Co.	1973	1,065	16	550	E	70	206	Feb. 1,	1974	T, E	P	200 feet of screen between 560 and 1,050 feet. Reported yield 1,012 gal/min with 65 feet draw-down when drilled. <u>Y</u>
723	American Utilities	B. J. Swinehart Co., Inc.	1978	365	6	333	C	74	213	July	1978	Sub, E	P	Screened from 333 to 363 feet. <u>Y</u>
828	Suburban Home Utilities	do	1974	693	8	415	E, CL	72	232	Aug.	1974	T, E	P	115 feet of screen between 456 and 691 feet. <u>Y</u>
* 829	Harris County WC and ID No. 74	Layne-Texas Co.	1978	1,060	16	700	E	72	318	Dec. 27,	1978	T, E	P	160 feet of screen between 710 and 1,040 feet. Reported yield 1,043 gal/min with 85 feet draw-down when drilled. Test hole drilled to 1,153 feet. <u>Y</u>
908	Consumers Water Co.	Associated Well Service	1978	347	6	290	C	60	210	Sept. 5,	1978	T, E	P	Screened from 305 to 340 feet. <u>Y</u>

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
* LJ-65-07-107	Treal of the Lakes Municipal Utility District	Layne-Texas Co.	1975	1,096	16	--	E	77	212	Apr. 7, 1975	T,E	P	Reported yield 1,110 gal/min with 66 feet draw-down when drilled.
08-504	Diamondhead Corp.	--	1973	200	4	200	C	40	105	June 23, 1973	Sub,E	P	Screen from 184 to 200 feet.
505	do	--	1972	223	4	223	C	48	130	Aug. 3, 1972	Sub,E <sub>5</sub>	P	Screen from 201 to 223 feet.
506	Harris County Municipal Utility District No. 19, well 2	Layne-Western Co., Inc.	1978	976	16	589 10 976	E	48	191	Oct. 1978	T,E	P	180 feet of screen between 596 and 966 feet. Reported yield 1,580 gal/min with 226 feet drawdown when drilled. Test hole filled to 1,223 feet. <u>y</u>
708	Southland Paper, well 7	Texas Water Wells	1973	1,560	24	879 14 1,560	E	49	276	Oct. 1973	T,E	Ind	312 feet of screen between 885 and 1,542 feet.
709	Diamondhead Corp.	--	1973	228	4	228	C	45	110	June 25, 1973	Sub,E <sub>5</sub>	P	Screen from 208 to 228 feet.
* 815	Harris County Municipal Utility District No. 19	Layne-Texas Co.	1973	1,455	20	810 12 1,455	E	16	203	Sept. 17, 1973	T,E 450	P	300 feet of screen between 835 and 1,440 feet. Reported yield 2,610 gal/min with 72 feet draw-down when drilled. <u>y</u>
816	Diamondhead Corp	--	1971	225	4	225	C	49	125	Dec. 13, 1971	Sub,E <sub>5</sub>	P	Screen from 205 to 225 feet.
817	do	--	1973	200	4	200	C	46	125	Mar. 8, 1973	Sub,E <sub>5</sub>	P	Screen from 180 to 200 feet.
904	Bill Murff	--	1972	390	4	390	C	50	270	May 10, 1972	Sub,E <sub>5</sub>	D	Screen from 370 to 390 feet.
905	do	--	1950	72	12	72	C	49	--	--	Sub,E <sub>5</sub>	Irr	Casing perforated from 60 to 72 feet.
906	do	--	1950	384	4	384	C	49	270	July 14, 1975	Sub,E <sub>5</sub>	Irr	Screen from 364 to 384 feet.
10-310	Douglas Freeman	--	1970	800	20	800	C,E	155	141	1970	T,E 165	Irr	Casing slotted from 290 to 800 feet.
914	Harris County Municipal Utility District No. 81, well 2	Layne-Western Co., Inc.	1977	894	20	539 12 894	C	120	184	June 1977	T,E 250	P	206 feet of screen between 544 and 884 feet. Reported yield 1,548 gal/min with 119 feet drawdown when drilled. Test hole drilled to 1,348 feet. <u>y</u>
915	Mason Creek Utility District	do	1977	1,084	24	47 16 628 10 1,084	E	126	262	Mar. 1977	T,E	P	Screen in interval 640 to 1,074 feet. Reported yield 1,012 gal/min when drilled. Test hole drilled to 1,194 feet. <u>y</u>
* 11-108	Harris County Municipal Utility District No. 105	Layne-Texas Co.	1977	870	20	560 14 565 10 870	C,E	141	237	July 5, 1977	T,E 30	P	180 feet of screen between 570 and 853 feet. Reported yield 1,012 gal/min with 81 feet draw-down when drilled. Test hole drilled to 1,150 feet. <u>y</u>
205	Harris County Municipal Utility District No. 136	do	1978	892	16	474 10 892	E	126	334	June 1978	T,E	P	280 feet of screen between 484 and 882 feet. Reported yield 1,070 gal/min with 81 feet draw-down when drilled. Test hole drilled to 1,079 feet.

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
* LJ-65-11-306	Harris County Municipal Utility District No. 6	Layne-Texas Co.	1973	1,485	20 10	640 1,485	E	108	206	Jan. 7, 1974	T,E	P	345 feet of screen between 650 and 1,470 feet. Reported yield 1,212 gal/min with 59 feet drawdown when drilled. Test hole drilled to 1,600 feet. <u>1/</u>
307	Harris County Municipal Utility District No. 102	Layne-Western Co., Inc.	1976	937	16 10	607 937	C,E	123	203	Feb. 1977	T,E	P	Screen in interval 617 to 927 feet. Reported yield 1,007 gal/min with 189 feet drawdown when drilled. Test hole drilled to 1,097 feet. <u>1/</u>
308	Barker-Cypress Municipal Utility District and Jack Rabbitt Road Public Utility District	do	1979	1,037	16 10	570 1,037	E	122	221	Mar. 27, 1979	T,E	P	226 feet of screen between 580 and 1,027 feet. Reported yield 1,585 gal/min with 72 feet drawdown when drilled. Test hole drilled to 1,144 feet. <u>1/</u>
* 309	Harris County Utility District No. 6, well 2	Layne-Texas Co.	1979	1,250	16 12	70 1,250	E	110	267	Apr. 8, 1979	T,E 200	P	265 feet of screen between 710 and 1,230 feet. Reported yield 1,230 gal/min with 58 feet drawdown when drilled. Test hole drilled to 1,500 feet. <u>1/</u>
* 310	Northwest Harris County Municipal Utility District No. 16, well 1	Layne-Western Co., Inc.	1978	862	16 10	-- 862	E	120	228	July 14, 1979	T,E	P	204 feet of screen between 542 and 852 feet. Reported yield 1,060 gal/min with 73 feet drawdown. <u>1/</u>
* 407	Harris County Municipal Utility District No. 61	Layne-Texas Co.	1976	1,170	16 10	690 1,170	E	128	227	Sept. 17, 1976	T,E	P	225 feet of screen between 700 and 1,157 feet. Reported yield 1,022 gal/min with 59 feet drawdown when drilled. <u>1/</u>
* 408	Fry Road Municipal Utility District, well 1	do	1978	1,160	18 12	625 1,160	E	122	214	Mar. 17, 1979	T,E 200	P	230 feet of screen between 635 and 1,145 feet. Reported yield 1,336 gal/min with 91 feet drawdown when drilled. <u>1/</u>
* 409	Morton Road Municipal Utility District	Layne-Western Co., Inc.	1978	1,180	16 10	514 1,180	E	116	231	Sept. 12, 1978	T,E 125	P	196 feet of screen between 522 and 1,170 feet. Reported yield 1,230 gal/min with 54 feet drawdown when drilled. Test hole drilled to 1,294 feet. <u>1/</u>
507	Pine Forest Country Club	Russell and Son, Inc.	1974	566	6	566	CL	115	156	Feb. 18, 1974	T,E	P	56 feet of screen between 338 and 556 feet. <u>1/</u>
508	Friendswood Development Co.	Layne-Western Co., Inc.	1975	1,069	20 12	578 1,069	E,CL	119	214	Sept. 1975	T,E	P	Screen in interval 586 to 1,059 feet. Reported yield 1,060 gal/min when drilled. Test hole drilled to 1,608 feet. Supplies Deerfield Village. <u>1/</u>
708	Harris County Municipal Utility District No. 81	do	1974	913	16 10	640 913	E,CL	119	214	Aug. 1975	T,E	P	Screen in interval 647 to 903 feet. Reported yield 1,230 gal/min with 76 feet drawdown when drilled. Test hole drilled to 1,120 feet. <u>1/</u>
* 913	Harris County Municipal Utility District No. 107, well 7	Water Resources, Inc.	1975	1,305	16 10	-- 1,305	E	85	216.30 221.20	Jan. 26, 1975 Jan. 27, 1975	T,E	P	273 feet of screen between 772 and 1,305 feet. Reported yield 1,033 gal/min with 111 feet drawdown when drilled.
* 914	Harris County Municipal Utility District No. 10	do	1976	1,129	16 10	720 1,129	E	80	237	Jan. 6, 1976	T,E	P	252 feet of screen between 756 and 1,114 feet. Reported yield 1,084 gal/min with 92 feet drawdown when drilled. Test hole drilled to 1,277 feet. <u>1/</u>

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface datum (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
* LJ-65-11-915	Memorial West Utility District	Layne-Texas Co.	1977	995	16	760	E	86	257	Mar. 23, 1977	T,E	P	160 feet of screen between 770 and 980 feet. Reported yield 1,025 gal/min with 37 feet draw-down when drilled. <u>y</u>
12-108	Toshiba International, well 1	Bussell and Son, Inc.	1977	526	6	332	C	118	142	Oct. 1977	Sub,E	Ind	56 feet of screen between 340 and 478 feet. <u>y</u>
* 212	Harris County Municipal Utility District No. 25	Layne-Texas Co.	1974	1,016	20	695	E	107	234	Mar. 27, 1974	T,E	P	215 feet of screen between 706 and 1,001 feet. Reported yield 1,001 gal/min with 60 feet draw-down when drilled. Test hole drilled to 1,100 feet. <u>y</u>
213	State Department of Highways and Public Transportation	--	1965	335	4	335	C	102	144	Aug. 10, 1965	Sub,E	P	Screen in interval 262 to 335 feet.
327	Baker Oil Tool Co.	Bussell and Son, Inc.	1971	297	4	281	C	100	--	--	T,E	Ind	Screen from 281 to 297 feet.
404	Harris County	B. J. Swinehart Co., Inc.	1976	701	6	516	E,CL	97	186	Apr. 1976	Sub,E	Rec	50 feet of screen between 517 and 696 feet. Supplies Bear Creek Park.
* 516	City of Houston Katy-Addicks, well 6	Layne-Texas Co.	1976	1,165	24	695	E	95	312-65	Mar. 2, 1978	--	P	304 feet of screen between 705 and 1,150 feet. Test hole drilled to 1,600 feet. <u>y</u>
517	City of Houston Katy-Addicks, well 7	do	1977	1,573	24	--	E	102	--	--	--	P	360 feet of screen between 695 and 1,558 feet.
518	City of Houston Katy-Addicks, well 8	do	1976	1,545	24	660	E	102	306-94	Mar. 2, 1978	--	P	395 feet of screen between 670 and 1,600 feet. <u>y</u>
727	Westgate Development Co.	B. J. Swinehart Co., Inc.	1974	320	6	271	C	75	140	Aug. 1974	Sub,E	P	30 feet of screen between 274 and 319 feet. Supplies Wildwood Subdivision. <u>y</u>
728	U.S. Geological Survey	do	1977	153	2	153	CU	93	137-69	Oct. 29, 1977	N	N	Screen from 147 to 153 feet.
* 729	do	do	1977	237	2	237	C	93	144-50	do	N	N	Screen from 231 to 237 feet.
816	Igloo Corporation	Lowry Water Wells	1976	440	6	440	C	84	168	Nov. 18, 1976	Sub,E	Ind	Screen from 410 to 440 feet. <u>y</u>
938	Daniel Industries, Inc.	B. J. Swinehart Co., Inc.	1975	600	6	442	CL	84	204	Sept. 7, 1975	Sub,E	P	51 feet of screen between 443 and 594 feet.
* 13-123	Harris County WC and ID No. 93	Layne-Texas Co.	1974	1,095	16	690	E	90	331	Aug. 6, 1974	T,E	P	190 feet of screen between 700 and 1,080 feet. Reported yield 1,089 gal/min with 46 feet draw-down when drilled. <u>y</u>
747	Brown Oil Tool Co.	Brown Oil Tool Co.	1970	1,806	6	1,806	E	70	--	--	Sub,E	N	Well used as standby.
836	Joe L. Allbritton	B. J. Swinehart Co., Inc.	1977	598	6	433	C	57	252	June 1977	Sub,E	D	33 feet of screen between 443 and 598 feet. Reported yield 100 gal/min with 14 feet draw-down when drilled. <u>y</u>
946	Sparkle Ice Co.	Bussell and Son, Inc.	1970	514	4	400	CL	53	207	Apr. 23, 1970	Sub,E	Ind	30 feet of screen between 410 and 514 feet. <u>y</u>

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
LJ-65-14-439	Gifford-Hill American, Inc.	Russell and Son, Inc.	1974	548	6 4	450 548	C	64	264	Aug. 23, 1974	--	Ind	32 feet of screen between 486 and 522 feet. $\bar{y}$
15-306	Arco Chemical Co.	Texas Water Wells, Inc.	1975	1,554	12	1,554	E	45	321	Sept.	T, E	Ind	364 feet of screen between 797 and 1,539 feet. Reported yield 2,513 gal/min with 72 feet drawdown when drilled. Test hole drilled to 1,643 feet. $\bar{y}$
307	Harris County District No. 48, well 2	Russell and Son, Inc.	1977	540	6	327	C	45	135	Sept.	Sub-E	P	Reported yield 202 gal/min with 83 feet drawdown when drilled. $\bar{y}$
510	Kayo Services Inc.	Layne-Western Co., Inc.	1975	1,021	16 10	793 1,021	E	38	343	Aug.	T, E	P	Screen in interval 801 to 1,011 feet. Reported yield 1,040 gal/min with 149 feet drawdown when drilled. Test hole drilled to 1,295 feet. $\bar{y}$
604	Arco Chemical Co.	Texas Water Wells, Inc.	1975	1,554	12	1,554	E	43	323	Sept.	T, E	Ind	365 feet of screen between 797 and 1,513 feet. Reported yield 2,513 gal/min with 64 feet drawdown when drilled. Test hole drilled to 1,643 feet. $\bar{y}$
* 15-920	U.S. Geological Survey	Birdwell Water Well Service	1975	310	4 2	240 310	CL	27	--	--	N	N	10 feet of screen between 300 and 310 feet.
16-114	Arco Chemical Co.	Texas Water Wells, Inc.	1975	1,563	12	1,563	E	45	308	July	T, E	Ind	360 feet of screen between 798 and 1,448 feet. Reported yield 2,513 gal/min with 48 feet drawdown when drilled. Test hole drilled to 1,643 feet. $\bar{y}$
115	Texas Industries	Russell and Son, Inc.	1975	356	6 4	308 356	C	46	150	Apr. 23, 1975	--	Ind	Screen from 312 to 346 feet. $\bar{y}$
209	Fer-Ed, Inc.	--	1970	280	4	280	C	45	205	1970	Sub-E <sub>5</sub>	P	20 feet of screen between 250 and 280 feet.
409	Arco Chemical Co.	Texas Water Wells, Inc.	1975	1,584	12	1,584	E	44	315	July	T, E	Ind	361 feet of screen from 813 to 1,569 feet. Reported yield 2,513 gal/min with 45 feet drawdown when drilled. Test hole drilled to 1,643 feet. $\bar{y}$
410	American Plant Food Co.	B. J. Swinehart Co., Inc.	1974	286	6 4	244 286	C	10	159	Nov.	Sub-E	P	Screen from 245 to 285 feet. $\bar{y}$
613	Fer-Ed, Inc.	--	1969	360	4	360	C	42	205	1968	Sub-E <sub>5</sub>	Ind	Screen from 300 to 360 feet. $\bar{y}$
19-306	Shell Development Co.	--	1973	243	4	243	C	87	36	Dec. 3, 1973	Sub-E <sub>5</sub>	Irr	Screen from 227 to 243 feet. Supplies lakes.
* 307	Shell Development Co., well 1	Layne-Texas Co.	1974	1,295	16 10	930 1,295	E	85	225	Mar. 5, 1974	T, E 120	Ind	170 feet of screen between 940 and 1,280 feet. Reported yield 1,084 gal/min with 66 feet drawdown when drilled. $\bar{y}$
* 308	Shell Development Co., well 2	do	1974	1,295	16 10	925 1,295	E	85	220	Apr. 30, 1974	T, E 120	Ind	170 feet of screen between 935 and 1,275 feet. Reported yield 1,074 gal/min with 51 feet drawdown when drilled. $\bar{y}$
309	Harris County Municipal Utility District No. 98	Layne-Western Co., Inc.	1975	1,060	16 10	609 1,060	E, CL	85	182	July	T, E	P	Screen in interval 619 to 1,050 feet. Reported yield 1,250 gal/min with 89 feet drawdown when drilled. Test hole drilled to 1,302 feet. $\bar{y}$

