

**TEXAS BOARD OF WATER ENGINEERS**

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**MILAM COUNTY, TEXAS**

**PREPARED IN COOPERATION WITH THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY**

**MARCH 1937**

**REPRINTED MAY 1950**

MILAM COUNTY, TEXAS

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Introduction

by

Samuel F. Turner

Associate Hydraulic Engineer

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and to put down test holes where additional information was needed.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of The University of Texas furnished laboratory space and equipment and supervised the chemical analyses.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Board of Water Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Milam County was started on March 10, 1936. The project was shut down on June 30, was started again on July 27, and was completed on August 31, 1936. This project was Project 3763 of District 9 of the Works Progress Administration, Austin, Texas. W. I. Clark, Jr., a geologist, was project superintendent. Mr. Clark deserves great credit for his work and for the many extra hours he spent on the project. The Austin office of the Works Progress Administration made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the folded map in the back of the release.

The test wells were drilled by W. P. A. labor using a soil auger, drop auger, churn drill, and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendent studied these samples and compiled the logs.

Records of wells and springs in Milam County, Texas  
 (All wells are dug unless otherwise indicated in "Remarks" column.)  
 (See "Logs of W. P. A. test wells" for all records of test wells.)

No.	Distance from Davilla	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a</sup>	Water Level	
								Depth below measuring point (feet)	Date of measurement
d/ 1	9 miles northeast	-- Hard	Robt. R. Penn	--	2,808	--	--	--	--
3	2½ miles northeast	Dallas Bank & Trust Co.	--	1925	12	30	3.0	6.0	Apr. 27, 1936
4	6½ miles north	R.L. Batte	--	Old	30	30	0	27.6	do.
6	7 miles northeast	R. Gersbach	--	1934	17	30	3.0	16.3	do.
7	5 miles northeast	Logan Mewhinney	--	1935	8	48	3.0	7.7	Mar. 30, 1936
8	4 miles northeast	W.H. Walker	--	Old	20	36	2.5	20.5	do.
9	3½ miles northeast	W.R. Cryer	--	--	Spring	--	--	Flows	do.
10	3 miles northeast	Tom Henderson	--	Old	15	60	0	13.1	do.
11	2½ miles northeast	T.B. Burdette	--	Old	24	30	4.0	24.8	Mar. 28, 1936
12	3½ miles northeast	J.C. Johnsén	--	Old	35	30	3.0	34.1	do.
13	3¼ miles north	G.A. Krause	--	Old	23	36	1.0	13.6	do.
14	do.	do.	--	--	Spring	--	--	Flows	do.
16	1¼ miles northeast	H.L. Harris	--	1906	14	30	2.0	12.7	do.
17	½ mile west	John Wilson	--	Old	48	30	1.5	46.6	do.
18	1½ miles southwest	Tom R. Rogers	--	Old	31	36	0	29.8	do.
20	2 miles east	W. P. Ross Est.	--	1900	12	30	1.0	7.6	Mar. 30, 1936
21	do.	E.B. Flore	--	1916	20	30	1.5	18.5	do.
22	3 miles east	P.E. Holder	--	1900	23	30	3.0	20.7	do.
23	5½ miles east	Sam Mewhinney	--	1905	18	30	3.0	16.3	do.
24	5 miles east	Henry McCormick	--	1915	15	60	3.0	12.3	Mar. 19, 1936
26	5½ miles east	Sam Mewhinney	--	1912	1,500	10	0	Flows	Mar. 30, 1936
27	6 miles east	Dr. J. R. Seibert	--	Old	14	30	3.5	6.8	Mar. 19, 1936
d/ 28	6½ miles east	L. Sypert	Chicago Oil & Gas Co.	--	705	--	--	--	--
29	7 miles east	John Young	--	Old	23	48	3.0	18.2	Mar. 19, 1936

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

Records obtained by W. I. Clark, Jr., Project Superintendent.  
(Chemical analyses of water from these wells and springs are in table of analyses.)

No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
1	---	---	---	Drilled well. See log.
3	B,H	D,S	Base of slope	Brick curb; brick casing, top to bottom. Failed in 1923. Reported water in gravelly sand over chalky clay.
4	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Fails in drought. Reported water in sand and gravel.
6	B,H	D,S	Ridge-top	Concrete curb; 20 feet concrete casing at top. Nearly fails in summer. Reported water in fine sand.
7	B,H	D,S	Flat	Wood curb; 3 feet wood casing at top. Never fails. Reported water in small gravel under 2 inches of rock.
8	B,H	D,S	Gentle slope	Brick curb; 22½ feet loose brick casing at top. Never fails. Reported water in loose gravel.
9	None	D,S	Hill-side	Estimated flow: 3 gallons a minute from fine sand and gravel. Never fails.
10	B,H	D,S	Gentle slope	No curb; no casing. Never fails. Reported water in white sandy clay.
11	B,H	D,S	do.	Concrete curb; 27 feet concrete casing at top. Nearly fails in summer. Reported water in sandy gravel.
12	C,W	D,S	do.	Wood curb; brick casing, top to bottom. Cannot be pumped dry. Reported water in gravel and sand.
13	C,W	D,S	Ridge-top	Brick curb; 22½ feet brick casing at top. Cannot be pumped dry. Reported water in gravelly sand.
14	None	D	Base of hill	Estimated flow: 2 gallons a minute from gravel with fine, bluish white silt. Never fails.
16	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine sand and gravel.
17	C,W	---	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in fine sand and gravel.
18	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Reported 3 barrels of water pumped from well but refilled in ½ hour.
20	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Cannot be bailed dry. Reported water in fine sand and gravel.
21	B,H	D,S	do.	Concrete curb; 14 feet concrete casing at top. Never fails. Water in white sand and gravel under 7 feet of rock.
22	C,H	D,S	do.	Concrete curb; 18½ feet concrete casing at top. Never fails. Water in gravel under 2½ feet of rock.
23	C,W	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel.
24	B,H	D,S	Top of knoll	Wood curb; no casing. Never fails. Reported log: 5 feet of clay and gravel, 2 feet of rock, 3 feet of shale, and 5
26	None	N	Flat	Drilled well. Oil test. Small flow. Reported water tastes salty. Some natural gas. <span style="border: 1px solid black; padding: 2px;">feet of gravel.</span>
27	B,H	D,S	Ridge-top	Concrete curb; concrete casing, top to bottom. Nearly fails in summer. Reported water in gravel.
28	---	---	---	Drilled well. Oil test. See log.
29	B,H	D	Gentle slope	Wood curb; concrete casing, top to bottom. Nearly fails in drought. Reported water in gravel.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Milam County---Continued.

No.	Distance from Davilla	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a</sup>	Water Level	
								Depth below measuring point (feet)	Date of measurement
30	4½ miles east	Chas. Stegall	--	Old	12	30	3.0	11.9	Mar. 30, 1936
31	2½ miles east	Dr. T. S. Barclay	--	1929	43	30	3.0	45.3	Mar. 26, 1936
32	1½ miles southeast	Clarence Hines	--	1899	55	30	3.0	53.8	do.
33	do.	H.H. Hines	--	Old	50	36	3.0	49.4	do.
35	2¼ miles south	W.A. Turner	--	Old	24	36	3.0	24.4	Apr. 4, 1936
36	2¾ miles southeast	R.L. Carlow	--	Old	27	30	2.0	25.4	do.
37	3½ miles south	J.D. Bell	--	--	Spring	--	--	Flows	do.
38	4 miles south	F. Jechow	--	Old	23	48	3.0	24.0	do.
40	4½ miles southeast	Joe Vanek	--	1926	18	30	2.0	17.3	Mar. 31, 1936
42	6 miles south	Jess Isaac	--	1906	18	36	2.0	16.9	do.
43	7 miles southeast	Barclay Est.	--	Old	16	48	1.0	11.7	Apr. 1, 1936
44	do.	Harding Camp	--	Old	30	30	3.0	29.0	do.
45	6 miles southeast	Alton Osliek	--	1922	13	48	3.0	4.9	do.
46	6½ miles southeast	J.A. Heisch	--	1925	19	30	3.0	10.2	do.
48	do.	Geo. Gamble	--	1890	11	30	3.0	6.5	Mar. 20, 1936
49	do.	Henry Von Gonten	--	1910	14	30	3.0	10.1	do.
d/ 51	4½ miles southeast	J.D. Anderson	--	Old	16	30	3.0	13.4	Apr. 4, 1936
52	3½ miles southeast	Rufe Graves	--	Old	22	30	2.0	20.2	Mar. 31, 1936
53	3¾ miles southeast	Earl Straus	--	Old	44	30	2.0	44.1	Mar. 26, 1936
d/ 54	5½ miles southeast	Mrs. T.S. Barclay	--	1926	24	30	3.5	22.0	Mar. 13, 1936
56	6 miles southeast	F.S. Bolton	--	1910	17	30	2.7	14.3	Mar. 14, 1936
58	do.	L.C. Applin	--	1840	15	30	2.8	4.7	do.
59	6 miles east	J.J. Brock	--	1925	10	30	1.7	11.7	Mar. 13, 1936
60	do.	Paul Graves	--	--	Spring	--	--	Flows	Mar. 19, 1936
61	6½ miles east	J.C. Hardie	J. C. Hardie	1887	18	60	0	10.3	Mar. 13, 1936
64	7 miles east	J.W. Brown	--	1890	15	36	2.0	9.0	Mar. 12, 1936

## W. I. Clark, Jr., Project Superintendent.

No.	Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
30	B.H	D.S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel.
31	B.H	D.S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in gravel and clay.
32	C.W	S	do.	Wood curb; brick casing, top to bottom. Cannot be pumped dry. Reported water in loose gravel.
33	B.H	D.S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in gravel.
35	B.H	D.S	Ridge- top	Brick curb; 8 feet brick casing at top. Never fails. Reported water in loose gravel under 15 feet of rock.
36	B.H	D.S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported well furnishes 4 barrels of water an hour from gra-
37	None	D.S	Base of ridge	Estimated flow: 5 gallons a minute from gravel. Never fails. vel.
38	B.H	D.S	Gentle slope	Brick curb; 8 feet brick casing at top. Never fails. Water in gravel under 14 feet of rock. Reported furnishes 9 bar-
40	B.H	D	Hilltop	Concrete curb; concrete casing, top to bottom. Nearly fails in drought. Reported hard water in gravel. rels an hour.
42	B.H	D	Gentle slope	Brick curb; brick casing, top to bottom. Never fails. Reported water in sand.
43	B.H	D.S	do.	Concrete curb; concrete casing, top to bottom. Cannot be bailed dry. Reported hard water in gravel.
44	B.H	D	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in gravel.
45	B.H	D.S	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in yellow sandy gravel above clay.
46	B.H	D.S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in sandy gravel under 1 foot of clay.
48	B.H	D.S	Valley floor	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel above blue shale.
49	B.H	D.S	Gentle slope	Brick curb; brick casing, top to bottom. Never fails. Reported hard water in white sand containing clay balls.
51	B.H	D.S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in loose gravel under 3 feet of rock.
52	C.W	S	do.	Concrete curb; 15 feet concrete casing at top. Never fails. Reported water in fine sand and gravel under 4 feet of rock.
53	B.H	D.S	Hilltop	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in gravel.
54	B.H	D.S	Rolling upland	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in white sand.
56	B.H	D.S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in yellow gravel.
58	B.H	D.S	do.	Concrete curb; stone casing, top to bottom. Never fails. Reported water in white sand over soapstone.
59	B.H	D	do.	Concrete curb; concrete casing, top to bottom. Fails in drought. Reported water in yellow gravel.
60	None	S	do.	Estimated flow: 5 gallons a minute from 2 openings in gray clay veined with gravel and sand. Never fails.
61	B.H	D.S	Ridge- top	Wood curb; no casing. Failed twice in 30 years. Reported water in 4 feet of white, sandy clay.
64	B.H	D	Rolling upland	Concrete curb; stone and wood casing, top to bottom. Never fails. Reported water in yellow, sandy gravel.

Records of wells and springs in Milam County--Continued.

