

# Texas Board of Water Engineers

C. S. Clark, Chairman  
John W. Pritchett, Member



## YOAKUM 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  
MAY 1945

TEXAS BOARD OF WATER ENGINEERS  
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By

G. H. Cromack

### Introduction

This publication contains records of 148 wells, drillers' logs of 44 wells and partial chemical analyses of water from 105 wells. It also includes a map on which the wells listed in the tables are shown, each well being given a number on the map corresponding to the number assigned to it in the tables.

The field data were obtained by the writer in October and November, 1944, 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 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 landowners, officials of industrial plants, well drillers and others who need ground water information for different parts of Yoakum 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 14, Texas.

Records of wells in Yoakum County, Texas

Well	Distance from Plains	Section and block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
1	18 miles northwest	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 47, blk. D	Ty Field	--	1901	125	4
2	16 $\frac{1}{2}$ miles northwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 59, blk. D	do.	Claude Tatum	1940	156	6
3	do.	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.107, blk. D	do.	do.	1944	120	6
4	15 miles northwest	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.120, blk. D	do.	--	1895	175	6
5	14 $\frac{1}{2}$ miles northwest	NE $\frac{1}{2}$ NW $\frac{1}{4}$ sec.121, blk. D	Clyde Chandler	A. G. Mabry	--	145	6
6	12 $\frac{1}{2}$ miles northwest	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.182, blk. D	Mrs. P. H. Williams	do.	1944	120	6
7	13 $\frac{1}{2}$ miles northwest	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.225, blk. D	do.	--	Old	85	6
8	14 miles northwest	NE $\frac{1}{2}$ NW $\frac{1}{2}$ sec.238, blk. D	Ty Field	Claude Tatum	1944	56	8
9	do.	NW cor.sec.298, blk. D	Anita Field	--	Old	60	6
10	11 miles northwest	SE cor.sec.300, blk. D	State Highway Department	Paul Pierson	1940	99	7
11	9 miles northwest	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.362, blk. D	H. B. Price	--	1911	67	6
12	11 $\frac{1}{2}$ miles northwest	NE cor.sec.359, blk. D	A. H. Borland	J. R. Whitley	1918	72	8
13	13 miles west	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.403, blk. D	Mrs. A. Weems	--	1915	78	8
14	11 $\frac{1}{2}$ miles west	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.415, blk. D	E. Hayes Sieber	--	Old	96	6
15	13 miles west	SW cor. SW $\frac{1}{4}$ sec.455,blk.D	A. L. Smith	--	Old	69	6
16	9 $\frac{1}{2}$ miles west	NE $\frac{1}{2}$ NE $\frac{1}{2}$ sec.452, blk. D	D. E. Harris	--	1943	124	6
17	6 miles west	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.448, blk. D	W. V. Starnes	--	1940	101	6
18	4 $\frac{1}{2}$ miles west	NW cor.sec.446, blk. D	W. S. Hodges	Paul Pierson	1944	275	8-5/8, 7
19	4 miles west	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.446, blk. D	do.	--	Old	100	6
20	1 $\frac{1}{2}$ miles west	SE cor.sec.425, blk. D	E. D. Webb	--	1925	100	6
21	2 $\frac{3}{4}$ miles northwest	NE $\frac{1}{2}$ SW $\frac{1}{2}$ sec.369, blk. D	M. W. Luna	W. A. Willis	1936	106	6
22	4 miles northwest	NE $\frac{1}{2}$ NW $\frac{1}{4}$ sec.368, blk. D	do.	Paul Pierson	1940	310	7

a/ Pump or lift: T, turbine; A, air; C, cylinder.

Power; E, electric; G, gasoline engine; S, steam; W, windmill. Number indicates horsepower.

All wells are drilled

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below measuring point (ft.)	Date of measurement			
1	--	c/110	--	C,W	S	Casing: 10 feet of 4-inch; perforated liner from 105 to 125 feet.
2	--	c/125	--	C,W	S	
3	--	c/ 88	--	C,W	S	
4	--	c/150	--	C,W	D,S	
5	--	c/120	--	C,W	D,S	
6	--	c/ 98	--	C,W	S	Water reported in fine-grained white sand from 98 to 120 feet.
7	--	c/ 70	--	C,W	S	
8	--	c/ 26	--	C,W	S	Casing: 48 feet of 8-inch; perforated through fine-grained white sand from 26 to 56 feet.
9	--	c/ 50	--	C,W	D,S	
10	--	c/ 60	--	None	N	Casing: 20 feet of perforated at bottom. Yield reported 100 gallons a minute. Formerly used for highway construction. Capped and abandoned.
11	--	c/ 45	--	C,W	S	See log.
12	--	c/ 56	--	C,W	D,S	Casing: 8-inch from 37 to 56 feet to cut-off heaving shale.
13	0	63.12	Nov. 7, 1944	C,W	D,S	
14	0	--	--	C,W	S	
15	--	c/ 62	--	C,W	D,S	
16	1.0	102.83	Nov. 7, 1944	C,W	D,S	
17	1.0	87.45	do.	C,W	D,S	
18	--	--	--	T,G, --	Ind	Casing: 144 feet of 8-5/8-inch; 40 feet of 7-inch perforated at bottom. Yield reported 50 gallons a minute. Supplies water for drilling oil well.
19	--	--	--	C,W	D,S	See log.
20	--	c/ 74	--	C,W	D,S	
21	--	c/ 55	--	C,W	D,S	Partial log: Sand from 55 to 94 feet and yellow clay from 94 to 106 feet.
22	--	--	--	C,W	S	Drilled for highway construction. Supply small. See log.

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

c/ Water level reported by driller or owner.

Records of wells in Yoakum County--Continued

Well	Distance from Plains	Section and block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
23	4 miles northwest	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.367, blk. D	Alice Henard	Paul Pierson	1941	92	8-5/8
24	6 $\frac{1}{2}$ miles northwest	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.365, blk. D	Ellen Keller	H. F. Brooks	1937	90	6
25	7 $\frac{1}{2}$ miles northwest	NE cor.sec.341, blk. D	State Highway Department	Paul Pierson	1940	100	7
26	8 $\frac{1}{2}$ miles northwest	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.303, blk. D	Mrs. F. H. Williams	A. G. Mabry	1937	98	6
27	do.	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.304, blk. D	do.	do.	1936	135	10
28	11 miles northwest	SE cor.sec.241, blk. D	do.	--	1890	63	6
29	9 $\frac{1}{2}$ miles northwest	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.244, blk. D	do.	A. G. Mabry	1941	135	6
30	9 miles northwest	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.220, blk. D	do.	do.	1939	126	6
31	6 miles northwest	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.307, blk. D	T. I. Bedford	do.	1939	74	6
32	5 miles northwest	SW cor.sec.276, blk. D	Marshall Kendrick	-- Stokes	1910	121	6
33	4 miles northwest	SW cor.sec.310, blk. D	J. S. Dorton, Est.	do.	1934	160	6
34	7 miles north	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.215, blk. D	Mrs. Elliott Roosevelt	Rocsevelt and Stogner	1936	5,351	--
35	8 $\frac{1}{2}$ miles northwest	Near cen. sec. 188, blk. D	T. I. Bedford	--	1908	110	6
36	10 miles northwest	Near cen. sec. 128, blk. D	do.	--	1908	120	6
37	14 $\frac{1}{2}$ miles northwest	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.40, blk. D	Ty Field	Claude Tatum	1942	140	6
38	12 $\frac{1}{2}$ miles north	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 72, blk. D	Fred W. Frost	--	1938	130	6
39	11 miles northeast	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 92, blk. D	J. H. Beshear	--	1915	157	6
40	9 miles north	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.153, blk. D	Davis Beasley	E. W. Hemme	1941	150	6
41	7 miles north	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.213, blk. D	J. B. and L. B. Curtis	--	1941	154	6
42	4 miles northeast	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.312, blk. D	Mrs. T. E. Johnson	--	1914	164	6
43	6 $\frac{1}{2}$ miles northeast	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.270, blk. D	Luther Heath	--	1910	150	6
44	7 $\frac{1}{2}$ miles northeast	NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.317, blk. D	J. W. Walser, Est.	--	1929	128	6
45	8 $\frac{1}{2}$ miles northeast	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.256, blk. D	Henry D. Heath	Virgil Wheeler	1925	135	6
46	11 $\frac{1}{2}$ miles northeast	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.135, blk. D	T. C. Marshall	-- De Paw	1934	149	6