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Below land-surface datum (ft)	Water level		Method of Lift	Use of water	Remarks
					Diam-eter (in.)	Depth (ft)				Date of measurement				
* LJ-65-19-310	Chalford One Municipal Utility District, well 1	Layne-Texas Co.	1975	1,250	16 10	915 1,250	E	90	219	Jan. 20, 1976	T, E 200	P	160 feet of screen between 940 and 1,230 feet. Reported yield 1,235 gal/min with 57 feet draw-down when drilled. Test hole drilled to 1,318 feet. <u>y</u>	
* 311	Harris County Municipal Utility District No. 120	do	1976	1,245	16 10	915 1,245	E	86	249	Oct. 4, 1976	T, E	P	160 feet of screen between 925 and 1,230 feet. Reported yield 1,251 gal/min with 65 feet draw-down when drilled. Test hole drilled to 1,337 feet. <u>y</u>	
313	Houston Golf Academy	Bussell and Son, Inc.	1978	425	6 4	334 425	C	82	131	Apr. 30, 1978	Sub, E	Irr	45 feet of screen between 342 and 424 feet. <u>y</u>	
20-122	Rosewood Municipal Utility District	Layne-Western Co., Inc.	1975	1,283	16 10	807 1,283	E	81	233	June 1975	T, E	P	Screen in interval 817 to 1,273 feet. Reported yield 1,080 gal/min with 75 feet draw-down when drilled. <u>y</u>	
224	Harris County Municipal Utility District No. 51	do	1974	1,075	20 12	655 1,065	E, CL	77	258	Oct. 1974	T, E	P	Screen in interval 665 to 1,065 feet. Reported yield 1,350 gal/min with 207 feet drawdown when drilled. Test hole drilled to 1,205 feet. <u>y</u>	
322	City of Houston	Texas Water Wells, Inc.	1976	1,524	18 14	638 1,524	E, CL	75	319	Jan. 1976	T, E 400	P	374 feet of screen between 647 and 1,509 feet. Reported yield 2,513 gal/min with 83 feet draw-down when drilled. Test hole drilled to 1,589 feet. <u>y</u>	
* 412	Harris County WC and ID No. 111	Layne-Texas Co.	1973	1,000	16 10	600 1,000	E, CL	85	197	Dec. 28, 1973	T, E	P	240 feet of screen between 610 and 985 feet. Reported yield 1,416 gal/min with 63 feet draw-down when drilled. Test hole drilled to 1,210 feet. <u>y</u>	
* 413	Bissonnet Municipal Utility	do	1976	1,335	16 10	788 1,335	E	89	240	Nov. 1976	T, E	P	205 feet of screen between 798 and 1,325 feet. Reported yield 1,022 gal/min with 67 feet draw-down when drilled. <u>y</u>	
* 414	Harris County Municipal Utility District No. 123	Layne-Western Co., Inc.	1978	1,038	16 10	694 1,038	E	86	269	Dec. 1978	T, E	P	231 feet of screen between 709 and 1,028 feet. Reported yield 1,319 gal/min with 51 feet draw-down when drilled. Test hole drilled to 1,154 feet. <u>y</u>	
516	Harris County WC and ID No. 90	do	1975	959	16 10	684 959	E, CL	85	246	Dec. 1975	--	P	Screen in interval 704 to 954 feet. Reported yield 1,100 gal/min with 63 feet drawdown when drilled. <u>y</u>	
* 807	Harris County Municipal Utility District No. 139	Layne-Texas Co.	1976	1,030	16 10	740 1,030	E, CL	76	260	Feb. 1977	T, E	P	180 feet of screen between 750 and 1,015 feet. Reported yield 1,022 gal/min with 62 feet draw-down when drilled. Test hole drilled to 1,159 feet. <u>y</u>	
* 21-143	City of Houston Southwest, well 1	do	1974	1,510	24 18	706 1,510	E	64	360	Aug. 21, 1975	T, E	P	464 feet of screen between 716 and 1,492 feet. Reported yield 2,500 gal/min with 89 feet draw-down when drilled. Replacement well. <u>y</u>	
* 144	City of Houston Southwest, well 5	do	1974	1,397	24 18 14	642 649 1,397	E	69	333.32	Apr. 14, 1975	T, E	P	393 feet of screen between 652 and 1,380 feet. Reported yield 2,513 gal/min with 106 feet draw-down when drilled. Replacement well. <u>y</u>	
145	Builders Supply	Raymond Water Wells	1978	461	6 4	421 461	C	62	245	June 21, 1978	Sub, E	Ind	Screen from 431 to 461 feet. Reported yield 193 gal/min with 48 feet drawdown when drilled. <u>y</u>	

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Below land-surface datum (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)				Date of measurement	Yield (gpm)			
LJ-65-21-146	Builders Supply	Raymond Water Wells	1978	461	6	421	C	62	245	June 28, 1978	Sub.E	Ind	Screen from 431 to 461 feet. Reported yield 193 gal/min with 48 feet drawdown when drilled.	
331	Warwick Hotel	Pomery Drilling Co.	1962	900	10	605	E,CL	50	226	Dec.	T.E 60	P	120 feet of screen between 605 and 896 feet.	
416	City of Bellaire, well 6	Layne-Western Co., Inc.	1978	1,348	20 14 12	775 775 1,348	E	63	405	Sept. 21, 1978	T.E	P	290 feet of screen between 782 and 1,338 feet. Reported yield 2,167 gal/min with 66 feet drawdown when drilled. Test hole drilled to 1,612 feet. <u>Y</u>	
623	Dresser Magcobar	B. J. Swinehart Co., Inc.	1956	542	6	542	C	52	214	Apr.	Sub.E 15	Ind	Screen from 508 to 538 feet.	
624	International Tools	Almada Water Well Service	1978	337	6	306	C	51	160	June 7, 1978	Sub.E	Ind	Screen 306 to 336 feet. Reported yield 300 gal/min when drilled. <u>Y</u>	
710	E. Robinson	do	1974	321	6	253	CL	65	134	Oct. 3, 1974	Sub.E	Ind	Screen from 286 to 321 feet. Reported yield 300 gal/min when drilled. Supplies nursery. <u>Y</u>	
928	Texas Brine Corp., well 9	Leonard W. Mickelson	1973	455	14	455	C	60	80	Oct.	T.E 75	Ind	Casing slotted from 187 to 453 feet. <u>Y</u>	
929	Texas Brine Corp., well 10	do	1973	455	14	455	C	61	80	Dec.	T.E 60	Ind	Casing slotted from 187 to 455 feet. <u>Y</u>	
930	Beaumont Well Works Co.	Pomery Drilling Co.	1965	603	6	603	C	50	271	June 2, 1975	Sub.E 15	N	Screen in interval 536 to 603 feet.	
22-337	Southwest Fabricators	B. J. Swinehart Co., Inc.	1974	517	8	441	C	35	245	Jan.	Sub.E	Irr	Screen from 485 to 515 feet.	
338	Hangone Ship Building Co.	Almada Water Well Service	1972	479	6	479	C	24	217	Nov. 14, 1972	Sub.E 15	Ind	Screen from 458 to 479 feet. Reported yield 200 gal/min when drilled.	
339	Lone Star Industries	Layne-Texas Co.	1974	1,104	12	805	E	32	402	Sept. 9, 1974	--	Ind	140 feet of screen between 915 and 1,090 feet. Reported yield 503 gal/min with 62 feet drawdown when drilled. <u>Y</u>	
908	Southland Reddi Ice Co.	Lowery Water Wells	1976	646	6	646	CL	49	212	May 13, 1976	Sub.E	Ind	55 feet of screen between 495 and 635 feet. <u>Y</u>	
23-320	U.S. Geological Survey	Birdwell Water Well Service	1975	990	4	183	CL	32	139.93	June 20, 1975	N	N	Screen from 380 to 390 feet. Observation well. <u>Y</u> <u>Z</u>	
321	do	do	1975	100	4	70	CU	32	5.33	May 21, 1975	N	N	Screen from 90 to 100 feet. Observation well. <u>Z</u>	
322	do	Water Resources, Inc.	1975	2,831	10	57	E	32	132.05	Oct. 20, 1975	N	N	Casing slotted from 2,707 to 2,717 feet. Borehole extensometer test hole. Drilled to 2,869 feet. <u>Y</u> <u>Z</u>	
323	Harris-Galveston Coastal Subsidence District	do	1976	1,328	4	1,328	E	32	238.75	May 25, 1976	N	N	Screen from 1,313 to 1,323 feet. Observation well. <u>Z</u>	
324	do	do	1976	936	4	936	E	32	400.22	Apr. 29, 1976	N	N	Screen from 921 to 931 feet. Observation well. <u>Z</u>	

See footnotes at end of table.

Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Below land-surface datum (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)				Date of measurement				
* LJ-65-23-325	Harris-Galveston Coastal Subsidence District	Water Resources, Inc.	1976	1,817	4	1,817	E	32	237.85	May 26, 1976	N	N	Screen from 1,802 to 1,812 feet. Observation well. <u>Y</u>	
* 326	do	do	1976	730	4	730	E	32	393.40	May 12, 1976	N	N	Screen from 715 to 725 feet. Observation well. <u>Y</u>	
24-146	Diamond-Shamrock	Texas Water Wells, Inc.	1974	1,460	18 12	638 1,460	E	27	401.25	Aug. 1974	T,E	Ind	380 feet of screen between 638 and 1,450 feet. Test hole drilled to 1,600 feet.	
* 147	Lubrizol Corp., well 2	Layne-Texas Co.	1973	1,350	16 10	800 1,350	E	29	412	Nov. 12, 1973	T,E 250	Ind	195 feet of screen between 810 and 1,370 feet. Reported yield 1,050 gal/min with 41 feet draw-down when drilled. <u>Y</u>	
* 148	Shell Chemical Co., well 4	do	1973	1,425	20 14	-- 1,425	E	25	412	Dec. 14, 1973	Sub,E	Ind		
150	Rollins Environmental Service, well 2	--	1973	530	6	530	C	26	315	Nov. 19, 1973	Sub,E 30	Ind		
151	Rollins Environmental Service, well 3	--	1973	530	6	530	C	28	315	Nov. 1973	Sub,E 30	Ind		
* 411	City of Deer Park, L Street well	Layne-Texas Co.	1974	1,289	18 10	730 1,289	E	31	336	Mar. 3, 1974	T,E	P	250 feet of screen between 740 and 1,272 feet. Reported yield 1,620 gal/min with 80 feet draw-down when drilled. Test hole drilled to 1,500 feet. <u>Y</u>	
* 616	Chemline Corp.	do	1976	500	6 4	450 500	CL	23	280	Nov. 15, 1976	Sub,E	Ind	Screen from 456 to 498 feet. Reported yield 125 gal/min with 30 feet drawdown when drilled. <u>Y</u>	
810	The Quaker Oats Co.	Texas Water Wells, Inc.	1975	1,175	8	1,175	E	18	293	July 1975	T,E 150	Ind	145 feet of screen between 747 and 1,165 feet. Reported yield 1,025 gal/min with 52 feet draw-down when drilled. Test hole drilled to 1,323 feet. <u>Y</u>	
* 811	City of La Porte, well 5	Layne-Texas Co.	1975	585	20 14	450 585	C	24	285	May 19, 1975	T,E	P	Screen from 460 to 570 feet. Reported yield 1,025 gal/min with 52 feet drawdown when drilled. Hole drilled to 1,134 feet. <u>Y</u>	
29-307	Texas Inbred Mice Co.	Almeda Water Well Service	1972	324	6 4	297 324	C	55	146	Dec. 1, 1972	Sub,E 15	Ind	19 feet of screen between 297 and 318 feet. Reported yield 250 gal/min when drilled.	
31-112	Harris County Municipal Utility District No. 13	Layne-Western Co., Inc.	1974	1,074	16 10	-- --	E,CL	37	260	Aug. 1974	T,E	P	Screen in interval 580 to 1,064 feet. Reported yield 1,000 gal/min with 120 feet drawdown when drilled. Test hole drilled to 1,250 feet.	
113	Sagemeadow Utility District	Texas Water Wells, Inc.	1975	1,151	10	1,403	E	42	260.65	July 1975	T,E	P	136 feet of screen between 753 and 1,141 feet. <u>Y</u>	
114	Harris County Municipal Utility District No. 13, well 2	Layne-Western Co., Inc.	1976	559	18 12 10	434 436 559	C	34	219	Dec. 1976	T,E	P	Screen in interval 439 to 554 feet. Reported yield 1,067 gal/min with 73 feet drawdown when drilled. Test hole drilled to 654 feet. <u>Y</u>	
* 219	Exxon Production and Research Co., well 2	Layne-Texas Co.	1976	555	6 4	476 555	CL	38	238	Sept. 7, 1976	Sub,E 20	Ind	Screen from 486 to 549 feet. Reported yield 150 gal/min with 20 feet drawdown when drilled. <u>Y</u>	

See footnotes at end of table.



Table 1.--Records of Wells in Harris County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft)	Casing		Water bearing unit	Altitude of land surface (ft)	Water level		Method of lift	Use of water	Remarks
					Diameter (in.)	Depth (ft)			Below land-surface datum (ft)	Date of measurement			
* LJ-65-31-906	Harris County Municipal Utility District No. 55, well 1	Layne-Texas Co.	1974	664	20 14	495 664	CL	28	210	June 3, 1974	T, E	P	Screen from 505 to 615 feet. Reported yield 1,404 gal/min with 47 feet drawdown when drilled. <u>1</u>
907	Harris County Municipal Utility District No. 55	Layne-Western Co., Inc.	1975	642	20 14 12	494 494 642	C	33	218	Apr. 1975	--	P	110 feet of screen between 504 and 622. Reported yield 1,350 gal/min with 43 feet drawdown when drilled. Test hole drilled to 709 feet. <u>1</u>
* 32-424	Harris-Galveston Coastal Subsidence District	Water Resources, Inc.	1976	1,740	4	1,740	E	24	229.5	Mar. 26, 1976	N	N	Screen from 1,701 to 1,721 feet. Borehole extensometer. <u>2</u>
* 425	do	B. J. Seinehart Co., Inc.	1976	1,242	4	1,232	E	24	207.95	Apr. 23, 1976	N	N	Screen from 1,217 to 1,227 feet. <u>1</u> <u>2</u>
* 426	do	do	1976	392	4	392	C	24	186.17	do	N	N	Screen from 377 to 387 feet. <u>1</u> <u>2</u>
* 427	do	do	1976	957	4	957	E	24	214.00	do	N	N	Screen from 942 to 952 feet. <u>1</u> <u>2</u>
* 428	do	Layne-Texas Co.	1976	3,072	5	3,072	E	24	136.38	May 3, 1976	N	N	Screen from 2,928 to 2,948 feet. Test hole drilled to 3,305 feet. Borehole extensometer. <u>1</u> <u>2</u>
* 633	City of Seabrook, well 5	do	1973	690	20 14	540 690	C	15	251	Sept. 6, 1973	T, E	P	120 feet of screen between 550 and 670 feet. Reported yield 831 gal/min with 26 feet drawdown when drilled. Test hole drilled to 1,314 feet.

\* See Table 4 for chemical analyses of water from wells.

1 See Table 2 for drillers' logs of wells.

2 See Table 3 for water levels in wells.

Table 2.—Drillers' Logs of Wells in Harris County

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-58-811</b>			<b>Well LJ-60-59-101—Continued</b>		
Owner: Northwest Freeway Municipal Utility District Driller: B. J. Swinehart Co., Inc.					
			Sand	38	145
			Clay	5	150
Clay	31	31	Sand	20	170
Sand	25	56	Clay	1	171
Clay	18	74	Sand, mixed and rock	31	202
Sand, gravel	32	106	Sand	15	217
Clay	18	124	Rock	1	218
Sand and rock	28	152	Sand	15	233
Clay	10	162	Rock	16	249
Sand and rock	19	181	Sand	13	262
Clay	36	217	Clay	1	263
Sand	55	272	Sand	24	287
Rocky	8	280	Clay	6	293
Sand	19	299	Sand	7	300
Clay	27	326	Rock, mixed and sand	13	313
Sand and rock	25	351	Rock	7	320
Clay	21	372	Sand	23	343
Rock	1	373			
Clay	18	391			
Sand	46	437	<b>Well LJ-60-60-203</b>		
Clay	49	486	Owner: Dowdell Public Utility District Driller: Texas Water Wells, Inc.		
Sand	9	495	Sand, clay	26	26
Clay	29	524	Sand, clay	108	134
Sand, fine	22	546	Clay gravel	10	144
Clay	69	615	Gravel	32	176
Sand	22	637	Sand, shale streaks	26	202
Rock	3	640	Sand, clay	29	231
Sand	34	674	Clay	71	302
Clay and rock	12	686	Clay, trace gravel	32	334
Sand	10	696	Clay	152	486
Clay	21	717	Sand, clay	121	607
Sand and rock	38	755	Sand	27	634
			Sand, clay	71	705
			Clay	30	735
			Sand	30	765
			Sand, clay	60	825
			Sand	31	856
			Clay, gravel	30	886
Topsoil	2	2	Sand	95	981
Clay	37	39	Sand, clay	30	1,011
Sand	4	43	Shale	34	1,045
Clay	6	49	Sand, broken	95	1,140
Clay, mixed	13	62	Clay	27	1,167
Sand	15	77	Sand, hard	62	1,229
Clay	30	107	Shale, sand streaks	12	1,241
<b>Well LJ-60-59-101</b>					
Owner: Johnny Clepper Driller: Schoppa Water Well Service					

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-60-204</b>			<b>Well LJ-60-60-709—Continued</b>		
Owner: Harris Co. Municipal Utility District No.1					
Driller: Layne-Texas Co.					
			Clay	31	534
			Sand	6	540
			Clay	25	565
Topsoil	4	4	Sand	20	585
Clay	10	14	Rock	3	588
Sand	94	108	Sand	21	609
Shale	12	120	Clay	24	633
Sand	105	225	Sand and rock	17	650
Shale	25	250	Clay	119	769
Sand	10	260	Sand	16	785
Shale and sand streaks	20	280	Clay	99	884
Sand and shale streaks	58	338	Sand and clay	82	966
Shale	26	364	Clay	34	1,000
Sand and shale streaks	47	411	Sand	19	1,019
Shale	51	462	Clay	76	1,095
Sand	55	517	Sand and clay	10	1,105
Sand and shale streaks	48	565	Clay, hard	185	1,290
Shale and sand streaks	98	663	Sand and rock	28	1,318
Sand and shale streaks	57	720	Clay, hard	23	1,341
Shale	93	813	Sand	16	1,357
Sand and shale streaks	87	900	Clay and small sand strips	28	1,385
Shale	70	970	Sand	27	1,412
Sand	35	1,005	Clay and small sand strips	65	1,477
Sand and shale streaks	15	1,020	Sand	29	1,506
Shale with few sand streaks	80	1,100	Clay, hard	9	1,515
<b>Well LJ-60-60-709</b>			<b>Well LJ-60-60-807</b>		
Owner: Faulkey Gully Municipal Utility Dist.			Owner: Gleannlock Farms		
Driller: Layne-Western Co.			Driller: B. J. Swinehart, Co., Inc.		
Clay	23	23	Clay	10	10
Sand	7	30	Sand	18	28
Clay	25	55	Clay	46	74
Sand	13	68	Sand	4	78
Clay	22	90	Clay	22	100
Sand	22	112	Sand	14	114
Clay	10	122	Clay	8	122
Sand	33	155	Sand	30	152
Clay and sand strips	60	215	Clay	54	206
Clay	78	293	Sand and rock	49	255
Sand	28	321	Rock and clay	38	293
Clay and sand strips	44	365	Sand	16	309
Clay	4	369	Clay and rock	23	332
Sand and small clay strips	134	503	Sand	13	345