No.	Distance from Davilla	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>	Water Level	
								Depth below measuring point (feet)	Date of measurement
65	7 miles east	Dan G. Davis	--	Old	14	30	2.5	9.6	Mar. 18, 1936
69	8 miles east	Peter Miick	--	1915	18	30	2.0	12.6	Mar. 20, 1936
71	8½ miles east	Frank Hertenberger	--	1905	40	48	3.5	39.4	Mar. 18, 1936
72	9½ miles east	B. J. Baskin	--	1900	28	30	3.0	28.3	do.
73	9 miles east	Bill Davis	--	Old	37	30	3.0	38.9	do.
76	do.	Emil Schroder	--	Old	14	36	2.5	14.5	Mar. 19, 1936
77	9 miles southeast	W. G. Schwarz	--	1900	34	30	3.0	28.2	do.
78	do.	E. C. Fick	--	1900	18	30	3.0	14.4	do.
79	9½ miles southeast	W. G. Schwarz	--	--	Spring	--	--	Flows	do.
80	do.	Chas. R. Duncan	--	1924	20	30	2.0	18.5	do.
81	10 miles southeast	Mrs. W. F. Duncan	--	1900	15	30	4.0	8.9	do.
82	10 miles east	M. M. Harris	--	1912	16	36	1.0	12.6	Mar. 27, 1936
83	do.	Jim Bartlett	--	1936	15	30	3.0	10.8	Mar. 26, 1936
85	10½ miles east	R. L. Tucker	--	Old	30	30	3.0	32.8	Mar. 37, 1936
86	11 miles east	Henry Platte	--	1926	20	30	3.0	20.1	Mar. 26, 1936
87	do.	J.C. Charles Est.	--	Old	25	36	3.0	23.8	Mar. 27, 1936
88	11½ miles east	do.	--	1890	30	36	3.0	30.3	do.
89	do.	State of Texas	--	--	Spring	--	--	Flows	do.
90	do.	W.H. McCoy	--	1928	30	30	3.0	29.8	Mar. 26, 1936
91	12½ miles east	Ross Davis	--	Old	33	30	3.0	32.0	Apr. 7, 1936
d/ 92	11½ miles east	do.	--	1925	340	6-5/8	--	--	--
93	13 miles east	Ernest Gilliland	Ernest Gilliland	1925	20	30	0.5	15.5	Apr. 7, 1936

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine, W, windmill; H, hand; number indicates horsepower.

W. I. Clark, Project Superintendent

No.	Pump and power: b/	Use of water: c/	Topographic situation	Remarks
65	C,W	D	Gentle slope	Brick curb; brick casing, top to bottom. Never fails. Reported water in small gravel containing fossils.
69	B,H	S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel.
71	C,W	S	Flat	Steel curb; brick casing, top to bottom. Reported log: 5 feet black soil, 30 feet gray and yellow clay, 5 feet sandy
72	C,W	D,S	Hill-side	Concrete curb; concrete casing, top to bottom. <u>gravel.</u> Never fails. Reported water hard.
73	B,H	D	Flat	Brick curb; brick casing, top to bottom. Strong supply. Reported hard water in yellow clay.
76	B,H	--	Gentle slope	Wood curb; brick casing, top to bottom. Nearly fails in summer. Reported water in red clay with sand veins under
77	B,H	S	do.	Brick curb; brick casing, top to bottom. <u>blue shale.</u> Never fails. Reported hard water in gravel.
78	C,G,I	D,S	Slope	Wood curb; wood casing, top to bottom. Never fails. Reported soft water in gravel.
79	None	S	Head of valley	Estimated flow: 2 gallons a minute from gravel and clay. Never fails.
80	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. 2 feet of loose brick in bottom. Nearly fails in drought. Reported
81	B,H	D,S	Slope	Brick curb; Never fails. Reported hard <u>water in gravel.</u> water in gravel over shale.
82	B,H	D,S	Gentle slope	Brick curb; concrete casing, top to bottom. Never fails. Reported water in fine, sandy gravel under 8 feet of gray clay.
83	B,H	D,S	Head of draw	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine sand and gravel under 10 feet of clay.
85	C,W	D,S	Ridge-top	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in sandy gravel.
86	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in 2 feet of sandy gravel under 15 feet of
87	C,W	D,S	do.	Brick curb; brick casing, top to bottom. Can- <u>chalky clay.</u> not be pumped dry. Reported water in white, sandy gravel.
88	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in packed, sandy gravel under white, chalky clay.
89	None	-- River	Foot of terrace	Estimated flow: 1 gallon a minute from 4 openings in sandy clay under 2 feet of packed gravel and clay.
90	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails, but weak supply. Reported water in gravel.
91	B,H	N	do.	Concrete curb; concrete casing, top to bottom. Nearly fails in summer. Reported water in sand.
92	--	--	--	Drilled oil well. Reported only water encountered was weak supply at 25-30 feet.
93	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to botto.. Nearly fails in drought. Reported water in sandy gravel below white, chalky clay.

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

d/No water sample collected for analysis.

e/Water level reported.



Records of wells and springs in Milam County--Continued.

No.	Distance from Cameron	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>	Water Level	
								Depth below measuring point (feet)	Date of measurement
100	7½ miles south	Nichaus Estate	---	1935	160	6-5/8	1.0	60.1	Apr. 8, 1936
102	7 miles south	Mrs. Ben McClelland	---	1910	32	30	4.0	32.9	Apr. 6, 1936
103	6½ miles south	J. W. Kemp	---	Old	30	30	0	23.0	do.
104	do.	do.	---	1933	200	6-5/8	1.5	46.2	do.
105	do.	Frank Hubert	---	1910	43	30	3.0	35.7	Apr. 11, 1936
106	do.	E.D. Leadwell	---	1935	150	6-5/8	0	60.0	May 2, 1936 e/
d/107	6 miles southwest	R.L. Batte	Alexander and Lyles	---	3,137	---	---	---	---
112	4½ miles southwest	Cole Ross	---	---	Spring	---	---	Flows	Mar. 16, 1936
113	4½ miles southwest	do.	---	1910	31	30	1.5	30.8	do.
115	6 miles southwest	Sam Law	---	---	Spring	---	---	Flows	May 1, 1936
d/116	do.	Baskin Bros.	---	1915	2,200	---	---	---	---
117	5½ miles west	Chester Huffman	---	1925	9	30	3.0	7.6	May 19, 1936
118	6 miles west	H.J. Havlik	---	Old	16	36	3.0	13.8	do.
119	8½ miles southwest	Joe Harellica	---	---	Spring	---	---	Flows	Mar. 18, 1936
120	do.	do.	---	1910	25	30	3.0	26.2	do.
121	9½ miles west	Jud Davis	---	1909	25	36	4.0	25.7	Apr. 14, 1936
122	do.	Louis Walshak	---	Old	14	30	3.0	11.9	do.
123	9 miles west	A.W. Zajicek	---	1898	17	72	2.0	6.5	June 11, 1936
124	8 miles west	C.P. Watt	---	1925	16	30	3.5	16.5	Apr. 14, 1936
125	7½ miles west	D.K. Hall	---	Old	13	48	4.0	12.0	do.
126	7 miles west	Mrs. J. W. McClendon	---	1926	11	30	1.0	9.4	Apr. 2, 1936
127	6 miles west	F. J. Richardson	---	Old	10	36	3.0	6.0	May 19, 1936
128	4½ miles west	Mrs. F. Shoaf	---	Old	9	30	3.0	6.1	do.
129	4½ miles west	Chas. Pavilik	---	1934	14	36	2.0	6.3	do.

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, airlift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

W. I. Clark, Jr., Project Superintendent

No.	Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
100	C,-,-	D	Gentle slope	Drilled well. Water level measured after pumped 2 hours. Never fails. Reported water in gray sand at 130-132 feet.
102	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Never fails. Reported hard water in sand.
103	C,W	D,S	Top of knoll	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sand.
104	None	N	Gentle slope	Drilled well. Strong supply. Reported water in sand, unfit for irrigation because of mineral content.
105	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in blue sand.
106	C,G,-	--	do.	Drilled well. Reported mineralized water cased off at 75 feet. Strong supply of mineral water at 110 feet in 5 feet
107	None	N	--	Drilled well. Oil test. Altitude 328 feet. of gray sand. See log.
112	None	S	Valley	Estimated flow: 2 gallons a minute from several openings in sandy gravel above blue shale. Nearly fails in drought.
113	C,G,2	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in white sand and gravel.
115	None	S	Base of hill	Estimated flow: 10 gallons a minute from 3 openings in sand under gravel hill. Never fails.
116	None	N	Gentle slope	Drilled well. Oil test. Known as Huffman No.1 on Zellnev farm. Reported strong flow of fresh water when drilled.
117	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in small gravel.
118	B,H	D,S	Slope to valley	Brick curb; brick casing, top to bottom. Never fails. Reported water in coarse gravel.
119	None	S	Hill-side	Estimated flow: 5 gallons a minute from 2 openings in sandy gravel under conglomerate containing small fossils. Never
120	B,H	D,S	Flat	Brick curb; 21 feet brick casing at top. Reported fails. water in sandy gravel under 4 feet of cemented gravel.
121	B,H	D,S	Gentle slope	Brick curb; brick casing, top to bottom. Never fails. Reported water in sandy gravel.
122	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Nearly fails in drought. Reported water in sandy gravel.
123	B,H	D	do.	Brick curb; brick casing, top to bottom. Never fails. Reported well was formerly a cistern.
124	--	S	do	Galvanized iron curb; galvanized iron casing, top to bottom. Failed in 1934. Reported water in sandy clay.
125	--	D,S	do.	Concrete curb; concrete and stone casing, top to bottom. Never fails. Reported water in fine quicksand.
126	C,W	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in yellow gravel.
127	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in gravel under gravel and clay.
128	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in gravel under gravel and clay.
129	B,H	D,S	do.	Galvanized iron curb; galvanized iron casing, top to bottom. Never fails. Reported water in gravel under chalky, yellow clay.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Milam County--Continued.

No.	Distance from Cameron	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)	Depth below measuring point (feet)	Date of measurement
131	6 miles west	M. J. Dodd	---	1931	6	30	3.0	3.4	June 13, 1936
132	4 $\frac{1}{4}$ miles west	John Hollas	---	1930	10	30	2.0	3.7	do.
133	2 $\frac{3}{4}$ miles west	Mondrick Est.	---	Old	31	30	2.0	8.8	do.
134	5 $\frac{1}{2}$ miles northwest	Mike Sipula	---	Old	31	60	4.0	13.7	May 21, 1936
135	6 miles northwest	Marak Independent School	---	Old	19	36	3.0	13.2	do.
136	5 $\frac{1}{2}$ miles northwest	Rob Fuller	---	Old	21	30	1.0	15.7	do.
137	6 $\frac{1}{2}$ miles northwest	S. D. Lagrone	---	1906	26	30	2.0	16.3	do.
d/138	7 $\frac{1}{2}$ miles northwest	J. F. Bartek	W. H. Birdwell	1934	1,924	6-5/8	---	---	---
139	8 miles northwest	Monroe Est.	---	1925	17	30	2.0	13.2	June 11, 1936
140	8 $\frac{1}{2}$ miles northwest	Emmit Coleman	---	1929	24	36	2.0	19.6	do.
141	10 $\frac{1}{2}$ miles northwest	G.K. Heugatter	---	1932	17	30	2.0	10.9	do.
142	10 miles northwest	Frank Griffin	---	1925	25	36	3.0	18.3	do.
143	9 miles northwest	Walter Fuchs	---	1900	12	30	2.0	4.6	do.
146	4 miles north	G.W. Baskin	---	1927	20	30	3.0	18.0	May 13, 1936
148	5 $\frac{1}{2}$ miles north	Dave Link	---	Old	22	30	4.0	23.1	do.
149	7 miles northeast	Phoenix Life Ins. Co.	---	1925	18	30	0	16.7	do.
150	6 miles northeast	Albert Chambers	---	---	20	30	0.5	16.0	do.
151	4 $\frac{3}{4}$ miles north	Mrs. P. M. Delahunty	---	1928	13	48	2.0	8.2	do.
152	5 miles northeast	L. C. Boyd	---	Old	12	30	2.0	2.8	June 5, 1936
154	3 miles north	Tarver and Hensley	---	Old	10	36	3.0	4.7	Apr. 18, 1936
155	2 $\frac{3}{4}$ miles north	Mrs. Jeff Kemp	---	---	20	30	0.5	16.4	do.
156	do.	do.	---	---	Spring	---	---	Flows	do.
157	2 $\frac{1}{4}$ miles north	L.A. Michalka	---	1934	19	30	3.0	14.4	do.
158	do.	John Hause	---	1913	13	36	3.0	5.0	Apr. 17, 1936
159	1 $\frac{1}{2}$ miles north	R.L. Batte	---	1924	14	30	3.0	10.3	do.
160	1 mile north	Clark Kelly	---	1931	21	60	1.0	17.9	do.

