

DOILEY COUNTY, TEXAS

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

TEXAS STATE BOARD OF WATER ENGINEERS

C. S. Clark, Chairman

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

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This publication contains records of 264 wells and seismograph test holes, and 17 springs, drillers' logs of 99 wells and seismograph test holes, logs of 31 test wells drilled by W. P. A. labor, and the results of chemical analyses of water from 72 wells and springs in Donley County, Texas. Most of the records were collected from February 14, to June 14, 1941 by Wayne G. Christian, project superintendent for the Work Projects Administration Project No. 17572. This project was sponsored by the Texas State Board of Water Engineers in cooperation with the United States Department of the Interior, Geological Survey. In May 1942 W. H. Alexander, Jr., of the Federal Geological Survey, collected records of 48 of the wells. The drillers' logs of the seismograph test holes given in this report were furnished by The Texas Company and the Phillips Petroleum Company.

The analyses were made by chemists employed on Work Projects Administration Project No. 17276 under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, The University of Texas, and W. W. Hastings, Chemist of the Quality of Water Division of the Federal Geological Survey. The results of all of the analyses are tabulated in parts per million and 24 of them are also given in milligram equivalents per liter for the convenience of those who prefer this form of expressing the quality of water.

The records serve as a guide to land owners, well drillers and others who need information regarding wells, the depth to ground water in different parts of the county, and the quality and chemical character of water yielded by the wells. They provide useful information for more detailed investigations that are being made in many parts of Texas by the Texas State Board of Water Engineers in cooperation with the Federal Geological Survey.

A limited number of copies of this release 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, Texas.

This release was mimeographed by employees of the Work Projects Administration Project No. 17276.

Records of wells and springs in Donley County, Texas
All wells are drilled unless otherwise stated in remarks

Well No.	Distance from Clarendon	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
1	17½ miles northwest	Mrs. I. Ingal	--	1900?	300+	4	1.3
4	16 miles northwest	Clay Imon	--	1900?	220	4½	1.0
5	16 miles north	J. W. Helm Est.	Walter Crowell	1929	360	4½	2.0
6	17 miles northeast	Humble Pipe Line Co.	--	1926	200+	6	.5
7	14½ miles northwest	Jack Roach	--	1934	90	6	--
8	14¼ miles northwest	do.	--	1933	227	5	--
9	15½ miles northwest	do.	--	1933	217	6	--
10	12½ miles northwest	do.	--	1938	125	6	--
11	11 miles northwest	do.	--	1938	85	6	2.1
12	10½ miles northwest	do.	--	1938	90	5	--
13	10 miles northwest	do.	--	1931?	90	6	--
14	10¼ miles northwest	do.	--	1938	123	6	--
15	9½ miles northwest	Fontayne Elmore	--	--	Spring	--	--
16	9¼ miles northwest	Clarendon Country Club	--	--	44	5	--
21	10 miles northwest	Fontayne Elmore	--	1925?	74	4?	.2
22	10½ miles northwest	Walter Goldston	--	--	--	--	--
23	10¼ miles northwest	L. L. Wood	--	--	110	--	--
24	10 miles northwest	do.	--	--	81	4	1.0
25	9¾ miles northwest	Jim Peggram	Bill Miller	1930	132+	4	1.6
26	9¼ miles northwest	Bill Littlefield	--	1940	88	3	1
29	9¼ miles north	do.	--	1922?	55	5	2.4
31	9½ miles north	L. L. Johnson	--	Old	--	4½	.0
32	9 miles north	Smith Bros. Co.	Tom MacCarty	1926	130	4	--
33	do.	do.	do.	1926	120+	5	--

a/ Plus (+) indicates water level is above ground.

b/ T, turbine; A, air, steam or natural gas lift; H, hand pump or bucket and rope; C, cylinder; G, gasoline; E, electric; W, windmill. Number indicates horsepower.

Chemical analyses of water from some of these wells and springs are shown in a table of analyses on pages 41 to 44

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
1	277.93	June 4, 1941	C,W	D,S	
4	203.40	May 7, 1942	C,W	D,S	
5	322.21	do.	C,W	D,S	
6	173.65	do.	C,W	D	Estimated yield 15 gallons a minute.
7	--	--	C,W	S	
8	--	--	C,W	D,S	Measured yield 6 gallons a minute.
9	--	--	C,W	S	
10	--	--	C,W	S	
11	66.77	June 11, 1941	C,W	S	
12	--	--	C,W	D,S	
13	--	--	C,W	S	
14	--	--	C,W	S	
15 ⁺		--	Flows	S	In bank and bed of creek. Measured yield 14 gallons a minute. Reported to have never failed.
16	--	--	C,W	D	
21	61.59	May 27, 1941	C,W	D,S	Measured drawdown 1.23 feet after pumping 2 gallons a minute for 30 minutes.
22	--	--	C,W	D,S	
23	--	--	C,W	N	
24	59.32	May 27, 1941	C,W	S	Measured drawdown 3.34 feet after pumping 1 gallon a minute for 31 minutes.
25	83.01	do.	C,W	D,S	Measured yield, 2 gallons a minute.
26	29.06	Mar. 4, 1941	--	--	Seismograph test hole.
29	d/--	1941	H	D,S	Bored well.
31	95.10	May 7, 1942	C,W	D,S	
32	--	--	C,W	D,Ind	Supplies cotton gin.
33	--	--	C,W	D,Ind	Do.

c/ P, public supply; D, domestic; S, stock; Ind, industrial; N, not used.
d/ Water level reported by driller or owner.

Records of wells and springs in Donley County--Continued

Well No.	Distance from Clarendon	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
34	9 miles north	A. L. Chase	--	--	120	--	--
35	8 $\frac{1}{3}$ miles north	-- School	--	--	120	5	--
36	8 $\frac{1}{2}$ miles north	Mrs. P. B. Anderson	--	1926	80	--	--
37	13 miles northwest	S. G. Evans	--	1910	200+	4 $\frac{1}{2}$	1.7
38	12 $\frac{1}{2}$ miles northwest	Grady Henson	--	Old	--	4 $\frac{1}{2}$	1.1
39	11 $\frac{1}{2}$ miles northwest	W. D. Clampitt	--	1912	--	4 $\frac{1}{2}$	1.8
40	10 $\frac{1}{4}$ miles northwest	Memphis Cotton Oil Co.	--	--	105	4 $\frac{1}{2}$	--
41	10 miles northwest	Helen Meadows	--	Old	97	4 $\frac{1}{2}$	1.5
42	9 $\frac{3}{4}$ miles northwest	Ben Lovell	Miller and Lyle	1936	140	6	--
43	8 miles northwest	Mrs. W. S. Nobles	--	Old	--	--	.3
44	8 $\frac{1}{2}$ miles northwest	-- Randall	Bill Miller	1935	140	--	1.8
45	8 $\frac{1}{2}$ miles northwest	O. Caraway	The Texas Co.	1940	165	--	--
46	do.	do.	--	--	62	4 $\frac{1}{2}$	1.5
47	6 $\frac{3}{4}$ miles northwest	Marvin Warren	Bill Miller	Old	--	4 $\frac{1}{2}$	2.2
48	5 $\frac{1}{2}$ miles northwest	M. D. Wood	do.	1906	115	4 $\frac{1}{2}$.3
49	do.	Mrs. Anna Hatchett	The Texas Co.	1940	160	--	--
50	5 miles northwest	F. I. Garrison	Bill Miller	1917	--	6	.3
51	4 miles northwest	Edwin Baley	do.	1917	72	--	.5
52	3 miles northwest	--	do.	1924	80	5	.8
53	2 $\frac{1}{4}$ miles northwest	Mrs. W. B. Stenson	--	1906	76	8	.1
54	2 $\frac{1}{2}$ miles northwest	Bennett and Sims	--	--	28	5	--
55	do.	-- Harding	--	--	30	5	.2
56	do.	Bennett and Sims	Phillips Petroleum Co.	--	162	--	--
57	2 $\frac{3}{4}$ miles northwest	do.	do.	--	200	--	--
58	do.	do.	do.	--	205	--	--
59	do.	Mrs. -- Leonard	--	--	87	4 $\frac{1}{2}$	1.5

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
34	--	--	C,G, 2	D,S	
35	--	--	C,W	P	Supplies school.
36	--	--	C,W	D,S	
37	103.40	May 5, 1942	C,W	D,S	Estimated yield 5 gallons a minute.
38	114.25	do.	C,W	D	Do.
39	112.59	do.	C,W	D,S	
40	d/90	--	C,W	D,Ind	Supplies cotton gin.
41	74.10	May 5, 1942	C,W	D	
42	d/90	1936	C,W	D,S	
43	63.00	May 5, 1942	C,W	D,S	
44	68.58	May 4, 1942	None	N	Supplied water for road construction in 1935.
45	--	--	--	--	Seismograph test hole. See log.
46	58.52	May 5, 1942	C,W	D,S	
47	65.62	do.	C,W	D	
48	59.72	do.	C,W	--	
49	--	--	--	--	Seismograph test hole. See log.
50	29.40	May 4, 1942	C,W	D,S	
51	64.35	May 5, 1942	C,W	D,S	
52	63.74	do.	C,W	D	Estimated yield 5 gallons a minute.
53	65.10	May 1, 1942	C,W	D	
54	d/27	do.	C,W	D,S	Estimated yield 5 gallons a minute.
55	24.18	do.	C,W	D,S	Do.
56	--	--	--	--	Seismograph test hole. See log.
57	--	--	--	--	Do.
58	--	--	--	--	Do.
59	47.20	May 1, 1942	C,W	--	

Records of wells and springs in Donley County--Continued

Well No.	Distance from Clarendon	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
60	3 miles northwest	--	--	--	65	5	2.0
61	4 $\frac{1}{2}$ miles north	Forrest Sawyer	--	--	Spring	--	--
64	3 $\frac{1}{4}$ miles north	Robt. Sawyer Est.	Phillips Petroleum Co.	--	322	--	--
65	3 $\frac{1}{2}$ miles northeast	do.	do.	--	240	--	--
66	4 miles northeast	do.	do.	--	130	--	--
67	4 $\frac{1}{4}$ miles northeast	Mrs. E. W. Bromley	do.	--	90+	--	--
68	4 $\frac{1}{2}$ miles northeast	do.	do.	--	172	--	--
69	4 $\frac{3}{4}$ miles northeast	L. O. Christie	do.	1938?	170	--	--
70	5 miles northeast	Mrs. S. J. Phelps	do.	--	280	--	--
71	do.	Mrs. T. K. Stone	Bill Miller	1928?	101	4 $\frac{1}{2}$	2.8
72	5 $\frac{1}{2}$ miles northeast	--	Phillips Petroleum Co.	--	120	--	--
73	6 $\frac{1}{2}$ miles northeast	W. J. Lewis	Dayton Shelton	1929	19	4	2.0
74	3 $\frac{1}{2}$ miles northeast	Mrs. E. W. Bromley	The Texas Co.	1940	135	--	--
75	3 miles northeast	Forrest Sawyer	--	--	52	4 $\frac{1}{2}$	1.9
76	2 miles northeast	do.	--	Old	--	--	1.5
77	2 $\frac{1}{2}$ miles northeast	do.	--	--	86	4 $\frac{1}{2}$	3
78	2 miles northeast	--	Phillips Petroleum Co.	--	202	--	--
79	2 $\frac{1}{4}$ miles northeast	--	do.	--	160	--	--
80	3 $\frac{1}{2}$ miles east	Mrs. J. M. Cornell	--	--	200	5 $\frac{1}{2}$	--
81	4 miles northeast	do.	--	1908?	112	4	1.1
82	4 $\frac{1}{2}$ miles northeast	W. K. Davis	--	1904	120	5	--
83	5 $\frac{1}{2}$ miles northeast	Miss Annie Bourland	--	1932	159	5	1.6
84	6 miles northeast	Rollingsford Savings Bank	The Texas Co.	1940	175	--	--
85	6 $\frac{1}{4}$ miles northeast	School District No. 4	--	--	106	4	1.6
86	7 $\frac{1}{2}$ miles east	--	Phillips Petroleum Co.	--	360	--	--
87	do.	--	do.	--	300	--	--

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
60	57.62	May 1, 1942	C,W	--	
61	+	--	Flows	S	Measured flow 18 gallons a minute.
64	--	--	--	--	Seismograph test hole. See log.
65	--	--	--	--	Do.
66	--	--	--	--	Do.
67	--	--	--	--	Do.
68	--	--	--	--	Do.
69	--	--	--	--	Do.
70	--	--	--	--	Do.
71	68.35	May 28, 1941	C,W	D,S	
72	--	--	--	--	Seismograph test hole. See log.
73	11.61	May 28, 1941	H	D	
74	--	--	--	--	Seismograph test hole. See log.
75	18.72	May 9, 1941	C,W	D,S	
76	47.85	May 9, 1942	C,W	D,S	Measured yield 5 gallons a minute.
77	75.35	May 9, 1941	C,W	N	
78	--	--	--	--	Seismograph test hole. See log.
79	--	--	--	--	Do.
80	--	--	C,W	D,S	
81	62.11	May 28, 1941	C,W	N	
82	a/65	1904	C,W	D,S	
83	46.29	May 28, 1941	C,W	D,S	
84	--	--	--	--	Seismograph test hole. See log.
85	51.88	May 28, 1941	C,W	P	Supplies Midway School.
86	--	--	--	--	Seismograph test hole. See log.
87	--	--	--	--	Do.