Well	Height of measuring point below ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below measuring point (ft.)	Date of measurement			
23	--	--	--	None	N	Yield reported 150 gallons a minute. Formerly used for highway construction. Plugged and abandoned. See log.
24	--	c/ 60	--	C,W	D,S	
25	--	--	--	None	N	Casing: 79 feet of 6-inch. Yield reported 175 gallons a minute. Formerly used for highway construction. Plugged and abandoned. See log.
26	--	c/ 40	--	C,W	D,S	
27	--	c/ 40	--	T,--	N	Yield reported 300 gallons a minute. Formerly used for irrigation.
28	0	58.11	Nov. 4, 1944	C,W	S	Known locally as "Rockefeller Mill". Well.
29	--	c/126	--	C,W	S	
30	--	c/112	--	C,W	S	Fine-grained white sand reported from 112 to 126 feet.
31	--	c/ 58	--	C,W	S	
32	1.0	104.22	Nov. 2, 1944	C,W	S	
33	0.5	129.13	dc.	C,W	D,S	
34	--	--	--	None	N	Oil test. See log.
35	--	--	--	C,W	S	
36	--	c/105	--	C,W	D,S	
37	--	c/ 98	--	C,W	S	
38	--	--	--	C,W	S	
39	--	--	--	C,W	D,S	
40	--	--	--	C,W	D,S	
41	--	--	--	C,W	D,S	
42	--	--	--	C,W	D,S	
43	--	--	--	C,W	D,S	
44	--	c/113	--	C,W	D,S	
45	--	c/115	--	C,W	D,S	
46	--	c/147	--	C,W	D,S	

Records of wells in Yoakum County--Continued

Well	Distance from Plains	Section and block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
47	12½ miles northeast	NE¼SW¼ sec.138, blk. D	P. M. Williams	H. F. Brooks	1939	167	6
48	do.	NW¼NE¼ sec.200, blk. D	H. F. Brooks	do.	1936	150	6
49	13½ miles northeast	NW¼SE¼ sec.144, blk. D	Mrs. Elmer Moltham	do.	1921	352	6
50	11½ miles northeast	SW¼SW¼ sec.261, blk. D	J. E. Bryson	do.	1937	150	6
51	13½ miles northeast	SE¼SE¼ sec.203, blk. D	S. E. Kone	--	1940	140	6
52	15 miles northeast	NW¼SE¼ sec. 16, blk. K	G. W. Henson	--	Old	357	6
53	13½ miles northeast	SE¼SE¼ sec. 14, blk. D	A. G. Brantley	--	Old	150	6
54	11 miles northeast	SW¼SW¼ sec.341, blk. D	K. W. Whisenant	--	Old	160	6
55	13 miles northeast	SE¼SE¼ sec. 12, blk. D	C. B. Worsham	Hap Hudson	1928	180	6
56	11 miles east	SW cor.sec.381, blk. D	I. Stewart	-- Johnson	1941	156	6
57	13 miles east	N¼NW¼ sec. 31, blk. K	L. D. Garrett	--	1924	135	6
58	12½ miles east	NW¼NE¼ sec.496, blk. D	Helen Baker	Virgil Wheeler	1924	380	6
59	9½ miles east	SE¼SE¼ sec. 4, blk. D	E. T. Powell Est.	Carl Hammett	1938	165	6
60	8 miles east	NW cor. sec.2, blk. D	J. W. Moore, Jr.	W. A. Willis	1937	127	6, 5½
61	5 miles east	NE¼NW¼ sec.437, blk. D	T. C. Oxford	R. B. Perry	1942	140	8
62	3 miles east	NW¼SW¼ sec.430, blk. D	Johnnie Fitzgerald	--	1914	140	6
63	2 miles east	SW¼SW¼ sec.429, blk. D	Roy Fitzgerald	--	1939	85	14
64	1½ miles east	NW¼SW¼ sec.389, blk. D	M. McGinty	--	1928	130	6
65	½ mile southeast	NW cor. SE¼ sec. 442, blk. D	D. B. McGinty	W. A. Willis	1940	128	12
66	1 mile southeast	SW¼NW¼ sec.441, blk. D	State Highway Department	Paul Pierson	1940	130	8
67	3 miles south	NW¼SE¼ sec.511, blk. D	M. W. Luna	--	Old	100	6
68	3 miles southeast	SW¼NW¼ sec.104, blk. D	Roy Fitzgerald	--	--	125	6
69	5 miles southeast	SW¼NE¼ sec.506, blk. D	W. R. Patterson	--	1909	110	6
70	7 miles southeast	SW¼NE¼ sec.504, blk. D	Morris Lowe	--	Old	100	6



Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below measuring point (ft.)	Date of measurement			
47	--	c/150	--	C,W	D,S	
48	--	c/112	--	C,W	D,S	Casing: 40 feet of perforated at bottom. Fine-grained sand reported from 115 to 150 feet.
49	--	c/152	--	C,W	S	Water reported in white sand from 340 to 352 feet. No water above 340 feet
50	--	c/135	--	C,W	D,S	
51	--	--	--	C,W	D,S	
52	--	c/100	--	C,W	D,S	
53	--	--	--	C,W	D,S	
54	--	--	--	C,W	D,S	
55	--	--	--	C,W	D,S	
56	0.5	128.24	Oct. 30, 1944	C,W	D,S	
57	--	--	--	C,W	D,S	
58	1.7	125.93	Nov. 14, 1944	C,W	D,S	
59	--	c/100	--	C,W	D,S	
60	0.6	103.12	Oct. 30, 1944	C,W	D,S	Casing: 20 feet of 5½-inch perforated at bottom.
61	1.0	110.97	do.	C,W	D,S	
62	--	--	--	C,W	D,S	
63	3.0	14.55	Nov. 8, 1944	C,W	S	In bed of Sulphur Draw.
64	0.4	100.83	Oct. 27, 1944	C,W	D,S	
65	--	c/ 72	--	T,G, 12½	P	Supplies town of Plains.
66	--	c/ 60	--	None	N	Formerly used for highway construction. Yield reported 300 gallons a minute. Plugged and abandoned.
67	--	--	--	C,W	S	
68	--	--	--	C,W	S	
69	--	c/ 90	--	C,W	D,S	
70	--	--	--	C,W	D,S	

Records of wells in Yoakum County--Continued

Well	Distance from Plains	Section and block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
71	9 miles southeast	NE $\frac{1}{2}$ SE $\frac{1}{4}$ sec.502, blk. D	Mattie Kendrick	Paul Pierson	1941	140	7
72	10 miles southeast	SW $\frac{1}{2}$ SW $\frac{1}{4}$ sec.490, blk. D	Sid Mayfield	--	Old	125	6
73	12 miles southeast	NE $\frac{1}{2}$ NE $\frac{1}{4}$ sec.499, blk. D	Fay Moreland	--	1940	130	8
74	13 miles southeast	NE $\frac{1}{2}$ SW $\frac{1}{4}$ sec.498, blk. D	Mary V. Anderson	Virgil Wheeler	1926	378	8
75	13 $\frac{1}{2}$ miles southeast	SE $\frac{1}{2}$ SW $\frac{1}{4}$ sec.560, blk. D	Dick Brownfield	--	--	46	6
76	11 $\frac{1}{2}$ miles southeast	Near cen.sec.562, blk. D	do.	--	1910	90	6
77	9 miles southeast	NW $\frac{1}{2}$ SW $\frac{1}{4}$ sec.630, blk. D	Ruth Bennett	Paul Pierson	1942	160	8 $\frac{1}{2}$ , 6-5/8
78	do.	NW $\frac{1}{2}$ SW $\frac{1}{4}$ sec.630, blk. D	do.	Texas and Pacific Coal and Oil Co.	1942	15,259	8 $\frac{1}{4}$ , 5 $\frac{1}{2}$
79	8 miles southeast	SE $\frac{1}{2}$ SW $\frac{1}{4}$ sec.614, blk. D	do.	Paul Pierson	1942	154	8-5/8
80	7 miles southeast	NW $\frac{1}{2}$ NW $\frac{1}{4}$ sec.567, blk. D	Mrs. Stella M. Smith	--	1907	100	6
81	5 $\frac{1}{2}$ miles southeast	NE $\frac{1}{2}$ NW $\frac{1}{4}$ sec.569, blk. D	B. B. Carpenter	--	--	119	6
82	6 $\frac{1}{2}$ miles southeast	NE $\frac{1}{2}$ SE $\frac{1}{4}$ sec.611, blk. D	S. J. Dixon	--	--	152	8
83	5 $\frac{1}{2}$ miles south	NE $\frac{1}{2}$ NE $\frac{1}{4}$ sec.609, blk. D	State Highway Department	Paul Pierson	1940	129	8-5/8
84	5 miles southwest	SE $\frac{1}{2}$ NW $\frac{1}{4}$ sec.573, blk. D	S. J. Dixon	--	1932	120	6
85	6 miles southwest	SE $\frac{1}{2}$ NE $\frac{1}{4}$ sec.606, blk. D	W. S. Moss	Schermehorn Oil Corp.	1944	2,190	13-3/8, 8-5/8
86	6 $\frac{1}{2}$ miles southwest	SE $\frac{1}{2}$ SE $\frac{1}{4}$ sec.576, blk. D	-- Sawyer	--	1939	108	6
87	4 $\frac{1}{2}$ miles southwest	NE $\frac{1}{2}$ SE $\frac{1}{4}$ sec.514, blk. D	A. J. Davis	--	1937	130	6
88	7 miles southwest	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.541, blk. D	Robert Chambliss	Claude Tatum	1943	110	4
89	10 miles southwest	NW $\frac{1}{2}$ N $\frac{1}{4}$ sec.643, blk. D	Geo. Cleveland	--	--	63	6
90	10 $\frac{1}{2}$ miles southwest	NE $\frac{1}{2}$ NE $\frac{1}{4}$ sec.582, blk. D	Mrs. Leroy McCravey	J. R. Whitley	1901	100	6
91	13 $\frac{1}{2}$ miles southwest	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.584, blk. D	J. S. Wagley	--	--	100	6
92	do.	NW $\frac{1}{2}$ N $\frac{1}{4}$ sec.647, blk. D	Geo. Haywood	Claude Tatum	1942	68	6

