

TEXAS BOARD OF WATER ENGINEERS

C. S. Clark, Chairman
John W. Pritchett, Member
E. V. Spence, Member

DEAF SMITH COUNTY, TEXAS

Records of wells, drillers' logs, water analyses,
and map showing locations of wells.

Prepared in cooperation with the United States Department
of the Interior, Geological Survey
October 1946

RECORDS OF WELLS IN DEAF SMITH COUNTY, TEXAS

By

W. H. Alexander, Jr.

October 1946

An investigation of the occurrence and development of ground water for irrigation in the Texas High Plains, of which the territory comprising Deaf Smith County is a part, has been in progress since 1937 as a part of a state-wide program of investigation of the ground-water resources of Texas by the Texas Board of Water Engineers in cooperation with the United States Geological Survey. The results of these investigations covering most of the irrigated areas of the Plains have been published in a series of five progress reports, the first of which was released in 1938 and the last in 1945. A similar report for 1946 is in the course of preparation.

This publication contains records of 709 wells and springs of which 404 wells are equipped with pumping plants; drillers' logs of 54 wells; chemical analyses of water from 95 wells; and results of periodic water level measurements in 54 observation wells. It includes a description of all irrigation wells that were active during September 24, 1945 to December 18, 1945, and in March 1946 when a field investigation was made by the writer. Records of 455 wells in the county were published in a similar report in November 1938.

The well information is compiled in tables of well records, drillers' logs, water level fluctuations and water analyses. A map of the county is included showing by various symbols the locations of all wells listed, each well being given a number on the map corresponding to the number assigned to it in the tables.

The following information is included in the table of well records: well number, location and depth of well, names of owner and driller, length and size of casing, depth to the water level in observation wells on given dates, method of lift and use of water. In the "remarks" column the items of information include the size of the pump, diameter of the pump column, depth of pump setting, yield of pump in gallons a minute, drawdown in the water level during pumping, and the number of acres irrigated from the well.

The tables of water level measurements give the results of measurements made in February or March of each year from 1937 to 1946. Most of the heavy pumping for irrigation in Deaf Smith County occurs during the summer. Therefore, measurements in February or March, before the start of spring irrigation, give the best information regarding net changes in water levels from year to year.

The water analyses were made under the supervision of E. W. Lohr or W. W. Hastings, District Chemists of the Quality of Water Division of the Geological Survey, and Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry of The University of Texas. The results of the analyses relate to the mineral constituents in the water and not to its sanitary character.

W. L. Broadhurst, Associate Geologist in the Geological Survey, gave valuable assistance toward planning the field work and compiling the well records and D. B. Knowles, engineer with the Texas Board of Water Engineers, assisted in the compilation of the records. Thanks are due the owners of wells and pumping plants in Deaf Smith County who have given their cordial assistance and cooperation. Representatives of many pump companies have contributed freely of their records, and several well drillers have furnished important information.

A limited number of copies of this report are available for free distribution. They may be obtained by addressing a request to Mr. C. S. Clark, Chairman, Texas State Board of Water Engineers, 302 West 15th Street, Austin 14, Texas.

Records of wells and springs in Deaf Smith County, Texas
All wells are drilled unless noted in the remarks column

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
1	44 miles northwest	Rock Island R.R.	F. A. Luce	1911	344	12	--
2	40 miles northwest	Lendergin Bros. Co.	--	Old	33	6	2
3	do.	do.	--	Old	31	6	1.5
5	41½ miles northwest	do.	--	Old	31	6	3
6	43½ miles northwest	do.	--	Old	31	4½	3
9	do.	do.	--	--	35	4½	1
10	do.	do.	--	--	36	4½	1
11	43 miles northwest	do.	--	--	53	4½	1.5
12	do.	do.	--	Old	28	4½	1.3
13	41 miles northwest	do.	--	Old	--	4½	--
14	39 miles northwest	do.	--	Old	7	60	1
15	37½ miles northwest	do.	--	Old	20	6	--
17	33 miles northwest	L. T. Davis	J. W. Adrien	1938	199	5	--
19	31½ miles northwest	do.	do.	1938	273	--	--
20	33 miles northwest	do.	--	Old	400	--	--
21	30½ miles northwest	J. G. Fortenberry	--	--	264	4½	1.5
22	33 miles northwest	J. W. Adrien	"Colonel" Owens	1933	255	--	--
23	do.	do.	J. W. Adrien	1938	280	--	--
24	do.	do.	- McNew	1929	418	--	--
25	33½ miles northwest	do.	J. W. Adrien	1938	248	--	--
26	do.	do.	"Doc" Reeves	1934	220	--	--
27	do.	do.	J. W. Adrien	1938	255	--	--
28	33 miles northwest	J. N. Couch	--	Old	256	4½	2.1

a/ Measuring point was usually top of casing, top of pipe clamp or top of pump base or foundation.

b/ Method of lift: T, turbine; Cf, centrifugal; C, cylinder; G, gasoline, oil or butane; Ng, natural gas; E, electric; D, diesel; W, windmill; H, hand; number indicates horsepower.

Well	WATER	LEVEL	Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
1	--	--	C, Steam	Ind	Yield reported 100 gallons a minute at Glenrio. See log.
2	19.5	June 7, 1946	None	N	
3	19.7	do.	None	N	
5	24.4	do.	C,W	D,S	Water level measured while pumping one-fourth gallon a minute.
8	14.2	do.	None	N	
9	15.3	do.	C,W	S	
10	16	do.	None	N	
11	25.8	do.	C,W	S	Water level measured while pumping about 2 gallons a minute.
12	26.5	do.	None	N	Water level measured while well 10 feet to the north was pumping.
13	--	--	C,W	S	
14	4.4	June 7, 1938	C,W	S	
15	--	--	C,W	S	
17	d/183	--	C,W	D,S	Supplies about 700 head of cattle. Water reported in red sand, from
19	--	--	None	N	Small supply reported in "red beds" at 190 to 199 feet.
20	--	--	None	N	Drilled as test well. Dry.
21	258.2	June 2, 1938	C,W,G, -	S	Water level measured while pumping 2½ gallons a minute. Irrigates
22	--	--	None	N	"Red beds" reported at 140 feet. garden.
23	--	--	None	N	Small supply reported from seeps in "red beds" at 218 feet.
24	--	--	None	N	Salty water reported in "red beds" at 240 feet. Yield reported 8
25	--	--	None	N	Drilled as test well, "red beds" at 220 feet. barrels a day.
26	--	--	None	N	Do. Dry.
27	--	--	None	N	Small supply reported in sand from 228 to 243 feet. "Red beds at 243
28	239.7	June 13, 1938	None	N	feet.

c/ Use of water: Irr, irrigation; Ind, industrial; P, public supply; D, domestic; S, stock; N, not used.

d/ Water level reported.

e/ Measured by engineers of Resettlement Administration.

Records of wells and springs in Deaf Smith County -- Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
29	32½ miles northwest	Fay McIntire	--	--	207	4½	1.5
30	30 miles northwest	W. F. Fisher	--	1929	265	4½	--
31	28½ miles northwest	Mary V. Palmer	--	Old	170	4½	0.5
32	28 miles northwest	N. O. Phillips	Joe Rydell	--	316	4	0
34	28 miles northwest	W. G. Hindman	--	Old	258	4½	1.5
35	27 miles northwest	J. P. Collier	--	Old	310	4½	--
36	29 miles northwest	E. Kinsey	--	1918	780	4	--
37	27½ miles northwest	N. C. Knox	--	Old	252	4½	0.5
38	26½ miles northwest	J. Heiselman	--	Old	270	--	2
39	24½ miles northwest	M. & G. A. Hare	--	Old	300+	5	--
40	23 miles northwest	R. P. Maxey	--	--	93	4½	0
41	22 miles northwest	H. Powell	--	1928	300+	5	2
42	24 miles north	O. H. Loyd	--	Old	209	4	0
43	22½ miles north	J. Schwartz	--	--	--	4½	--
44	20 miles north	H. P. Canode	--	Old	192	5	1.5
45	18 miles north	R. E. Wagoner	--	Old	152	4	--
46	17 miles north	W. S. Spears	--	Old	180	4	0.8
47	18 miles north	First State Bank of Vega	--	Old	--	4	--
48	19½ miles northwest	B. Calwell	"Colonel" Owens	--	255	4	3
49	18 miles northwest	Cappock & Coleman	--	1930	203	4½	1.5
51	16½ miles north	Texas Land & Mortgage Co.	--	--	141	4½	2
52	15½ miles north	do.	--	Old	--	5	--
53	15 miles north	do.	--	Old	156	4½	0.8
54	15½ miles north	do.	--	--	181	4½	0.8
57	14½ miles northwest	J. N. Hodges	--	Old	--	--	--
58	do.	G. W. Mills	A. B. Hayes	1937	272	15½	0

Well	Water Level	Below	Date of	Method	Use	of	water	Remarks
	(ft.)	surface	measurement	of	of	lift		
29	187.9		Apr. 5, 1937	None	N			
30	$\bar{d}/230$			C, W, G	D, S			
31	169.3		June 2, 1938	None	N			
32	285.4			C, W	N			Water in red quicksand at 291 feet.
34	256.5+		June 2, 1938	C, G,	S			
35	--			C, W	D, S			Irrigates garden.
36	--			C, W	D, S			Do.
37	231		June 15, 1938	None	N			Water-level measurement questionable.
38	230		do.	C, W	D, S			Do.
39	--			C, W	D, S			
40	76.1		Nov. 25, 1937	None	N			
	65.9		June 17, 1943					
41	235.5		June 14, 1938	C, W	D, S			
	235.2		June 17, 1943					
42	191.8		June 15, 1938	C, W	D, S			
43	--			C, W	D, S			
44	180.9		June 14, 1938	C, W	N			
45	$\bar{d}/147$			C, W	D, S			
46	172.5		July 5, 1938	None	N			
47	--			C, W	S			
48	219.4		June 14, 1938	C, W	D, S			
	219.1		June 17, 1943					
49	191.9		Sept. 15, 1937	C, W	D, S			
	190.2		Sept. 17, 1943					
51	126.1		Sept. 17, 1943	None	N			
52	--			C, W	D, S			
53	142.8		July 5, 1938	None	N			
54	162.1		do.	None	N			
57	--			C, W	S			
58	198		Sept. 15, 1937	L, G,	Irr	80		Cased to 260 feet. Yield reported 700 to 750 gallons a minute in 1937.

Records of wells and springs in Deaf Smith County--continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring Point above ground (ft.) ^{a/}
59	13½ miles northwest	J. L. Duggan	A. B. Hayes	1937	265	15½	1.5
60	11 miles north	J. H. Hutson	Jim Mauk	1925	150	6	--
61	do.	J. G. Lewis	--	Old	133	4½	1.5
62	10 miles northwest	Federal Farm Loan Mortgage Co.	--	--	147	--	--
63	11 miles northwest	R. R. Wills	--	Old	166	--	1.2
66	18 miles northwest	M. E. Ranson, et al	--	Old	--	4½	--
67	19 miles northwest	S. F. Williams	--	Old	170	--	--
68	20 miles northwest	do.	"Colonel" Owens	1918	246	5	--
70	21½ miles northwest	--	do.	1918	365	4½	--
72	24 miles northwest	Ed. McCaskey	--	Old	300+	4½	1.1
73	do.	W. J. Williams	--	Old	270	4½	--
74	25 miles northwest	do.	--	Old	271	4½	0.6
75	26 miles northwest	do.	--	Old	270	4½	--
76	28½ miles northwest	H. P. Hurs	--	Old	272+	5	6
78	31½ miles northwest	W. F. Hammons	--	Old	270	5	0.8
79	32 miles northwest	Elizabeth Bippus	--	Old	161	4½	1
80	33½ miles northwest	G. A. Welch	--	Old	300	4½	--
82	30½ miles northwest	Kansas City Life Ins. Co.	--	Old	220	5	1.2
85	32½ miles west	C. L. Syndicate	J. W. Adrian	1938	240	5	--
86	37½ miles west	Landergin Bros. Co.	--	--	178	5	1.5
87	do.	do.	--	--	178	4½	1.3
88	37 miles north	do.	--	Old	300	4½	--
89	11½ miles northwest	R. B. Miller	Don R. Combs	1945	290	16	--
101	24½ miles north	I. Rasco	--	Old	150	--	--
102	24 miles north	W. M. Stewart	--	--	179	4½	2
103	21½ miles north	J. E. Hill	--	--	172	--	1

Well	W/FR	LEVEL	Date of measurement	Method of lift	Use of water	Remarks
		(ft.)		b/	of	
59		199.6	Nov. 26, 1937	L, G, 80	Irr	Estimated yield 500 gallons a minute in 1937.
60		100			D, S	
61		129.1	July 5, 1938		None	
62		120			N	
63		155	July 14, 1938		N	Water-level measurement questionable.
66					S	
67					S	
68		237			D, S	
70					D, S	Supplies 200 head of cattle.
72		271.9	July 7, 1938		S	Water-level measurement questionable.
73		250			D, S	
74		245.4	July 7, 1938		S	Water-level measurement questionable.
75		250			S	
76		153.2	June 2, 1938		N	
78		264.1	do.		D, S	
79		258.7	do.		N	
80		260			D, S	
82		204.4	July 8, 1938		N	
85					D, S	Supplies 2,000 head of sheep.
86		167.6	Apr. 1, 1937		N	
87		166.5	June 7, 1937		N	
88					S	
89		160	Aug. --, 1945	L, G, 110	Irr	Pump set at 200 feet, 8-inch column. Yield reported 1100 gallons a minute.
90					D, S	Irrigates small garden.
92		144.6	June 3, 1938		N	
103		168.9	June 3, 1938		N	
		168.4	Feb. 19, 1943		None	

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)e/
104	20 miles north	Ford Public School	--	--	165	--	--
105	do.	J. E. Hill	--	Old	158	4½	0.8
106	24 miles north	Kansas City Life Ins. Co.	--	Old	136	5	--
107	24½ miles north	J. E. Dyer	--	Old	148	4½	3
108	23½ miles north	D. H. Loyd	--	Old	142	4½	1.5
109	21 miles north	H. W. Wilson	--	--	162	4½	1.3
110	do.	Great Southern Life Ins. Co.	--	Old	108	--	0.3
111	24½ miles north	J. J. Currie	--	Old	128	4½	1
113	12½ miles north	A. S. Higgins	-- McDade	1937	162	15	0.9
115	25½ miles northeast	H. E. Floyd	--	1915	170	4	0.3
117	do.	C. L. Garrison	--	Old	159	4½	1
119	24 miles northeast	L. C. Moore	--	Old	--	--	--
120	22 miles northeast	G. L. Muse	--	Old	--	--	--
121	do.	N. L. Barnes	--	Old	139	4	1.3
122	do.	W. M. Grabbe	Bud Gibbons	1937	200	13	1
123	18½ miles northeast	C. Hodges	--	--	Seep springs	--	--
124	20½ miles northeast	G. L. Muse	--	Old	40	--	--
125	21½ miles northeast	R. L. Campbell	--	--	--	--	--
126	21½ miles northeast	do.	--	Old	--	--	--
127	18 miles northeast	Federal Life Ins. Co.	--	--	81+	--	0.5
128	18 miles northeast	M. H. Byrum	--	--	30+	5	0.8
130	21 miles north	Deaf Smith County School	--	--	140	4½	0
131	17 miles north	Elmer Womble	--	1937	210	--	--
132	15½ miles north	W. Forwell	--	Old	--	--	--
133	17 miles north	First National Bank of Hereford	--	Old	120	5	0.3

Well	Water Level	Below Date of measurement	Method of lift	Remarks
	(ft.)		of water	
104	150	--	P	
105	149.7	Dec. 3, 1937	C, W	N
106	--	--	C, W	S
107	140.4	June 21, 1938	C, W	N
108	128.1	do.	None	N
109	151.4	June 3, 1938	C, W	N
				Observation well.
110	96.9	do.	C, W	N
111	112.5	June 21, 1938	C, W	S
113	98.3	Nov. 9, 1937	None	N
				Drilled for irrigation well. Reported yield 300 gallons a minute in 1937. Observation well.
115	143.1	June 21, 1938	C, W	D, S
117	142.2	June 3, 1938	C, W	D, S
119	--	--	C, W	D, S
120	--	--	C, W	S
121	114.8	June 3, 1938	C, W	N
122	110	Dec. 4, 1937	F, G, 50	Irr
				Pump set at 150 feet, 8-5/8 inch column.
123	Flows	--	None	S
				Estimated flow 20 gallons a minute in 1937.
124	125	--	C, W	S
125	--	--	C, W	D, S
126	--	--	C, W	D, S
				Irrigates garden.
127	73.5	Nov. 28, 1937	C, W	N
128	24.1	Nov. 28, 1937	C, W	S
				In Palo Duro Creek bottoms.
130	130	June 3, 1938	C, W	P
				Observation well.
131	112	--	F, G, 100	Irr
				Pump set at 140 feet. Estimated yield 1000 gallons a minute and measured pumping level 134 feet in 1938.
132	--	--	C, W	S
133	100.8	July 6, 1938	C, W	D, S
				June 23, 1943

Records of wells and springs in Deaf Smith County, continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
134	19½ miles north	J. E. Hill	--	--	141	6	1
135	do.	do.	--	--	--	--	--
137	17 miles north	A. E. Benson	--	Old	142	4½	0.1
138	15 miles north	B. C. Aylor	--	--	--	--	--
139	16½ miles north	J. F. Morris	--	Old	130	4½	1.5
140	18½ miles north	Byron Gist	W. D. Muncey	1937	270	14	0.8
141	18 miles north	do.	--	1938	--	--	--
142	16½ miles north	J. S. Orr	--	Old	164	--	0.5
143	15½ miles north	B. C. Aylor	--	--	137+	5	0.5
144	15 miles north	do.	--	--	169	4½	0.3
145	11½ miles north	J. R. Higgins	--	Old	148	5	1.5
146	10 miles north	Ward Public School	--	Old	145	5	0.3
147	14½ miles north	B. C. Aylor	--	--	131	5	1
148	13½ miles north	Dennis C. Bernard	Edd Raef	1937	190	18	3.2
149	12 miles north	V. N. Flenniken	Bishop and Whitman	1937	200	15½, 13	1.2
150	10½ miles north	D. Thompson	--	--	--	--	0.6
151	11 miles north	Robert Veigel	-- Witt	1937	181	16	1.5
153	do.	A. S. Higgins	L. McDade	1937	175	16, 12	--
154	10 miles north	Dr. F. E. Bowe	L. Ellis	1937	144	14	2
155	12 miles north	J. L. Woodford	-- McDade	1937	160	12½	1
156	12½ miles north	H. G. Conkwright	--	--	--	--	--
157	14½ miles north	J. F. Hickman	--	Old	--	4½	--
159	11 miles northeast	do.	-- McDade	1937	160	16, 14, 12	5
160	12½ miles northeast	do.	--	Old	101	5	0.2
161	14½ miles northeast	John R. Mayo & Walter Galley	D. L. McDonald	1918	150	26	2.8

Well	WATER LEVEL	Date of measurement	Method of lift	Use of water	Remarks
134	Below	June 3, 1938	None	N	
135	Below		C, W	D, S	
137	Below	July 18, 1938	C, W	N	
138	Below		C, W	S	
139	Below	July 6, 1938	C, W	D	
140	Below	Oct. 31, 1937	C, G	N	Water in fine-grained red sand at 217 feet. Reported to have pumped sand until casing collapsed.
141	Below		L, G	Irr	
142	Below	July 6, 1938	C, W	N	
143	Below	Mar. 22, 1937	C, W	S	
144	Below	May 27, 1938	None	N	
145	Below	July 5, 1938	C, W	N	
146	Below	Nov. 26, 1937	None	N	
147	Below	July 5, 1938	C, W	N	
148	Below	Mar. 12, 1938	L, G	Irr	Pump set at 140 feet. Estimated yield 800 gallons a minute in 1937.
149	Below	Nov. 24, 1937	L, G	Irr	Pump set at 150 feet. Estimated yield 1200 gallons a minute in 1937.
150	Below	May 27, 1938	C, W	N	Observation well.
151	Below	Dec. 3, 1937	L, G	Irr	Pump set at 120 feet. Estimated yield 800 gallons a minute in 1937.
153	Below	Oct. --, 1937	L, G	Irr	Cased from 113 feet to bottom. Pump set at 130 feet. Estimated yield 800 gallons a minute in 1937.
154	Below	Nov. 9, 1937	L, G	Irr	Measured yield 650 gallons a minute in 1945.
155	Below	Mar. 8, 1946	L, G	Irr	Pump set at 120 feet. Measured yield 863 gallons a minute, and pumping level 125 feet in 1937.
156	Below		C, W	S	
157	Below		C, W	D, S	
159	Below	Nov. 28, 1937	L, G	Irr	Pump set at 120 feet. Estimated yield 750 gallons a minute in 1937.
160	Below	July 6, 1938	C, W	N	
161	Below	May 20, 1936	L, G	Irr	Pump set at 136 feet, 8 1/4-inch column. Estimated yield 1000 gallons a minute in 1945.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) _g /
162	14 miles northeast	Raymond Harrah	D. L. McDonald	1937	230	16	1
163	do.	Paul Artho	-- McDade	1935	145	14	3.5
165	15 miles northeast	Lee Harrah	Bishop & Whitman	1937	180	16	---
166	16½ miles northeast	J. M. White	J. Mauk	1937	200	14½	1.5
167	17½ miles northeast	Daniels Public School	--	--	110	--	1
168	17 miles northeast	Mrs. J. F. Matthews	-- Ellis	1937	167	14, 12	1.5
169	15½ miles northeast	J. T. Gilbreath, Jr.	Jim Mauk	1937	180	16	--
170	14 miles northeast	Herbert Friemel	Bishop & Whitman	1937	150	14	--
171	20 miles north	H. D. Hill	Hereford-Johnston Pump Co.	1946	277	16	--
172	23 miles north	B. C. D. Bynum	--	1940	350	16	--
173	21½ miles northeast	R. L. Campbell	Bud Gibbons	1941	251	16	1
174	do.	W. T. Smith	Plains Land Roller Co.	1946	185	16	--
175	22 miles northeast	O. K. Higgins	William Stoker	1941	200	16	1
176	20½ miles northeast	do.	-- Muncey	1939	150	26	1
177	19½ miles northeast	F. A. Paul	-- Ellis	1946	180	14	2
178	18 miles northeast	W. P. Axe	--	Old	106	--	0.5
179	do.	J. H. Cheatem	L. Ellis	1940	196	16	--
180	18½ miles northeast	W. F. Axe	W. D. Jones	1944	200	12	1
181	20 miles northeast	Toy E. Price	Hereford-Johnston Pump Co.	1945	193	16	--
182	16½ miles northeast	Owen P. Smith	do.	1946	212	16	--
183	16 miles north	John F. Hickman	do.	1944	210	16	2
184	16½ miles north	do.	Plains Land Roller Co.	1945	200	16	1
185	11¾ miles north	J. R. Higgins	Malcolm Jones	1940	250	16	4.5
186	12½ miles north	V. N. Flenniken	E. Scott	1945	215±	16	0
187	11½ miles north	Emmett C. Smith	Bud Gibbons	1941	214	14	--