Records of wells and springs in Donley County--Continued

Well No.	Distance from Clarendon	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
88	7 miles east	--	Phillips Petroleum Co.	--	262	--	--
89	7 $\frac{3}{4}$ miles east	C. C. Carter	The Texas Co.	1940	150	--	--
90	4 $\frac{3}{4}$ miles east	Mrs. Lulu Allan	Phillips Petroleum Co.	--	132	--	--
91	4 $\frac{1}{4}$ miles east	Dudley Wilson	--	1908?	100	4	--
92	do.	Sunnyview School	Phillips Petroleum Co.	--	180	--	--
93	3 miles east	Mrs. L. E. Mann	do.	--	230	--	--
94	2 miles east	J. D. Jefferies	do.	--	310	--	--
95	1 $\frac{3}{4}$ miles east	do.	do.	--	200	--	--
96	$\frac{3}{4}$ mile east	Memphis Cotton Oil Co.	William Miller	1940	104	5 $\frac{1}{2}$	0
97	$\frac{1}{2}$ mile east	Fort Worth and Denver City R.R.	H. C. Brumley	1911	102	192	--
98	$\frac{1}{2}$ mile northeast	City of Clarendon	--	1929	302	24	0
99	1 mile northeast	-- Morris	--	Old	--	4 $\frac{1}{2}$	1.0
100	$\frac{1}{2}$ mile north	H. Fitzgerald	Frank Lyles	1922	98	5 $\frac{1}{2}$	--
101	$\frac{1}{4}$ mile west	City of Clarendon	-- Edmond	1927	240	8	0
102	$\frac{1}{2}$ mile northwest	W. H. Patrick	G. W. Baker	1899	143	6	--
103	1 $\frac{1}{2}$ miles southwest	W. Knorpp	The Texas Co.	1940	165	--	--
104	3 miles west	M. C. Rampy	William Miller	1910	166	6	.3
105	3 $\frac{1}{4}$ miles west	Hugh Phelps	do.	1927	190	6	0
105a	do.	--	do.	1922	180	4 $\frac{1}{2}$	1.1
106	3 $\frac{1}{2}$ miles west	W. A. Bailey	do.	1920	150	6	0
107	3 $\frac{3}{4}$ miles west	T. M. Shadle	do.	1917	205	--	.2
108	4 miles west	L. O. Christie	William Miller	1936	160	4	1.0
109	3 $\frac{3}{4}$ miles west	Civil Aeronautics Authority	do.	1940	200	--	0
110	4 $\frac{3}{4}$ miles west	W. F. Shannon	The Texas Co.	1940	167	--	--
111	7 $\frac{3}{4}$ miles west	A. L. Thornberry	do.	1940	175	--	--
112	9 $\frac{1}{2}$ miles southwest	Chas. Bairfield	do.	1940	175	--	--

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
98	--	--	--	--	Seismograph test hole. See log.
99	--	--	--	--	Do.
90	--	--	--	--	Do.
91	--	--	C,W	D,S	
92	--	--	--	--	Seismograph test hole. See log.
93	--	--	--	--	Do.
94	--	--	--	--	Do.
95	--	--	--	--	Do.
96	d/64	Sept. 1940	A	Ind	Supplies cotton gin.
97	d/62	May 1942	--	Ind	Dug well. Supplies locomotives. See log.
98	d/60	Aug. 1929	A	P,S	Known as City Well 2. Reported yield 375 gallons a minute. See log.
99	45.90	May 9, 1942	C,W	D,S	
100	--	--	A	Ind	Supplies cotton gin. See log.
101	d/60	--	A	P,S	Known as City Well 1. Reported yield 168 gallons a minute.
102	--	--	C,W	D	
103	--	--	--	--	Seismograph test hole. See log.
104	158.08	May 4, 1942	C,W	D,S	
105	170.35	do.	--	--	
105a	126.67	do.	None	N	
106	117.05	do.	C,W	D,S	
107	141.85	May 5, 1942	C,W	D,S	
108	122.97	May 4, 1942	C,W	D,S	
109B/120	--	--	--	D	Estimated yield 10 gallons a minute.
110	--	--	--	--	Seismograph test hole. See log.
111	--	--	--	--	Do.
112	--	--	--	--	Do.

Records of wells and springs in Donley County--Continued

Well No.	Distance from Clarendon	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
113	5 $\frac{3}{4}$ miles southwest	Chas. Bairfield	The Texas Co.	1940	175	--	--
114	4 $\frac{1}{2}$ miles southwest	W. Thornberry	C. B. Adams	--	190	6	1.0
115	4 miles southwest	do.	--	--	200	5	.3
116	3 $\frac{1}{2}$ miles southwest	C. D. Murphy	Phillips Petroleum Co.	--	260	--	--
117	3 miles southwest	do.	do.	--	222	--	--
118	2 $\frac{1}{2}$ miles southwest	Mrs. M. L. Knox	do.	--	210	--	--
119	1 $\frac{1}{4}$ miles southwest	A. C. Donnell	William Miller	--	125	4 $\frac{1}{2}$	--
120	2 miles southeast	Harry Blair	--	Old	--	--	.3
121	3 $\frac{1}{4}$ miles southeast	Mrs. B. W. Chamberlain	The Texas Co.	1940	175	--	--
122	3 $\frac{1}{2}$ miles south	M. S. Leaverell	--	1891	220	4	0
125	3 $\frac{3}{4}$ miles south	Mrs. J. H. Clark	--	1910	150	5	--
126	3 $\frac{1}{2}$ miles south	G. W. Kemp	--	1915	204	5	--
127	3 $\frac{1}{2}$ miles southwest	Walter Lowe	--	Old	198	4 $\frac{1}{2}$	1.0
128	do.	E. M. Ozier	The Texas Co.	1940	165	--	--
129	do.	M. Norwood	--	Old	219	--	.3
130	7 $\frac{1}{4}$ miles southwest	Mrs. C. L. Wiedman	R. F. Wiedman	--	100	3 $\frac{1}{2}$.0
131	10 $\frac{1}{2}$ miles southwest	C. Adair Est.	The Texas Co.	1941	250	--	--
132	13 $\frac{1}{4}$ miles southwest	do.	do.	1941	181	--	--
133	15 $\frac{1}{2}$ miles southwest	do.	do.	1941	200	--	--
134	8 $\frac{3}{4}$ miles southwest	do.	do.	1941	215	--	--
135	7 $\frac{1}{4}$ miles southwest	do.	do.	1941	200	--	--
136	6 $\frac{3}{4}$ miles southwest	do.	do.	1941	235	--	--
137	7 miles southwest	do.	do.	1940	205	--	--
138	9 $\frac{3}{4}$ miles south	do.	do.	1940	210	--	--
139	12 $\frac{1}{4}$ miles south	do.	do.	1940	205	--	--
140	6 $\frac{1}{2}$ miles southeast	J. C. Heathington	do.	1940	165	--	--

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
113	--	--	--	--	Seismograph test hole. See log.
114	153.96	May 4, 1942	C,W	D,S	
115	185.90	do.	C,W	D,S	
116	--	--	--	--	Seismograph test hole. See log.
117	--	--	--	--	Do.
118	--	--	--	--	Do.
119	--	--	C,W	D	
120	140.15	May 9, 1942	C,W	D,S	
121	--	--	--	--	Seismograph test hole. See log.
122	d/180	Mar. 1941	C,W	D,S	
125	--	--	C,W	S	
126	--	--	C,W	D,S	
127	190.54	May 8, 1942	C,W	S	
128	--	--	--	--	Seismograph test hole. See log.
129	187.25	May 8, 1942	C,W	D,S	
130	d/ 97.5	1940	C,W	D,S	
131	--	--	--	--	Seismograph test hole. See log.
132	--	--	--	--	Do.
133	--	--	--	--	Do.
134	--	--	--	--	Do.
135	--	--	--	--	Do.
136	--	--	--	--	Do.
137	--	--	--	--	Do.
138	--	--	--	--	Do.
139	--	--	--	--	Do.
140	--	--	--	--	Do.

Records of wells and springs in Donley County--Continued

Well No.	Distance from Clarendon	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
141	5 $\frac{1}{2}$ miles southeast	A. B. Ivey	--	1930	--	4 $\frac{1}{2}$	1.5
142	5 miles southeast	Mrs. B. W. Chamberlain	--	--	--	4 $\frac{1}{2}$	--
143	6 $\frac{1}{4}$ miles southeast	H. A. Harrison	Miller and Lyle	1925	164	3 $\frac{1}{2}$.2
144	4 $\frac{1}{4}$ miles southeast	Heckle Starks	--	--	--	4 $\frac{1}{2}$.6
145	4 $\frac{1}{2}$ miles southeast	do.	--	--	32	6	1.4
146	5 $\frac{3}{4}$ miles southeast	B. L. Jenkins, Sr.	The Texas Co.	1940	165	--	--
147	5 $\frac{1}{2}$ miles southeast	Mrs. -- Wynn	--	--	44	5	.6
148	5 $\frac{3}{4}$ miles southeast	B. J. Leathers	--	1910	160	6	--
150	6 $\frac{1}{4}$ miles southeast	Moody Kennedy	--	--	80	--	--
152	6 $\frac{1}{2}$ miles southeast	J. R. Batson	J. R. Batson	1938	80	4	--
156	7 $\frac{1}{4}$ miles southeast	Memphis Cotton Oil Co.	William Miller	1926	60	4	--
157	do.	W. L. Espey	--	--	19	5 $\frac{1}{2}$	1.9
158	do.	M. A. Wisdom	--	1924	21	4 $\frac{1}{2}$	1.3
159	do.	W. C. Newton	--	--	18	5 $\frac{1}{2}$	1.5
160	7 $\frac{1}{2}$ miles southeast	School District No. 2	--	1906	30	--	--
161	do.	Smith Bros.	--	1928	100	6	--
162	do.	do.	--	1926	80	6	--
163	8 $\frac{1}{2}$ miles southeast	B. J. Leathers	Hugh Brown	1929	100	6	1.5
164	7 $\frac{1}{2}$ miles southeast	M. A. Turner	--	1929	22	4 $\frac{1}{2}$	1.1
165	7 $\frac{3}{4}$ miles southeast	W. L. Lewis	--	--	100	5 $\frac{1}{2}$	--
169	8 $\frac{1}{4}$ miles southeast	Mrs. Laura Taylor	--	--	--	--	--
170	do.	Miss Moody Kennedy	--	--	106	4 $\frac{1}{2}$	1.3
171	do.	Odos Caraway	--	--	57	4 $\frac{1}{2}$	1.2
172	8 $\frac{3}{4}$ miles southeast	J. W. Rowland	--	1910	40	--	--
173	9 miles southeast	H. E. Watson	--	--	18	4 $\frac{1}{2}$.5
174	9 $\frac{1}{4}$ miles southeast	J. W. Rowland	--	1905	18	5	--

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
141	156.16	May 8, 1942	C,W	D,S	
142	--	--	C,W	S	
143	145.82	May 8, 1942	C,W	D,S	
144	24.13	Apr. 3, 1941	C,W	S	
145	24.40	do.	H	D,S	
146	--	--	--	--	Seismograph test hole. See log.
147	24.63	Apr. 3, 1941	H	D	
148	--	--	C,W	S	
150	--	--	C,W	S	
152	d/ 22	1938	C,W	D,S	
156	--	--	A	D,Ind	
157	11.82	May 8, 1941	H	D	
158	17.36	do.	H	D	
159	5.66	May 7, 1941	H	D	
160	d/ 18	Feb. 1941	C,E	P,S	
161	--	--	A	Ind	Supplies cotton gin.
162	--	--	C,W	D,Ind	
163	44.48	Apr. 30, 1941	C,W	D,S	
164	17.07	May 7, 1941	H	D	
165	--	--	H	D,S	
169	--	--	C,W	D,S	
170	50.10	May 7, 1941	C,W	D,S	
171	44.54	do.	H	D,S	
172	--	--	C,W	D,S	
173	13.61	May 7, 1941	None	N	
174	d/ 12	May 1941	C,W	D,S	