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below measuring point (ft.)	Date of measurement			
71	0.2	77.37	Nov. 16, 1944	None	N	Casing: 106 feet of 7-inch. Formerly supplied water for drilling oil wells. See log.
72	--	--	--	C,W	D,S	
73	--	c/ 80	--	C,W	D,S	
74	1.0	94.22	Nov. 1, 1944	C,W	D,S	
75	--	c/ 40	--	C,W	S	In bed of Sulphur Draw.
76	--	--	--	C,W	S	
77	0.7	111.20	Nov. 14, 1944	None	N	Casing: 8 $\frac{1}{2}$ -inch from 0 to 66 feet; 6-5/8-inch from 0 to 124.5 feet. Formerly supplied water for drilling.
78	--	--	--	--	--	Oil test. oil well. See log.
79	--	--	--	T,G, 85	Ind	Casing: 8-5/8-inch from 0 to 86 feet. Yield reported 175 gallons a minute. Supplies water for drilling oil wells. See log.
80	--	c/ 90	--	C,W	D,S	
81	--	c/105	--	C,W	S	
82	0	118.61	Nov. 14, 1944	C,W	S	
83	--	--	--	None	N	Casing: 8-5/8-inch from 0 to 98 feet. Yield reported 300 gallons a minute. Water in sand from 98 to 129 feet. Plugged and abandoned.
84	--	--	--	C,W	D,S	Temperature 64° F.
85	--	--	--	--	--	Oil test. Plugged and abandoned. See log.
86	1.0	74.19	Nov. 9, 1944	C,W	S	
87	--	--	--	C,W	D,S	
88	--	--	--	C,W	S	
89	1.0	46.56	Nov. 9, 1944	C,W	D	
90	--	c/ 82	--	C,W	D,S	
91	--	c/ 80	--	C,W	D,S	
92	--	c/ 50	--	C,W	D,S	

Records of wells in Yoakum County--Continued

Well	Distance from Denver City	Section and block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
93	14 miles northwest	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.661, blk. D	H. T. Fillingim	Humble Oil and Refining Co.	1944	5,640	10 $\frac{3}{4}$ , 5 $\frac{1}{2}$
94	do.	NW cor.sec.712, blk. D	T. F. Fillingim	Emmett Stokes	1913	80	6
95	13 $\frac{1}{2}$ miles northwest	NW cor. NW $\frac{1}{4}$ sec.788, blk.D	J. B. Lewis	Claude Tatum	1937	70	6
96	13 miles west	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.905, blk. D	Seawalt and Roberts	--	Old	82	6
97	11 $\frac{1}{2}$ miles northwest	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.790, blk. D	L. B. Tannehill	--	1919	65	10
98	9 $\frac{1}{2}$ miles northwest	NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.792, blk. D	E. P. Stanford	Marion Coffee	1911	91	6
99	8 $\frac{1}{2}$ miles west	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.856, blk. D	J. F. Stokes	--	1942	90	6
100	7 miles northwest	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.835, blk. D	C. A. Hudson	Drilling Exploration Inc.	1940	100	6
101	4 $\frac{1}{2}$ miles west	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.897, blk. D	Campbell and Posey, Recievers	Tidewater Associated Oil Co.	1939	5,070	10 $\frac{3}{4}$ , 5 $\frac{1}{2}$
102	do.	SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.860, blk. D	E. Keller	--	1938	132	6
103	3 $\frac{3}{4}$ miles northwest	cen. SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 798, blk.D	Don Danvers	Don Danvers	1938	5,085	10, 5-3'16
104	4 $\frac{1}{4}$ miles northwest	cen.NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.798, blk.D	J. H. Lynn	Sun Oil Co.	1938	5,065	10 $\frac{3}{4}$ , 7
105	do.	NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec.799, blk. D	N. W. Willard	Paul Pierson	1944	105	8-5/8
106	6 miles northwest	SE cor. NW $\frac{1}{4}$ sec. 733, blk.D	Pat H. Crow	--	1942	69	6
107	9 miles northwest	SW cor. NW $\frac{1}{4}$ sec. 668, blk.D	Geo. Cleveland	--	1910	48	6
108	7 miles northwest	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.671, blk. D	Dan Allen	--	Old	92	8
109	5 $\frac{1}{2}$ miles northwest	SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec.735, blk. D	W. A. Anderson	Paul Pierson	1939	95	8
110	5 miles north	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.736, blk. D	W. D. Hearne, et al.	do.	1940	137	7
111	4 $\frac{3}{4}$ miles north	SW cor.sec.737, blk. D	Oil Development Co. of Texas	do.	1940	120	8-5/8, 5
112	6 miles north	NE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.700, blk. D	Josie L. Shanks	--	--	127	8
113	4 $\frac{3}{4}$ miles north	SE cor. sec.737, blk. D	Oil Development Co. of Texas	Paul Pierson	1940	115	8
114	4 miles northeast	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.763, blk. D	do.	do.	1940	156	7
115	6 miles northeast	SW cor. sec.740, blk. D	J. H. Comer	Don Danvers	1940	5,205	10 $\frac{3}{4}$ , 5 $\frac{1}{2}$
116	6 $\frac{1}{2}$ miles northeast	SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.741, blk. D	Oil Development Co. of Texas	Paul Pierson	1939	376	8

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below measuring point (ft.)	Date of measurement			
93	--	--	--	--	--	Oil test. Plugged and abandoned. See log.
94	--	c/ 50	--	C,W	D,S	Water sand reported from 30 to 80 feet.
95	--	c/ 45	--	C,W	D,S	
96	1.0	35.43	Nov. 13, 1944	C,W	S	
97	2.0	43.22	do.	C,W	S	Drilled for irrigation but never used.
98	--	c/ 69	--	C,W	D,S	
99	--	--	--	C,W	D,S	
100	--	c/ 50	--	C,G, 6	P	Supplies company camp. Formerly supplied water for drilling oil wells.
101	--	--	--	--	--	Oil test. See log.
102	0.4	49.73	Nov. 13, 1944	C,W	D,S	
103	--	--	--	--	--	Oil test. See log.
104	--	--	--	--	--	Do.
105	--	--	--	T,E, 3	P	One of 2 wells that supplies oil company camp. See log.
106	1.6	53.86	Nov. 9, 1944	C,W	D,S	
107	1.5	37.64	do.	C,W	D,S	Near large sink known locally as "Old Ink Basin".
108	1.0	77.70	do.	C,W	D,S	
109	0.6	66.03	Nov. 8, 1944	None	N	Formerly supplied water for drilling oil wells. See log.
110	0.5	69.59	do.	C,W	D,S	Casing: 7-inch from 0 to 137 feet; bottom joint perforated. Yield reported 155 gallons a minute when tested. See log.
111	--	--	--	None	N	Yield reported 125 gallons a minute. Formerly supplied water for drilling oil wells. Plugged and abandoned. See log.
112	0.5	83.08	Nov. 14, 1944	C,W	D	
113	--	--	--	None	N	Drilled to supply water for drilling oil wells but yield insufficient.
114	--	--	--	None	N	Formerly supplied 125 gallons of water a minute for drilling oil wells. See log.
115	--	--	--	--	--	Oil drilling oil wells. See log. test. See log.
116	--	c/ 18	--	C,W	S	Casing: 8-inch from 0 to 295 feet. Formerly supplied water for drilling oil wells. See log.

Records of wells in Yoakum County--Continued

Well	Distance from Denver City	Section and block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
117	8 miles northeast	NE cor. SW $\frac{1}{4}$ sec. 695, blk. D	Ruth Bennett	Lloyd Measures	1939	135	6
118	9 $\frac{1}{2}$ miles northeast	Gen. NE $\frac{1}{4}$ sec. 678, blk. D	do.	C. J. Davidson	1935	5,288	15 $\frac{1}{2}$ , 7
119	11 miles northeast	SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 691, blk. D	Nancy Freeman	--	Old	130	6
120	14 $\frac{1}{2}$ miles northeast	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 685, blk. D	Mrs. J. B. King	--	1935	135	6
121	13 $\frac{1}{2}$ miles northeast	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 750, blk. D	J. C. Bluhm	Horace Fox	1943	132	6
122	13 miles northeast	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 816, blk. D	Oil Development Co. of Texas	--	--	130	6
123	10 $\frac{1}{2}$ miles northeast	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 811, blk. D	E. F. Mosher	--	1930	150	6
124	6 miles northeast	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 806, blk. D	Sadie O'Dowd	Paul Pierson	1942	125	8-5/8
125	2 $\frac{3}{4}$ miles northeast	SE cor. NW $\frac{1}{4}$ sec. 827, blk. D	Shell Oil Co. Inc.	do.	1944	242	8
126	2 miles north	SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 828, blk. D	Geo. Baumgart	Shell Petroleum Corp.	1937	5,000	9, 5
127	In Denver City	SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 892, blk. D	City of Denver City	W. A. Willis	1940	180	8
128	do.	SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 892, blk. D	do.	do.	1939	178	8
129	$\frac{3}{4}$ mile northeast	NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 892, blk. D	Shell Oil Co. Inc.	-- Burke	1939	337	8
130	do.	do.	do.	do.	1940	175	10
131	do.	do.	do.	-- Stribling	1939	355	8-5/8
132	do.	do.	do.	-- Evans	1944	172	8
133	do.	do.	do.	do.	1944	340	8
134	1 mile northeast	SE cor. SE $\frac{1}{4}$ sec. 865, blk. D	Humble Oil and Refining Co.	-- Stribling	1938	136	13

Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below measuring point (ft.)	Date of measurement			
117	--	c/100	--	C,E, 1 $\frac{1}{2}$	P	Casing: 135 feet of 6-inch; bottom joint perforated. Supplies oil com-
118	--	--	--	--	--	Oil test. See [pany camp. See log. log.
119	--	--	--	C,W	D,S	
120	--	--	--	C,W	D,S	
121	--	c/ 90	--	C,W	D,S	
122	1.6	109.08	Nov. 15, 1944	C,W	N	
123	--	c/135	--	C,W	D,S	
124	--	--	--	None	N	Formerly supplied 40 gallons a minute for drilling oil wells. Plugged and abandoned. See log.
125	--	c/ 65	--	A,-	Ind	Casing: 242 feet of 8-inch; perforated from 70 to 131 feet. Originally drilled to 460 feet; plugged back to 242 feet. Company well 1. Yield reported 40 gallons a minute.
126	--	--	--	--	--	Oil test. See log. See log.
127	--	--	--	T,E, 10	P	Casing: 180 feet of 8-inch; bottom 60 feet perforated. City well 3. Yield reported 150 gallons a minute. This well and well 128 supplies
128	--	--	--	T,E, 5	P	Casing: 178 feet of 8-inch; bottom 40 feet perforated. Yield reported 95 gallons a minute. Denver City.
129	--	--	--	T,E, 15	Ind	Casing: 328 feet of 8-inch; perforated from 251 to 328 feet. Company well 2. Yield reported 45
130	--	--	--	T,S	Ind	Casing: 126 feet of 10-inch; perforated from 91 to 126 feet. Company well 3. Yield reported 100 gallons a minute. See log.
131	--	--	--	A,-	Ind	Casing: 351 feet of 8-5/8-inch; perforated from 287 to 351 feet. Company well 1. Yield reported 120 gallons a minute. See log.
132	--	--	--	T,S, --	N	Casing: 172 feet of 8-inch; perforated from 107 to 172 feet. Company well 4. Yield reported 80 gallons a minute. See log.
133	--	--	--	None	N	Casing: 340 feet of 8-inch; perforated from 280 to 340 feet. Company well 5. See log.
134	--	c/100	--	C,G, --	P	One of two wells of same depth that supply oil company camp. See log.

Records of wells in Yoakum County--Continued

Well	Distance from Denver City	Section and block	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)
135	In Denver City	NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.892, blk. D	Mrs. Cliff Armstrong	Paul Pierson	1941	312	8
136	2 $\frac{3}{4}$ miles northeast	NE $\frac{1}{4}$ sec. 890, blk. D	T. D. Hovencamp, Est.	do.	1940	143	8-5/8
137	2 $\frac{3}{4}$ miles east	On cen. line E $\frac{1}{4}$ sec. 38, blk. AX	Oil Development Co. of Texas	--	--	153	--
138	do.	do.	do.	--	--	152	--
139	do.	SW $\frac{1}{2}$ SW $\frac{1}{4}$ sec.889, blk. D	Southwestern Public Service Co.	-- Van Pate	--	151	--
140	do.	do.	do.	Paul Pierson	1944	156	10
141	3 miles east	do.	do.	--	--	160	--
142	do.	do.	do.	--	--	155	--
143	6 miles east	SW $\frac{1}{2}$ SW $\frac{1}{4}$ sec.871, blk. D	Annie Armstrong	--	--	97	6
144	9 $\frac{1}{2}$ miles east	SW $\frac{1}{2}$ SE $\frac{1}{4}$ sec.874, blk. D	Elias Ivy	--	1930	142	6
145	12 $\frac{1}{2}$ miles east	SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.880, blk. D	Mrs. J. W. Cotton	W. A. Willis	1944	170	6
146	2 $\frac{3}{4}$ miles northeast	SE $\frac{1}{2}$ NW $\frac{1}{4}$ sec.827, blk. D	Shell Oil Co. Inc.	-- Evans	1944	381	10, 8
147	do.	do.	do.	Layne-Texas Co. Ltd.	1944	140	10
148	do.	do.	do.	-- Evans	1944	340	10, 8

a/ Pump or lift: T, turbine; A, air; C, cylinder.

Power: E, electric; G, gasoline engine; S, steam; W, windmill. Number indicates horsepower.



Well	Height of measuring point above ground (ft.)	WATER LEVEL		Method of lift a/	Use of water b/	Remarks
		Below measuring point (ft.)	Date of measurement			
135	--	--	--	None	N	Water test drilled for Southern Public Service Co. Supply insufficient. Plugged and abandoned. See log.
136	--	--	--	None	N	See log.
137	--	c/105	--	T,E, 20	Ind	Casing: perforated from 82 to 149 feet. Yield reported 190 gallons a minute. See log.
138	--	c/108	--	T,E, 25	Ind	Casing: perforated from 81 to 148 feet. Yield reported 270 gallons a minute. Southwestern Public Service Co. No. 1. See log.
139	--	c/ 95	--	T,E, 15	Ind	Casing: perforated from 81 to 89, 94 to 112, 135 to 139, and 141 to 147 feet. Yield reported 108 gallons a minute. Southwestern Public Service Co. No. 2 . See log.
140	--	c/104.5	--	T,E, 15	Ind	Casing: 156 feet of 10-inch; bottom 42 feet slotted. Yield reported 168 gallons a minute. See log.
141	--	--	--	None	N	See log. Well 3.
142	--	--	--	None	N	Do.
143	--	c/ 62	--	C,W	S	
144	2.0	135.40	Nov. 15, 1944	C,W	D,S	
145	1.2	108.61	dc.	C,W	D,S	
146	--	--	--	--	Ind	Company well 2. See log.
147	--	--	--	--	Ind	Casing: 140 feet of 10-inch; perforated from 80 to 125 feet. Company well 3. See log.
148	--	--	--	--	Ind	Casing: 340 feet of 8-inch; perforated from 280 to 325 feet. Company well 4. See log.

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

Table of drillers' logs, Yoakum County, Texas

	Thickness (feet)	Depth (feet)
<u>Well 10</u>		
State Highway Department, 11 miles northwest of Plains. Paul Pierson, driller.		
Soil	1	1
Caliche	44	45
Sand	24	69
Chert	12	81
Sand, water	18	99
Yellow clay	--	99

	Thickness (feet)	Depth (feet)
<u>Well 18</u>		
W. S. Hodges, 4 $\frac{1}{2}$ miles west of Plains. Paul Pierson, driller.		
Soil	8	8
Caliche	24	32
Sand	37	69
Chert	1	70
Sand	9	79
Sand, water (10 gallons a minute)	16	95
Yellow clay	58	153
Blue shale	45	198
Lime	42	240
Sand, water (50 gallons a minute)	33	273
Blue shale	2	275

	Thickness (feet)	Depth (feet)
<u>Well 22</u>		
M. W. Luna. 4 miles northwest of Plains. Paul Pierson, driller.		
Soil	1	1
Caliche	21	22
Red sand	35	57
Chert	6	63
Sand, water	⑦ WL 60?	70
Yellow clay	2	72
Sand, water (4 gallons a minute)	②	74
Yellow clay	34	108
Blue shale	110	218
Lime	54	272
Sand, water (1 $\frac{1}{2}$ gallons a minute)	⑩	288
Red rock	17	305
Blue shale	5	310

	Thickness (feet)	Depth (feet)
<u>Well 23</u>		
Alice Henard, 4 miles northwest of Plains. Paul Pierson, driller.		
Soil	13	13
Caliche	19	32
Sand	15	47
White sand with black silt, water	45	92

	Thickness (feet)	Depth (feet)
<u>Well 25</u>		
State Highway Department, 7 $\frac{1}{2}$ miles northwest of Plains. Paul Pierson, driller.		
Soil	4	4
Caliche	16	20
Sand	20	40
Chert	2	42
Red sand	21	63
Sand, water	⑭	77
Chert	2	79
Sand, water	⑰	100
Yellow clay	--	107

	Thickness (feet)	Depth (feet)
<u>Well 34, partial log</u>		
Mrs. Elliott Roosevelt, 7 miles north of Plains. Roosevelt and Stogner, drillers.		
Soil and caliche	60	60
Sand and rock layers	8	68
Sandy lime	8	76
Sand rock	24	100
Sand, water	⑰	126
Gray clay	7	133
Blue shale and lime	167	300
Hard lime with shale breaks	45	345
Sand, water	⑭	359
Shale	88	447
Shale and lime	203	650
Sand, water	⑩	660
Hard sand	⑰	684
Shale and lime	58	742
Gray sand	⑰	758
Red beds	42	800
Hard sand	⑳	830
Red shale and sand	10	840
(Continued on next page)		

Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 34, partial log--Continued</u>		
Red beds and lime	182	1022
Hard gray sand	18	1040
Shale and lime	260	1300
TOTAL DEPTH	--	5351

<u>Well 71</u>		
Mattie Kendrick, 9 miles southeast of Plains. Paul Pierson, driller.		
Soil	16	16
Caliche	24	40
Sand	24	64
Chert	1	65
Sand	(21) <i>W.L. 78</i>	86
Chert	20	106
Sand, water	(22)	128
Sticky sand and gravel	7	135
Red rock	2	137
Yellow clay	3	140

<u>Well 77</u>		
Ruth Bennett, 9 miles southeast of Plains. Paul Pierson, driller.		
Soil	30	30
Red sand	36	66
Chert	5	71
Sand	(4) 44 <i>W.L. 71</i>	115
Sand, water	(16)	131
Chert	6	137
Sand, water	(23)	160

<u>Well 78, partial log</u>		
Ruth Bennett, 9 miles southeast of Plains. Texas and Pacific Coal and Oil Company, driller.		
Soil	2	2
Caliche	20	22
Red sand	45	67
Lime	5	72
Sand	43	115
Sand, water	7	122
Chert	2	124
Sand, water	10	134

	Thickness (feet)	Depth (feet)
<u>Well 78, partial log--Continued</u>		
Chert	3	137
Sand, water	31	168
Clay	4	172
Shale	26	198
Sand and shale	265	463
Red beds	57	520
Red beds and lime	426	946
Shale and red beds	170	1116
Red beds	352	1468
TOTAL DEPTH	--	5259

<u>Well 79</u>		
Ruth Bennett, 8 miles southeast of Plains. Paul Pierson, driller.		
Sand	20	20
Caliche	12	32
Sand	25	57
Chert	9	66
Sand	44	110
Sand, water	7	117
Chert	6	123
Sand, water	31	154

<u>Well 85, partial log</u>		
W. S. Moss, 6 miles southwest of Denver City. Schermerhorn Oil Corp., driller.		
Sand	20	20
Caliche	40	60
Sand	(35) 50 <i>W.L. 75</i>	110
Sand and clay	25	135
Sand, water	(22)	157
Light-colored clay	18	175
Blue shale	10	185
Blue shale and lime	25	210
Sand, water	(5)	215
Hard sand	(18)	233
Lime and sand	72	305
Red rock	15	320
Lime	6	326
Red rock and lime	82	408
Red rock and shale	212	620
Red rock and lime	370	990
TOTAL DEPTH	--	2190

Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 93, partial log</u>		
H. T. Fillingim, 14 miles northwest of Denver City. Humble Oil and Refining Company, driller.		
Soil and sub-soil	25	25
Hard sand	35	60
Sand, water	80	140
Hard sand	10	150
Sand and shale	90	240
Broken sand	60	300
Sand	60	360
Hard sand	20	380
Blue shale	50	430
Red beds	525	955
TOTAL DEPTH		5640

	Thickness (feet)	Depth (feet)
<u>Well 101, partial log</u>		
Campbell and Posey, receivers, 7 miles northwest of Denver City. Tidewater Associated Oil Company, driller.		
Caliche	45	45
Sand, water	29	74
Hard sand	13	87
"Quicksand", water	11	98
Sand and lime	87	185
Sand and red rock	52	237
Shale and lime	253	490
Red beds and lime	285	775
Shale and lime	343	1118
TOTAL DEPTH		5070

	Thickness (feet)	Depth (feet)
<u>Well 103, partial log</u>		
Don Danvers, 3 $\frac{3}{4}$ miles northwest of Denver City. Don Danvers, driller.		
Soil	25	25
Caliche	80	105
Sand	37	142
Anhydrite	23	165
Sand	3	168
Broken rock	17	185
Hard sand	22	207
Hard rock	15	222
Broken rock	1	223
Hard limey sand	7	230
Sandy shale	26	256
Hard sandy shale	61	317
Hard shale	30	347

	Thickness (feet)	Depth (feet)
<u>Well 103, partial log--Continued</u>		
Hard shale with streaks of hard sand		
	113	460
Red beds with lime streaks		
	69	529
Red and brown shale with lime streaks		
	30	559
Red and brown shale with hard sand streaks		
	79	638
Red shale and hard sand streaks		
	121	759
Red beds and lime streaks		
	111	870
Red shale and lime		
	71	941
TOTAL DEPTH		5085

	Thickness (feet)	Depth (feet)
<u>Well 104, partial log</u>		
J. H. Lynn, 4 $\frac{1}{2}$ miles northwest of Denver City. Sun Oil Company, driller.		
Caliche	40	40
Lime	25	65
Sand, water	20	85
Red shale	95	180
Sand, water	5	185
Sand rock	10	195
Gravel	30	225
Red rock	40	275
Red beds	1101	1376
TOTAL DEPTH		5065

	Thickness (feet)	Depth (feet)
<u>Well 105</u>		
N. W Willard, 4 $\frac{1}{2}$ miles northwest of Denver City. Paul Pierson, driller.		
Soil	1	1
Caliche	25	26
Sand	31	57
Chert	10	67
Sand	13	80
Sand, water	19	99
Chert	6	105

Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 109</u>		
W. A. Anderson, 5 $\frac{1}{2}$ miles northwest of Denver City. Paul Pierson, driller.		
Sand	30	30
Caliche	10	40
Sand	48	88
Sand, water (12 gallons a minute)	5	93
Chert	2	95
Yellow clay	--	95

	Thickness (feet)	Depth (feet)
<u>Well 110</u>		
W. D. Hearne Estate, 5 miles north of Denver City. Paul Pierson, driller.		
Soil	4	4
Caliche	36	40
Sand	44	84
Chert	4	88
Sand, water (10 gallons a minute)	9	97
Chert	8	105
Sand and gravel, water (155 gallons a minute)	32	137

	Thickness (feet)	Depth (feet)
<u>Well 111</u>		
Oil Development Company of Texas, 4 $\frac{3}{4}$ miles north of Denver City. Paul Pierson, driller.		
Soil	2	2
Caliche	50	52
Sand	23	75
Chert	16	91
Sand, water	3	94
Chert	2	96
Sticky sand	1	97
Gravel	17	114
Yellow clay	6	120

	Thickness (feet)	Depth (feet)
<u>Well 113</u>		
Oil Development Company of Texas, 4 $\frac{3}{4}$ miles north of Denver City. Paul Pierson, driller.		
Soil	35	35
Hard caliche	3	38

	Thickness (feet)	Depth (feet)
<u>Well 113--Continued</u>		
Soft caliche	7	45
Red sand	33	78
Sand, water	12	90
Chert	7	97
Sand, water	5	102
Gravel, water	4	106
Yellow clay	9	115

	Thickness (feet)	Depth (feet)
<u>Well 114</u>		
Oil Development Company of Texas, 4 miles northeast of Denver City. Paul Pierson, driller.		
Soil	12	12
Caliche	16	28
Red sand	43	71
Chert	7	78
Broken sand, water	48	126
Soft sand, water	14	140
Gravel, water	16	156

	Thickness (feet)	Depth (feet)
<u>Well 115, partial log</u>		
J. H. Cemer, 6 miles northeast of Denver City. Don Danvers, driller.		
Surface soil	73	73
Sand, water	29	102
Shale	158	260
Sand, water	10	270
Red beds	83	353
Sand, water	172	525
Red beds	100	625
TOTAL DEPTH		5205

	Thickness (feet)	Depth (feet)
<u>Well 116</u>		
Oil Development Company of Texas, 6 $\frac{1}{2}$ miles northeast of Denver City. Paul Pierson, driller.		
Soil	5	5
Caliche	25	30
Sand	16	46
Chert	2	48
Red sand	27	75
Sand	8	83
Chert	3	86
(Continued on next page)		

Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 116--Continued</u>		
Sand, water	23	109
Chert	12	121
Blue sticky clay	7	128
Lime	1	129
Blue shale	36	165
Lime	45	210
Blue shale	16	226
Lime	1	227
Shale	5	232
Lime	45	277
Blue shale	5	282
Lime	3	285
Blue sticky shale	8	293
Lime	2	295
Sand, water	77	372
Red rock	4	376

<u>Well 117</u>		
Ruth Bennett, 8 miles northeast of Denver City. Paul Pierson, driller.		
Soil	10	10
Sand	40	50
Lime	3	53
Sand	42	95
Lime	17	112
Sand, water	16	128
Sandy yellow clay	7	135

<u>Well 118, partial log</u>		
Ruth Bennett, 9½ miles northeast of Denver City. C. J. Davidson, driller.		
Soil	10	10
Sandy lime	30	40
White and pink-colored sand	50	90
White sand with lime streaks	14	104
Sand, water	16	120
Lime	8	128
Sand, water	33	161
Blue shale	72	233
Lime and shale	45	278
Hard lime	35	313
Sand	57	370
Gray shale	60	430

	Thickness (feet)	Depth (feet)
<u>Well 118, partial log--Continued</u>		
Red sandy shale	110	540
Sand, water	35	575
Red beds	200	775
Red shale	142	917
TOTAL DEPTH		5088