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No.	Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
131	B,H	D,S	Head of draw	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel.
132	B,H	S	Gentle slope	Concrete curb; concrete casing, top to bottom. Nearly fails in drought. Reported hard water in sandy gravel.
133	B,H	D,S	do.	Wood curb; brick casing, top to bottom. Nearly fails in drought. Reported hard water in sandy gravel.
134	B,H	D,S	do.	Wood curb; brick casing, top to bottom. Never fails. Reported hard water in gravel.
135	B,H	D,P	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in gravel.
136	B,H	S	do.	Concrete curb; concrete casing, top to bottom. Strong supply. Reported hard water with salty taste in gravel.
137	B,H	D,S	Flat	Concrete curb; concrete and brick casing, top to bottom. Never fails. Reported water in sandy gravel under chalky clay.
138	--	--	Wide valley	Drilled well. Oil test. 1,568 feet of 6-5/8-inch steel casing. Reported flow of hot sulphur water shut off cil. See log.
139	B,H	D,S	Flat	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy clay.
140	B,H	S	do.	Brick curb; brick casing, top to bottom. Nearly fails in summer. Reported hard water in sandy gravel.
141	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Nearly fails in drought. Reported hard water in sandy gravel and clay.
142	B,H	S	do.	Wood curb; wood casing, top to bottom. Nearly fails in summer. Reported hard water in sandy gravel and clay.
143	B,H	D,S	Gentle slope	Brick curb; brick casing, top to bottom. Never fails. Reported hard water in sandy gravel.
146	B,H	--	Side of draw	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in loose, sandy gravel.
148	B,H	D,S	Gentle slope	Wood curb; wood casing, top to bottom. Never fails. Reported hard water in hard sand below black gumbo and gravel.
149	B,H	D	do.	No curb; concrete casing, top to bottom. Nearly fails in summer. Reported water in sandy gravel.
150	C,W	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel below black gumbo and clay.
151	B,H	D,S	do.	Wood curb; wood casing, top to bottom. Never fails. Reported water in small gravel below black gumbo and gravel.
152	B,H	S	Hill-side	Wood curb; wood casing, top to bottom. Never fails. Reported water in gravel below white gravelly clay.
154	B,H	D,S	Edge of valley	Brick curb; brick casing, top to bottom. Never fails. Reported water in sandy gravel.
155	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in sandy gravel.
156	None	I,S	Edge of valley	Water flows from 3 openings in sandy gravel below clay. Never fails.
157	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandy gravel below sandy shale.
158	--	S	do.	Wood curb; wood casing, top to bottom. Never fails. Reported water in sand and small gravel containing fossil bones.
159	B,H	D	do.	Wood curb; concrete casing, top to bottom. Never fails. Reported water in small gravel.
160	Cf,E, 5	I	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported produces 100 gallons a minute from gravel. Irrigates 12 acre nursery.

Records of wells and springs in Milam County--Continued.

No.	Distance from Cameron	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a</sup>	Water Level	
								Depth below measuring point (feet)	Date of measurement
161	1½ miles northeast	R.L. Batte	---	1936	20	---	0	17.7	Apr. 18, 1936
162	½ mile north	F. J. Fahrendorf	---	old	17	30	3.0	17.7	Apr. 17, 1936
164	½ mile east	Mrs. W. T. Hefley	---	---	Spring	---	---	Flows	do.
165	4 miles southeast	John McClerren, Jr.	---	old	19	30	2.0	14.3	June 4, 1936
169	6 miles southeast	Clyde Hensley	---	old	23	30	1.5	22.8	Apr. 22, 1936
170	do.	T.S. Henderson	---	---	13	36	1.0	10.8	do.
171	6½ miles southeast	Ben Burrie	---	---	42	24	2.0	36.6	do.
172	7 miles east	Max Kennedy	---	1932	44	48	3.0	40.4	do.
173	6 miles east	Boaz Matocha	---	1928	64	30	3.0	65.1	do.
174	4 miles east	Neal Ethridge	---	old	17	30	2.0	15.8	do.
175	do.	N. Y. Hays	---	1912	120	8	1.0	99.9	June 4, 1936
176	6 miles east	L. N. Posey	---	1916	46	---	2.0	38.6	Apr. 28, 1936
177	6½ miles east	do.	Coffield and Hale	1928	3890	10	---	Flows	do.
178	4½ miles east	John McDermott	---	old	52	48	2.0	50.6	June 4, 1936
179	6 miles east	do.	---	---	Spring	---	---	Flows	June 19, 1936
d/180	do.	--- Tyson	Underwriters Oil Co.	---	2,154	---	---	---	---
181	do.	J.P. Wise	---	1925	35	40	3.0	33.9	May 4, 1936
182	5½ miles northeast	J.H. McDonald	---	old	28	36	3.0	23.6	June 5, 1936
183	6½ miles northeast	Jim Sherfield	---	1890	24	48	3.0	19.3	do.
184	7½ miles northeast	H. H. Hartsfield	---	1928	23	30	2.0	16.7	do.
185	8½ miles northeast	A.G. Fipps	---	old	44	36	3.0	43.6	do.
186	9½ miles northeast	Mrs. Bill Lindsey	---	1890	57	30	2.0	56.6	do.

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.  
 b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

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No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
161	--	D	Gentle slope	Curb and casing not completed. Reported water in sandy, yellow gravel with fossil shells under 6 $\frac{1}{2}$ feet of soft limestone.
162	B,H	D	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in small gravel.
164	None	I	Hillside	Estimated flow: 50 gallons a minute from 7 openings in fine, gray sand. Never fails. Used for irrigation and supplies fishing lake.
165	C,W	D,S,I	Hilltop	Concrete curb; concrete casing, top to bottom. Strong supply. Reported water in fine white sand.
169	B,H	D,S	Ridgetop	Concrete curb; concrete casing, top to bottom. Reported water in white sand.
170	B,H	D,S	Side of hollow	Rock curb; rock casing, top to bottom. Reported water enters at 8 feet in winter and in bottom from white quicksand in summer.
171	B,H	D,S	Hilltop	Concrete curb; concrete casing, top to bottom. Reported water in white quicksand below 10 feet of slatey shale rock.
172	B,H	D	Gentle slope	Wood curb; concrete casing, top to bottom. Never fails. Reported water in yellow sand.
173	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Strong supply. Reported water in sand.
174	B,H	D,S	Ridgetop	Wood curb; concrete casing, top to bottom. Never fails. Reported water in sand.
175	C,W	D,S	Small knoll	Drilled well. 8-inch casing, top to bottom, bottom 20 feet perforated. Strong well. Reported water in gray sand.
176	C,W	S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine sand.
177	None	D,S	Flat valley	Drilled well. Former oil test. Plugged back to 820 feet. Reported water flowing from 10 feet of gravel. Altitude 420 feet. See log.
178	B,H	D,S	Gentle slope	Concrete curb; 15 feet concrete casing at top. Never fails. Reported hard water in gray sand.
179	None	N	River bank	Estimated flow: 50 gallons a minute from 12 openings in sand and gravel. Never fails.
180	--	--	--	Drilled well. Oil test. See log.
181	B,H	D,S	Flat	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine red sand.
182	B,H	D,S	Gentle slope	Brick curb; brick casing, top to bottom. Never fails. Reported water in gravel below gravelly clay.
183	B,H	D,S	--	Wood curb; 12 feet wood casing at top. Never fails. Reported water in sandy gravel.
184	C,W	D	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in gravel below gravelly black sand.
185	B,H	D	do.	Wood curb; concrete casing, top to bottom. Never fails. Reported water in sand.
186	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in brown quicksand.

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

d/ No water sample collected for analyses.

e/ Water level reported.

Records of wells and springs in Milam County--Continued.

No.	Distance from Baileyville	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>	Water Level	
								Depth below measuring point (feet)	Date of measurement
200	8 miles south	J. C. Freeman	--	Old	95	6	0.5	86.4	June 5, 1936
d/201	7 miles south	-- Stidham	Reiter, Foster & Simms	--	3,830	--	--	--	--
202	6 miles south	Mrs. B. W. Stidham	--	1836	60	30	2.0	48.9	May 20, 1936
203	4½ miles south	Sam Rose	Sam Rose	1936	30	30	3.0	29.3	do.
204	6½ miles south	C. G. Crock	--	Old	50	36	4.0	43.2	do.
206	6 miles southwest	Jones Prairie School	--	Old	61	36	3.0	41.2	do.
207	6½ miles southwest	Louis Anderson	--	Old	37	30	1.0	23.7	do.
208	8 miles southwest	Mrs. M. Mondrick	--	Old	73	30	2.0	72.6	do.
210	¾ miles west	Tom Lehman	--	Old	30	36	3.0	31.2	June 16, 1936
d/211	¾ miles west	-- White	Milam Oil & Gas Co.	--	1,368	--	--	--	--
212	3 miles northwest	C.B. Battle	--	Old	13	48	3.0	8.4	do.
213	¾ miles north	Ellison Est.	--	--	Spring	--	--	Flows	do.
d/214	2 miles northwest	A.O. Stuckey	--	Old	38	48	--	0	do.
215	In Baileyville	Bob Ford	--	1933	29	30	3.0	22.0	June 16, 1936
d/216	1½ miles southeast	Woodal Bros.	B. & B. Oil Co.	--	3,700	--	--	--	--
217	do.	Mrs. J. P. Woodal	--	Old	45	30	1.0	39.0	June 16, 1936 e/
218	3 miles south	John H. Williams	--	Old	70	48	3.0	67.2	June 16, 1936
d/219	do.	H. C. White heirs	--	Old	110	6	1.0	104.0	June 17, 1936 e/
d/220	¾ miles south	H. M. Sneed Est.	United Workers Oil Co.	--	3,830	--	--	--	--
d/221	4 miles south	M. Reesler	--	Old	41	48	3.0	38.2	May 20, 1936
222	4½ miles south	Mrs. H. M. Sneed	--	Old	115	8	1.0	18.0	May 20, 1936 e/
223	6½ miles south	Al Whiteside	Al Whiteside	1933	100	36	0	98.2	May 20, 1936
d/224	6 miles south	County School	--	Old	31	36	3.0	29.5	do.