Table 2.—Drillers' Logs of Wells in Harris County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-60-807—Continued</b>			<b>Well LJ-60-60-911—Continued</b>		
Clay	11	356	Shale, sandy streaks	30	891
Sand	22	378	Shale, sandy	26	917
Clay	82	460	Sand	20	937
Missing	10	470	Sand and sandy shale	47	984
Sand	12	482	Sand	10	994
Clay	16	498	Shale, sandy	52	1,046
Sand	13	511	Clay	5	1,051
Rock and clay	35	546	Shale, sandy	6	1,057
			Sand	36	1,093
			Sand and sandy shale	14	1,107
<b>Well LJ-60-60-911</b>			Shale, sandy	63	1,170
Owner: Kleinwood Utility District			Clay	15	1,185
Driller: Layne-Texas Co.			Sand	16	1,201
Topsoil	3	3	Shale, sandy	11	1,212
Clay, sandy	28	31	Shale	52	1,264
Clay	3	34			
Sand	4	38	<b>Well LJ-60-60-912</b>		
Clay	8	46	Owner: Harris County Municipal Utility District No. 24		
Sand	15	61	Driller: Layne-Texas Co.		
Sand with streaks of clay and shale	25	86	Topsoil	5	5
Clay	6	92	Clay	12	17
Clay with streaks of shale	11	103	Sand	11	28
Sand	7	110	Clay and sand streaks	47	75
Shale	2	112	Sand and fine gravel	49	124
Clay	12	124	Sand and clay streaks	56	180
Sand	55	179	Clay and sand streaks	39	219
Shale	7	186	Sand and clay streaks	16	235
Sand	7	193	Clay and sand streaks	35	270
Shale, sandy with sand streaks	84	277	Sand	30	300
Shale, sandy	77	354	Sand and sandy shale	61	361
Sand	26	380	Shale and sandy shale	46	407
Shale, sandy	3	383	Shale, hard	25	432
Sand	32	415	Sand	10	442
Shale, sandy	16	431	Shale, hard	11	453
Sand	20	451	Sand	34	487
Shale, sandy	11	462	Sand and shale streaks	19	506
Sand	96	558	Lime and shale	7	513
Shale	5	563	Sand and shale streaks	43	556
Sand with streaks of shale	51	614	Shale and sand streaks	55	611
Sand	20	634	Sand and hard streaks	16	627
Shale, sandy	42	676	Shale	36	663
Shale with lime streaks	92	768	Shale and sandy shale	33	696
Shale	93	861			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-60-912—Continued</b>			<b>Well LJ-60-61-102</b>		
			Owner: En Canto Real Utility District Driller: Layne-Texas Co.		
Shale, sandy and sand streaks	31	727			
Shale	11	738			
Sand and sandy streaks	22	760			
Shale	9	769	Shale	33	33
Shale and sand streaks	30	799	Shale and clay	98	131
Sand and sandy shale	30	829	Shale and small sand streak	109	240
Shale, sandy	18	847	Sand and gravel	65	305
Sand and shale streaks	54	901	Shale and lime streak	40	345
Shale, sandy	10	911	Shale	29	374
Sand and shale streaks	20	931	Sand	83	457
Shale	19	950	Sand, shale	37	494
Sand and shale streaks	29	979	Shale	18	512
Shale	18	997	Sand and shale	34	546
Sand	24	1,021	Sand	21	567
Shale	5	1,026	Shale	11	578
Sand and sandy shale	57	1,083	Sand and shale streak	32	610
Shale and sandy shale	20	1,103	Shale	20	630
			Sand and shale	40	670
<b>Well LJ-60-60-913</b>			Shale, sandy	103	773
Owner: Cypress-Klein Utility District Driller: Layne-Texas Co.			Sand	22	795
			Shale	11	806
Surface soil	3	3	Sand and shale streak	27	833
Clay	17	20	Shale	28	861
Shale	60	80	Sand and shale streak	24	885
Sand	115	195	Shale	26	911
Gravel and sand	19	214	Sand and shale streak	14	925
Sand with streaks of clay	12	226	Shale	71	996
Clay, sandy with lignite	90	316	Sand	18	1,014
Sand	76	392	Shale	26	1,040
Clay, sandy	18	410	Sand and shale streak	12	1,052
Sand	215	625	Shale	171	1,223
Sand and shale streaks	120	745	Sand	25	1,248
Sand	15	760	Shale	61	1,309
Shale	10	770			
Sand and clay	10	780			
Shale	10	790			
Clay, sandy	55	845			
Sand	73	918			
Shale	3	921			
Sand	13	934			
Clay, sandy	31	965	Topsoil	4	4
Sand	88	1,053	Unconsolidated	339	343
Clay, sandy	47	1,100	Sand, mixed and gravel	211	554
			<b>Well LJ-60-61-523</b>		
			Owner: T. D. Gardner Driller: Bussell and Son, Inc.		

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well 60-61-524</b>			<b>Well LJ-60-61-525—Continued</b>		
Owner: Northland Shopping Center Driller: Layne-Texas Co.			Clay	16	226
			Sand and clay	84	310
Fill dirt	1	1	Shale, sandy	30	340
Gumbo, black	4	5	Sand	14	354
Clay	6	11	Shale, sandy	33	387
Sand and sandy shale	3	14	Sand and shale streaks	70	457
Shale, sandy and streaks of sand	16	30	Shale, sandy	48	505
Shale and sandy shale	50	80	Shale and sand breaks	73	578
Sand	11	91	Sand	14	592
Sand and sandy shale	32	123	Shale and sand breaks	33	625
Shale	5	128	Shale, broken	45	670
Sand	5	133	Sand and shale	35	705
Shale, sandy and shale	32	165	Shale and sand layers	11	716
Sand and sandy shale	30	195	Rock	1	717
Shale	13	208	Sand and shale	18	735
Sand, gravel and sandy shale	15	223	Shale	53	788
Shale, sandy and streaks of sand	90	313	Sand, broken and shale	27	815
Sand and hard streaks	22	335	Shale	73	888
Rock	1	336	Clay, sandy	21	909
Sand	22	358	Shale	8	917
Rock	1	359	Shale, sandy	13	930
Sand, broken	3	362	Shale and sandy shale	15	945
Shale	18	380	Sand and shale layers	45	990
Sand	34	414	Shale	36	1,026
Shale	9	423	Sand and small layers of shale	61	1,087
Shale, sandy and sand	35	458	Shale	36	1,123
			Sand, broken	40	1,163
			Shale	5	1,168
			Sand	10	1,178
			Shale	7	1,185
			Sand	10	1,195
			Shale	55	1,250
<b>Well LJ-60-61-525</b>			<b>Well LJ-60-61-526</b>		
Owner: Harris County WC and ID No. 99, well 2 Driller: Layne-Texas Co.			Owner: Harris County WC and ID No. 110 Driller: Layne-Texas Co.		
Topsoil	2	2	Clay	10	10
Clay	12	14	Sand	15	25
Sand	14	28	Clay and sand streaks	228	253
Clay	3	31	Shale, rock and sand streaks	87	340
Sand	39	70	Sand, lime and shale streaks	118	458
Shale, sandy	15	85	Shale and sand streaks	42	500
Sand	37	122			
Clay	6	128			
Sand	11	139			
Clay	6	145			
Shale, sandy	33	178			
Sand	32	210			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-61-526—Continued</b>			<b>Well LJ-60-61-611—Continued</b>		
Sand	21	521	Shale, sandy	66	1,026
Shale and sand streaks	15	536	Shale, hard	15	1,041
Shale	14	550	Shale, sandy	24	1,065
Sand and shale streaks	49	599	Shale, hard	29	1,094
Shale	21	620	Sand	28	1,122
Sand, lime and shale streaks	66	686	Shale, sandy	3	1,125
Shale	5	691	Sand, broken	14	1,139
Sand and shale	14	705	Shale, hard	21	1,160
Shale	5	710			
<b>Well LJ-60-61-611</b>			<b>Well LJ-60-61-613</b>		
Owner: Harris County Municipal Utility District No. 82 Driller: Layne-Texas Co.			Owner: Timber Lane Utility District Driller: Layne-Western Co., Inc.		
Topsoil	3	3	Clay	5	5
Clay and sandy clay	84	87	Sand and rock	23	28
Sand	13	100	Clay and sand strips	272	300
Clay, sandy clay and streaks of sand	47	147	Sand	85	385
Sand and streaks of sandy clay	103	250	Sand strips and shale	219	604
Clay and sandy clay	39	289	Sand	96	700
Sand and gravel	31	320	Shale and clay strips	26	726
Clay, sandy	27	347	Sand	184	910
Sand (broken)	40	387	Shale and clay	165	1,075
Clay, sandy and sand streak	23	410	Sand	27	1,102
Sand, hard streak and clay	23	433	Clay and rock	33	1,135
Shale	35	468	Sand	27	1,162
Clay, sandy	21	489	Clay	43	1,205
Sand	11	500			
Clay and sand	49	549	<b>Well LJ-60-61-715</b>		
Clay, sandy	21	570	Owner: Louetta Road Utility District Driller: Layne-Texas Co.		
Clay, hard sandy	25	595			
Sand	15	610	Clay and sandy clay	41	41
Shale and sandy shale	62	672	Sand	35	76
Shale, sandy	28	700	Clay	77	153
Shale, hard	30	730	Sand	20	173
Shale, sandy	15	745	Lime	7	180
Shale	38	783	Sand	57	237
Shale, sandy and streaks of sand	12	795	Shale and gravel	6	243
Shale, hard	10	805	Sand and lime streaks	237	480
Shale, sandy and streaks of sand	45	850	Shale	8	488
Sand	31	881	Sand	12	500
Shale, sandy	40	921	Shale	8	508
Shale, hard	39	960	Sand and shale streaks	112	620

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-61-715—Continued</b>			<b>Well LJ-60-61-717—Continued</b>		
Shale	59	679	Shale	4	1,147
Sand	4	683	Sand	29	1,176
Lime, shale and sand streaks	32	715	Shale	5	1,181
Sand	25	740			
Shale	151	891	<b>Well LJ-60-61-718</b>		
Sand and shale streaks	56	947	Owner: Ponderosa Forest Utility District		
Shale	3	950	Driller: Layne-Texas Co.		
Sand	8	958	Topsoil	3	3
Shale	26	984	Clay and sandy clay	25	28
Sand and sandy shale	34	1,018	Sand and rock layers	21	49
Shale	10	1,028	Rock	2	51
Sand	27	1,055	Sand	9	60
Shale	10	1,065	Clay	28	88
			Sand	20	108
<b>Well LJ-60-61-717</b>			Clay	30	138
Owner: Klein Public Utility District			Sand and shale	71	209
Driller: Layne-Texas Co.			Sand and rock layers	43	252
Clay and sand streaks	78	78	Shale, sticky	19	271
Sand and clay streaks	146	224	Shale, hard	79	350
Sandstone	6	230	Sand	33	383
Sand	20	250	Shale	72	455
Sandstone	8	258	Sand	40	495
Sand	12	270	Shale	9	504
Shale and sand streaks	94	364	Sand	71	575
Shale	71	435	Shale, sandy	8	583
Sand	36	471	Sand and shale streaks	14	597
Shale	32	503	Shale	140	737
Sand	5	508	Sand	31	768
Shale	44	552	Shale, sandy and sand streaks	51	819
Sand and shale streaks	120	672	Sand, shale and hard streaks	12	831
Shale and streaks of lime	123	795	Shale, sandy	20	851
Sand and lime streaks	10	805	Shale, sandy and sand streaks	27	878
Shale	82	887	Shale, sandy	16	894
Sand and sandy shale	57	939	Sand and shale streaks	70	964
Shale	6	945	Shale	7	971
Sand	23	968	Sand and shale streaks	16	987
Shale	16	984	Sand and shale	7	994
Sand	45	1,029	Shale	7	1,001
Shale	16	1,045	Missing	5	1,006
Sand	45	1,090	Sand and shale	30	1,036
Shale	32	1,122	Shale	5	1,041
Sand	21	1,143	Sand and shale streaks	69	1,110



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-61-718—Continued</b>			<b>Well LJ-60-61-827—Continued</b>		
Shale and sand streaks	30	1,140	Sand, broken and shale	35	1,029
Sand	45	1,185	Sand	16	1,045
Shale, hard	20	1,205	Shale	2	1,047
Shale, sandy	43	1,248	Sand	10	1,057
Shale, hard	4	1,252	Sand and shale	23	1,080
Shale, sandy	15	1,267	Shale	15	1,095
Shale	33	1,300	Sand	20	1,115
Shale, hard	19	1,319	Shale	4	1,119
Sand and shale	19	1,338	Shale	121	1,240
Shale, sandy	12	1,350	Shale, sandy	15	1,255
			Shale	95	1,350
<b>Well LJ-60-61-827</b>			<b>Well LJ-60-61-831</b>		
Owner: C.N.P. Utility District Driller: Layne-Texas Co.			Owner: Harris County Municipal Utility District No. 58 Driller: Layne-Western Co., Inc.		
Clay and sand streaks	136	136			
Sand and clay streaks	70	206	Topsoil	13	13
Clay	10	216	Clay	11	24
Shale and sand streaks	16	232	Shale and clay	46	70
Gravel	8	240	Shale, sandy	61	131
Shale	10	250	Shale, sandy	21	152
Sand	52	302	Sand	130	282
Shale	28	330	Clay	10	292
Sand	27	357	Sand	19	311
Shale	3	360	Clay	17	328
Sand	10	370	Clay	5	333
Shale	20	390	Sand	55	388
Sand and shale streaks	208	598	Shale and sandy shale	18	406
Shale and sandy shale	25	623	Sand	16	422
Sand	137	760	Shale with sand streaks	51	473
Shale	17	777	Sand	23	496
Sand	5	782	Shale	53	549
Shale	3	785	Sand	11	560
Sand	3	788	Shale	13	573
Shale	18	806	Shale, sandy	21	594
Shale, sandy	16	822	Shale, hard	38	632
Sand and shale streaks	27	849	Shale, sandy	45	677
Sand	6	855	Shale and sandy shale	29	706
Shale, sandy	29	884	Shale, sandy with sand streaks	7	713
Shale	56	940	Shale	7	720
Sand and shale streaks	19	959	Shale, hard and shale	57	777
Shale	20	979	Shale, sandy with sand streaks	7	784
Shale	15	994	Shale, sandy and shale	8	792



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-61-913—Continued</b>			<b>Well LJ-60-62-403—Continued</b>		
Clay and sand	11	64	Shale, sandy and sand streaks	53	603
Clay	20	84	Shale	27	630
Sand, coarse	30	114	Sand and shale	16	646
Limestone and sand	8	122	Shale	11	647
Limestone and sand	7	129	Sand	40	697
Clay	12	141	Shale	77	774
Clay and sand	3	144	Shale, sandy and sand	26	800
Clay, sand, coarse, shale	19	163	Shale	90	890
Clay streaks and sand	20	183	Shale, sandy	10	900
Sand	11	194	Shale	30	930
Clay and sand streaks	10	204	Lime	2	932
Clay	5	209	Shale, sandy	13	945
Clay and sand streaks	22	231	Shale	68	1,013
Sand	11	242	Sand, broken and shale	15	1,028
Clay	10	252	Rock, lime	2	1,030
Sand	26	278	Sand, (broken)	37	1,067
Clay	63	341	Shale	4	1,071
Sand	23	364	Sand and shale	25	1,096
Clay	78	442	Shale	4	1,100
Sand	49	491			
Clay	48	539			
Sand	45	584	<b>Well LJ-60-62-711</b>		
Sand	5	589	Owner: Tattor Road Utility District		
Clay	5	594	Driller: Layne-Western Co., Inc.		
Sand	30	624	Clay	3	3
Clay	15	639	Sand and clay	59	62
Sand	35	674	Sand and rock	78	140
			Clay	19	159
			Sand	32	191
<b>Well LJ-60-62-403</b>			Clay and sand stripes	29	220
Owner: Harris County Municipal Utility District No. 43			Sand	25	245
Driller: Layne-Texas Co.			Clay and sand stripes	9	254
Clay	60	60	Sand	66	320
Clay and sand streaks	26	86	Clay and sand stripes	92	412
Clay	37	123	Sand	98	510
Clay breaks and sand	122	245	Clay and sand	57	567
Clay	21	266	Clay	23	590
Sand	23	289	Sand and rock	40	630
Shale, sandy and sand	36	325	Clay and sand	30	660
Shale	110	435	Sand	40	700
Shale, sandy	15	450	Sand and clay stripes	50	750
Shale	70	520	Sand and rock	62	812
Shale and sandy shale	30	550	Clay and rock	98	910

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-62-711—Continued</b>			<b>Well LJ-60-62-907</b>		
Sand stripes and clay	40	950	Owner: Harris County WC and ID No. 140		
Clay	30	980	Driller: Layne-Western Co., Inc.		
Sand and rock	13	993	Sand	31	31
Clay and sand stripes	37	1,030	Clay	2	33
Clay	120	1,150	Sand	33	66
<b>Well LJ-60-62-803</b>			Clay	2	68
Owner: Hunters Glen Municipal Utility District			Sand	30	98
Driller: Layne-Texas Co.			Shale	6	104
			Sand	28	132
Topsoil	3	3	Shale	16	148
Clay, red	34	37	Gravel	7	155
Clay streaks and sand	86	123	Shale	6	161
Sand and sandy shale	48	171	Gravel	5	166
Shale	7	178	Shale	5	171
Sand	22	200	Sand and gravel	9	180
Shale	20	220	Shale	3	183
Lime	2	222	Sand	13	196
Shale	35	257	Shale	7	203
Sand and shale streaks	18	275	Sand	33	236
Shale	25	300	Shale	15	251
Sand	18	318	Sand	17	268
Shale	34	352	Shale	7	275
Sand	6	358	Sand	32	307
Shale	7	365	Shale	10	317
Sand	4	369	Sand	21	338
Shale	2	371	Shale	3	341
Sand	35	406	Sand and gravel	24	365
Shale	6	412	Shale	4	369
Sand	12	424	Sand and gravel	23	392
Shale	173	597	Shale	10	402
Sand and shale	81	678	Sand and gravel	58	460
Shale	5	683	Shale	8	468
Sand	15	698	Sand and gravel	68	536
Shale	5	703	Shale	64	600
Sand	9	712			
Shale	14	726			
Sand	64	790	<b>Well LJ-60-63-406</b>		
Shale	53	843	Owner: Kingwood		
Sand and shale (broken)	184	1,027	Driller: Con-Tex Water Well Co.		
Shale and broken sand	52	1,079			
Shale	11	1,090	Clay	10	10
Sand	27	1,117	Sand and gravel	106	116
Shale	33	1,150	Clay and sand streaks	15	131