<u>Well 124</u>		
Sadie O'Dowd, 6 miles northeast of Denver City. Paul Pierson, driller.		
Soil	2	2
Caliche	53	55
Sand	5	60
Chert	4	64
Sand	17	81
Chert	8	89
Hard sand, water	11	100
Soft sand, water	8	108
Chert	10	118
Yellow clay	7	125

<u>Well 125</u>		
Shell Oil Company, Inc., No. 1, 2¾ miles northeast of Denver City. Paul Pierson, driller.		
Soil	1	1
Caliche	25	26
Sand	12	38
Chert	7	45
Sand	25	70
Soft sand, water	15	85
Hard sand	10	95
Soft sand	5	100
Hard sand	13	113
Soft sand	12	125
Gravel	6	131
Yellow clay	3	134
Lime	1	135
Yellow clay	13	148
Blue shale	47	195
Gray lime	35	230
Blue shale	20	250
Sand, water (½ gallon a minute)	12	262
Blue shale, sand and gravel	38	300

(Continued on next page)

Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 125--Continued</u>		
Sandy shale	15	315
Red rock	27	342
Blue shale	8	350
Dry sand	5	355
Blue shale	30	385
Red rock	5	390
Sandy blue shale	28	418
Red rock	10	428
Blue shale	5	433
Red rock	27	460

<u>Well 126, partial log</u>		
Geo. Baumgart, 2 miles north of Denver City. Shell Petroleum Corporation, driller.		
Caliche	79	79
Caliche and sand	11	90
Sand	40	130
Red rock	71	201
Shale	93	294
Red beds and sand	150	444
Red rock	36	480
Red beds	190	670
Red beds and sand	100	770
Red beds	1040	1810
TOTAL DEPTH		5000

<u>Well 129</u>		
Shell Oil Company, Inc., Well no. 2, $\frac{3}{4}$ mile northeast of Denver City. -- Burke, driller.		
Caliche	35	35
Sand, dry	43	78
Sand with layer of sand rock, water	83	161
Sandy clay	2	163
Rock	3	166
Sandy clay	12	178
Brown clay	15	193
Rock	5	198
Blue shale	5	203
Rock	4	207
Blue shale	47	254
Sand, water	68	322
Blue shale	15	337

	Thickness (feet)	Depth (feet)
<u>Well 130</u>		
Shell Oil Company, Inc., No. 3, $\frac{3}{4}$ mile northeast of Denver City. -- Burke, driller.		
Caliche	20	20
Sand, dry	23	43
Shell of rock	10	53
Sand, dry	3	56
Rock	24	80
Sand, dry	15	95
Sand, water	20	115
Blue shale	5	120
Sand and gravel, water	12	132
Hard rock	15	147
Caliche sand, water	8	155
Rock	4	159
Sand and gravel, dry	5	164
Rock	5	169
Sandy clay	3	172
Brown clay	3	175

<u>Well 131</u>		
Shell Oil Company, Inc., No. 1, $\frac{3}{4}$ mile northeast of Denver City. -- Stribling, driller.		
Surface soil	4	4
"Hard pan"	6	10
Caliche	27	37
Brown sand	51	88
Hard sand	2	90
Pink sand	5	95
White sand, water	30	125
Red shale	3	128
Hard sand rock	8	136
Sand and gravel, water	4	140
Gray lime	35	175
Conglomerate, water	20	195
Shell of rock	10	205
Hard gray lime	43	248
Hard red rock	47	295
Sand, water	60	355

Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 132</u>		
Shell Oil Company, Inc., $\frac{3}{4}$ mile north-east of Denver City. -- Evans, driller.		
Surface soil	4	4
Sandy caliche	21	25
Sand, dry	57	82
Hard rock	6	88
Fine-grained sand	17	105
Sand, water	22	127
Hard rock	4	151
Sand, dry	6	157
Hard rock	3	160
Sand	17	177
Hard rock	4	181
Sand and gravel, water	11	192
Yellow clay	--	192

	Thickness (feet)	Depth (feet)
<u>Well 133</u>		
Shell Oil Company, Inc., $\frac{3}{4}$ mile north-east of Denver City. -- Evans, driller.		
Surface soil	4	4
Sand and caliche	22	26
Sand, dry	56	82
Hard rock	5	87
Fine-grained sand	16	103
Sand, water	27	130
Hard rock	4	134
Sand, dry	3	137
Hard rock	4	141
Sand, dry	16	157
Hard rock	3	160
Gravel and sand, water	11	171
Sandy clay	29	200
Blue clay and shale	90	290
White sand, water	31	321
Blue clay and shale	19	340

	Thickness (feet)	Depth (feet)
<u>Well 134</u>		
Humble Oil and Refining Company, one mile northeast of Denver City. -- Stribling, driller.		
Red sand	3	3
Caliche	32	35
Sand	46	81
Rock	7	88
Sand	2	90

	Thickness (feet)	Depth (feet)
<u>Well 134--Continued</u>		
Rock	13	103
Gray sand	7	110
Sand, water	26	136

	Thickness (feet)	Depth (feet)
<u>Well 135</u>		
Mrs. Cliff Armstrong, $\frac{1}{2}$ mile east of Denver City. Paul Pierson, driller.		
Soil	2	2
Caliche	2	4
Soft sand	60	64
Hard sand	5	69
Soft sand	27	96
Chert	10	106
Soft sand	19	125
Hard sand	4	129
Soft sand	13	142
Sticky white sand	16	158
Hard sand	2	160
Soft sand	7	167
Gravel	3	170
Yellow clay	18	188
Blue clay	15	203
Lime	1	204
Blue shale	14	218
Lime	20	238
Shale	1	239
Lime	23	262
Blue shale	8	270
Sand, water	16	286
Sandy shale	12	298
Red rock	14	312

	Thickness (feet)	Depth (feet)
<u>Well 136</u>		
T. D. Hovencamp, $2\frac{3}{4}$ miles northeast of Denver City. Paul Pierson, driller.		
Soil	5	5
Caliche	30	35
Sand	22	57
Lime	15	72
Sand	30	102
Red sand	3	105
Sand, water	35	140
Sticky white sand	3	143



Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 137</u>		
Oil Development Company of Texas, Southwestern Public Service Company No. 1, 2 $\frac{3}{4}$ miles east of Denver City.		
Soil	5	5
Caliche	23	28
Hard lime rock	17	45
Lime rock and sand	15	60
Dry sand	10	70
Hard rock	13	83
Rock and sand, some water	17	100
Sand, water	49	149
Yellow clay	4	153

	Thickness (feet)	Depth (feet)
<u>Well 138</u>		
Oil Development Company of Texas, South- western Public Service Company No. 2, 2 $\frac{3}{4}$ miles east of Denver City.		
Soil	7	7
Caliche	21	28
Hard lime rock	12	40
Soft lime rock with some sand	4	44
Lime rock and red sand	16	60
Dry sand	17	77
Hard rock	4	81
Loose rock and sand, some water	19	100
Sand and white rock	15	115
Sand, water	33	148
Yellow clay	4	152

	Thickness (feet)	Depth (feet)
<u>Well 139</u>		
Southwestern Public Service Company No. 3, 2 $\frac{3}{4}$ miles east of Denver City.		
Soil	3	3
Brown clay	9	12
Caliche and lime rock	21	33
Sand rock	18	51
Dry sand	5	56
Sand rock	3	59
Dry sand	7	66
Sand rock	1	67
Dry sand	10	77

	Thickness (feet)	Depth (feet)
<u>Well 139--Continued</u>		
Hard sand rock	4	81
Loose rock and sand (some water)	8	89
Hard sand rock	5	94
Light red sand (some water)	18	112
Sand rock	12	124
White clay and sand	12	136
Fine-grained yellow sand, water	3	139
Sand rock	2	141
Yellow sand, water	6	147
Light red clay and sand	4	151

	Thickness (feet)	Depth (feet)
<u>Well 141</u>		
Southwestern Public Service Company, 3 miles east of Denver City.		
Soil	5	5
Caliche	5	10
Sand	40	50
Crystallized sand	5	55
Sand	20	75
Crystallized sand	10	85
Sand, water	2	87
Crystallized sand	5	92
Sand	25	117
Sand, water	8	125
Hard sand	11	136
Crystallized sand	2	138
Sticky sand	7	145
Sand and gravel, water	7	152
Yellow clay	8	160

	Thickness (feet)	Depth (feet)
<u>Well 142</u>		
Southwestern Public Service Company, 3 miles east of Denver City.		
Soil	5	5
Caliche	5	10
Sand	40	50
Crystallized sand	5	55
Sand	20	75
Crystallized sand	7	82
Sand, water	3	85
Hard sand	5	90
(Continued on next page)		

Table of drillers' logs, Yoakum County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 142--Continued</u>		
Sand	25	115
Sand, water	8	123
Hard sand	11	134
Crystallized sand	2	136
Sticky sand	7	143
Sand and gravel, water	6	149
Yellow clay	6	155