Records of wells and springs in Donley County--Continued

Well No.	Distance from Clarendon	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
175	8 $\frac{1}{2}$ miles southeast	D. B. Purdue	The Texas Co.	1940	165	--	--
176	8 $\frac{3}{4}$ miles southeast	J. C. Purdue	--	1917	112	--	1.5
177	12 miles southeast	Bugbee Livestock and Land Co.	The Texas Co.	1940	125	--	--
178	14 miles southeast	do.	do.	1940	150	--	--
179	13 miles south	G. E. Benson	--	1928	42	4	.2
180	6 miles northwest	H. L. Devonport	William Miller	1920	82	5	1.8
Well No.	Distance from Hedley	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
200	20 miles north	F. R. McCracken	The Texas Co.	1940	275	--	--
201	19 $\frac{3}{4}$ miles north	Will Yake	--	Old	--	4 $\frac{1}{2}$	1.4
202	19 $\frac{1}{2}$ miles north	W. J. Lewis	The Texas Co.	1940	230	--	--
203	do.	J. L. McMurtry	do.	1940	215	--	--
204	20 $\frac{1}{4}$ miles north	do.	Tom McCarty	1931	--	6	.0
205	20 miles north	--	The Texas Co.	1940	337	--	--
206	20 $\frac{3}{4}$ miles northeast	--	do.	1940	243	--	--
207	18 miles northeast	R. S. Thompson Est.	do.	1940	335	--	--
208	17 miles northeast	The Texas Co.	do.	1940	350	--	--
209	17 miles north	C. F. Weaver	--	1902	--	6	.6
210	16 $\frac{3}{4}$ miles north	W. J. Lewis	The Texas Co.	1940	250	--	--
211	17 miles north	Horman Hunt	--	1912	--	4 $\frac{1}{2}$	3.2
212	16 $\frac{3}{4}$ miles north	W. J. Lewis	The Texas Co.	1940	235	--	--
213	17 $\frac{1}{4}$ miles northwest	T. J. D'Spain	do.	1940	265	--	--
214	15 $\frac{3}{4}$ miles northwest	C. S. Carpenter	Frank Lyle	1941	120	6	1.0
215	15 miles northwest	Public School	--	--	--	6	.9
216	14 $\frac{1}{2}$ miles northwest	W. D. VanEaton Est.	The Texas Co.	1940	185	--	--

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
175	--	--	--	--	Seismograph test hole. See log.
176	98.07	May 8, 1942	C,W	D,S	
177	--	--	--	--	Seismograph test hole. See log.
178	--	--	--	--	Do.
179	36.47	May 8, 1942	C,W	S	
180	64.50	May 1, 1942	C,W	D,S	
Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
200	--	--	--	--	Seismograph test hole. See log.
201	130.55	May 6, 1942	C,W	D,S	
202	--	--	--	--	Seismograph test hole. See log.
203	--	--	--	--	Do.
204	36.87	May 6, 1942	C,W	D,S	
205	--	--	--	--	Seismograph test hole. See log.
206	--	--	--	--	Do.
207	--	--	--	--	Do.
208	--	--	--	--	Do.
209	42.54	May 6, 1942	C,W	S	
210	--	--	--	--	Seismograph test hole. See log.
211	55.72	May 6, 1942	C,W	D,S	
212	--	--	--	--	Seismograph test hole. See log.
213	--	--	--	--	Do.
214	112.38	May 6, 1942	C,W	D,S	
215	95.45	do.	C,W	P,S	
216	--	--	--	--	Seismograph test hole. See log.

Records of wells and springs in Donley County--Continued

Well No.	Distance from Hedley	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
217	13 $\frac{1}{4}$ miles northwest	W. D. Van Eaton Est.	--	1918	--	4	1.0
218	14 $\frac{1}{4}$ miles north	W. J. Lewis	The Texas Co.	1940	285	--	--
219	13 $\frac{3}{4}$ miles north	do.	do.	1940	250	--	--
220	14 $\frac{1}{4}$ miles northeast	--	do.	1940	175	--	--
221	15 $\frac{1}{4}$ miles northeast	George W. Sitter	do.	1940	247	--	--
222	13 miles northeast	L. A. Kalka	L. A. Kalka	1938	45	4 $\frac{1}{8}$.5
223	12 $\frac{1}{2}$ miles northeast	George W. Sitter	The Texas Co.	1940	180	--	--
224	11 $\frac{1}{2}$ miles northeast	W. Fowler	Tom McCarty	Old	--	--	.5
225	11 $\frac{1}{2}$ miles northeast	--	The Texas Co.	1940	280	--	--
226	11 miles north	W. J. Lewis	do.	1940	150	--	--
227	do.	do.	do.	1940	167	--	--
228	11 $\frac{1}{2}$ miles northwest	do.	do.	1941	165	--	--
229	do.	do.	do.	1940	177	--	--
230	9 miles northwest	do.	do.	1940	105	--	--
231	8 $\frac{1}{4}$ miles northwest	E. V. Quattlebaum	--	1922	100	4	--
232	do.	A. O. Hefner	--	1900	66	5	.8
233	8 miles northwest	do.	The Texas Co.	1940	155	--	--
234	7 miles northwest	W. C. Scott	Latimer and Sanders	1920	109	4 $\frac{1}{8}$	2.4
235	do.	Fairview School District No. 3	--	1915	127	4	1.0
236	6 $\frac{3}{4}$ miles north	J. H. Nance	--	1910	93	5	1.5
238	6 $\frac{1}{4}$ miles north	W. L. Lewis	Mike Harris	--	46	3 $\frac{1}{2}$	--
239	5 miles north	J. S. Hall	Hill and Latimer	1903	140	6	1.1
240	5 $\frac{1}{4}$ miles northwest	--	The Texas Co.	1940	155	--	--
242	5 miles north	Mrs. R. W. Scales	do.	1940	185	--	--
244	4 $\frac{1}{2}$ miles northeast	B. E. Harris	--	--	202	4	1.0
246	5 $\frac{1}{2}$ miles northeast	Mrs. S. D. Phelps	--	--	160	4	--

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
217	115.34	May 6, 1942	C,W	D,S	
218	--	--	--	--	Seismograph test hole. See log.
219	--	--	--	--	Do.
220	--	--	--	--	Do.
221	--	--	--	--	Do.
222	41.56	May 6, 1942	C,W	S	
223	--	--	--	--	Seismograph test hole. See log.
224	81.15	May 6, 1942	C,W	S	
225	--	--	--	--	Seismograph test hole. See log.
226	--	--	--	--	Do.
227	--	--	--	--	Do.
228	--	--	--	--	Do.
229	--	--	--	--	Do.
230	--	--	--	--	Do.
231	--	--	C,W	D,S	
232	60.83	May 28, 1941	C,W	D,S	
233	--	--	--	--	Seismograph test hole. See log.
234	86.38	May 12, 1941	C,W	D,S	
235	86.47	do.	C,W	P,S	
236	68.49	May 14, 1941	C,W	D,S	
238	--	--	C,W	D,S	
239	101.75	May 14, 1941	C,W	D,S	
240	--	--	--	--	Seismograph test hole. See log.
242	--	--	--	--	Do.
244	130.30	May 15, 1941	C,W	--	
246	d/130	1940	C,W	D,S	

Records of wells and springs in Donley County,--Continued

Well No.	Distance from Hedley	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
247	6 $\frac{1}{4}$ miles northeast	Mrs. A. J. Akers	--	--	130	4	--
248	7 miles northeast	Anna E. Bomar	--	--	153	4 $\frac{1}{2}$	1.3
249	7 $\frac{1}{2}$ miles northeast	M. D. Latimer	J. C. Latimer	1910	150	4	.9
250	8 miles north	W. J. Lewis	The Texas Co.	1940	165	--	--
252	8 $\frac{1}{2}$ miles northeast	--	do.	1940	155	--	--
253	10 miles northeast	John A. Wood	do.	1940	150	--	--
254	9 $\frac{1}{2}$ miles northeast	J. R. Calhoun	--	--	50	5 $\frac{1}{2}$.3
255	8 $\frac{1}{2}$ miles northeast	W. P. Cagle, Jr.	--	--	103	4	1.7
256	8 $\frac{1}{4}$ miles northeast	W. F. Walker	The Texas Co.	1940	260	--	--
257	do.	C. D. Walker	--	--	89	5	.5
258	7 $\frac{3}{4}$ miles northeast	J. C. Doneghy	--	1910	--	5 $\frac{1}{2}$	--
259	6 miles northeast	T. R. Moreman	The Texas Co.	1940	220	--	--
261	4 miles northeast	R. E. Darlington	--	1910	105	6	.2
262	3 $\frac{1}{4}$ miles northeast	Northwestern Life Insurance Co.	--	--	60	4	1.4
263	1 $\frac{3}{4}$ miles northeast	Mrs. S. A. McCarroll	The Texas Co.	1940	150	--	--
264	4 $\frac{1}{2}$ miles northeast	Tate Bros.	--	--	27	4	1.1
265	4 $\frac{3}{4}$ miles northeast	S. F. Laughlin	--	--	70	5 $\frac{1}{2}$.1
266	4 $\frac{1}{4}$ miles northeast	Plunk and Thompson	The Texas Co.	1940	375	--	--
267	5 $\frac{1}{2}$ miles northeast	J. F. Anthony	--	--	149	--	.2
268	6 $\frac{1}{4}$ miles northeast	L. C. Pierce	--	1930	95	--	.6
269	7 miles northeast	X. R. Hyde	The Texas Co.	1940	217	--	--
270	6 miles southeast	Carl Williamson	do.	1940	400	--	--
271	4 $\frac{1}{4}$ miles southeast	A. E. Ransom	do.	1940	315	--	--
272	2 miles southeast	Mrs. J. S. Beach	do.	1940	165	--	--
273	$\frac{1}{4}$ mile southeast	Foxhall Cotton Co.	S. W. Lamerson	--	200	4 $\frac{1}{2}$	--
274	1 $\frac{3}{4}$ miles northwest	City of Hedley	William Miller	1926	100	8	--

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
247	--	--	C,W	D,S	
248	88.38	May 16, 1941	C,W	D,S	
249	77.87	May 28, 1941	C,W	D,S	
250	--	--	--	--	Seismograph test hole. See log.
252	--	--	--	--	Do.
253	--	--	--	--	Do.
254	28.84	May 15, 1941	C,W	N	
255	80.49	do.	C,W	N	
256	--	--	--	--	Seismograph test hole. See log.
257	62.44	May 15, 1941	C,W	N	
258	--	--	C,W	D,S	
259	--	--	--	--	Seismograph test hole. See log.
261	84.66	May 15, 1941	C,W	D,S	
262	41.55	do.	None	N	
263	--	--	--	--	Seismograph test hole. See log.
264	10.06	May 15, 1941	None	N	
265	52.56	do.	None	N	
266	--	--	--	--	Seismograph test hole. See log.
267	129.01	May 15, 1941	C,W	D,S	
268	73.63	do.	C,W	D	
269	--	--	--	--	Seismograph test hole. See log.
270	--	--	--	--	Do.
271	--	--	--	--	Do.
272	--	--	--	--	Do.
273	--	--	A	Ind	Supplies cotton gin.
274	--	--	T	P,S	Reported yield 20 gallons a minute.

Records of wells and springs in Donley County--Continued

Well No.	Distance from Hedley	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
275	1 $\frac{3}{4}$ miles northwest	City of Hedley	William Miller	1926	115	6	--
276	3 miles northwest	Mrs. N. Griffin	The Texas Co.	1940	150	--	--
277	5 $\frac{1}{2}$ miles northwest	B. J. Leathers	do.	1940	145	--	--
278	5 $\frac{1}{4}$ miles southwest	J. H. Riffle	do.	1940	185	--	--
279	5 miles southwest	Mrs. S. E. Atteberry	William Miller	1915	180	10	--
280	5 $\frac{1}{4}$ miles southwest	do.	Nels Nelson	1900	80	10	--
281	7 $\frac{1}{4}$ miles southwest	Fred M. Finch	--	--	Spring	--	--
282	8 $\frac{1}{4}$ miles south	G. W. Sexaur	The Texas Co.	1940	465	--	--
283	6 miles southeast	J. D. Browder	do.	1940	205	--	--
284	5 $\frac{1}{2}$ miles south	Fred M. Finch	--	--	Spring	--	--
285	5 miles south	do.	--	--	Spring	--	--
286	6 $\frac{1}{4}$ miles south	do.	--	--	Spring	--	--
287	5 $\frac{1}{2}$ miles southwest	do.	The Texas Co.	--	217	--	--
288	5 miles southwest	do.	--	--	Spring	--	--
289	do.	do.	--	--	Spring	--	--
290	do.	do.	--	--	Spring	--	--
291	do.	do.	--	--	Spring	--	--
292	do.	do.	--	--	Spring	--	--
293	4 miles south	do.	--	--	Spring	--	--
294	3 $\frac{3}{4}$ miles south	do.	--	--	Spring	--	--
295	3 $\frac{1}{2}$ miles south	do.	--	--	Spring	--	--
296	2 $\frac{1}{2}$ miles southwest	J. G. McDougal Est.	The Texas Co.	1940	195	--	--
297	3 $\frac{3}{4}$ miles south	Fred M. Finch	--	--	Spring	--	--
298	3 $\frac{1}{2}$ miles southeast	do.	--	--	Spring	--	--
300	6 miles southeast	Marshall Maxwell	--	1925	13	36	3.0

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
275	--	--	T	P,S	Reported yield 10 gallons a minute. See log.
276	--	--	--	--	Seismograph test hole. See log.
277	--	--	--	--	Do.
278	--	--	--	--	Do.
279	--	--	C,W	D,S	
280	--	--	C,W	S	
281	--	--	--	S	
282	--	--	--	--	Seismograph test hole. See log.
283	--	--	--	--	Do.
284	--	--	--	S	
285	--	--	--	S	
286	--	--	--	S	
287	--	--	--	--	Seismograph test hole. See log.
288	--	--	--	S	Measured yield $3\frac{1}{4}$ gallons a minute.
289	--	--	--	S	
290	--	--	--	S	
291	--	--	--	S	
292	--	--	--	S	
293	--	--	--	S	
294	--	--	--	S	
295	--	--	--	S	
296	--	--	--	--	Seismograph test hole. See log.
297	--	--	--	S	
298	--	--	--	S	
300	10.93	Apr. 16, 1941	H	D,S	Dug well.

