

TEXAS BOARD OF WATER ENGINEERS

C. S. Clark, Chairman
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GAINES 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

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GAINES COUNTY, TEXAS

By

G. H. Cromack

Introduction

This publication contains records of 163 wells and 1 spring, drillers' logs of 27 wells, and results of chemical analyses of water from 134 wells, one spring and two lakes in Gaines County, Texas. It also includes a map, showing the locations of the wells, springs, and lakes, each one being given a number on the map corresponding to the number assigned to it in the records.

The field data were obtained by G. H. Cromack in October and November 1945, in connection with a state-wide program of ground-water investigations in Texas conducted by the State Board of Water Engineers in cooperation with the United States Department of the Interior, Geological Survey.

The water analyses were made by E. W. Lohr, W. W. Hastings, and J. H. Rowley, chemists of the Quality of Water Division of the Federal Geological Survey. The results of the analyses, which relate only to the mineral constituents in the water and not to its sanitary character, are tabulated in parts per million.

The publication should serve as a guide to land owners, officials of industrial plants, well drillers, and others who need ground water information for different parts of Gaines County. A limited number of copies 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.

Records of wells and springs in Gaines County, Texas

Well	Distance from Seminole	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
1	11 miles south	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, blk. A-22	J. C. Simmons	--	Old	63	6
2	7 $\frac{1}{2}$ miles south	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, blk. A-21	Carrol Cobb	--	1937	100	8
3	do.	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 19, blk. A-21	Mrs. E. H. Miller	--	Old	85	6
4	5 $\frac{1}{2}$ miles south	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 3 blk. A-20	J. E. Stanley	--	Old	80	4
5	3 $\frac{1}{2}$ miles south	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, blk. A-20	E. L. Allison	--	Old	75	6
6	In Seminole	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 189, blk. G	Mrs. G. Jones	--	Old	90	6
6A	1 $\frac{1}{2}$ miles southeast	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 160, blk. G	Andrew Fasken	Amerada Petroleum Co.	1937	128	5-3.16
7	In Seminole	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 189, blk. G	J. M. Parker	--	Old	98	6
8	2 $\frac{1}{2}$ miles north	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 187, blk. G	Thos. S. Riley	--	1917	86	6
9	6 $\frac{1}{2}$ miles northeast	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 152, blk. G	S. H. Gilbreath	--	Old	87	6
Distance from Seagraves							
10	6 $\frac{1}{2}$ miles southwest	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 148, blk. G	Cox Estate	--	1920	88	6
11	4 miles southwest	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 146, blk. G	J. K. Hill	--	1920	94	6
12	In Seagraves	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 10, blk. C-34	P. & S.F. R.R. Co. well No. 1	--	Old	194	8
Distance from Wasson							
13	12 $\frac{1}{2}$ miles west	NW cor. sec. 7, blk. A-7	E. H. Jones	Claude Tatum	1945	145	12
14	13 miles west	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 17, blk. A-7	do.	--	Old	80	6
15	11 $\frac{1}{2}$ miles west	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 18, blk. A-7	do.	--	1944	105	6
16	9 miles southwest	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 30, blk. AX	do.	--	1910	60	6
17	12 $\frac{1}{2}$ miles southwest	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 23, blk. A-8	H. P. Black	--	1909	68	6
18	11 miles southwest	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 27, blk. AX	Mrs. B. M. Ancell	--	--	63	5
19	7 $\frac{1}{2}$ miles southwest	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 490, blk. G	E. H. Jones	Shell Oil Co.	1944	97	5
20	6 miles west	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 494, blk. G	do.	--	Old	80	6
21	4 $\frac{1}{2}$ miles southwest	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 454, blk. G	do.	--	1931	90	8

a/ Pump or lift: T, turbine; C, cylinder; B, bucket.
 Power: E, electric; G, gasoline engine; Tr, tractor; W, windmill; H, hand.
 Number indicates horsepower.

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below land surface (ft.)	Date of measurement			
1	0.3	46.8	June 26, 1937	C,W	D,S	
2	0.5	56.3	do.	C,W	S	Casing: 100 feet of 8-inch; perforated from 50 to 100 feet. Formerly supplied water for drilling
3	1.4	68.6	do.	C,W	D,S	Water reported in <u>oil test.</u> "quicksand".
4	5.5	34.8	June 25, 1937	None	N	
5	0.5	44.6	do.	C,W	D,S	
6	0.4	56.6	do.	C,W	D	
6A	0.7	40.6	Aug. 8, 1938	C,W	S	Formerly supplied water for drilling <u>oil test.</u> Deepened in 1939 to 160 feet.
7	0	43.7	June 25, 1937	None	N	
8	1.4	74.7	Aug. 12, 1939	C,W	S	
9	1.5	66.2	Apr. 27, 1938	C,H	D,S	
10	1.2	80.9	June 25, 1937	None	N	
11	1.2	84.9	do.	C,W	D,S	
12	1.5	73.3	do.	None	N	This well and well 38 formerly supplied railroad. See log.
13	0.5	33.4	Nov. 16, 1945	None	N	To be used for irrigation. See log.
14	--	c/40	Nov. 13, 1945	C,W	S	
15	--	c/30	do.	C,W	S	
16	--	c/30	do.	C,W	S	
17	--	c/60	Oct. 26, 1945	C,W	D	Water reported in honey-comb rock from 60 to 68 feet.
18	--	49 ⁺	do.	C,W	D	
19	--	c/40	Nov. 10, 1945	C,W	D,S	Casing: 97 feet of 5-inch. Water reported from sand at 97 feet.
20	--	c/35	Nov. 13, 1945	C,W	D,S	
21	1.0	55.4	Nov. 10, 1945	C,W	D,S	

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

c/ Water level reported by driller or owner.

Records of wells and springs in Gaines County--Continued

Well	Distance from Wasson	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
22	1½ miles southwest	NW¼NE¼ sec. 381, blk. G	Atlantic Pipe Line Co.	--	1937	100±	6
22A	2 miles west	SE¼NE¼ sec. 54, blk. AX	E. C. Brand	Amerada Petroleum Co.	1937	4,484	--
23	1 mile northwest	SE¼NW¼ sec. 49, blk. AX	Continental Oil Co.	Carl B. King	1945	100	7
24	2 miles southeast	SE¼SE¼ sec. 42, blk. AX	Humble Pipe Line Co. well No. 1	--	1937	127	6
25	do.	do.	Humble Pipe Line Co. well No. 2	Caraway Drilling Co.	1945	142	6
26	4½ miles south	SE¼NW¼ sec. 376, blk. G	E. H. Jones	--	1935	70	6
27	6 miles southeast	SW¼SW¼ sec. 313, blk. G	W. S. Wimberly	--	1941	80	8
28	7 miles southeast	NW¼SW¼ sec. 279, blk. G	Rex Long	--	--	100	6
29	do.	SE¼NE¼ sec. 271, blk. G	W. D. Hart	--	1921	87	6
30	6½ miles east	NW cor. sec. 241, blk. G	Claude Cheairs	--	1943	114	8
	Distance from Seagraves						
31	8½ miles west	NE¼SE¼ sec. 24, blk. C-35	J. S. Goodall	--	Old	102	6
32	5½ miles west	SE cor. sec. 21, blk. C-35	-- Scott	--	1945	112	6
33	3¾ miles southwest	SW¼NW¼ sec. 6, blk. C-34	Columbia Carbon Co.	D. S. McDonald	1945	204	10
34	6½ miles southwest	NE¼NW¼ sec. 207, blk. G	N. W. Willard	--	Old	116	6
35	7½ miles southwest	NE¼SE¼ sec. 205, blk. G	H. M. McKee	Claude Hudson	1926	140	6
36	8½ miles southwest	NE¼NE¼ sec. 181, blk. G	A. L. Duff, Jr.	Bill Hester	--	106	7
37	7 miles south	SE¼NE¼ sec. 91, blk. G	P. R. Stewart	--	1925	110	6
38	In Seagraves	NW¼SW¼ sec. 10, blk. C-34	P. & S. F. R. R. Co.	--	1922	150	--
39	do.	SW¼NW¼ sec. 10, blk. C-34	R. V. Oberholtzer	H. & M. Water Well Co.	1940	180	8
40	do.	NE¼NW¼ sec. 10, blk. C-34	City of Seagraves	J. E. Stokes	1929	192	10
41	do.	do.	City of Seagraves	do.	1929	145	10
42	do.	do.	City of Seagraves	W. A. Willis	1938	183	10
43	do.	do.	City of Seagraves	Paul Pierson	1941	180	12