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-63-406—Continued</b>			<b>Well LJ-60-63-502—Continued</b>		
Sand	14	145	Clay	32	698
Clay, hard streaks	7	152	Sand	132	830
Sand	49	201	Clay	10	840
Rock	1	202	Sand	120	960
Clay	39	241	Clay	11	971
Sand	19	260	Sand	9	980
Shale, green	13	273	Clay	44	1,024
Sand	8	281	Sand	35	1,059
Shale, sandy	7	288	Clay	1	1,060
Sand	3	291			
Shale	10	301	<b>Well LJ-60-63-710</b>		
Sand	30	331	Owner: City of Houston Water Division		
Shale with sand streaks	20	351	Driller: Layne-Western Co., Inc.		
Shale	35	386			
Sand	10	396	Clay and sand	6	6
Shale	7	403	Clay	6	12
Sand	23	426	Sand gravel	13	25
Shale with hard streaks	19	445	Clay "Hard"	11	36
Sand, hard streaks	5	450	Clay	16	52
Sand	20	470	Sand	27	79
Shale	40	510	Clay	15	94
Sand with shale and hard streaks	38	548	Sand strips, "Clay hard"	25	119
Shale	116	664	Clay, blue streak and sand	23	142
Sand, broken and rock	32	696	Sand soft clay	12	154
Sand	10	706	Shale, blue	28	182
Shale and rock	19	725	Sand wood	28	210
Sand, broken	3	728	Shale	49	259
Shale and rock	20	748	Sand	9	268
Sand	6	754	Rock	2	270
Shale and rock	17	771	Sand	12	282
Sand	40	811	Shale	20	302
			Rock and sand streak	7	309
<b>Well LJ-60-63-502</b>			Sand	15	324
			Shale	3	327
Owner: Harris County Utility District No. 5			Sand	11	338
Driller: Layne-Western Co., Inc.			Shale	4	342
Sand	35	35	Shale	8	350
Missing	1	36			
Clay	12	48	<b>Well LJ-60-63-801</b>		
Gravel and sand	32	80	Owner: Harris County Municipal Utility District No. 109		
Sand clay strips	473	553	Driller: Layne-Texas Co.		
Clay	14	567	Sand and sandy shale	123	123
Sand	99	666	Gravel	20	143

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-63-801—Continued</b>			<b>Well LJ-60-63-802—Continued</b>		
Sand	20	163	Shale	11	287
Shale and sandy shale	61	224	Sand	16	303
Sand	20	244	Shale	20	323
Shale	42	286	Sand	53	376
Sand	29	315	Shale	10	386
Shale	10	325	Sand	41	427
Sand	105	430	Shale	10	437
Shale	60	490	Sand	5	442
Shale, sandy and sand	60	550	Shale	31	473
Sand	115	665	Sand	25	498
Sand, shale and sand	45	710	Shale	12	510
Shale	65	775	Sand	5	515
Shale, sandy and sand	50	825	Shale	18	533
Shale	37	862	Shale, sandy	13	546
Sand	17	879	Shale	12	558
Shale and sandy shale	75	954	Sand	12	570
Shale	26	980	Lime	3	573
Shale, sandy and shale	50	1,030	Shale	7	580
Shale	60	1,090	Shale, sandy	25	605
Sand	27	1,117	Sand	45	650
Shale, hard	5	1,122	Shale	4	654
Sand	40	1,162	Sand	22	676
Shale	44	1,206	Shale	183	859
Sand	22	1,228	Sand	13	872
Shale	29	1,257	Shale	4	876
Sand, hard	8	1,265	Sand	29	905
Shale	35	1,300	Shale	14	919
Sand	10	1,310	Sand	29	948
Shale, sandy	10	1,320	Shale	17	965
Shale	20	1,340	Sand	23	988
			Shale	32	1,020
			Shale, sandy	20	1,040
			Shale	8	1,048
			Shale, sandy and shale	82	1,130
			Shale	30	1,160
			Sand and shale breaks	35	1,195
			Shale	155	1,350
			<b>Well LJ-60-64-405</b>		
			Owner: Harris County WC and ID No. 97		
			Driller: Dickson Drilling Co.		
Topsoil	2	2			
Clay	10	12			
Sand	97	109			
Shale	13	122			
Sand	39	161			
Shale	10	171			
Sand	32	203			
Shale	37	240	Topsoil and clay	98	98
Sand	10	250	Sand with shale strips	52	150
Shale	21	271	Missing	5	155
Sand	5	276	Shale	9	164

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-60-64-405—Continued</b>			<b>Well LJ-65-02-615—Continued</b>		
Sand	38	202	Sand	36	124
Shale	10	212	Clay	14	138
Sand	30	242	Sand, gravel and rock	40	178
Shale (hard)	28	270	Clay	14	192
Sand	17	287	Sand	8	200
Shale	8	295	Clay	15	215
Sand with shale strips	45	340	Sand	24	239
Shale	8	348	Shale	11	250
Sand	22	370	Sand and rock	26	276
Shale	38	408	Shale and rock	11	287
Sand	52	460	Clay	52	339
Shale	40	500	Sand and rock	64	403
Sand	52	552	Clay	3	406
Shale	26	578	Sand	28	434
Sand	18	596	Clay	30	464
Shale	24	620	Sand	3	467
Sand	72	692	Clay	35	502
Shale	32	724	Sand	51	553
Sand	14	738	Shale	65	618
Clay	18	756	Sand	3	621
Sand	32	788	Shale	58	679
Shale	14	802	Sand and rock	37	716
Sand with shale strips	86	888			
Shale	10	898			
Sand	22	920			
Shale	32	952			
Sand	16	968			
Shale	32	1,000	Sand	3	3
Sand with shale breaks	46	1,046	Surface clay	12	15
Shale	14	1,060	Sand	5	20
Sand	48	1,108	Clay	6	26
Shale	7	1,115	Sand	5	31
Missing	41	1,156	Clay	19	50
			Sand	33	83
			Clay	8	91
			Sand	20	111
			Clay	3	114
			Sand	17	131
			Clay	15	146
			Sand	22	168
			Clay	10	178
			Sand	76	254
			Clay	92	346
<b>Well LJ-65-02-615</b>					
Owner: F. L. Rogers Estate					
Driller: Layne-Western Co., Inc.					
Surface clay	17	17	Clay	15	146
Sand	7	24	Sand	22	168
Clay	29	53	Clay	10	178
Sand	21	74	Sand	76	254
Clay	14	88	Clay	92	346





**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-03-810</b>			<b>Well LJ-65-03-810—Continued</b>		
Owner: Harris County Municipal Utility District No. 144 Driller: Layne-Texas Co.			Shale, sandy	74	1,048
			Sand and shale streaks	44	1,092
Topsoil	3	3	Shale	24	1,116
Clay, sandy	10	13	Shale and sand streaks	22	1,138
Sand	20	33	Shale, sandy	21	1,159
Clay	15	48	Shale	9	1,168
Sand and gravel	57	105	Shale, sandy	8	1,176
Gravel and clay streaks	12	117	Sand and shale	21	1,197
Sand and hard streaks	68	185	Shale	23	1,220
Gravel, rock and lime	26	211	Shale, sandy	23	1,243
Sand and shale streaks	27	238	Sand and shale	9	1,252
Shale and sandy shale	10	248	Shale, sandy and sand streaks	40	1,292
Rock and sand streaks	11	259	Shale	8	1,300
Lime and sand streaks	14	273			
Sand	7	280	<b>Well LJ-65-03-811</b>		
Sand and shale streaks	11	291	Owner: Harris County Municipal District No. 70 Driller: Layne-Texas Co.		
Sand	43	334	Topsoil	3	3
Shale and sandy shale	95	429	Clay and sandy clay	55	58
Sand and sandy shale	33	462	Sand and gravel	44	102
Sand	13	475	Clay and sand streaks	25	127
Shale, sandy	12	487	Sand, gravel with sand streaks	68	195
Shale and sand streaks	10	497	Clay and sand streaks	57	252
Sand and shale streaks	19	516	Clay, sandy	73	325
Shale, sandy and shale	26	542	Clay	77	402
Sand and sandy shale	55	597	Shale	32	434
Rock and hard shale	5	602	Sand	11	445
Sand and shale streaks	32	634	Shale	11	456
Shale, sandy and sand	21	655	Sand and shale streaks	219	675
Sand and shale streaks	19	674	Shale	16	691
Shale and sand streaks	11	685	Sand	17	708
Sand and shale	14	699	Shale	36	744
Shale	13	712	Sand	27	771
Shale and sand streaks	26	738	Shale	47	818
Sand	15	753	Sand	43	861
Shale	8	761	Shale	21	882
Sand and shale streaks	21	782	Sand	50	932
Shale	4	786	Shale	77	1,009
Shale, sandy	14	800	Sand	39	1,048
Shale	98	898	Shale	32	1,080
Sand and shale streaks	49	947	Sand	9	1,089
Rock	2	949	Shale	7	1,096
Shale	25	974			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-03-811—Continued</b>			<b>Well LJ-65-03-906</b>		
Sand	29	1,125	Owner: Harris County Municipal Utility District No. 149 Driller: Layne-Texas Co.		
Shale	15	1,140			
Shale, sandy	60	1,200	Clay	30	30
			Sand	15	45
<b>Well LJ-65-03-812</b>			Clay	32	77
Owner: Mayde Creek Municipal Utility District Driller: Layne-Texas Co.			Sand	47	124
			Clay and sand streaks	39	163
Sand	5	5	Sand and clay streaks	32	195
Clay	9	14	Sand, gravel and lime streaks	21	216
Sand	104	118	Clay	39	255
Clay	11	129	Sand and clay streaks	46	301
Sand	14	143	Sand and lime streaks	18	319
Clay	33	176	Shale	39	358
Sand	59	235	Sand	20	378
Sand and shale streaks	11	246	Shale and sand streaks	163	541
Shale	11	257	Sand and shale streaks	54	595
Shale and gravel	3	260	Shale	20	615
Shale and sand	47	307	Sand	65	680
Shale and sand streaks	43	350	Shale	8	688
Shale, sandy	86	436	Sand	20	708
Shale	12	448	Shale	22	730
Sand and shale streaks	33	481	Sand and shale layers	102	832
Shale	22	503	Shale	31	863
Shale, sandy	66	569	Sand and streaks shale	19	882
Shale	32	601	Shale	6	888
Shale, sandy	63	664	Sand and shale streaks	27	915
Shale, hard	25	689	Shale	132	1,047
Sand	32	721	Sand, lime and shale streaks	10	1,057
Shale and sand	46	767	Sand, fine, hard	53	1,110
Shale	37	804	Shale	9	1,119
Sand	10	814	Sand	16	1,135
Shale	14	828	Shale and broken sand	15	1,150
Shale, sandy	8	836			
Sand	16	852	<b>Well LJ-65-03-907</b>		
Shale	67	919	Owner: Harris County Municipal Utility District No. 162 Driller: Layne-Western Co., Inc.		
Shale, soft	32	951	Sand and gravel	13	13
Shale	42	993	Clay	11	24
Shale, sandy and shale streaks	26	1,019	Sand	3	27
Shale	146	1,165	Clay	8	35
Shale, sandy	9	1,174	Sand	22	57
Shale	2	1,176	Gravel	22	79
Sand	13	1,189	Clay	127	206
Shale	111	1,300			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-03-907—Continued</b>			<b>Well LJ-65-04-109</b>		
			Owner: Lake Forest Utility District Driller: Layne-Texas Co.		
Gravel	7	213			
Shale	3	216			
Gravel and sand	20	236	Topsoil	4	4
Clay	46	282	Clay	26	30
Gravel	3	285	Sand and clay	160	190
Clay	12	297	Shale	30	220
Sand	4	301	Shale with lime and shale streaks	94	314
Clay	3	304	Sand	19	333
Gravel	2	306	Shale	46	379
Sand and gravel	7	313	Sand and shale streaks	188	567
Shale	28	341	Shale	63	630
Sand, and rock	46	387	Sand	15	645
Rock	46	433	Shale and sand streaks	47	692
Clay	1	434	Sand and shale streaks	15	707
Sand and rock	21	455	Shale and sand streaks	8	715
Shale	39	494	Lime	14	729
Sand and rock	7	501	Sand, shale and lime streaks	29	758
Clay	5	506	Shale	22	780
Sand	21	527	Shale and lime streaks	57	837
Clay	19	546	Sand and lime streaks	38	875
Sand	41	587	Sand, shale and lime streaks	76	951
Clay	21	608	Shale, sandy	10	961
Sand and rock	8	616	Sand and shale streaks	67	1,028
Clay	105	721	Sand and lime streaks	62	1,090
Sand and rock	15	736	Sand and shale streaks	114	1,204
Clay	30	766	Sand, shale and lime streaks	72	1,276
Sand and rock	91	857	Sand	15	1,291
Sand and rock	12	869	Shale	31	1,322
Clay	38	907	Shale and fine sand	88	1,410
Sand and rock	10	917	Sand and lime streaks	25	1,435
Shale and rock	63	980	Shale and shale streaks	60	1,495
Sand and rock	107	1,087	Rock, lime	1	1,496
Shale	16	1,103	Sand and shale streaks	21	1,517
Sand	7	1,110	Shale	5	1,522
Clay	22	1,132			
Sand and rock	62	1,194	<b>Well LJ-65-04-314</b>		
Clay	13	1,207	Owner: Harris County WC and ID No. 116 Driller: Layne-Texas Co.		
Sand	18	1,225			
Clay	15	1,240	Topsoil	4	4
Sand and rock	13	1,253	Clay, sandy	11	15
Clay	111	1,364	Sand and sandy clay	20	35
Clay	32	1,396	Clay and sandy clay	36	71

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-04-314—Continued</b>			<b>Well LJ-65-04-315—Continued</b>		
Sand	20	91	Shale	5	489
Shale, sandy	10	101	Sand	11	500
Sand	5	106	Shale	44	544
Shale	23	129	Sand	10	554
Sand and small gravel	21	150	Shale	2	556
Shale	27	177	Sand and shale	23	579
Sand	40	217	Shale	5	584
Shale, sandy and hard streaks	36	253	Sand	8	592
Sand and gravel and hard streaks	20	273	Shale	16	608
Sand and sandy shale	32	305	Sand	55	663
Shale with sandy streaks	24	329	Shale	7	670
Shale (broken)	31	360	Sand	11	681
Shale with sandy streaks	39	399	Shale	28	709
Sand with streaks of sandy shale	66	465	Sand	14	723
Shale, sandy with sand streaks	9	474	Shale	3	726
Sand	6	480	Sand	30	756
Shale, sandy	5	485	Shale	44	800
Sand	23	508			
Shale, sandy with sandy streaks	12	520			
<b>Well LJ-65-04-315</b>			<b>Well LJ-65-04-417</b>		
Owner: Heatherloch Municipal Utility District			Owner: Tower Oak Bend, well 1		
Driller: Layne-Texas Co.			Driller: Layne-Western Co., Inc.		
			Clay	16	16
			Sand	23	39
Clay	20	20	Clay	15	54
Sand	25	45	Sand	4	58
Clay	21	66	Clay	15	73
Sand	26	92	Sand	17	90
Clay	13	105	Clay	12	102
Sand and clay	10	115	Sand	12	114
Sand	29	154	Clay	3	117
Clay, sandy	21	175	Sand	25	142
Sand	35	210	Clay	4	146
Sand and clay	48	258	Sand	3	149
Clay	8	266	Rock	1	150
Clay, sandy	24	290	Sand, gravel	12	162
Clay	40	330	Clay	8	170
Sand	26	356	Sand	16	186
Shale	46	402	Clay	5	191
Sand	18	420	Sand	45	236
Shale, sandy	45	465	Clay	3	239
Shale	10	475	Sand	19	258
Sand	9	484	Rock	2	260

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-04-417—Continued</b>			<b>Well LJ-65-04-518—Continued</b>		
Clay	47	307	Shale, sandy	35	873
Sand	12	319	Sand	10	883
Clay	4	323	Shale	62	945
Sand	21	344	Sand, fine and layers of shale	42	987
Clay	23	367	Shale	7	994
Sandstone, sand	23	390	Sand, fine and layers of shale	19	1,013
Clay	19	409	Shale, sandy	50	1,063
Sand	4	413	Shale	17	1,080
Clay	7	420	Sand	25	1,105
Sand	21	441	Shale	11	1,116
Sand, stone	4	445	Sand	30	1,146
Sand	6	451	Shale and lime streaks	25	1,171
Clay	40	491	Sand	10	1,181
Sand	18	509	Shale and lime streaks	6	1,187
Missing	39	548	Sand and layers of shale	20	1,207
			Shale	51	1,258
<b>Well LJ-65-04-518</b>			<b>Well LJ-65-04-519</b>		
Owner: Emerald Forest Municipal Utility District			Owner: Reid Road Municipal Utility District		
Driller: Layne-Texas Co.			Driller: Layne-Western Co., Inc.		
Topsoil and clay	15	15			
Sand	19	34	Topsoil	3	3
Clay	43	77	Clay	27	30
Sand	14	91	Sand	8	38
Clay	6	97	Clay	6	44
Sand	27	124	Clay, sandy	60	104
Clay	15	139	Clay	62	166
Sand and gravel	77	216	Rock	1	167
Sand, gravel and lime streaks	75	291	Clay	13	180
Shale	33	324	Sand	95	275
Sand and gravel	27	351	Clay	15	290
Shale	34	385	Sand	48	338
Sand and layers of shale	27	412	Rock	1	339
Shale	19	431	Clay	40	379
Sand, fine	68	499	Sand	71	450
Sand, fine and layers of shale	92	591	Rock	2	452
Shale	26	617	Clay, sandy	9	461
Sand	62	679	Clay	32	493
Shale, sandy	13	692	Clay, sandy	40	533
Sand	22	714	Clay, sandy breaks	77	610
Shale, sandy	23	737	Sand	22	632
Shale	30	767	Clay	16	648
Sand and lime streaks	71	838	Sand	6	654

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-04-519—Continued</b>			<b>Well LJ-65-04-520—Continued</b>		
Clay	26	680	Sand	20	144
Sand	5	685	Clay	14	158
Rock, hard, sand breaks	22	707	Sand and gravel	53	211
Sand	31	738	Clay	8	219
Clay	40	778	Sand and gravel	60	279
Sand	4	782	Clay	57	336
Clay	20	802	Sand and rock	32	368
Rock	1	803	Clay	7	375
Sand	26	829	Sand and rock	50	425
Clay	38	867	Clay	26	451
Sand	13	880	Sand, rock, clay	16	467
Sand, rock, broken	35	915	Sand and rock	10	477
Clay	22	937	Clay	19	496
Sand	10	947	Sand and rock	22	518
Clay	9	956	Clay	22	540
Sand	12	968	Sand and rock	54	594
Clay	12	980	Clay	5	599
Sand	15	995	Sand and rock	53	652
Clay	11	1,006	Clay	98	750
Sand	13	1,019	Sand and rock	26	776
Clay	19	1,038	Clay	20	796
Sand	102	1,140	Sand and rock	61	857
Clay	8	1,148	Clay	80	937
Sand	79	1,227	Sand and rock	118	1,055
Clay	21	1,248	Clay	26	1,081
Sand	4	1,252	Sand and rock	128	1,209
Clay sand streaks	23	1,275	Clay	7	1,216
Clay	25	1,300			

**Well LJ-65-04-521**

Owner: Whiteoak Bend Municipal Utility District  
Driller: Lanford Drilling Co., Inc.