Records of wells and springs in Donley County--Continued

Well No.	Distance from Hedley	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
302	6 miles southeast	A. L. Sandridge	--	--	15	5 $\frac{1}{2}$	2.6
303	do.	State Highway Dept.	--	--	9	--	2.3
304	do.	Annie Gene McCray	The Texas Co.	1940	150	--	--
305	6 $\frac{1}{4}$ miles southeast	State Highway Dept.	--	--	Spring	--	--
306	6 $\frac{1}{2}$ miles southeast	J. D. Browder	--	--	38	--	1.3
307	8 miles southeast	W. P. Dial	The Texas Co.	1940	165	--	--
308	7 $\frac{3}{4}$ miles southeast	do.	--	--	100	6	1.2
310	do.	do.	--	1915	76	4 $\frac{1}{2}$	1.8
311	8 $\frac{3}{4}$ miles southeast	do.	--	--	174	4 $\frac{1}{2}$	2.2
313	9 $\frac{1}{4}$ miles southeast	Mrs. A. Hampton	The Texas Co.	1940	300	--	--

a/ Plus (+) indicates water level is above ground.

b/ T, turbine; A, air, steam or natural gas lift; H, hand pump or bucket and rope; C, cylinder; G, gasoline; E, electric; W, windmill. Number indicates horsepower.

Well No.	Water level		Method of lift b/	Use of water c/	Remarks
	Below measuring point (ft.) a/	Date of measurement			
302	10.71	Apr. 16, 1941	H	D	
303	2.72	Apr. 17, 1941	H	P,S	Dug well.
304	--	--	--	--	Seismograph test hole. See log.
305	--	--	--	--	
306	34.50	Apr. 17, 1941	H	N	Dug well.
307	--	--	--	--	Seismograph test hole. See log.
308	85.76	Apr. 17, 1941	C,W	S	
310	70.30	do.	C,W	D,S	
311	127.95	do.	C,W	S	
313	--	--	--	--	Seismograph test hole. See log.

c/ P, public supply; D, domestic; S, stock; Ind, industrial; N, not used.
d/ Water level reported by driller or owner.

Table of drillers' logs of wells in Donley County, Texas

	Thickness (feet)	Depth (feet)
<u>Well 45</u>		
Gentle slope. O. Caraway, $8\frac{1}{4}$ miles northwest of Clarendon. The Texas Company, driller.		
Sand	5	5
Clay	52	57
Unknown	3	60
Sandy clay	105	165

	Thickness (feet)	Depth (feet)
<u>Well 49</u>		
Gentle slope. Mrs. Anna Hatchett, $5\frac{1}{2}$ miles northwest of Clarendon. The Texas Company, driller.		
Surface	5	5
Sandy clay	35	40
Sand and gravel	55	95
Sandy clay	65	160

	Thickness (feet)	Depth (feet)
<u>Well 56</u>		
Gentle slope. Bennett and Sims, $2\frac{1}{2}$ miles northwest of Clarendon. Phillips Petroleum Company, driller.		
Sand	17	17
Caliche and sandstone	55	72
Sand	9	81
Gravel	25	106
Unknown	3	109
Red shale	53	162

	Thickness (feet)	Depth (feet)
<u>Well 57</u>		
Gentle slope. Bennett and Sims, $2\frac{3}{4}$ miles northwest of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,705 feet.		
Surface soil	10	10
Sand and gravel	35	45
White caliche	20	65
Sandstone	45	110
Hard conglomerate	18	128
Pink clay	10	138
Hard anhydrite	2	140
Red shale	60	200

	Thickness (feet)	Depth (feet)
<u>Well 58</u>		
Gentle slope. Bennett and Sims, $2\frac{3}{4}$ miles northwest of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,723 feet.		
Surface soil	5	5
Soft sandstone	15	20
Sand	15	35
Rocks and gravel	5	40
Sandstone	5	45
Caliche and sandstone	50	95
Sand and gravel	30	125

	Thickness (feet)	Depth (feet)
<u>Well 58--Continued</u>		
Sandstone and caliche	30	155
Red shale	50	205

	Thickness (feet)	Depth (feet)
<u>Well 64</u>		
Gentle slope. Robt. Sawyer Est., $3\frac{1}{4}$ miles north of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,727 feet.		
Surface soil	2	2
Soft sandstone	10	12
Sandy clay	28	40
Water sand and gravel	45	85
Sandy clay	105	190
Sandstone with hard limestone streaks	20	210
Sand, gravel and conglomerate	62	272
Red shale	50	322

	Thickness (feet)	Depth (feet)
<u>Well 65</u>		
Gentle slope. Robt. Sawyer Est., $3\frac{1}{4}$ miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,722 feet.		
Surface soil and sand	14	14
Sandy clay	26	40
Water gravel	6	46
Sandy clay	64	110
Caliche and sandstone	30	140
Sandy clay	50	190
Red shale	40	230
Red and green shale	10	240

	Thickness (feet)	Depth (feet)
<u>Well 66</u>		
Gentle slope. Robt. Sawyer Est., 4 miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,646 feet.		
Surface soil	3	3
Red sand	7	10
Gravel	8	18
Sand	17	35
Gravel and sandstone	10	45
Sandy clay	10	55
Sand and gravel	10	65
Water gravel	5	70
Sandstone	8	78
Red shale	52	130

	Thickness (feet)	Depth (feet)
<u>Well 67</u>		
Gentle slope. Mrs. E. W. Bromley, $4\frac{1}{4}$ miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,591 feet.		

(Continued on next page)

Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 67--Continued</u>		
Sand	19	19
Water sand	6	25
Coarse grained sand and gravel	22	47
Bluish-gray shale with sand streaks	20	67
Gray shale, sand and gravel	13	80
Red shale	10	90*

<u>Well 68</u>		
Gentle slope. Mrs. E. W. Bromley, 4 $\frac{1}{2}$ miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,590 feet.		
Sand and gravel	21	21
Water sand	19	40
Gray clay with red shale streaks	81	121
Red shale	51	172

<u>Well 69</u>		
Gentle slope. L. O. Christie, 4 $\frac{3}{4}$ miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,614 feet.		
Surface soil	3	3
Sand and gravel	35	38
Gravel	27	65
Rough sandstone	25	90
Sandstone with streaks of clay	28	118
Red shale	52	170

<u>Well 70</u>		
Gentle slope. Mrs. S. J. Phelps, 5 miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,615 feet.		
Sand with hard streaks	70	70
Sand and gravel	85	155
Gravel	70	225
Red shale	55	280

<u>Well 72</u>		
Gentle slope. Owner --, 5 $\frac{1}{2}$ miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,603 feet.		
Surface soil	4	4
Sand and sandstone	21	25
Sand and gravel	75	100
Sandy clay	20	120

	Thickness (feet)	Depth (feet)
<u>Well 74</u>		
Gentle slope. Mrs. E. W. Bromley, 3 $\frac{1}{2}$ miles northeast of Clarendon. The Texas Company, driller.		
Surface soil	1	1
Sand	89	90
Sand and gravel	45	135

<u>Well 78</u>		
Gentle slope. Owner --, 2 miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,705 feet.		
Sandy clay and caliche	16	16
Sand and gravel	63	79
Sand, sandy clay, sandstone and caliche	12	91
Sandstone and gravel	22	113
Sandy clay	19	132
Red shale	8	140
Limestone and gravel	9	149
Hard limestone	2	151
Coarse-grained sand	5	156
Red shale	46	202

<u>Well 79</u>		
Gentle slope. Owner --, 2 $\frac{1}{4}$ miles northeast of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,743 feet.		
Surface soil	8	8
Caliche	32	40
Gravel	20	60
Sandstone	20	80
Water gravel	15	95
Hard conglomerate	5	100
Gravel	10	110
Red shale with limestone streaks	50	160

<u>Well 84</u>		
Gentle slope. Rollingsford Savings Bank, 6 miles northeast of Clarendon. The Texas Company, driller.		
Surface soil	3	3
Sand	12	15
Sandy clay	10	25
Sand and gravel	70	95
Red sand and clay	80	175

<u>Well 86</u>		
Gentle slope. Owner --, 7 $\frac{1}{2}$ miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,723 feet.		
Sand	55	55

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Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 86--Continued</u>		
Gray clay	10	65
Gravel and sand	170	235
Hard conglomerate	71	306
Red shale	54	360

	Thickness (feet)	Depth (feet)
<u>Well 87</u>		
Gentle slope. Owner --, $7\frac{1}{2}$ miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,769 feet.		
Surface soil and sand	12	12
Sandy clay	43	55
Gravel	10	65
Clay and sandstone	90	155
Sticky blue clay	23	178
Agglomerate	7	185
Sandstone and red clay	60	245
Red shale	5	250
Limestone	5	255
Red shale	45	300

	Thickness (feet)	Depth (feet)
<u>Well 88</u>		
Gentle slope. Owner --, 7 miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,746 feet.		
Surface soil	3	3
Sandy clay	64	67
Sand	23	90
Sand and gravel	40	130
Conglomerate	40	170
Sandy clay with sandstone and gravel streaks	40	210
Red shale	52	262

	Thickness (feet)	Depth (feet)
<u>Well 89</u>		
Gentle slope. C. C. Carter, $7\frac{3}{4}$ miles east of Clarendon. The Texas Company, driller.		
Sand	40	40
Gypsum	5	45
Clay	45	90
Gypsum	20	110
Clay and streaks of gypsum	40	150

	Thickness (feet)	Depth (feet)
<u>Well 90</u>		
Gentle slope. Mrs. Lulu Allan, $4\frac{3}{4}$ miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,684 feet.		
Sand	4	4
Sand and sandy clay	76	80
Caliche	15	95
Sandy clay and sandstone	37	132

	Thickness (feet)	Depth (feet)
<u>Well 92</u>		
Gentle slope. Sunnyview School, $4\frac{1}{2}$ miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,694 feet		
Surface soil	3	3
Caliche and sandstone	17	20
Gravel	10	30
Caliche and sandy clay	45	75
Gravel	15	90
Caliche and sandstone	10	100
Sandy clay	20	120
Hard caliche and sandstone	60	180

	Thickness (feet)	Depth (feet)
<u>Well 93</u>		
Gentle slope. Mrs. L. E. Mann, 3 miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,655 feet.		
Surface soil	5	5
Sand	13	18
Gravel	9	27
Caliche	8	35
Caliche and sandstone	95	130
Caliche and clay	20	150
Caliche and gravel	20	170
Red clay	10	180
Red shale	50	230

	Thickness (feet)	Depth (feet)
<u>Well 94</u>		
Gentle slope. J. D. Jefferies, 2 miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,732 feet		
Surface soil	4	4
Sandstone	21	25
Sandy clay	35	60
Sand and gravel	110	170
Sandy clay and caliche	20	190
Sand, gravel and sandstone	70	260
Red shale	50	310

	Thickness (feet)	Depth (feet)
<u>Well 95</u>		
Gentle slope. J. D. Jefferies, $1\frac{3}{4}$ miles east of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,729 feet.		
Surface soil	3	3
Soft sandstone	22	25
Caliche	25	50
Sandstone and caliche	27	77
Sandy clay	53	130
Sand and gravel	18	148
Red and green shale	52	200

Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 97</u>		
Fort Worth and Denver City R. R., $\frac{1}{2}$ mile east of Clarendon. H. C. Brumley, driller.		
Surface soil	3	3
Sand	7	10
Gray clay	52	62
Water sand and gravel	5	67
Heavy joint clay	24	91
Water sand and gravel	11	102

	Thickness (feet)	Depth (feet)
<u>Well 98</u>		
Flat. City of Clarendon, $\frac{1}{2}$ mile north-east of Clarendon.		
Surface soil	4	4
Sand and clay	46	50
Sand	4	54
Clay and caliche	26	80
Water sand	5	85
Clay	23	108
Sand and silt	12	120
Coarse-grained sand and gravel	2	122
Red beds	180	302

	Thickness (feet)	Depth (feet)
<u>Well 100</u>		
Flat. H. Fitzgerald, $\frac{1}{4}$ mile north of Clarendon. Frank Lyles, driller.		
Red sand	25	25
Red shale	33	58
Quicksand and gravel	40	98
Struck water at 80 feet.		