	Thickness (feet)	Depth (feet)
<u>Well 146</u>		
Shell Oil Company, Inc., No. 2, $2\frac{3}{4}$ miles northeast of Denver City. -- Evans, driller.		
Surface	3	3
Caliche	57	60
Hard rock	4	64
Yellow clay	6	70
Water, sand	66	136
Shell of rock	3	139
Yellow clay	6	145
Blue shale	25	170
Red beds	55	225
Yellow clay	15	240
Sandy lime	25	265
Red beds	5	270
Sand, water	40	310
Red beds	40	350
Sandy lime	10	360
Red beds	21	381

	Thickness (feet)	Depth (feet)
<u>Well 147</u>		
Shell Oil Company, Inc., No. 3, $2\frac{3}{4}$ miles northeast of Denver City. Layne-Texas Company, Ltd., driller.		
Surface	3	3
Caliche	67	70
Hard rock	6	76
Sand, water	45	121
Hard rock	9	130
Gravel and clay	10	140

	Thickness (feet)	Depth (feet)
<u>Well 148</u>		
Shell Oil Company, Inc. No. 4, $2\frac{3}{4}$ miles northeast of Denver City. -- Evans, driller.		
Surface	3	3
Caliche	52	55
Hard rock	5	60
Yellow clay	10	70
Sand, water	54	124
Shell of rock	11	135
Yellow clay	5	140
Blue shale	30	170
Red clay	46	216
Yellow clay	24	240
Sandy lime	18	258
Red clay	5	263
Sand, water	17	280
Sand, dry	42	322
Red clay	18	340

Partial analyses of water from wells in Yoakum 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. F. 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 <sub>3</sub> )	Sulfate (SO <sub>4</sub> ) (turb.)	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
1	Ty Field	125	Nov. 7, 1944	-	-	-	-	296	260	129	-	-	a/510
2	do.	156	do.	-	-	-	-	216	160	78	-	-	a/442
3	do.	120	do.	-	-	-	-	211	80	39	-	-	a/308
4	do.	175	do.	-	-	-	-	219	200	56	-	-	a/368
5	Clyde Chandler	145	Nov. 3, 1944	-	-	-	-	216	270	156	-	-	a/519
6	Mrs. P. H. Williams	120	Nov. 4, 1944	-	-	-	-	253	130	44	-	-	a/360
7	do.	85	Nov. 6, 1944	-	-	-	-	230	150	65	-	-	a/345
8	Ty Field	56	Nov. 7, 1944	430	56	29	36	256	b/79	31	-	1.2	259
9	Anita Field	60	Nov. 6, 1944	-	-	-	-	260	60	40	-	-	a/252
11	H. B. Price	67	Nov. 11, 1944	-	-	-	-	204	190	130	-	-	a/498
12	A. H. Borland	72	do.	-	-	-	-	98	260	132	-	-	a/510
13	Mrs. A. Weems	78	do.	-	-	-	-	274	105	61	-	-	a/231
14	E. Hayes Sieber	96	Nov. 7, 1944	-	-	-	-	262	95	46	-	-	a/231
15	A. L. Smith	69	Nov. 11, 1944	-	-	-	-	154	95	58	-	-	a/204
16	D. E. Harris	124	Nov. 7, 1944	-	-	-	-	240	220	70	-	-	a/442
17	W. V. Starnes	101	do.	-	-	-	-	251	140	124	-	-	a/532
18	W. S. Huges	275	Nov. 10, 1944	1,230	26	15	409	254	b/314	340	-	1.8	126
19	do.	100	Nov. 6, 1944	-	-	-	-	220	555	352	-	-	a/1,100
20	F. D. Webb	100	do.	-	-	-	-	249	130	60	-	-	a/375
21	M. W. Luna	106	Nov. 3, 1944	-	-	-	-	192	230	98	-	-	a/354
22	do.	310	Nov. 4, 1944	-	-	-	-	238	85	69	-	-	a/390
24	Ellen Keller	90	Nov. 2, 1944	-	-	-	-	203	140	55	-	-	a/292
26	Mrs. P. H. Williams	98	do.	675	69	44	80	260	b/203	66	-	12	353
29	do.	135	Nov. 9, 1944	-	-	-	-	132	130	160	-	-	a/345
31	T. I. Bedford	74	Nov. 2, 1944	-	-	-	-	245	280	157	-	-	a/502
32	Marshall Kendrick	121	do.	-	-	-	-	132	260	250	-	-	a/795
33	J. S. Dorton Est.	160	do.	-	-	-	-	241	280	169	-	-	a/465
35	T. I. Bedford	110	do.	-	-	-	-	256	95	89	-	-	a/309
36	do.	120	do.	-	-	-	-	204	60	57	-	-	a/336

a/ Total hardness by soap method.

b/ Sulfate determined.

Partial analyses of water from wells in Yoakum 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 <sub>3</sub> )	Sulfate (SO <sub>4</sub> ) (turb.)	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.) <sup>a</sup>
38	Fred W. Frost	130	Nov. 14, 1944	538	71	34	53	278	b/ 96	72	--	3.8	317
39	J. H. Beshears	157	Oct. 28, 1944	--	--	--	--	264	240	228	--	--	a/ 483
40	Davis Beasley	150	do.	--	--	--	--	250	85	65	--	--	a/ 276
41	J.B. and L.B. Curtis	154	do.	--	--	--	--	247	160	86	--	--	a/ 315
42	Mrs. T. F. Johnson	164	Oct. 27, 1944	--	--	--	--	257	170	98	--	--	a/ 290
43	Luther Heath	150	Oct. 28, 1944	--	--	--	--	268	140	120	--	--	a/ 354
44	J. W. Walsler, Estate	128	Oct. 30, 1944	--	--	--	--	282	90	97	--	--	a/ 300
45	Henry D. Heath	135	Oct. 28, 1944	--	--	--	--	242	90	59	--	--	a/ 336
46	T. C. Marshall	149	Oct. 30, 1944	--	--	--	--	270	80	70	--	--	a/ 270
47	P. M. Williams	167	Oct. 31, 1944	--	--	--	--	320	160	114	--	--	a/ 444
48	H. F. Brooks	150	do.	671	43	64	92	230	b/197	124	--	2.5	370
50	J. E. Bryson	150	Oct. 30, 1944	--	--	--	--	348	85	49	--	--	a/ 291
51	S. E. Kone	140	Oct. 31, 1944	--	--	--	--	338	160	86	--	--	a/ 288
52	G. W. Henson	357	do.	1,110	5.4	2.1	406	350	b/284	224	2.5	0	22
53	A. G. Brantley	150	do.	--	--	--	--	314	110	69	--	--	a/ 312
54	K. W. Whisenant	160	do.	--	--	--	--	340	360	99	--	--	a/ 369
55	C. B. Worsham	180	do.	--	--	--	--	352	80	115	--	--	a/ 459
56	I. Stewart	156	Oct. 30, 1944	--	--	--	--	292	360	143	--	--	a/ 405
57	L. D. Garrett	135	Oct. 31, 1944	--	--	--	--	346	100	80	--	--	a/ 252
59	E. T. Powell, Estate	165	Nov. 1, 1944	795	57	58	125	326	b/237	96	--	3.6	331
60	J. W. Moore, Jr.	127	Oct. 30, 1944	--	--	--	--	324	340	150	--	--	a/ 477
61	T. C. Oxford	140	do.	--	--	--	--	190	900	136	--	--	a/1,100
62	Johnnie Fitzgerald	140	Nov. 1, 1944	--	--	--	--	219	500	195	--	--	a/ 660
63	Roy Fitzgerald	85	Nov. 8, 1944	--	--	--	--	350	38	16	--	--	a/ 405
64	M. McGinty	130	Oct. 27, 1944	--	--	--	--	224	440	121	--	--	a/ 603
65	D. B. McGinty	128	Oct. 30, 1944	1,490	114	111	213	241	b/779	102	5.5	8.0	741
67	M. W. Luna	100	Nov. 6, 1944	--	--	--	--	255	280	102	--	--	a/ 458
68	Roy Fitzgerald	125	Nov. 14, 1944	--	--	--	--	288	130	126	--	--	a/ 832
70	Morris Lowe	100	Nov. 1, 1944	--	--	--	--	172	130	232	--	--	a/ 351
72	Sid Mayfield	125	do.	--	--	--	--	240	360	232	--	--	a/ 780
73	Fay Morland	130	do.	--	--	--	--	198	600	475	--	--	a/1,220

a/ Total hardness by soap method.

b/ Sulfate determined.