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below land surface (ft.)	Date of measurement			
22	--	--	--	T.E. 5	D,S	Supplies pipe line camp.
22A	--	--	--	None	N	Oil test. See log.
23	--	c/ 75	July 25, 1945	C,W	D,S	Casing: 100 feet of 7-inch; bottom 25 feet perforated.
24	--	c/ 40	July --, 1945	T.E. 2	D,Ind	Casing: 127 feet of 6-inch; bottom 20 feet perforated. Yield 37 gal-
25	--	c/ 65	Aug. --, 1945	C,G. 10	D,Ind	Casing: 122 feet of 6-inch. See log. 1000 gallons a minute.
26	--	c/ 30	Nov. 18, 1945	C,W	S	
27	--	c/ 65	Nov. 9, 1945	C,W	D,S	
28	--	c/ 80	Nov. 11, 1945	C,W	D,S	
29	1.5	70.5	Nov. 6, 1945	C,W	D,S	
30	1.0	97.0	do.	C,W	D,S	
31	--	c/ 80	June --, 1945	C,W	D,S	
32	1.5	93.0	Nov. 6, 1945	C,W	D,S	
33	--	c/ 98	Apr. --, 1945	T.E. 10	Ind	Casing: 189 feet of 10-inch; bottom 39 feet perforated. Drawdown reported 29 feet after pumping 110 gallons a minute for 48 hours. See log.
34	--	c/ 95	Nov. 6, 1945	C,W	D,S	
35	--	c/110	do.	C,W	D,S	
36	0.5	79.0	Aug. 18, 1938	C,W	D,S	
37	--	--	--	C,W	D,S	
38	--	c/ 76.5	1922	None	N	See log.
39	--	--	--	C,E. 1/2	P	Casing: 119 feet of 8-inch. Supplies apartment hotel. See log.
40	--	c/ 75	Aug. 9, 1938	T.E. 3	P	Casing: 90 feet of 10-inch. (Yield measured 60 gallons a minute) This well and wells 41, 42, and 42, supply the City of Seagraves. Tem-
41	--	c/ 75	do.	T.E. 5	P	Casing: 94 feet of 10-inch. Yield reported 150 gallons a minute. See log. perature 68° F. See log.
42	0.5	81.3	do.	T.E. 15	P	Casing: 11 feet of 10-inch. Yield reported 200 gallons a minute. See log.
43	--	--	--	T.E. 15	P	Casing: 12 feet of 12-inch. Yield reported 200 gallons a minute. See log.

Records of wells and springs in Gaines County--Continued

Well	Distance from Seagraves	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
44	1 mile northwest	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, blk. C-34	J. D. VanSickle	--	1921	95	6
45	1 $\frac{1}{2}$ miles east	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 12, blk. C-34	O. M. McDonald	--	Old	123	--
46	3 $\frac{1}{2}$ miles east	SW $\frac{1}{4}$ NE $\frac{1}{2}$ sec. 7, blk. C-33	Ed. McDaniel	Paul Pierson	1943	138	6
47	4 miles east	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 8, blk. C-33	Santa Fe Ry Co.	Fred Buchanan	1937	96	6
48	6 miles east	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, blk. C-33	S. B. McDonald	--	Old	80	6 5'8
49	11 miles southeast	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 110, blk. H	A. A. Williamson	Ralph Bone	1937	94	6
50	do.	do.	do.	The Pure Oil Co.	--	4,124	6
51	10 $\frac{1}{2}$ miles southeast	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 90, blk. H	Mrs. J. D. Cowling	--	--	65	6
52	8 $\frac{1}{2}$ miles southeast	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 11, blk. G	Loop School	--	1920	90	6
53	9 $\frac{1}{2}$ miles southeast	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 10, blk. G	W. S. Smith	Paul Pierson	1942	62	7
54	10 $\frac{1}{2}$ miles southeast	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, blk. G	D. D. Banto	J. M. Paine	1928	78	--
	Distance from White City						
55	7 miles northwest	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 7, blk. G	R. L. Mizner	--	Old	82	6
56	5 $\frac{1}{2}$ miles northwest	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 5, blk. H	Paul Freeman, et al.	--	--	100±	--
57	4 $\frac{1}{2}$ miles northwest	NW cor. sec. 2, blk. G	Texas Highway Department	Paul Pierson	1942	167	7
58	do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, blk. C-31	Ashmore School	--	--	112	6
59	4 $\frac{1}{2}$ miles north	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, blk. C-31	Sarah E. Wilson	--	--	150	6
60	1 mile southeast	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, blk. C-30	J. J. Lane, et al.	--	--	52	6
61	$\frac{3}{4}$ mile west	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 9, blk. H	Thos. S. Riley	--	--	42	8
62	4 miles southwest	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 9, blk. H	Sanderson and Rogers	Bill Dulen	1924	80	6
63	8 $\frac{1}{2}$ miles southwest	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 81, blk. H	A. G. Sawyer	-- Parkison	1912	60	6
64	7 $\frac{1}{2}$ miles southwest	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, blk. C-30	M. C. Lindsay, et al.	Hucony Oil & Gas Co.	1926	3,255	6
65	8 miles southwest	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 16, blk. C-30	Texas Land & Mortgage Co.	--	--	81	6
66	6 miles southwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 12, blk. C-30	B. F. Gilbert	W. E. Taylor	1932	44	7
67	5 $\frac{1}{2}$ miles southwest	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, blk. --	Mrs. Edith Johnson	--	--	Spring	--

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below land surface (ft.)	Date of measurement			
44	1.0	86.4	June 25, 1937	C,W	D,S	Drawdown 3 feet after pumping 2 gallons a minute for 2 hours.
45	0.5	117.0	Aug. 18, 1938	C,W	D,S	
46	--	--	--	C,W	S	Casing: 138 feet of 6-inch; bottom 20 feet slotted. Sand reported from 118 to 138 feet.
47	0.8	82.5	Aug. 18, 1938	C,W	D,S	
48	--	c/ 64	do.	C,W	D,S	
49	--	c/ 65	Aug. 9, 1939	C,W	D,S	See log.
50	--	--	--	None	N	Oil test. See log.
51	--	c/ 41	Aug. 18, 1938	C,W	D,S	
52	--	c/ 60	Aug. 9, 1938	C,W	D,P	
53	--	--	--	C,W	D,S	See log.
54	0.5	52.7	Aug. 17, 1938	C,W	D,S	
55	2.0	72.8	Aug. 17, 1938	C,W	S	
56	--	--	--	C,W	D,S	
57	--	--	--	None	N	Formerly used for highway construction. Filled and abandoned. See log.
58	0	98.0	Aug. 17, 1938	C,W	D,P	
59	1.0	126.5	do.	C,W	S	
60	1.4	49.6	Aug. 13, 1938	C,W	S	
61	4.0	7.6	do.	C,W	S	
62	--	c/ 55	Aug. 5, 1938	C,W	D,S	
63	0	36.1	Aug. 9, 1938	C,W	D,S	
64	--	--	--	None	N	Oil test. See log.
65	0.3	56.8	Aug. 12, 1938	C,W	S	
66	0	37.2	do.	C,W	S	
67	--	--	Aug. 11, 1938	Flows	S	Located on shore of Cedar Lake, at southwestern end.