Well	WATER	LEVEL	Method of lift b/	Use of water c/	Remarks
	Below land surface	Date of measurement			
162	71.6	Nov. 27, 1937	Cf-	Irr	Gravel-walled well. Yield reported 1000 gallons a minute in 1937.
163	82	June 18, 1936	T, E, 30	Irr	Pump set at 115 feet, 8-inch column. Estimated yield 750 gallons a minute
165	d/92	Oct. 1937	T, G, 60	Irr	Pump set at 120 feet, 8- in 1937. inch column. Yield reported 900 gallons a minute in 1937.
166	95.9	Nov. 26, 1937	T, G, 50	Irr	Pump set at 140 feet. Estimated yield 800 gallons a minute in 1937.
167	87.7 87.6	Dec. 4, 1937 Feb. 19, 1944	C, W	P	
168	96.6	Nov. 26, 1937	T, G, 85	Irr	Pump set at 110 feet. Estimated yield 750 gallons a minute in 1937.
169	d/90	--	T, G, 50	Irr	Pump set at 126 feet, 8-inch column. Estimated yield 800 gallons a minute
170	85	Sept. 26, 1939	T, E, 30	Irr	Pump set at 110 feet. Meas- in 1937. ured drawdown 27 feet while pumping
171	d/120	Mar. 5, 1946	T, G, 104	Irr	850 gallons a minute in 1939.
172	d/140	--	T, G, 100	Irr	Pump set at 180 feet, 10-inch column.
173	127.8	Mar. 8, 1946	T, G, 100	Irr	Pump set at 170 feet, 8-5/8-inch column. See log.
174	d/128	do.	T, G, 160	--	Well not completed when visited on March 8, 1946.
175	109.9	Dec. 14, 1945	T, G, 55	Irr	Pump set at 140 feet, 8-5/8-inch column. Yield reported 1,000 gallons a
176	15.5	do.	T, G, 40	Irr	In creek valley. Pump set minute. at 80 feet, 8-inch column.
177	96.1	Mar. 8, 1946	--	--	No pump installed when visited on March 8, 1946.
178	89.2	Dec. 6, 1939	C, W	D, S	
179	d/91	Dec. 1940	T, G, 40	Irr	Pump set at 130 feet, 9-inch column.
180	93.7	Mar. 8, 1946	T, G, 50	Irr	Pump set at 150 feet, 8-inch column.
181	d/93	Apr. 1945	T, G, 100	Irr	Pump set at 170 feet, 9-inch column.
182	--	--	T, G, 60	Irr	Pump set at 140 feet, 8-inch column.
183	102.7	Mar. 8, 1946	T, G, 50	Irr	Pump set at 150 feet, 9-inch column.
184	103.4	do.	T, G, 64	Irr	Pump set at 152 feet, 8 1/4-inch column. Yield reported 1,100 gallons a minute
185	143.8	Nov. 9, 1945	T, G, 110	Irr	Pump set at 200 feet, 9-inch column.
186	131.1	Mar. 6, 1946	--	--	Drilled for irrigation. No pump installed when visited on March 6, 1946
187	d/125	Feb. 9, 1941	T, G, 40	Irr	Pump set at 160 feet, 8-5/8-inch column. Yield reported 1,000 gallons a minute in 1941. See log.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) e/
188	11½ miles north	J. B. Allison	Bud Gibbons	1940	208	13	--
189	11 miles north	A. S. Higgins	-- Scott	1946	200	16	1
190	10¾ miles north	Fred Y. Moreman	A. Scott	1940	200	16	1
191	10 miles north	Thomas J. Bradford	--	1940	200	16	1
192	12¾ miles north	W. R. Hastings	Don R. Combs	1945	202	16	1
193	13½ miles north	Colby Conkwright	Bud Gibbons	1941	212	16	1
194	13¼ miles north	Thomas F. West	-- Ellis	1940	200	16	1
195	14 miles north	Carl Straufuss	Jess Muncey	1940	308	16, 8	--
196	12¾ miles north	A. D. Gudgenheim	--	1940	212	14	1
197	do.	do.	Hereford-Johnston Pump Co.	1944	210	16	1.5
198	12½ miles north	do.	do.	1944	210	16	1.5
199	9¾ miles north	W. C. Russell	Bud Gibbons	1940	185	14	--
200	11½ miles north	J. L. Woodford	Plains Land Roller Co.	1945	208	18	--
201	8½ miles north	W. R. Hastings	Jones & Evans	1937	200	16	1.5
202	8½ miles north	E. M. Haile	Jim Mauk	1936	120	15	5
202a	7½ miles north	W. Jenkins	Fish & Campbell	1938	214	16	4
203	7 miles north	--	--	--	49	6	0.3
204	do.	W. A. Senter	-- McDade	1937	120	--	4.5
205	9½ miles north	J. L. McGee	L. Ellis	1937	200	14	1.8
206	8 miles northeast	J. L. Click	Green Machinery Co.	1937	150	16	--
207	9 miles northeast	Charles B. Miles	Jim Mauk	Old	108	24	0.4
208	do.	J. L. Click	-- McDade	1936	140	12½	--
209	8½ miles northeast	L. B. Drake	-- Muncey	1937	194	15	0.8

Well	Below	Date of	Method	Use	Remarks
WATER LEVEL	Level	measurement	of	of	
(ft.)	surface		lift	water	
			or		
188	Q/110	Apr. 1940	L, G,	Irr	Pump set at 150 feet, 8-5/8-inch column. See log.
189	109	Mer. 6, 1946	L, G,	Irr	Pump set at 160 feet, 8-inch column.
190	114.8	Mer. 6, 1946	L, G,	Irr	Pump set at 150 feet, 8-inch column.
191	97.7	do.	L, G,	Irr	Pump set at 150 feet.
192	113.8	do.	L, G,	Irr	Pump set at 150 feet, 8-inch column. Yield reported 1,000 gallons a minute.
193	114.8	do.	L, G,	Irr	Cased to 200 feet. Pump set at 140 feet, 8-5/8-inch column. Yield reported 1,000 gallons a minute in at 140 feet, 8-5/8-inch column. Yield reported 1,000 gallons a minute in Pump set at 140 feet. See log.
194	Q/115	Oct. 1940	L, G,	Irr	Pump set at 140 feet, 8-inch column.
195	Q/123	Nov. 1940	G, W,	S	Cased to 252 feet. Drilled for iron-Getton but not completed. Gravel reported at 308 feet. Pump set at 140 feet, 8-5/8-inch column.
196	103.3	Mer. 8, 1946	L, G,	Irr	Pump set at 140 feet, 8-5/8-inch column.
197	101.1	do.	L, G,	Irr	Pump set at 150 feet, 8-inch column.
198	99.7	do.	L, G,	Irr	Do.
199	Q/78	Oct. 1940	L, G,	Irr	Pump set at 110 feet, 8-5/8-inch column. Measured drawdown 22 feet after pumping 850 gallons a minute for 14 days. Pump set at 144 feet, 8-5/8-inch column. Yield reported 1,100 gallons a minute. Pump set at 140 feet, 8-5/8-inch column.
200	Q/108	May 1945	L, G,	Irr	Pump set at 144 feet, 8-5/8-inch column. Yield reported 1,100 gallons a minute. Measured drawdown 19.5 feet after pumping about 800 gallons a minute for 120 hours in 1937. See log.
201	101.5	Dec. 11, 1937	L, G,	Irr	Pump set at 140 feet, 8-5/8-inch column.
202	69.8	Nov. 9, 1937	L, E,	Irr	Measured drawdown 19.5 feet after pumping about 800 gallons a minute for 120 hours in 1937. See log.
202a	79.1	Dec. 12, 1945	L, G,	Irr	Pump set at 130 feet, 8-5/8-inch column.
203	42.2	Apr. 4, 1937	None	N	Iron casing.
204	54.9	Nov. 9, 1937	L, E,	Irr	Estimated yield 800 gallons a minute in 1937.
205	74.2	do.	L, G,	Irr	Estimated yield 800 gallons a minute in 1937. Observation well.
206	Q/63	Sept. 1937	L, E,	Irr	Estimated yield 750 gallons a minute in 1937.
207	53.7	June 16, 1936	L, G,	Irr	Pump set at 85 feet. Measured draw-down 16 feet while pumping about 800 gallons a minute in 1936. Pump set at 100 feet. Estimated yield 1,000 gallons a minute in 1936.
208	Q/65	1936	L, G,	Irr	Estimated yield 750 gallons a minute in 1937. Pump removed in 1945.
209	52	Nov. 12, 1937	None	N	Estimated yield 750 gallons a minute in 1937. Pump removed in 1945.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
210	9 miles northeast	Z. S. Holmen	D. L. McDonald	1917	210	24, 10	5
211	9½ miles northeast	Lester Galley	-- Muncey	1935	128	14	1.5
211a	10 miles northeast	Troy Womble	-- Jones	1938	136	14	1.5
212	12 miles northeast	Alfred May	D. L. McDonald	1914	140	26	1
213	do.	Ernest M. May	do.	1917	140	26	1
214	13 miles northeast	G. W. & Minnie Cox	Jim Meuk	1937	148	16	1.5
215	12½ miles northeast	W. W. Wimberly	--	1936	--	--	1.5
216	13 miles northeast	C. C. Stewart	--	1936	170	15	2
217	do.	Leslie L. Neal	D. L. McDonald	1913	220	26, 14	1
218	13½ miles northeast	C. C. Stewart	L. Ellis	1938	165	16	1
219	14 miles northeast	J. E. Manz	--	1937	162	14	2
220	11½ miles northeast	C. T. Wimberly	C. A. Wimberly	1937	180	15	1.5
221	13 miles northeast	Dawn School	--	Old	95	--	0.4
222	do.	Santa Fe R.R.	--	--	100+	8	2
223	12½ miles northeast	W. J. Stewart	J. L. Meuk	1937	161	14	4.4
224	10 miles northeast	August T. Frye	Bishop & Whitman	1937	180	15	3.2
225	12 miles northeast	C. A. Wimberly	C. A. Wimberly	1937	180	14	1.5
226	9 miles northeast	J. V. McCallister	D. L. McDonald	Old	--	26	0.5
227	11½ miles northeast	C. A. Wimberly	C. A. Wimberly	1937	186	16, 14	2
228	11 miles northeast	W. E. Neel	--	1919	--	--	0.3
229	do.	L. Neal	L. Ellis	1938	210	14	--

Well	WATER LEVEL Below land surface (ft.)	Date of measurement	Method of lift b/ c/	Use of water c/	Remarks
210	67.9	May 30, 1936	T, E, 30	Irr	Cased to 128 feet. Pump set at 105 feet. Measured yield 938 gallons a minute in 1939. Drawdown reported 24 feet while pumping about 1,000 gallons
211	65.3	Nov. 12, 1937	T, E, 30	Irr	Pump set at 100 a minute in 1936. feet. Total lift reported 84 feet after pumping 584 gallons a minute
211a	65	Dec. 14, 1945	T, E, 30	Irr	for 29 hours in 1937.
212	71.8	May 30, 1936	T, G, 70	Irr	Pump set at 120 feet. Measured draw-down 36 feet after pumping 1,005 gallons a minute for 35 hours in 1936.
213	71.6 70.7	May 30, 1936 Nov. 28, 1937	T, E, 30	Irr	Estimated yield 1,000 gallons a minute in 1936.
214	67.1	Jan. 15, 1937	T, E, -	Irr	Estimated yield 800 gallons a minute in 1937. Principal water-bearing sand from 100 to 148 feet.
215	74.2 70.3	Dec. 4, 1937 Dec. 13, 1945	T, E, 40	Irr	Estimated yield 800 gallons a minute in 1937.
216	69.9	Jan. 15, 1937	T, G, 40	Irr	Pump set at 110 feet. Estimated yield 750 gallons a minute in 1937.
217	93.1	Sept. 17, 1937	T, Ng, 70	Irr	Casing: 26-inch Observation well, from 0 to 40 feet and 14-inch from 140 to 220 feet. Pump set at 140 feet. Drawdown reported 50 feet while pumping about 600 gallons a
218	70.6 73.4	July 14, 1938 Mar. 1, 1945	T, G, 65	Irr	Pump set at 120 a minute in 1937. feet.
219	77.6	Nov. 12, 1937	T, G, -	Irr	Pump set at 110 feet. Estimated yield 800 gallons a minute in 1937. Observa-
220	83.9	Aug. 27, 1937	T, E, 30	Irr	Pump set at 130 feet. Esti- tion well. mated yield 700 gallons a minute for 5 hours in 1937. Observation well.
221	83.6	Dec. 4, 1937	C, W	P	Supplies school. Water level measured while pumping slowly.
222	77.7	Mar. 12, 1937	C, W	D, Ind	
223	100.2	Sept. 17, 1937	None	N	Supply reported insufficient for irrigation. "Red beds" at 155 feet.
224	55.1	Aug. 27, 1937	T, G, 90	Irr	Estimated yield 750 gallons a minute in 1937. Observation well.
225	98.0	Oct. 30, 1945	T, E, 30	Irr	Pump set at 130 feet.
226	51.4	May 30, 1936	T, E, 30	Irr	Pump set at 100 feet. Measured drawdown 23 feet after pumping 1,032 gallons a minute for 21 hours in
227	93.8 97.7	Jan. 18, 1938 Oct. 31, 1945	T, Ng, 60	Irr	Pump set 1936. Observation well at 140 feet. See log.
228	82.7	Dec. 4, 1937	None	N	Small supply reported.
229	d/90	July 15, 1938	T, G, 40	Irr	Pump set at 140 feet.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) e/
230	7½ miles northeast	E. C. Reineur	D. L. McDonald	Old	120	26	2.8
231	11 miles northeast	Levinne Ricketts	L. Ellis	1938	171	14	1.8
232	10½ miles east	C. A. Wimberly	do.	1937	142	24, 14	0.3
233	10½ miles northeast	Carl Luke	do.	1937	153	14	--
234	8 miles northeast	L. A. Smith	--	--	52	4	1
235	7 miles northeast	Lewis A. Smith	Jacob Johnson	1917	105	--	2
236	6½ miles northeast	B. A. Donelson	--	Old	51	6	0.3
237	7 miles northeast	do.	D. L. McDonald	1917	150	26	2
238	8½ miles northeast	Carl Luke	do.	Old	--	--	--
239	do.	do.	do.	Old	--	--	--
240	8 miles northeast	do.	do.	Old	--	--	0.2
241	5½ miles northeast	J. K. Estes	--	Old	100+	26	0
242	4½ miles northeast	Travis Dameron	L. Ellis	1937	130	15	4
243	8 miles northeast	E. C. Reineur	J. Meuk	1937	--	--	--
244	7½ miles northeast	do.	do.	1937	200	14	1
245	5½ miles northeast	Ethel F. Plank	D. L. McDonald	1917	214	24	0.5
246	do.	Henry Brozman	Bob Brazel	1936	140	16	1
247	7 miles northeast	R. R. Lindsey	--	Old	38	5	0.4
248	do.	Mrs. A. C. Thompson	--	--	--	6	0.4
249	8 miles northeast	E. R. Biggs	D. L. McDonald	1917	112	26	--
250	6 miles northeast	F. S. Wilde	do.	Old	120	--	0.8
251	6 miles north	Robert R. Lindsey	Jim Meuk	--	--	15	0
252	6½ miles north	do.	do.	1910	103	14	--

Well	Water Level	Date of	Land measurement	Method	Use of lift water	Remarks
	Below	of	(ft.)			
230	40.5	June 11, 1936		T, G	Irr	Small supply reported. Observation well.
231	91.4	Dec. 13, 1945		T, G	Irr	Pump set at 110 feet, 9-inch column.
232	64.4	Nov. 10, 1937		None	N	Supply reported insufficient for irrigation.
233	63.6	Oct. 31, 1945	d/70	F, E	Irr	Measured drawdown 12 feet after pumping about 700 gallons a minute for 14 hours in 1937. Observation well.
234	49.2	June 24, 1937		C, W	D, S	
235	52.6	May 30, 1936		F, N, E	Irr	Pump set at 80 feet, 8 1/2-inch column. Observation well.
236	46.4	June 24, 1937		C, W	N	Observation well.
237	40.7	Nov. 15, 1934		F, E	Irr	Pump set at 114 feet. Measured drawdown 52 feet after pumping 820 gallons a minute for 45 minutes in 1936. Supply reported insufficient for irrigation. Drilled to "red beds."
238	--	--	--	None	N	Do.
239	--	--	--	None	N	Do.
240	42.2	Nov. 12, 1937		None	N	
241	47.3	Nov. 10, 1937		None	N	Supply reported insufficient for irrigation. Observation well.
242	46.6	Nov. 1, 1937		F, E	Irr	Pump set at 88 feet, 6-inch column. Yield reported 300 gallons a minute in 1945. Bottom of well in "red beds". Supply reported insufficient for irrigation. See log.
243	--	--	--	None	N	Do.
244	42.4	Feb. 21, 1946		F, E	Irr	Estimated yield 650 gallons a minute in 1945. Drilled to "red beds". New well being drilled 75 feet south on Pump set at 110 February 21, 1946. Reported no water sand below 129 feet. Observation well.
245	42.8	Nov. 15, 1934		F, E	Irr	
246	54.2	Nov. 10, 1937		F, E	Irr	Pump set at 90 feet. Observation well.
247	20.4	Aug. 27, 1937		C, W	N	Observation well.
248	43.3	Aug. 27, 1937		C, W	D, S	
249	49.1	Apr. 22, 1936		F, E	Irr	Pump set at 90 feet, 8-inch column. Measured drawdown 36 feet after pumping 1,005 gallons a minute for 30 hours in 1936. Pump set at 120 feet. Estimated yield 800 gallons a minute in 1936. Observation well.
250	41.8	Jan. 16, 1937		F, G	Irr	
251	50	May 29, 1936		None	N	Observation well.
252	--	--	--	None	N	

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{e/}
253	6 miles north	Robert R. Lindsey	Jim Mauk	1917	137	--	--
254	6 miles northeast	J. K. Estes	--	Old	--	--	0.1
255	5½ miles northeast	do.	--	Old	--	--	--
256	5 miles northeast	Ben L. Urbanczyk	D. L. McDonald	1920	110	--	1.5
257	4½ miles northeast	Joe Bromman	--	1936	140	16	1.5
257a	4¼ miles northeast	Paul S. Mathers	L. Ellis	1938, 1945	150, 200	14, 12	1
258	3 miles north	J. Roy Davis	D. L. McDonald	1917	125	22, 18	1.5
259	3½ miles northeast	E. B. Childre	Reid Smith	1937	151	14	1.3
260	3½ miles north	W. W. Hill	J. L. Johnson	1918	107	26	1.5
261	4 miles north	D. L. McDonald	D. L. McDonald	1911	179	26	0.5
262	6½ miles north	Progressive School	--	--	65	--	--
263	do.	D. Wallace	--	1937	110	--	0.7
264	5½ miles north	L. Ellis	--	1934	53	24	0.2
265	6 miles north	Reineaur Bros.	J. Mauk	1937	230	16	0.8
266	do.	H. D. Culpepper	L. Ellis	1938	149	14	1.8
267	2½ miles north	O. E. Sherman	Jim Mauk	1937	150	14	2
269	do.	N. E. Gass	L. Ellis	1937	170	16	2
270	2¾ miles north	J. Roy Crutchfield	--	Old	135	24	1.5
271	3 miles north	L. P. Shew	D. L. McDonald	1917	130	22	1
272	5 miles northwest	J. L. Hoffman	do.	1916	200	22	0.9
273	4¼ miles north	D. L. McDonald	do.	1923	120	24	1.5
274	4½ miles north	do.	do.	Old	120	26	1.5
275	5½ miles northwest	William Betzen	do.	1910	140	26	3.2

Well	WATER LEVEL		Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
253	54	Apr. 30, 1936	None	N	Measured drawdown 15 feet after pumping 935 gallons a minute for 34 hours
254	47.6	Nov. 10, 1937	None	N	Supply reported insufficient for irrigation. in 1936.
255	--	--	None	N	Do.
256	45.5 49.8	Nov. 1, 1937 Nov. 29, 1945	T, G, 35	Irr	Estimated yield 500 gallons a minute in 1937.
257	48.9	Nov. 10, 1937	T, E, 40	Irr	Measured drawdown 18 feet while pumping 760 gallons a minute in 1939.
257a	48	Nov. 29, 1945	T, G, 35	Irr	Pump set at 90 feet, 9-inch column.
258	54	Apr. 24, 1936	T, E, 20	Irr	Drawdown reported 35 feet after pumping about 800 gallons a minute for 24 hours in 1936. Observation well.
259	42 50.9	Nov. 29, 1937 Nov. 29, 1945	T, E, 30	Irr	Pump set at 80 feet. Measured drawdown 14 feet while pumping 650 gallons a minute in 1936. Principal water-bearing sand from 120 to 150 feet.
260	52.8	Apr. 8, 1936	T, G, -	Irr	Yield reported 1,000 gallons a minute in 1936.
261	51.6	Oct. 29, 1936	T, E, 20	Irr	Yield reported 600 gallons a minute in 1936. Observation well.
262	d/50	--	--	P	
263	56.4	Aug. 27, 1937	T, E, 50	Irr	Estimated yield 750 gallons a minute in 1937.
264	48.9	do.	None	N	
265	68.5	Sept. 15, 1937	T, G, 40	Irr	Estimated yield 800 gallons a minute in 1937. Observation well. See log.
266	60.6	July 18, 1938	T, G, 40	Irr	Pump set at 90 feet, 8-inch column. Yield reported 950 gallons a minute
267	54.8	Oct. 30, 1937	T, E, 30	Irr	Drawdown reported 28 feet in 1945. after pumping about 800 gallons a minute for several days in 1937.
269	56.3	Oct. 29, 1937	T, E, 30	Irr	Pump set at 120 feet, 9-inch column. Drawdown reported 20 feet after pumping 850 gallons a minute for 4 hours
270	62.7	do.	T, E, 30	Irr	Pump set at 100 feet. in 1937. Yield reported 650 gallons a minute in 1937. Water reported in fine-
271	57.8	May 29, 1936	T, E, 25	Irr	Estimated yield [grained red sand. 800 gallons a minute in 1936.
272	65.7	do.	T, G, 50	Irr	Pump set at 120 feet, 8-inch column. Observation well.
273	52.1	Nov. 8, 1937	T, E, 30	Irr	Drawdown reported 38 feet after pumping 750 gallons a minute for 3 weeks
274	52.7	Oct. 29, 1937	T, E, 30	Irr	Estimated yield 1,000 gallons a minute in 1937. in 1939.
275	64.1 71.2	Dec. 29, 1936 Nov. 9, 1945	T, G, 56	Irr	Pump set at 130 feet, 8-inch column.