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

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No.	Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
200	B,H	S	Gentle slope	Bored well. Galvanized casing, top to bottom. Never fails. Reported hard water in fine sand.
201	--	--	--	Drilled well. Oil test. Altitude 411 feet. See log.
202	C,W	D,S	Gentle slope	Brick curb; brick casing, top to bottom. Strong supply. Reported water in fine sand.
203	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine, white sand under chalky clay.
204	B,H	D,S	do.	Wood curb; 15 feet wood casing at top, 20 feet concrete casing at bottom. Strong supply. Reported water in fine sand.
206	B,H	D,F	do.	Wood curb; 10 feet brick casing at top. Never fails. Reported water in white sand.
207	C,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in white, sandy clay.
208	B,H	D	Flat	Brick curb; 8 feet brick casing at top. Never fails. Reported water in sand below sandy clay and shale.
210	B,H	D,S	Gentle slope	Brick curb; brick casing, top to bottom. Nearly fails in drought. Reported hard water in sandy gravel below clay and
211	--	--	--	Drilled well. Oil test. See log. <u>silt.</u>
212	B,H	D,S	Gentle slope	Wood curb; wood casing, top to bottom. Nearly fails in drought. Turbid. Reported hard water in sandy gravel and
213	None	S	Head of draw	Flows 8-inch pipe $\frac{1}{4}$ full continuously. Water from <u>clay.</u> numerous openings in yellow sand below limey clay.
214	B,H	D,S	Hilltop	Brick casing, top to bottom. Fails in summer. Dry at time of measuring. Reported hard water in gravelly clay.
215	B,H	D	Gentle slope	Wood curb; brick casing, top to bottom. Nearly fails in summer. Reported hard water in sandy clay and gravel.
216	--	--	--	Drilled well. Oil test. Altitude 326 feet. See log.
217	C,W	S	Gentle slope	Rock curb; rock casing, top to bottom. Never fails. Reported hard water in sandy gravel.
218	B,H	D	do.	Wood curb; 12 feet wood casing at top. Never fails. Reported hard water in fine, gray sand below sandy shale.
219	--	N	do.	Bored well. 6-inch steel casing, top to bottom. Weak supply. Reported hard water in blue, sandy shale.
220	--	--	--	Drilled well. Oil test. See log.
221	B,H	D,S	Gentle slope	Wood curb; 10 feet wood casing at top. Never fails. Reported water in sand.
222	C,W	D,S	do.	Drilled well. 8-inch steel casing, top to bottom. Never fails. Reported water in sand.
223	B,H	D	do.	Wood curb; concrete casing, top to bottom. Never fails. Reported water in fine gray sand.
224	B,H	D	do.	Wood curb; no casing. Never fails. Reported water in sand under sandy clay.

e/ I, irrigation; Ind, industria; P, public; D, domestic; S, stock; N, not used.

d/ No water sample collected for analysis.

e/ Water level reported.



Records of wells and springs in Milam County--Continued

No.	Distance from Gause	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (ft.)	Height of measuring point above ground (ft.)	Water level	
								Depth below measuring point (feet)	Date of measurement
250	10 $\frac{1}{2}$ miles north	Boy Scouts	--	--	Spring	--	--	Flows	June 17, 1936
252	8 $\frac{1}{2}$ miles north	Lonzo Willis	--	1927	24	36	3.0	24.0	June 5, 1936
d/253	8 $\frac{1}{2}$ miles northwest	J. A. Foster	Red Bank Oil Co.	1932	5,402	10	--	--	--
254	7 $\frac{1}{2}$ miles north	Addie Lee Watson	--	Old	30	330	3.0	24.0	May 4, 1936
255	do.	County Road	--	--	Spring	--	--	Flows	do.
256	7 miles north	Gibson Gin Co.	--	1926	400	6	2.0	8.9	do.
257	do.	H. Johnson heirs	--	Old	38	30	2.0	35.3	June 18, 1936
258	do.	W. C. Henderson	--	Old	600	4	--	Flows	do.
259	5 $\frac{1}{2}$ miles north	D. F. Peel	--	Old	580	--	--	Flows	do.
260	do.	Fred Smith	--	1915	350	--	--	Flows	May 4, 1936
261	6 miles northwest	Mrs. W. C. Looney	--	1915	350	--	--	Flows	do.
262	5 miles northwest	M. R. Looney	--	1916	350	--	--	Flows	do.
263	3 $\frac{1}{2}$ miles northwest	Nilcy Smith	--	1915	350	3	--	Flows	Aug. 12, 1936
264	3 $\frac{1}{2}$ miles northwest	Cecil Lange	--	1935	26	30	3.0	24.1	Apr. 29, 1936
265	do.	Pin Oak School	--	1934	42	30	4.0	42.3	do.
266	4 $\frac{1}{4}$ miles northwest	Black and Henderson	--	Old	66	30	2.0	51.0	do.
267	3 miles west	A. F. Robinson	--	Old	88	48	3.0	64.7	do.
268	6 $\frac{1}{2}$ miles west	Dimming Inv. Co.	--	Old	73	48	3.0	72.8	do.
269	do.	A. C. Roschetzky	--	1875	97	30	2.0	91.0	Apr. 29, 1936 c/
270	4 $\frac{1}{2}$ miles west	Mrs. Lillie Beaver	--	--	Spring	--	--	Flows	June 4, 1936
271	5 miles west	do.	--	--	do.	--	--	Flows	do.
272	4 $\frac{3}{4}$ miles southwest	Mrs. B. C. Vanover	--	1925	26	30	1.0	24.2	do.
273	3 $\frac{1}{4}$ miles west	Modis Blakoley	--	1934	26	30	4.0	28.2	June 19, 1936
274	4 $\frac{1}{4}$ miles southwest	State Hwy. Dept.	--	1935	18	20	1.0	14.4	June 4, 1936
275	3 miles southwest	J. Eiland	--	1933	17	48	3.0	12.0	June 19, 1936

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; St, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

No.	Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
250	None	D	Bank of draw	Estimated flow: 3 gallons a minute from sand over lignite cutcrop.
252	B,H	D,S	Gentle slope	Wood curb; wood casing, top to bottom. Never fails. Report- ed hard water in fine, gray sand below rock.
253	None	N	do.	Drilled well. Oil test. Altitude 397 feet. See log.
254	B,H	D,S	do.	Concrete curb; 23 feet concrete casing at top. Never fails. Reported hard water in sand.
255	None	N	Head of draw	Estimated flow: 1 gallon a minute from sandy gravel.
256	C,W	Ind	Edge of valley	Drilled well. 400 feet of 6-inch steel casing. Strong sup- ply. Reported water in fine, white sand.
257	B,H	--	Gentle slope	Wood curb; cased from top to bottom. Never fails. Reported water in sandy gravel.
258	None	D,S	Flat	Drilled well. Flows 3 gallons a minute. Never fails.
259	None	D,S	do.	Drilled well. Never fails. 2-inch outlet from casing. Es- timated yield: 5 gallons a minute.
260	None	D,S	do.	Drilled well. Never fails. 2-inch outlet from casing. Reported water from fine, white sand.
261	Ncne	D,S	do.	Drilled well. Never fails. 2-inch outlet from casing. Reported water from sand.
262	None	D,S	do.	Drilled well. Flows 3 gallons a minute. Never fails. Reported water from fine sand.
263	None	D,S	do.	Drilled well. Flows 2 gallons a minute. Never fails. Reported water from sand.
264	B,H	S	Gentle slope	Concrete curb; brick and concrete casing, top to bottom. Nearly fails in summer. Reported hard water in sandy gravel.
265	B,H	D	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine gray sand.
266	--	D	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine sand below red, sandy shale.
267	C,W	D,S	do.	Wood curb; 15 feet galvanized iron casing at top. Never fails. Reported hard water in sand below sandy shale.
268	B,H	D	do.	Wood curb; 15 feet brick casing at top. Never fails. Re- ported water in fine sand.
269	C,W	D,S,I	do.	Concrete curb; 20 feet concrete casing at top. Never fails. Reported produces 400 gallons an hour from sandy, blue clay.
270	None	D,S	Creek slope	Estimated flow: 4 gallons a minute from white sand. Never fails.
271	None	S	Side of draw	Estimated flow: 3 gallons a minute from 2 openings in white sand veins in white clay below soft, red sandstone.
272	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine, white sand.
273	B,H	D,S	do.	27 feet of concrete casing at top. Weak supply. Reported water from soft sandstone.
274	B,H	D	do.	Rock curb; 5 feet galvanized casing at top. Never fails. Reported water in white sand.
275	B,H	D,S	do.	Wood curb; 3 feet wood casing at top. Nearly fails in sum- mer. Reported water in sandstone.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of well and springs in Milam County--Continued

No.	Distance from Guase	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)	Water level	
								Depth below measuring point (ft.)	Date of measurement
276	2½ miles southwest	Terv Moore	--	1934	16	36	1.0	13.4	May 6, 1936
d/276a	2¼ miles south	D. D. Fowler	A. H. Wray	1930	3,006	10	--	--	--
277	3½ miles south	B. B. Raines	--	Old	16	36	3.0	6.8	Aug. 11, 1936
278	½ mile southwest	Chas. Jones	--	1935	33	43	3.0	23.8	May 5, 1936
279	¾ miles northeast	Conway Moore	--	1913	17	36	3.0	17.0	May 18, 1936
280	1 mile southeast	Pat Thomas	--	1934	14	30	2.0	12.3	May 6, 1936
281	1¼ miles east	John Thompson	--	1906	18	36	2.0	18.9	May 18, 1936
282	2¼ miles southeast	Rudolph Bowling	--	Old	30	36	3.0	25.3	May 6, 1936
283	¾ miles southeast	F. B. Burks	--	Old	37	30	1.5	36.2	do.
284	2¾ miles east	Mrs. S. F. Garrison	--	Old	47	36	2.0	31.1	May 18, 1936
285	3½ miles northeast	Bud Smith	Hensley & Tribbler	1923	900	12	1.0	23.9	do.
286	4 miles northeast	Critchfield Est.	--	1921	33	36	3.0	26.5	do.
287	4¼ miles northeast	J. K. Freeman	--	1931	19	30	2.0	18.3	do.
288	4¾ miles southeast	Dilbeck Oil Co.	--	--	Spring	--	--	Flows	May 6, 1936
289	5½ miles southeast	John Frame	--	1935	44	36	3.0	43.8	do.
290	6 miles southeast	--	--	--	Spring	--	--	Flows	do.
291	6½ miles southeast	Mrs. Lizzie Tidwell	--	1910	45	36	3.0	53.0	do.

No.	Distance from Milano	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)	Water level	
								Depth below measuring point (ft.)	Date of measurement
300	6½ miles east	Bob Luce	--	Old	25	30	3.0	23.4	May 5, 1936
301	5½ miles east	W. H. Dracer	--	1896	53	30	3.0	28.1	do.
302	5 miles east	do.	--	--	Spring	--	--	Flows	do.
303	5 miles southeast	V. P. Woolley	--	Old	25	30	3.0	25.5	do.
304	4¾ miles southeast	Amos Lagrone	--	1877	53	36	2.0	41.2	Aug. 17, 1936

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.  
 b/T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric/  
 S, stream; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

W. I. Clark, Jr., Project Superintendent

No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
276	B,H	D,S	Gentle slope	Wood curb; 8 feet wood casing at top. Never fails. Reported water in red sandstone.
276a	None	N	--	Drilled well. Oil test. Altitude 347 feet. See log.
277	B,H	D,S	Sandy slope	Wood curb; rock casing, top to bottom. Never fails. Reported water in fine sand.
278	B,H	D,S	Gentle slope	Concrete curb; 5 feet concrete casing at top. Never fails. Reported water in fine, yellow sand.
279	B,H	D,S	do.	Wood curb; no casing. Sand box in bottom. Never fails. Reported water in fine sand under 11 feet of sand rock and
280	B,H	D,S	do.	Concrete casing, top to bottom. Never fails. Reported water in red and yellow sandstone. shale.
281	B,H	D	do.	Wood curb; brick casing, top to bottom. Never fails. Reported water in yellow gravel below clay.
282	B,H	D,S	do.	Wood curb; 4 feet wood casing at top. Never fails. Reported water with alum taste from sand under red, sandy clay.
283	B,H	D	do.	Wood curb; brick casing, top to bottom. Never fails. Reported water in fine, white sand.
284	B,H	D,S	Flat	Wood curb; brick casing, top to bottom. Never fails. Reported hard water in fine, dark sand below clay.
285	B,H	D,S	Gentle slope	Drilled well. Oil test. Partially plugged. Reported strong flow encountered at 800 feet below 18 inches of hard, blue
286	B,H	D,S	do.	Wood curb; brick casing, top to bottom. Never fails. Reported water in fine, white sand. sandstone.
287	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in fine, white sand.
288	None	S	Side of draw	Strong flow from yellow sand and soft, red sandstone below hard sand rock.
289	B,H	D,S	Gentle slope	Wood curb; wood casing, top to bottom. Never fails. Reported water in yellow sand below 6 feet of sand rock, clay,
290	None	--	Creek bed	700 feet of exposure at base of 40 foot bluff and lignite. along river. Strong seep.
291	B,H	D,S	Side of draw	Wood curb; 15 feet wood casing at top. Strong supply. Reported water in soft, tan sand rock.