Records of wells and springs in Gaines County--Continued

Well	Distance from White City	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
68	5 miles southwest	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 2, blk. --	Mrs. Edith Johnson	--	--	Lake	--
69	5 $\frac{1}{2}$ miles south	SW $\frac{1}{4}$ SW $\frac{1}{4}$ lab. 12, lge. 283	W. E. Taylor	W. E. Taylor	1934	160	8
70	8 miles southeast	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 136, blk. M.	R. H. Little	--	--	124	6
Distance from Seminole							
71	23 $\frac{1}{2}$ miles east	SW $\frac{1}{4}$ SW $\frac{1}{4}$ lab. 5, lge. 282	Mrs. F.M. Weaver	--	--	100+	6
72	26 miles east	NW $\frac{1}{4}$ SW $\frac{1}{4}$ lab. 10, lge. 281	J. E. Phillips	-- Rush	1924	110	6
73	do.	SW $\frac{1}{4}$ SW $\frac{1}{4}$ lab. 27, lge. 281	R. W. Carter	--	1923	90	--
74	25 miles east	SE $\frac{1}{4}$ NE $\frac{1}{4}$ lab. 21, lge. 286	B. W. Koger	--	Old	125	--
75	23 $\frac{1}{2}$ miles east	SE $\frac{1}{4}$ NW $\frac{1}{4}$ lab. 15, lge. 285	G. W. Reves	--	--	94	8
76	19 $\frac{1}{2}$ miles east	SE $\frac{1}{4}$ NW $\frac{1}{4}$ lab. 9, lge. 292	M. S. Doss	--	Old	70+	6
77	16 $\frac{1}{2}$ miles southeast	NE $\frac{1}{4}$ NE $\frac{1}{4}$ lab. --, lge. 301	Birge-Forbes Land Co.	Randolph Bros.	1930	113	6
78	14 miles east	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 1, blk. C-43	do.	--	Old	112	6
79	16 $\frac{1}{2}$ miles east	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 26, blk. C-30	M. S. Doss	--	1915	97	6
80	16 miles east	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 72, blk. H	Birge-Forbes Land Co.	--	Old	104	6
81	17 $\frac{1}{2}$ miles east	NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 23, blk. C-30	M. S. Doss	--	Old	120	5
82	19 miles east	NE $\frac{1}{4}$ SW $\frac{1}{4}$ lab. 13, lge. 293	do.	--	--	Lake	--
83	do.	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 18, blk. C-30	Louis Stauffer	Walter Henderson	1932	125	6
84	16 $\frac{1}{2}$ miles east	NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 70, blk. H	R. Whitaker	--	--	65	6
85	17 $\frac{1}{2}$ miles east	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 50, blk. H	L. R. Wood	--	--	60	6
86	15 $\frac{1}{2}$ miles east	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 94, blk. H	Wm. P. Sawyer	--	--	48	6
87	12 $\frac{1}{2}$ miles northeast	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 20, blk. G	Mrs. Joe Sherman	--	1900	74	7
88	15 $\frac{1}{2}$ miles east	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 77, blk. H	Thos. S. Riley	--	--	168	6
89	14 miles east	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 98, blk. H	Orr Bee Bone	Ralph Bone	1937	195	4
90	13 miles east	SW $\frac{1}{4}$ S $\frac{1}{2}$ sec. 102, blk. H	J. H. Adams Est.	--	--	94	6
91	11 miles east	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 124, blk. H	J. H. Moseley	--	1928	82	6
92	9 $\frac{1}{2}$ miles east	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 44, blk. G	G. R. Wright	-- Preston	1928	94	6

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below land surface (ft.)	Date of measurement			
68	--	--	Aug. 5, 1938	--	--	Water sample from Cedar Lake. See map and table of analyses.
69	0.7	93.1	Aug. 11, 1938	C,W	S	
70	1.5	110.0	do.	C,W	S	
71	--	--	--	C,W	S	
72	--	c/75±	Aug. 4, 1938	C,W	D,S	
73	1.0	83.6	Aug. 10, 1938	C,W	D,S	
74	1.0	76.7	do.	C,W	S	
75	--	--	--	None	N	
76	--	--	--	C,W	S	
77	0.5	107.3	Aug. 10, 1938	C,W	D,S	
78	1.0	72.6	Aug. 4, 1938	C,W	D,S	
79	0.5	57.6	do.	C,W	S	
80	--	--	--	C,W	D,S	
81	0.5	54.4	Aug. 4, 1938	C,W	D,S	
82	--	--	do.	--	--	Water sample from McKenzie Lake. See map and table of analyses.
83	0.5	105±	Aug. 8, 1938	C,W	D,S	
84	1.0	59.2	do.	C,W	D,S	
85	0.8	45.8	Aug. 12, 1938	C,W	D,S	
86	0.3	44±	Aug. 9, 1938	C,W	D,S	
87	1.0	55.5	do.	C,W	D,S	
88	1.0	110.3	do.	C,W	S	
89	--	c/106	do.	C,W	D,S	See log.
90	1.5	62±	Aug. 4, 1938	C,W	D,S	
91	0	65.4	do.	C,H	D	
92	0.5	86±	Aug. 8, 1938	C,W	D,S	

Records of wells and springs in Gaines County--Continued

Well	Distance from Seminole	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
93	6 miles east	SE $\frac{1}{4}$ SE $\frac{1}{4}$ blk. G sec. 99.	O. H. Hartin	Ross Bowers	1918	100	6
94	7 miles northeast	SW $\frac{1}{4}$ SW $\frac{1}{4}$ blk. G sec. 75.	Lon Palmer	Bob Cook	1945	111	3
95	7 $\frac{1}{2}$ miles northeast	NE $\frac{1}{4}$ SE $\frac{1}{4}$ blk. G sec. 95.	H.J. Witaker	--	1941	105	6
96	6 miles north	SW $\frac{1}{4}$ NW $\frac{1}{4}$ blk. G sec. 168.	Preston Florence	-- Speck	1930	110	6
97	2 $\frac{1}{2}$ miles east	NE $\frac{1}{4}$ NW $\frac{1}{4}$ blk. G sec. 130.	J. B. Thompson	--	--	96	6
98	3 $\frac{1}{2}$ miles southeast	NW $\frac{1}{4}$ SW $\frac{1}{4}$ blk. G C-144 sec. 9.	Everett King	-- Ryden	1915	76	6
99	1 $\frac{3}{4}$ miles southeast	NW $\frac{1}{4}$ NW $\frac{1}{4}$ blk. G sec. 160.	A. Fasken	Amerada Petroleum Co.	1937	5,343	7
100	In Seminole	SW $\frac{1}{4}$ SW $\frac{1}{4}$ blk. G sec. 189.	Gaines County	--	1906	150±	6
101	do.	NW $\frac{1}{4}$ SE $\frac{1}{4}$ blk. G sec. 189.	City of Seminole well No. 1	--	1939	145	10 $\frac{1}{2}$, 8
102	do.	SE $\frac{1}{4}$ SW $\frac{1}{4}$ blk. G sec. 189.	City of Seminole well No. 2	J. E. Stokes	1940	188	12
103	do.	NW $\frac{1}{4}$ SW $\frac{1}{4}$ blk. G sec. 189.	City of Seminole well No. 3	Gibbons and Taylor	1945	250	13- 3/8, 10 $\frac{1}{2}$
104	do.	SE $\frac{1}{4}$ NW $\frac{1}{4}$ blk. G sec. 189.	City of Seminole	W. A. Willis	1945	181	7
105	2 $\frac{1}{2}$ miles west	NE $\frac{1}{4}$ NW $\frac{1}{4}$ blk. G sec. 222.	M. D. Wimberly	--	1937	90	6
106	4 $\frac{1}{2}$ miles southwest	NW $\frac{1}{4}$ NW $\frac{1}{4}$ blk. G sec. 224.	Arvil Fincher	--	1940	74	4
107	6 $\frac{1}{2}$ miles west	SE cor. SE $\frac{1}{4}$ sec. 296, blk. G	Randy Whitaker	-- Smith	1942	63	6
108	4 $\frac{1}{2}$ miles west	NE $\frac{1}{4}$ SE $\frac{1}{4}$ blk. G sec. 262.	Mary D. Stewart	--	Old	74	6
109	3 $\frac{1}{2}$ miles northwest	NE $\frac{1}{4}$ NE $\frac{1}{4}$ blk. G sec. 229.	Phillips Petroleum Co. well No. 1	D. L. McDonald	1944	241	12
110	do.	do.	Phillips Petroleum Co. well No. 2	do.	1944	197	12
111	do.	do.	Phillips Petroleum Co. well No. 3	do.	1945	200	10

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below land surface (ft.)	Date of measurement			
93	--	c/ 60	Aug. 8, 1938	C, W	D, S	
94	1.0	84.7	Nov. 16, 1945	None	N	
95	0.8	85.2	do.	C, W	D, S	
96	--	c/ 70	Aug. 18, 1938	C, W	D, S	
97	0.3	83.0	do.	C, W	S	
98	1.0	52.0	Aug. 16, 1938	C, W	D, S	
99	--	--	--	None	N	Oil test. See log.
100	--	c/ 60	Aug. 18, 1938	None	N	Filled and abandoned in 1945.
101	--	c/ 56	Nov. 8, 1939	T, E, 20	P	Casing: 78 feet of 10 $\frac{1}{2}$ -inch; 67 feet of 8-inch; bottom 20 feet of 8-inch, slotted. Drawdown reported 47 feet after pumping 145 gallons a minute for 100 hours. See log.
102	--	c/ 120	Nov. 11, 1945	T, E, 25	P	Yield reported 200 gallons a minute. This well and wells 101 and 103
103	0.4	102.8	Oct. 22, 1945	T, G, 65	P	Casing: [supply city of Seminole. 115 feet of 13-3/8-inch; 125 feet of 10 $\frac{1}{2}$ -inch; bottom 100 feet of 10 $\frac{1}{2}$ -inch, slotted. Measured drawdown 55 feet after pumping 275 to 300 gallons a minute for 110 hours.
104	0.9	94.8	Oct. 23, 1945	T, E, 15	P	Supplies city recreation park. See log.
105	--	c/ 45	Oct. 24, 1945	C, W	D, S	
106	0.7	50.3	Oct. 29, 1945	C, W	D, S	
107	--	--	--	C, W	D, S	
108	--	c/ 50	Oct. 24, 1945	C, W	D, S	
109	--	c/ 68	Feb. 1944	T, E, 10	Ind	Casing: 241 feet of 12-inch; perforated from 76 to 103, and 143 to 170 feet. Drawdown reported 21 feet after pumping 170 gallons a minute for 48 hours. See log.
110	--	c/ 72	do.	T, E, 10	P	Casing: 197 feet of 12-inch; perforated from 97 to 117, and 177 to 197 feet. Yield reported 60 gal-
111	--	c/ 70	Sept. 1945	T, E, 5	Ind	Casing: [ons a minute. See log. 196 feet of 10-inch; perforated from 91 to 135, and 175 to 185 feet. Drawdown reported 21 feet after pumping 60 gallons a minute for 48 hours. See log.