Records of well and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
276	7½ miles north	J. L. Fugua	--	--	72	6	0.5
277	do.	H. H. Myers	--	--	26	12	1.6
278	8½ miles north	First Nat'l. Bank	--	Old	90	6	0.6
280	6½ miles northwest	William Betzen	Jim Meuk	1938	290	18	5.5
281	5½ miles northwest	Jerry Keith	--	1937	120	14	1
282	do.	Horace B. Fain	Jim Mauk	1937	155	16	1.5
283	3 miles west	J. T. Gilbreath	-- Muncey	1936	166	16, 14	1.3
284	4½ miles northwest	Edgar Telchik	D. L. McDonald	1936	142	--	3 0.5
285	5 miles north	Ara Lewis	Reid Smith	1937	130	16	1.3
287	4½ miles north	Clinton Jackson	Green Machinery Co.	1937	180	16	3.0
288	2¼ miles north	Lee Hopson	D. L. McDonald	1913	160	24, 16	2
289	4 miles north	W. W. Hill	Jim Meuk	1937	300	20	2
290	do.	do.	do.	1937	235	18, 14	0.7
291	1¼ miles northeast	Roy T. Slegle	D. L. McDonald	1917	117	26	0.5
293	2½ miles north	W. R. Mathews	do.	Old	130	22	--
295	3½ miles northwest	Earl Dehart	Reid Smith	1937	175	16	5
296	3 miles northwest	Pat Robinson	Bishop & Whitman	1937	175	16	2
297	2 miles northwest	Harry Kibbe	W. D. Muncey	1936	135	15	3.5
298	1½ miles north	Wilhelm & Warren	J. Mauk	1937	140	14	3.5
299	2 miles northeast	B. C. Bynum	--	--	49	6	0
300	do.	Ayres Estate	--	--	50	4½	0.5

Well	WATER	LEVEL	Method of lift b/ c/	Use of water c/ d/	Remarks
	Below land surface (ft.)	Date of measurement			
276	36	Sept. 15, 1937	C, W	D, S	Observation well.
277	16.3	do.	C, W	S	Do.
278	71.5	do.	None	N	
280	74.4	Nov. 9, 1945	T, G, 71	Irr	Pump set at 250 feet, 10-inch column. Yield reported 1,400 gallons a minute
281	63.8	Oct. 30, 1937	None	N	This well replaced by well 874, which is 80 feet to the south. Observation well. Measured drawdown 31 feet after pumping 1,200 gallons a minute for 3 hours in 1936.
282	61.7	do.	T, E, 40	Irr	Pump set at 110 feet. Estimated yield 800 gallons a minute in 1937.
283	63.8	Nov. 24, 1937	T, G, 40	Irr	Cased from 60 to 130 feet. Pump set at 85 feet. Measured drawdown 22 feet after pumping about 800 gallons a minute for several days in 1936. Observation well. See log.
284	65.7 70.4	Oct. 30, 1937 Nov. 9, 1945	T, E, 25	Irr	Estimated yield 800 gallons a minute in 1937. See log.
285	56.5	Dec. 11, 1937	T, G, 85	Irr	Pump set at 120 feet. Estimated yield 850 gallons a minute in 1937.
287	45.3	Nov. 29, 1937	T, E, 30	Irr	Pump set at 120 feet, 8-5/8 inch column. Yield reported 750 gal-
288	65.8	Oct. 29, 1937	T, E, 30	Irr	Cased to 133 feet. Pump set at 100 feet. Measured drawdown 30 feet after pumping 622 gallons a minute for 22 hours in 1936.
289	70.2	do.	None	N	Casing had been pulled when visited on Nov. 28, 1945. Observation well.
290	54.4	do.	T, G, -	Irr	
291	54.6	May 29, 1936	T, D, 50	Irr	Pump set at 90 feet. Measured drawdown 22 feet after pumping 692 gallons a minute for 30 hours in 1936.
293	67.8	do.	T, E, 20	Irr	Measured drawdown 39 feet after pumping 610 gallons a minute for 32 hours in 1936. Observation well.
295	80.7 87.6	Nov. 29, 1937 Nov. 5, 1945	T, E, 40	Irr	Pump set at 120 feet, 8-5/8 inch column.
296	92.2 100.0	Sept. 17, 1937 Nov. 5, 1945	T, E, 40	Irr	Estimated yield 750 gallons a minute in 1937.
297	60.9 71.3	May 29, 1936 Nov. 5, 1945	T, E, 25	Irr	75 feet of perforated casing in bot-
298	54.3	Oct. 28, 1937	T, G, 75	Irr	Pump set at 90 feet. Estimated yield 800 gallons a minute in 1936. See log.
299	42.3	June 24, 1937	None	N	
300	46.5	do.	None	N	Observation well.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
301	2 $\frac{3}{4}$ miles northeast	C. Phillips	--	--	56	5	1.5
302	4 miles northeast	F. G. Collier	-- Brazil	1936	120	14 $\frac{1}{2}$	4
303	1 $\frac{1}{4}$ miles north	C. B. Service	L. Ellis	1937	122	14	1.5
304	3 miles west	O. E. Easley	J. Meuk	1936	170	--	4
305	3 $\frac{1}{2}$ miles west	H. M. Benefield	Bishop & Whitman	1937	180	18	0.7
306	do.	Stephen S. Williams	--	1938	--	--	1
307	2 $\frac{3}{4}$ miles west	Adolph S. Megert	Jones & Evans	1938	126	14	--
308	1 $\frac{1}{4}$ miles east	Hereford State Park	--	Old	--	--	1.4
309	2 $\frac{1}{2}$ miles west	S. H. Slagle	Bishop & Whitman	1937	163	14	11.8
310	2 $\frac{1}{4}$ miles west	do.	--	--	69	6	0.2
311	2 miles east	H. H. Boardman	D. L. McDonald	1917	180	26	1
312	2 miles northwest	T. L. Ferguson	--	1936	200	--	4.8
313	1 $\frac{1}{2}$ miles northwest	--	--	1937	100	8	0
314	do.	D. Y. Edwards	--	1915	--	18	0
315	3 $\frac{1}{4}$ miles east	William Woulft	--	1936	130	16	1
316	2 miles southeast	Carl Gilliland	D. L. McDonald	1918	130	22	0
317	1 $\frac{1}{2}$ miles south	M. L. Johnson	do.	1917	80	30	2.9
318	1 mile northwest	Carl Mounts	--	Old	150	--	3.5
319	do.	Hooker Estate	--	Old	150	--	1.5
320	1 $\frac{1}{2}$ miles southwest	W. E. Williams	Jones & Evans	1937	120	10	1.5
321	1 $\frac{1}{4}$ miles southwest	H. V. Hennon	do.	1937	105	10	1.2
322	2 $\frac{3}{4}$ miles south	Dr. G. W. Heard	D. L. McDonald	1915	140	26	1

Well	WATER LEVEL		Date of measurement	Method of lift	Use of water	Remarks
	Below land surface	LEVEL				
301	45.1		June 24, 1937	C, W.	N	Observation well.
302	49.8		Nov. 1, 1937	T, E, 25	Irr	Pump set at 80 feet. Measured draw-down 19 feet after pumping 870 gallons a minute for 30 hours in 1937. Observation well. See log.
303	56.2		Oct. 28, 1937	T, G, -	Irr	Pump set at 80 feet. Estimated yield 500 to 600 gallons a minute in 1937.
304	87.1		May 29, 1936	T, G, 40	Irr	Pump set at 140 feet. Measured draw-down 31 feet after pumping 845 gallons a minute for 2½ hours in 1936. See log.
305	79.2		Aug. 27, 1937	T, E, -	Irr	Measured drawdown 1936. See log. 24.5 feet after pumping 782 gallons a minute for about 6 hours in 1937. Observation well.
306	71 74.4		July 16, 1938 Nov. 9, 1945	T, E, 20	Irr	Pump set at 100 feet. Yield reported 750 gallons a minute in 1945.
307	--		--	T, E, 30	Irr	Well partly filled in when visited on March 1, 1945.
308	46.4		May 29, 1936	None	N	
309	67.7		Nov. 25, 1937	T, E, 30	Irr	Pump set at 110 feet, 9-inch column. Estimated yield 800 gallons a minute in 1937.
310	55.1		Aug. 26, 1937	C, W	N	Located 0.7 mile north in 1937. of Tierra Blanca Creek.
311	53.8		Nov. 15, 1934	T, NG, 55	Irr	Pump set at 110 feet. Measured draw-down 24 feet after pumping 1,130 gallons a minute for 12 hours in 1934. Water reported in sand and gravel from 55 to 100 feet. Observation well.
312	82.8		Nov. 29, 1937	T, G, -	Irr	Estimated yield 800 gallons a minute in 1937.
313	65.1		Aug. 26, 1937	None	N	
314	64.9		do.	C, G, -	Irr	6½-inch column pipe. Estimated yield 180 gallons a minute in 1945.
315	59.8		May 15, 1936	T, G, 60	Irr	Pump set at 85 feet. Estimated yield 800 gallons a minute in 1936.
316	57		May 29, 1936	T, NG, 40	Irr	Estimated yield 900 gallons a minute in 1936. Observation well.
317	59.4		Nov. 15, 1934	T, G, 60	Irr	Water reported in sand from 60 to 80 feet.
318	60.5		Aug. 26, 1937	T, G, 30	Irr	Estimated yield 700 gallons a minute in 1937.
319	59.5		do.	T, -, -	N	Well filled in when visited on December 1, 1942.
320	45.9		Nov. 23, 1937	T, E, 5	Irr	Pump set at 70 feet, 4-inch column.
321	44.6		Dec. 11, 1937	None	N	
322	69.2		May 28, 1936	None	N	Observation well.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well	Height of measuring point above ground (ft.) a/
323	$\frac{1}{2}$ mile northeast	Mrs. G. S. Parker	--	--	--	--	--
325	In Hereford	City of Hereford	--	Old	200	24	--
326	5 miles south	E. Schwartz	--	Old	100+	26	2.5
327	$1\frac{1}{2}$ miles south	George W. Hund, Jr.	D. L. McDonald	1914	100	26	0.9
328	$1\frac{3}{4}$ miles south	J. E. Springer	-- Bishop	1938	120	14	1.5
329	$4\frac{1}{4}$ miles southwest	W. E. Upton	Bob Bizel	1926	80	$4\frac{1}{2}$	1.8
330	do.	do.	Jones & Evans	1937	150	15	1.5
331	$4\frac{1}{4}$ miles south	Owen Andrews	-- Muncey	1937	136	12	5
332	$3\frac{1}{2}$ miles southwest	E. Morgan	--	1936	78	$7\frac{1}{2}$	1.8
333	5 miles southwest	Ira Miller	L. Ellis	1937	150	--	5
334	$5\frac{1}{2}$ miles southwest	Reineur Bros.	Jim Mauk	1936	200	14	4
335	$4\frac{1}{2}$ miles south	N. E. Gass	Hancy & Ware	1937	173	13	4
336	$3\frac{3}{4}$ miles southeast	George M. Clingan	Jim Mauk	1936	140	15	1
337	4 miles south	Reineur Bros.	W. D. Muncey	1937	175	--	5
338	4 miles south	Berney G. Russell	Jim Mauk	1937	160	16, 14	--
339	$4\frac{1}{2}$ miles southeast	H. Casad	A. B. Hayes	1935	150	16	0.8
340	$3\frac{3}{4}$ miles south	Felix Urbanczyk	D. L. McDonald	1920	120	26	0.8
341	3 miles south	do.	do.	1917	130	26	0.8
342	$3\frac{1}{2}$ miles south	Edward A. Dziuk	C. Tucker	1937	126	16	1.3
343	$2\frac{1}{2}$ miles south	Dolph S. Megert	Jim Mauk	1936	150	14	2
344	$1\frac{1}{4}$ miles northeast	J. B. Latham	do.	1910	130	--	3.5
345	$1\frac{1}{4}$ miles east	Dr. J. W. Hendrix	--	1937	110	16	1.4

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
323	--	--	C,E, 5	Irr	Yield reported 60 gallons a minute.
325	d/60	Dec. 1937	None	N	Abandoned in August, 1941.
326	87.1	Oct. 27, 1937	None	N	Observation well.
327	59.2	May 16, 1936	T,E, 25	Irr	Pump set at 90 feet. Estimated yield 800 gallons a minute in 1936.
328	67.5	Oct. 29, 1945	T,E, 20	Irr	Pump set at 90 feet, 8-inch column.
329	63.8	Mar. 26, 1937	C,W	D,S	
330	67.3 74.3	Nov. 23, 1937 Oct. 15, 1945	T,Ng, 35	Irr	
331	75	Aug. 26, 1937	T,G, -	Irr	Cased to 115 feet. Pump set at 110 feet. Yield reported 800 gallons a minute in 1937. Observation well.
332	62	Mar. 26, 1937	C,W	S	
333	77.3	Oct. 28, 1937	T,G, -	Irr	Estimated yield 800 gallons a minute in 1937. Water in red sand.
334	93.4	Jan. 15, 1937	None	N	Well caved in and abandoned in 1940.
335	90.8	Oct. 26, 1945	T,E, 40	Irr	Pump set at 100 feet, 8 1/2 8-inch column. Water sand reported from 98 to 174
336	87.2	Apr. 27, 1936	T,G, 36	Irr	Cased to 136 feet. Measured feet. drawdown 25 feet after pumping 600 gallons a minute for 8 hours in 1936. Observation well. See log.
337	79.5 86.6	Oct. 27, 1937 Oct. 27, 1937	None	N	Estimated yield 800 gallons a minute.
338	--	--	T,E, 25	Irr	Cased to 155 feet. Drawdown reported 21 feet after pumping about 750 gallons a minute for 12 days in 1937.
339	80.9	May 28, 1936	None	N	Cased to 78 feet. Pump set at 120 feet. Measured drawdown 22 feet after pumping 584 gallons a minute for 20 hours in 1936. Well abandoned in 1939
340	72.8	Apr. 17, 1936	None	N	Observation well.
341	75.9	do.	T,G, 50	Irr	Measured drawdown feet after pumping 664 gallons a minute for 35
342	84.9	Dec. 1, 1937	T,E, 40	Irr	Cased to 121 feet. hours in 1936. Pump set at 100 feet. Reported yield 800 gallons a minute in 1937. Obser-
343	69.1	Dec. 10, 1938	T,E, 25	Irr	Pump set at 110 feet. vation well. Measured drawdown 17 feet after pumping about 800 gallons a minute for 15
344	55.2	Oct. 28, 1937	T,G, -	Irr	Pump set at 70 feet. days in 1936
345	52.7	Nov. 2, 1937	T,E, 15	Irr	Estimated yield 650 gallons a minute in 1945.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
347	1 mile southeast	William Manuel	---	1937	110	16	1.5
348	2 miles south	Homer J. Ewton	D. L. McDonald	1914	120	26	1.5
349	2 $\frac{3}{4}$ miles south	J. W. Alexander	do.	Old	120	26	1
350	5 miles south	D. P. Walker	--	1937	170	14, 11	1.5
351	3 $\frac{1}{4}$ miles southeast	C. E. Rea	--	Old	--	20	4.2
355	1 $\frac{1}{4}$ miles northeast	C. B. Thomas	Joe Lytle	1936	120	24	2.5
356	do.	B. E. Brumley	D. L. McDonald	1914	--	--	1.6
357	do.	H. L. Benefield	Joe Lytle	1937	180	--	--
358	2 $\frac{3}{4}$ miles northeast	John P. Gallagher	do.	1935	140	24	0
359	3 miles east	E. A. & C. J. Albrecht	D. L. McDonald	1916	146	26	0.5
360	4 $\frac{1}{2}$ miles southeast	Paul Wilson	Joe Lytle	1937	150	14	5
361	4 $\frac{1}{2}$ miles southeast	J. J. Paetzold	D. L. McDonald	1917	180	22, 15	1
362	6 miles southeast	William J. Bettles	Jones & Evens	1938	150	14	1
363	5 $\frac{1}{2}$ miles southeast	W. A. Sisk	L. Ellis	1937	150	15	2
364	do.	do.	-- McDade	1937	160	15	2
365	5 miles southeast	M. J. Arnold	Bishop & Whitman	1937	160	15	4.2
366	4 miles east	Mrs. Eunice L. Harding	Jim Mauk	1935	120	16	0.4
373	6 miles east	Wyche School	--	Old	85	--	--
374	5 $\frac{1}{2}$ miles southeast	D. R. Carmichael	Green Machinery Co.	1937	--	--	0 5.5
375	6 miles southeast	Wilburn P. Axe	Bishop & Whitman	1937	180	15	1.5
376	6 $\frac{1}{2}$ miles southeast	C. R. Damron & W. L. Hollingsworth	--	1937	180	15	8
377	do.	R. W. Elliston	Joe Lytle	1937	--	15	0.6

Well	WATER LEVEL		Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
347	53.7	Nov. 2, 1937	T, E, 15	Irr	Estimated yield 650 gallons a minute in 1945.
348	62.6	May 28, 1936	T, E, 25	Irr	Measured drawdown 13 feet after pumping 830 gallons a minute for 51 hours
	69.7	Oct. 29, 1945			
349	70.3	May 22, 1936	T, E, 25	Irr	Yield reported 900 gallons in 1936. a minute in 1945. Measured drawdown 12.5 feet after pumping 637 gallons a minute for 10 hours in 1937.
350	84.5	Nov. 13, 1937	T, G, 90	Irr	Pump set at 130 feet. Estimated yield 800 gallons a minute in 1937.
	88.4	Oct. 25, 1945			
351	22.2	Nov. 2, 1937	None	N	
355	55.7	Oct. 28, 1937	T, G, -	Irr	Cased to 12 feet.
356	65.2	Oct. 30, 1945	T, Ng, 50	Irr	Pump set at 110 feet, 8-inch column.
357	d/60	---	T, G, 90	Irr	No casing. Estimated yield 750 to 800 gallons a minute in 1937.
358	49.9	Nov. 1, 1937	T, Ng, 70	Irr	Cased to 10 feet. Pump set at 110 feet, 8-inch column. Estimated yield 1,000 gallons a minute in 1945.
359	59.7	May 20, 1936	T, G, 75	S, Irr	Pump set at 90 feet, 10-inch column. Measured drawdown 30 feet after pumping 1,005 gallons a minute for 34
360	86	Nov. 2, 1937	T, G, 37½	Irr	Estimated yield hours in 1936. 800 gallons a minute in 1937.
361	92.3	May 28, 1936	T, G, -	Irr	Pump set at 129 feet. Measured drawdown 17 feet after pumping 637 gallons a minute for 32 hours in 1936.
	100.3	Oct. 25, 1945			
362	91.6	Oct. 25, 1945	T, G, 35	Irr	Pump set at 120 feet, 8-5/8-inch column.
363	88.8	Nov. 3, 1937	T, E, 30	Irr	Pump set at 120 feet. Measured drawdown 31 feet after pumping 800 gallons a minute for 3 hours in 1937.
	96.4	Oct. 25, 1945			
364	89.5	Nov. 3, 1937	T, E, 40	Irr	Pump set at 130 feet. Estimated yield 850 gallons a minute in 1945.
	101.4	Oct. 26, 1945			
365	80.2	Nov. 2, 1937	T, E, 30	Irr	Pump set at 120 feet. Measured drawdown 20 feet while pumping about 750
	96.3	Oct. 29, 1945			
366	16	May 15, 1936	T, G, -	Irr	Cased to 80 feet. Pump set at 60 feet. Yield reported 750 gallons a minute in 1936.
373	d, 70	---	C, W	P	
374	78.2	Dec. 10, 1937	T, E, 20	Irr	Cased from 52 feet to bottom.
	94.5	Oct. 26, 1945			
375	97.7	do.	T, E, 40	Irr	
376	72.4	Nov. 3, 1937	T, G, 35	Irr	
	81.3	Oct. 25, 1945			
377	76.2	Nov. 2, 1937	T, E, 30	Irr	
	84.5	Oct. 26, 1945			

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) s/
378	6 miles east	Jack Frost	--	1938	160	16	0
379	7½ miles east	W. M. Howard	--	Old	--	--	0.3
380	8 miles southeast	J. H. Reinart	Jones & Evans	1937	163	15	1.5
381	9 miles southeast	B. W. Burney & R. C. Childers	--	1937	--	--	0.5
382	9½ miles southeast	do.	Jones & Evans	1937	200	--	0
383	8½ miles east	J. S. Wyche Estate	--	Old	57	--	4
384	9 miles east	E. F. Smith	--	Old	--	--	--
385	do.	T. E. Shirley	--	Old	98	--	0.1
386	10 miles east	Wilson Syn. Trust Co.	--	--	Seep Spring	--	--
387	11 miles east	R. A. Frye	--	Old	163	4	1
388	11½ miles east	H. A. Halbert	--	--	193	4	2
389	9 miles southeast	B. W. Burney & R. C. Childers	--	--	--	--	1
390	8½ miles southeast	do.	--	--	--	--	4.5
391	8 miles southeast	Joe H. Reinart	Jones and McGregor	1940	160	14	1
392	do.	Chester C. & W. H. Hodges	Henry Patzig	1940	180	--	4
393	7¾ miles southeast	W. H. Johnson	--	1944	177	16	1.5
394	7 miles southeast	Paul M. Helmke	--	--	--	--	3
395	5¾ miles east	N. G. Elliston	--	1938	100	16	--
396	4¾ miles east	R. F. Day	--	--	--	--	1.5
397	5 miles east	Ira Scott	--	--	--	--	--
398	5¾ miles southeast	E. Rutter	W. L. Bishop	1940	176	14	1.8
399	6 miles southeast	J. W. Dickerson	do.	1940	154	--	0.5
400	5¾ miles southeast	Don Patty	Hereford-Johnston Pump Co.	1944	200	16	1.5
401	36 miles west	Landergin Bros. Co.	--	--	59	5	1

Well	WATER	LEVEL	Method of lift <u>b/</u>	Use of water <u>c/</u>	Remarks
	Below land surface (ft.)	Date of measurement			
378	55	Mar. 29, 1938	None	N	
379	54.4	July 15, 1938	C, W	D, S	
380	91.3	Oct. 26, 1945	T, G, -	Irr	Pump set at 130 feet. Estimated yield 650 gallons a minute in 1945. Said to be drilled to "red beds".
381	81.3	Nov. 15, 1937	None	N	Casing pulled and well filled in when visited on October 26, 1945.
382	89.4	Aug. 24, 1937	None	N	Well filled in when visited on October 26, 1945.
383	43.2	July 15, 1938	C, W	N	No casing.
384	--	--	C, W	D, S	
385	74.6	July 15, 1938	C, W	S	Irrigated small garden.
386	--	Nov. 12, 1937	Flows	S	Estimated flow 15 gallons a minute in 1937.
387	40.2	July 15, 1938	C, W	S	
388	114.1	do.	C, W	D, S	
389	88.8	Oct. 26, 1945	T, G, -	N	Supply reported small.
390	98.1	do.	T, G, 35	Irr	
391	98.8	do.	T, G, 40	Irr	Pump set at 130 feet, 8-5/8-inch column. See log.
392	98.8	do.	T, G, 35	Irr	Cased to 90 feet. Pump set at 130 feet, 8-inch column.
393	88.8	do.	T, G, 35	Irr	Pump set at 130 feet, 8-inch column. Yield reported 1,000 gallons a minute in 1945. "Red beds" reported at 170
394	79.5	do.	T, -, -	Irr	Pump set at 120 feet, 8- inch column. Yield reported 1,000 gallons a minute in 1945. Observation
395	--	--	--	--	Yield reported 300 gallons a well minute in 1945. Supply reported in-
396	58.5	Oct. 30, 1945	T, G, 35	Irr	sufficient for irrigation.
397	--	--	--	--	Yield reported 250 gallons a minute in 1945. Supply reported insuffi-
398	86.8	Oct. 26, 1945	T, G, 40	Irr	Pump set at 120 feet, 9-inch column. Yield reported 1,250 gallons a minute in 1945.
399	101.1	do.	T, E, 20	Irr	Pump set at 120 feet, 7-inch column. See log.
400	106.6	do.	T, E, 40	Irr	Pump set at 140 feet, 8-inch column.
401	52.8	July 8, 1938	None	N	Supply reported small.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
402	34 miles west	O. V. Ellison	--	--	165	48	--
403	36½ miles west	V. Ridley	-- Mott	1950	60	4½	3.7
404	do.	C. Glasscock	--	1908	177	6	1.5
405	36 miles west	Commerce Tr. Co.	--	--	175	4½	--
406	33 miles west	Fred Colliet	--	--	128	4½	0.5
410	8 miles northwest	Federal Land Bank	--	Old	74	6	0.3
411	31½ miles west	E. W. Wilson	--	--	Spring	--	--
412	do.	do.	--	--	22	--	0
413	35 miles west	J. C. Garrett	--	1938	100	5	--
415	37 miles west	J. H. Moody	--	--	224	4½	1.2
417	36 miles west	S. B. Walker Estate	--	Old	113	--	0
418	30½ miles west	do.	--	Old	17	72	0
420	29½ miles west	J. N. Brown	--	1938	45	18	0
422	do.	do.	--	1928	56	4½	2.5
423	28 miles west	G. & R. Terry	--	Old	124	4½	1
424	27½ miles west	D. Walker	--	Old	71	--	3.5
426	31 miles west	C. L. Syndicate	Uscan Oil Co.	1938	3,735	20	--
428	25 miles west	Kansas City Life Insurance Co.	--	--	300+	4½	1
429	21½ miles west	Stockman's Cattle Loan Co.	--	Old	300+	--	--
430	4½ miles southwest	--	--	--	65	5	0.9
431	do.	S. J. Barclay	--	Old	75	5	1.7
432	3½ miles southwest	L. J. Kuper	--	--	85	5	1.5
433	6½ miles southwest	W. J. McMinn	--	Old	119	4½	1
434	21 miles west	B. R. Jennings	--	--	236+	--	--
437	23½ miles west	C. R. Smith	--	Old	272	4½	2.5
439	20 miles west	G. W. Medley	--	Old	--	4½	--

Well	Water Level	Date of measurement	Method of use	Remarks
Below	land surface (ft.)		of lift of water	
402	16.5	---	C, W	Concrete casing to 165 feet. Dug well.
403	38.8	Apr. 1, 1937	C, W	
404	174.4	July 13, 1938	C, W	
405	---	---	C, W	Supply reported smell.
406	120.6	July 8, 1938	C, W	
410	60.8	Sept. 17, 1937	None	Well filled in to 15 feet in January, 1941.
411	---	July 9, 1938	Flows	Water seeps from "red beds" about 50 feet below cap rock.
412	19.9	do.	C, H	
413	---	---	C, W	Supply reported smell. Irrigates small garden.
415	220	July 13, 1938	C, W	
417	103.1	do.	C, W	
418	12.9	do.	C, W	Dug. well. Estimated yield 7 gallons a minute.
420	42.9	July 9, 1938	None	Supply reported smell.
422	48.9	do.	C, W	
423	116.9	do.	None	
424	57.1	July 13, 1938	C, W	
426	---	---	None	Oil test. See log.
428	288.8	July 8, 1938	C, W	
429	300.7	---	C, W	
430	51.6	Sept. 16, 1937	C, W	
431	67.1	do.	None	Observation well.
432	72.6	June 23, 1938	C, W	
433	110	Aug. 19, 1937	None	
434	236	---	None	
437	253	July 8, 1937	C, W	
439	---	---	C, W	