No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
300	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in tan quicksand below red, sandy clay.
301	B,H	D,S	do.	Brick curb; 33 feet brick casing to bottom of dug well. Drilled well 33 to 53 feet. Drilled deeper because dug well
302	None	S	Small draw	Estimated flow: 7 gallons a minute failed. Strong supply. from 3 openings in fine, white sand. Never fails. Slightly
303	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in red sand. turbid.
304	B,H	D,S	Side of ridge	Wood curb; 10 feet brick casing at top. Never fails. Reported slightly sour water in gray and white sand.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Milam County---Continued

No.	Distance from Milano	Owner	Driller	Date completed	Depth of well (ft.)	Diam-eter of well (in.)	Height of measuring point above ground(ft.)	Water level	
								Depth below measuring point	Date of measurement
305	4 $\frac{1}{4}$ miles southeast	Ed. Bullard	--	Old	41	30	1.0	39.9	May 5, 1936
307	4 miles east	Ray Woods	--	--	Spring	--	--	Flows	Aug. 17, 1936
308	3 $\frac{3}{4}$ miles east	Bell Morgan	--	1925	35	30	2.0	31.8	June 19, 1936
309	2 $\frac{1}{4}$ miles east	Jerry Brokins	--	Old	12	--	3.0	10.3	do.
310	1 $\frac{1}{2}$ miles east	State Highway Dept.	--	1890	49	30	4.0	46.5	June 5, 1936
311	2 miles northeast	M. E. Ashley	--	1916	56	60	3.0	56.0	June 4, 1936
d/319	$\frac{1}{4}$ miles northwest	Santa Fe R. R. Co.	--	--	1,150	6	--	--	--
321	1 mile northeast	Claude White	--	1915	21	30	3.0	15.6	Apr. 20, 1936
322	2 miles north	Mrs. J. B. Holland	--	Old	16	30	2.0	2.6	do.
323	2 $\frac{3}{4}$ miles north	J. T. Timmons	--	--	21	30	3.0	20.1	do.
d/324	4 miles northeast	M. Ashley	--	--	4,111	--	--	--	--
325	3 $\frac{3}{4}$ miles north	A. J. Hildebrant	--	1928	69	30	1.0	67.0	Apr. 23, 1936
326	4 $\frac{3}{4}$ miles north	Liberty School	--	1936	26	30	3.0	23.1	Apr. 24, 1936
327	5 $\frac{1}{2}$ miles north	Joe Kirk	--	Old	69	48	3.0	65.1	Apr. 29, 1936
328	5 miles north	Miss Julie Kirk	--	Old	45	30	3.0	38.2	Apr. 24, 1936
329	do.	W. A. Reese	--	Old	66	36	3.0	63.4	do.
330	3 $\frac{1}{4}$ miles north	L. M. Westbrook	--	Old	28	30	0.5	23.8	Apr. 23, 1936
332	4 $\frac{3}{4}$ miles northwest	T. A. Casey	--	Old	48	30	3.0	45.8	do.
333	5 miles northwest	Clyde Hensley	--	1915	104	30	2.0	94.5	do.
335	4 $\frac{1}{2}$ miles northwest	F. Heitman	--Moody	1926	127	10	1.0	98.0	Apr. 23, 1936 e/
338	6 miles northwest	A. C. Verner	--	1931	31	24	2.0	31.2	Apr. 23, 1936
339	7 miles northwest	Mrs. J. W. Gore	--	1896	63	48	3.0	62.7	Apr. 11, 1936
340	6 $\frac{1}{2}$ miles west	I. W. Moseley Est.	--	1890	23	30	2.0	23.5	Apr. 30, 1936
341	do.	Mrs. Le Cone	--	--	42	30	4.0	43.5	do.
343	4 $\frac{3}{4}$ miles west	Estelle Beings Nelson	--	1926	28	30	2.0	27.6	do.
344	5 miles west	J. D. Nelson	--	1929	45	36	3.0	45.3	do.
345	4 $\frac{1}{4}$ miles west	M. J. Cavil	--	Old	51	30	3.0	50.9	do.

W. L. Clark, Jr., Project Superintendent

No.	Pump and Power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
305	B,H	D	Gentle slope	Concrete curb; concrete casing, top to bottom. Nearly fails in drought. Reported water in sand below red, sandy clay.
307	None	S	Swamp	Estimated flow; 10 gallons a minute from white sand below gumbo. Never fails.
308	B,H	D,S	Sand flat	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine sand.
309	B,H	D,S	Valley floor	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in fine sand below sandy clay.
310	B,H	C,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sand.
311	B,H	D,S	Do.	Wood curb; 8 feet wood casing at top. 31½ feet stone casing at bottom. Never fails. Reported hard water in yellow sand.
319	A,S	Ind	do.	Drilled well. Formerly supplied train engines. Reported stratic head near surface. Water slightly mineral.
321	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in sand below red clay and above rock.
322	B,H	D,S	Head of Draw	Wood curb; 10 feet wood casing at top. Never fails. Reported water in sandy veins in soapstone.
323	B,H	D	Gentle slope	Wood curb; brick casing, top to bottom. Nearly fails in drought. Reported water in fine sand below red clay.
324	--	--	--	Drilled well. Oil test. Altitude 490 feet. See log.
325	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in coarse sand below sandy clay.
326	B,H	D,P	do.	Wood curb; concrete casing, top to bottom. Never fails. Reported water in sand below red, sandy schist.
327	B,H	D,S	do.	Wood curb; 20 feet wood casing at top. Never fails. Reported water in sand below 50 feet of sandy clay.
328	B,H	D	do.	Brick curb; brick casing, top to bottom. Never fails. Reported hard, mineral water in fine, white sand below red
329	B,H	D,S	do.	Wood curb; 12 feet stone casing at top. <u>sandy shale.</u> Strong supply. Reported water in sand.
330	B,H	D	do.	Stone curb; stone casing, top of bottom. Never fails. Reported water in sand below red, sandy clay.
332	C,W	D,S	do.	Concrete curb; 15 feet concrete casing at top. Strong supply. Reported water in fine, white sand below sandy clay.
333	B,H	D	do.	Brick curb; brick casing, top of bottom. Never fails. Reported water in quicksand.
335	C,W	D,S	do.	Drilled well. 10 inch steel casing, top to bottom. Strong supply. Reported water in fine, gray quicksand.
338	B,H	D,S	do.	Sheet iron curb; no casing. Never fails. Only good water in radius of 1 mile. Reported good supply of salty, bitter water at 40-50 feet.
339	C,W	D,S	Ridge top	Wood curb; 15 feet wood casing at top. Never fails. Reported water in blue sand below red, sandy shale.
340	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine, tan quicksand above and below shale.
341	B,H	D,S	Do.	Concrete curb; concrete casing, top to bottom. Nearly fails in summer. Reported water in fine, tan quicksand.
343	B,H	D,S	Flat upland	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sand.
344	B,H	D,S	Gentle slope	Wood curb; 10 feet wood casing at top. 20 feet concrete casing at bottom. Never fails. Reported water in fine, gray quicksand.
345	B,H	D,S	do.	Concrete curb; concrete casing, top of bottom. Never fails. Reported water in sand below sandy shale.

## W. I. Clark, Jr., Project Superintendent

No.	Distance from Milano	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/	Water level	
								Depth below measuring point (feet)	Date of measurement
346	4 $\frac{1}{4}$ miles west	Sallie Miller	-- Wade	1930	83	30	3.0	34.3	Apr. 30, 1936
347	2 $\frac{1}{2}$ miles northwest	Willie Nelson Sr.	Willie Nelson, Jr.	1924	14	30	1.0	11.3	May 7, 1936
348	do.	Abe Smoot	--	1931	12	30	3.0	12.8	do.
350	2 $\frac{3}{4}$ miles west	Jim Netherland	--	1920	66	30	3.0	42.1	do.
351	2 $\frac{3}{4}$ miles southwest	J.F.Coffield	--	Old	41	30	3.0	38.2	May 14, 1936
352	3 $\frac{1}{4}$ miles southwest	Jim Netherland	--	Old	35	48	3.0	34.3	do.
353	4 $\frac{1}{4}$ miles southwest	Jim Jones	--	Old	59	48	3.0	60.0	do.
354	3 miles southwest	Hairston Heirs	--	1900	77	48	2.0	72.7	May 11, 1936
355	do.	Hairston Estate	--	--	Spring	--	--	Flows	do.
356	1 mile south	G. W. Butts	--	1906	118	30	1.0	104.5	do.
d/357	1 $\frac{1}{2}$ miles south	J.B.Newton	Joel B. Terrell et.al.	1925	1,532	--	--	--	--
d/358	1 $\frac{1}{2}$ miles south	P. W. Buer	Elliott & Tuttle	1925	1,205	--	--	--	--
359	2 $\frac{1}{4}$ miles south	Buer Heirs	--	--	Spring	--	--	Flows	May 11, 1936
d/360	3 miles south	John Kohut	John Kohut	1907	35	30	1.0	25.4	do.
361	3 $\frac{3}{4}$ miles south	Dave Collins	--	Old	6	30	3.0	5.0	do.
362	2 $\frac{1}{2}$ miles southeast	B. Stuart	--	1905	12	30	1.0	7.2	May 14, 1936
363	3 miles southeast	T.S.Henderson	--	--	Spring	--	--	Flows	do.
364	4 $\frac{1}{2}$ miles southeast	Rebecca Graham	--	1934	60	30	2.0	60.8	May 15, 1936
365	5 $\frac{1}{2}$ miles southeast	Hugh Vaughn	--	1955	19	30	1.0	17.5	do.
366	do.	Mrs.R.A. Carnage	--	1906	24	30	2.0	23.4	do.
367	4 $\frac{1}{2}$ miles south	R. W. Wilson	--	Old	47	60	3.0	43.4	do.
368	4 $\frac{1}{4}$ miles south	Mrs. J. C. Williams	--	1931	66	48	3.0	61.8	do.

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, air lift; G, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

W. I. Clark, Jr., Project Superintendent.

No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
346	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in fine sand below sand, shale and lignite.
347	B,H	D	Ridge-top	Concrete curb; concrete casing, top to bottom. Reported water in coarse, rusty colored sand above 6 feet of chocolate colored clay.
348	B,H	D,S	Bottom of draw	Wood curb; concrete casing, top of bottom. Never fails. Reported water in fine, white sand.
350	B,H	D,S	Ridge-top	Wood curb; concrete casing, top to bottom. Never fails. Reported hard water in fine, white sand.
351	B,H	D,S	Gentle slope	Concrete curb; concrete casing, top of bottom. Never fails. Reported hard water in fine, white sand.
352	None	N	do.	Wood curb; 12 feet wood casing at top. Never fails. Needs cleaning out. Reported water in fine brown sand below sandy clay.
353	B,H	D,S	Flat	Wood curb, 15 feet wood casing at top. 3 feet concrete casing at bottom. Reported water in fine sand below red, sandy clay.
354	B,H	D,S	Gentle slope	Brick curb; 20 feet brick casing at top and 8 feet at bottom. Never fails. Reported hard water in fine, tan sand.
355	None	S	Head of draw	Measured flow; 30 gallons a minute from 3 opening in sand and clay. Never fails.
356	C,G,I	D,S,I	Gentle slope	Brick curb; 15 feet brick casing at top. Strong supply. Reported water from sand and sandrock.
357	None	N	--	Drilled well. Oil test. See log.
358	None	N	Ridge-top	Drilled well. Oil test. Reported strong artesian flow encountered when drilled. See log.
359	None	--	Base of bluff	Estimated flow; 10 gallons a minute from fine, gray sand below soft, red sandstone. Never fails.
360	C,G, 22	S	Ridge-top	Concrete curb; concrete casing, top of bottom. Nearly fails in drought. Reported hard water in 2½ feet of sandy shale above iron rock.
361	B,H	S	Hill-side	Wood curb; wood casing, top to bottom. Never fails. Turbid. Reported water in fine, tan sand below yellow sandy clay.
362	B,H	S	Valley floor	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in sand.
363	None	S	Foot of slope	Estimated flow; 15 gallons a minute from 3 opening in loose, white sand. Never fails.
364	C,W	D	Gentle slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine, white sand.
365	B,H	D,S	Do.	Concrete curb; concrete casing, top of bottom. Never fails. Reported hard water in fine, white micaceous sand.
366	B,H	D	do.	Tile curb; tile casing, top of bottom. Never fails. Reported water in fine, white sand.
367	B,H	D,S	do.	Wood curb, 8 feet wood and 10 feet boiler plate casing at top. 5 feet wood casing at bottom. Never fails. Reported water in white sand.
368	B,H	D,S	do.	Wood curb, 20 feet plaster casing at top. 6 feet concrete casing at bottom. Never fails. Reported water in coarse, gray sand.