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

Well	Distance from Seminole	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
112	8 miles northwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.247, blk. G	-- Shipman	--	1944	116	6
113	7 $\frac{1}{2}$ miles northwest	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.283, blk. G	A. G. Dulin	--	1945	154	8
114	9 $\frac{1}{2}$ miles northwest	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.318, blk. G	Coy Patton	--	--	68	8
115	9 $\frac{1}{2}$ miles west	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.331, blk. G	W. C. Garvin	--	1942	80	3
116	10 $\frac{1}{2}$ miles west	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.360, blk. G	M. S. Moss	--	Old	62	10
117	12 miles southwest	NW cor. SW $\frac{1}{4}$ sec. 364, blk. G	J. A. Sparks	Eubank Bros.	1906	81	6
118	13 $\frac{1}{2}$ miles west	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.405, blk. G	L. L. McNew	-- Barton	1945	110	10
119	12 $\frac{1}{2}$ miles northwest	NE cor. sec.390, blk. G	-- King	--	--	60	6
120	16 miles southwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.438, blk. G	L. E. Robinson	--	Old	103	6
121	15 $\frac{1}{2}$ miles west	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.441, blk. G	T. B. Fulkerson	Sam Christopher	1944	101	8
122	16 miles west	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.469 blk. G	do.	--	1942	85	6
123	19 miles west	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, blk. AX	L. A. Tedford	L.A. Tedford	1945	46	6
124	20 $\frac{1}{2}$ miles northwest	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 9, blk. A 11	Mrs. E. E. Lane	--	--	79	6
125	20 miles west	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, blk. A 9	Homer Wenston	--	1943	63	8
126	24 miles west	NW cor. sec. 5, blk. A 10	H. L. Tipton	--	1935	70	6
127	24 miles southwest	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 17, blk. A 12	G. R. Brunley	--	Old	68	5
128	21 miles southwest	NW cor. sec. 20, blk. A 12	L. E. Robinson	--	Old	77	6
129	19 miles southwest	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 8, blk. A 27	W. T. Price	--	Old	76	6
130	20 miles southwest	NE cor. sec. 14, blk. A 27	Nick Alley	--	Old	70	6
131	21 miles southwest	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 24, blk. A 27	do.	--	Old	100	6
132	18 $\frac{1}{2}$ miles southwest	NW cor. sec. 20, blk. A 27	do.	--	Old	102	6
133	19 miles southwest	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 1, blk. A 31	do.	--	Old	92	8
134	16 miles southwest	NE cor. sec. 24, blk. A 25	do.	--	Old	100±	6
135	15 miles southwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, blk. A 25	Hugh Wristin	--	Old	110	5
136	14 miles southwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 4, blk. A 23	do.	--	Old	56	6
137	13 $\frac{1}{2}$ miles southwest	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 11, blk. A 25	do.	--	Old	70	6

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below land surface (ft.)	Date of measurement			
112	0	101.4	Nov. 8, 1945	C,W	D,S	
113	--	c/ 60	Feb. 1945	T,Tr, 65	Irr	Casing: 107 feet of 8-inch; bottom 75 feet perforated. Yield reported
114	--	c/ 55	Nov. 8, 1945	C,W	D,S	165 gallons a minute.
115	0.9	68.0	Oct. 25, 1945	C,W	D,S	
116	0	52±	Oct. 29, 1945	C,W	D,S	
117	0.5	58.3	do.	C,W	D,S	
118	0.4	74.1	Oct. 23, 1945	T,G, 65	Irr	Irrigated 3 acres of vegetables in 1945.
119	--	--	--	C,W	D,S	
120	0	89.7	Oct. 30, 1945	C,W	D,S	
121	--	c/ 48	Dec. 1944	C,W	S	Owner reports water sands from 62 to 101 feet, and caliche at 101 feet.
122	--	c/ 49	June 1944	C,W	D,S	
123	--	c/ 27	Feb. 1945	C,W	D,S	Located in bed of draw.
124	0.4	64±	Oct. 26, 1945	C,W	S	
125	1.6	51.5	Oct. 25, 1945	C,W	D,S	
126	--	55	do.	C,W	D,S	
127	--	--	--	C,W	S	
128	0.5	56.0	Oct. 30, 1945	C,W	S	
129	2.0	60.2	do.	C,W	S	
130	--	c/ 50	do.	C,W	S	
131	--	c/ 80	do.	C,W	S	
132	0.5	82.4	do.	C,W	D,S	
133	--	--	--	C,W	S	
134	--	--	--	C,W	S	
135	--	c/ 90	Nov. 1, 1945	C,W	S	
136	1.0	39.4	do.	C,W	S	Located in bed of old lake.
137	--	c/ 60	do.	C,W	D,S	

Records of wells and springs in Gaines County--Continued

Well	Distance from Seminole	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
138	15 miles southwest	NW cor. sec. 13, blk. A 25	Nick Alley	--	Old	85	5- 3/16
139	13 miles southwest	NE-NE-NE sec. 3, blk. A 13	T. K. Sparks	--	--	74	6
140	11 miles southwest	NW cor. SW- sec. 8, blk. AX	M. S. Doss	Eubank Bros.	Old	67	8
141	8-1/2 miles southwest	SE-SE-SE sec. 9, blk. A 24	W. T. Caswell	--	Old	63	6
142	5-1/2 miles southwest	NW-NW-NW sec. 8, blk. A 21	P. J. Stanley	--	1942	80	6
143	9-1/2 miles southwest	SW-SW-SW sec. 25, blk. A 21	L. B. Vaughn	--	--	113	6
144	11-1/2 miles southwest	NW-NE-NE sec. 11, blk. A 23	Frank Williamson	--	1942	80	6
145	11 miles south	NW-NW-NW sec. 13, blk. A 22	W. B. Reynold	--	Old	100±	6
146	9-1/2 miles south	NW-NW-NW sec. 9, blk. A 22	C. E. Robbins	Amerada Petroleum Co.	1937	4,940	7
147	13 miles south	NE-SE-SE sec. 22, blk. A 22	State Highway Department	Paul Pierson	1942	104	7
148	11 miles southeast	NW-SW-SW sec. 9, lge. 306	Everett King	--	Old	70	6
149	9-1/2 miles south	NW-NW-NW sec. 7, blk. A 20	Charlie Thompson	--	Old	69	6
150	7-1/2 miles southeast	SW-NW-NW sec. 5, lge. 305	Everett King	--	1920	90	6
151	5-1/2 miles southeast	NE-SW-SW sec. 6, blk. C 44	James Stanloy	--	--	104	6
152	11-1/2 miles southeast	NW-SW-SW lab. 11, lge. 303	R. A. Hughes	--	--	111	5
153	13 miles southeast	SE-SE-SE lab. 2, lge. 308	Birge-Forbes Land Co.	--	--	100±	5
154	15 miles southeast	NE-NE-NE lab. 15, lge. 301	R. C. Pattie	Walter Henderson	1927	111	6
155	16-1/2 miles southeast	NW-NW-NW sec. 5, lge. 300	do.	--	1912	105	--
156	19 miles southeast	NE-NW-NW sec. 4, lge. 299	Brack Mitchell	--	--	60	8
157	20-1/2 miles southeast	SE-SE-SE lab. 8, lge. 298	H. C. Shumaker	--	--	57	7
158	23 miles southeast	NE-NW-NW sec. 27, blk. A 19	W. H. Badgott	P. E. Pace	1938	16	--
159	21 miles southeast	NW-NW-NW lab. 1, lge. 296	H. Giesocke	Amon G. Carter, et al	1938	5,800	9- 5/8
160	22-1/2 miles southeast	SW-SW-SW lab. 8, lge. 291	Joe Buie	--	--	93	6
161	25 miles southeast	NW-NE-NE lab. 12, lge. 289	J. B. Chilton, Jr.	James Taylor	1938	196	6
162	26 miles southeast	SE-NE-NE lab. 8, lge. 288	do.	-- Lovejoy	1916	120	5