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
440	23 miles west	C. L. Syndicate	--	--	141	5	0.8
441	24 miles west	R. J. Coleman	--	--	159+	6	0
442	23 miles west	--	--	--	67	6	0
444	20 $\frac{1}{2}$ miles west	F. A. Robbins	--	--	108	4 $\frac{1}{2}$	0.2
445	23 $\frac{1}{2}$ miles west	J. L. Smith	--	1932	175	--	--
446	24 miles west	do.	--	1932	165	--	--
447	do.	do.	--	1932	260	4 $\frac{1}{2}$	1.3
448	do.	do.	--	1932	175	--	--
450	23 miles west	J. L. Pearson	--	--	164	4 $\frac{1}{2}$	1.3
452	do.	J. N. Messenger	R. H. Kinsley	1925	160	4 $\frac{1}{2}$	1.2
453	13 miles west	J. H. Jernigan	--	Old	139	4	1.8
454	11 $\frac{1}{2}$ miles southwest	L. E. McMillan	--	Old	138	4	1.5
455	9 $\frac{1}{2}$ miles west	R. M. Gura	--	--	100	4 $\frac{1}{2}$	0.8
456	15 miles west	R. R. Jackson	--	--	162	5	1
457	do.	Mrs. A. B. Best	--	Old	67	5	0
459	12 $\frac{1}{2}$ miles west	W. F. Ponder	--	1937	202	16	1
460	19 miles west	T. E. Seigler	--	Old	--	--	--
461	19 $\frac{1}{2}$ miles west	B. R. Jennings	--	Old	275	4 $\frac{1}{2}$	--
462	14 miles northwest	Walcott Public School	--	--	198	5 $\frac{1}{2}$	1.7
463	16 $\frac{1}{2}$ miles northwest	J. A. Fox	--	Old	102	5	3
466	12 miles northwest	Christine Nussbaum	--	1938	250	--	--
467	11 $\frac{1}{2}$ miles northwest	J. L. Nunn	--	Old	179	4 $\frac{1}{2}$	1
468	12 $\frac{1}{2}$ miles northwest	M. L. Oliver	--	Old	198	4 $\frac{1}{2}$	0.1
470	11 $\frac{1}{2}$ miles northwest	G. T. Oliver	--	--	115	4 $\frac{1}{2}$	1.4
471	10 $\frac{1}{2}$ miles northwest	C. V. Williams	--	Old	--	--	--

Well	Below	Date of	Method	Use	Remarks
WATER LEVEL	Depth (ft.)	measurement	of lift	of water	
440	128.8	Sept. 16, 1937	C, W	N	
441	149.4	Apr. 2, 1937	C, W	D, S	
442	61.7	Mar. 31, 1937	None	N	
444	97.2	July 9, 1938	C, W	D, S	
445	---	---	None	N	Drilled as test well. Dry hole.
446	---	---	None	N	Do.
447	151.5	July 9, 1938	C, W	S	Yield reported 15 barrels a day.
448	---	---	None	N	Drilled as test well. Dry hole.
450	142.2	July 9, 1938	C, W	N	
452	144.8	Apr. 2, 1937	C, W	D, S	Irrigates small garden.
453	126.7	July 16, 1938	C, W	N	
454	120.8	do.	C, W	N	
455	74	Aug. 26, 1937	None	N	
456	133.8	Sept. 16, 1937	None	N	
457	57	July 13, 1938	None	N	Well filled in to 47 feet, when
457	54.6	Feb. 5, 1942	None	N	visited in August, 1942.
459	106.2	July 16, 1938	L, G, S	Irr	Pump set at 150 feet, 9-inch column. Yield reported 1,200 gallons a minute in 1938, "Red beds" reported at 185 feet.
460	---	---	C, W	S	
461	250	---	None	N	
462	183.9	June 22, 1943	C, W	D, S	
463	66.5	July 7, 1938	None	N	Water level measured in column pipe.
466	2160	---	L, G, S	Irr	Pump set at 200 feet, 8-inch column. Reported yield 750 to 800 gallons a minute in 1937. Water sand from 160
467	177	July 5, 1938	None	N	Well destroyed when [] to 250 feet
468	194.9	do.	None	N	visited in June, 1943. Do.
470	111.3	July 7, 1938	None	N	Well filled above water level when
471	---	---	C, W	S	visited in June, 1943.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
472	8½ miles northwest	J. H. Patton	--	Old	109	--	0.2
473	8 miles northwest	Bruce W. Burney	-- Muncey	1938	190	14,12	4
474	do.	Federal Land Bank	--	Old	88	--	0.1
475	7½ miles northwest	Bruce W. Burney	-- Muncey	1938	195	14,12	1
476	5½ miles northwest	G. F. Logrand	Jim Mauk	1934	175	12½, 12	2
477	6½ miles northwest	Robert R. Lindsey	do.	1937	345	20	1.5
478	8 miles northwest	Walter Davidson	Fish & Campbell	1938	255	16	1.5
479	11 miles west	--	--	Old	74	--	1
482	8 miles northwest	Walter Davidson	Fish & Campbell	1938	265	16	2
483	7 miles northwest	do.	do.	1938	314	16	2
484	4-3/4 miles west	Fred A. Inman	Jim Mauk	1936	140	16,10	4
486	7 miles west	M. L. Parker	D. L. McDonald	--	210	24	2
487	7½ miles west	Ernest Hardman	Don Combs	1938	200	16	1.5
488	8 miles west	N. V. Livesay	--	--	--	--	0
489	8½ miles west	do.	--	1938	176	13	--
490	do.	A. C. Pierce	--	--	110	5	--
491	10½ miles west	M. W. Stephens	--	1905	73	--	0.6
492	8½ miles west	R. M. Gunn	Jones & Evans	1937	200	16,13	2
493	7½ miles west	J. P. Slaton	--	1923	86	6	--
494	do.	O. G. Hill	--	1938	160	16	0.7
495	8½ miles west	W. L. Jones	--	1938	160	16	1.8
496	4½ miles west	Ernest L. Lippert	Bishop & Whitman	1937	175	16	1.5
497	3-3/4 miles west	H. A. Hoffman	--	1938	170	16	--

Well	Water Level	Date of measurement	Method of lift	Use of water	Remarks
472	98.2	July 5, 1938	G, W	S	
473	89	Nov. 7, 1945	T, G	Irr	Pump set at 120 feet. Estimated yield 800 gallons a minute in 1938.
474	60.5	July 15, 1938	T, G	N	
475	91.8	Nov. 7, 1945	T, G	Irr	Pump set at 120 feet. Yield reported 900 gallons a minute in 1938.
476	76.4	Oct. 30, 1937	T, E	Irr	Pump set at 120 feet. Drawdown reported 26 feet after pumping 790 gallons a minute for about 5 hours in 1937.
477	99.4	Nov. 9, 1945	T, E	Irr	Pump set at 140 feet, 9-inch column. Fine-grained sand reported from surface to 345 feet; "red beds" at 845 feet. Pump set at 130 feet, 8-5/8-inch column. Estimated yield 800 gallons a minute in 1938.
478	99.6	Nov. 6, 1945	T, E	Irr	
479	62.3	July 7, 1938	None	N	No casing.
482	94.4	Nov. 6, 1945	T, E	Irr	Pump set at 130 feet, 8-5/8-inch column. Estimated yield 800 gallons a minute in 1908.
483	82.3	do.	T, E	Irr	Pump set at 130 feet, 8-5/8-inch column. Yield reported 1,000 gallons a minute in 1938.
484	64.8	Nov. 24, 1937	T, G	Irr	Pump set at 90 feet. Measured drawdown 27 feet after pumping 665 gallons a minute for 30 hours in 1937.
486	78.8	Nov. 6, 1945	T, E	Irr	Pump set at 140 feet. See Log. Yield reported 1,000 gallons a minute in 1937. Observation well.
487	80.3	do.	T, G	Irr	Pump set at 90 feet, 8-inch column. Yield reported 1,000 gallons a minute in 1945.
488	72.3	July 14, 1938	None	N	
489	8/60	Feb. 1938	T, G	Irr	Pump set at 110 feet. Estimated yield 800 gallons a minute in 1938.
490	8/90	---	G, W	D, S	
491	58.6	July 7, 1938	G, W	D, S	
492	91.2	Nov. 13, 1937	T, G	Irr	Steel casing. Estimated yield 750 gallons a minute in 1937.
493	---	---	G, W	D, S	
494	77.7	Oct. 12, 1945	T, E	Irr	Pump set at 120 feet, 9-inch column.
495	65.8	do.	T, E	Irr	
496	62.9	Nov. 1, 1937	None	N	Well abandoned when visited in October, 1945.
497	8/73	---	T, E	Irr	Pump set at 115 feet.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
498	4 miles west	Mrs. M. C. Hoffman	--	--	85	6	--
499	5 miles west	Andy Kerschen	--	--	--	--	--
500	7½ miles west	John Kalka	Bishop & Whitman	1937	150	14	1.5
501	8 miles west	Haynes M. Thomas	--	1937	196	16,12	1.3
502	8½ miles west	Carl H. Schroeder	Jones & Evans	1937	210	14	1
503	do.	West Way School	--	Old	--	--	--
504	10½ miles west	D. H. Buchanan	--	--	--	--	3.5
505	11½ miles west	Mrs. Pearl Harrison	--	1938	--	--	4
506	9 miles west	Alton Fraser	--	--	94	4½	0.4
507	8 miles west	do.	--	Old	48	5	2
508	7½ miles west	do.	--	1937	170	--	0.5
509	5 miles southwest	Wylie Robertson	Reid Smith	1938	160	--	1
510	do.	Sidney J. Barclay	L. Ellis	1937	150	14	1.2
511	7 miles southwest	J. B. Noland	--	Old	200	24	0.6
512	6 miles southwest	Ky. Lawrence	Jones & Evans	1937	180	16, 13½	1.3
513	7½ miles southwest	A. E. Acton	--	Old	85	4½	4.7
514	8 miles southwest	B. A. Achley	Bishop & Whitaker	1937	178	15,13	1.8
515	9 miles southwest	C. L. Walser	Jones & Evans	1937	155	--	2.2
516	8 miles southwest	J. G. Evans	do.	1937	164	13½	5.5
517	8½ miles west	do.	do.	1937	194	15½	5
518	9 miles west	do.	do.	1937	182	13½	5
519	10 miles west	Fred S. Barrett	do.	1937	148	15½	1.5
520	do.	do.	--	--	--	--	4
521	8-¾ miles west	Joe G. Evans	W. L. Bishop	1941	180	--	4

Well	WATER LEVEL	Date of measurement	Method of lift	Use of water	Remarks
	Below land surface (ft.)		of lift b/	of water c/	
498	4/72	--	C,W	D,S	
499	--	--	T,G, 40	Irr	
500	69.7 79.8	Nov. 13, 1937 Oct. 12, 1945	F,E, 40	Irr	
501	81.9	Nov. 13, 1937	T,G, -	Irr	Pump set at 120 feet, 8-5/8-inch column. Dredown 18 feet after pumping about 750 gallons a minute for Cased from 90 to 24 hours in 1937. 216 feet. Pump set at 140 feet.
502	93.3	do.	T,E, 40	Irr	
503	--	--	C,W	P	Observation well.
504	85	Nov. 5, 1945	T,G, 35	Irr	
505	98.2	do.	T,G, 50	Irr	
506	74.1	Aug. 26, 1937	C,W	-	Observation well.
507	9.8	Sept. 16, 1937	None	N	In bend of creek.
508	75.2 89.7	Sept. 16, 1937 Nov. 5, 1945	T,G, 113	Irr	Yield reported 2,000 gallons a minute in 1945.
509	74.2	Oct. 15, 1945	T,E, 30	Irr	Pump set at 120 feet, 8-5/8-inch column.
510	77.1	Oct. 23, 1937	T,G, -	Irr	Pump set at 120 feet. Dredown reported 11 feet after pumping 1,000 gallons a minute for 24 hours in 1937.
511	116.2	Sept. 15, 1937	T,N,G, 37 1/2	Irr	Pump set at 150 feet. Measured yield 900 gallons a minute in 1945.
512	86.4 95.2	Nov. 23, 1937 Oct. 15, 1945	T,E, 40	Irr	Pump set at 120 feet, 8-5/8-inch column.
513	74.5	Nov. 1, 1937	C,W	S	Observation well.
514	104.6	Sept. 16, 1937	T,G, -	Irr	Pump set at 140 feet, 8-5/8-inch column. Estimated yield 800 gallons a minute in 1937. Gravel reported from 164 to 178 feet. Observation
515	101.9	Oct. 29, 1937	None	N	Not casing. Caved in when well. visited in February, 1942.
516	84.6 87.9	Oct. 29, 1937 Oct. 22, 1945	T,E, 25	Irr	Dredown reported 14 feet after pumping 300 gallons a minute for 20 hours
517	36.2	Oct. 29, 1937	T,E, 25	Irr	Estimated yield 800 gallons a minute in 1937.
518	86.2 89.9	do. Oct. 22, 1945	T,E, 30	Irr	do.
519	84.9 85.3	Aug. 26, 1937 Mar. 7, 1941	T,G, 35	Irr	
520	88.5	Oct. 22, 1945	T,G, 35	Irr	
521	86.6	do.	T,G, 35	Irr	Pump set at 140 feet, 8-inch column.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
522	10 miles west	Fred Neff	--	1943	--	--	1.5
523	do.	do.	Hereford-Johnston Pump Co.	1945	165	16	1.8
524	9-1/4 miles west	Herman Neff	--	--	--	--	4
525	9 miles west	do.	--	--	--	--	4
526	10-1/4 miles southwest	Wm. G. Harris	Hereford-Johnston Pump Co.	1944	212	16	1.8
527	9 1/2 miles southwest	Fred. S. Barrett	W. L. Bishop	1943	180	--	1
528	9-1/4 miles southwest	do.	do.	1942	190	14	--
529	9 miles southwest	Charles Walser	Hereford-Johnston Pump Co.	1943	165	16	1.8
530	8 1/2 miles southwest	W. P. McMinn	--	--	--	--	--
531	6-3/4 miles southwest	Ky. Lawrence	Bud Gibbons	1940	303	14	1
532	6 miles southwest	J. C. Simpson	Hereford-Johnston Pump Co.	1944	207	16	1.8
533	7-1/4 miles southwest	A. E. Aston	W. L. Bishop	1943	179	14	1
534	6-3/4 miles southwest	Sam Wilson	L. Ellis	1941	180	15	--
535	6 miles southwest	Cramer & Gault	do.	1941	175	16	1.8
536	5 1/2 miles southwest	do.	do.	1941	175	16	1.5
537	4 1/2 miles west	H. L. Benefield	--	--	--	--	3.3
538	6 1/2 miles west	M. S. Benefield	Doug. Jones	1945	--	16	--
539	7 miles west	J. C. Morrison	--	1939	150	15	1.2
540	6 1/2 miles west	Herbert Bippus	--	1945	175	16	1.8
541	5 1/2 miles west	Jno. Reinaur	--	--	--	--	1
542	4 miles west	Dr. Ralph R. Wills	-- Green	1940	--	--	--
543	7 miles west	Alton Fraser	Bud Gibbons	1943	180	16	1
544	9 miles west	do.	W. D. Jones	1940	180	16	1
545	8-3/4 miles west	do.	Bud Gibbons	1943	200	16	1
546	14 miles west	M. D. Bartlett	Plains Land Roller Co.	1945	185	16	1
547	11 1/2 miles west	Paul Rudd	W. D. Jones	1940	200	16	0

Well	Below	Land	Measurement	Method	Use	Remarks
WATER	LEVEL	(ft.)	surface	of	of	
				lift	water	
				meter		
522	83		Oct. 22, 1945	F, G,	Irr	Pump set at 130 feet, 8-inch column.
523	76.6		do.	F, G,	Irr	Do.
524	72.7		do.	F, G,	Irr	
525	70.3		do.	F, G,	Irr	
526	109		do.	F, G,	Irr	Pump set at 140 feet, 8-inch column.
527	109.7		do.	F, G,	Irr	Pump set at 140 feet, 8-inch column. See log.
528	8/108		--	F, G,	Irr	Pump set at 150 feet, 8-inch column. See log.
529	113.2		Oct. 22, 1945	F, G,	Irr	Pump set at 140 feet, 8-inch column.
530	--		--	F, G,	Irr	
531	135.9		Oct. 15, 1945	F, N, G,	Irr	Pump set at 150 feet, 8-5/8-inch column. See log.
532	111.6		do.	F, G,	Irr	Pump set at 140 feet, 8-inch column.
533	79.2		do.	F, G,	Irr	Pump set at 130 feet, 8-inch column. See log.
534	8/80		Jan. 1941	F, G,	Irr	Pump set at 120 feet, 8-inch column. See log.
535	82.4		Oct. 15, 1945	F, E,	Irr	Pump set at 130 feet, 9-inch column. See log.
536	81.1		do.	F, E,	Irr	Do.
537	71.3		do.	F, E,	Irr	
538	8/75		--	F, G,	Irr	Pump set at 140 feet, 8-5/8-inch column.
539	77.9		Oct. 12, 1945	F, E,	Irr	Pump set at 100 feet, 8-inch column.
540	71.1		do.	F, G,	Irr	Pump set at 130 feet, 8-inch column.
541	68.2		Nov. 5, 1945	F, G,	Irr	
542	--		--	F, G,	Irr	Pump set at 108 feet, 8-5/8-inch column.
543	86.2		Nov. 5, 1945	F, G,	Irr	Pump set at 120 feet, 8-5/8-inch column. Yield reported 1,200 gallons a minute.
544	78.4		do.	F, G,	Irr	Pump set at 120 feet, 8-5/8-inch column. Yield reported 1,225 gallons a minute.
545	77.8		do.	F, G,	Irr	Yield reported 1,000 gallons a minute.
546	119.3		Nov. 6, 1945	F, G,	Irr	Pump set at 144 feet, 8-5/8-inch column. Yield reported 1,100 gallons a minute.
547	107.2		Nov. 7, 1945	F, G,	Irr	Pump set at 140 feet, 8-5/8-inch column. Yield reported 1,000 gallons a minute. See log.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
548	10 miles west	H. M. Thomas	Don R. Combs	1945	224	16,12	1
549	8 miles northwest	Walter David & Son	--	1938	--	16	2
550	6½ miles northwest	do.	Bradford Supply Co.	1939	200	16	1
551	7½ miles northwest	do.	Don R. Combs	1945	250	16	1
552	7 miles northwest	Dora J. Inman	--	--	--	--	1
553	6½ miles northwest	R. W. Lindsey	--	--	--	--	8
554	do.	J. R. Mosely Est.	Bud Gibbons	1940	268	16	1
555	6 miles northwest	W. W. Hill	Jim Mauk	1940	--	--	1
556	do.	Dr. G. F. Legrand	Bradford Supply Co.	1939	170	16	1
557	9 miles northwest	W. H. Stocker	--	1946	210	16	--
558	10½ miles northwest	Don R. Combs	Don R. Combs	1940	225	16	5
559	9-1/4 miles northwest	Klutts & Gross	Bradford Supply Co.	1938	285	16	1
560	9½ miles northwest	Fred S. Barrett	--	--	197	16	1.5
561	9-3/4 miles northwest	do.	--	1944	200	16	1
562	10 miles northwest	do.	--	--	--	--	1
563	9 miles northwest	Mrs. Byrdie Wilkinson	W. D. Jones	1940	200	16	--
564	8½ miles northwest	C. Q. Smith	Hereford-Johnston Pump Co.	1945	238	16	1.8
565	10 miles northwest	J. R. Lipscomb	Bud Gibbons	1940	230	16	1
566	12 miles northwest	G. W. Brumley	Plains Land Roller Co.	1945	285	16	6
567	8½ miles west	E. L. Hessner	--	1940	215	--	1
568	14 miles west	Mrs. A. B. Best	--	1939	64	--	0.1
701	12-3/4 miles northeast	Wm. F. Gillis & Viola L. Williams	--	1943	230	16	1.8
702	13-3/4 miles northeast	Lawrence McGee	--	1945	200	16	2
703	11-3/4 miles northeast	R. B. Latham, Sr.	Plains Land Roller Co.	1945	204	18	--
704	12 miles northeast	do.	do.	1945	204	18	--

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
548	90.3	Nov. 7, 1945	T, G, 40	Irr	Pump set at 150 feet.
549	95.3	Nov. 6, 1945	T, E, 50	Irr	
550	99.5	do.	T, E, 50	Irr	
551	91.7	Nov. 7, 1945	T, G, 70	Irr	Pump set at 150 feet, 8-inch column. Yield reported 1,200 gallons a minute.
552	93.4	do.	T, G, 35	Irr	
553	98.8	Nov. 9, 1945	T, O, 150	Irr	
554	98.3	do.	T, E, 50	Irr	Pump set at 140 feet, 8-5/8-inch column.
555	92.1	do.	T, O, 120	Irr	
556	82.6	Nov. 7, 1945	None	N	Water sand reported from 74 to 170 feet.
557	d/93	--	T, G, 40	Irr	Drawdown reported 37 feet while pumping about 800 gallons a minute.
558	68.2	Nov. 7, 1945	T, G, 35	Irr	Pump set at 110 feet, 8-inch column. Yield reported 1,000 gallons a minute.
559	99.4 104.5	Dec. 8, 1938 Nov. 7, 1945	T, G, 80	Irr	Pump set at 160 feet. Yield reported 1,600 gallons a minute. Red clay reported at 285 feet.
560	103.3	Nov. 7, 1945	T, G, 35	Irr	Pump set at 140 feet, 8-inch column.
561	114.6	do.	T, G, 35	Irr	Pump set at 150 feet, 8-inch column.
562	128.4	do.	T, G, 35	Irr	Pump set at 160 feet, 8-inch column.
563	d/106	Nov. 29, 1940	T, G, 40	Irr	Pump set at 140 feet, 8-5/8-inch column. See log.
564	102	Nov. 7, 1945	T, -, -	Irr	Pump set at 140 feet, 8-inch column.
565	139.5	do.	T, G, 40	Irr	Pump set at 170 feet, 8-5/8-inch column. Yield reported 950 gallons a minute.
566	182.2	do.	T, G, 84	Irr	Pump set at 232 feet, 8 1/4-inch column. Yield reported 1,000 gallons a minute.
567	103.9	Nov. 6, 1945	T, E, 40	Irr	Pump set at 155 feet, 8-5/8-inch column. See log.
568	57.5	Dec. 6, 1939	None	N	No casing. See log.
701	89.9	Nov. 30, 1945	T, G, 35	Irr	Pump set at 140 feet, 8-inch column.
702	93.5	do.	T, G, 72	Irr	Pump set at 144 feet, 8 1/4-inch column. Yield reported 1,100 gallons a minute.
703	d/85	Dec. , 1945	T, G, 70	Irr	Pump set at 128 feet, 10 1/4-inch column. Yield reported 1,400 gallons a minute.
704	d/85	Dec. , 1945	T, G, 70	Irr	Pump set at 128 feet, 10 1/4-inch column.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
705	12½ miles northeast	Walter Galley	Plains Land Roller Co.	1945	200	16	1
706	13 miles northeast	Lawrence McGee	do.	1945	200	16	1
707	13-1/4 miles northeast	Walter Galley	Jones & Stevens	1941	196	16	--
708	14-1/4 miles northeast	John R. Mayo & Walter Galley	W. D. Jones	1940	200	16	--
709	15½ miles northeast	Virginia Wrather	Hereford-Johnston Pump Co.	1944	203	16	1.8
710	17½ miles northeast	J. M. White	do.	1944	212	16	1.8
711	do.	Brunner & Spurrier	-- Gatlin	1945	200	16	2
712	17 miles northeast	Clarence L. McBroom	-- Jones	1944	200	16	1.2
713	18-3/4 miles northeast	A. Beckman	--	1945	--	--	1.5
714	15 miles northeast	J. T. Gilbreath Jr.	Jones & Stevens	1940	180	14	--
715	16 miles northeast	C. J. Beckman	W. L. Bishop	1940	200	14	1
716	15½ miles northeast	Ted Irlbeck	Plains Land Roller Co.	1945	200	16	--
717	27 miles northeast	H. H. Elam	--	1940	300	16	--
801	8-1/4 miles north	Charles E. Hood	Earl Scott	1945	210	16	1
802	7-3/4 miles north	C. N. Crosby	--	--	--	--	1
803	9 miles north	C. V. Burgess	Bradford Supply Co.	1939	202	14	1.2
804	8½ miles north	Elster M. Hale	Hereford-Johnston Pump Co.	1943	146	16	1.8
805	7-1/4 miles north	Ira Ricketts	L. Ellis	1941	200	16	4
806	7½ miles north	V. E. Dodson	do.	1941	165	16	1.5
807	8-1/4 miles north	J. S. Maxfield	Don R. Combs	1945	210	16	1
808	8-3/4 miles north	do.	Bud Gibbons	1940	200	16	1.3
809	9-3/4 miles north	Lewis Harvey	Bradford Supply Co.	1938	200	14	--
810	9½ miles north	J. L. McGee	Bud Gibbons	1940	200	16	1
811	do.	F. J. Walterscheid	Hereford-Johnston Pump Co.	1945	200	16	1.8