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

d/ No water sample collected for analysis.

e/ Water level reported.



## Records of wells and springs in Milam County--Continued

No.	Distance from Rockdale	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>	Water level	
								Depth below measuring point (feet)	Date of measurement
400	4 miles east	Guy Cook	--	1916	130	6	1.0	104.0	May 14, 1936
401	3 $\frac{3}{4}$ miles east	Ira Touchstone	--	1932	8	48	3.0	7.8	do.
402	3 $\frac{1}{2}$ miles southeast	Calhoun Chad-dock	--	Old	62	30	3.0	56.9	June 1, 1936
403	5 miles southeast	Allie Marsh	--	1933	17	30	2.0	13.9	do.
404	7 miles southeast	Fannie Ferguson	--	--	Spring	--	--	Flows	do.
405	5 $\frac{1}{2}$ miles southeast	J. F. Rosa	--	1920	28	30	4.0	24.2	do.
406	4 miles south	E. H. Noack	--	1933	222	8	2.0	57.0	June 1, 1936 <sup>a/</sup>
407	2 $\frac{3}{4}$ miles south	Mrs. Lee Stevens	--	1931	100	8	1.0	17.0	June 1, 1936
408	1 $\frac{1}{2}$ miles east	E. H. Foster	--	1930	76	36	2.0	71.4	do.
409	$\frac{3}{4}$ mile southeast	Dan Bound	--	1922	31	30	4.0	29.4	do.
410	Southwest edge of town	City of Rockdale	--	1920	75	60	1.0	29.6	Apr. 13, 1936
411	do.	I. & G. N. R. R. Co.	--	--	71	132	0	47.7	Apr. 11, 1936
412	3 miles northeast	Ben Torrez	--	1925	39	30	2.0	33.7	Apr. 30, 1936
413	3 $\frac{1}{2}$ miles northeast	A. I. Caywood	--	Old	46	30	2.0	31.9	do.
415	1 $\frac{1}{4}$ miles northwest	Jess Kovil	--	1928	81	30	1.0	79.0	Apr. 16, 1936
416	1 $\frac{3}{4}$ miles north	W. F. Horton	--	1926	400	6-5/8	2.0	75.4	Apr. 6, 1936
417	2 $\frac{1}{2}$ miles northwest	Louis Kirchenwitz	--	1916	60	30	3.0	42.6	Apr. 16, 1936
418	2 $\frac{1}{2}$ miles north	Anchor Oil Co.	--	1928	180	6-5/8	1.0	42.0	Apr. 11, 1936 <sup>a/</sup>
419	3 miles north	Rush Phillips	--	Old	49	48	4.0	46.9	Apr. 11, 1936
420	4 miles north	Wm. Luefge	--	1927	160	6-5/8	1.0	44.3	Apr. 8, 1936
d/421	5 miles north	Fritz Bauer	E. H. Noack	1924	744	6-5/8	--	--	--
422	5 $\frac{1}{2}$ miles north	Mrs. Joe Bauer	--	1910	42	40	3.0	37.5	Apr. 6, 1936
d/423	5 miles north	do.	E. H. Noack	1924	751	6-5/8	--	--	--
426	3 $\frac{3}{4}$ miles northwest	F. C. Kirchenwitz	--	1890	53	48	3.0	46.9	Apr. 16, 1936
d/427	4 miles west	E. A. Doss	--	--	1,700	--	--	--	--

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, airlift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

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No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
400	B,H	D	Slope	Bored well; 6 inch steel casing, top to bottom. Perforated at bottom. Never fails. Reported water in fine sand.
401	B,H	D,S	do.	Wood curb; wood casing, top of bottom. Never fails. Reported water in fine, white sand below yellow, sandy clay.
402	B,H	D,S	Do.	Wood curb; 14 feet wood casing at top. Never fails. Reported hard water in blue sand.
403	B,H	D	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in yellow sand below sandstone.
404	None	S	Base of ridge	Strong flow from 10 openings in fine, gray sand below yellow sandrock. Never fails.
405	C,W	D,S	Side of ridge	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sand below gray clay.
406	C,W	D,S	Slope	Drilled well. Steel casing, top of bottom. Bottom 40 feet perforated. Strong supply. Reported hard water in fine
407	C,W	D,S	do.	Drilled well. Steel casing, top to bottom. <span style="border: 1px solid black; padding: 2px;">gray sand.</span> Never fails. Reported water in fine sand.
408	C,W	D,S	do.	Concrete curb; 8 feet concrete casing at top and 36 feet at bottom. Never fails. Reported hard water in gray sand.
409	B,H	D	Ridge-top	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in fine sand.
410	T,E,5	P	Slope	Concrete curb; 10 feet wood casing at top. Pumping level, 25.5 feet when operated continuously. Produces 100 gallons
411	C,C, 15	Ind	do.	O, oil engine. 17 feet wood casing at top, cy- <span style="border: 1px solid black; padding: 2px;">a minute.</span> press block casing at bottom. Supplies 175 gallons a
412	--	D,S	Do.	Wood curb, wood casing, top to bottom. <span style="border: 1px solid black; padding: 2px;">minute.</span> Never fails. Reported water in fine, gray quicksand and un-
413	B,H	D,S	do.	Concrete curb; concrete casing, top to <span style="border: 1px solid black; padding: 2px;">der rod sandy shale.</span> bottom. Never fails. Reported water in fine quicksand under
415	C,G,2	D	do.	Concrete curb; concrete casing, top to bottom <span style="border: 1px solid black; padding: 2px;">sandy shale.</span> Never fails. Reported water in fine, gray sand under sandy
416	None	N	Gentle slope	Drilled well. Formerly supplied drilling rigs. Strong <span style="border: 1px solid black; padding: 2px;">clay.</span> supply. See log.
417	C,W	D,S	do.	Wood curb; 13 feet wood casing at bottom. Never fails. Reported water in fine, blue sand. Can be pumped dry in 12
418	C,G,I	D,S	do.	Drilled well. 160 feet 6-5/8 inch blank and 20 feet <span style="border: 1px solid black; padding: 2px;">hours.</span> 6-5/8 inch perforated casing. Never fails. Reported water
419	B,H	S	do.	Wood curb; 16 feet casing at bottom. Strong <span style="border: 1px solid black; padding: 2px;">in blue sand.</span> supply. Reported hard water in gray quicksand below 12 feet of red, sandy shale.
420	C,-,-	Ind	do.	Drilled well. Formerly supplied drilling rigs. Strong supply. Reported water in blue sand below sandy shale.
421	--	--	Flat	Drilled well. Oil test. See log.
422	B,H	D,S	Gentle slope	Wood curb; 16 feet wood casing at top. Nearly fails in drought. Reported water in sand below 35 feet of clay and shale.
423	--	--	do.	Drilled well. Oil test. See log.
426	B,H	--	do.	Wood curb; 18 feet brick casing at top. Never fails. Reported water in fine, blue quicksand below shale and above
427	--	--	--	Drilled well. See log. <span style="border: 1px solid black; padding: 2px;">rock.</span>

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells and springs in Milam County--Continued

No.	Distance from Rockdale	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)	Water level	
								Depth below measuring point (ft.)	Date of measurement
428	4 1/4 miles west	Paul Henager	--	Old	40	36	1.0	33.3	June 6, 1936
d/429	3 miles west	Fritz Dornhoeffer	Groneman Bros.	--	3,540	--	--	--	--
430	3 1/2 miles west	Emil Dornhoeffer	--	Old	55	36	4.0	47.5	June 2, 1936
431	3 miles west	Pete Coffield	--	1933	108	6	1.0	40.0	June 2, 1936 e/
432	1 3/4 miles west	L. E. Talbot	--	--	86	30	3.0	82.8	June 2, 1936
433	2 1/2 miles south	Tom Neeley Estate	--	Old	8	36	2.0	5.5	May 12, 1936
435	3 1/4 miles south	W. E. Gaither	--	Old	37	30	3.0	28.1	do.
436	4 miles south	H. H. Pruitt	--	1934	24	30	1.0	18.1	do.
437	do.	Tom Carver	--	1922	10	30	--	7.8	do.
438	5 miles southwest	E. T. Roberts	-- Leadwell	1925	85	6	--	30.0	May 12, 1936 e/

No.	Distance from Thorndale	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)	Water level	
								Depth below measuring point (ft.)	Date of measurement
d/450	all miles east	Holliman Estate	Glass Oil Co.	1926	2,137	10	--	--	--
451	9 miles southeast	McAllister Coal Co.	--	1929	190	6	0	16.0	May 12, 1936 e/
d/451a	8 1/2 miles east	M. M. Kime	Magnolia Petroleum Co.	1925	3,877	6-5/8	--	--	--
452	do.	A. A. Rolan	--	1934	110	6	2.0	40.0	June 3, 1936 e/
453	8 miles southeast	H. Pruitt	--	1925	13	36	3.0	12.3	June 3, 1936
457	7 1/2 miles southeast	Mrs. J. E. Wilson	--	Old	63	36	3.0	63.0	June 18, 1936
458	7 miles south	W. H. Gambrell	--	1914	149	6	1.0	128.0	June 18, 1936 e/
459	5 1/2 miles south	W. B. House	--	Old	63	36	2.0	55.6	June 18, 1936
460	6 miles southeast	F. C. Stiles	--	1916	99	36	--	82.0	do.
461	6 1/2 miles southeast	Claude Patterson	--	Old	14	48	--	14.1	June 3, 1936
462	5 miles southeast	O. F. Towery	--	Old	71	36	3.0	61.7	do.
463	4 1/2 miles east	F. J. Clement	--	1865	45	48	3.0	38.2	do.

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.

b/ T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
428	B,H	D,S	Gentle slope	Brick curb; 11 foot brick casing at top. Never fails. Reported water in greenish yellow sand below soft, sandy shale.
429	--	--	--	Drilled well. Oil test. See log.
430	C,W	D	Gentle slope	Brick curb; 18 $\frac{1}{2}$ foot brick casing at top. Never fails. Reported hard water in sand. Can be pumped dry in 2 hours but
431	C,W	D,S	do.	Drilled well. 6 inch steel casing, top refills in 3 hours. to bottom. Never fails. Reported water in gray sand.
432	C,W	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in sandstone below soapstone.
433	B,H	D,S	do.	Wood curb; wood casing, top to bottom. Nearly fails in summer. Reported turbid water in sand.
435	B,H	D,S	do.	Concrete curb; cement casing, top to bottom. Nearly fails in drought. Reported water in fine, gray sand.
436	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in quicksand under clay and sandy shale.
437	B,H	S	do.	Concrete casing, top to bottom. Nearly fails in drought. Reported turbid water from fine, gray quicksand.
438	C,W	D,S	do.	Drilled well. 70 foot 6 inch blank casing and 15 foot perforated 6 inch on bottom. Strong supply. Reported water in fine, gray sand.

No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
450a	None	N	--	Drilled well. Oil test. See log.
451	C,S	Ind	Gentle slope	Drilled well. 6 inch steel casing, top to bottom with bottom 20 feet perforated. Strong supply. Furnishes 75 gallons a
451a	None	N	--	Drilled well. Oil test. See log. <span style="float: right;">minute.</span>
452	B,H	D,S	Ridge-side	Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported water in sand.
453	B,H	D	Slope	Wood curb; no casing. Nearly fails in drought. Reported water in sand below sandstone.
457	B,H	D,S	do.	Wood curb; 11 foot wood casing at top. 30 foot cement casing at bottom. Never fails. Reported water in fine gray sand.
458	C,W	D,S	do.	Bored well. 6 inch steel casing, top to bottom with bottom 20 feet perforated. Strong supply. Reported water in fine
459	B,H	D,S	do.	Wood curb, 7 foot wood casing at top. Never fails. Reported water in fine, gray sand.
460	C,W	D,S	do.	Brick curb; 22 foot brick casing at top. Never fails. Reported water in fine, gray sand.
461	B,H	D,S	do.	Wood curb; wood casing, top to bottom. Never fails. Reported hard water in red sand below sandy clay.
462	B,H	D,S	do.	Brick curb; brick and stone casing, top to bottom. Reported water in sand. Never fails.
463	C,W	--	do.	Brick curb; 15 foot brick casing at top. Strong supply. Reported hard water in gray sand.