**Well LJ-65-04-520**

Owner: Mills Road Municipal Utility District  
Driller: Layne-Western Co., Inc.

			Sand	4	4
Sand	3	3	Clay	7	11
Surface clay	12	15	Sand	19	30
Sand and rock	20	35	Rock	1	31
Clay	16	51	Clay	29	60
Sand	7	58	Sand	90	150
Clay	10	68	Clay and shale	40	190
Sand	10	78	Sand	20	210
Clay	8	86	Shale	10	220
Sand	30	116	Shale, sandy and sand streaks	60	280
Clay	8	124	Shale	20	300

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-04-521—Continued</b>			<b>Well LJ-65-04-718</b>		
			Owner: Chimney Hill Municipal Utility District Driller: Layne-Western Co., Inc.		
Sand	30	330			
Shale	30	360			
Sand	57	417	Missing	4	4
Shale	23	440	Clay	21	25
Sand	25	465	Sand	8	33
Shale	15	480	Clay	82	115
Sand	100	580	Sand	21	136
Missing	160	740	Gravel and sand	39	175
			Clay	90	265
<b>Well LJ-65-04-613</b>			Sand	16	281
Owner: Northwest Harris County Municipal Utility District Driller: Water Resources, Inc.			Shale	13	294
			Sand	67	361
Topsoil	2	2	Shale	14	375
Shale	36	38	Sand	36	411
Sand	10	48	Shale	24	435
Shale, sandy	155	203	Sand	37	472
Shale	20	223	Shale, lime	29	501
Shale, sandy	25	248	Sand	49	550
Shale	30	278	Shale	5	555
Shale, sandy	40	318	Sand	64	619
Shale	70	388	Shale	250	869
Sand	55	443	Sand	52	921
Shale, sandy	35	478	Shale	83	1,004
Sand	40	518	Sand, shale	50	1,054
Shale, sandy	10	528	Sand	111	1,165
Sand	30	558	Shale	10	1,175
Shale, sandy	10	568	Sand	20	1,195
Sand	150	718			
Shale, sandy	30	748	<b>Well LJ-65-04-808</b>		
Sand	30	778	Owner: Windfern Forest Municipal Utility District, well 1		
Shale, sandy	60	838	Driller: Lanford Drilling Co., Inc.		
Sand	30	868	Sand	2	2
Shale, sandy	10	878	Clay	7	9
			Sand	21	30
<b>Well LJ-65-04-717</b>			Clay, sandy	60	90
Owner: Cameron Iron Works Driller: Bussell and Son, Inc.			Sand, shaley	40	130
			Shale	20	150
Topsoil	3	3	Sand	200	350
Unconsolidated	372	375	Rock	2	352
Sand	10	385	Sand	78	430
Clay	27	412	Shale	35	465
Sand	27	439	Sand	15	480
Clay	10	449	Shale	10	490

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-04-808—Continued</b>			<b>Well LJ-65-04-913—Continued</b>		
Sand	80	570	Sand	29	370
Shale	20	590	Rock and clay	16	386
Sand	40	630	Sand	12	398
Shale	20	650	Clay	13	411
Sand	40	690	Sand	17	428
Shale	30	720	Rock and sand	34	462
Sand	30	750	Clay	4	466
Shale	10	760	Sand	15	481
Sand	65	825	Rock, sand and clay	26	507
Shale	5	830	Sand, good	33	540
			Clay, rock and sand	96	636
			Sand	16	652
			Clay and rock	28	680
			Sand	12	692
			Rock and clay	25	717
Missing	65	65	Sand	34	751
Shale	41	106	Clay	5	756
Sand and shale	182	288	Sand	24	780
Sand and shale	210	498	Clay	1	781
Sand and shale	97	595			
Shale	111	706			
Sand	208	914			
Sand	251	1,165			
Sand and shale	206	1,371			
			<b>Well LJ-65-05-112</b>		
			Owner: Harris County Municipal Utility District No. 44		
			Driller: Layne-Texas Co.		
			Clay and streaks sand	206	206
			Sand and gravel	50	256
			Shale and broken sand	62	318
			Sandy	15	333
			Shale	12	345
			Sand	25	370
			Lime	5	375
			Sand	12	387
			Shale	13	400
			Sand	83	483
			Shale	2	485
			Sand	15	500
			Shale	10	510
			Sand	25	535
			Shale	36	571
			Sand	23	594
			Shale	4	598
			Sand	13	611
			Shale	6	617
<b>Well LJ-65-04-913</b>					
Owner: Larkstone Building Co.					
Driller: B. J. Swinehart Co., Inc.					
Clay	10	10			
Sand	8	18			
Clay	13	31			
Sand	13	44			
Clay	107	151			
Sand	15	166			
Clay	43	209			
Clay and rock	17	226			
Sand	18	244			
Clay and rock	27	271			
Sand	28	299			
Clay	8	307			
Sand, coarse	15	322			
Clay	19	341			



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-05-112—Continued</b>			<b>Well LJ-65-05-113—Continued</b>		
Sand and shale, broken	24	641	Sand and shale streaks	12	452
Shale	90	731	Shale	28	480
Sand and layers shale	33	764	Shale, sandy	38	518
Shale and sand streaks	41	805	Sand and rock streaks	11	529
Shale	112	917	Rock	4	533
Shale, sandy	13	930	Sand and shale	66	599
Sand	30	960	Shale	16	615
Shale	4	964	Sand	21	636
Sand	13	977	Shale and sandy shale	54	690
Shale	22	999	Sand	13	703
Shale, sandy	31	1,030	Shale	7	710
Shale	32	1,062	Shale, sandy and sand	14	724
Lime	9	1,071	Sand and shale streaks	37	761
Shale	14	1,085	Shale, sandy and sand	15	776
Sand	20	1,105	Shale and sand streaks	17	793
Shale	40	1,145	Shale, sandy	10	803
Shale, sandy	29	1,174	Shale	69	872
Shale	132	1,306	Sand and rock layers	23	895
			Shale, sandy and sand	15	910
<b>Well LJ-65-05-113</b>			Sand and hard streaks	35	945
Owner: Harris County Municipal Utility District No. 150			Shale	16	961
Driller: Layne-Texas Co.			Shale, sandy	12	973
			Shale, sandy	33	1,006
Topsoil	2	2	Sand	14	1,020
Clay	16	18	Shale	70	1,090
Clay, sandy	10	28	Shale, sandy	50	1,140
Clay	68	96	Shale	10	1,150
Sand	8	104	Shale	5	1,155
Clay, sandy	8	112	Sand, shale and hard streaks	26	1,181
Sand	30	142	Shale, sandy	11	1,192
Clay, sandy and sand	22	164	Shale	9	1,201
Sand and sandy shale	29	193			
Shale	6	199	<b>Well LJ-65-05-114</b>		
Sand and shale streaks	66	265	Owner: Fountain Head Municipal Utility District		
Sand and hard streaks	20	285	Driller: Bussell and Son, Inc.		
Sand	24	309			
Sand and hard streaks	28	337	Topsoil, clay and sand	20	20
Shale, sandy	6	343	Sand and clay	24	44
Sand and shale streaks	15	358	Sand and clay	48	92
Shale, hard and sand	11	369	Clay	48	140
Sand and hard streaks	36	405	Clay and sand	48	188
Shale and sandy shale	35	440	Sand	24	212

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-05-114—Continued</b>			<b>Well LJ-65-05-215—Continued</b>		
Shale, sand and clay	24	236	Sand	22	299
Clay and sand	24	260	Shale	6	305
Sand and rock	24	284	Sand	13	318
Sand	12	296	Shale, and sand streaks	22	340
			Missing	90	430
<b>Well LJ-65-05-214</b>			<b>Well LJ-65-05-404</b>		
Owner: High Plains Machinery Co. Driller: B. J. Swinehart Co., Inc.			Owner: Northwest Harris County Municipal Utility District No. 1 Driller: Bussell and Son, Inc.		
Clay	10	10			
Sand	7	17	Topsoil	3	3
Clay	70	87	Clay	25	28
Sand	57	144	Unconsolidated	293	321
Clay	37	181	Sand	45	366
Sand, clay streaks	25	206	Sand and hard shale	90	456
Sand	64	270			
Clay	5	275			
Sand	15	290			
Rock, clay and sand streaks	46	336			
Sand	25	361			
Clay, rock	117	478	Topsoil	8	8
Sand	61	539	Clay	4	12
Clay	1	540	Sandstone	3	15
			Clay	4	19
			Clay and sand streaks	12	31
			Sand	9	40
			Clay	3	43
			Sand and clay streaks	7	50
			Clay	13	63
			Sand	4	67
			Clay	2	69
			Sand	3	72
			Clay	6	78
			Sand and clay streaks	31	109
			Clay	17	126
			Sand	4	130
			Shale and sand streaks	5	135
			Sand and shale streaks	14	149
			Shale, hard	5	154
			Sand and shale streaks	12	166
			Shale, hard	14	180
			Shale, sandy	10	190
			Sand and shale streaks	60	250
			Shale, sandy and shale	5	255
<b>Well LJ-65-05-215</b>					
Owner: Harris County Municipal Utility District No. 5, well 2 Driller: Layne-Texas Co.					
Topsoil	5	5			
Clay with gravel	5	10			
Gravel	5	15			
Sand	15	30			
Clay	5	35			
Clay and shale	33	68			
Shale	35	103			
Sand and sandy clay	62	165			
Clay	10	175			
Sand and sandy clay	19	194			
Clay	16	210			
Sand and clay streaks	26	236			
Clay, hard	6	242			
Sand and clay streaks	25	267			
Shale, hard	10	277			

Table 2.—Drillers' Logs of Wells in Harris County—Continued

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
Well LJ-65-05-405—Continued			Well LJ-65-05-405—Continued		
Shale, sticky	11	266	Shale	16	930
Shale, sandy and shale	37	303	Shale and sandstone layers	6	936
Sand and gravel streaks	50	353	Sand and shale streaks	9	945
Shale and sand streaks	41	394	Shale	18	963
Sand and shale streaks	17	411	Sand and shale broken	12	975
Shale, hard	23	434	Shale, soft	19	994
Sand	14	448	Sand	2	996
Shale	8	456	Shale and sand streaks	6	1,002
Shale, sticky	18	474	Shale, blue	44	1,046
Sand and gravel	18	492	Sand	13	1,059
Shale, hard	12	504	Shale, blue, sticky	30	1,089
Shale, sandy	62	566	Sand, hard	13	1,102
Sand and shale streaks	12	578	Shale, sticky	4	1,106
Shale, soft and sand streaks	25	603	Sand	6	1,112
Sand and shale streaks	5	608	Shale	26	1,138
Shale, hard	12	620	Sand	9	1,147
Sand and shale streaks	8	628	Shale	18	1,165
Shale, soft and sand streaks	17	645	Sand	6	1,171
Shale, soft	4	649	Shale, hard	25	1,196
Shale, hard	9	658	Sand	3	1,199
Sand	4	662	Shale, hard, gray and blue	27	1,226
Shale and sand streaks	7	669	Sand and shale streaks	26	1,252
Shale	4	673	Shale, sticky	19	1,271
Shale and sand	7	680	Sand and shale streaks	6	1,277
Shale	4	684	Shale, sticky	65	1,342
Shale and sand streaks	2	686	Sand and shale streaks	4	1,346
Sand and shale streaks	7	693	Sandstone	1	1,347
Sand	3	696	Shale	8	1,355
Sand and shale streaks	14	710	Sandstone	2	1,357
Sand	10	720	Shale, sticky, blue and gray	9	1,366
Sand and shale streaks	16	736	Shale, sandy, broken	1	1,367
Shale and sand streaks	3	739	Shale	10	1,377
Sand	7	746	Sand, clean	28	1,405
Shale, hard and sand streaks	20	766	Shale	17	1,422
Sand	18	784	Sand	3	1,425
Shale	8	792	Shale	10	1,435
Sand	37	829	Sand	36	1,471
Shale and sand streaks	20	849	Shale	11	1,482
Sand, hard and shale streaks	8	857	Sand	29	1,511
Shale	45	902	Shale and sand streaks	3	1,514
Rock and shale layers	12	914	Shale, hard	6	1,520

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-05-514</b>			<b>Well LJ-65-05-514—Continued</b>		
Owner: Forest Hill Municipal Utility District, well 1 Driller: Layne-Texas Co.			Shale	38	1,190
			Shale, sandy and shale	43	1,233
Topsoil	3	3	Shale, sandy and sand	8	1,241
Clay	29	32	Sand and sandy shale	31	1,272
Sand	18	50	Sand and shale	12	1,284
Clay, sandy	60	110	Shale (hard)	16	1,300
Sand	34	144			
Clay	14	158	<b>Well LJ-65-05-515</b>		
Sand	30	188	Owner: Northborough Municipal Utility District Driller: Layne-Western Co., Inc.		
Shale and sand streaks	16	204	Surface	28	28
Shale	24	228	Clay	18	46
Shale, sandy	28	256	Sand and clay	122	168
Sand and sandy shale	34	290	Sand and clay	245	413
Shale	6	296	Clay rock	16	429
Shale, sandy and sand	32	328	Rock and sand	60	489
Shale	17	345	Clay rock	65	554
Sand	14	359	Clay and sand	37	591
Shale	9	368	Sand and rock break	73	664
Sand and sandy shale	37	405	Clay and sand break	75	739
Sand	14	419	Clay	55	794
Sand and lime streaks	81	500	Clay and rock	2	796
Shale and sand streaks	31	531	Rock and clay strip	98	894
Shale, sandy	48	579	Rock and shale	153	1,047
Sand, shale and sand	50	629	Sand and clay	47	1,094
Shale	9	638	Clay and rock	50	1,144
Sand and shale	30	668	Shale	48	1,192
Shale and sand streaks	61	729	Sand and rock	102	1,294
Sand	22	751	Clay strip and sand	28	1,322
Shale	16	767	Shale	22	1,344
Sand and sandy shale	43	810			
Shale	9	819	<b>Well LJ-65-05-615</b>		
Shale and rock streaks	4	823	Owner: Greens Public Utility District, well 1 Driller: Layne-Texas Co.		
Sand and sandy shale	87	910	Topsoil	3	3
Shale, sandy and shale	50	960	Clay	15	18
Shale	65	1,025	Sand	5	23
Sand	17	1,042	Clay and sand streaks	43	66
Shale, sandy	5	1,047	Sand and shale streaks	31	97
Shale	20	1,067	Clay and sand streaks	53	150
Shale, sandy and lime	18	1,085	Shale	57	207
Shale, sandy	7	1,092			
Shale	52	1,144			
Sand and sandy shale	8	1,152			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-05-615—Continued</b>			<b>Well LJ-65-05-617</b>		
			Owner: West Road Improvement District Driller: Layne-Texas Co.		
Shale, sandy	25	232			
Shale	8	240			
Sand and gravel	20	260	Clay	293	293
Shale, sandy	15	275	Sand	24	317
Sand, coarse	40	315	Clay and sand	60	377
Sand	25	340	Shale	10	387
Shale and sand streaks	99	439	Shale, sandy	37	424
Shale and lime streaks	31	470	Shale	13	437
Shale, sandy	31	501	Lime	3	440
Shale	31	532	Shale	24	464
Shale and sand streaks	32	564	Sand	20	484
Sand and shale streaks	20	584	Shale	27	511
Shale and a few sand streaks	71	655	Sand	14	525
Sand	45	700	Shale, sandy	40	565
Shale	25	725	Shale	135	700
Shale and sand streaks	57	782	Sand	52	752
Shale	8	790	Shale	92	844
Sand	37	827	Sand	20	864
Shale	6	833	Shale	20	884
Sand	20	853	Sand	7	891
Rock	1	854	Shale	59	950
Shale	36	890	Sand	27	977
Sand	26	916	Shale	9	986
Shale	10	926	Sand and lime	52	1,038
Sand and shale streaks	34	960	Sand	88	1,126
Shale and a few sand streaks	42	1,002	Shale, broken	79	1,205
Lime	10	1,012			
Sand and shale streaks	30	1,042			
Shale and lime	112	1,154			
Lime	6	1,160			
Shale and a few sand streaks	40	1,200			
Sand and shale streaks	20	1,220	Clay	1	1
Shale and lime streaks	70	1,290	Sand and clay	23	24
Sand and shale streaks	80	1,370	Clay	151	175
Shale and lime	16	1,386	Sand and rock	35	210
Sand, fine and shale streaks	64	1,450	Clay and sand strips	101	311
Shale	50	1,500	Sand and rock	4	315
Shale and fine sand streaks	91	1,591	Clay and rock	40	355
Shale, sandy	95	1,686	Sand and rock breaks	20	375
Shale and lime	24	1,710	Clay	210	585
			<b>Well LJ-65-05-618</b>		
			Owner: Imperial Valley Municipal Utility District Driller: Layne-Western Co., Inc.		