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
705	75.9	Nov. 30, 1945	T, G, 70	Irr	Pump set at 144 feet, 8 1/4-inch column. Yield reported 1,250 gallons a minute.
706	88.2	do.	T, G, 70	Irr	Pump set at 144 feet, 8 1/4-inch column. Yield reported 1,250 gallons a minute.
707	d/78	1941	T, -	Irr	Pump set at 140 feet, 8-inch column. Estimated yield 1,200 gallons a minute.
708	d/100	Sept. 1940	T, -	Irr	Pump set at 130 feet, 10-inch column. Yield reported 1,500 gallons a minute. See log.
709	95.2	Mar. 8, 1946	T, G, 50	Irr	Pump set at 140 feet, 8-inch column.
710	90.7	Dec. 14, 1945	T, G, 40	Irr	Do.
711	89.3	do.	T, G, 60	Irr	Pump set at 145 feet, 8-inch column.
712	94.2	do.	T, G, 40	Irr	Pump set at 140 feet, 8-inch column.
713	93.4	Dec. 13, 1945	T, G, 70	Irr	
714	d/85	June 1940	T, G, -	Irr	Pump set at 130 feet, 9-inch column.
715	87.7	Dec. 13, 1945	T, G, 40	Irr	Cased to 166 feet. Pump set at 130 feet 5/8-inch column. See log.
716	d/85	Sept. 1945	T, G, 70	Irr	Pump set at 144 feet, 8 1/4-inch column. Yield reported 900 gallons a minute.
717	d/180	---	--	--	Abandoned irrigation well. Filled in to 135 feet when visited on May 31, 1946.
801	87.4	Nov. 9, 1945	T, G, 72	Irr	Cased to 190 feet, Pump set at 140 feet, 8-inch column. Yield reported 1,000 gallons a minute.
802	75.9	do.	T, G, 40	Irr	
803	82.6	Dec. 12, 1945	T, E, 30	Irr	
804	76.6	do.	T, G, 35	Irr	Pump set at 130 feet, 8-inch column
805	96.2	do.	T, G, 35	Irr	Pump set at 120 feet, 8-inch column
806	59.1	do.	T, G, 35	Irr	Pump set at 120 feet, 7-inch column
807	65.9	Dec. 11, 1945	T, G, 35	Irr	Estimated yield 700 gallons a minute. Pump set at 100 feet, 8 5/8-inch column. Yield reported 1,000 gallons a minute. See log.
808	70	do.	T, G, 35	Irr	Pump set at 100 feet, 8 5/8-inch column.
809	--	---	T, G, 35	Irr	
810	80.5	Dec. 11, 1945	T, G, 70	Irr	Pump set at 100 feet, 8 5/8-inch column. Yield reported 1,000 gallons a minute.
811	81.8	do.	T, G, 40	Irr	Pump set at 130 feet, 8-inch column.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
812	7 $\frac{1}{2}$ miles north	Earnest McGee	Plains Land Roller Co.	1945	185	16	1.5
813	9 $\frac{3}{4}$ miles northeast	Ernest M. May	-- Gibbons	1940	170	14	--
814	10 miles northeast	R. B. Latham	Hereford-Johnston Pump Co.	1944	200	16	--
815	10 $\frac{1}{2}$ miles northeast	R. G. Lewis	--	1944	200	16	--
816	do.	Marvin Diller	Green Machinery Co.	1943	203	16	--
817	10 $\frac{3}{4}$ miles northeast	Troy Womble	Plains Land Roller Co.	1945	165	16	2
818	9 miles northeast	J. L. Click	--	Old	208	16	1
819	10 $\frac{1}{2}$ miles northeast	Troy Womble	-- Jones	1940	136	14	1
820	11 $\frac{1}{2}$ miles northeast	do.	W. L. Bishop	1940	178	14	5
821	11 miles northeast	H. H. Miller	--	1940	175	16	3
822	do.	R. E. Underwood, Jr.	--	1941	200	15 $\frac{1}{2}$	1
823	12 $\frac{3}{4}$ miles northeast	Lawrence McGee	Henry Patzig	1941	--	--	--
824	12 $\frac{1}{2}$ miles northeast	William Wimberly	Frank Vance	1940	194	14	1.8
825	12 miles northeast	Earnest May	--	1940	180	14	1.5
826	12 $\frac{1}{2}$ miles northeast	C. T. Wimberly	Hereford-Johnston Pump Co.	1944	258	16	1.8
827	13 $\frac{3}{4}$ miles northeast	Roy E. Neal	-- Fisher	1940	180	14	1.3
828	15 $\frac{1}{2}$ miles northeast	E. J. Friemel	--	1940	185	16	1.3
829	16 miles northeast	do.	Plains Land Roller Co.	1945	210	16	--
830	12 $\frac{3}{4}$ miles east	E. H. Norton	--	1945	95	--	0
831	9 $\frac{3}{4}$ miles northeast	Ezra H. Norton	Hereford-Johnston Pump Co.	1945	182	16	--
832	11 miles east	H. B. Fain	--	1944	180	16	1.8
833	10 $\frac{1}{2}$ miles east	C. A. Wimberly	--	1944	160	16	--
834	10 miles northeast	George Suggs	Bud Gibbons	1940	200	14	--
835	9 $\frac{1}{4}$ miles northeast	Mrs. Eula Rambo	--	--	--	--	--
836	7 $\frac{1}{4}$ miles northeast	B. A. Donelson	--	1943	150	16	1.5

Well	WATER	LEVEL	Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
812	58.2	Dec. 11, 1945	T,G, 64	Irr	Pump set at 120 feet, 8 $\frac{1}{4}$ -inch column. Yield reported 1,350 gallons a min-
813	d/64	Jan. 1940	T,G, 40	Irr	Pump set at 110 feet, 8-5/8- inch column. Yield reported 1,200
814	d/69	1944	T,G, 40	Irr	Pump gallons a minute. See log. set at 130 feet, 8-inch column.
815	d/70	1944	T,G, 40	Irr	Do.
816	d/70	1945	T,G, 70	Irr	Pump set at 120 feet, 8-5/8-inch column. See log.
817	77.6	Dec. 14, 1945	T,G, 45	Irr	Pump set at 136 feet, 8 $\frac{1}{4}$ -inch column. Yield reported 1,200 gallons a min-
818	67.5	Dec. 11, 1945	T,E, 30	Irr	Pump set at 115 feet. See ute. log.
819	66.4	Dec. 14, 1945	T,E, 30	Irr	
820	79.5	do.	T,G, 40	Irr	Pump set at 130 feet, 9-inch column.
821	71.4	Dec. 13, 1945	T,G, 70	Irr	Pump set at 120 feet, 8-5/8-inch column. Reported yield 1,000
822	71.6	do.	T,G, 40	Irr	Pump gallons a minute. See log. set at 110 feet, 8-inch column.
823	--	--	T,E, 40	Irr	Do.
824	76.8	Dec. 13, 1945	T,E, 40	Irr	Pump set at 130 feet, 9-inch column. Drawdown reported 25 feet after pumping 1,050 gallons a minute for
825	73.2	Dec. 14, 1945	T,G, 40	Irr	Pump set at 110 several hours. feet, 8-5/8-inch column. Yield reported 1,000 gallons a minute.
826	80	Dec. 13, 1945	T,G, 35	Irr	Pump set at 140 feet, 8-inch column.
827	77.1	do.	T,G, 70	Irr	Pump set at 110 feet, 8-inch column.
828	83.3	do.	T,G, 40	Irr	Pump set at 150 feet, 8-inch column.
829	d/85	Nov. 1945	T,G, 70	Irr	Pump set at 176 feet, 8 $\frac{1}{4}$ -inch column. Yield reported 1,000 gallons
830	61.6	Oct. 30, 1945	None	N	Supply reported insuffi- a minute. cient for irrigation. "Red beds" at
831	d/54	1945	T,G, 40	Irr	Pump set at 130 feet, 90 feet. 8-inch column.
832	87.6	Oct. 31, 1945	T,E, 30	Irr	Do.
833	--	--	None	N	Supply reported insufficient for irrigation. "Red beds" at 150 feet.
834	d/78	Apr. 1940	T,G, 40	Irr	Pump set at 140 feet, 8-5/8-inch column. See log.
835	--	--	None	N	Supply reported insufficient for irrigation. "Red beds" from 156
836	45.3	Nov. 30, 1945	T,G, 30	Irr	to 200 feet.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
837	4 $\frac{3}{4}$ miles northeast	T. M. Dameron	L. Ellis	1945	133	16	5
838	7 $\frac{1}{2}$ miles northeast	Edward C. Reinauer	Bradford Supply Co.	1939	247	14	2.5
839	5 $\frac{3}{4}$ miles northeast	Ethel Faye Plenk	L. Ellis	1945	165	16	--
840	7 miles northeast	J. S. Maxfield	Bud Gibbons	1940	200	16	1
841	6 $\frac{3}{4}$ miles north	Mrs. A. C. Thompson	do.	1940	180	16	--
842	6 miles northeast	W. N. Hodges	Hereford-Johnston Pump Co.	1944	200	16	1.8
843	6 $\frac{1}{4}$ miles northeast	do.	do.	1944	217	16	--
844	6 $\frac{1}{2}$ miles northeast	do.	do.	1944	200	16	2
845	6 $\frac{1}{4}$ miles northeast	R. R. Lindsey	do.	1945	212	16	--
846	6 $\frac{1}{2}$ miles northeast	do.	do.	1945	212	16	1.5
847	5 $\frac{1}{4}$ miles northeast	W. G. Russell	do.	1945	190	16	1
848	5 $\frac{1}{2}$ miles northeast	do.	do.	1945	180	16	1
849	5 $\frac{3}{4}$ miles northeast	do.	do.	1945	180	16	1
850	5 $\frac{1}{2}$ miles northeast	do.	do.	1945	180	--	0
851	4 $\frac{3}{4}$ miles northeast	Ben L. Urbanczyk	--	--	--	--	1
852	4 $\frac{3}{4}$ miles north	T. A. Preston	L. Ellis	1938	150	14	--
853	3 $\frac{1}{2}$ miles north	J. Roy Davis	Hereford-Johnston Pump Co.	1945	206	16	1.8
854	3 miles northeast	A. R. Hughes	L. Ellis	1940	150	14	1.8
855	do.	W. S. Kerr	Jones & Stevens	1940	193	12	1.5
856	4 miles north	Cecil S. Gunter	--	--	--	--	5
857	3 $\frac{3}{4}$ miles north	D. L. McDonald	D. L. McDonald	1939	240	18	--
858	5 $\frac{3}{4}$ miles north	D. W. Wellece	Bud Gibbons	1940	272	16	--
859	5 miles north	W. Jenkins	do.	1940	200	16	--
860	6 $\frac{1}{4}$ miles north	W. M. Marnell	W. L. Bishop	1940	149	--	--

Well	Water Level	Date of	Measurement	Below	(ft.)	Method	Use	Remarks
837		Nov. 29, 1945	1.5	L, E	35	Lift	water	Pump set at 88 feet, 6-inch column. Yield reported 500 gallons a minute.
838		Nov. 30, 1945	46.5	L, G	35			
839		May 1945	46.5	L, G	35			
839	4/65	Dec. 11, 1945	56.6	L, G	35			Pump set at 104 feet, 8 1/2-inch column. Yield reported 1,000 gallons a minute.
840		Dec. 11, 1945	56.6	L, G	35			Pump set at 120 feet, 8-inch column. Yield reported 1,000 gallons a minute.
841	4/42	Mar. 1940		L, G	40			Pump reported 1,000 gallons a minute. Yield reported 1,000 gallons a minute. Pump set at 120 feet, 8-inch column.
842		Nov. 30, 1945	46.7	L, G	35			Pump set at 130 feet, 8-inch column. Yield reported 1,000 gallons a minute.
843				L, -	-			Do.
844		Nov. 30, 1945	46.2	L, G	40			Do.
845				L, G	70			Pump set at 130 feet, 10-inch column.
846		Dec. 12, 1945	60.6	L, G	70			Do.
847		Oct. 31, 1945	52.2					Yield reported 600 gallons a minute. Pump not installed when visited on October 31, 1945.
848			51.1					Yield reported 1,200 gallons a minute. Pump not installed when visited on October 31, 1945.
849			49.6					Yield reported 1,200 gallons a minute. Pump not installed when visited on October 31, 1945.
850			52.6	None				No casing. Supply reported insufficient for irrigation. "Red beds" at 175 feet.
851		Nov. 29, 1945	50.4	L, G	35			Pump set at 70 feet.
852	4/50			L, G	40			Pump set at 70 feet.
853		Nov. 28, 1945	58.4	L, G	30			Pump set at 130 feet. Yield reported 1,000 gallons a minute.
854		Nov. 29, 1945	54.2	L, E	25			Pump set at 100 feet, 8-inch column.
855			55.7	L, E	25			Pump set at 90 feet, 7-inch column. Dreddown reported 25 feet while pumping 700 gallons a minute.
856			59.6	L, E	30			do.
857	4/51	Oct. 1939		L, E	30			
858	4/60			L, E	30			Cased to 245 feet. Pump set at 120 feet, 8 1/2-inch column. See log.
859	4/80			L, G	35			Pump set at 110 feet, 8 1/2-inch column. Yield reported 1,000 gallons a minute.
860	4/68	Aug. 1940		L, G	40			Pump set at 130 feet, 9-inch column. See log.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
861	6 $\frac{1}{4}$ miles north	Mabel C. Ross	Don R. Combs	1945	212	16	--
862	6 $\frac{3}{4}$ miles north	Robert L. Hoffman	John Fish	1945	200	16	1
863	8 miles north	Mrs. Janie Beardon	L. Ellis	1940	186	16	--
864	9 miles north	Louis J. Barclay	--	1942	173	16	1
865	2 $\frac{1}{2}$ miles northeast	Herman Ford	Plains Land Roller Co.	1945	170	16	1
866	5 $\frac{1}{2}$ miles north	J. L. Hoffman	--	1942	200	16	1
867	5 miles north	Charles Green	--	1940	202	16	--
868	7 miles north	C. C. Bowman	Jones & Stevens	1940	150	16	--
869	6 $\frac{3}{4}$ miles north	Arnold Betzen	Plains Land Roller Co.	1945	180	16	1
870	7 $\frac{1}{2}$ miles north	do.	do.	1945	170	18	--
871	8 $\frac{1}{2}$ miles north	W. R. Moody	Hereford- Johnston Pump Co.	1943	160	16	--
872	8 $\frac{3}{4}$ miles north	Fred Saltzman	Jones & Stevens	1941	200	16	1
873	13 miles east	W. D. Twichell	William McGehee	1945	140	18, 12	--
874	5 $\frac{1}{2}$ miles northwest	Jerry Keith	--	--	--	--	1
875	5 $\frac{1}{4}$ miles northwest	do.	--	1945	--	--	4
876	3 $\frac{1}{4}$ miles northwest	W. Harrison Wilson	Hereford- Johnston Pump Co.	1938	200	16	1.8
877	4 miles northwest	Edgar Telchik	do.	1945	208	16	1
878	2 $\frac{1}{4}$ miles north	John W. Kropff	--	--	--	--	--
879	1 mile north	Roy T. Slagle	Jones & Stevens	1940	125	--	--
880	1 $\frac{1}{2}$ miles northeast	H. T. Case	L. Ellis	1940	135	12	--
881	2 $\frac{3}{4}$ miles northwest	O. R. Bearden	Hereford- Johnston Pump Co.	1945	240	16	1
882	2 $\frac{1}{2}$ miles northwest	Pat Robinson	do.	1944	198	16	1.5
883	4 miles northeast	L. Ellis	--	--	--	--	4
884	3 $\frac{1}{2}$ miles northeast	Cecil Phillips	L. Ellis	1945	180	16	1
885	3 miles northeast	do.	--	--	--	--	1.5

Well	WATER LEVEL		Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
861	d/70	June 1945	T,G, 35	Irr	Pump set at 120 feet, 8-inch column. Yield reported 1,200 gallons a minute.
862	85.3	Dec. 12, 1945	T,G, 72	Irr	Pump set at 162 feet, 9-inch column. Yield reported 1,250 gallons a minute.
863	d/79	--	T,G, 50	Irr	Pump set at 120 feet, 8-inch column. Yield reported 1,250 gallons a minute. See log.
864	77.9	Dec. 12, 1945	T,G, 35	Irr	Pump set at 120 feet, 8-inch column. Yield reported 1,000 gallons a minute.
865	54	do.	T,E, 30	Irr	Pump set at 120 feet, 8 $\frac{1}{4}$ -inch column. Yield reported 1,000 gallons a minute.
866	71.6	Dec. 10, 1945	T,G, 50	Irr	Pump set at 110 feet, 10-inch column. Yield reported 1,000 gallons a minute.
867	--	--	T,E, 30	Irr	Pump set at 110 feet, 8 $\frac{5}{8}$ -inch column.
868	d/62	Dec. 10, 1945	T,G, 40	Irr	Pump set at 100 feet, 8-inch column.
869	60.8	Dec. 6, 1945	T,G, 54	Irr	Pump set at 152 feet, 8 $\frac{1}{4}$ -inch column.
870	d/73	June 1945	T,G, 54	Irr	Pump set at 144 feet, 8-inch column. Yield reported 1,000 gallons a minute.
871	d/85	--	T,G, 35	Irr	Pump set at 130 feet, 8-inch column. Pumping level 108.5 feet below land surface on December 12, 1945.
872	92	Nov. 9, 1945	T,G, 100	Irr	Pump set at 130 feet, 8-inch column.
873	d/65	Jan. 25, 1945	None	N	Yield reported 200 gallons a minute. Drawdown 61 feet after pumping 900 gallons a minute for 4 $\frac{1}{2}$ minutes.
874	74.8	Nov. 9, 1945	T,E, 40	Irr	See log.
875	71.5	do.	T,G, --	Irr	
876	72.5	Dec. 8, 1938	T,G, 35	Irr	Pump set at 120 feet, 9-inch column.
	80	Nov. 28, 1945			
877	71	do.	T,G, 35	Irr	Pump set at 128 feet.
878	--	--	T,G, 40	Irr	
879	--	--	T,E, 10	Irr	Pump set at 80 feet, 6-inch column.
880	d/72	--	T,E, 15	Irr	Pump set at 90 feet, 7-inch column.
881	102.4	Nov. 5, 1945	T,G, 60	Irr	Pump set at 140 feet, 8-inch column.
882	45.7	Nov. 28, 1945	T,G, 35	Irr	Do.
883	52	Nov. 29, 1945	T,G, 35	Irr	
884	52.4	do.	T,E, 20	Irr	Pump set at 128 feet, 8 $\frac{1}{4}$ -inch column. Yield reported 500 gallons a minute.
885	55.3	do.	T,G, 50	Irr	

Records of wells and springs in Deef Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
886	1½ miles north	Burch West	Plains Land Roller Co.	1945	160	16	--
887	3 miles west	O. E. Easley	H. P. Price	1940	190	14½	1
888	2½ miles west	Walter Seed	Bud Gibbons	1941	205	15½	--
889	2 miles west	George Robinson	Hereford-Johnston Pump Co.	1945	205	16	1
890	do.	W. McGehee	do.	1945	197	16	--
891	2½ miles east	Irwin A. Reeves	--	1945	220	16	1.5
892	1½ miles northwest	James Jones	Frank Vence	1940	110	14	--
893	4 miles southeast	Devis & McCracken	Don R. Combs	1945	220	16	6.5
894	2 miles southeast	George Bippus	--	1939	180	14	2
895	1¼ miles southeast	Joe Ballenger	Frank Vence	1940	150	14	1.5
896	2½ miles southeast	Dr. G. W. Heard	Hereford-Johnston Pump Co.	1944	180	16	1.5
897	1½ miles south	Miss Roberta Campbell	Jones & Stevens	1940	150	14	--
898	1 mile west	J. B. Gazaway	W. D. (Dub) Jones	--	112	10	--
899	2½ miles south	Dr. G. W. Heard	Hereford-Johnston Pump Co.	1944	200	16	1.5
900	3 miles south	do.	do.	1944	200	16	1.5
901	2½ miles south	Joe Ballinger	do.	1944	175	16	1.8
902	do.	do.	do.	1944	175	16	2.5
903	2 miles southwest	J. Paul Getty	Bud Gibbons	1941	220	15½	0
904	In Hereford	City of Hereford	Bradford Supply Co.	1939	160	20	--
905	do.	do.	Hereford-Johnston Pump Co.	1945	200	18	--
906	do.	do.	do.	1945	200	18	1.8
907	5 miles south	Frank J. Knabe	do.	--	165	16	1.5
908	4½ miles south	W. S. Littrell	Plains Land Roller Co.	1945	180	16	--
909	3½ miles southwest	Joe Kendall	Green Machinery Co.	1943	174	16	--
910	5 miles south	Joe Reinauer	Bud Gibbons	1940	206	15½	1

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
886	d/55	--	T, E, 15	Irr	Pump set at 96 feet, 6-inch column. Yield reported 500 gallons a minute
887	105.1	Nov. 5, 1945	T, G, 40	Irr	Pump set at 140 feet, 8-inch column. See log.
888	d/68 82.9	Feb. 28, 1941 Nov. 5, 1945	T, E, 40	Irr	Cased to 199 feet. Pump set at 110 feet, 8-5/8-inch column. Yield reported 1,000 gallons a minute. See log.
889	77.4	do.	T, E, 40	Irr	Pump set at 140 feet, 8-inch column.
890	d/68	Dec. 1945	T, G, 60	Irr	Pump set at 130 feet, 10-inch column.
891	49	Oct. 29, 1945	T, G, 35	Irr	Pump set at 110 feet, 8-inch column. Yield reported 1,000 gallons a
892	d/65	--	T, E, 7 1/2	Irr	Pump set at 70 feet, 6-inch column. Measured yield 510 gallons a minute.
893	86.1	Feb. 28, 1946	T, G, 70	Irr	Pump set at 130 feet, 8-inch column. Yield reported 1,100 gallons a minute.
894	57.4	Oct. 29, 1945	T, E, 25	Irr	Cased to 170 feet. Yield reported 1,100 gallons a minute.
895	60.1	Oct. 30, 1945	T, E, 30	Irr	Cased to 140 feet. Pump set at 100 feet, 9-inch column. Estimated yield 1,000 gallons a minute.
896	57.7	Oct. 29, 1945	T, Ng, 30	Irr	Pump set at 120 feet, 8-inch column.
897	d/63	--	T, G, 35	Irr	
898	--	--	T, E, 5	Irr	Pump set at 90 feet, 5-inch column.
899	82.7	Oct. 27, 1945	T, E, 40	Irr	Pump set at 130 feet, 8-inch column.
900	81.3 77.9	Oct. 27, 1945 Feb. 26, 1946	T, E, 40	Irr	Do.
901	74.8	Oct. 27, 1945	T, E, 40	Irr	Do.
902	76.5	do.	T, E, 40	Irr	Do.
903	60.9	Oct. 29, 1945	T, G, 35	Irr	Pump set at 120 feet, 8-inch column. Yield reported 1,200 gallons a
904	d/70	Oct. 1944	T, E, 50	P	Yield reported 1,000 gallons a minute.
905	d/70	--	T, E, 40	P	Yield reported 1,000 gallons a minute. Well was being developed
906	55.4	Dec. 18, 1945	T, E, 40	P	Yield reported 1,000 gallons a minute. on November 17, 1945.
907	97.9	Oct. 13, 1945	T, E, 30	Irr	Pump set at 130 feet, 8-inch column
908	d/85	Nov. 1945	T, G, 65	Irr	Pump set at 128 feet, 8 1/4-inch column. Yield reported 1,200
909	--	--	T, G, 40	Irr	Cased to 170 feet. Yield reported 1,200 gallons a minute. Pump set at 110 feet, 8-5/8-inch
910	103	Oct. 13, 1945	T, E, 30	Irr	Pump set at 110 feet, 8-inch column. See log. Yield reported 750 gallons a minute.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
911	5½ miles south	C. E. Hagenstoz	Bud Gibbons	1941	250	16, 14	--
912	5 miles south	E. L. Hessmer	-- Miller	1941	205	16	4
913	5¼ miles southwest	Jack Johnson	--	1943	160	16	1.8
914	4½ miles south	John J. Peetzold	--	1944	199	16	1.8
915	3¾ miles south	Reinauer Bros.	--	--	200	16	1
916	4 miles south	Conrad P. Urbanczyk	Bud Gibbons	1940	160	16	0.5
917	do.	do.	Hereford-Johnston Pump Co.	1944	165	16	1.8
918	do.	Reinauer Bros.	do.	--	210	16	1.8
919	4¼ miles southeast	H. Casad	Bradford Supply Co.	1939	204	16	1
920	do.	do.	Jones & Stevens	1940	--	--	--
921	2¾ miles southeast	Leo Forrest	--	1941	--	--	3.5
922	3¾ miles south	Davis & McCracken	Bradford Supply Co.	1939	200	16	1.2
923	do.	Frank J. Bezner	Jones & Stevens	1940	150	14	--
924	2¼ miles south	Ed. Dziuk	Joe Lytle	1938	83	5	0.5
925	2¾ miles south	Adolph S. Megert	Hereford-Johnston Pump Co.	1942	150	16	1.8
926	1 mile southeast	C. F. Kerr	Dub Jones	1940	135	10	--
927	2¼ miles south	Henry C. Bowsher	--	1941	--	--	1
928	3 miles southeast	H. L. Benefield	Bradford Supply Co.	1939	--	16	--
929	3¼ miles southeast	do.	Bud Gibbons	1941	198	16	--
930	2¾ miles southeast	A. E. Jury	Plains Lend Roller Co.	1945	180	16	--
931	3¼ miles east	E. A. Albrecht	Bud Gibbons	1940	180	16	4
932	4½ miles southeast	John J. Peetzold	do.	1943	200	14	1.1
933	5 miles southeast	do.	J. O. Lytle	1939	160	14	--
934	5¼ miles southeast	Liston O. Wilson	Frank Vance	1940	160	14	1.5
935	6 miles southeast	Louis P. Blosser	Hereford-Johnston Pump Co.	1943	200	16	--