Records of wells and springs in Milam County--Continued

No.	Distance from Thorndale	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well	Height of measuring point above ground (ft.) <sup>a/</sup>	Depth below measuring point (ft.)	Date of measurement
464	5½ miles east	Ed. Perry	--	Old	57	48	--	31.7	June 3, 1936
465	6 miles east	John Timmerman	--	1928	33	36	2.0	32.1	June 2, 1936
466	6½ miles northeast	Martindale Co.	--	1910	18	--	3.0	15.8	Apr. 15, 1936
467	5½ miles northeast	Andrew Holder	--	1916	32	30	2.0	31.2	Apr. 1, 1936
468	5 miles northeast	J. A. Malcrease	--	1934	25	30	3.0	23.6	Apr. 15, 1936
469	3¾ miles northeast	J. H. Clement	--	1930	17	36	3.0	14.7	do.
470	4 miles northeast	H.W.Rodenbeck	--	1935	33	30	3.0	32.6	do.
471	4¼ miles north	W. T. Johnson	Walter Michalk	1933	2,231	6-5/8	0.5	6.5	Apr. 1, 1936
472	do.	do.	--	1916	20	30	1.0	19.5	do.
473	5 miles north	C. W. Barron	--	Old	30	30	1.0	28.4	do.
474	do.	Sam Clement	--	--	Spring	--	--	Flows	Apr. 15, 1936
475	4½ miles north	H. K. Locklin	--	1905	37	30	0	35.8	do.
476	do.	Herman Fussel	--	Old	35	30	0.5	30.0	do.
477	3¼ miles north	Ernst Richter	--	Old	45	30	1.0	23.8	do.
478	2¾ miles north	H.W.Rodenbeck	--	1922	19	30	2.0	15.8	do.
479	2½ miles northeast	John Melde	--	1919	26	36	3.0	20.9	June 18, 1936
480	1½ miles northeast	Crazy Crystal Co.	E. L. Chapman	1929	2,231	8	--	Flows	Aug. 8, 1936
481	¾ mile north	A. L. Hines	--	1920	14	48	2.0	4.4	June 18, 1936

<sup>a/</sup> Measuring point was usually top of casing, top of pump base, or top of well curb.

<sup>b/</sup> T, turbine; Cf, centrifugal; A, air lift; C, cylinder; B, bucket; E, electric; S, steam; G, gasoline engine; W, windmill; H, hand; number indicates horsepower.

W. I. Clark, Jr., Project Superintendent

No.	Pump and power b/	Use of water c/	Topographic situation	Remarks
464	B,H	D,S	Side of ridge	Brick curb; 8 feet brick casing at top. Never fails. Reported water in gray sand below sandy shale.
465	B,H	D	Slope	Wood curb; 12 feet wood casing at top. Never fails. Reported hard water in fine, white sand below blue and yellow clay.
466	B,H	D,S	do.	Wood curb; no casing, Nearly fails in drought. Reported hard water from gravel.
467	C,I	D,S,I	Ridge top	Concrete curb; concrete casing, top to bottom. Never fails. Reported water in white sand below sandstone.
468	B,H	D,S	Slope	Concrete curb; concrete casing, top to bottom. Never fails. Reported slightly salty tasting water in fine, yellow sand.
469	B,H	S	Valley floor	Wood curb; wood and brick casing, top to bottom. Never fails. Reported mineral water from sandy clay.
470	B,H	D,S	Slope	Brick curb; brick casing, top to bottom. Strong supply. Reported hard water from fine, yellow quicksand.
471	None	N	do.	Drilled well. Oil test. Partially plugged. Reported strong flow of mineral water when drilled. See log.
472	B,H	D,S	do.	Concrete curb; concrete casing, top to bottom. Never fails. Reported hard water in yellow gravel above sandstone.
473	C,W	D,S	do.	Brick curb; loose brick casing, top to bottom. Never fails. Reported hard water in sandy gravel above sandstone.
474	None	N	Base of bluff	Flow from gravel at base of 30 foot bluff 300 feet from river, bank. Never fails.
475	B,H	D,S	Slope	Brick curb; brick casing, top to bottom. Never fails. Reported water from gravel above sandstone.
476	C,V	D,S	do.	Brick curb; brick casing, top to bottom. Never fails. Reported water in yellow gravel.
477	C,W	D,S	Knoll-top	Wood curb; brick casing, top to bottom. Never fails. Reported water in sandy gravel.
478	C,W	D,S	Slope	Brick curb; brick casing, top to bottom. Nearly fails in summer. Reported water in gravel below sandy clay.
479	B,H	D,S	do.	Brick curb; brick casing, top to bottom. Strong well. Reported water in sandy gravel below sandy shale.
480	None	M	Valley floor	M, medicinal. Drilled well. One of 6 similar wells. Flows 25,000 barrels a day. 90 pounds pressure. Temperature 120°
481	C,W	D,S	Creek Valley	Brick curb; brick casing, top to bottom. Never fails. Reported water in sandy gravel below gravelly clay. F. See log.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Table of Drillers' Logs, Milam County, Texas

	Thickness (feet)	Depth (feet)
<u>Well 1</u>		
Robt. R. Penn, -- Hardy lease, 9 miles northeast of Davilla.		
Surface	36	36
Shale	182	218
Hard shale	200	418
Sticky shale	100	518
Shale	61	579
Gumbo	20	599
Hard shale	26	625
Soft chalk	148	773
Chalk	122	895
Hard chalk	97	992
Chalk	72	1064
Core determinations by Bureau of Geology		
Taylor 525-535		
Top of Austin 625-635		
Top of hard chalk 645-655		
Austin 1092-1099		
Buda 1348		
Del Rio 1396-1407		
Georgetown 1455-1457		
Edwards 1601-1737		
Walnut 1737-2808		
TOTAL DEPTH		2808

	Thickness (feet)	Depth (feet)
<u>Well 28</u>		
Chicago Oil and Gas Co., L. Sybert lease, 6½ miles east of Davilla.		
Surface	3	3
Clay	6	9
Dark shale	31	40
Hard sand	50	90
Water	1	91
Gray shale	185	276
Pecan gap (lime)	64	340
Sandy shale	10	350
Hard blue sand	47	397
Blue sand and shale with shells	213	610
Blue shale	60	670
Gray shale	20	690
Austin chalk	15	705
TOTAL DEPTH		705

	Thickness (feet)	Depth (feet)
<u>Well 107</u>		
Alexander and Lyles, R. L. Batte lease, 6 miles southwest of Cameron.		
Soil	20	20
Sandy shale	40	60
Sand	49	109
Rock	2	111
Shale and boulders	349	460
Lime	2	462
Minerve sand	4	466

	Thickness (feet)	Depth (feet)
<u>Well 107--Continued</u>		
Shale and boulders	259	725
Sticky shale	507	1232
Shale and boulders	126	1358
Shale and pyrite	2	1360
Hard shale	42	1402
Sand	418	1820
Hard shale	36	1856
Gumbo	10	1866
Hard shale	224	2090
Chalk, cored	3	2093
Chalk	352	2445
Eagle Ford and chalk	5	2450
Chalk	172	2622
Eagle Ford	10	2632
Core	8	2640
Eagle Ford	47	2687
Buda	14	2701
Base of Buda	26	2727
Del Rio	63	2790
Georgetown	42	2832
Del Rio	29	2861
Georgetown	174	3035
Edwards	102	3137
TOTAL DEPTH		3137

	Thickness (feet)	Depth (feet)
<u>Well 116--partial log</u>		
Baskin Brothers, Zellnev lease, 6 miles southwest of Cameron.		
Yellow clay	21	21
No record	10	31
Dark shale	459	490
Light shale	610	1100
White lime rock (gas show)	60	1160
Dark shale	388	1548
White shale or lime (called Austin chalk by some)	623	2171
Very dark shale	59	2230
TOTAL DEPTH		2230

	Thickness (feet)	Depth (feet)
<u>Well 138</u>		
W. H. Birdwell, J. F. Bartek lease, 7½ miles northwest of Cameron.		
Sand and gravel	18	18
Shale	353	371
Lime-Pecan gap	6	377
Shale	523	900
Cuttings from 900 down examined and reported by Humble laboratory.		
Austin chalk-soft	38	938
Austin chalk-hard	475	1413
Cuttings showed some Eagle Ford from 1392. Also chalk.		
Eagle Ford	127	1540
Buda lime	15	1555
(Continued on next page)		

Table of Drillers' Logs, Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 138--Continued</u>		
Core showed 2 inches of sand with oil 1553-1555.		
Shale and calcite	13	1568
Dark gray calcareous clay	30	1598
Small oil show and shell rock	1588	
Pyrite and chalk	2	1600
Gray chalky marl	22	1622
Georgetown	252	1874
Dobe (?)	10	1884
Edwards lime	40	1924
TOTAL DEPTH		1924
40 feet into Edwards lime with flowing water. Large mineral content in water with small amount of oil.		

	Thickness (feet)	Depth (feet)
<u>Well 177</u>		
Coffield and Hale, L. N. Posey farm, 6½ miles east of Cameron.		
Soil, sand, and clay	120	120
Gumbo	6	126
Water sand	34	160
Sandy shale	30	190
Hard sand rock	23	213
Sandy shale	45	258
Blue shale	33	291
Hard sand rock	19	310
Shale and boulders	16	326
Hard sand rock	4	330
Shale and boulders	20	350
Hard sand rock	10	360
Sandy shale	20	380
Hard rock	4	384
Sandy shale	61	445
Hard sand rock	28	473
Sandy shale	7	480
Gumbo	100	580
Hard sand rock	5	585
Sandy shale	10	595
Gumbo	218	813
Gravel-water	24	837
Gumbo	8	845
Black shale	228	1073
Shale	117	1190
Sand rock - gas	2	1192
Green sand - gas	3	1195
Green shale	2	1197
Sandy blue shale	13	1210
Shale and fossils	8	1218
Sand rock	2	1220
Shale and fossils	6	1226
Black shale	32	1258
Sand rock	2	1260
Hard shale	25	1285
Soft shale	22	1307
Boulders	3	1310

	Thickness (feet)	Depth (feet)
<u>Well 177--Continued</u>		
Hard shale	239	1549
Gray shale	14	1563
Sticky gray shale	77	1640
Broken rock	3	1643
Shale	628	2271
Sand rock	2	2273
Shales and boulders	12	2285
Hard lime rock	2	2287
Hard shale and chalk	24	2311
Hard lime rock	3	2314
Hard shale	49	2363
Gumbo, rock and boulders	7	2370
Chalk	25	2395
Sandy shale	3	2398
Hard chalk	80	2478
Lime and chalk	17	2495
Lime, shale, and boulders	215	2710
TOTAL DEPTH		3890

	Thickness (feet)	Depth (feet)
<u>Well 180--Partial log</u>		
Underwriters Oil Co., -- Tyson farm, 7½ miles east of Cameron.		
Yellow clay	20	20
Water sand	83	103
Blue packed sand	284	387
Hard brown rock	15	402
Blue shale	708	1110
Light shale	308	1490
Shale	10	1500
Sand rock	5	1505
Shale	625	2130
Austin chalk	24	2154
TOTAL DEPTH		2154

	Thickness (feet)	Depth (feet)
<u>Well 201</u>		
Reiter - Foster, and Simms, -- Stidham farm, 7 miles south of Baileyville.		
Clay	18	18
Shale and gravel	57	75
Shale and boulders	140	215
Rock	2	217
Shale and boulders	48	265
Rock	3	268
Shale	63	331
Rock	1	332
Shale and boulders	278	610
Shale	262	872
Shale and boulders	41	913
Shale	1025	1938
Chalk	20	1958
Broken chalk	280	2238
Shale	717	2955
Chalk	500	3455
TOTAL DEPTH		3830