	Thickness (feet)	Depth (feet)
<u>Well 103</u>		
Gentle slope. W. Knorpp, $1\frac{1}{2}$ miles southwest of Clarendon. The Texas Company, driller.		
Caliche	25	25
Clay	25	50
Hard packsand	20	70
Clay	70	140
Gypsum	2	142
Clay	23	165

	Thickness (feet)	Depth (feet)
<u>Well 110</u>		
Gentle slope. W. F. Shannon, $4\frac{3}{4}$ miles west of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	65	70
Sandy clay streaks of hard sandstone	97	167

	Thickness (feet)	Depth (feet)
<u>Well 111</u>		
Gentle slope. A. L. Thornberry, $7\frac{3}{4}$ miles west of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	70	75
Sandy red clay	100	175

	Thickness (feet)	Depth (feet)
<u>Well 112</u>		
Gentle slope. Chas. Bairfield, $8\frac{1}{2}$ mile southwest of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Sandy clay	7	12
Sandy red clay	28	40
Gypsum	2	42
Sandy red clay with streaks of sand	98	140
Gypsum	10	150
Red clay	7	157
Gypsum	8	165
Clay	10	175

	Thickness (feet)	Depth (feet)
<u>Well 113</u>		
Gentle slope. Chas. Bairfield, $5\frac{3}{4}$ mile southwest of Clarendon. The Texas Company, driller.		
Clay and shale	100	100
Sand	10	110
Clay	10	120
Gypsum	5	125
Clay	5	130
Gypsum	10	140
Hard clay	35	175

	Thickness (feet)	Depth (feet)
<u>Well 116</u>		
C. D. Murphy, $3\frac{1}{2}$ miles southwest of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,920 feet.		
Surface soil	10	10
Caliche and sandstone	25	35
Caliche and gravel	40	75
Caliche, sandstone and gravel	131	206
Red shale	54	260

	Thickness (feet)	Depth (feet)
<u>Well 117</u>		
Gentle slope. C. D. Murphy, 3 miles southwest of Clarendon. Phillips Petroleum Company, driller. Elevation, 2,885 feet.		

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Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 117--Continued</u>		
Sandy clay	9	9
Gravel	5	14
Sandstone	18	32
Gravel	48	80
Sand, sandstone and gravel	60	140
Sandy yellow shale	32	172
Red shale	50	222

<u>Well 118</u>		
Gentle slope. Mrs. M. L. Knox, 2 $\frac{1}{2}$ miles southwest of Clarendon. Phillips Petroleum Company, driller. Elevation 2,854 feet.		
Surface soil	15	15
Caliche and sandstone	45	60
Caliche and gravel	20	80
Sandy clay	20	100
Sandstone and caliche	50	150
Red sandstone	10	160
Red shale with limestone streaks	50	210

<u>Well 121</u>		
Gentle slope. Mrs. B. W. Chamberlain, 3 $\frac{1}{2}$ miles southeast of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Sandy clay	5	10
Caliche, gravel and sand	15	25
Sandy clay	25	50
Sandy clay with streaks of sand	125	175

<u>Well 128</u>		
Flat. E. M. Ozier, 3 $\frac{1}{2}$ miles southwest of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Sand	10	15
Sandy clay	105	120
Gypsum	5	125
Clay and shale	40	165

<u>Well 131</u>		
C. Adair Est., 10 $\frac{1}{2}$ miles southwest of Clarendon. The Texas Company, driller.		
No record	89	89
Pea gravel and rocks	31	120
Gypsum	17	137
Sand	13	150
Clay	25	175
Shale and gypsum	25	200
Sand and clay	40	240
Gypsum	10	250

	Thickness (feet)	Depth (feet)
<u>Well 132</u>		
C. Adair Est., 13 $\frac{1}{2}$ miles southwest of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	90	95
Blue clay	30	125
Sand and conglomerate with streaks of clay	56	181

<u>Well 133</u>		
In draw. C. Adair Est., 15 $\frac{1}{2}$ miles southwest of Clarendon. The Texas Company, driller.		
Clay	20	20
Sand	10	30
Clay	40	70
Gypsum	32	102
Clay	28	130
Sand	20	150
Clay with streaks of gypsum	50	200

<u>Well 134</u>		
Flat. C. Adair Est., 8 $\frac{3}{4}$ miles southwest of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Red clay with hard streaks	40	45
Gypsum	3	48
Sandy red clay	57	105
Gypsum	3	108
Sandy red clay	47	155
Red sand	20	175
Sandy red clay	30	205
Gypsum	5	210
Sandy red clay	5	215

<u>Well 135</u>		
In draw. C. Adair Est., 7 $\frac{1}{4}$ miles southwest of Clarendon. The Texas Company, driller.		
Sandy clay	40	40
Gypsum	15	55
Clay	42	97
Gypsum	23	120
Red shale and clay with streaks of gypsum	80	200

<u>Well 136</u>		
In draw. C. Adair Est., 6 $\frac{3}{4}$ miles southwest of Clarendon. The Texas Company, driller.		
Surface soil	5	5
Red sand	25	30
Sandy red clay	97	130

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Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 136--Continued</u>		
Gypsum	5	135
Sandy red clay with thin streaks of gypsum	100	235

	Thickness (feet)	Depth (feet)
<u>Well 137</u>		
Gentle slope. C. Adair Est., 7 miles southwest of Clarendon. The Texas Company, driller.		
Shale and clay	55	55
Gypsum	5	60
Clay	15	75
Gypsum	5	80
Clay and gypsum	125	205

	Thickness (feet)	Depth (feet)
<u>Well 138</u>		
C. Adair, Est., $9\frac{3}{4}$ miles south of Clarendon. The Texas Company, driller.		
Sand	5	5
Hard sandstone and shale	63	68
Clay	82	150
Gypsum with streaks of limestone	37	187
Clay	23	210

	Thickness (feet)	Depth (feet)
<u>Well 139</u>		
In draw. C. Adair Est., $12\frac{1}{4}$ miles south of Clarendon. The Texas Company, driller.		
Shale and clay	193	193
Gypsum	7	200
Clay	5	205

	Thickness (feet)	Depth (feet)
<u>Well 140</u>		
Flat. J. C. Heathington, $6\frac{1}{2}$ miles southeast of Clarendon. The Texas Company, driller.		
Surface soil	4	4
Sand and gravel	36	40
Sandy clay	35	75
Sand	30	105
Sandy clay with streaks of hard sand	60	165

	Thickness (feet)	Depth (feet)
<u>Well 146</u>		
Gentle slope. B. L. Jenkins, Sr., $5\frac{3}{4}$ miles southeast of Clarendon. The Texas Company, driller.		
Sand	25	25
No record	5	30
Clay	45	75
Gravel	10	85
Clay	45	130
Clay and gypsum	35	165

	Thickness (feet)	Depth (feet)
<u>Well 175</u>		
Gentle slope. D. B. Purdue, $8\frac{1}{2}$ miles southeast of Clarendon. The Texas Company, driller.		
Sand	40	40
Clay	35	75
Gravel	10	85
Clay	45	130
Gypsum	5	135
Clay and gypsum	30	165

	Thickness (feet)	Depth (feet)
<u>Well 177</u>		
Gentle slope. Bugbee Livestock and Land Company, 12 miles southeast of Clarendon. The Texas Company, driller.		
Not given	85	85
Sandy clay	53	138
Sand and gravel	22	160
Brown clay	15	175
Sandy clay	10	185

	Thickness (feet)	Depth (feet)
<u>Well 178</u>		
Gentle slope. Bugbee Livestock and Land Company, 14 miles southeast of Clarendon. The Texas Company, driller.		
Sand and gravel	50	50
Shale and clay	50	100
Gypsum	5	105
Shale and clay	45	150

	Thickness (feet)	Depth (feet)
<u>Well 200</u>		
Gentle slope. F. R. McCracken, 20 miles north of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sandy clay	60	65
Sand and gravel	15	80
Sandy clay	50	130
Blue clay streaks of gray lime	30	160
Sandy gray clay	40	200
Sand streaks and sandstone	75	275

	Thickness (feet)	Depth (feet)
<u>Well 202</u>		
Gentle slope. W. J. Lewis, $19\frac{1}{2}$ miles north of Hedley. The Texas Company, driller.		
Sand and gravel	115	115
Gypsum	2	117
Shale and gypsum	8	125
Gypsum	2	127
Shale	103	230

Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 203</u>		
Gentle slope. J. L. McMurtry, 19 $\frac{1}{2}$ miles north of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	55	60
Clay	30	90
Sand	40	130
Conglomerate	7	137
Clay	3	140
Gray lime	2	142
Red clay	48	190
Gray clay	10	200
Sandy red clay	15	215

	Thickness (feet)	Depth (feet)
<u>Well 205</u>		
Owner unknown, 20 miles north of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand	40	45
Sand and gravel	39	84
Red clay with streaks of red and gray packsand	23	107
Sandy red shale	230	337

	Thickness (feet)	Depth (feet)
<u>Well 206</u>		
Owner unknown, 20 $\frac{3}{4}$ miles northeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	90	95
Red packsand with clay streaks	138	233
Hard rock	3	236
Sandy clay	4	240
Gypsum	3	243

	Thickness (feet)	Depth (feet)
<u>Well 207</u>		
Gentle slope. R. S. Thompson Est., 18 miles northeast of Hedley. The Texas Company, driller.		
Shale and clay	245	245
Gypsum	7	252
Clay	20	272
Gypsum	2	274
Clay and shale	19	293
Gypsum	1	294
Shale	10	304
Gypsum	2	306
Shale	26	332
Gypsum	3	335

	Thickness (feet)	Depth (feet)
<u>Well 208</u>		
The Texas Company, 17 miles northeast of Hedley. The Texas Company, driller.		
Shale and clay	190	190
Gypsum	10	200
Clay	21	221
Gypsum	5	226
Clay	2	228
Gypsum	4	232
Shale with streaks of gypsum	108	340
Gypsum	10	350

	Thickness (feet)	Depth (feet)
<u>Well 210</u>		
Gentle slope. W. J. Lewis, 16 $\frac{3}{4}$ miles north of Hedley. The Texas Company, driller.		
Shale and clay	200	200
Shale with streaks of gypsum	30	230
Shale	20	250

	Thickness (feet)	Depth (feet)
<u>Well 212</u>		
Gentle slope. W. J. Lewis, 16 $\frac{3}{4}$ miles north of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	115	120
Sandy red clay with streaks of red sand	165	285

	Thickness (feet)	Depth (feet)
<u>Well 213</u>		
Gentle slope. T. J. D'Spain, 17 $\frac{1}{4}$ miles northwest of Hedley. The Texas Company, driller.		
Clay	110	110
Gypsum	10	120
Clay with streaks of gypsum	17	137
Gypsum	2	139
Clay and gypsum	31	170
Gypsum	5	175
Clay	45	220
Gypsum	5	225
Clay with streaks of gypsum	40	265

	Thickness (feet)	Depth (feet)
<u>Well 216</u>		
Gentle slope. W. D. Van Eaton Est., 14 $\frac{1}{2}$ miles northwest of Hedley. The Texas Company, driller.		
Sand	100	100
Clay	30	130
Gypsum	1	131
Clay and shale	54	185

Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 218</u>		
Gentle slope. W. J. Lewis, 14 $\frac{1}{4}$ miles north of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sandy brown and red clay	37	42
Gravel	6	48
Sandy red clay with streaks of sand	64	112
Sandy gray clay	4	116
Sandy red clay	37	153
Red clay with streaks of gypsum and hard red sand	132	285

	Thickness (feet)	Depth (feet)
<u>Well 219</u>		
Gentle slope. W. J. Lewis, 13 $\frac{3}{4}$ miles north of Hedley. The Texas Company, driller.		
Shale	175	175
Gypsum	3	178
Clay	2	180
Gypsum	30	210
Shale and gypsum	40	250

	Thickness (feet)	Depth (feet)
<u>Well 220</u>		
Owner --, 14 $\frac{1}{4}$ miles northeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sandy red shale	55	60
Gypsum	2	62
Unknown	113	175

	Thickness (feet)	Depth (feet)
<u>Well 221</u>		
Gentle slope. George W. Sitter, 15 $\frac{1}{2}$ miles northeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sandy red shale with streaks of hard sand	96	101
Gypsum	5	106
Sandy red clay with streaks of gray packsand	84	190
Red shale and gypsum	23	213
Gypsum	3	216
Shale	8	224
Gypsum	9	233
Lime	6	239
Red and blue clay	7	246
Gypsum	1	247

	Thickness (feet)	Depth (feet)
<u>Well 223</u>		
Gentle slope. George W. Sitter, 12 $\frac{1}{2}$ miles northeast of Hedley. The Texas Company, driller.		
Surface soil	5	5

	Thickness (feet)	Depth (feet)
<u>Well 223--Continued</u>		
Sand	10	15
Gravel	11	26
Gypsum	2	28
Sandy red clay	87	115
Shale with gypsum streaks	36	151
Gypsum	7	158
Lime	13	171
Shale	9	180

	Thickness (feet)	Depth (feet)
<u>Well 225</u>		
Gentle slope. Owner --, 11 $\frac{1}{4}$ miles north east of Hedley. The Texas Company, driller.		
Sand and gravel	78	73
Clay with streaks of gravel	95	173
Gypsum	15	188
Clay and shale	79	267
Gypsum	5	272
Shale and gypsum	8	280