Well	WATER	LEVEL	Method of lift b/ c/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
911	d/100	--	T,G, 40	Irr	Pump set at 160 feet, 8-5/8-inch column. Yield reported 900 gallons
912	102.6	Oct. 13, 1945	T,E, 40	Irr	Cased to 198 feet. Pump set at 130 feet, 8-5/8-inch column. a minute.
913	92.5	do.	T,Ng, 40	Irr	Pump set at 140 feet, See log. 8-inch column. Yield reported 800
914	99.2	Oct. 25, 1945	T,E, 30	Irr	Pump set at 130 feet, 8-inch column. gallons a minute.
915	83.2	Oct. 27, 1945	T,E, 30	Irr	Pump set at 120 feet, 8-inch column.
916	80.1	do.	T,O, 40	Irr	Pump set at 110 feet, 8-5/8-inch column. See log.
917	83	do.	T,G, 40	Irr	Pump set at 120 feet, 8-inch column.
918	87.8	do.	T,E, 25	Irr	Pump set at 110 feet, 8-inch column.
919	e/81.8	Aug. 1, 1939	T,E, 30	D,S, Irr	Yield reported 650 to 700 gallons a minute in 1945. Observation well.
920	--	--	T,G, 40	Irr	Pump set at 120 feet, 7-inch column.
921	57.2	Oct. 29, 1945	T,E, 30	Irr	Pump set at 110 feet, 8-inch column.
922	81.8	do.	T,Ng, 60	Irr	
923	d/68	--	T,E, 40	Irr	Pump set at 120 feet, 8-inch column. Drawdown reported 30 feet after pumping 1,250 gallons a minute for
924	67.8	Feb. 6, 1942	C,W,G, 3	D, Irr	Irrigates small garden. 1 month. Observation well.
925	74.8	Oct. 29, 1945	T,E, 40	Irr	Pump set at 120 feet, 9-inch column.
926	d/65	--	T,E, 5	Irr	Pump set at 80 feet, 4-inch column.
927	68.4	Oct. 29, 1945	T,G, 35	Irr	Pump set at 110 feet, 8-inch column.
928	--	--	C,W	--	Reported drilled for irrigation, now equipped with windmill.
929	d/68	--	T,G, 35	Irr	Cased to 160 feet. Pump set at 108 feet, 8-5/8-inch column.
930	d/60	--	T,G, 54	Irr	Pump set at 120 feet, 8 1/4-inch column. Yield reported 1,200
931	56.8	Oct. 30, 1945	T,G, 40	Irr	Pump set at 90 feet, 10-inch column. gallons a minute. See log.
932	100	Oct. 25, 1945	T,G, -	Irr	Pump set at 120 feet, 8-5/8-inch column. Yield reported 1,000
933	d/85	--	T,E, 30	Irr	Pump set at 120 feet, 8-inch column. Estimated yield 700 gallons a minute.
934	95.7	Oct. 25, 1945	T,E, 30	Irr	Pump set at 130 feet, 8-inch column. Observation well.
935	d/90	--	T,G, 40	Irr	Pump set at 140 feet.

Records of wells and springs in Deaf Smith County--Continued

Well	Distance from Hereford	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
936	5½ miles southeast	C. H. Puckett	William Muncey	1941	252	16	6.5
937	do.	G. W. Newsom	W. J. Altman	1940	185	16	1
938	4¼ miles east	Fred Arnold	Jones & Stevens	1940	160	16	1.5
939	4½ miles east	Ira Scott	--	1938	--	--	--
940	4¼ miles east	W. J. Albrecht	Bud Gibbons	1940	175	14	3
941	do.	W. G. Russell	Hereford Johnston Pump Co.	1945 1	100	--	0
942	5 miles east	H. B. Whittington	--	--	--	--	--
943	3½ miles east	Harry Schulz	W. L. Bishop	1940	154	16	4
944	5 miles east	W. G. Russell	Hereford Johnston Pump Co.	1945	120	16	1
945	13 miles east	H. B. Fain	-- Furgeson	1938	200	14	0.6
946	13½ miles east	W. D. Twichell	--	Old	50	4½	0.8

a/ Measuring point was usually top of casing, top of pipe clamp, or top of pump base or foundation.

b/ Method of lift: T, turbine; Cf, centrifugal; C, cylinder; G, gasoline, oil or butane; Ng, natural gas; E, electric; O, diesel; W, windmill; H, hand; number indicates horsepower.

Well	WATER LEVEL		Date of measurement	Method of lift	Use of water	Remarks
	Below land surface (ft.)	b/c				
936	98.4		Oct. 25, 1945	T, O, 45	Irr	Pump set at 130 feet, 10-inch column. Yield reported 1,000 gallons a minute.
937	109.5		Oct. 26, 1945	T, E, 30	Irr	Pump set at 130 feet, 8-inch column. See log.
938	74.7		Oct. 29, 1945	T, E, 20	Irr	Pump set at 120 feet, 7-inch column. Drawdown reported 35 feet while pumping 550 to 575 gallons a minute.
939	78.6		do.	T, E, 50	Irr	
940	60		Oct. 30, 1945	T, G, 35	Irr	Pump set at 90 feet, 8-5/8-inch column. See log.
941	52.5		Oct. 31, 1945	None	N	Supply reported insufficient for irrigation.
942	--		--	None	N	Supply reported insufficient for irrigation. Yield reported 250 gallons a minute.
943	50.8		Oct. 30, 1945	T, E, 20	Irr	Pump set at 90 feet, 8-inch column.
944	16.2		Oct. 31, 1945	--	--	Pump not installed when visited on October 31, 1945. Yield reported
945	41.4 39.4		July 24, 1940 Oct. 30, 1945	T, G, 26	Irr	Pump set 1,000 gallons a minute. Yield at 90 feet, 6-inch column. Yield reported 400 gallons a minute. "Red beds" at 98 feet. See log.
946	33		July 24, 1940	None	N	

c/ Irr, irrigation; Ind, industrial; P, public supply; D, domestic; S, stock; N, not used.

d/ Water level reported.

e/ Measured by engineers of Resettlement Administration.

Table of drillers' logs, Deaf Smith County, Texas

Thickness		Depth	Thickness		Depth
(feet)		(feet)	(feet)		(feet)
<u>Well 1, Partial log</u>			<u>Well 188</u>		
Rock Island R. R., at Glenrio, 44 miles northwest of Hereford.			J. B. Allison, 11 $\frac{1}{2}$ miles north of Hereford.		
Red sand	15	15	Soil	6	6
Red sand and clay	20	35	Caliche	20	26
Hard red clay	25	60	Hard rock	41	67
Hard red and gray rock	5	65	Dry sand	13	80
Hard red clay	40	105	Rock	30	110
Hard gray sand rock	32	137	Hard sand	50	160
Hard gray rock	5	142	Water sand	48	208
Hard red shale	15	157			
Gravel	21	178	<u>Well 193</u>		
Soft red shale	15	193	Colby Conkwright, 13 $\frac{1}{2}$ miles north of Hereford.		
Red and gray packsand	15	208	Top soil	5	5
Red and gray shale	18	226	Caliche	13	18
Gray sand, water	38	264	Yellow clay	20	38
Hard gray sand	24	288	Sandy clay	16	54
Shale and packsand	22	310	Dry sand	31	85
Hard packsand	32	342	Sandy clay	10	95
TOTAL DEPTH		344	Dry sand	14	109
			Clay	3	112
			Loose water sand	100	212
<u>Well 173</u>			<u>Well 202</u>		
R. L. Campbell, 21 $\frac{1}{2}$ miles northeast of Hereford.			E. M. Haile, 8 $\frac{1}{2}$ miles north of Hereford.		
Top soil	4	4	Surface soil	4	4
Caliche	14	18	Caliche	6	10
Brown clay	52	70	Yellow clay	30	40
Sand rock	3	73	Light-yellow clay and gravel, water	22	62
Sandy clay	7	80	Honeycomb rock	23	85
Dry sand and gravel	17	97	Soft sand	15	100
Dry sand	31	128	Packed sand	15	115
Sand rock	9	137	Coarse-grained gray sand	5	120
Honeycomb sand rock	4	141			
Loose sand	4	145			
Sand rock	31	176			
Loose sand	24	200			
Sand rock	6	206			
Loose sand	45	251			
<u>Well 187</u>			<u>Well 227</u>		
Emmett C. Smith, 11 $\frac{1}{2}$ miles north of Hereford.			C. A. Wimberly, 11 $\frac{1}{2}$ miles northeast of Hereford.		
Top soil	5	5	Surface soil	4	4
Caliche	19	24	Caliche	4	8
Clay	86	110	Packsand	79	87
Hard sand and rock	15	125	Water sand	30	117
Sand	89	214			

(Continued on next page)

Table of drillers' logs, Deaf Smith County, Texas -- Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Well 227 -- Continued</u>				<u>Well 265 -- Continued</u>			
Fine-grained red sand, water	3		120	Red packsand	50		150
Sandstone and honey-comb rock, water	66		186	Sand, clay and gravel	50		200
<u>Well 242, partial log</u>				<u>Well 283</u>			
Travis Dameron, 4½ miles northeast of Hereford.				J. T. Gilbreath, 3 miles west of Hereford.			
Surface soil	2		2	Surface soil	6		6
Pink clay	13		15	Yellow and red clay	34		40
White rock and caliche	25		40	Reddish fine-grained packsand	20		60
Light-red sand	6		46	Red coarse-grained honey- comb sandstone, water	20		80
Reddish-colored sand and honey-comb rock	44		90	Hardpan, sandy clay and yellow packsand	12		92
Clay and sandy materials	5		95	Honey-combed sandstone, water	9		101
Clay	10		105	Red sand and white rock-	19		120
Sandy clay and gravel, water	8		113	Light-red honey comb sandstone	5		125
TOTAL DEPTH			130	Yellow hardpan and pack- sand	10		135
<u>Well 246, partial log</u>				<u>Well 284</u>			
Henry Brommen, 5½ miles northeast of Hereford.				Edgar Telchik, 4½ miles northwest of Hereford.			
Sandy surface soil	3		3	Surface soil	8		8
Red sandy clay	27		30	Sandy clay	10		18
White rock and clay	15		45	Rock	16		34
Honey-comb rock	22		67	Boulders and sandy clay	23		57
Water sand	14		81	Sand and clay	4		61
Water sand and clay	22		103	Sand and gravel, water	14		75
Gravel and clay	7		110	Sand and boulders	19		94
TOTAL DEPTH			140	Clay and rock	5		99
<u>Well 265</u>				(Continued on next page)			
Reineaur Bros., 6 miles north of Hereford.							
Surface soil	6		6				
Caliche	9		15				
Light-colored yellow clay	35		50				
Light-colored clay and gravel	13		63				
Chocolate-colored honey comb rock	17		80				
Sand	20		100				

Table of drillers' logs, Deaf Smith County, Texas -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 284 -- Continued</u>		
Sand and honey-comb sandstone	43	142

<u>Well 285</u>		
Ara Lewis, 5 miles north of Hereford.		
Clay	43	43
Red sand	42	85
White caliche	20	105
Red quicksand	25	130

<u>Well 298</u>		
Wilhelm and Warren, 1 $\frac{1}{2}$ miles north of Hereford.		
Surface soil	5	5
Caliche	5	10
Yellow clay	25	35
Yellow clay and light-colored gravel	25	60
Caliche	5	65
Honey-comb sandstone	75	140

<u>Well 302</u>		
F. G. Collier, 4 miles northeast of Hereford.		
Surface soil	2	2
Red sandy clay	26	28
White rock	2	30
Clay and rock	12	42
Honey-comb rock	3	45
White honey-comb rock, water	15	60
Sandy clay	22	82
Red sand, water	15	97
Sandy clay	12	109
Clay and gravel	11	120

<u>Well 304, Partial log</u>		
O. E. Easley, 3 miles west of Hereford.		
Surface soil	4	4

	Thickness (feet)	Depth (feet)
<u>Well 304, partial log-Continued</u>		
Cream-colored clay	14	18
White rock	7	25
Soft reddish-colored sandy clay	65	90
White caliche, water	10	100
Reddish-colored honey-comb sandstone	20	120
Reddish-colored loose-packsand	30	150
TOTAL DEPTH		170

<u>Well 336</u>		
Geo. M. Clingan, 3- $\frac{3}{4}$ miles southeast of Hereford.		
Surface soil	4	4
Sandy clay	76	80
Coarse-grained sand	5	85
Honey-comb sandstone	25	110
Quicksand	20	130
Sand rock	3	133
Loose-packsand	7	140

<u>Well 391</u>		
Joe H. Reinart, 8 miles southeast of Hereford.		
Top soil	5	5
Clay	20	25
Caliche rock	10	35
Soft caliche	15	50
Dry sand	40	90
Water sand	60	150
Packsand and clay	8	158
Red clay	2	160

<u>Well 399</u>		
J. W. Dickerson, 6 miles southeast of Hereford.		
Soil	3	3
Caliche	3	6
Clay	34	40
Sand rock	20	60
White chalky rock	10	70
Sand	20	90

(Continued on next page)

Table of drillers' logs, Deaf Smith County, Texas -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 399 -- Continued</u>		
Water sand	35	125
Hard sand rock	8	133
Water sand	21	154

<u>Well 426, Partial log</u>		
C. L. Syndicate, 31 miles west of Hereford.		
Sandy shale, seepwater	30	30
Gumbo	55	85
Red beds	149	234
Green shale	2	236
Light-brown shale	62	298
Red beds	92	390
Green shale, water	10	400
Red beds	85	485
Brown shale	45	530
Lime shells	5	535
Red beds	5	540
Light-brown shale	35	575
Sand, salt water	33	608
Red beds	7	615
White slate	15	630
Lime shells	3	633
Brown shale	47	680
Red beds	5	685
Red and blue caving materials	30	715
Shells	4	719
Red beds	56	775
Dark-brown shale	30	805
Light-brown shale	73	878
Sand, hole full salt water	22	900
Light-colored shale	18	918
Brown shale	8	926
Sand, soft water	14	940
Coarse-grained sand	5	945
Sand	5	950
Soft-packsand	54	1004
Green shale	9	1013
Hard sand	5	1018
Red shale	66	1024
Hard sand	7	1031
Red shale	3	1034
Brown sand	19	1053
Soft sand	7	1060
Hard sand	3	1063

	Thickness (feet)	Depth (feet)
<u>Well 426 -- Continued</u>		
Red beds, caving	37	1100
Red shale and shells	55	1155
Blue sandy shale	10	1165
Hard lime	10	1175
Sandy shale	25	1200
Hard packsand	24	1224
Brown sand, shale and shells	47	1271
Hard lime	6	1277
Blue sticky shale	3	1280
Pink shale	15	1295
Red gumbo and bentonite	25	1320
Gypsum, bentonite and red rock	35	1355
Red shale and bentonite	23	1378
Hard packsand	14	1392
Soft packsand	10	1402
Sand	58	1460
Red sticky gumbo and bentonite	10	1470
Blue shale	2	1472
Hard sandy lime	28	1500
Dolomite	5	1505
Salt and gypsum	60	1565
TOTAL DEPTH		3735

<u>Well 484</u>		
Fred A. Inman, 4-3/4 miles west of Hereford.		
Top soil	4	4
Clay	21	25
Clay and caliche	25	50
Caliche and gravel	15	65
White sand, tight	25	90
Loose white sand	10	100
White packsand	10	110
Sand, chocolate color	10	120
Pack sand, reddish color	20	140

<u>Well 527</u>		
Fred S. Barrett, 9 1/2 miles southwest of Hereford.		
Soil	4	4
Yellow clay	36	40
Sandy clay and gravel	20	60

(Continued on next page)

Table of drillers' logs, Deaf Smith County, Texas -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 527 -- Continued</u>		
Dry sand	48	108
Water sand	17	125
Sandy clay	10	135
Water sand	25	160
Clay	20	180

Well 528

Fred S. Barrett, 9-1/4 miles southwest of Hereford.

Soil	4	4
Yellow clay	36	40
Sand and clay	20	60
Dry sand	48	108
Yellow sand, little water	7	115
Red, honey-comb sand water	10	125
White coarse sand, water	40	165
Sand and clay	15	180
White sand	8	188
Hard sand rock, water	2	190

Well 531

Ky. Lawrence, 6-3/4 miles southwest of Hereford.

Soil	4	4
Caliche	26	30
Dry sand	16	46
Hard sand	63	109
Sand	11	120
Clay	10	130
Sand	70	200
Clay	3	203

Well 533

A. E. Acton, 7-1/4 miles southwest of Hereford.

Soil	4	4
Caliche	3	7
Yellow clay	33	40

	Thickness (feet)	Depth (feet)
<u>Well 533 -- Continued</u>		
Sandy clay and gravel	20	60
Dry sand	20	80
Sand	10	90
Water sand	30	120
Sandy clay	15	135
Water sand	41	176
Hard sand rock	3	179

Well 534

Sam Wilson, 6-3/4 miles southwest of Hereford.

Soil	3	3
Caliche	37	40
Tough clay	40	80
Fine-grained sand	75	155
Packsand	10	165
Water sand	10	175
Clay	5	180

Well 547

Paul Rudd, 11 1/2 miles west of Hereford.

Top soil	4	4
Caliche	6	10
Sandy clay	20	30
Dry sand	69	99
Water sand	21	120
Rock	12	132
Water sand	46	178
White sandy caliche and clay	5	183
Water sand	17	200

Well 563

Mrs. Byrdie Wilkinson, 9 miles northwest of Hereford.

Soil	4	4
Clay and caliche	21	25
Caliche	10	35
Dry sand	75	110
Water sand	70	180
Sand rock	5	185
Water sand	15	200

Table of drillers' logs, Deaf Smith County, Texas -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 567</u>		
E. L. Hessner, 8 $\frac{1}{2}$ miles west of Hereford.		
Top soil	3	3
Caliche	9	12
Red clay	21	33
Soft rock	14	47
Sand and rock	18	65
Clay	15	80
Sand and rock	135	215

	Thickness (feet)	Depth (feet)
<u>Well 708</u>		
John R. Mayo and Walter Galley, 14 $\frac{1}{4}$ miles northeast of Hereford.		
Top soil	5	5
Caliche	13	18
Sand and clay	64	82
Water sand	118	200

	Thickness (feet)	Depth (feet)
<u>Well 715</u>		
C. J. Beckman, 16 miles northeast of Hereford.		
Soil	4	4
Caliche	4	8
Yellow clay	42	50
Caliche	20	70
Sand	15	85
Water sand	53	138
Clay	3	141
Water sand	21	162
Clay	4	166
Tough blue clay	14	180
Sandy clay	20	200

	Thickness (feet)	Depth (feet)
<u>Well 807</u>		
J. S. Maxfield, 8-1/4 miles north of Hereford.		
Soil	5	5
Caliche	15	20
Sand	20	40
Tight sand	20	60

	Thickness (feet)	Depth (feet)
<u>Well 807 -- Continued</u>		
Sand rock	4	64
Sand	146	210

	Thickness (feet)	Depth (feet)
<u>Well 813</u>		
Ernest M. May, 9-3/4 miles northeast of Hereford.		
Top soil	4	4
Dry sand	8	12
Hard caliche	28	40
Hard sand	22	62
Rock	2	64
Water sand	106	170

	Thickness (feet)	Depth (feet)
<u>Well 816</u>		
Marvin Diller, 10 $\frac{1}{3}$ miles northeast of Hereford.		
Top soil	5	5
Clay	30	35
Joint clay and rock	15	50
Hard clay	15	65
Clay and rock	10	75
Sand and shale rock	20	95
Sand	15	110
Sand rock and sand	15	125
Sand	45	170
Sand and gravel	33	203
Red clay		203

	Thickness (feet)	Depth (feet)
<u>Well 818</u>		
J. L. Click, 9 miles northeast of Hereford.		
Top soil	6	6
Caliche	8	14
Clay	12	26
Sand	16	42
Rock	18	60
Soft shale	14	74
Sand	28	102
Shell rock	18	120
Sand	30	150
Clay	26	176

(Continued on next page)

Table of drillers' logs, Deaf Smith County, Texas -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 818 -- Continued</u>		
Hard sand	14	190
Gravel	18	208

<u>Well 821</u>		
H. H. Miller, 11 miles northeast of Hereford		
Top soil	4	4
Caliche	16	20
Sand	20	40
Hard sand	30	70
Water sand	50	120
Coarse water sand	30	150
Fine-grained sand	25	175

<u>Well 834</u>		
George Suggs, 10 miles northeast of Hereford.		
Soil	4	4
Caliche	14	18
Hard rock	52	70
Soft sand	50	120
Tight sand	78	198
Blue clay	2	200

<u>Well 858</u>		
D. W. Wallace, 5-3/4 miles north of Hereford.		
Soil	5	5
Caliche	35	40
Hard sand and caliche	20	60
Tight sand	175	235
Packsand and clay	37	272

<u>Well 860</u>		
W. M. Mornell, 6-1/4 miles north of Hereford.		
Soil	4	4
Yellow clay	46	50

	Thickness (feet)	Depth (feet)
<u>Well 860 -- Continued</u>		
Caliche	10	60
Sand	8	68
Water sand	32	100
Sand and clay	15	115
Red quicksand	13	128
Coarse white water sand	18	146
Clay	3	149

<u>Well 863</u>		
Mrs. Janie Beardon, 8 miles north of Hereford.		
Soil	4	4
Clay	74	78
Honey-comb rock and sand	56	134
Sandstone	6	140
Sand and honey-comb rock	44	184
White sandy clay	2	186

<u>Well 887</u>		
O. E. Easley, 3 miles west of Hereford.		
Top soil	3	3
Caliche	15	18
Lime rock	10	28
Dry sand and sand rock	52	80
Water sand	15	95
Sandy clay and rock	35	130
Water sand and sand rock	50	180
Hard rock	10	190

<u>Well 888</u>		
Walter Seed, 2 1/4 miles west of Hereford.		
Top soil	5	5
Sand and caliche	50	55
Sand rock	13	68
Water sand	137	205

Table of drillers' logs, Deaf Smith County, Texas -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 909</u>		
Joe Kendall, 3½ miles southwest of Hereford.		
Top soil	5	5
Caliche	15	20
Dry sand rock	20	40
Red shale	10	50
Coarse sand	20	70
Coarse sand and shale	30	100
Fine-grained sand	35	135
Rock	5	140
Sand	34	174

	Thickness (feet)	Depth (feet)
<u>Well 912</u>		
E. L. Hessmer, 5 miles south of Hereford.		
Top soil	6	6
Caliche	14	20
Clay	8	28
Shale	8	36
Sand	12	48
Shale	10	58
Clay	8	66
Shale	12	78
Fine-grained sand	32	110
Sand	95	205

	Thickness (feet)	Depth (feet)
<u>Well 916</u>		
Conrad P. Urbanczyk, 4 miles south of Hereford.		
Soil	5	5
Caliche	70	75
Rock	2	77
Sand	83	160

	Thickness (feet)	Depth (feet)
<u>Well 931</u>		
E. A. Albracht, 3-1/4 miles east of Hereford.		
Soil	4	4
Caliche	12	16
Rock	4	20
Hard sand	27	47
Water sand	133	180

	Thickness (feet)	Depth (feet)
<u>Well 937</u>		
G. W. Newsom, 5½ miles southeast of Hereford.		
Soil	4	4
Caliche	24	28
Red clay	37	65
Yellow clay	16	81
Red sand	17	98
Water sand	47	145
Quicksand	13	158
Water sand	7	165
Yellow clay	7	172
Water sand	13	185

	Thickness (feet)	Depth (feet)
<u>Well 940</u>		
W. J. Albracht, 4-3/4 miles east of Hereford.		
Top soil	4	4
Caliche and sand	54	58
Water sand	60	118
Red clay	54	172
Hard sand	2	174
Red clay	1	175

	Thickness (feet)	Depth (feet)
<u>Well 945</u>		
H. B. Fain, 13 miles east of Hereford.		
No record	54	54
Gray sand and gravel	12	66
Clay and shale	2	68
Water sand	30	98
Red clay	2	100
Water sand	10	110
Rock	1	111
Sand and gravel	3	114
Rock	2	116
Sand and gravel	16	132
Rock	1	133
Sand and gravel	8	141
Shale and clay	59	200

Water levels, Deaf Smith County, Texas

Water levels in observation wells in Deaf Smith County, in feet below measuring point.