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-05-727</b>			<b>Well LJ-65-05-943</b>		
Owner: Harris County Municipal Utility District No. 15 Driller: Water Resources, Inc.			Owner: Domestic Utility Co., well 1 Driller: B. J. Swinehart Co., Inc.		
Clay, shale and limestone	60	60	Clay, sandy	16	16
Sand and shale	167	227	Sand	30	46
Sand and shale	40	267	Clay	10	56
Sand and shale	227	494	Sand	35	91
Sand and shale	146	640	Clay	50	141
Sand and shale	219	859	Sand	21	162
Sand and sandy shale	210	1,069	Clay	111	273
Sand and shale	136	1,205	Sand	7	280
			Clay	11	291
			Sand	9	300
<b>Well LJ-65-05-822</b>					
Owner: Heather Glenn Utilities Driller: B. J. Swinehart Co., Inc.					
Clay	41	41	Clay	6	306
Sand	11	52	Sand	28	334
Clay	39	91	Clay	2	336
Sand	29	120	Sand, coarse	16	352
Clay	41	161	Clay and rock	38	390
Sand	23	184	Sand	16	406
Clay	65	249	Clay	12	418
Sand, rock	5	254	Sand	24	442
Clay	14	268	Clay	19	461
Sand	13	281	Sand	13	474
Clay	28	309	Clay	6	480
Sand	29	338	Sand	13	493
Clay	17	355	Clay	6	499
Sand	41	396	Sand	10	509
Clay, rock	25	421	Clay	9	518
Sand	25	446	Sand	38	556
Clay	8	454	Clay and rock	205	761
Sand	31	485	Sand	39	800
Clay	11	496	Clay	1	801
Sand	50	546			
Clay	12	558	<b>Well LJ-65-05-944</b>		
Sand	12	570	Owner: Domestic Utility Co., well 2 Driller: B. J. Swinehart Co., Inc.		
Clay	2	572	Clay, sandy	16	16
Sand	13	585	Sand	30	46
Sand, rock	20	605	Clay	10	56
Sand	21	626	Sand	25	81
Clay, sand rock	43	669	Clay	61	142
Sand	26	695	Sand	9	151
Clay	3	698	Clay	40	191
			Sand	9	200

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-05-944—Continued</b>			<b>Well LJ-65-06-313—Continued</b>		
Clay	92	292	Sand streak, clay and lime	10	500
Sand	10	302	Clay	3	503
Clay	7	309	Sand and streaks lime	53	556
Sand	24	333	Clay and lime	3	559
Clay	4	337	Sand, gravel, streaks lime and clay	25	584
Sand	16	353	Clay and sandy clay streaks	48	632
Clay	33	386	Sand, gravel, streak clay and lime	32	664
Sand	20	406	Clay and streak lime	29	693
Clay	16	422	Sand and clay (broken)	15	708
Sand	19	441	Clay and streak sandy clay	105	813
Clay	21	462	Sand, gravel streak lime and clay	67	880
Sand	13	475	Clay and lime streaks	50	930
Clay	5	480	Sand, few streaks lime and clay	96	1,026
Sand	12	492	Clay	2	1,028
Clay	4	496	Sand, streak clay and lime	54	1,082
			Clay, blue	3	1,085
<b>Well LJ-65-06-313</b>			<b>Well LJ-65-06-414</b>		
Owner: City of Humble, well 6			Owner: H. B. Zachery Co.		
Driller: Layne-Texas Co.			Driller: Layne-Texas Co.		
Clay and sandy clay	23	23			
Sand and gravel	10	33	Fill and topsoil	10	10
Rock	3	36	Shale, red	25	35
Clay	23	59	Shale, blue and red	55	90
Sand	8	67	Shale and sand streaks	40	130
Clay	13	80	Sand and shale	21	151
Sand	7	87	Sand	19	170
Clay and sandy clay	11	98	Shale and sand streaks	27	197
Sand and few clay streaks	50	148	Shale	45	242
Clay and sandy clay	15	163	Sand and shale	11	253
Sand, gravel and clay streaks	12	175	Shale	6	259
Clay, sandy clay, few lime streaks	38	213	Sand	30	289
Clay streaks, sandy and sand	23	236	Shale	9	298
Sand and clay streaks	21	257	Sand and shale	48	346
Clay, sandy clay and streaks of lime	15	272	Shale and sand streaks	58	404
Sand and clay streaks	13	285	Shale streaks	10	414
Clay and lime streaks	12	297	Sand and gravel	20	434
Sand and lime streaks	10	307	Sand and shale streaks	30	464
Clay, sandy and lime streaks	48	355	Sand	24	488
Sand and clay streaks	41	396	Sand and shale	46	534
Clay, sandy	4	400	Shale	16	550
Sand, streak lime and clay	82	482	Sand and shale streaks	46	596
Clay and lime	8	490	Sand and shale	13	609



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-06-414—Continued</b>			<b>Well LJ-65-06-417—Continued</b>		
Sand	25	634	Sand, gravel, lime and shale streaks	13	556
Sand and shale streaks	46	680	Lime, rock, hard	5	561
Shale, sandy and gravel	20	700	Shale, lime, rock and sand streaks	4	565
Shale	10	710	Sand, lime and shale streaks	9	574
Sand	50	760	Sand, lime and gravel	15	589
Sand and shale	5	765	Shale, lime and sand streaks	12	601
Shale	5	770	Lime, hard	5	606
			Shale, lime and sand streaks	46	652
			Sand and lime streaks	4	656
			Lime, hard	3	659
<b>Well LJ-65-06-417</b>			Sand and gravel layers	33	692
Owner: North Belt Utility District, well 1			Shale and sand streaks	16	708
Driller: Layne-Texas Co.			Sand and shale streaks	21	729
Topsoil	2	2	Shale, lime and sand streaks	10	739
Clay and rock streaks	8	10	Sand and shale streaks	6	745
Sand and clay streaks	4	14	Shale, lime and hard sand	8	753
Clay, red and yellow	14	28	Shale and sand	15	768
Clay, sandy and rock streaks	5	33	Sand and shale streaks	12	780
Clay and rock streaks	18	51	Lime, sand and shale streaks	14	794
Clay, red with sand streaks	25	76	Sand, gravel with lime and shale streaks	11	805
Clay, red and blue	13	89	Gravel, lime, sand and shale broken	16	821
Clay, soft, gray	9	98	Sand, gravel, lime and shale broken	18	839
Clay, red and blue	10	108	Shale, lime and gravel streaks	5	844
Shale, gray and sand streaks	24	132	Sand, gravel, lime and shale	18	862
Shale, gray	20	152	Shale, limestone and sand streaks	5	867
Shale, brown, sandy	13	165	Sand, sandstone, gravel and shale streaks	38	905
Sand	9	174	Lime, shale and sand streaks	6	911
Shale, brown	21	195	Shale, hard and lime	20	931
Sand, gravel and shale streaks	13	208	Sand, shale and lime streaks	20	951
Shale and sand streaks	11	219	Limestone, hard	3	954
Sand, lime and shale streaks	21	240	Sand, gravel and shale streaks	21	975
Shale, lime and sand streaks	19	259	Shale, hard and lime streaks	15	990
Sand, rock, and shale streaks	33	292	Lime, hard	3	993
Shale and sand streaks	9	301	Shale, hard and lime streaks	8	1,001
Sand, lime and shale streaks	39	340	Rock, lime and hard shale	8	1,009
Sand with little shale	10	350	Lime and hard shale	9	1,018
Shale, brown	7	357	Shale, hard	30	1,048
Sand and gray shale	28	385	Shale, lime and sand streaks	15	1,063
Shale, hard, brown and sand streaks	28	413	Lime, sand and shale streaks	8	1,071
Sandstone, hard	5	418	Sand, shale and lime streaks	9	1,080
Sand and gray shale streaks	17	435	Shale and sand streaks	4	1,084
Shale, gray and sandstone streaks	18	453	Shale and sand streaks	12	1,096
Sand and shale streaks	23	476	Sand and shale streaks	26	1,122
Sand and sandstone streaks	4	480	Shale and sand streaks	24	1,146
Sand and shale streaks	60	540	Shale	8	1,154
Lime, hard	3	543			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-06-522</b>			<b>Well LJ-65-06-523</b>		
Owner: H and H Guest Ranch Driller: Raymond Water Wells			Owner: Douglas Utilities, well 1 Driller: Bussell and Son, Inc.		
Topsoil	5	5	Topsoil	3	3
Clay, red, gray	5	10	Clay	255	258
Clay, yellow and gray	5	15	Sand	26	284
Clay, red, gray	5	20	Sand	11	295
Sand	10	30	Clay	7	302
Clay, red, gray	5	35	Sand	6	308
Sand streaks	2	37	Clay	21	329
Clay, red	7	44	Sand	3	332
Rock streaks	4	48	Clay	33	365
Sand	7	55	Sand	53	418
Clay, red	15	70	Clay	16	434
Clay, gray, red	10	80	Sand	37	471
Sand	5	85			
Clay, red and gray	10	95			
Clay, red and blue	5	100			
Clay, red, yellow	10	110			
Clay, red, gray	5	115	Topsoil	3	3
Clay, yellow	15	130	Unconsolidated	351	354
Clay, red, yellow	15	145	Clay	14	368
Clay, red, gray	15	160	Sand	10	378
Sand	5	165	Clay	21	399
Clay, red, gray	13	178	Sand	20	419
Rock streaks	2	180	Clay	32	451
Clay, red, yellow	15	195	Sand	20	471
Sand	5	200			
Clay, red, yellow	10	210			
Sand	10	220			
Clay, red, yellow	5	225			
Sand	20	245			
Clay, red, yellow	30	275			
Sand	25	300	Topsoil and clay	20	20
Clay, red, gray	25	325	Clay	48	68
Clay, red, yellow	20	345	Clay, unconsolidated and sand	48	116
Clay, red, gray	45	390	Sand	48	164
Sand	10	400	Sand and clay	24	188
Clay, red, gray	22	422	Clay	72	260
Sand	15	437	Clay, sandy	24	284
Clay, red, gray	20	457	Clay	50	334
Sand	20	477	Sand	22	356
Clay, red, gray	16	493	Clay	7	363
Sand	33	526	Sand	17	380

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-06-526</b>			<b>Well LJ-65-06-618—Continued</b>		
Owner: Hydril Co., well 2 Driller: Bussell and Son, Inc.					
Topsoil and clay	20	20	Sand and lime streaks	72	439
Clay	48	68	Shale	4	443
Clay, unconsolidated and sand	48	116	Sand and shale (broken)	43	486
Sand	72	188	Sand, hard and lime streaks	118	604
Sand and clay	24	212	Shale, sandy (broken)	43	647
Clay	24	236	Shale	3	650
Clay, unconsolidated and sand	142	378	Sand	14	664
Shale, unconsolidated and clay	28	406	Shale	56	720
Sand	24	430	Sand	24	744
Shale, unconsolidated and clay	40	470	Shale	68	812
Sand	26	496	Sand	36	848
<b>Well LJ-65-06-617</b>					
Owner: Eldorado Utility District Driller: Birdwell Water Well Service					
Clay, red	84	84	Shale	35	883
Clay, blue	38	122	Shale and sand streaks	27	910
Sand	26	148	Sand	6	916
Clay	3	151	Shale	15	931
Sand	5	156	Sand	15	946
Clay	76	232	Shale	20	966
Sand, fine	18	250	Sand, broken and shale	30	996
Clay	6	256	Sand	62	1,058
Sand, fine	31	287	Shale	7	1,065
Clay	10	297	<b>Well LJ-65-06-723</b>		
Sand, fine	23	320	Owner: American Utilities Driller: B. J. Swinehart Co., Inc.		
Lime	2	322	Clay, yellow	9	9
Sand and lime streaks	9	331	Sand, red	9	18
<b>Well LJ-65-06-618</b>			Clay, red	5	23
Owner: Eldorado Utility District, well 1 Driller: Layne-Texas Co.			Sand, red	15	38
Sand and sandy clay	20	20	Clay	15	53
Clay, red	65	85	Clay, red, yellow	167	220
Clay, sandy	45	130	Sand, fine	11	231
Sand	15	145	Rock	1	232
Clay	77	222	Clay	46	278
Sand	23	245	Sand, fine	11	289
Clay and sandy clay	42	287	Rock	3	292
Clay and sand (broken)	80	367	Sand	5	297
			Clay	10	307
			Sand	9	316
			Clay	5	321
			Sand	42	363
			Clay	2	365

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-06-828</b>			<b>Well LJ-65-06-829—Continued</b>		
Owner: Suburban Home Utilities Driller: B. J. Swinehart Co., Inc.			Shale and sand streaks	30	530
			Sand and shale streaks	35	565
Clay	41	41	Shale and lime	25	590
Sand	15	56	Shale	35	625
Clay	182	238	Shale, sand and lime streaks	190	815
Sand	10	248	Shale and sand streaks	45	860
Clay	11	259	Shale	10	870
Sand	22	281	Sand, shale and lime streaks	190	1,060
Rock	5	286	Shale and sand streaks	62	1,122
Sand	16	302	Sand and shale streaks	16	1,138
Clay	15	317	Shale and sand streaks	15	1,153
Sand	21	338			
Clay	3	341	<b>Well LJ-65-06-908</b>		
Sand	18	359	Owner: Consumers Water Co. Driller: Associated Well Service		
Clay, sand rock	26	385	Soil	2	2
Sand	32	417	Shale, red	101	103
Clay and rock	38	455	Shale, sandy	24	127
Sand, coarse	11	466	Shale	178	305
Clay	46	512	Sand	35	340
Sand, coarse	8	520	Shale, red	7	347
Clay and rock	30	550			
Sand	7	557	<b>Well LJ-65-08-506</b>		
Clay, sand and rock	25	582	Owner: Harris County Municipal Utility District No. 19, well 2 Driller: Layne-Western Co., Inc.		
Sand	24	606	Clay	53	53
Clay	3	609	Clay sand	30	83
Sand, coarse	22	631	Clay	130	213
Clay and rock	44	675	Sand-rock	65	353
Sand	7	682	Sand	30	383
Clay	11	693	Sand, clay	36	419
			Sand	24	443
<b>Well LJ-65-06-829</b>			Sand, shale	30	473
Owner: Harris County WC and ID No. 74 Driller: Layne-Texas Co.			Sand	60	533
Topsoil	2	2	Shale	148	681
Clay	14	16	Sand	42	723
Sand	17	33	Sand, shale	15	738
Shale	67	100	Sand	15	753
Shale and sand streaks	216	316	Sand, shale	65	818
Sand, gravel and sand streaks	32	348	Sand	45	863
Sand and shale streaks	29	377	Shale, sand	50	913
Shale and sand streaks	68	445			
Sand and shale streaks	55	500			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-08-506—Continued</b>			<b>Well LJ-65-08-815—Continued</b>		
Sand	30	943	Shale, sand and lime streaks	22	1,250
Sand, shale	35	978	Shale and lime	26	1,276
Shale	210	1,188	Sand	50	1,326
Sand	32	1,220	Shale	5	1,331
Shale	3	1,223	Shale, sand and lime	5	1,336
			Shale and lime	18	1,354
			Sand	33	1,387
			Shale, fine, sandy and streaks of coarse sand	55	1,442
			Shale	8	1,450
<b>Well LJ-65-08-815</b>			<b>Well LJ-65-10-914</b>		
Owner: Harris County Municipal Utility District No. 19 Driller: Layne-Texas Co.			Owner: Harris County Municipal Utility District No. 81 Driller: Layne-Western Co., Inc.		
Surface soil	3	3			
Clay and few sand streaks	162	165			
Sand	50	215	Surface and clay	15	15
Sand and shale streaks	25	240	Sand and gravel	35	50
Shale	21	261	Sand	50	100
Sand	10	271	Clay	40	140
Shale	24	295	Sand	39	179
Sand	17	312	Clay	58	237
Shale	10	322	Sand	37	274
Sand	52	374	Clay	25	299
Shale, sandy	63	437	Sand	10	309
Shale	31	468	Clay	33	342
Sand	21	489	Sand	60	402
Shale	15	504	Clay	44	446
Sand	52	556	Sand	16	462
Shale	16	572	Clay	48	510
Sand and wood	55	627	Sand	14	524
Shale and few sand streaks	23	650	Clay	25	549
Sand and few shale streaks	113	763	Sand	5	554
Shale and sand streaks	40	803	Clay	20	574
Sand	18	821	Sand	22	596
Shale	14	835	Clay	29	625
Sand	15	850	Sand	15	640
Shale	13	863	Clay	48	688
Sand and shale streaks	20	883	Sand	26	714
Shale and few sand streaks	57	940	Clay	25	739
Sand	16	956	Clay with streaks of sand	25	764
Sand, lime and shale streaks	84	1,040	Clay	36	800
Lime, sand and shale streaks	31	1,071	Sand	124	924
Shale, sandy and lime	110	1,181	Clay	22	946
Sand	15	1,196			
Shale, sand and lime	22	1,218			
Sand	10	1,228			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-10-914—Continued</b>			<b>Well LJ-65-10-915—Continued</b>		
Sand	5	951	Clay	26	1,113
Clay	26	977	Rock	1	1,114
Sand/rocks	29	1,006	Sand	6	1,120
Clay	42	1,048	Clay	40	1,160
Sand	6	1,054	Rock	22	1,182
Clay	50	1,104	Clay	12	1,194
Sand	14	1,118			
Clay	49	1,167			
Sand/rock	17	1,184			
Clay lime and slate	73	1,257			
Missing	91	1,348			
			<b>Well LJ-65-11-108</b>		
			Owner: Harris County Municipal Utility District No. 105		
			Driller: Layne-Texas Co.		
			Clay	20	20
			Sand	15	35
			Clay	25	60
			Sand and gravel	95	155
Sand	4	4	Rock	5	160
Clay	5	9	Sand	10	170
Clay, sandy	33	42	Sand and shale	45	215
Clay, red	49	91	Sand and shale	21	236
Sand	8	99	Shale	61	297
Clay	17	116	Sand and shale	33	330
Sand	154	270	Sand	10	340
Clay lime streaks	252	522	Shale, hard and lime	32	372
Sand	27	549	Sand	13	385
Clay	76	625	Shale and sand streaks	93	478
Sand	45	670	Sand and shale streaks	41	519
Clay	30	700	Shale	21	540
Sand and rock	16	716	Sand, shale streaks	7	547
Clay	32	748	Shale	25	572
Sand	26	774	Sand	84	656
Clay	35	809	Sand, shale streaks	5	661
Sand	29	838	Shale	9	670
Sand	20	858	Sand and shale streaks	28	698
Clay	8	866	Shale	4	702
Sand	26	892	Sand	28	730
Clay	36	928	Shale	57	787
Sand	61	989	Sand	5	792
Clay	48	1,037	Shale and sand broken	114	906
Rock	2	1,039	Shale	52	958
Sand	7	1,046	Shale and sand broken	58	1,016
Sand and rock	2	1,048	Sand and shale	36	1,052
Sand	39	1,087	Shale	98	1,150