	Thickness (feet)	Depth (feet)
<u>Well 226</u>		
Flat. W. J. Lewis, 11 miles north of Hedley. The Texas Company, driller.		
Shale	83	83
Gypsum	3	86
Shale	3	89
Gypsum	11	100
Shale with straks of gypsum	50	150

	Thickness (feet)	Depth (feet)
<u>Well 227</u>		
Flat. W. J. Lewis, 11 miles north of Hedley. The Texas Company, driller.		
Surface soil	1	1
Red clay	9	10
Gypsum	3	13
Red clay	67	80
Sand and gypsum	10	90
Red clay with streaks of gypsum	77	167

	Thickness (feet)	Depth (feet)
<u>Well 228</u>		
Gentle slope. W. J. Lewis, 11 $\frac{1}{2}$ miles northwest of Hedley. The Texas Company, driller.		
Not given	84	84
Red shale	46	130
Gypsum	5	135
Shale and gypsum streaks	20	155
Gypsum	6	161
Red shale	4	165

Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 229</u>		
Gentle slope. W. J. Lewis, 11 $\frac{1}{2}$ miles northwest of Hedley. The Texas Company, driller.		
Surface soil	3	3
Sandy clay and small boulders	5	8
Sandy brown clay	14	22
Sandy red clay	155	177

	Thickness (feet)	Depth (feet)
<u>Well 230</u>		
Gentle slope. W. J. Lewis, 9 miles northwest of Hedley. The Texas Company, driller.		
Sand	60	60
Sand and gravel	40	100
Quicksand	5	105

	Thickness (feet)	Depth (feet)
<u>Well 233</u>		
Gentle slope. A. O. Hefner, 8 miles northwest of Hedley. The Texas Company, driller.		
Sand	40	40
Sand and gravel	50	90
Red clay	65	155

	Thickness (feet)	Depth (feet)
<u>Well 240</u>		
Gentle slope. Owner --, 5 $\frac{1}{4}$ miles northwest of Hedley. The Texas Company, driller.		
Sand	20	20
Sandy clay	13	33
Brown clay	12	45
Yellow clay	50	95
Red clay	40	135
Gypsum	5	140
Red clay with gypsum streaks	15	155

	Thickness (feet)	Depth (feet)
<u>Well 242</u>		
Gentle slope. Mrs. R. W. Scales, 5 miles north of Hedley. The Texas Company, driller.		
Sand and gravel	90	90
Clay	10	100
Gypsum	10	110
Clay with streaks of gypsum	30	140
Clay	45	185

	Thickness (feet)	Depth (feet)
<u>Well 250</u>		
In draw. W. J. Lewis, 8 miles north of Hedley. The Texas Company, driller.		
Sand	55	55
Sand and gravel	40	95
Sandy red clay	70	165

	Thickness (feet)	Depth (feet)
<u>Well 252</u>		
Gentle slope. Owner --, 8 $\frac{1}{2}$ miles northeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	35	40
Sandy red clay	96	136
Gypsum	10	146
Red clay	9	155

	Thickness (feet)	Depth (feet)
<u>Well 253</u>		
Gentle slope. John A. Wood, 10 miles northeast of Hedley. The Texas Company, driller.		
Surface soil	10	10
Sand	30	40
Gravel	25	65
Shale	15	80
Gypsum	15	95
Shale and clay	55	150

	Thickness (feet)	Depth (feet)
<u>Well 256</u>		
Gentle slope. W. F. Walker, 8 $\frac{1}{4}$ miles northeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand	40	45
Sandy clay and sand	40	85
Red sand and sandy clay	165	230
Not given	10	260

	Thickness (feet)	Depth (feet)
<u>Well 259</u>		
Gentle slope. T. R. Moreman, 6 miles northeast of Hedley. The Texas Company, driller.		
Surface soil	10	10
Sand	20	30
Clay	10	40
Sand	40	80
Shale	20	100
Shale and clay	120	220

	Thickness (feet)	Depth (feet)
<u>Well 263</u>		
Mrs. S. A. McCarroll, 1 $\frac{3}{4}$ miles northeast of Hedley. The Texas Company, driller.		
Sand and gravel	45	45
Clay	40	85
Gypsum	3	88
Clay	12	100
Gypsum	10	110
Clay with streaks of gypsum	40	150

Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 266</u>		
Gentle slope. Plunk and Thompson, 4 $\frac{1}{4}$ miles northeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand and gravel	15	20
Clay	120	140
Shale and clay	45	185
Gypsum	15	200
Shale	35	235
Gypsum	5	240
Clay	30	270
Gypsum	5	275
Clay	10	285
Gypsum	24	309
Clay	6	315
Shale with streaks of gypsum	60	375

<u>Well 269</u>		
Gentle slope. X. R. Hyde, 7 miles north-east of Hedley. The Texas Company, driller.		
Surface soil	5	5
Clay	10	15
Sand and sandy clay	30	45
Sandy red shale	39	84
Lime	1	85
Sandy red shale	115	200
Not given	17	217

<u>Well 270</u>		
Gentle slope. Carl Williamson, 6 miles southeast of Hedley. The Texas Company, driller.		
Sand	10	10
Sand and clay	30	40
Clay	50	90
Shale and clay	75	165
Gypsum with streaks of shale	35	200
Shale	15	215
Gypsum	20	235
Shale and clay	85	320
Shale with streaks of gypsum	50	370
Gypsum	30	400

<u>Well 271</u>		
Gentle slope. A. E. Ransom, 4 $\frac{1}{4}$ miles southeast of Hedley. The Texas Company, driller.		
Surface soil	3	3
Sand, gravel and caliche	47	50
Gravel with streaks of conglomerate	15	65

	Thickness (feet)	Depth (feet)
<u>Well 271--Continued</u>		
Brown clay with streaks of gravel		
	77	142
Sandy red shale	171	313
Gypsum	2	315

<u>Well 272</u>		
Gentle slope. Mrs. J. S. Beach, 2 miles southeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sandy gray clay	5	10
Sand and gravel	70	80
Sandy clay	85	165

<u>Well 275</u>		
Gentle slope. City of Hedley, 1 $\frac{5}{8}$ miles northwest of Hedley. William Miller, driller.		
Surface soil	4	4
Loam	26	30
Sandy loam	35	65
Clay loam	12	77
Loam	13	90
Packsand	8	98
Water sand	17	115
Did not go entirely through water sand.		

<u>Well 276</u>		
Gentle slope. Mrs. N. Griffin, 3 miles northwest of Hedley. The Texas Company, driller.		
Sand and gravel	40	40
Clay and gravel	35	75
Clay	40	115
Gypsum	10	125
Clay	25	150

<u>Well 277</u>		
In valley. B. J. Leathers, 5 $\frac{1}{2}$ miles northwest of Hedley. The Texas Company, driller.		
Sand	40	40
Clay	5	45
Sand	55	100
Red clay	45	145

<u>Well 278</u>		
J. H. Riffle, 5 $\frac{1}{4}$ miles southwest of Hedley. The Texas Company, driller.		
Sand and gravel	50	50
Clay and shale	38	88
Gypsum	4	92
Clay	63	155
Gypsum	30	185

Table of drillers' logs of wells in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 282</u>		
Gentle slope. G. W. Sexaur, $8\frac{1}{2}$ miles south of Hedley. The Texas Company, driller.		
Sand and gravel	40	40
Sandy red clay	146	186
Gypsum	1	187
Sandy red clay	17	304
Gypsum	5	309
Clay with gypsum streaks	71	380
Dark red shale	36	416
Gypsum	17	433
Shale	11	444
Gypsum	13	457
Blue and red shale	8	465

<u>Well 283</u>		
Gentle slope. J. D. Browder, 6 miles southeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand	45	50
Shale and clay	135	185
Gypsum	4	189
Shale and clay	6	195
Shale with streaks of gypsum	10	205

<u>Well 287</u>		
Gentle slope. Fred M. Finch, $5\frac{1}{2}$ miles southwest of Hedley. The Texas Company, driller.		
Surface soil	5	5
Sand	50	55
Sandy red clay	162	217

<u>Well 296</u>		
Gentle slope. J. G. McDougal Est., $2\frac{1}{2}$ miles southwest of Hedley. The Texas Company, driller.		
Sand	5	5
Gypsum	45	50
Clay	50	100
Hard sand	30	130
Clay	65	195

	Thickness (feet)	Depth (feet)
<u>Well 304</u>		
Annie Gene McCray, 6 miles southeast of Hedley. The Texas Company, driller.		
Sand and gravel	5	5
Clay	75	80
Clay with streaks of shale	70	150

<u>Well 307</u>		
Gentle slope. W. P. Dial, 8 miles southeast of Hedley. The Texas Company, driller.		
Surface soil	5	5
Gray clay	17	22
Sandy red shale	62	84
Gypsum	2	86
Sandy red shale	59	145
Shale and broken gypsum	20	165

<u>Well 313</u>		
Gentle slope. Mrs. A. Hampton, $9\frac{1}{2}$ miles southeast of Hedley. The Texas Company, driller.		
Sand	70	70
Shale	78	148
Gypsum	12	160
Shale and clay	40	200
Clay with streaks of shale	67	267
Gypsum	23	290
Blue clay	10	300

Logs of test wells drilled by W. P. A. labor in Donley County, Texas

	Thickness (feet)	Depth (feet)
<u>Well 2</u>		
Upland flat, side of county road, 18 $\frac{1}{2}$ miles northwest of Clarendon.		
Top soil	2	2
Brown sandy clay	1	3
Sandy caliche	1	4
Brown clay and caliche	1	5
Caliche	1	6
Brown sandy clay and caliche	8	14
June 4, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 3</u>		
Upland flat, side of county road, 16 $\frac{1}{2}$ miles northwest of Clarendon.		
Top soil and gumbo	2	2
Light-brown clay	3	5
Caliche and brown clay	12	17
Brown clay	2	19
June 4, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 17</u>		
Gentle slope toward creek, side of county road, 9 miles northwest of Clarendon.		
Top soil and clay	3	3
Dark-brown sandy clay	2	5
Light-brown sand, some clay	3	8
Gray clay with thin strata of light-colored sandy clay	15	23
Light-brown sand, some clay	2	25
Struck water at 8.80 feet. Water level, 8.75 feet below land surface, 1 hour after hole completed. March 13, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 18</u>		
Gentle slope east to small lake, Clarendon Country Club, 9 $\frac{1}{4}$ miles northwest of Clarendon.		
Sandy clay and caliche	4	4
Red sand	1	5
Sandy clay and caliche	5	10
Brown sand, some clay and caliche	18	28
Struck water at 23.09 feet. Water level, 20.73 feet below land surface, April 1, 1941. March 8, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 19</u>		
Upland flat, side of county road, 9 $\frac{1}{2}$ miles northwest of Clarendon.		
Sandy loam	1	1
Sandy clay and caliche	2	3
Sand, gravel and some caliche	8	11
Fine-grained sand	21	32
Struck water at 32 feet. Water level, 30 feet below land surface, 1 hour after hole completed. March 8, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 20</u>		
Side of lake bank, Clarendon Country Club, 9 $\frac{1}{4}$ miles northwest of Clarendon.		
Yellow sand	5	5
Sand and clay	2	7
Sand	11	18
Struck water at 7 $\frac{1}{2}$ feet. Water level, 7.50 feet below land surface, 1 hour after hole completed. March 14, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 27</u>		
In valley, side of county road, 9 $\frac{1}{2}$ miles northwest of Clarendon.		
Sandy loam	2	2
Fine-grained sand and caliche	3	5
Sandy clay and caliche	5	10
Light reddish-brown sand	1	11
Light-brown clay	3	14
Sandy clay	19	33
Struck water at 25 feet. Water level, 24.82 feet below land surface, April 1, 1941. March 8, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 28</u>		
Flat, side of county road, 9 $\frac{1}{2}$ miles north of Clarendon.		
Sandy top soil	4	4
Light-brown sand	5	9
Brown sandy clay	5	14
Caliche and brown sandy clay	2	16
Brown fine-grained sand, some clay	8	24
Struck water at 17.33 feet. Water level, 14.00 feet below land surface, April 1, 1941. March 8, 1941.		

Logs of test wells drilled by W. F. A. labor in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 30</u>		
Gentle slope to northwest, side of county road, $9\frac{1}{4}$ miles north of Clarendon.		
Sandy loam	3	3
Sand, some clay and caliche	12	15
Sandy clay	2	17
Fine-grained sand	27	44
Struck water at 43.50 feet. Water level, 43.50 feet below land surface, 1 hour after hole completed. March 4, 1941.		

<u>Well 62</u>		
Flat, side of county road, $4\frac{1}{2}$ miles north of Clarendon.		
Sandy top soil	6	6
Brown sand, some gravel	10	16
Sticky clay	19	35
Struck water at $22\frac{1}{2}$ feet. Water level, 22.35 feet below land surface, 1 hour after hole completed. February 27, 1941.		