(Owner, distance and direction of well from Hereford and height of measuring point above land surface.)

Well 109

H. W. Wilson, 21 miles north of Hereford; one foot above land surface.

Jane 3, 1938	152.70
June 23, 1943	152.32
Feb. 19, 1944	152.00
Mar. 1, 1945	152.09
Feb. 22, 1946	152.30

Well 113

A. S. Higgins, 12 $\frac{1}{2}$ miles north of Hereford; 0.8 foot above land surface.

Nov. 9, 1937	99.03
Dec. 12	99.02
Mar. 12, 1938	98.94
Mar. 29	98.96
May 27	98.98
Oct. 20	98.83
Dec. 14	98.82
Mar. 20, 1939	98.78
Sept. 13	98.67
Dec. 6	98.65
Mar. 20, 1940	98.73
Nov. 8	98.83
Jan. 28, 1941	99.01
Mar. 6	99.05
Feb. 7, 1942	99.22
Aug. 4	98.97
Dec. 1	98.94
Feb. 10, 1943	99.04
Feb. 19, 1944	100.22
Mar. 1, 1945	101.12
Feb. 22, 1946	102.20

Well 130

Deaf Smith County School, 21 miles north of Hereford; at land surface.

June 3, 1938	130.00
June 23, 1943	129.54
Feb. 19, 1944	129.48
Mar. 1, 1945	129.44
Feb. 22, 1946	129.45

Well 146

Ward Public School, 10 miles north of Hereford, 0.3 foot above land surface.

Nov. 26, 1937	117.40
July 5, 1938	117.81
June 17, 1943	117.60
Feb. 19, 1944	117.82
Mar. 1, 1945	117.76
Feb. 23, 1946	118.00

Well 150

A. S. Higgins, 10 $\frac{1}{2}$ miles north of Hereford; 0.6 foot above land surface.

May 27, 1938	96.69
July 14	96.78
Oct. 20	96.90
Dec. 14	96.72
Mar. 20, 1939	96.47
June 28	96.33
Sept. 13	96.51
Dec. 5	96.63
Mar. 20, 1940	96.84
Nov. 8	98.29
Jan. 28, 1941	98.37
Mar. 6	98.33
July 26	98.11
Dec. 23	97.72
Feb. 6, 1942	97.54
Aug. 4	97.36
Dec. 1	97.42
Feb. 10, 1943	97.44
Feb. 19, 1944	98.44
Feb. 23, 1946	99.30

Well 205

J. L. McGee, 9 $\frac{1}{2}$ miles north of Hereford; 1.8 feet above land surface.

Nov. 9, 1937	76.02
May 27, 1938	81.35
Sept. 15	77.72
Nov. 25	76.28
Mar. 6, 1941	81.07

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 205 -- Continued

Dec. 23, 1941	81.72
Feb. 7, 1942	80.66
Dec. 1	80.16
Feb. 10, 1943	79.63
Feb. 19, 1944	81.86
Mar. 1, 1945	83.70
Dec. 11	85.50
Feb. 23, 1946	87.70

Well 212 -- Continued

Mar. 6, 1941	75.56
Feb. 9, 1942	72.94
Dec. 1	72.03
Feb. 9, 1943	72.10
Feb. 19, 1944	72.73
Mar. 1, 1945	71.27
Dec. 14	75.40
Feb. 22, 1946	74.45

Well 207

Chas. B. Miles, 9 miles northeast of Hereford; 0.4 foot above land surface.

June 18, 1936	54.11
May 18, 1937	58.68
Aug. 27	55.65
Nov. 12	54.64
Mar. 12, 1938	54.38
Mar. 29	54.42
May 27	55.40
Aug. 12	55.21
Sept. 15	55.36
Nov. 25	55.01
Mar. 20, 1939	54.53
June 28	55.27
Sept. 13	57.15
Dec. 5	55.13
Mar. 19, 1940	54.97
Nov. 8	56.06
Mar. 6, 1941	55.91
Feb. 19, 1944	55.76
Mar. 1, 1945	55.80
Feb. 22, 1946	56.05

Well 216

C. C. Steward, 13 miles northeast of Hereford; 2 feet above land surface.

Jan. 15, 1937	71.90
Sept. 17	70.20
Mar. 12, 1938	68.18
May 27	71.72
Dec. 14, 1938	68.49
Sept. 13, 1939	70.13
Dec. 6	68.73
Nov. 8, 1940	71.62
Jan. 29, 1941	70.00
Mar. 6	69.88
Feb. 9, 1942	68.65
Dec. 1	68.68
Feb. 9, 1943	68.53
Feb. 19, 1944	69.61
Mar. 1, 1945	69.91
Dec. 13	70.64
Feb. 22, 1946	70.40

Well 217

Leslie L. Neal, 13 miles northeast of Hereford; 1 foot above land surface.

May --, 1936	84.94
May 18, 1937	92.75
June 24	88.86
Sept. 17	94.06
Dec. 4	105.35
Feb. 26, 1938	95.60
Mar. 11	93.32
Mar. 28	91.77
May 26	94.15
June 10	92.28
June 25	91.24
Sept. 14	96.80
Nov. 25	92.30
Mar. 20, 1939	88.87
June 28	92.10
Dec. 6	93.65

Well 212

Alfred May, 12 miles northeast of Hereford; 1 foot above land surface.

Apr. 22, 1936	71.41
May 30	72.77
June 23	71.56
Nov. 28, 1937	71.26
Mar. 12, 1938	72.47
May 27	76.29
Sept. 15	72.32
Nov. 25	72.07
Mar. 20, 1939	71.68
June 28	75.71
Dec. 6	75.60
Nov. 8, 1940	81.73
Jan. 29, 1941	76.19

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 217 -- Continued

Mar. 20, 1940	91.61
Jan. 14, 1941	95.21
Mar. 6	93.01
Dec. 23	89.17
Feb. 9, 1942	88.91
Dec. 1	88.78
Feb. 9, 1943	88.32
Feb. 19, 1944	89.77
Mar. 1, 1945	89.15
Feb. 22, 1946	90.55

Well 220 -- Continued

Mar. 19, 1940	85.66
Jan. 14, 1941	90.47
Mar. 6	89.08
Feb. 17, 1942	86.10
Dec. 1	87.27
Feb. 19, 1944	90.18
Mar. 1, 1945	89.26
Dec. 13	91.70
Feb. 22, 1946	90.80

Well 219

J. E. Manz, 14 miles northeast of Hereford; 2 feet above land surface.

Nov. 12, 1937	79.62
Mar. 29, 1938	75.62
May 27	77.53
Oct. 20	76.37
Nov. 25	76.20
Mar. 20, 1939	75.54
Sept. 13	83.52
Mar. 20, 1940	76.83
Nov. 8	79.88
Jan. 29, 1941	77.78
Mar. 6	77.54
Dec. 23	77.23
Feb. 9, 1942	77.01
Dec. 1	77.16
Feb. 9, 1943	76.89
Feb. 19, 1944	77.74
Feb. 22, 1946	78.57

Well 224

A. T. Frye, 10 miles northeast of Hereford; 3.2 feet above land surface.

Aug. 27, 1937	58.32
Sept. 17	58.16
Feb. 26, 1938	59.04
Mar. 11	58.59
Mar. 28	58.78
May 26	60.02
June 25	58.82
Mar. 20, 1939	58.28
June 28	61.07
Sept. 13	58.28
Dec. 6	57.68
Nov. 8, 1940	57.83
Jan. 29, 1941	57.82
Mar. 6	57.86
Dec. 23	57.89
Feb. 9, 1942	57.76
Feb. 9, 1943	57.89
Feb. 17, 1944	61.74
Feb. 22, 1946	61.05

Well 220

C. T. Wimberly, 11½ miles northeast of Hereford; 1.5 feet above land surface.

Aug. 27, 1937	85.38
Sept. 17	85.26
Jan. 18, 1938	88.44
Feb. 26	86.87
Mar. 11	86.43
Mar. 28	85.99
May 26	89.63
June 10	88.12
June 25	87.49
Sept. 14	86.91
Dec. 15	85.17
Mar. 20, 1939	84.58
Dec. 6	87.45

Well 226

Dr. J. V. McCallister, 9 miles northeast of Hereford; 0.5 foot above land surface

Apr. 20, 1936	53.7
May 30	51.89
June 11	50.28
June 19	49.77
June 24	49.73
Mar. 12, 1938	49.81
Mar. 29	49.75
May 26	50.82
June 25	49.79
Oct. 20	51.70
June 28, 1939	51.33
Mar. 19, 1940	51.13

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 226 -- Continued

Jan. 29, 1941	53.53
Mar. 6	55.52
Dec. 23	50.65
Feb. 17, 1942	50.14
Dec. 1	49.52
Feb. 9, 1943	49.07
Feb. 19, 1944	50.30
Nov. 30, 1945	53.05
Feb. 22, 1946	51.88

Well 230

E. C. Reinauer, 7 $\frac{1}{2}$ miles northeast of Hereford; 2.8 feet above land surface.

June 11, 1936	43.3
June 23	43.24
Aug. 28, 1937	45.08
Mar. 29, 1938	45.27
June 25	48.79
Sept. 14	47.22
Dec. 10	46.08
Mar. 21, 1939	45.21
June 28	47.92
Sept. 13	49.61
Dec. 6	48.49
Mar. 19, 1940	47.49
Nov. 7	50.49
Jan. 29, 1941	49.98
Mar. 6	49.64
Feb. 17, 1942	47.23
Dec. 1	46.60
Feb. 9, 1943	46.20
Feb. 18, 1944	46.66
Mar. 1, 1945	46.54
Nov. 30	48.12
Feb. 21, 1946	47.57

Well 234

L. A. Smith, 8 miles northeast of Hereford; 1 foot above land surface.

June 24, 1937	50.18
Aug. 27	51.18
Sept. 17	51.31
Dec. 4	51.26
Jan. 18, 1938	51.16
Feb. 26	51.22
Mar. 11	51.26
Mar. 28	51.24
Apr. 16	51.33
May 26	51.48

Well 234 -- Continued

June 10, 1938	51.67
June 25	51.63
Sept. 14	52.02
Oct. 20	50.78
Nov. 25	51.17
Dec. 10	51.28
Mar. 20, 1939	51.23
June 28	51.70
Sept. 13	52.18
Nov. 8, 1940	53.04
Mar. 6, 1941	52.88
Feb. 17, 1942	48.08
Feb. 9, 1943	49.95
Feb. 17, 1944	52.64
Feb. 22, 1946	53.40

Well 235

L. A. Smith, 7 miles northeast of Hereford; 2 feet above land surface.

May 30, 1936	54.60
June 11	53.37
June 24	53.36
May 18, 1937	57.25
Nov. 11	52.91
Jan. 18, 1938	52.70
Mar. 11	52.68
Mar. 28	52.62
May 26	53.76
June 25	56.16
Nov. 25	53.38
Mar. 21, 1939	53.12
June 28	53.85
Sept. 13	56.00
Dec. 6	53.96
Mar. 19, 1940	53.74
Nov. 7	55.88
Jan. 29, 1941	55.15
Mar. 6	54.55
Dec. 23	50.61
Feb. 9, 1942	51.30
Dec. 1	52.11
Feb. 9, 1943	52.08
Feb. 17, 1944	53.59
Mar. 1, 1945	53.86
Feb. 21, 1946	54.20

Well 236

B. A. Donelson, 6 $\frac{1}{2}$ miles northeast of Hereford; 0.3 foot above land surface.
(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 236 -- Continued

June 24, 1937	46.70
Aug. 18	47.07
Sept. 17	47.18
Dec. 4	47.06
Jan. 18, 1938	47.04
Feb. 26	47.15
Mar. 11	47.19
Mar. 29	47.21
May 26	47.38
June 25	47.44
Sept. 14	47.69
Dec. 10	47.61
Mar. 21, 1939	47.58
June 28	47.82
Sept. 13	48.15
Dec. 5	48.13
Mar. 19, 1940	48.14
July 24	48.68
Nov. 7	49.37
Jan. 14, 1941	49.26
Mar. 6	49.01
Dec. 23	49.05
Feb. 17, 1942	47.31
Feb. 9, 1943	47.15
Feb. 18, 1944	48.44
Mar. 1, 1945	49.67
Feb. 21, 1946	50.30

Well 237

B. A. Donelson, 7 miles northeast of Hereford; 2 feet above land surface.

Nov. 15, 1934	42.72
May 10, 1936	42.46
June 11	42.20
Mar. 14, 1937	44.04
Nov. 27	45.39
Feb. 26, 1938	45.28
Mar. 11	44.22
Mar. 29	44.16
May 26	44.32
June 25	45.61
Nov. 25	44.67
Mar. 21, 1939	44.10
June 28	45.71
Mar. 19, 1940	45.16
Nov. 7	48.91
Jan. 29, 1941	46.80
Mar. 6	46.77
Dec. 23	45.83
Feb. 17, 1942	45.59
Dec. 1	45.32

Well 237 -- Continued

Feb. 9, 1943	44.80
Feb. 18, 1944	45.03
Mar. 1, 1945	45.19
Nov. 30	46.84
Feb. 21, 1946	46.45

Well 241

J. K. Estes, 5 $\frac{1}{2}$ miles northeast of Hereford; at land surface.

Nov. 10, 1937	47.25
Dec. 4	47.14
Jan. 18, 1938	47.15
Feb. 26	47.29
Mar. 11	47.25
Mar. 28	47.08
May 26	47.19
June 25	47.36
Oct. 20	47.22
Dec. 10	47.17
Mar. 21, 1939	47.20
Sept. 13	47.50
Dec. 6	47.51
Mar. 19, 1940	47.52
Nov. 7	48.46
Jan. 29, 1941	48.15
Mar. 6	48.19
Feb. 17, 1942	47.85
Dec. 1	47.81
Feb. 9, 1943	47.77
Feb. 18, 1944	48.26
Mar. 1, 1945	48.51
Nov. 30	49.78
Feb. 21, 1946	49.67

Well 242

Travis Dameron, 4 $\frac{1}{2}$ miles northeast of Hereford; 4 feet above land surface.

Nov. 1, 1937	50.56
Dec. 4	50.49
Feb. 26, 1938	50.39
Mar. 11	50.39
Mar. 28	50.46
May 26	50.51
June 10	50.52
June 25	50.55
June 28, 1939	50.58
Sept. 13	50.60
Dec. 5	50.55

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 242 -- Continued

Mar. 19, 1940	50.75
Jan. 29, 1941	52.13
Mar. 6	52.18
July 26	52.20
Feb. 17, 1942	53.76
Feb. 9, 1943	51.93
Feb. 18, 1944	53.27
Nov. 29	54.37
Feb. 23, 1946	54.35

Well 245

E. F. Plunk, 5 $\frac{1}{2}$ miles northeast of Hereford; 0.5 foot above land surface.

Nov. 15, 1934	43.75
May 8, 1936	43.17
Dec. 17	44.38
Mar. 14, 1937	44.53
May 18	44.19
June 24	44.25
Aug. 28	44.27
Nov. 8	44.54
Dec. 11	44.58
Feb. 26, 1938	44.49
Mar. 11	44.67
Mar. 28	44.47
Apr. 16	44.43
May 26	44.56
June 10	44.48
June 25	44.53
Aug. 12	44.32
Sept. 14	44.42
Oct. 20	44.30
Nov. 25	44.38
Mar. 21, 1939	44.08
June 28	44.41
Sept. 13	44.54
Dec. 5	44.76
Mar. 19, 1940	44.73
Nov. 7	56.39
Jan. 29, 1941	46.78
Mar. 6	47.50
July 20	46.75
Dec. 23	47.10
Feb. 17, 1942	46.10
July 3	45.92
Nov. 24	45.77
Feb. 9, 1943	45.54
Feb. 18, 1944	46.82
Mar. 1, 1945	47.12
Nov. 29	52.72
Feb. 23, 1946	50.18

Well 247

R. R. Lindsey, 7 miles northeast of Hereford; 0.4 foot above land surface.

Aug. 27, 1937	20.83
Sept. 15	21.19
Nov. 10	21.81
Mar. 12, 1938	22.26
Mar. 29	22.31
May 27	21.96
July 14	22.26
Sept. 15	22.68
Oct. 20	21.93
Dec. 14	22.23
Mar. 20, 1939	22.57
July 28	22.32
Dec. 5	23.65
Mar. 19, 1940	23.76
Jan. 29, 1941	24.49
Mar. 6	24.52
Dec. 23	19.65
Feb. 7, 1942	20.22
July 3	21.72
Nov. 24	22.60
Feb. 9, 1943	22.90
Feb. 19, 1944	24.12
Mar. 1, 1945	24.94
Feb. 22, 1946	25.50

Well 251

R. R. Lindsey, 6 miles north of Hereford at land surface.

May 29, 1936	50.04
June 1	51.25
June 18	51.24
May 18, 1937	53.20
June 24	50.50
Aug. 27	61.85
Mar. 12, 1938	48.33
Mar. 29	60.10
Apr. 16	48.91
May 27	50.98
Oct. 20	49.24
Dec. 9	48.63
Mar. 20, 1939	48.31
June 28	49.11
Sept. 13	59.58
Dec. 5	58.60
Mar. 19, 1940	49.86
Nov. 8	53.19
Jan. 29, 1941	51.93
Mar. 6	51.86

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 261 -- Continued

Well 251 -- Continued

Dec. 23, 1941	51.09
July 7, 1942	50.35
Dec. 1	51.00
Feb. 10, 1943	51.28
Feb. 19, 1944	53.96
Mar. 1, 1945	53.50
Feb. 23, 1946	58.83

Well 258

J. Roy Davis, 3 miles north of Hereford;
1.5 feet above land surface.

Apr. 24, 1936	55.49
May 17, 1937	58.28
June 25	55.79
Oct. 29	60.12
Dec. 11	55.96
Mar. 11, 1938	54.33
Mar. 29	54.27
May 27	56.74
June 25	57.81
Dec. 14	54.32
Mar. 21, 1939	53.77
June 27	54.51
Sept. 13	59.59
Dec. 5	55.40
Mar. 19, 1940	55.68
Nov. 8	57.97
Jan. 28, 1941	57.83
Mar. 6	57.79
Feb. 7, 1942	56.30
Dec. 1	57.25
Feb. 10, 1943	57.08
Feb. 18, 1944	59.28
Mar. 1, 1945	59.29
Nov. 28	63.49
Feb. 23, 1946	61.19

Well 261

D. L. McDonald, 4 miles north of
Hereford; 0.5 foot above land surface.

-- --, 1914	47.0
May 29, 1936	53.58
May 17, 1937	54.75
Oct. 29	52.08
Dec. 11	51.52
Feb. 26, 1938	54.12
Mar. 12	52.71
Mar. 29	52.06
Apr. 16	51.75

June 25, 1938	53.41
Aug. 12	58.4
Sept. 15	53.43
Oct. 21	54.50
Nov. 25	53.61
Dec. 15	52.93
Mar. 21, 1939	51.02
June 27	53.78
Dec. 5	53.14
Mar. 19, 1940	52.76
Nov. 8	55.77
Jan. 28, 1941	55.45
July 26	55.60
Feb. 7, 1942	54.49
Dec. 1	54.97
Feb. 10, 1943	54.69
Feb. 18, 1944	57.76
Mar. 1, 1945	57.00
Feb. 23, 1946	58.40

Well 265

Reinauer Bros., 6 miles north of
Hereford; 0.8 foot above land surface.

May 17, 1937	66.07
June 25	64.90
Sept. 15	69.29
Nov. 24	64.61
Mar. 12, 1938	63.94
Mar. 29	63.88
Nov. 25	64.96
Mar. 21, 1939	64.08
June 27	64.71
Dec. 5	66.68
Mar. 19, 1940	65.16
Nov. 8	76.08
Jan. 28, 1941	67.75
Mar. 6	67.42
Feb. 6, 1942	66.69
Dec. 1	66.64
Feb. 10, 1943	66.70
Feb. 18, 1944	67.51
Mar. 1, 1945	68.29
Feb. 23, 1946	70.29

Well 272

J. L. Hoffman, 5 miles northwest of
Hereford; 0.9 foot above land surface.

May 29, 1936	66.58
June 17	66.46
May 17, 1937	66.97
June 25	67.09

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 272 -- Continued

Aug. 27, 1937	67.19
Oct. 30	67.43
Dec. 11	67.52
Feb. 26, 1938	67.89
Mar. 12	67.92
Mar. 29	67.99
Apr. 16	68.10
May 27	68.24
June 25	68.35
Aug. 12	68.42
Sept. 15	69.31
Oct. 21	69.24
Nov. 25	69.07
Dec. 14	68.87
Mar. 21, 1939	68.11
June 28	69.45
Sept. 13	72.75
Dec. 6	69.95
Mar. 20, 1940	70.14
Nov. 8	83.19
Jan. 29, 1941	75.21
Mar. 6	74.63
Feb. 5, 1942	75.21
Dec. 1	74.49
Feb. 19, 1944	74.89
Mar. 1, 1945	73.82
Feb. 23, 1946	75.65

Well 281

Jerry Keith, $5\frac{1}{2}$ miles northwest of Hereford; 1 foot above land surface.

Oct. 30, 1937	64.75
Mar. 29, 1938	65.71
May 26	69.86
June 25	66.83
Oct. 21	65.71
Mar. 21, 1939	65.48
June 27	66.97
Sept. 13	71.81
Mar. 20, 1940	67.44
Jan. 29, 1941	73.90
Mar. 6	70.18
Dec. 23	68.63
Feb. 18, 1944	69.04
Mar. 1, 1945	70.47
Nov. 9	75.80
Feb. 23, 1946	73.99

Well 283

J. T. Gilbreath, 3 miles west of Hereford; 1.3 feet above land surface.

May 13, 1936	61.50
May 29	61.51
Aug. 26, 1937	64.42
Nov. 24	65.09
Mar. 29, 1938	64.64
May 26	66.16
June 10	66.19
June 25	65.36
Oct. 21	65.63
Nov. 26	64.71
Dec. 16	64.30
Mar. 30, 1939	63.38
Mar. 20, 1940	64.65
Nov. 8	70.74
Jan. 29, 1941	67.10
Mar. 6	66.65
Feb. 5, 1942	65.06
Feb. 10, 1943	64.90
Feb. 18, 1944	66.86
Mar. 1, 1945	66.15
Feb. 26, 1946	66.90

Well 288

Lee Hopson, $2\frac{1}{4}$ miles north of Hereford; 2 feet above land surface.

Apr. 18, 1936	60.0
May 17, 1937	70.32
June 25	66.94
Oct. 29	67.76
Dec. 11	64.68
Feb. 26, 1938	64.07
Mar. 11	63.59
Mar. 29	63.09
Apr. 16	62.79
May 27	67.94
June 25	71.22
Aug. 12	76.68
Oct. 21	72.10
Dec. 9	64.08
Mar. 21, 1939	61.92
June 27	68.20
Mar. 19, 1940	65.00
Nov. 8	72.63
Jan. 28, 1941	69.05
Mar. 5	68.06

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 288 -- Continued

Feb. 7, 1942	65.98
Nov. 24	68.50
Feb. 10, 1943	65.94
Feb. 18, 1944	69.10
Mar. 1, 1945	68.84
Feb. 23, 1946	72.55

Well 291

Roy T. Slagle, $1\frac{1}{2}$ miles northeast of Hereford; 0.5 foot above land surface.

May 14, 1936	55.8
May 29	55.14
May 18, 1937	56.45
Aug. 28	58.06
Oct. 28	55.22
Mar. 12, 1938	54.79
Mar. 29	54.83
May 27	56.55
June 25	56.83
Sept. 15	55.69
Oct. 21	55.67
Dec. 14	55.36
Mar. 21, 1939	55.19
June 27	55.92
Sept. 13	56.60
Dec. 5	56.10
Mar. 20, 1940	55.77
Nov. 7	59.33
Jan. 28, 1941	58.09
Mar. 5	58.03
Feb. 7, 1942	57.06
Dec. 1	57.77
Feb. 9, 1943	57.20
Feb. 17, 1944	61.12
Mar. 1, 1945	59.81
Feb. 23, 1946	62.62

Well 300

Ayres Estate, 2 miles northeast of Hereford; 0.5 foot above land surface.