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift <u>a/</u>	Use of water	Remarks
		Below land surface (ft.)	Date of measurement			
138	2.2	73.8	Oct. 31, 1945	C,W	S	
139	0.2	64.3	Oct. 29, 1945	C,W	D,S	
140	0.6	59.0	do.	C,W	S	
141	0.6	40±	Nov. 1, 1945	C,W	S	
142	0.7	44.2	Nov. 16, 1945	C,W	D,S	
143	2.5	78.4	Nov. 1, 1945	C,W	S	
144	--	--	--	C,W	D	
145	--	<u>c/</u> 65	Nov. 1, 1945	C,W	D,S	
146	--	--	--	None	N	Oil test. See log.
147	--	--	--	None	N	Formerly supplied 70 gallons a minute for highway construction. Filled and abandoned. See log.
148	0.5	59.6	Aug. 16, 1938	C,W	S	
149	1.0	48.4	do.	C,W	S	
150	--	--	--	C,W	S	
151	0.4	50.0	Aug. 16, 1938	C,W	D,S	
152	1.0	105.7	Aug. 10, 1938	C,W	D,S	
153	--	--	--	C,W	S	
154	0.5	84.1	Aug. 10, 1938	C,W	S	
155	0.2	91.0	do.	C,W	D,S	
156	0.8	27.1	Aug. 15, 1938	C,W	S	
157	0.6	32.4	do.	C,W	S	
158	1.0	13.7	do.	B,H	S	
159	--	--	--	None	N	Oil test. Top of red beds at 356 feet.
160	0.8	86.8	Aug. 10, 1938	C,W	D,S	
161	0.5	96.7	Aug. 15, 1938	None	N	Water reported highly mineralized.
162	0	107.6	do.	C,W	S	

Records of wells and springs in Gaines County--Continued

Well	Distance from Seminole	Section or labor and block or league	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
163	3 miles northwest	NE cor. sec. 228, blk. G	Mrs. S. J. Averitt	Harry Adams Corp.	1936	4,915	--
164	12 miles southwest	NE ¹ / ₄ NE ¹ / ₂ sec. 397, blk. G	J. A. Sparks, et al	McElreath & Suggett, et al	1932	4,845	--
165	25 miles southwest	NE ¹ / ₄ NE ¹ / ₂ sec. 19, blk. A 28	W. W. Barber	Elevins and Sloan	1937	4,775	--

a/ Pump or lift: T, turbine; C, cylinder; B, bucket.

Power: E, electric; G, gasoline engine; Tr, tractor; W, windmill; H, hand.

Number indicates horsepower.

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below land surface (ft.)	Date of measurement			
163	--	--	--	--	--	Oil test. See log.
164	--	--	--	--	--	Do.
165	--	--	--	--	--	Do.

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

c/ Water level reported by driller or owner.

Table of Drillers' logs, Gaines County, Texas

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
<u>Well 12</u>			<u>Well 25</u>		
P. & S. F. R.R. Co., well no. 1, in Seagraves.			Humble Pipe Line Co., well no. 2, 2 miles southeast of Wasson. Caraway Drilling Co., Driller.		
Sandy soil	4	4	Surface soil	5	5
Caliche	12	16	Caliche	10	15
Sand and boulders	71	87	Sand	15	30
Sand	4	91	Sand rock	15	45
Sand and rock	64	155	Soft sand rock	15	60
Yellow clay	33	188	Sand	20	80
Hard rock	4	192	Sand, water	10	90
			Crystallized sand rock	5	95
			Sand rock	15	110
			Sand, water	10	120
			Hard sand rock	10	130
			Sand, water	12	142
<u>Well 13</u>			<u>Well 33</u>		
E. H. Jones, 12 ¹ / ₃ miles west of Wasson. Claude Tatum, driller			Columbia Carbon Co., 3 ² / ₃ miles southwest of Seagraves. D. L. McDonald, driller		
Surface soil	10	10	Clayey sand	10	10
Caliche	20	30	Caliche	22	32
Hard rock	5	35	Sand	23	55
Sand, water	45	80	Sandstone	15	70
Sand rock	50	130	Hard rock	20	90
Quicksand	15	145	Sand	24	114
			Sand and small gravel	6	120
			Sand rock	20	140
			Hard sand	45	185
			Sand and gravel	5	190
			Red bed	14	204
<u>Well 22A, partial log</u>			<u>Well 38</u>		
E. C. Brand, 2 miles west of Wasson. Amerada Petroleum Corp., driller			P. & S. F. R.R. Co., well no. 2, in Seagraves.		
Sand	60	60	Sandy soil	6	6
Hard streaks	21	81	Caliche	6	12
Sand	2	83	Sand and boulders	57	69
Hard streaks	4	87	Hard rock	10	79
Sand	7	94	Boulders	4	83
Hard streaks	2	96	Sand, water	6	89
Hard rock	1	97	Sand and boulders	61	150
Hard streaks	13	110			
Hard shale	1	111			
Sand, water	29	140			
Sand	35	175			
Blue shale	20	195			
Hard streaks	23	218			
Sand and hard streaks	17	235			
Red bed	-	235			
TOTAL DEPTH		4484			

Table of Drillers' logs, Gaines County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 39</u>		
R. V. Oberholtzer, in Seagraves. H. & M. Water Well Co., driller.		
Soil	5	5
Caliche	30	35
Sand, dry	43	78
Lime	4	82
Sand, water	37	119
Lime	13	132
Sand, water	48	180

	Thickness (feet)	Depth (feet)
<u>Well 40</u>		
City of Seagraves, well no. 1, in Seagraves. J. E. Stokes, driller.		
Sandy soil	4	4
Caliche	12	16
Boulders and sand	71	87
Sand	4	91
Sand and rock	64	155
Yellow clay	33	188
Hard rock	4	192

	Thickness (feet)	Depth (feet)
<u>Well 41</u>		
City of Seagraves, well no. 2, in Seagraves. J. E. Stokes, driller.		
Sandy soil	6	6
White rock	12	18
Sand and boulders	57	75
Hard rock	10	85
Boulders	4	89
Sand, water	6	95
Sand and boulders	50	145

	Thickness (feet)	Depth (feet)
<u>Well 42</u>		
City of Seagraves, well no. 3, in Seagraves. W. A. Willis, driller.		
Sandy clay	7	7
Caliche	13	20
Sand	25	45
Hard sandstone	10	55
Hard sand	38	93
Soft sand, water	52	145
Hard sand rock	10	155
Sand, water	17	172

	Thickness (feet)	Depth (feet)
<u>Well 42 -- Continued</u>		
Gravel, water	6	178
Hard sand rock	4	182
Shale	1	183

	Thickness (feet)	Depth (feet)
<u>Well 49</u>		
A. A. Williamson, 11 miles southeast of Seagraves. Ralph Bone, driller.		
Caliche, sand and clay	35	35
Sand	25	60
Rock	10	70
Sand, water	8	78
Rock	6	84
Yellow sand, water	8	92
Yellow clay	2	94

	Thickness (feet)	Depth (feet)
<u>Well 50, partial log</u>		
A. A. Williamson, 11 miles southeast of Seagraves. The Pure Oil Co., driller.		
Sand and caliche	60	60
Hard sand	115	175
Sand, water	15	190
Red bed	-	190
TOTAL DEPTH		4124

	Thickness (feet)	Depth (feet)
<u>Well 53</u>		
W. S. Smith, 9 ¹ / ₂ miles southeast of Seagraves. Paul Pierson, driller.		
Soil	4	4
Caliche	16	20
Sand, dry	20	40
Lime	8	48
Sand, water	14	62

	Thickness (feet)	Depth (feet)
<u>Well 57</u>		
Texas Highway Dept., 4 ¹ / ₂ miles northwest of White City. Paul Pierson, driller.		
Soil	6	6
Caliche	4	10
Clay	60	70
Caliche	6	76
Sand, dry	44	120

(Continued on next page)

Table of Drillers' Logs, Gaines County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 57 -- Continued</u>		
Sand, water	35	155
Gravel, water	8	163
Red clay	4	167

	Thickness (feet)	Depth (feet)
<u>Well 64</u>		
M. C. Lindsay et al., $7\frac{1}{2}$ miles southwest of White City. Huconey Oil & Gas Co., driller.		
Cellar	10	10
White lime	54	64
Broken lime	30	94
Shale	10	104
Black slate	21	125
Sand, water	37	162
Red bed	22	184