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-11-306</b>			<b>Well LJ-65-11-307</b>		
Owner: Harris County Municipal Utility District No.6 Driller: Layne-Texas Co.			Owner: Harris County Municipal Utility District No. 102 Driller: Layne-Western Co., Inc.		
Topsoil	4	4	Sand	3	3
Clay, sandy clay	13	17	Clay	12	15
Sand, gravel, clay streaks	22	39	Sand, gravel	25	40
Clay streaks, sand, gravel	57	96	Clay	4	44
Clay	34	130	Sand, gravel	12	56
Sand, gravel, few clay streaks	38	168	Clay	11	67
Clay, sandy and streak sand	33	201	Sand	15	82
Sand, gravel and clay streaks	12	213	Gravel, sand	83	165
Clay	14	227	Shale	15	180
Sand, gravel, streaks clay and lime	61	288	Sand, gravel	32	212
Clay, sandy and sand	12	300	Shale	14	226
Sand, streaks lime and clay	40	340	Sand	15	241
Clay, sandy	13	353	Clay	35	276
Sand streaks, clay and lime	51	404	Sand	70	346
Clay, streaks lime	94	498	Clay	5	351
Sand, streaks lime and clay	40	538	Sand	17	368
Clay	21	559	Clay	14	382
Sand, streak clay and lime	36	595	Sand	7	389
Clay, streaks lime	45	640	Clay	18	407
Sand, gravel and clay streaks	45	685	Sand	16	423
Clay	15	700	Clay	4	427
Sand, gravel, streak lime	50	750	Sand	62	489
Clay, sandy	10	760	Rock	4	493
Sand, gravel and lime streaks	50	810	Clay	21	514
Clay and lime	25	835	Sand	13	527
Sand, streaks lime and clay	40	875	Clay	17	544
Clay and lime streaks	40	915	Sand	23	567
Sand and lime streaks, clay	20	935	Shale	15	582
Clay and lime	120	1,055	Sand	15	597
Sand, clay and lime streaks	35	1,090	Shale	21	618
Clay and streak lime	80	1,170	Sand	46	664
Sand streaks clay	40	1,210	Clay	8	672
Clay streaks, sand and lime	165	1,375	Sand	19	691
Sand, streak clay and lime	20	1,395	Clay	34	725
Clay, lime streaks	30	1,425	Sand, rock	111	836
Sand, lime and clay streaks	45	1,470	Clay	31	867
Clay, streaks lime	38	1,508	Shale	22	889
Sand, hard, fine gravel and lime	19	1,527	Sand, rock	43	932
Clay	3	1,530	Clay	33	965
Sand, hard, lime and clay	61	1,591	Sand	8	973
Clay, lime streaks	9	1,600	Clay	72	1,045

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-11-307—Continued</b>			<b>Well LJ-65-11-309</b>		
Sand and rock	8	1,053	Owner: Harris County Utility District No. 6, well 2		
Clay	14	1,067	Driller: Layne-Texas Co.		
Sand and rock	19	1,086			
Clay	11	1,097	Fill	6	6
<b>Well LJ-65-11-308</b>			Clay	14	20
Owner: Barker-Cypress Municipal Utility District and Jack Rabbit Road Public Utility District			Sand	20	40
Driller: Layne-Western Co., Inc.			Clay	80	120
Sand	9	9	Sand, gravel, rock and shale	412	532
Clay	29	38	Shale and sand streaks	98	630
Sand	45	83	Sand and shale	32	662
Clay	62	145	Shale	12	674
Sand and rock	30	175	Sand and shale streaks	18	692
Clay	26	201	Shale	13	705
Sand and rock	10	211	Sand and shale streaks	209	914
Shale	58	269	Shale, sandy and lime streaks	49	963
Sand and rock	9	278	Sand	10	973
Clay	43	321	Sand, shale and lime streaks	33	1,006
Sand and rock	10	331	Shale and sand streaks	30	1,036
Clay	8	339	Sand, shale and lime	74	1,110
Sand and rock	29	368	Shale and lime	10	1,120
Clay	10	378	Shale	12	1,132
Sand and rock	20	398	Shale, sand and lime	16	1,148
Shale	8	406	Sand with shale and lime streaks	197	1,345
Sand and rock	105	511	Shale	95	1,440
Clay	7	518	Sand	45	1,485
Sand and rock	12	530	Shale	15	1,500
Clay	27	557	<b>Well LJ-65-11-310</b>		
Sand and rock	12	569	Owner: Northwest Harris Co. M.U.D. No. 16, well 1		
Clay	152	721	Driller: Layne-Western Co., Inc.		
Sand and rock	34	755	Clay, sandy	26	26
Clay	11	766	Sand	10	36
Sand and rock	69	835	Clay, sandy	28	64
Clay	50	885	Sand	66	130
Sand and rock	80	965	Clay	28	158
Clay	49	1,014	Sand, gravel	57	215
Sand and rock	78	1,092	Clay, anhydrite streaks	27	242
Clay	52	1,144	Sand, gravel	28	270



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-11-310—Continued</b>			<b>Well LJ-65-11-407—Continued</b>		
Clay, anhydrite streaks	20	290	Shale	13	745
Sand, gravel	30	320	Shale, sandy	7	752
Clay, anhydrite streaks	100	420	Shale	18	770
Sand, gravel	55	475	Shale, sandy and sand	10	780
Clay gravel	15	490	Shale and sand streaks	80	860
Sand	30	520	Shale, sandy and shale	25	885
Clay	20	540	Shale	89	974
Sand	90	630	Sand	10	984
Clay	20	650	Shale and lime	92	1,076
Sand	31	681	Sand	12	1,088
Clay	9	690	Shale, sandy and lime	14	1,102
Sand, anhydrite streaks	30	720	Shale	27	1,129
Sand	125	845	Sand	14	1,143
Clay, rock streaks	19	864	Shale	1	1,144
			Sand	14	1,158
			Shale	16	1,174
			Shale, sandy	22	1,196
			Shale	24	1,220
<b>Well LJ-65-11-407</b>			<b>Well LJ-65-11-408</b>		
Owner: Harris County Municipal Utility District No. 61			Owner: Fry Road Municipal Utility District		
Driller: Layne-Texas Co.			Driller: Layne-Texas Co.		
Top clay	11	11	Topsoil and clay	14	14
Sand	9	20	Sand, gravel and clay layers	236	250
Clay	7	27	Sand and layer of rock	40	290
Sand	3	30	Shale, sandy and lime	75	365
Sand and clay broken	95	125	Shale (broken) and sand	167	532
Sand	30	155	Shale, hard	30	562
Sand	94	249	Sand and shale streaks	38	600
Shale and sand streaks	69	318	Shale, sandy	10	610
Shale	27	345	Sand and sandy shale	44	654
Sand	13	358	Shale, sandy with streaks of sand	12	666
Sand and lime	27	385	Sand and sandy shale	30	696
Shale	20	405	Shale and sandy streaks	27	723
Sand	12	417	Sand and shale streaks	37	760
Sand, broken and shale	63	480	Sand and layer of shale	45	805
Shale	20	500	Shale, sandy	20	825
Sand, broken and shale	78	578	Shale breaks and sand	148	973
Shale, sandy	22	600	Shale, sandy and sand	21	994
Sand	19	619	Sand and shale streaks	35	1,029
Shale	9	628	Shale	10	1,039
Sand, good	23	651	Sand, sandy shale (cut hard)	22	1,061
Shale	9	660			
Sand	15	675			
Shale	5	680			
Sand	52	732			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-11-408—Continued</b>			<b>Well LJ-65-11-507</b>		
Shale, sandy	5	1,066	Owner: Pine Forest Country Club Driller: Bussell and Son, Inc.		
Sand and sandy shale (cut hard)	26	1,092			
Shale and sand streaks	22	1,114	Topsoil	3	3
Streaks, hard	2	1,116	Unconsolidated	329	332
Sand with hard streaks of shale	33	1,149	Clay	6	338
Shale, sandy	6	1,155	Rock	18	356
<b>Well LJ-65-11-409</b>			Rock	4	360
Owner: Morton Road Municipal Utility District Driller: Layne-Western Co., Inc.			Clay	24	384
			Sand	20	404
			Clay	72	476
Clay, sandy	2	2	Clay and rock	62	538
Sand	32	34	Sand	28	566
Clay	35	69	<b>Well LJ-65-11-508</b>		
Sand	105	174	Owner: Friendswood Development Co. Driller: Layne-Western Co., Inc.		
Clay	22	196			
Sand	23	219	Surface	2	2
Anhydrite, gravel	73	292	Clay	6	8
Sand	62	354	Sand	45	53
Anhydrite, gravel	14	368	Clay and sand	60	113
Sand	18	386	Sand and rock	109	222
Anhydrite, gravel	23	409	Sand and gravel	27	249
Sand	15	424	Clay	17	266
Clay	90	514	Sand	46	312
Sand	13	527	Clay	35	347
Clay	115	642	Sand	27	374
Sand	6	648	Clay	10	384
Clay	78	726	Sand	25	409
Sand	56	782	Clay	90	499
Clay	41	823	Sand	45	544
Sand	10	833	Clay	35	579
Anhydrite, clay	19	852	Sand	60	639
Sand	4	856	Clay	24	663
Clay	123	979	Sand	81	744
Sand	25	1,004	Rock and clay	10	754
Clay	28	1,032	Sand and rock	19	773
Rock	2	1,034	Clay and rock	11	784
Clay	40	1,074	Sand	70	854
Sand, rock streak	30	1,104	Clay and sand strips	10	864
Clay	25	1,129	Sand and rock	36	900
Sand and rock streak	41	1,170	Rock	54	954
Clay	23	1,193	Sand break and rock	60	1,014
Sand	15	1,208	Rock and clay	35	1,049
Clay	86	1,294			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-11-508—Continued</b>			<b>Well LJ-65-11-708—Continued</b>		
Sand and rock	53	1,102	Sand, hard	31	1,025
Clay	66	1,168	Shale, sandy	39	1,064
Sand and rock	34	1,202	Sand	24	1,088
Clay	56	1,258	Shale	32	1,120
Sand and rock	37	1,295			
Clay	26	1,321			
Sand	63	1,384			
Clay and sand strips	222	1,606			
				<b>Well LJ-65-11-914</b>	
				Owner: Harris County Municipal Utility District No. 10	
				Driller: Water Resources, Inc.	
			Clay	24	24
			Sand clay	55	79
			Shale	30	109
			Shale and sand	30	139
			Sand and sandy shale	35	174
			Sand	30	204
			Sand	23	227
			Sand, fine (hard)	107	334
			Ledge, hard	2	336
			Sand	10	346
			Sand	28	374
			Sand and shale	15	389
			Ledge, sand (hard)	15	404
			Sand and gravel	30	434
			Sand, hard	32	466
			Sand and lime	29	495
			Lime and sand	32	527
			Sand	31	558
			Sand, hard	34	592
			Sand	24	616
			Sand (coarse)	90	706
			Sand and shale	31	737
			Sand (hard)	30	767
			Sand	27	794
			Sand	20	814
			Shale, sandy	55	869
			Sand	65	934
			Shale, sandy	20	954
			Sand	80	1,034
			Shale, sandy	90	1,124
			Sand	115	1,239
			Rock, lime	25	1,264
			Shale, sandy	13	1,277

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

		THICKNESS (FEET)	DEPTH (FEET)			THICKNESS (FEET)	DEPTH (FEET)	
		<b>Well LJ-65-11-915</b>		<b>Well LJ-65-12-212—Continued</b>				
		Owner: Memorial West Utility District Driller: Layne-Texas Co.						
Clay	20	20	Clay	9	55			
Sand	10	30	Sand, gravel and streaks clay	46	101			
Clay	70	100	Clay and sandy clay	15	116			
Sand	62	162	Sand and clay streaks	14	130			
Clay	28	190	Clay	26	156			
Sand	10	200	Sand, gravel and streaks clay	44	200			
Shale and sandy shale	133	333	Clay	4	204			
Shale	42	375	Sand, gravel and clay streaks	56	260			
Sand	11	386	Clay	5	265			
Shale	8	394	Sand, gravel, lime and clay streaks	39	304			
Sand and shale streaks	28	422	Clay	42	346			
Sand	41	463	Sand, gravel, streak lime and clay	64	410			
Shale	22	485	Clay	6	416			
Sand	44	529	Sand, gravel, lime and clay streaks	30	446			
Shale and sandy shale	139	668	Clay and lime streaks	14	460			
Sand, fine, hard	58	726	Sand, gravel, lime and clay streaks	60	520			
Lime	8	734	Clay, sandy clay	20	540			
Sand	4	738	Sand, gravel, lime and clay breaks	54	594			
Shale	26	764	Clay and lime	20	614			
Sand	110	874	Sand, lime and clay streaks	22	636			
Shale and broken sand	50	924	Clay and lime	64	700			
Sand	10	934	Sand and streak clay	20	720			
Shale and sand streaks	82	1,016	Clay	14	734			
Shale	4	1,020	Sand, clay and lime streaks	36	770			
			Clay, sandy	6	776			
			Sand and clay (broken)	34	810			
			Sand and streak lime	22	832			
			Clay, sandy	10	842			
			Sand, streak lime and clay	40	882			
			Clay	66	948			
			Sand, clay and lime streaks	52	1,000			
			<b>Well LJ-65-12-516</b>					
			Owner: City of Houston, Katy-Addicks, well 6 Driller: Layne-Texas Co.					
Topsoil	4	4	Clay	15	15			
Clay	22	26	Clay, red, sandy	2	17			
Unconsolidated	314	340	Clay, red and gray	8	25			
Sand, good	36	376	Clay, red and caliche	5	30			
Clay	36	412	Clay, red and gray	57	87			
Sand	10	422	Clay, red and sand	33	120			
Clay	46	468	Clay, gray and red	165	285			
Sand	10	478	Clay, red, sandy	24	309			
Clay and fine sand	48	526	Sand, gravel and clay streaks	13	322			
			<b>Well LJ-65-12-212</b>					
			Owner: Harris County Municipal Utility District No. 25 Driller: Layne-Texas Co.					
Topsoil	3	3	Clay, red and gray	57	87			
Sand	8	11	Clay, red and sand	33	120			
Sand, gravel and streaks clay	35	46	Clay, gray and red	165	285			
			Clay, red, sandy	24	309			
			Sand, gravel and clay streaks	13	322			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-12-516—Continued</b>			<b>Well LJ-65-12-518</b>		
			Owner: City of Houston, Katy-Addicks, well 8 Driller: Layne-Texas Co.		
Clay	28	350			
Sand and clay streaks	16	366			
Sand	74	440	Clay, gray, sandy	11	11
Clay and lime streaks	48	488	Sand, light gray	4	15
Sand	3	491	Clay, light gray	13	28
Clay and lime streaks	67	558	Sand, reddish	12	40
Sand	45	603	Clay, reddish and sand streaks	50	90
Clay	14	617	Sand and clay streaks	32	122
Sand and shale	10	627	Clay and sand streaks	65	187
Shale, red and gray	92	719	Sand	43	230
Shale, sandy	10	729	Clay	18	248
Shale	77	806	Sand and clay streaks	11	259
Shale and sand streaks	6	812	Shale and sand streaks	27	286
Shale	52	864	Sand and sandy shale	29	315
Shale, red and gray	29	893	Shale	13	328
Shale and sandy shale	10	903	Sand	6	334
Sand and clay streaks	10	913	Shale and sandy shale	44	378
Clay and shale	14	927	Shale	27	405
Sand	15	942	Sand	17	422
Shale, sandy	17	959	Shale, sandy	29	451
Sand	24	983	Sand and sandy shale	22	473
Shale, sandy	17	1,000	Shale	8	481
Sand	40	1,040	Sand and sandy shale	9	490
Clay	31	1,071	Shale, sandy	13	503
Clay, sandy	16	1,087	Shale and sandy shale	10	513
Clay	16	1,103	Sand and sandy shale	42	565
Sand (fine)	43	1,146	Shale, hard and rock layers	9	574
Shale	70	1,216	Sand and lime streaks	22	596
Sand (fine)	10	1,226	Shale and lime rock	10	606
Shale and sand streaks	10	1,236	Shale, sandy and lime streaks	8	614
Shale	147	1,383	Shale and sand streaks	50	664
Shale and sand streaks	35	1,418	Shale and sand streaks	19	683
Sand	4	1,422	Sand and shale	20	703
Shale	7	1,429	Shale	30	733
Shale and fine sand	34	1,463	Shale and sandy shale	9	742
Shale, soft	16	1,479	Shale and stick shale	85	827
Shale and fine sand streaks	9	1,488	Shale, sandy	38	865
Shale	20	1,508	Sand and shale	32	897
Shale, sandy	20	1,528	Shale	26	923
Shale	22	1,550	Shale, sandy	12	935
Shale, sandy	10	1,560	Sand and sandy shale	33	968
Shale	40	1,600	Shale	6	974





**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-15-306</b>			<b>Well LJ-65-15-307—Continued</b>		
Owner: Arco Chemical Company					
Driller: Texas Water Wells, Inc.					
Clay	13	13	Sand, hard	19	451
Sand	100	113	Rock	3	454
Shale, sandy	20	133	Clay	16	470
Sand	60	193	Clay and sand	50	520
Shale, sandy	20	213	Sand, hard	20	540
Sand	70	283			
Shale	40	323	<b>Well LJ-65-15-510</b>		
Sand	40	363	Owner: Kayo Services, Inc.		
Shale, sandy	20	383	Driller: Layne-Western Co., Inc.		
Sand	20	403	Surface clay	68	68
Shale	80	483	Sand	29	97
Shale, sandy	40	523	Clay	12	109
Shale	20	543	Sand	96	205
Shale, sandy	30	573	Clay	55	260
Sand	60	633	Sand and rock	23	283
Shale, sandy	20	653	Clay	28	311
Sand	90	743	Sand and rock	64	375
Shale	50	793	Clay	15	390
Sand	30	823	Sand and clay streaks	37	427
Shale, sandy	10	833	Sand	17	444
Shale	80	913	Clay	9	453
Sand	40	953	Sand	18	471
Shale	10	963	Clay	22	493
Shale, sandy	30	993	Sand	15	508
Sand	120	1,113	Clay and shale	18	526
Shale	40	1,153	Sand	7	533
Sand	40	1,193	Clay	12	545
Shale	50	1,243	Sand and clay strips	26	571
Sand	60	1,303	Shale	7	578
Shale	30	1,333	Clay and sand	6	584
Sand	30	1,363	Sand	17	601
Shale, sandy	10	1,373	Sand and clay strips	67	668
Sand	180	1,553	Clay	38	706
Shale	30	1,583	Sand and rock	72	778
Shale sand	10	1,593	Clay	21	799
Shale	50	1,643	Sand and rock	30	829
			Clay	26	855
			Sand and rock	18	873
			Clay	15	888
<b>Well LJ-65-15-307</b>					
Owner: Harris County District No. 48					
Driller: Bussell and Son, Inc.					
Sand, unconsolidated and clay	327	327	Sand	56	944
Sand, hard	13	340	Clay	10	954
Clay and shale	92	432	Sand and rock	53	1,007
			Clay	46	1,053
			Sand and rock	35	1,088



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-15-510—Continued</b>			<b>Well LJ-65-16-114</b>		
			Owner: Arco Chemical Co. Driller: Texas Water Wells, Inc.		
Clay	7	1,095			
Sand	8	1,103			
Shale	13	1,116	Clay	23	23
Sand, hard	62	1,178	Sand	20	43
Sand and strips of clay	9	1,187	Clay	10	53
Sand	18	1,205	Sand	10	63
Clay	8	1,213	Clay and shale	10	73
Sand	75	1,288	Shale	10	83
Clay	10	1,298	Sand	20	103
			Missing	620	723
			Shale, sandy	10	733
			Shale and sand	10	743
			Shale, sandy	10	753
			Shale	10	763
			Sand	10	773
			Shale	30	803
			Sand	70	873
			Shale	20	893
			Sand	70	963
			Shale and sand	10	973
			Shale	10	983
			Sand	30	1,013
			Shale, sandy	10	1,023
			Sand	90	1,113
			Shale, sandy	10	1,123
			Shale	10	1,133
			Sand	20	1,153
			Shale	20	1,173
			Sand	30	1,203
			Shale	10	1,213
			Sand	10	1,223
			Shale, sandy	70	1,293
			Sandy	20	1,313
			Sand	80	1,393
			Shale, sandy	150	1,543
			Sand	10	1,553
			Shale, sandy	90	1,643
			Shale		
			Shale, sandy		
			Sand		
			Shale		