<u>Well 63</u>		
River valley flat, side of county road, $4\frac{1}{2}$ miles north of Clarendon.		
Sandy top soil	7	7
Silt and sand	5	12
White fine-grained sand, some gravel	9	21
Struck water at $20\frac{1}{2}$ feet. Water level, 20.5 feet below land surface, 1 hour after hole completed. February 27, 1941.		

<u>Well 123</u>		
Slightly rolling, side of county road, $3\frac{1}{4}$ miles south of Clarendon.		
Dark-brown sandy clay	2	2
Coarse-grained sand	7	9
Sand, gravel and some clay	9	18
Sandy clay	25	43
White sand	28	71
Sand, small amount of clay	26	97
March 15, 1941.		

<u>Well 124</u>		
Gentle slope, side of county road, $3\frac{1}{4}$ miles south of Clarendon.		

	Thickness (feet)	Depth (feet)
<u>Well 124--Continued</u>		
Dark-brown sandy clay	5	5
Sand, some gravel and caliche	6	11
Sand, some clay and caliche	11	22
Light-brown sand	23	45
Sand, small amounts of caliche	3	48
Light-brown sand	17	65
Sand, some caliche	15	80
March 15, 1941.		

<u>Well 149</u>		
Crest of hill, side of county road, 6 miles southeast of Clarendon.		
Sandy top soil	2	2
Brown sand, some clay	11	13
Caliche and sand	32	45
Sand, caliche and some clay	20	65
White fine-grained sand	10	75
Struck water at 73 feet. Water level, 72.87 feet below land surface, $\frac{1}{4}$ hour after hole completed. May 1, 1941.		

<u>Well 151</u>		
Rolling hills, side of county road, $6\frac{1}{2}$ miles southeast of Clarendon.		
Sandy top soil	1	1
Sandy caliche	2	3
Fine-grained sand, some caliche	6	9
Sandy clay and caliche	10	19
Light-brown sand, some caliche	9	28
Caliche and clay, some sand	4	32
Yellow sand, some clay and caliche	6	38
Tan sandy clay, some caliche	19	57
Struck water at 54 feet. Water level, 53.73 feet below land surface, $\frac{1}{2}$ hour after hole completed. April 21, 1941.		

Logs of test wells drilled by W. P. A. labor in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 153</u>		
Crest of hill, side of county road, $6\frac{1}{2}$ miles southeast of Clarendon.		
Sandy top soil	2	2
Sandy clay and gravel	2	4
Sand and caliche	4	8
Light-brown fine-grained sand, some clay	32	40
Fine-grained sand and caliche, some clay	41	81
Struck water at 80 feet. April 21, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 154</u>		
Near bottom of small draw, side of county road, $6\frac{1}{2}$ miles southeast of Clarendon.		
Sandy top soil	8	8
Light-brown sand, some caliche	3	11
Dark-brown sandy clay	3	14
Light-brown sand, some clay	4	18
Caliche, some clay	7	25
Light-brown sandy clay, some caliche	1	26
Sandy caliche and clay	6	32
Struck water at 15 feet. Water level, 14.30 feet below land surface, $\frac{1}{2}$ hour after hole completed. April 21, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 155</u>		
Gentle slope, side of county road, $6\frac{3}{4}$ miles southeast of Clarendon.		
Sandy loam	2	2
Gray sand, some clay	4	6
Dark-gray sandy clay	2	8
Yellow sandy clay, some caliche	4	12
Gray clay, some caliche	10	22
Light brownish-red clay	15	37
Light-brown sand, some clay	1	38
Struck water at 26 feet. Water level, 20.37 feet below land surface, 6 hours after hole completed. April 21, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 166</u>		
Flat near creek, Miss Moody Kennedy, $8\frac{1}{2}$ miles southeast of Clarendon.		
Top soil, some clay	2	2
Red sandy clay	7	9

	Thickness (feet)	Depth (feet)
<u>Well 166--Continued</u>		
Sandy clay and caliche	4	13
Light-brown sandy clay	3	16
Brown sand	10	26
Struck water at 3.5 feet. Water level, 3.25 feet below land surface, 24 hours after hole completed. April 7, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 167</u>		
Flat in creek valley, Miss Moody Kennedy, $8\frac{1}{2}$ miles southeast of Clarendon.		
Sandy top soil, some clay	3	3
Blue-gray coarse-grained sand	1	4
Gray sandy clay	13	17
Struck water at 4.0 feet. Water level, 3.75 feet below land surface, 24 hours after hole completed. April 8, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 168</u>		
Flat east of small creek, Miss Moody Kennedy, $8\frac{1}{2}$ miles southeast of Clarendon.		
Top soil, some clay	1	1
Gray sand, some clay	5	6
Blue-gray sand	2	8
Gray clay	4	12
Red sandy clay	1	13
Brown sand, some clay	4	17
Brown sand	4	21
White sandy clay	1	22
Light-brown coarse-grained sand	2	24
Struck water at 3 feet. Water level, 2.80 feet below land surface, 20 hours after hole completed. April 5, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 237</u>		
Sandy hills, side of county road, $6\frac{1}{2}$ miles north of Hedley.		
Sandy top soil	1	1
Coarse-grained sand	2	3
Sandy clay	3	6
Fine-grained sand, some volcanic ash	3	9
White fine-grained sand	5	14
Silt and sand	4	18
White fine-grained sand	2	20
Yellow fine-grained sand	13	33
(Continued on next page)		

Logs of test wells drilled by W. P. A. labor in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 237--Continued</u>		
Volcanic ash	4	37
Coarse-grained sand and gravel	8	45
Light-gray clay	10	55
Light-brown fine-grained sand	5	58
Struck water at 56.0 feet. April 25, 1941.		

<u>Well 241</u>		
Rolling sand hills, side of county road, $4\frac{3}{4}$ miles north of Hedley.		
Sandy top soil	6	6
Dark-brown sandy clay	2	8
Brown sand	12	20
Brown coarse-grained sand, some clay	6	26
Red coarse-grained sand	6	32
Brown fine-grained sand, some gravel	5	37
White coarse-grained sand, some gravel	5	42
Light-brown fine-grained sand, some clay	2	44
White coarse-grained sand, some gravel	5	49
White fine-grained sand	17	66
Brown fine-grained sand and silt, some gravel	8	74
White medium-grained sand	4	78
May 12, 1941.		

<u>Well 243</u>		
Rolling sand hills, side of county road, 5 miles north of Hedley.		
Sandy top soil	4	4
Brown sandy loam	4	8
Brown sand, some clay	3	11
Light reddish-brown sand	20	31
Brown medium-grained sand, some clay	14	45
Light-brown fine-grained sand, some clay	2	47
Yellow coarse-grained sand and gravel	3	50
May 13, 1941.		

<u>Well 245</u>		
Sandy hills, side of county road, 5 miles northeast of Hedley.		

	Thickness (feet)	Depth (feet)
<u>Well 245--Continued</u>		
Brown sand, some clay	5	3
Gray sand, silt	6	9
Brown clay	3	12
Light-brown sand, some clay	1	13
Brown sand	23	36
White fine-grained sand	5	41
Brown sand and clay	30	71
Light-brown clay, some sand	9	80
Light-brown sand, some clay	2	82
Fine-grained sand, some clay	13	95
Coarse-grained sand and gravel	5	100
May 13, 1941.		

<u>Well 251</u>		
Gentle slope, side of county road, 8 miles northeast of Hedley		
Sandy top soil	4	4
Light-brown sand, some gravel	5	9
Brown sandy clay	1	10
White fine-grained sand	9	19
Yellow coarse-grained sand	1	20
White fine-grained sand	1	21
Brown coarse-grained sand	9	30
May 26, 1941.		

<u>Well 260</u>		
Slightly rolling sand hills, side of county road, $5\frac{1}{4}$ miles northeast of Hedley		
Gray sand, some silt	2	2
Reddish-brown sand, some clay	5	7
Red medium-grained sand	6	13
Reddish-colored sand, some clay	10	23
Light-brown sand	10	33
Light-brown sandy clay	9	42
Light-brown clay, some sand	1	43
Yellow clay	2	45
Yellow fine-grained sand and silt	2	47
Yellow clay, some sand	16	63
Yellow fine-grained sand	5	68
May 13, 1941.		

Logs of test wells drilled by W. P. A. labor in Donley County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 299</u>		
Rolling, side of county road, $5\frac{1}{4}$ miles southeast of Hedley.		
Sandy top soil	2	2
Sand and caliche, some gravel and clay	3	5
Brown coarse-grained sand	5	10
Gravel, sand and caliche	12	22
Light-brown sand, clay nodules	10	32
Struck water at 27 feet. April 9, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 301</u>		
Gentle slope, side of county road, 6 miles southeast of Hedley.		
Sandy top soil, caliche and gravel	3	3
White fine-grained sand	6	9
Coarse-grained sand, gravel and caliche	3	12
Struck water at 11 feet. April 10, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 309</u>		
Gentle slope, side of county road, $7\frac{1}{4}$ miles southeast of Hedley.		
Brown sandy clay	15	15

	Thickness (feet)	Depth (feet)
<u>Well 309--Continued</u>		
Brown fine-grained sand	9	24
Brown clay	14	38
Brown fine-grained sand and clay	9	47
Struck water at 30.50 feet. Water level, 30.40 feet below land surface, 5 hours after hole completed. April 15, 1941.		

	Thickness (feet)	Depth (feet)
<u>Well 312</u>		
Flat, side of county road, 9 miles southeast of Hedley.		
Sandy top soil	2	2
Brown fine-grained sand and silt, some gravel	7	9
Light-brown clay	4	13
Light-tan sandy clay	2	15
Brown sandy clay and caliche	2	17
Brown fine-grained sand, some clay	6	23
Brown clay	2	25
Brown fine-grained sand	5	30
Yellow sand	4	34
Brown fine-grained sand and silt	2	36
Red fine-grained sand, some clay	24	60
April 15, 1941.		

Partial analyses of water from wells and springs in Donley County, Texas

Analyzed at The University of Texas under the direction of E. W. Lohr and W. W. Hastings, 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 c/	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO ₃)	Sul- phate (SO ₄)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃ (calc.)
1	Mrs. L. Angel	300+	June 4, 1941	221	45	18	15	232	12	10	0.6	a/	186
4	Clay Inmon	220	May 7, 1942	225	56	17	9.4	256	7	5.5	1.6	a/	211
6	Humble Pipe Line Co.	200+	do.	251	67	18	2.5	214	25	31	-	a/	241
8	Jack Roach	227	June 11, 1941	169	40	7.1	18	189	5	5.0	.6	a/	129
21	Fontayne Elmore	74	May 27, 1941	199	34	16	23	207	12	12	-	a/	150
25	Jim Feggram	132+	do.	288	50	22	29	250	51	12	1.0	a/	213
31	L. L. Johnson	-	May 7, 1942	283	66	12	27	244	30	28	.4	a/	212
32	Smith Bros. Co.	130	Mar. 8, 1941	272	56	20	28	244	39	28	.7	a/	222
38	Grady Henson	-	May 5, 1942	227	66	b/	20	238	8	9.5	.4	a/	177
39	W. D. Clammitt	-	do.	246	59	18	6.2	220	7	14	-	34	221
40	Memphis Cotton Oil Co.	105	Apr. 2, 1941	323	82	14	21	262	39	38	-	a/	264
43	Mrs. W. S. Nobles	-	May 5, 1942	402	96	6.8	47	299	59	44	.1	a/	269
46	O. Caraway	62	do.	478	116	3.2	44	293	27	24	-	127	302
48	M. D. Wood	115	May 4, 1942	306	53	8.0	54	275	26	10	-	20	165
51	Edwin Baley	72	May 5, 1942	414	68	13	72	317	48	38	-	a/	223
53	Mrs. W. B. Stenson	76	May 1, 1942	315	92	11	8.5	250	44	26	-	a/	277
59	Mrs. -- Leonard	87	do.	342	94	13	14	220	48	67	.5	a/	288
61	Forrest Sawyer	Spring	Mar. 4, 1941	368	70	19	42	214	51	80	.6	a/	252
71	Mrs. T. K. Stone	101	May 28, 1941	299	74	16	20	275	23	31	.3	a/	250
75	Forrest Sawyer	52	May 9, 1941	268	-	-	-	262	31	6.0	-	a/	-
76	do.	-	do.	346	77	17	32	293	48	28	.4	a/	260
98	City of Clarendon	302	Feb 17, 1941	259	71	9.2	14	238	13	15	.7	20	216
99	-- Morris	-	May 9, 1942	289	79	8.0	23	293	7	16	-	a/	230
101	City of Clarendon	240	Feb. 17, 1941	323	83	6.6	30	268	27	27	.2	a/	234
106	W. A. Bailey	130	May 4, 1942	314	54	6.8	60	256	30	36	.3	a/	164
108	L. O. Christie	160	do.	291	72	14	19	244	30	33	-	a/	239
109	Civil Aeronautics Authority	200	do.	266	70	13	13	250	33	11	-	a/	228

a/ Nitrate less than 20 parts per million.

b/ Magnesium less than 3 parts per million.

c/ Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 44.