	Thickness (feet)	Depth (feet)
<u>Well 89</u>		
Orr Bee Bone, 14 miles east of Seminole. Ralph Bone, driller.		
Mixed clay and caliche	35	35
Sand	25	60
Lime	40	100
Slaty material	50	150
Blue clay	27	177
Sand	18	195

	Thickness (feet)	Depth (feet)
<u>Well 99</u>		
A. Faskon, $1\frac{1}{2}$ miles southeast of Seminole. Amerada Petroleum Corp., driller.		
Collar	18	18
Caliche	32	50
Sand	13	63
Hard streaks	7	70
Sand and hard streaks	8	78
Lime streaks	20	98

	Thickness (feet)	Depth (feet)
<u>Well 101</u>		
City of Seminole, well no. 1, in Seminole		
Top soil	2	2
Caliche and sand	21	23
Hard sand and caliche	40	63
Soft yellow clay	7	70
Hard gray sandy clay	28	98
Soft brown lime	3	101
Hard sandy lime	11	112
Sandy yellow clay	5	117
Fine and medium-grained sand, water	26	143
Blue clay	2	145

	Thickness (feet)	Depth (feet)
<u>Well 103</u>		
City of Seminole, well no. 3, in Seminole. Gibbons and Taylor, driller.		
Soil	2	2
Caliche and sand rock	30	32
Fine-grained, buff-colored sand	13	45
Fine-grained, buff-colored sand with hard caliche	7	52
Medium to fine-grained light brown sand and hard caliche	28	80
Medium to fine-grained dark brown sand	30	110
Hard rock	25	135
Yellow clay	5	140
Fine-grained light yellow sandy clay	14	154
Fine-grained light yellow sand	28	182
Medium to fine-grained dark brown sand	58	240
Sticky pink clay	10	250

Table of Drillers' Logs, Gaines County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 109</u>		
Phillips Petroleum Co., well no. 1, 3 $\frac{1}{2}$ miles northwest of Seminole, D. L. McDonald, driller.		
Soil	2	2
Caliche	13	15
Sand	22	37
Clay	8	45
Sand	6	51
Hard rock	7	58
Red sand	11	69
Hard rock	1	70
Sand, water	38	108
Rock	22	130
Sand rock	13	143
Clay and sand, dry	45	188
Red bed	53	241

	Thickness (feet)	Depth (feet)
<u>Well 110</u>		
Phillips Petroleum Co., well no. 2, 3 $\frac{1}{2}$ miles northwest of Seminole, D. L. McDonald, driller.		
Soil	2	2
Caliche	36	38
Sand	27	65
Rock	5	70
Sand	5	75
Hard rock	5	80
Soft rock	10	90
Sand	20	110
Rock and clay	44	154
Clay and sand, dry	34	188
Red bed	8	196

	Thickness (feet)	Depth (feet)
<u>Well 111</u>		
Phillips Petroleum Co., well no. 3, 3 $\frac{1}{2}$ miles northwest of Seminole, D. L. McDonald, driller.		
Soil	3	3
Sand and caliche	55	58
White rock	17	75
Sand	25	100
White rock	22	122
Yellow sandy clay	2	124
Clayey sand	60	184
Red bed	16	200

	Thickness (feet)	Depth (feet)
<u>Well 146, partial log</u>		
C. E. Robbins, 9 $\frac{1}{2}$ miles south of Seminole. Lmerada Petroleum Co., driller.		
Cellar	18	18
Surface and sand	112	130

	Thickness (feet)	Depth (feet)
<u>Well 146, partial log--Continued</u>		
Sand rock	10	140
Shale and hard streaks	40	180
Red bed	207	387
TOTAL DEPTH		4940

	Thickness (feet)	Depth (feet)
<u>Well 147</u>		
Texas Highway Department, 13 miles south of Seminole. Paul Pierson, driller.		
Soil	20	20
Caliche	30	50
Sand, water	3	53
Gravel and caliche	41	94
Red clay	10	104

	Thickness (feet)	Depth (feet)
<u>Well 163, partial log</u>		
Mrs. S. J. Averitt, 3 miles northwest of Seminole. Harry Adams Corp., driller.		
Cellar	12	12
Caliche	28	40
Flint rock	18	58
Broken flint	17	75
Sand and hard streaks	50	125
Red bed	-	125
TOTAL DEPTH		4915

	Thickness (feet)	Depth (feet)
<u>Well 164</u>		
J. A. Sparks, et al., 12 miles southwest of Seminole. McElreath & Suggett, et al., driller.		
Soil and caliche	56	56
Hard lime	6	62
Sharp-grained sand	13	75
Quicksand, water	100	175
Sand rock	5	180
Quicksand and gravel	10	190
Red bed	105	295

	Thickness (feet)	Depth (feet)
<u>Well 165, partial log</u>		
W. W. Barber, 25 miles southwest of Seminole. Blevins and Sloan, driller.		
Sand and caliche	40	40
Caliche and sand rock	5	45
Sand, water	71	116
Red bed	-	116
TOTAL DEPTH		4775

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

Analyzed at The University of Texas under the direction of W. W. Hastings, Chemist, 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.)
6A	Andrew Fasken	128	Aug. 8, 1948	401	34	26	78	140	74	120	-	a/	191
8	Thos. S. Riley	86	Aug. 13, 1933	1,156	-	-	-	262	333	290	-	a/	-
9	S. H. Gilbreath	87	Oct. 23, 1945	-	-	-	-	344	b/140	126	-	3.8	c/502
11	J. K. Hill	94	do.	-	-	-	-	252	b/340	181	-	9.0	c/720
13	E. H. Jones	145	Nov. 16, 1945	454	46	20	50	128	122	49	-	5.9	197
14	do.	80	do.	-	-	-	-	190	b/95	71	-	11	c/262
15	do.	105	do.	-	-	-	-	214	b/180	74	-	7.0	c/345
16	do.	60	do.	-	-	-	-	156	b/130	149	-	8.7	c/285
17	H. P. Black	68	Oct. 26, 1945	884	94	48	98	275	216	134	-	7.6	432
18	Mrs. B. M. Ancel	63	do.	-	-	-	-	185	b/120	82	-	6.5	c/322
19	E. H. Jones	97	Nov. 10, 1945	-	-	-	-	226	b/80	68	-	5.6	c/315
20	do.	80	Nov. 13, 1945	-	-	-	-	195	b/170	76	-	9.2	c/315
21	do.	90	Nov. 10, 1945	640	63	42	88	314	117	99	-	4.1	330
22	Atlantic Pipe Line Co.	100 ⁺	do.	-	-	-	-	237	b/100	71	-	5.0	c/382
23	Continental Oil Co.	100	do.	-	-	-	-	184	b/125	72	-	3.5	c/338
24	Humble Pipe Line Co. Well No. 1	127	Nov. 5, 1945	-	-	-	-	233	b/100	66	-	3.5	c/390
25	Humble Pipe Line Co. Well No. 2	142	do.	510	57	36	58	232	103	80	-	3.9	290
26	E. H. Jones	70	Nov. 8, 1945	950	138	66	99	217	282	251	-	7.4	616
27	W. S. Wimberly	80	Nov. 9, 1945	-	-	-	-	257	b/100	66	-	4.1	c/345
28	Rex Long	100	Nov. 8, 1945	-	-	-	-	252	b/90	68	-	6.6	c/368
29	W. D. Hart	87	Nov. 6, 1945	-	-	-	-	294	b/75	66	-	6.8	c/405
31	J. S. Goodall	102	Nov. 7, 1945	-	-	-	-	270	b/220	107	-	2.0	c/450
32	-- Scott	112	Nov. 6, 1945	-	-	-	-	271	b/360	100	-	3.2	c/510
33	Columbia Carbon Co.	204	do.	781	72	75	57	251	247	103	-	2.8	488
34	N. W. Willard	116	do.	-	-	-	-	235	b/180	124	-	1.5	c/555
35	H. M. McKee	140	do.	-	-	-	-	273	b/190	86	-	1.8	c/435

a/Less than 20 parts per million.
b/By turbidity

c/ Determined by soap method.