June 24, 1937	47.04
Aug. 18	47.25
Sept. 17	47.32
Dec. 4	47.46
Jan. 18, 1938	47.85
Feb. 26	47.64
Mar. 11	47.62
Mar. 28	47.56
Apr. 16	47.48

Well 300 -- Continued

May 26, 1938	47.71
June 10	47.80
June 25	47.84
Sept. 14	47.91
Oct. 20	48.12
Nov. 25	48.21
Dec. 10	48.27
Mar. 20, 1939	47.87
June 28	47.76
Sept. 13	48.45
Dec. 5	48.71
Mar. 19, 1940	48.62
Jan. 29, 1941	50.38
Mar. 5	50.34
Feb. 9, 1942	49.02
Dec. 1	49.32
Feb. 9, 1943	49.00
Feb. 18, 1944	50.42
Mar. 1, 1945	51.01
Feb. 23, 1946	52.35

Well 301

C. Phillips, $2\frac{3}{4}$ miles northeast of Hereford; 1.5 feet above land surface.

June 24, 1937	46.57
Aug. 18	47.18
Sept. 17	47.93
Dec. 4	47.03
Jan. 18, 1938	46.95
Feb. 26	47.42
Mar. 11	47.30
Mar. 28	47.23
Apr. 16	47.17
May 26	47.25
June 10	47.44
June 25	47.62
Sept. 14	48.05
Oct. 20	47.23
Nov. 25	47.28
Dec. 10	47.31
Mar. 20, 1939	47.28
Dec. 5	48.37
Mar. 19, 1940	48.08
Nov. 7	49.93
Jan. 14, 1941	49.59
Jan. 29	49.55
Mar. 6	49.50
July 26	49.25
Feb. 9, 1943	48.63
Mar. 1, 1945	50.27
Feb. 23, 1946	51.80

Water levels, Deaf Smith County -- Continued

Well 302

F. G. Collier, 4 miles northeast of Hereford; 4 feet above land surface.

May 12, 1936	52.9
May 30	53.34
Sept. 17, 1937	54.48
Nov. 1	53.83
Feb. 26, 1938	53.38
Mar. 11	53.32
Mar. 28	53.27
May 26	53.30
June 10	53.23
June 25	53.22
Sept. 14	53.20
Nov. 25	53.20
Mar. 21, 1939	53.12
June 28	54.86
Dec. 5	54.81
Mar. 19, 1940	54.19
Nov. 7	55.67
Jan. 14, 1941	55.10
Jan. 29	55.12
Mar. 6	55.12
Dec. 23	53.83
Feb. 9, 1942	53.51
Dec. 1	53.96
Feb. 17, 1944	54.97
Mar. 1, 1945	55.58
Nov. 29	56.28
Feb. 21, 1946	56.48

Well 305

H. M. Benefield, 3½ miles west of Hereford; 0.7 foot above land surface.

Aug. 27, 1937	79.92
Nov. 5, 1945	87.95
Feb. 26, 1946	88.54

Well 311

H. H. Boardman, 2 miles east of Hereford; 1 foot above land surface.

Nov. 15, 1934	54.75
May 18, 1936	55.76
May 29	53.59
June 10	52.04
Mar. 14, 1937	48.89
Mar. 12, 1938	51.46
Mar. 29.	50.89
Apr. 16	58.30

Well 311 -- Continued

May 27, 1938	54.14
June 27	57.73
Aug. 12	67.5
Oct. 21	53.62
Nov. 26	52.50
Dec. 15	51.72
Mar. 21, 1939	50.46
Sept. 12	59.43
Dec. 5	52.38
Mar. 19, 1940	51.70
Jan. 14, 1941	53.64
Jan. 28	53.42
Mar. 5	52.93
July 26	53.97
Feb. 6, 1942	49.63
Feb. 9, 1943	49.12
Feb. 17, 1944	50.41
Mar. 1, 1945	50.79
Feb. 28, 1946	51.30

Well 315

Wm. Woulff, 3¼ miles east of Hereford; 1 foot above land surface.

May 15, 1936	60.77
June 10	55.41
May 20, 1937	56.05
June 25	55.35
Nov. 2	56.41
Mar. 29, 1938	55.78
May 27	56.94
June 27	56.46
Nov. 26	56.19
Dec. 15	55.96
Mar. 21, 1939	55.51
June 29	56.60
Sept. 12	61.96
Dec. 5	56.19
Mar. 19, 1940	55.92
Nov. 7	60.18
Jan. 14, 1941	58.93
Jan. 28	58.81
Mar. 5	58.38
July 26	56.31
Feb. 6, 1942	56.34
Feb. 9, 1943	55.90
Feb. 17, 1944	57.53
Mar. 1, 1945	57.63
Feb. 28, 1946	57.40

Water levels, Deaf Smith County -- Continued

Well 322

Dr. G. W. Heard, $2\frac{3}{4}$ miles south of Hereford; 1 foot above land surface.

May 28, 1936	70.17
June 10	71.24
June 19	71.21
May 17, 1937	71.26
June 23	71.37
Aug. 26	71.74
Sept. 18	71.63
Oct. 27	71.68
Dec. 11	71.85
Mar. 11, 1938	72.43
Mar. 28	71.98
Apr. 16	72.07
May 26	72.12
June 10	72.15
June 25	72.19
Aug. 12	72.21
Sept. 15	72.29
Oct. 21	72.32
Nov. 25	72.47
Dec. 15	72.44
Mar. 21, 1939	72.62
June 29	74.60
Sept. 12	73.86
Dec. 5	73.19
Mar. 19, 1940	73.26
Oct. 29	75.84
Nov. 7	75.56
Jan. 14, 1941	74.83
Jan. 28	74.83
Mar. 5	74.83
July 26	74.88
Dec. 22	75.00
Feb. 6, 1942	74.84
July 3	74.36
Nov. 24	74.32
Feb. 8, 1943	74.23
Feb. 17, 1944	74.80
Mar. 1, 1945	76.95
Oct. 27	83.65
Feb. 26, 1946	80.35

Well 326

Frank J. Knebe, 5 miles south of Hereford; 2.5 feet above land surface.

Oct. 27, 1937	89.57
Dec. 11	89.72
Mar. 12, 1938	90.12
Mar. 30	90.19
May 27	90.27

Well 326 -- Continued

June 25, 1938	90.29
Aug. 12	90.47
Sept. 15	90.58
Oct. 21	90.61
Nov. 25	90.72
Dec. 15	90.58
Mar. 21, 1939	90.57
June 29	90.86
Sept. 12	91.02
Dec. 5	91.31
Mar. 19, 1940	91.76
Nov. 7	95.53
Jan. 28, 1941	94.22
Feb. 28, 1945	97.97
Oct. 13	100.36
Feb. 28, 1946	99.60

Well 331

Owen Andrews, $4\frac{1}{4}$ miles south of Hereford; 5 feet above land surface.

Aug. 26, 1937	79.95
Sept. 18	79.58
Dec. 11	81.0
Mar. 12, 1938	80.32
Mar. 30	80.22
May 27	81.68
June 25	80.92
Aug. 12	80.56
Sept. 15	80.68
Dec. 15	80.85
Mar. 21, 1939	80.47
June 29	81.72
Sept. 12	81.34
Dec. 5	81.02
Mar. 19, 1940	81.37
Nov. 7	83.57
Jan. 28, 1941	83.05
Mar. 5	82.93
Feb. 6, 1942	82.54
Nov. 27	82.13
Feb. 8, 1943	82.05
Feb. 17, 1944	83.00
Mar. 1, 1945	83.49
Feb. 28, 1946	84.78

Well 336

George M. Clingan, $3\frac{3}{4}$ miles southeast of Hereford; 1 foot above land surface.

(Continued on next page)

Water levels, Deaf Smith County -- Continued

Well 336 -- Continued

Apr. 27, 1936	88.25
May 20, 1937	88.57
June 25	86.46
Nov. 2	87.44
Mar. 12, 1938	87.52
Mar. 29	87.71
May 27	87.97
June 27	86.96
Oct. 21	87.03
Nov. 26	86.91
Mar. 21, 1939	86.80
June 29	86.86
Dec. 5	87.91
Mar. 19, 1940	87.54
Nov. 7	88.74
Jan. 14, 1941	88.51
Jan. 28	88.57
Mar. 5	88.59
Feb. 6, 1942	87.56
Feb. 9, 1943	88.03
Feb. 17, 1944	89.03
Mar. 1, 1945	90.06
Oct. 25	91.68
Feb. 28, 1946	91.80

Well 340

Felix Urbanczyk, $3\frac{3}{4}$ miles south of Hereford; 0.8 foot above land surface.

Apr. 17, 1936	73.58
May 28	73.71
June 1	73.77
May 17, 1937	74.46
May 23	74.87
Mar. 12, 1938	77.63
Mar. 30	77.25
May 27	79.14
June 25	80.05
Oct. 21	79.81
Dec. 15	78.58
Mar. 21, 1939	77.24
June 29	78.96
Sept. 12	83.45
Nov. 7, 1940	86.04
Jan. 28, 1941	80.80
Mar. 5	80.40
Feb. 6, 1942	79.52
Nov. 27	78.81
Feb. 8, 1943	78.73
Feb. 17, 1944	79.59
Mar. 2, 1946	81.75

Well 342

Edward A. Dzink, $3\frac{1}{2}$ miles south of Hereford; 1.3 feet above land surface.

Dec. 1, 1937	86.15
Mar. 29, 1938	75.31
May 26	77.46
June 10	76.47
Dec. 10	75.73
Mar. 21, 1939	75.67
Sept. 12	78.79
Dec. 5	76.53
Mar. 19, 1940	76.48
Nov. 7	82.09
Jan. 14, 1941	79.70
Mar. 5	79.09
July 26	78.50
Feb. 6, 1942	78.15
Nov. 27	77.98
Feb. 8, 1943	77.72
Feb. 17, 1944	79.62

Well 394

Paul M. Helmke, 7 miles southeast of Hereford; 3 feet above land surface.

Oct. 26, 1945	82.50
Feb. 28, 1946	81.75

Well 431

S. J. Barclay, $4\frac{1}{2}$ miles southwest of Hereford; 2.7 feet above land surface.

Mar. 26, 1937	68.89
Sept. 16	68.81
Jan. 18, 1938	68.85
Feb. 26	68.88
Mar. 11	68.92
May 26	69.19
Oct. 21	69.39
Mar. 30, 1939	69.32
June 27	69.59
Sept. 13	70.10
Dec. 6	69.98
Nov. 8, 1940	72.50
Jan. 29, 1941	72.33
Mar. 6	72.33
Feb. 5, 1942	70.96
Feb. 10, 1943	70.85
Feb. 18, 1944	72.32
Mar. 1, 1945	73.08
Feb. 26, 1946	74.15

Water levels, Deaf Smith County -- Continued

Well 486

M. L. Parker, 7 miles west of
Hereford; 0.8 foot above land surface.

Mar. 18, 1937	72.0
May 26, 1938	80.05
June 25	74.92
Mar. 30, 1939	72.32
Sept. 13	79.88
Mar. 7, 1941	77.15
Dec. 23	75.77
Feb. 7, 1942	76.07
Feb. 18, 1944	77.66
Mar. 1, 1945	77.13
Nov. 6	80.07
Feb. 26, 1946	78.98

Well 502

Carl H. Schroeder, 8 $\frac{1}{2}$ miles west of
Hereford; 1 foot above land surface.

Nov. 13, 1937	94.26
May 26	97.13
June 25	96.50
Aug. 12	96.81
Sept. 15	96.52
Oct. 21	95.98
Dec. 6	95.59
Mar. 30, 1939	96.30
June 27	96.82
Sept. 13	99.57
Dec. 6	96.70
Mar. 20, 1940	96.23
Nov. 8	103.08
Jan. 29, 1941	100.36
Mar. 7	99.82
Feb. 5, 1942	98.46
Feb. 18, 1944	100.18
Mar. 1, 1945	98.65
Feb. 26, 1946	101.75

Well 506

Alton Frazer, 9 miles west of
Hereford; 0.4 foot above land surface.

Aug. 26, 1937	74.52
Mar. 29, 1938	74.79
May 26	74.83
June 25	74.86
Sept. 15	74.78
Oct. 21	74.67
Dec. 16	74.71

Well 506 -- Continued

Mar. 30, 1939	74.70
Sept. 13	74.88
Dec. 6	75.10
Mar. 20, 1940	75.30
Jan. 29, 1941	80.48
Mar. 7	78.92
Feb. 5, 1942	76.98
Feb. 10, 1943	75.97
Feb. 18, 1944	77.60
Mar. 1, 1945	77.52
Feb. 26, 1946	78.75

Well 513

A. E. Acton, 7 $\frac{1}{2}$ miles southwest of
Hereford; 4.7 feet above land surface.

Nov. 1, 1937	79.25
Mar. 29, 1938	79.36
May 26	79.48
June 10	79.38
June 25	79.45
Aug. 12	79.43
Oct. 21	79.51
Dec. 16	79.50
Mar. 30, 1939	79.51
June 27	79.53
Sept. 13	79.60
Dec. 6	80.78
Mar. 20, 1940	79.89
Feb. 5, 1942	80.95
Feb. 10, 1943	81.80
Feb. 18, 1944	82.65
Mar. 1, 1945	83.12
Feb. 26, 1946	83.70

Well 514

B. A. Achley, 8 miles southwest of
Hereford; 1.8 feet above land surface.

Sept. 16, 1937	106.35
Mar. 29, 1938	105.42
June 10	107.79
June 25	106.88
Sept. 15	106.57
Mar. 30, 1939	105.82
June 27	106.12
Jan. 29, 1941	107.95
Mar. 7	107.69
Feb. 10, 1943	107.00
Feb. 18, 1944	107.58
Mar. 1, 1945	107.80
Feb. 26, 1946	108.10

Water levels, Deaf Smith County -- Continued

Well 919

H. Casad, $4\frac{1}{2}$ miles southeast of Hereford; 1 foot above land surface.

June 29, 1939	82.80
Dec. 5	82.70
Jan. 28, 1941	84.80
Mar. 6	83.98
Oct. 29, 1945	88.05
Feb. 28, 1946	87.50

Well 934

Liston O. Wilson, $5\frac{1}{2}$ miles southeast of Hereford; 1.5 foot above land surface.

Oct. 25, 1945	97.20
Feb. 26, 1946	95.10

Well 924

Ed Dziuk, $2\frac{1}{2}$ miles south of Hereford; 0.5 foot above land surface.

Feb. 6, 1942	68.34
Nov. 27	68.12
Feb. 17, 1944	69.36
Feb. 28, 1946	72.20

Partial analyses of water from wells in Deaf Smith County, Texas

Analyzed at The University of Texas under the direction of W. W. Hastings and E. W. Lohr, Chemists, U. S. Department of the Interior, Geological Survey, and Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry. Results are in parts per million. Well numbers correspond to numbers in table of well records.

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
1	Rock Island R.R.	344	Mar. 31, 1938	879	61	48	199	476	208	128	0.8	b/	349
5	Landergin Bros. Co.	31	June 7, 1938	739	20	17	252	586	89	52	3.3	b/	120
9	do.	35	do.	975	32	14	327	634	193	83	-	b/	139
11	do.	53	do.	-	-	-	-	-	456	130	-	32	-
13	do.	-	do.	558	30	14	173	482	64	26	-	b/	134
14	do.	7	do.	-	-	-	-	-	20	2	-	b/	-
15	do.	20	do.	404	88	14	35	275	32	26	0.7	74	279
17	L. T. Davis	199	June 13, 1938	183	42	20	5	220	a/	3	0.2	b/	178
21	J. G. Fortenberry	264	June 2, 1938	371	22	16	102	317	53	18	1.4	b/	120
30	W. F. Fisher	265	June 15, 1938	232	36	27	17	256	20	4	0.7	b/	202
35	J. P. Collier	310	June 2, 1938	316	23	26	64	281	44	14	2.4	b/	166
36	E. Kinsey	280	July 12, 1938	323	39	17	59	207	66	30	1.9	b/	165
39	M. and G. A. Hare	300	June 14, 1938	305	35	28	39	232	61	20	-	b/	202
41	H. Powell	300	do.	257	20	17	59	256	24	7	-	b/	120
42	O. H. Loyd	209	June 15, 1938	290	32	14	61	232	40	19	2.3	b/	139
43	J. Schwartz	-	July 12, 1938	291	-	-	-	293	21	14	-	b/	-
45	R. E. Wagoner	152	July 5, 1938	273	60	19	18	250	29	15	1.6	b/	227
47	First State Bank of Vega	-	July 12, 1938	294	42	32	24	256	37	21	-	b/	235
48	B. Calwell	255	June 14, 1938	332	49	27	34	232	73	20	-	b/	231
52	Texas Loan and Mortgage Co.	-	July 12, 1938	236	-	-	-	220	12	9	-	b/	-
57	J. N. Hodges	-	do.	259	-	-	-	268	14	12	-	b/	-
58	G. W. Mills	272	Sept. 15, 1937	317	46	24	49	293	29	17	-	b/	215
66	M. E. Ranson, et al	-	July 12, 1938	302	-	-	-	281	16	18	-	b/	-
67	S. F. Williams	170	do.	258	-	-	-	256	12	10	-	b/	-
68	do.	246	do.	256	48	29	14	281	a/	16	2.4	b/	238
70	-	365	do.	266	31	24	41	256	25	16	2.6	b/	175

a/ Sulfate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

Partial analyses of water from wells in Deaf Smith County -- Continued
Results are in parts per million

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
73	W. J. Williams	270	July 7, 1938	256	34	19	42	244	22	17	2.0	b/	162
75	do.	270	do.	266	-	-	-	238	30	18	-	b/	-
78	W. F. Hammons	270	June 2, 1938	281	32	19	5	262	32	14	-	b/	157
80	G. A. Welch	300	June 7, 1938	255	30	12	55	244	28	8	0.8	b/	122
85	C. L. Syndicate	240	July 8, 1938	268	26	14	61	256	22	13	-	b/	124
88	Landergin Bros. Co.	300	June 7, 1938	260	34	24	31	226	28	21	-	b/	185
101	I. Rasco	150	June 3, 1938	306	36	38	26	293	32	14	1.5	b/	249
104	Ford Public School	165	Dec. 3, 1937	301	42	41	13	281	39	18	-	b/	276
106	Kansas City Life Insurance Co.	136	June 21, 1938	325	54	37	19	329	32	13	-	b/	288
111	J. J. Currie	128	do.	290	45	34	19	293	32	10	-	b/	251
115	H. E. Floyd	170	do.	284	49	27	23	281	36	8	-	b/	231
117	C. L. Garrison	159	June 3, 1938	247	26	37	18	262	28	9	-	b/	218
119	L. C. Moore	-	do.	307	-	-	-	268	28	21	-	b/	-
120	G. L. Muse	-	do.	316	-	-	-	305	32	10	-	b/	-
124	do.	40	July 6, 1938	267	62	27	2	256	12	18	3.8	b/	267
125	R. L. Campbell	-	June 3, 1938	277	70	22	5	293	10	4	0.8	22	263
126	do.	-	do.	297	-	-	-	281	32	14	-	b/	-
132	W. Forwell	-	July 6, 1938	365	-	-	-	317	40	18	-	b/	-
133	First National Bank of Hereford	120	do.	302	52	27	25	238	28	40	2.4	b/	242
135	J. E. Hill	-	June 3, 1938	318	-	-	-	317	32	8	-	b/	-
138	B. C. Aylor	-	July 5, 1938	457	-	-	-	226	85	97	-	b/	-
139	J. F. Morris	130	July 6, 1938	265	60	29	-	262	28	10	-	b/	268
140	Byron Gist	270	Oct. 31, 1937	313	50	23	34	244	54	20	-	b/	219
143	B. C. Aylor	137	July 5, 1938	260	42	35	8	268	28	15	-	b/	252
146	Ward Public School	145	Nov. 26, 1937	264	57	13	25	250	25	15	-	b/	198
155	J. L. Woodford	160	Dec. 28, 1937	308	39	44	19	329	36	8	-	b/	277
156	H. G. Conkwright	-	July 6, 1938	308	-	-	-	275	40	17	-	b/	-
157	J. F. Hickman	-	do.	247	-	-	-	268	12	6	-	b/	-
167	Daniels Public School	110	Dec. 4, 1937	229	42	34	-	250	20	10	-	b/	246
168	Mrs. J. F. Matthews	167	Nov. 26, 1937	311	58	41	3	329	36	11	-	b/	316
201	W. R. Hastings	212	Dec. 11, 1937	291	34	23	49	287	29	15	-	b/	179

a/ Sulfate less than 10 parts per million

b/ Nitrate less than 20 parts per million.

Partial analyses of water from wells in Deaf Smith County — Continued
Results are in parts per million

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
211	Lester Galley	174	Nov. 12, 1937	349	71	44	-	336	50	16	-	b/	357
217	Leslie L. Neal	120	Sept. 17, 1937	349	49	44	20	311	68	15	-	b/	302
220	C. T. Wimberly	180	Aug. 27, 1937	349	50	40	26	329	61	10	-	b/	290
221	Dawn Public School	95	Dec. 4, 1937	340	58	46	5	244	43	65	-	b/	334
222	Santa Fe R.R.	100	Mar. 12, 1937	340	-	-	-	293	58	11	-	b/	-
262	Progressive School	65	Dec. 4, 1937	302	44	46	7	305	32	22	-	b/	299
263	D. Wallace	110	Aug. 27, 1937	305	41	44	17	281	54	18	-	b/	282
325	City of Hereford	200	Dec. 11, 1937	526	59	60	46	329	168	28	-	b/	392
337	Rieneaur Bros.	175	Oct. 27, 1937	248	47	29	7	250	32	10	-	b/	238
339	H. Casad	150	Dec. 11, 1937	332	71	27	21	342	32	13	-	b/	287
349	J. W. Alexander	120	do.	292	56	32	12	299	32	13	-	b/	270
373	Wyche School	85	do.	282	71	19	12	299	15	13	-	b/	257
384	E. F. Smith	-	July 15, 1938	290	-	-	-	232	28	24	-	b/	-
388	H. A. Halbert	193	do.	291	24	14	71	244	40	22	-	b/	119
402	O. V. Ellison	165	July 8, 1938	291	38	23	43	250	28	30	-	b/	189
406	Fred Colliet	128	do.	613	78	36	92	177	129	181	-	b/	342
412	E. W. Wilson	22	July 9, 1938	978	87	39	216	458	230	138	2.2	41	379
413	J. C. Garrett	100	do.	223	35	24	21	256	12	5	-	b/	185
422	J. N. Brown	56	do.	601	63	38	106	305	133	104	1.5	b/	313
428	Kansas City Life Insurance Co.	300	July 8, 1938	285	28	19	59	256	28	25	-	b/	147
429	Stockmen's Cattle Loan Co.	300	July 7, 1938	252	48	12	37	256	20	8	1.2	b/	167
437	C. R. Smith	272	July 8, 1938	282	25	17	64	244	28	28	-	b/	130
439	G. W. Medley	-	July 7, 1938	275	-	-	-	255	28	10	-	b/	-
444	F. A. Robbins	108	July 9, 1938	220	43	26	8	262	a/	6	1.6	b/	216
447	J. L. Smith	260	do.	5,843	184	120	1,818	104	960	2,710	0.6	b/	954
460	T. E. Seigler	-	July 7, 1938	334	-	-	-	256	48	31	-	b/	-
462	Walcott Public School	-	do.	237	34	20	32	250	20	8	-	b/	167
471	C. V. Williams	-	July 5, 1938	304	-	-	-	256	32	21	-	b/	-
473	Bruce W. Burney	190	July 13, 1938	287	32	14	62	256	32	21	-	b/	139
478	Walter Davidson	255	do.	260	40	19	35	244	32	14	-	b/	177
482	do.	265	do.	304	44	27	38	299	36	9	2.8	b/	222

a/ Sulfate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

Partial analyses of water from wells in Deaf Smith County -- Continued
 Results are in parts per million

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.) ³
489	N. V. Livesay	176	July 14, 1938	264	38	42	8	317	14	4	2.2	b/	268
490	A. C. Pierce	110	Apr. 6, 1937	-	-	-	-	-	69	62	-	b/	-
491	M. W. Stephens	73	July 7, 1938	336	49	45	24	390	12	9	5.4	b/	308
492	R. M. Gunn	200	Nov. 13, 1937	285	46	39	11	323	25	5	-	b/	274
503	West Way School	-	Dec. 3, 1937	310	46	40	16	231	47	20	-	b/	280
904	City of Hereford	160	Nov. 17, 1945	638	54	59	75	299	207	30	3.6	b/	378
905	do.	200	do.	593	49	74	47	390	150	22	2.8	b/	427

a/ Sulfate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.