Partial analyses of water from wells and springs in Donley County--Continued
Results are in parts per million

Well c/ /	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO ₃)	Sul- phate (SO ₄)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃ (calc.)
114	W. Thornberry	190	May 4, 1942	311	80	15	16	220	22	65	-	a/	264
115	do.	200	do.	269	65	14	18	220	26	35	-	a/	219
120	Harry Blair	-	May 9, 1942	241	56	9.0	25	220	23	17	-	a/	176
122	M. S. Leaverell	220	May 8, 1942	225	69	9.2	3.5	214	26	10	.1	a/	211
129	M. Norwood	219	do.	405	108	21	7.6	177	59	115	.2	a/	358
141	A. B. Ivey	-	do.	180	58	5.6	3.2	171	15	14	-	a/	168
142	Mrs. B. W. Chamber- lain	-	Apr. 3, 1941	214	64	6.8	11	232	10	8.0	-	a/	189
143	H. A. Harrison	164	May 8, 1942	328	56	11	56	256	30	46	.4	a/	187
145	Heckle Starks	32	Feb. 19, 1941	502	108	12	57	366	39	24	-	a/	317
149	W. P. A. test	75	May 10, 1941	655	138	5.8	92	250	144	152	-	a/	369
151	do.	57	do.	231	-	-	-	195	27	21	-	a/	-
154	do.	32	Apr. 21, 1941	468	35	26	116	415	51	32	3.6	a/	196
155	do.	38	do.	954	154	20	158	232	260	248	-	a/	468
156	Memphis Cotton Oil Co.	60	Feb. 19, 1941	272	72	14	13	256	27	20	.2	a/	239
158	M. A. Wisdom	21	May 7, 1941	266	-	-	-	268	25	7.0	-	a/	-
160	School Dist. No. 2	30	Feb. 19, 1941	308	72	13	29	275	31	28	.2	a/	233
164	M. A. Turner	22	May 7, 1941	324	-	-	-	305	31	19	-	a/	-
165	W. L. Lewis	100	do.	1,430	310	29	130	311	525	240	.0	a/	893
166	W. P. A. test	26	Apr. 7, 1941	2,518	406	102	329	427	750	720	.7	a/	1,433
167	do.	17	do.	741	141	25	101	464	124	110	-	a/	455
169	Mrs. Laura Taylor	-	May 7, 1941	192	24	30	9.7	226	13	4.0	-	a/	183
171	Odos Caraway	57	do.	245	-	-	-	256	14	10	-	a/	-
176	J. C. Purdue	112	May 8, 1942	491	88	5.6	89	299	100	61	.3	a/	243
179	G. E. Benson	42	do.	3,148	594	177	103	183	2,151	32	.7	a/	2,214
180	H. L. Devenport	82	May 1, 1942	218	60	6.8	13	207	11	9.0	-	a/	179
201	Will Yake	-	May 6, 1942	206	55	8.0	16	232	5	5.0	.6	a/	170
204	J. L. McMurtry	-	do.	293	86	15	.7	256	59	5.5	-	a/	279
209	C. F. Weaver	-	do.	971	156	97	24	275	462	94	.0	a/	790
211	Herman Hunt	-	do.	232	48	21	13	244	11	16	-	a/	208
214	C. S. Carpenter	120	do.	356	105	10	16	238	20	88	-	a/	306

a/ Nitrate less than 20 parts per million.

b/ Magnesium less than 3 parts per million.

c/ Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 44.

Partial analyses of water from wells and springs in Donley County--Continued

Results are in parts per million

Well c/	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO ₃)	Sul- phate (SO ₄)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃ (calc.)
217	W. D. Van Eaton Est.	-	May 6, 1942	318	66	5.6	50	275	41	17	.8	a/	188
222	L. A. Kalka	45	do.	3,547	650	196	151	128	2,310	173	.0	a/	2,431
224	W. Fowler	-	do.	2,700	606	89	72	55	1,884	16	1.2	a/	1,880
231	E. V. Quattlebaum	100	May 28, 1942	253	-	-	-	244	20	16	-	a/	-
237	W. P. A. test	58	May 16, 1941	277	57	3.4	46	195	27	48	.4	a/	157
239	J. S. Hall	140	May 13, 1941	223	57	12	11	207	31	10	.3	a/	192
247	Mrs. A. J. Akers	130	May 16, 1941	377	80	14	33	220	132	10	.0	a/	259
258	J. C. Doneghy	-	May 15, 1941	305	-	-	-	256	25	38	-	a/	-
274	City of Hedley	100	June 13, 1941	338	-	-	-	329	35	12	-	a/	-
288	Fred M. Finch	Spring	Mar. 21, 1941	219	55	b/	30	226	12	9.0	.4	a/	146
299	W. P. A. test	32	Apr. 9, 1941	204	56	8.3	12	207	14	12	-	a/	175
305	State Highway Dept.	Spring	Apr. 17, 1941	273	56	16	30	268	13	25	.6	a/	205
308	W. P. Dial	100	do.	2,703	576	91	112	146	1,827	24	.9	a/	1,816
309	W. P. A. test	47	Apr. 15, 1941	1,091	183	98	14	122	669	66	.5	a/	860
310	W. P. Dial	76	Apr. 17, 1941	504	46	54	69	336	74	96	.5	a/	338

a/ Nitrate less than 20 parts per million.

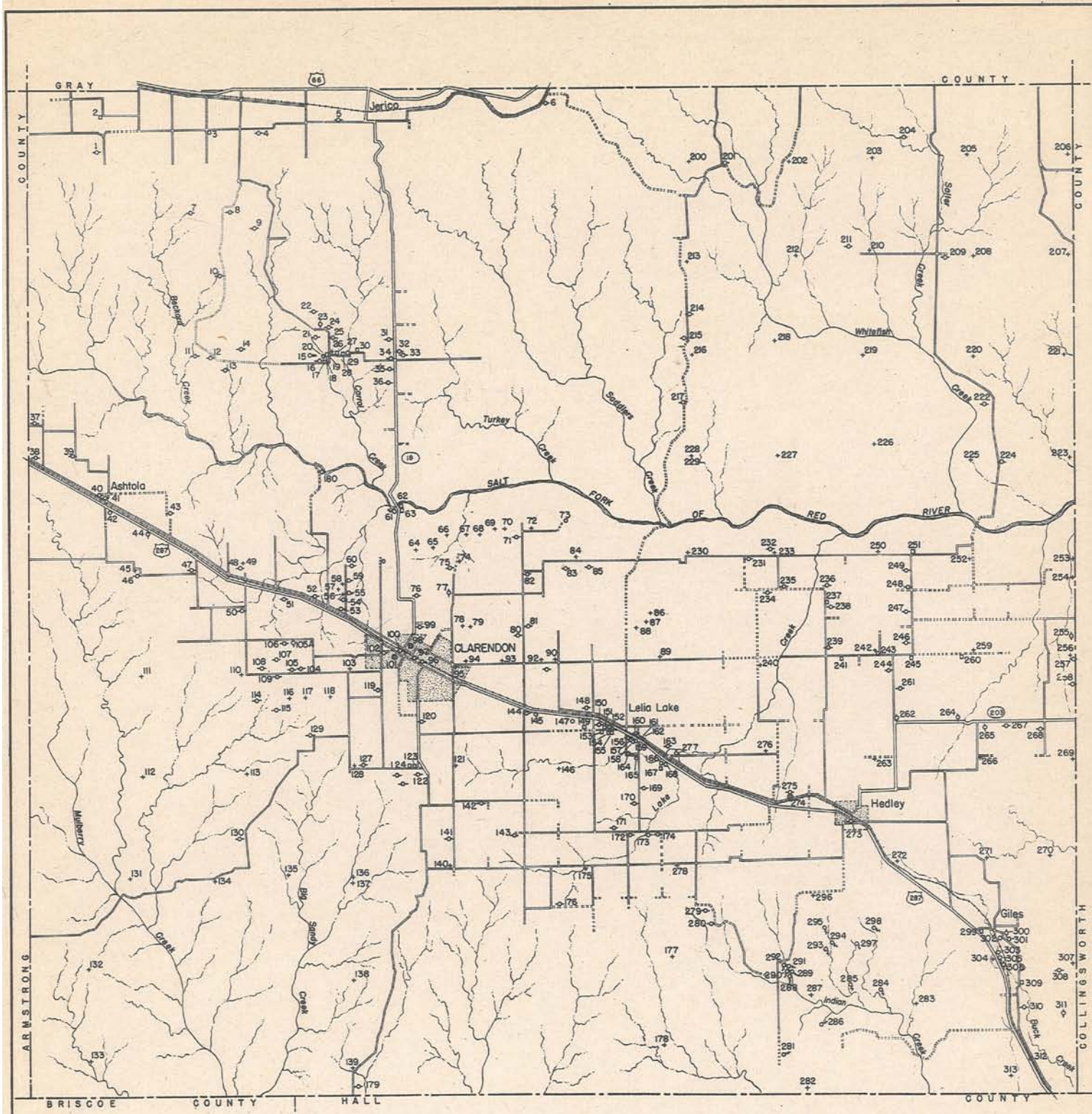
b/ Magnesium less than 3 parts per million.

c/ Analyses of water from selected wells and springs are given in milligram equivalents per liter on page 44 .

Chemical Analyses--Continued
Results are in milligram equivalents per liter

Well	Owner	Depth of well (ft.)	Date of collection	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	Mrs. L. Angel	300+	June 4, 1941	2.24	1.48	0.64	3.80	0.25	0.28	.03	-	3.72
6	Humble Pipe Line Co.	200+	May 7, 1942	3.36	1.46	.11	3.50	.52	.87	-	.04	4.82
21	Fontayne Elmore	74	May 27, 1941	1.72	1.28	.99	3.40	.25	.34	-	-	3.00
32	Smith Bros. Co.	130	Mar. 8, 1941	2.78	1.66	1.20	4.00	.81	.79	.04	-	4.44
40	Memphis Cotton Oil Co.	105	Apr. 2, 1941	4.12	1.16	.90	4.30	.81	1.07	-	-	5.28
48	M. D. Wood	115	May 4, 1942	2.64	.66	2.34	4.50	.54	.28	-	.32	3.30
59	Mrs. -- Leonard	87	May 1, 1942	4.72	1.04	.62	3.60	1.001	1.69	.03	.06	5.76
71	Mrs. T. K. Stone	101	May 28, 1941	3.72	1.28	.85	4.50	.48	.87	.015	-	5.00
101	City of Clarendon	240	Feb. 17, 1941	4.14	.54	1.32	4.40	.57	.76	.01	.27	4.68
114	W. Thornberry	190	May 4, 1942	4.02	1.26	.69	3.60	.46	1.83	-	.08	5.28
122	M. S. Leaverell	220	May 8, 1942	3.46	.76	.15	3.50	.54	.28	.01	.04	4.22
143	H. A. Harrison	164	do.	2.80	.94	2.44	4.20	.62	1.30	.02	.04	3.74
165	W. L. Lewis	100	May 7, 1941	15.50	2.36	5.64	5.10	10.94	6.77	.0	.69	17.86
171	Odos Caraway	57	do.	-	-	-	4.20	.29	.28	-	-	-
179	G. E. Benson	42	May 8, 1942	29.72	14.56	4.47	3.00	44.81	.90	.04	.0	44.28
201	Will Yake	-	May 6, 1942	2.74	.66	.70	3.80	.10	.14	.03	.03	3.40
211	Herman Hunt	-	do.	2.40	1.76	.57	4.00	.23	.45	-	.05	4.16
217	W. D. Van Eaton Est.	-	do.	3.30	.46	2.16	4.50	.85	.48	.04	.05	3.76
222	L. A. Kalka	45	do.	32.52	16.10	6.55	2.10	48.13	4.88	.0	.06	48.62
237	W. P. A. test	58	May 16, 1941	2.86	.28	2.00	3.20	.57	1.35	.02	-	3.14
258	J. C. Doneghy	-	May 15, 1941	-	-	-	4.20	.52	1.07	-	-	-
274	City of Hedley	100	June 13, 1941	-	-	-	5.40	.73	.34	-	-	-
288	Fred M. Finch	Spring	Mar. 21, 1941	2.76	.16	1.30	3.70	.25	.25	.02	-	2.92
305	State Highway Dept.	Spring	Apr. 17, 1941	2.82	1.28	1.31	4.40	.27	.71	.03	-	4.10

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— EXPLANATION —

- WELL WITH HAND PUMP, BUCKET OR BAILER
- ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
- WELL WITH PUMPING PLANT—5 HORSE POWER OR LARGER
- ◇ UNUSED WELL
- SPRING
- + SEISMOGRAPH TEST HOLE
- TEST WELL DRILLED BY W.P.A. LABOR



**MAP OF DONLEY COUNTY, TEXAS
SHOWING WATER WELLS AND SPRINGS**



FIELD WORK BY
WAYNE G. CHRISTIAN
PROJECT SUPERINTENDENT
W.P.A. PROJECT 17572

BASE COMPILED FROM
HIGHWAY PLANNING SURVEY COUNTY ROAD MAP
AND FIELD NOTES

TEXAS BOARD OF
WATER ENGINEERS
IN COOPERATION WITH
U. S. GEOLOGICAL SURVEY