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-16-115</b>			<b>Well LJ-65-16-409—Continued</b>		
Owner: Texas Industries Driller: Bussell and Son, Inc.					
Topsoil	4	4	Shale, sandy	10	463
Unconsolidated	193	197	Sand	10	473
Sand	11	208	Shale	10	483
Clay, red	6	214	Sand and shale	10	493
Clay	18	232	Shale, sandy	20	513
Sand	4	236	Shale	30	543
Clay	8	244	Sand	20	583
Sand (orange)	13	257	Sandy and shale	10	593
Clay (red and white)	55	312	Sand	30	623
Sand (white-hard)	34	346	Shale and sand	10	633
Missing	10	356	Shale	10	643
<b>Well LJ-65-16-409</b>			Sand	90	733
Owner: Arco Chemical Co. Driller: Texas Water Wells, Inc.			Sand and shale	10	743
Clay	13	13	Sand	10	793
Sand	10	23	Sand	90	883
Clay	10	33	Sand and shale	10	893
Shale	10	43	Sand	40	933
Sand	50	93	Shale, sandy	10	943
Shale	10	103	Shale	40	983
Sand	10	113	Shale and sand	10	993
Shale	40	153	Sand, drill good	10	1,003
Sand and shale	10	163	Sand	110	1,113
Sand	20	183	Shale and hard streaks	120	1,233
Shale	20	203	Shale and hard sand	40	1,273
Sand	30	233	Sand	30	1,303
Shale	10	243	Shale and hard sand	10	1,313
Sand	30	273	Shale	80	1,393
Sand and shale	10	283	Shale, sandy	10	1,403
Shale	40	323	Sand	110	1,513
Shale, sandy	10	333	Shale	20	1,533
Sand	30	363	Shale	50	1,583
Sand and shale	10	373	Shale	60	1,643
Shale	40	413	<b>Well LJ-65-16-410</b>		
Shale, sandy	10	423	Owner: American Plant Food Company Driller: B. J. Swinehart Co., Inc.		
Shale	10	433	Surface sand	20	20
Sand	10	443	Clay	3	23
Shale	10	453	Sand	7	30
			Clay	80	110
			Sand	15	125

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-16-410—Continued</b>			<b>Well LJ-65-19-308—Continued</b>		
Clay	1	126	Sand	44	141
Sand	59	185	Clay and few sand streaks	47	188
Clay	1	186	Sand	42	230
Sand	23	209	Shale	20	250
Clay	34	243	Sand and shale streaks	87	337
Sand	42	285	Shale	5	342
Clay	1	286	Sand	10	352
			Shale and sand streaks	18	370
			Sand and few shale streaks	222	592
			Shale, sand and lime streaks	95	687
			Sand, shale streaks and lime streaks	133	820
			Shale and few sand streaks	107	927
<b>Well LJ-65-19-307</b>					
Owner: Shell Development Company, well 1					
Driller: Layne-Texas Co.					
Topsoil	4	4	Sand, fine	39	966
Clay	4	8	Shale, fine, sandy	65	1,031
Sand	20	28	Sand	6	1,037
Sand	72	100	Sand and shale streaks	74	1,111
Shale and sand streaks	90	190	Shale, hard and lime	15	1,126
Sand	91	281	Sand	24	1,150
Shale	20	301	Shale and lime	14	1,164
Sand	31	332	Sand	25	1,189
Shale	15	347	Sand and few shale streaks	87	1,276
Sand and gravel	120	467	Shale and sand streaks	36	1,312
Sand with streaks of shale and lime	63	530			
Shale	10	540			
Sand	20	560			
Shale	10	570			
Sand with streaks of shale and lime	398	968			
Shale	62	1,030			
Sand and shale streaks	33	1,063	Surface	4	4
Shale and sand streaks	75	1,138	Clay	9	13
Sand	17	1,155	Sand and clay	61	74
Shale and sand streaks	41	1,196	Sand	21	95
Sand, fine and shale streaks	86	1,282	Clay	10	105
Shale and sand streaks	38	1,320	Sand	21	126
			Clay	32	158
			Sand	63	221
			Clay	10	231
			Sand	33	264
			Clay	28	292
			Sand	35	327
			Clay	18	345
<b>Well LJ-65-19-308</b>					
Owner: Shell Development Company					
Driller: Layne-Texas Co.					
Topsoil	4	4	Sand	74	419
Clay	13	17	Clay	27	446
Sand	7	24	Sand	18	464
Clay	42	66	Clay and shale	13	477
Clay and sand streaks	31	97			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-19-309—Continued</b>			<b>Well LJ-65-19-310—Continued</b>		
Sand	22	499	Sand with few shale	135	440
Clay	14	513	Shale, sand and lime streaks	60	500
Shale	25	538	Sand with few shale and lime streaks	130	630
Sand	46	584	Shale, sand and lime	55	685
Clay	22	606	Lime	5	690
Sand	28	634	Shale	40	730
Clay and sand	14	648	Sand and lime streaks	13	743
Clay	11	659	Shale	3	746
Sand	60	719	Sand	54	800
Shale	5	724	Shale	18	818
Clay	12	736	Sand	5	823
Sand	39	775	Shale	5	828
Clay	17	792	Sand	29	857
Sand	16	808	Shale	83	940
Clay	72	880	Sand shale and shale	13	953
Sand	32	912	Sand	8	961
Clay	27	939	Shale	14	975
Sand	15	954	Sand, shale and shale	25	1,000
Clay	20	974	Shale	20	1,020
Sand	20	994	Sand with shale and lime streaks	68	1,088
Sand and rock	59	1,053	Shale	20	1,108
Clay	11	1,064	Sand and shale streaks	32	1,140
Sand and rock	40	1,104	Shale	20	1,160
Clay	5	1,109	Sand	16	1,176
Sand and rock	55	1,164	Shale	16	1,192
Clay	10	1,174	Sand with shale and lime streaks	92	1,284
Sand and rock	32	1,206	Sand and sand shale	22	1,306
Clay and rock	12	1,218	Shale	12	1,318
Sand	30	1,248			
Clay	16	1,264			
Sand	8	1,272			
Clay	29	1,301			
			<b>Well LJ-65-19-311</b>		
			Owner: Harris County Municipal Utility District No. 120 Driller: Layne-Texas Co.		
			Clay	36	36
			Clay and sand streaks	60	96
			Sand	32	128
			Shale	77	205
			Sand	16	221
			Shale	32	253
			Sand and gravel	123	376
			Sand and shale streaks	209	585
			Shale	135	720
			Sand	62	782
<b>Well LJ-65-19-310</b>					
Owner: Chelford One Municipal Utility District, well 1 Driller: Layne-Texas Co.					
Surface	2	2			
Clay	6	8			
Sand and clay streaks	212	220			
Shale	20	240			
Sand and shale streaks	40	280			
Shale and sand streaks	25	305			



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-20-224—Continued</b>			<b>Well LJ-65-20-322—Continued</b>		
Clay	25	180	Sand	10	349
Sand and rock	10	190	Shale	70	419
Clay	20	210	Sand	30	449
Sand	145	355	Shale	60	509
Clay and rock	10	365	Sand	30	539
Sand and rock	175	540	Shale	20	559
Clay	10	550	Sand	10	569
Sand and rock	62	612	Shale	10	579
Clay	8	620	Sand	10	589
Sand	24	644	Shale	20	609
Clay	16	660	Sand	20	629
Sand and clay stripes	55	715	Shale	10	639
Clay	10	725	Sand	20	659
Sand and rock	80	805	Shale	10	669
Clay	16	821	Sand	10	679
Sand and rock	49	870	Shale	10	689
Clay	28	898	Sand and shale	10	699
Sand and rock	24	922	Shale	10	709
Clay and sand stripes	53	975	Sand	10	719
Sand and rock	47	1,022	Shale	10	729
Clay	143	1,165	Sand and shale	30	759
Sand and rock	39	1,204	Sand	30	789
Clay	1	1,205	Shale	10	799
			Sand	30	829
			Sand and shale	10	839
			Sand	10	849
			Shale	20	869
			Sand and shale	20	889
Missing	19	19	Shale	10	899
Clay	20	39	Sand	10	909
Sand	20	59	Sand and shale	50	959
Shale	20	79	Shale	20	979
Sand	20	99	Sand and shale	10	989
Sand and shale	10	109	Shale	30	1,019
Sand	50	159	Sand and shale	10	1,029
Shale	20	179	Shale	30	1,059
Sand	20	199	Sand and shale	20	1,079
Shale	20	219	Shale	160	1,239
Sand	10	229	Shale and sand	10	1,249
Shale	10	239	Sand	30	1,279
Sand	10	249	Sand and shale	10	1,289
Shale	10	259	Shale	10	1,299
Sand	50	309	Sand and shale	10	1,309
Shale	20	329	Sand	20	1,329
Sand and shale	10	339			

**Well LJ-65-20-322**  
 Owner: City of Houston  
 Driller: Texas Water Wells, Inc.

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-20-322—Continued</b>			<b>Well LJ-65-20-413—Continued</b>		
Sand and shale	20	1,349	Sand	50	150
Shale	60	1,409	Shale	7	157
Sand and shale	10	1,419	Sand and gravel	40	197
Shale	70	1,489	Sand and shale	36	233
Sand and shale	20	1,509	Shale	20	253
Shale	80	1,589	Sand and streaks shale	97	350
			Shale and sand streaks	21	371
			Sand and streaks shale	187	558
			Shale and lime streaks	17	575
			Sand	4	579
			Sand, broken and clay	27	606
			Sand and streaks shale	79	685
			Shale	7	692
			Sand and shale streaks	214	906
			Shale	94	1,000
			Sand	6	1,006
			Shale, breaks of sand	40	1,046
			Sand, red and shale	90	1,136
			Shale	91	1,227
			Sand and streaks shale	93	1,320
			Shale	5	1,325
<b>Well LJ-65-20-412</b>			<b>Well LJ-65-20-414</b>		
Owner: Harris County WC and ID No. 11 Driller: Layne-Texas Co.			Owner: Harris County Municipal Utility District No. 123 Driller: Layne-Western Co., Inc.		
Surface	2	2			
Clay	6	8			
Sand	30	38			
Clay	4	42			
Sand and clay streaks	34	76			
Clay	24	100			
Sand	18	118			
Clay and sand streaks	79	197			
Shale	12	209			
Gravel	26	235			
Shale and sand streaks	126	361			
Sand	70	431			
Shale and sand streaks	47	478			
Rock	1	479			
Sand, fine, gravel and lime streaks	98	577	Clay	4	4
Shale, sandy	53	630	Sand and clay	18	22
Sand and shale	99	729	Sand	122	144
Shale	10	739	Sand and clay strips	50	194
Sand and shale streaks	141	880	Clay	113	307
Shale	18	898	Sand	41	348
Sand and shale streaks	71	969	Clay and sand	96	444
Sand	14	983	Sand	13	457
Shale	141	1,124	Clay	17	474
Shale and sand streaks	38	1,162	Sand and rock break	40	514
Shale	48	1,210	Clay	80	594
			Sand and clay strips	12	606
			Clay	48	654
			Sand and rock break	5	659
			Sand	45	704
			Clay strips and sand	95	799
			Sand	18	817
			Shale and clay	217	1,034
<b>Well LJ-65-20-413</b>					
Owner: Bissonnet Municipal Utility District Driller: Layne-Texas Co.					
Topsoil	4	4			
Sand	36	40			
Shale	60	100			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-20-414—Continued</b>			<b>Well LJ-65-20-807—Continued</b>		
Shale and rock	78	1,112	Sand and shale streaks	41	924
Sand	14	1,126	Shale	7	931
Sand	28	1,154	Sand and shale streaks	93	1,024
			Shale	23	1,047
			Sand and shale	36	1,083
			Shale	76	1,159
<b>Well LJ-65-20-516</b>			<b>Well LJ-65-21-143</b>		
Owner: Harris County WC and ID No. 90 Driller: Layne-Western Co., Inc.			Owner: City of Houston, Southwest, well 1 Driller: Layne-Texas Co.		
Surface	3	3			
Clay	6	9			
Sand	24	33	Clay	82	82
Clay and sand	121	154	Sand	24	106
Clay	20	174	Clay and sandy clay	47	153
Sand	80	254	Sand and clay streaks	12	165
Clay	72	326	Shale	10	175
Sand and clay	58	384	Sand and shale streaks	39	214
Sand	30	414	Shale, sandy and sand	37	251
Clay	40	454	Shale	33	284
Sand and rock	130	584	Shale and sandy shale	55	339
Clay and rock	13	597	Shale and sand breaks	83	422
Sand and rock	67	664	Shale, sandy	62	484
Clay	30	694	Shale and lime	63	547
Sand and rock	10	704	Sand and shale	30	577
Clay and rock	39	743	Shale, sandy and hard streaks	23	600
Sand	210	953	Sand and lime streaks	47	647
Clay	6	959	Shale	13	660
			Sand	7	667
			Shale	19	686
			Sand and sandy shale	17	703
			Shale and sandy shale	15	718
			Sand	16	734
			Shale, hard and lime	53	787
			Shale, sandy	10	797
			Sand	85	882
			Sand and shale streaks	42	924
			Shale	28	952
			Sand and shale streaks	37	989
			Shale and sandy shale	28	1,017
			Sand	20	1,037
			Shale	27	1,064
			Sand and shale streaks with lime streaks	11	1,075
			Shale, sandy	22	1,097



**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-21-143—Continued</b>			<b>Well LJ-65-21-144—Continued</b>		
Sand	13	1,110	Sand	6	775
Sand and shale streaks	9	1,119	Shale	11	786
Shale, sticky	6	1,125	Sand	42	828
Shale, sandy and sand	13	1,138	Shale	14	842
Shale	19	1,157	Shale, sandy and shale	12	854
Sand and shale streaks	45	1,202	Sand and sandy shale	8	862
Shale, sticky	7	1,209	Shale	15	877
Sand and shale streaks	61	1,270	Sand	10	887
Shale	47	1,317	Shale and sand	16	903
Sand and sandy shale	9	1,326	Sand	42	945
Shale	5	1,331	Shale	22	967
Sand, hard	14	1,345	Sand and sandy shale	21	988
Shale	43	1,388	Shale, sandy	13	1,001
Sand	23	1,411	Sand and shale streaks	45	1,046
Shale	3	1,414	Shale	25	1,071
Sand	81	1,495	Shale, soft	9	1,080
Shale	21	1,516	Sand and sandy shale	16	1,096
Shale, sandy	9	1,525	Shale and sand streaks	16	1,112
			Sand and shale streaks	33	1,145
			Shale	14	1,159
			Sand	75	1,234
			Shale	40	1,274
			Shale and sand streaks	10	1,284
			Sand	9	1,293
			Shale	6	1,299
			Shale and sand streaks	28	1,327
			Sand and sandy shale	13	1,340
			Shale	4	1,344
			Sand, fine and sandy shale	34	1,378
			Shale	55	1,433
			Sand and sandy shale	36	1,469
			Shale	31	1,500
			<b>Well LJ-65-21-145</b>		
			Owner: Builders Supply		
			Driller: Raymond Water Wells		
Clay	28	28	Clay, black	6	6
Gravel	18	46	Clay, gray	11	17
Clay	26	72	Sand	7	24
Sand	16	88	Clay, red and white	6	30
Sand and hard streaks	27	115	Sand	36	66
Clay	13	128	Clay, red	14	80
Sand and sandy clay	103	231			
Shale, sandy and sand streaks	97	328			
Sand	12	340			
Shale, sandy	84	424			
Sand and shale	49	473			
Shale	37	510			
Sand	28	538			
Shale	11	549			
Shale, sandy and sand	61	610			
Shale	39	649			
Sand	20	669			
Shale	12	681			
Sand and gravel	56	737			
Shale	32	769			

**Table 2.—Drillers' Logs of Wells in Harris County—Continued**

	THICKNESS (FEET)	DEPTH (FEET)		THICKNESS (FEET)	DEPTH (FEET)
<b>Well LJ-65-21-145—Continued</b>			<b>Well LJ-65-21-416—Continued</b>		
Sand	39	119	Shale, sandy	145	1,238
Clay, blue and log	26	145	Shale and lime	40	1,278
Sand	5	150	Sand and sandy shale	65	1,343
Shale, white	12	162	Sand	60	1,403
Sand	8	170	Shale	15	1,418
Shale, red and white	28	198	Sand	70	1,488
Sand	52	250	Sand	65	1,553
Shale, blue and white	30	280	Shale	14	1,567
Sand	18	298	Shale, sandy	73	1,590
Shale, red and blue	42	340	No record	15	1,605
Sand	15	355			
Shale, red and blue	15	370			
Sand	10	380			
Shale, red	30	410	<b>Well LJ-65-21-624</b>		
Sand	10	420	Owner: International Tools		
Shale, red	5	425	Driller: Almeda Water Well Service		
Sand	36	461	Soil and fill	5	5
			Clay	15	20
			Clay, sandy	18	38
			Clay, red, blue, red	147	185
			Sand	15	200
			Clay	86	286
			Sand	50	336
			Clay	1	337
<b>Well LJ-65-21-416</b>					
Owner: City of Bellaire, well 6					
Driller: Layne-Western Co., Inc.					
Clay	53	53			
Sand	20	73			
Clay, sandy	10	83			
Clay, red	151	234			
Sand and clay	89	323			
Clay and sand streaks	90	413			
Sand and clay	90	503			
Sand	90	593			
Sand with shale streaks	90	683	Soil and fill	2	2
Shale and sand	69	743	Clay, gray to red	62	64
Shale, sandy	47	790	Sand, fine, red	8	72
Sand	53	843	Clay, red	47	119
Shale, sandy	40	883	Sand, fine, brown	25	144
Shale, sandy	30	913	Clay, red and blue	55	199
Sand	20	933	Sand, white	10	209
Shale	5	938	Clay, blue	7	216
Shale, sandy	25	963	Sand, white	36	252
Sand with shale streaks	20	983	Clay, blue	17	269
Shale	45	1,028	Sand, white	32	301
Sand	10	1,038	Clay, blue	3	304
Shale, sandy	55	1,093	Sand, white	17	321