Partial analyses of water from wells, springs and lakes in Gaines 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.)
36	A. L. Duff, Jr.	106	Aug. 18, 1945	724	-	-	-	275	228	108	-	a/	-
37	P. R. Stewart	110	Nov. 16, 1945	-	-	-	-	247	b/240	235	-	4.0	c/795
39	R. V. Overholtzer	180	Nov. 9, 1945	-	-	-	-	280	b/240	134	-	3.6	c/555
40	City of Seagraves well No. 1	192	May 23, 1944	863	61	90	102	261	265	162	2.8	8.0	522
41	City of Seagraves well No. 2	145	Aug. 8, 1938	757	74	79	80	256	257	136	4.8	a/	508
42	City of Seagraves well No. 3	183	Oct. 24, 1945	851	60	87	90	262	249	142	5.2	2.8	507
43	City of Seagraves well No. 4	180	do.	958	62	92	94	273	258	148	5.2	5.9	533
44	J. D. Van Sickle	95	Nov. 9, 1945	-	-	-	-	259	b/115	83	-	7.6	c/442
45	O. M. McDonald	123	Aug. 13, 1938	664	81	66	59	256	200	132	-	a/	476
46	Ed. McDonald	138	Nov. 9, 1945	-	-	-	-	270	b/210	136	-	0.5	c/532
47	Santa Fe Ry. Co.	96	Aug. 18, 1938	855	-	-	-	256	252	134	-	a/	-
48	S. D. McDonald	80	do.	872	-	-	-	305	224	195	-	a/	-
49	A. A. Williamson	94	Aug. 9, 1938	1,124	100	106	153	421	292	255	-	a/	685
51	Mrs. J. D. Cowling	65	Aug. 18, 1938	796	73	73	108	336	244	130	-	a/	480
52	Loop School	90	Aug. 9, 1938	1,443	107	136	194	317	565	285	-	a/	829
54	D. D. Banto	78	Aug. 17, 1938	1,097	118	89	140	323	333	238	-	2.0	660
55	R. L. Mizner	82	do.	1,100	-	-	-	317	317	250	-	a/	-
56	Paul Freeman, et.al.	100±	do.	1,072	-	-	-	360	383	150	-	a/	-
58	Ashmore School	112	do.	954	87	66	162	329	265	208	-	a/	491
59	Sarah E. Wilson	150	do.	852	83	74	105	305	248	164	-	a/	510
60	J. J. Lane, et.al.	52	Aug. 13, 1938	7,754	362	489	1,550	195	3,500	1,740	3.0	a/	2,912
61	Thos. S. Riley	42	do.	1,101	64	52	267	403	300	220	-	a/	372
62	Sanderson & Rogers	80	Aug. 5, 1938	1,195	74	73	242	311	452	188	5.4	a/	485
63	A. G. Sawyer	60	Aug. 9, 1938	1,337	-	-	-	305	382	345	-	a/	-
65	Texas Land and Mortgage Co.	81	Aug. 12, 1938	1,100	111	124	388	293	93	225	-	a/	787
66	B. F. Gilbert	44	do.	6,544	268	383	1,353	488	3,426	850	-	2.4	2,246
67	Mrs. Edith Johnson	Spring	Aug. 11, 1938	6,146	143	276	1,592	732	2,666	1,100	8.5	a/	1,490
68	do.	Lake	Aug. 5, 1938	95,210	1,182	2,275	30,101	11,024	998	36,000	-	a/	12,305
69	W. E. Taylor	160	Aug. 11, 1938	5,925	651	358	934	171	1,378	2,520	-	a/	3,100

a/ Less than 20 parts per million

b/ By turbidity

c/ Determined by soap method.

Partial analyses of water from wells, springs and lakes in Gaines 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.)
70	R. H. Little	124	Aug. 11, 1938	2,525	287	138	374	195	985	645	1.2	a/	1,284
71	Mrs. F. M. Weaver	100±	Aug. 8, 1933	3,367	157	180	789	390	990	1,050	4.4	a/	1,132
72	J. E. Phillips	110	Aug. 4, 1938	1,727	186	143	205	244	573	488	2.5	a/	1,053
73	R. W. Carter	90	Aug. 10, 1938	1,632	142	164	190	268	507	490	-	a/	1,031
74	B. W. Koger	125	do.	4,794	318	316	907	256	1,497	1,630	-	a/	2,096
77	Birge-Forbes Land	113	do.	1,082	16	9	389	604	261	110	-	a/	76
78	do.	112	Aug. 4, 1938	715	36	43	174	378	169	102	5.4	a/	266
80	do.	104	do.	1,232	38	35	365	458	372	176	4.7	a/	242
81	M. B. Doss	120	do.	1,810	174	201	131	415	432	605	-	a/	1,259
82	do.	Lake	do.	101,731	2,088	3,260	30,752	110	19,152	46,400	-	a/	13,620
83	Louis Stauffer	125	Aug. 8, 1933	1,228	20	10	435	500	285	228	3.7	a/	91
84	R. Whitaker	65	do.	4,355	-	-	-	275	1,462	1,310	-	a/	-
85	L. R. Wood	60	Aug. 12, 1933	2,493	164	193	420	336	931	615	-	a/	1,204
86	Wm. P. Sawyer	48	Aug. 9, 1938	1,468	113	106	247	397	495	280	5.0	22	730
87	Mrs. Joe Sherman	74	do.	1,132	109	109	142	488	281	226	-	26	723
88	Thos. S. Riley	168	do.	770	19	7	270	402	160	116	-	a/	74
89	Orr B. Bone	195	do.	1,128	13	7	405	506	312	142	-	a/	59
90	J. H. Adams Est.	94	Aug. 4, 1933	869	-	-	-	342	242	152	-	a/	-
91	J. H. Moseley	82	do.	936	83	76	144	343	250	202	5.4	a/	532
92	G. R. Wright	94	Aug. 8, 1933	733	91	73	89	293	199	179	4.4	a/	525
93	O. H. Hartin	100	do.	1,033	103	102	124	378	241	255	4.6	a/	678
95	H. J. Whitaker	105	Nov. 15, 1945	-	-	-	-	363	b/120	102	-	0.8	c/480
96	Preston Florence	110	Aug. 18, 1933	1,058	109	100	121	343	309	230	-	a/	682
97	J. B. Thompson	96	do.	715	-	-	-	342	151	128	-	a/	-
98	Everett King	76	Aug. 16, 1933	576	70	43	79	281	135	104	-	a/	352
100	Gaines County	150±	Aug. 13, 1938	970	121	66	130	250	252	265	3.3	a/	576
101	City of Seminole well No. 1	145	Nov. 7, 1945	610	57	45	79	265	123	89	4.4	8.3	328
102	City of Seminole well No. 2	188	Nov. 15, 1945	732	65	54	90	266	173	109	4.3	6.4	384
103	City of Seminole well No. 3	250	Oct. 24, 1945	636	66	45	81	265	133	38	4.3	6.6	334
105	M. D. Wimberly	90	do.	-	-	-	-	236	d/115	67	-	6.2	e/375

a/ Less than 20 parts per million.

b/ By turbidity.

c/ Determined by soap method.

Partial analyses of water from wells, springs and lakes in Gaines 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.)
106	Arvil Fincher	74	Oct. 29, 1945	-	-	-	-	290	b/106	87	-	5.6	c/472
107	Randy Whitaker	63	Oct. 24, 1945	-	-	-	-	258	b/220	153	-	6.6	c/600
108	Mary D. Stewart	74	do.	-	-	-	-	298	b/110	95	-	17	c/472
109	Phillips Petroleum Co. well No. 1	241	Nov. 3, 1945	568	52	38	67	249	117	72	-	4.3	286
110	Phillips Petroleum Co. well No. 2	197	do.	-	-	-	-	242	b/360	180	-	5.1	c/578
111	Phillips Petroleum Co. well No. 3	200	do.	-	-	-	-	248	b/90	86	-	3.4	c/390
112	-- Shipman	116	Nov. 8, 1945	-	-	-	-	250	b/150	111	-	2.8	c/428
114	Coy Patton	68	do.	-	-	-	-	257	b/130	107	-	7.4	c/390
115	W. C. Garvin	30	Oct. 25, 1945	-	-	-	-	251	b/95	96	-	4.3	c/412
116	M. S. Doss	62	Oct. 29, 1945	-	-	-	-	29	b/100	91	-	4.6	c/360
117	J. A. Sparks	81	do.	-	-	-	-	194	b/50	44	-	5.1	c/278
118	L. L. McNew	110	Oct. 23, 1945	467	55	34	37	221	88	57	-	5.3	278
119	-- King	60	Nov. 8, 1945	-	-	-	-	221	b/130	56	-	7.0	c/352
120	L. E. Robinson	103	Oct. 30, 1945	-	-	-	-	291	b/80	48	-	3.8	c/360
121	T. B. Fulkerson	101	Nov. 5, 1945	-	-	-	-	224	b/90	60	-	11.1	c/292
122	do.	35	Oct. 25, 1945	-	-	-	-	225	b/85	76	-	3.6	c/368
123	L. A. Tedford	46	Oct. 26, 1945	-	-	-	-	253	b/100	55	-	5.2	c/390
124	Mrs. E. E. Lane	79	do.	-	-	-	-	204	b/120	77	-	3.8	c/375
125	Homer Wenston	63	Oct. 26, 1945	-	-	-	-	242	b/340	292	-	3.5	c/675
126	H. L. Tipton	70	do.	-	-	-	-	259	b/85	76	-	6.0	c/360
127	G. R. Brumley	68	Oct. 30, 1945	-	-	-	-	232	b/115	74	-	3.0	c/345
128	L. E. Robinson	77	Oct. 23, 1945	516	59	33	56	280	85	59	-	4.1	282
129	W. T. Price	76	Oct. 30, 1945	-	-	-	-	322	b/65	78	-	2.8	c/405
130	Nick Alley	70	do.	-	-	-	-	272	b/130	94	-	4.3	c/442
131	do.	100	do.	-	-	-	-	335	b/200	130	-	2.8	c/345
132	do.	102	do.	-	-	-	-	289	b/120	66	-	1.8	c/352
133	do.	92	Oct. 31, 1945	599	41	28	108	306	103	65	-	2.5	218
134	do.	100 [±]	do.	-	-	-	-	316	b/90	84	-	2.8	c/375
135	Hugh Wristin	110	Nov. 1, 1945	-	-	-	-	225	b/170	179	-	14	c/442
136	do.	56	do.	-	-	-	-	330	b/115	95	-	4.3	c/555