Partial analyses of water from wells in Yoakum 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 <sub>3</sub> )	Sulfate (SO <sub>4</sub> ) (turb.)	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
74	Mary V. Anderson	378	Nov. 1, 1944	-	-	-	-	322	480	618	-	-	a/ 682
75	Dick Brownfield	48	Nov. 15, 1944	-	-	-	-	350	130	151	-	-	a/ 606
76	do.	90	Nov. 16, 1944	-	-	-	-	234	130	170	-	-	a/ 825
79	Ruth Bennett	154	Nov. 14, 1944	-	-	-	-	192	110	190	-	-	a/ 462
80	Mrs. Stella M. Smith	100	Nov. 1, 1944	-	-	-	-	232	360	111	-	-	a/ 592
81	B. B. Carpenter	119	Nov. 14, 1944	-	-	-	-	272	230	249	-	-	a/ 960
82	S. J. Dixon	152	do.	-	-	-	-	254	250	430	-	-	a/ 1,320
84	do.	120	do.	-	-	-	-	203	115	112	-	-	a/ 522
86	— Sawyer	108	Nov. 9, 1944	-	-	-	-	278	230	161	-	-	a/ 562
87	A. J. Davis	130	do.	-	-	-	-	273	360	288	-	-	a/ 585
88	Robt. Chambliss	110	do.	-	-	-	-	245	190	144	-	-	a/ 540
89	Geo. Cleveland	63	do.	-	-	-	-	230	140	76	-	-	a/ 390
90	Mrs. Leroy McCravey	100	Nov. 11, 1944	-	-	-	-	388	210	206	-	-	a/ 855
91	J. S. Wagley	100	do.	608	84	36	53	266	b/150	68	-	3.2	358
92	Geo. Haywood	68	do.	-	-	-	-	232	100	66	-	-	a/ 258
94	T. F. Fillingim	80	Nov. 13, 1944	-	-	-	-	109	105	72	-	-	a/ 222
95	J. B. Lewis	70	do.	588	83	25	58	228	b/129	70	1.3	16	310
96	Seawalt and Roberts	82	do.	-	-	-	-	116	75	50	-	-	a/ 180
97	L. B. Tennehill	65	do.	-	-	-	-	244	70	44	-	-	a/ 234
98	F. P. Stanford	91	do.	-	-	-	-	280	75	48	-	-	a/ 354
99	J. F. Stokes	90	do.	-	-	-	-	236	220	143	-	-	a/ 360
100	C. A. Hudson	100	do.	-	-	-	-	238	90	49	-	-	a/ 270
102	E. Keller	132	do.	-	-	-	-	242	130	94	-	-	a/ 276
105	N. W. Willard	105	Nov. 8, 1944	-	-	-	-	244	160	132	-	-	a/ 480
106	Pat H. Crow	69	Nov. 9, 1944	-	-	-	-	148	90	124	-	-	a/ 390
107	Geo. Cleveland	48	do.	-	-	-	-	242	110	114	-	-	a/ 360
108	Dan Allen	92	do.	-	-	-	-	184	130	178	-	-	a/ 522
110	W. D. Hearne, et al.	137	Nov. 8, 1944	-	-	-	-	256	220	108	-	-	a/ 488
112	Josie L. Shanks	127	Nov. 14, 1944	-	-	-	-	312	90	75	-	-	a/ 456
116	Oil Development Co. of Texas	376	do.	618	49	23	113	231	b/129	96	-	3.8	217
117	Ruth Bennett	135	do.	875	60	83	89	254	b/233	165	-	2.0	491
119	Nancy Freeman	130	Nov. 15, 1944	-	-	-	-	256	120	188	-	-	a/ 585

a/ Total hardness by soap method.

b/ Sulfate determined.

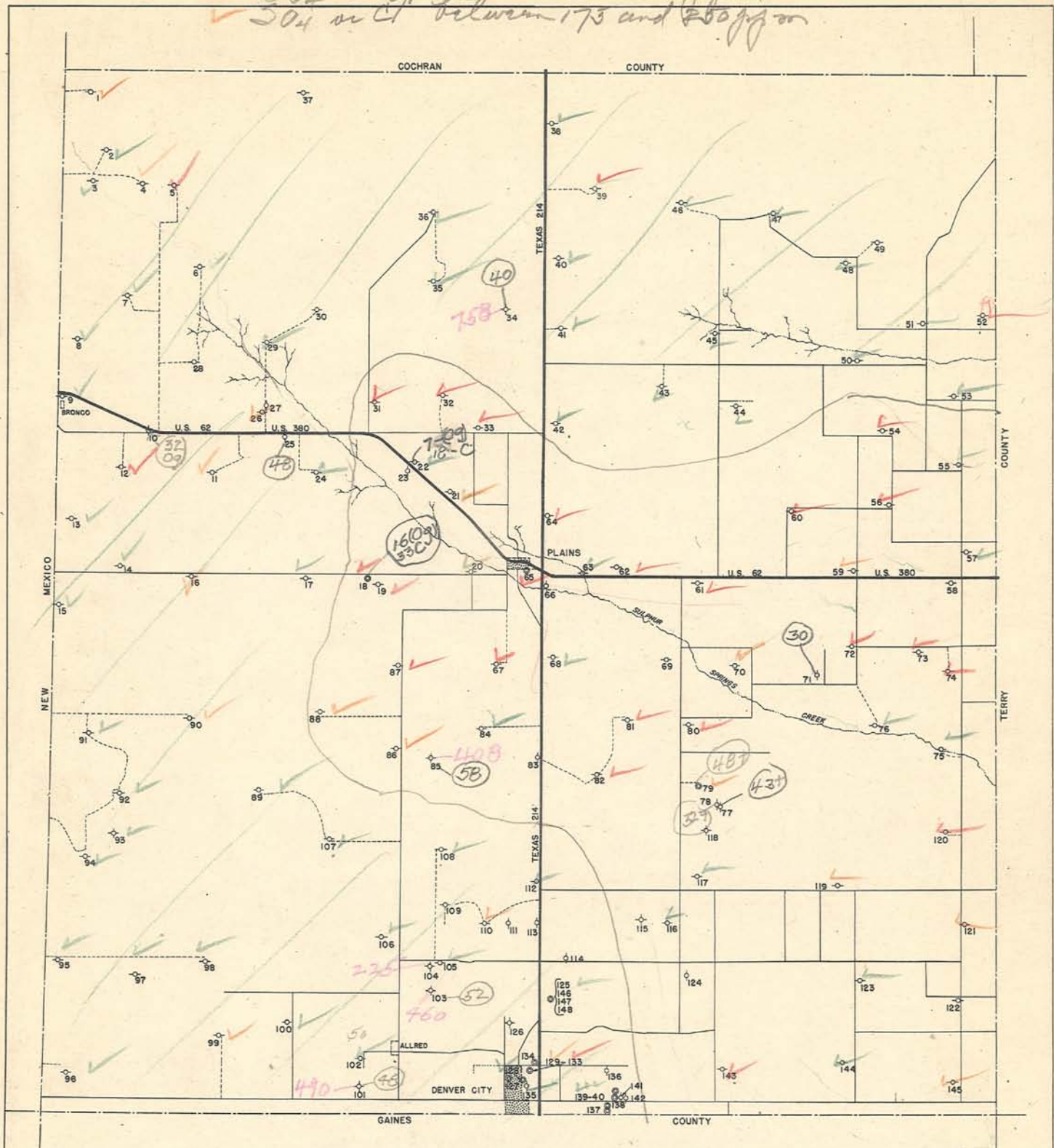
Partial analyses of water from wells in Yoakum County--Continued  
(Results are in parts per million)

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> ) (turb.)	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
120	Mrs. J. B. King	135	Nov. 15, 1944	-	-	-	-	220	260	211	-	-	a/1,260
121	J. C. Bluhm	132	do.	-	-	-	-	286	160	178	-	-	a/ 654
123	F. F. Moser	150	do.	-	-	-	-	256	130	93	-	-	a/ 360
125	Shell Oil Co.Inc.	242	Nov. 17, 1944	641	51	50	79	238	b/162	98	-	2.8	333
127	Denver City	178	May 24, 1944	559	62	33	44	229	b/110	51	2.7	5.5	290
128	do.	180											
129	Shell Oil Co.Inc.	337	Nov. 16, 1944	798	43	19	216	303	b/138	180	2.1	2.8	186
130	do.	172	do.	846	116	59	75	251	b/261	151	-	5.2	532
134	Humble Oil and Refining Co.	136	do.	-	-	-	-	222	70	81	-	-	a/ 384
139	Southwestern Public Service Co.	151	Nov. 17, 1944	498	57	38	43	250	b/ 99	57	-	4.9	298
140	do.	156	do.	480	56	37	37	231	b/ 96	56	-	5.0	292
143	Annie Armstrong	97	Nov. 15, 1944	-	-	-	-	176	130	226	-	-	a/ 690
144	Elias Ivy	142	do.	-	-	-	-	256	120	78	-	-	a/ 564
145	Mrs. J. W. Cotton	170	do.	806	55	82	83	257	b/222	150	-	2.0	474

a/ Total hardness by soap method.

b/ Sulfate determined.

✓ SO<sub>4</sub> and Cl less than 250 ppm  
 ✓ SO<sub>4</sub> or Cl more than 250 ppm  
 ✓ SO<sub>4</sub> or Cl between 175 and 250 ppm



EXPLANATION

- WELL WITH WINDMILL OR SMALL POWER PUMP
- WELL WITH PUMPING PLANT—5 HORSE-POWER OR LARGER
- ◇ UNUSED WELL
- ✦ WELL DRILLED TO TEST FOR OIL OR GAS
- U.S. OR TEXAS HIGHWAY
- COUNTY ROAD
- - - RANCH TRAIL

MAP OF YOAKUM COUNTY, TEXAS  
SHOWING WATER WELLS

SCALE OF MILES



BASE COMPILED FROM  
HIGHWAY PLANNING SURVEY  
MAP AND FIELD NOTES

TEXAS BOARD OF  
WATER ENGINEERS  
ASSISTED BY  
U.S. GEOLOGICAL SURVEY

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