a/ Less than 20 parts per million.

b/ By turbidity.

c/ Determined by soap method.

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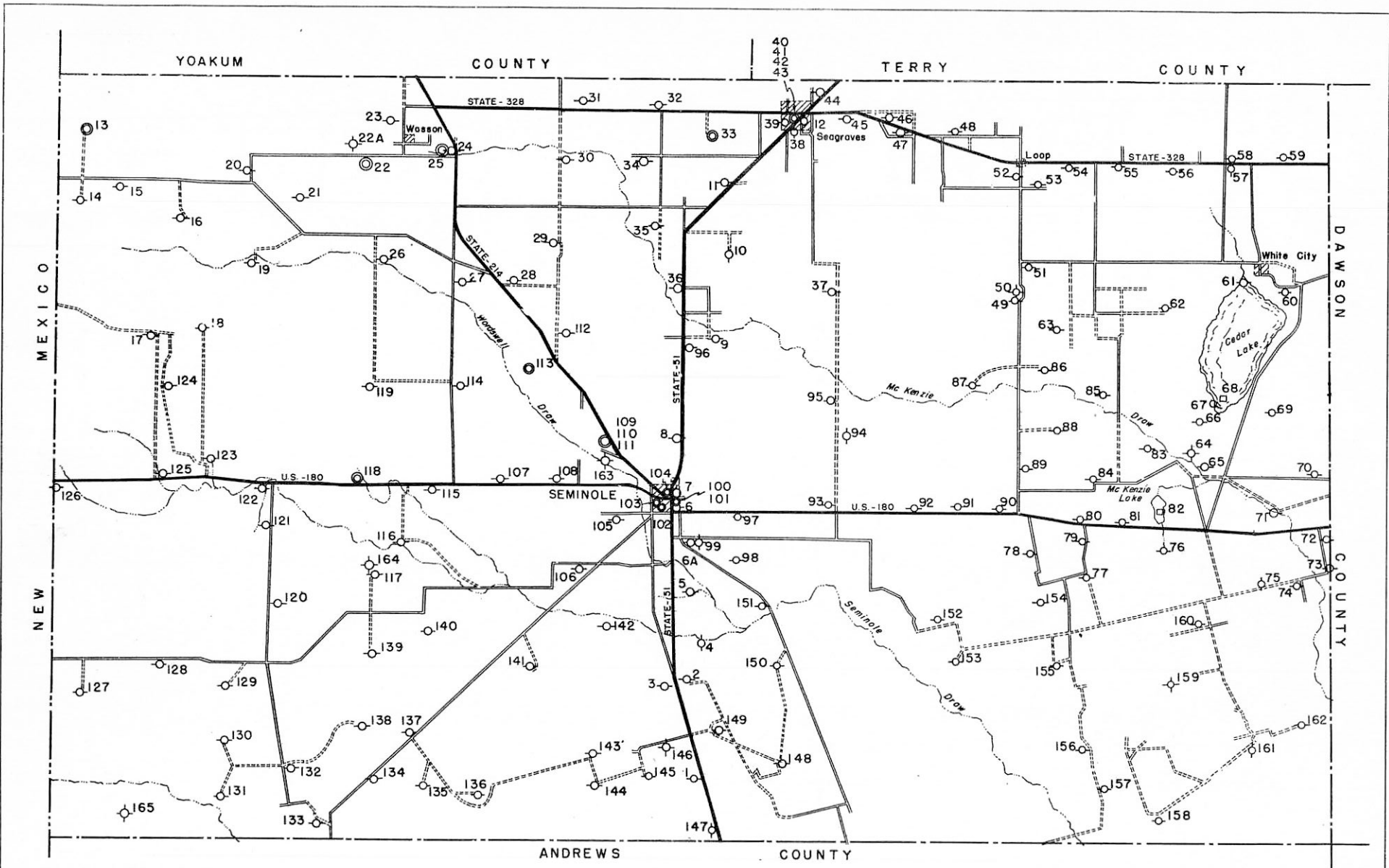
Partial analyses of water from wells, springs and lakes in Gaines County--Continued
(Results are in parts per million.)

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.)
137	Hugh Wristir	70	Nov. 1, 1945	-	-	-	-	395	b/170	147	-	15	c/532
133	Nick Alley	85	Oct. 31, 1945	-	-	-	-	219	b/ 95	71	-	7.0	c/285
139	T. K. Sparks	74	Oct. 29, 1945	-	-	-	-	217	b/ 55	54	-	8.8	c/315
140	M. S. Doss	67	do.	-	-	-	-	222	b/ 70	58	-	7.2	c/360
141	W. T. Caswell	63	Nov. 1, 1945	-	-	-	-	284	b/ 80	78	-	5.3	c/420
142	P. J. Stanley	80	Nov. 16, 1945	639	60	44	74	260	132	96	-	6.2	330
143	L. B. Vaughn	113	Nov. 1, 1945	630	64	44	60	242	140	88	-	5.6	340
144	Frank Williamson	80	do.	-	-	-	-	297	b/190	125	-	4.1	c/495
145	W. B. Reynold	100 ⁺	do.	-	-	-	-	247	b/ 90	50	-	5.2	c/300
148	Everett King	70	Aug. 16, 1938	512	-	-	-	329	108	57	-	a/	-
149	Charlie Thompson	69	do.	540	69	49	65	354	106	72	5.3	a/	375
150	Everett King	90	do.	933	121	66	112	311	254	192	-	35	576
151	James Stanley	104	do.	2,828	213	143	557	268	1,078	690	-	a/	1,118
152	R. A. Hughes	111	Aug. 10, 1938	931	107	92	125	329	253	270	-	a/	647
153	Birge-Forbes Land Co.	100 ⁺	do.	880	-	-	-	293	273	162	-	a/	-
154	R. C. Pattie	111	do.	920	76	70	167	390	175	240	-	a/	473
155	do.	105	do.	1,040	-	-	-	403	261	210	-	a/	-
156	Brack Mitchell	60	Aug. 15, 1938	1,318	96	90	253	458	354	290	-	a/	611
157	H. C. Schumaker	67	do.	2,428	114	96	614	647	756	440	-	90	679
158	W. H. Badgett	16	do.	5,303	601	348	583	171	2,868	673	2.4	139	2,934
160	Joe Buie	93	Aug. 10, 1938	943	44	37	257	427	250	150	-	a/	263
162	J. B. Chilton, Jr.	120	Aug. 15, 1938	2,977	219	237	477	342	978	885	-	a/	1,521

a/ Less than 20 parts per million.

b/ By turbidity.

c/ Determined by soap method.



EXPLANATION

- WELL WITH HANDPUMP, WINDMILL, OR SMALL POWER PUMP
- WELL WITH PUMPING PLANT- 5 HORSEPOWER OR LARGER
- UNUSED WELL
- ◇ TEST WELL FOR OIL OR GAS
- WATER SAMPLING POINT IN LAKE
- SPRING

MAP OF GAINES COUNTY, TEXAS
SHOWING WATER WELLS

SCALE



BASE COMPILED FROM
HIGHWAY PLANNING SURVEY MAP
AND FIELD NOTES

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