Table of Drillers' Logs, Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 211</u>		
Milam Oil and Gas Co., -- White farm, 3 <sup>3</sup> / <sub>4</sub> miles west of Baileyville.		
Surface	40	40
Black shale	90	130
Rock	2	132
Black shale	238	370
Rock	1	371
Sticky shale	29	400
Hard shale	205	605
Sandy shale	96	701
Rock	2	703
Hard shale	282	985
Pure lime or chalk	185	1170
Sandy lime	186	1356
Gas sand	12	1368
TOTAL DEPTH		1368

	Thickness (feet)	Depth (feet)
<u>Well 216</u>		
B. and B. Oil Co., Woodal Bros. farm, 1 <sup>3</sup> / <sub>4</sub> miles southeast of Baileyville.		
Clay	30	30
Rock	2	32
Shale	6	38
Rock	20	58
Shale and boulders	22	80
Rock	11	91
Shale and boulders	129	220
Rock	4	224
Shale and boulders	426	650
Hard gray lime rock	4	654
Shale	92	746
Shale and boulders	169	915
Rock	2	917
Shale and boulders	33	950
Gumbo	30	980
Shale	195	1175
Rock	15	1190
Shale	165	1355
Shale and boulders	5	1360
Shale	215	1575
Sticky shale	65	1640
Chalky shale	120	1760
Hard chalk	18	1778
Chalk	384	2162
Shale and shell	189	2351
Lime and pyrites	35	2386
Lime	15	2401
Shale	26	2427
Shale, shells, and lime	29	2456
Shale	49	2505
TOTAL DEPTH		3700

	Thickness (feet)	Depth (feet)
<u>Well 220</u>		
United Workers Oil Co., H. M. Sneed Estate, 3 <sup>3</sup> / <sub>4</sub> miles south of Baileyville.		
Clay	18	18
Shale	8	26
Packed sand	17	43
Rock	2	45
Sand	8	53
Rock	3	56
Sand	15	71
Rock	1	72
Shale	20	92
Rock	3	95
Sandy shale	38	133
Rock	2	135
Sand	28	163
Rock	1	164
Hard sand	19	183
Shale	41	224
Rock	2	226
Sand	8	234
Rock	3	237
Shale	8	245
Rock	2	247
Hard shale	18	265
Lime rock	4	269
Shale	18	287
Sand and boulders	20	307
Shale	10	317
Gumbo	95	412
Sand	2	414
Gumbo	64	478
Shell	1	479
Shale	20	499
Gumbo	33	532
Shell	1	533
Shale	10	543
Gumbo	8	551
Shale	51	602
Gumbo	50	652
Shale	41	693
Gumbo	56	749
Sand	55	804
Gumbo	20	824
Soft shale	108	932
Gumbo	20	952
Shale	38	990
Gumbo	80	1070
Shale	22	1092
Gumbo	62	1154
Shale	22	1176
Gumbo	21	1197
Shale	36	1233
Gumbo	46	1279
Soft shale	67	1346

(Continued on next page)

## Table of Drillers' Logs, Milam County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Well 220--Continued</u>				<u>Well 253--Continued</u>			
Shale and gas sand		11	1357	Sticky shale		226	2429
Gumbo		28	1385	Hard shale		61	2490
Hard sand		20	1405	Sticky shale		713	3203
Gumbo		36	1441	TOTAL DEPTH			5402
Shale		49	1490	<u>Well 276a</u>			
Sandy shale		35	1525	A. H. Wray, D. D. Fowler lease, 2 $\frac{1}{4}$ miles			
Soft shale		40	1565	south of Gause.			
Gumbo		8	1573	Surface		18	18
Hard shale		48	1621	Water sand		10	28
Gumbo and gypsum		87	1708	Clay		38	66
Hard shale		20	1728	Sand and thin rock shells		38	104
Gumbo		45	1773	Clay		24	128
Hard shale		15	1788	Coal		4	132
Gumbo		56	1844	Clay		6	138
Black shale		94	1938	Sand		62	200
Gumbo		12	1950	Clay		9	209
Soft black shale		80	2030	Sand		26	235
Shale and chalk		25	2055	Sandstone		1	236
Chalk		88	2143	Yellow clay		21	257
Hard shale		125	2268	Sand		2	259
Shale and lime		95	2363	Yellow clay		5	264
Packed sand		21	2384	Sand and boulders		16	280
Hard shale		64	2448	Green sandy shale		15	295
Gumbo		12	2460	Black, gritty shale		4	299
Hard shale		158	2618	Sandstone		4	303
TOTAL DEPTH			3830	Green sandy shale		2	305
<u>Well 253</u>				Sandstone		2	307
Red Bank Oil Co., J. A. Foster lease,				Sticky shale		3	310
8 $\frac{1}{2}$ miles north of Gause.				Green sand		10	320
Sandy shale		105	105	Sand		81	401
Sand and water gravel		45	150	Dark sand		99	500
Sand		60	210	Sand and pyrite		2	502
Sand and lignite		197	407	Sandy shale		32	534
Sand		147	554	Sandstone		2	536
Sticky shale		25	579	Sandy shale		24	560
Hard sand		20	599	Sandstone and pyrite		5	565
Sand and lignite		194	793	Sticky shale		85	650
Sand and sandy shale		50	843	Hard sand		33	683
Sand and shale		168	1011	Sticky sandy shale		33	716
Sand and pyrite		5	1016	Sandstone		2	718
Sand and shale		42	1058	Sticky shale		34	752
Hard sand		73	1131	Sandstone		1	753
Sand and pyrite		3	1134	Sticky shale		21	774
Hard rock		3	1137	Tough sandy shale		32	806
Sand		20	1157	Sharp sand		23	829
Hard rock		2	1159	Gummy sandy shale		77	906
Sandy shale		65	1224	Sandy shale		39	945
Sand and sticky shale		27	1251	Soft sandy shale		5	950
Hard sandy lime		4	1255	Hard sand		7	957
Sandy shale		27	1282	Sticky shale		5	962
Hard lime		3	1285	Sandstone		2	964
Sandy shale		105	1390	Sticky sandy shale		13	977
Hard sand		2	1392	Sandstone		22	999
Shale		515	1907	Sticky, sandy shale		27	1026
Sticky shale		274	2181	Sandstone		4	1030
Green sandy shale		22	2203	(Continued on next page)			

Table of Drillers' Logs, Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 276a--Continued</u>		
Black, gritty shale	24	1054
Hard sandy shale	36	1090
Yellow clay	12	1102
Hard sandy shale	38	1140
Sandstone	3	1143
Sticky sandy shale	11	1154
Hard sand and pyrites	95	1249
Sand with shale breaks	31	1280
Limestone	2	1282
Hard sharp sand	8	1290
Coarse sand	73	1363
Sand with hard shells		?
Sand	157	1520
Sand with hard streaks of lignite lenses	82	1602
Lignite with shale breaks	148	1750
Gray shale	5	1755
Lignite	5	1760
Stidky shale	6	1766
Sandstone	4	1770
Sand and laminated gray shale	45	1815
Hard limestone	5	1820
Gumbo	25	1845
Sandstone	2	1847
Sand with shale breaks	18	1865
Sandstone	2	1867
Sandy shale	8	1875
Sandstone	1	1876
Sand and shale	54	1930
Sandstone	2	1932
Gray sandy shale	38	1970
Sandstone	1	1971
Sand and shale	29	2000
Brown sandstone	1	2001
Sandy shale	19	2020
Limestone	3	2023
Sandy shale and boulders	67	2090
Sandstone	1	2091
Soft sand	9	2100
Very hard sand	1	2101
Sharp pyrites and gumbo	44	2145
Sand	10	2155
Gumbo and shale	25	2180
Sandstone	1	2181
Hard sand	5	2186
Sticky shale	48	2234
Limestone	4	2238
Shale	29	2267
Limestone	6	2273
Gumbo	9	2282
Sandy shale	18	2300
Sandstone	3	2303
Sticky shale	57	2360
Sticky shale and boulders	20	2380
Limestone	1	2381

	Thickness (feet)	Depth (feet)
<u>Well 276a--Continued</u>		
Sticky shale	1	2382
Shale and boulders	28	2410
Shale and gumbo	40	2450
Shale, boulders, and gumbo	315	2765
Shale and gumbo	63	2828
Green sand	6	2834
Sticky shale and gumbo	66	2900
Limestone	1	2901
Sticky shale and gumbo	105	3006
TOTAL DEPTH		3006

<u>Well 324</u>		
M. Ashley, owner, 4 miles northeast of Milano.		
Sand	30	30
Shale	20	50
Sand	50	100
Shale	100	200
Sand	50	250
Shale	63	313
Sand	4	317
Shale	18	335
Lignite	7	342
Clay and gumbo	3	345
Sandstone	10	355
Shale	35	390
Lignite	3	393
Shale	14	407
Sand	3	410
Shale	18	428
Lignite	2	430
Shale	5	435
Sand	49	484
Clay or gumbo	2	486
Sand	2	488
Shale	27	515
Lignite	2	517
Sand	3	520
Shale	10	530
Clay or gumbo	39	569
Lignite	1	570
Shale	25	595
Sand	13	608
Shale	37	635
Sand	63	698
Shale	7	705
Sand	295	1000
Shale	80	1080
Gumbo	70	1150
Shale	30	1180
Sandy shale	20	1200
Gumbo	30	1230
Sand	20	1250
Gumbo	50	1300
Lime	40	1340
Gumbo	130	1470

(Continued on next page)

Table of Drillers' Logs, Milan County--Continued

Well 324--Continued		Well 357--Continued			
Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Sand	40	1510	Sand rock	49	720
Gumbo	60	1570	Lime	2	722
Lime	60	1630	Gumbo	13	735
Sand	20	1650	Sand rock	10	745
Gumbo	70	1720	Gumbo	35	780
Lime	50	1770	Rock	2	782
Sand	30	1800	Sand	18	800
Gumbo	50	1850	Rock	3	803
Sand	100	1950	Shale and boulders	47	850
Gumbo	75	2025	Sand rock	2	852
Lime chalk (Austin)	400	2425	Gumbo	8	860
Sandy shale, gumbo, and boulders	345	2770	Sand rock	18	878
Sandstone	30	2805	Gumbo	277	1155
TOTAL DEPTH	4111		Gumbo and shale	45	1200
			Rock	4	1204
			Packed sand	328	1532
			TOTAL DEPTH	1532	

Well 357		Well 358--partial log			
Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Joel B. Terrell et al., J. B. Newton lease, 1 1/2 miles south of Milano.		Elliott and Tuttle, P. W. Buer farm, 1 1/2 miles south of Milano.			
Yellow clay	12	12	Sand	280	280
Sand rock	4	16	Shale	35	315
Yellow sand	69	85	Sand	165	480
Water sand	10	95	Shale	335	815
Gray sand	73	168	Lignite	15	830
Lignite	4	172	Sticky shale	80	910
Gray sand	20	192	Sandy shale	60	970
Sand rock	3	195	Sand	130	1100
Gray sand	20	215	Sticky shale	50	1150
Rock	2	217	Sand	55	1205
Packed sand	20	237	Reported total depth	1500	
Herd rock	4	241			
Sand	19	260			
Rock	2	262			
Sand	28	290			
Rock	1	291			
Gumbo	19	310			
Sand	20	330			
Rock	4	334			
Gumbo	16	350			
Sand	30	380			
Gumbo	20	400			
Rock	2	402			
Sand	18	420			
Gumbo	11	431			
Rock	2	433			
Sand	47	480			
Gumbo	10	490			
Rock	1	491			
Sand	60	551			
Gumbo	11	562			
Sand	18	580			
Sand rock	15	595			
Gumbo	35	630			
Pyrites of iron	3	633			
Gumbo	38	671			

Well 416	
Thickness (feet)	Depth (feet)
W. F. Horton farm, 1 3/4 miles north of Rockdale.	
Surface	17
Sand	43
Gravel and sand	10
Sand	24
Rock	1
Sand	1
Rock	19
Water sand	5
Rock	20
Sand	1
Shale	259
TOTAL DEPTH	400

This log reported from near by oil well which, according to driller, had similar formation.

Table of Drillers' Logs, Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 421</u>		
E. H. Noack, Fritz Bauer lease, 5 miles north of Rockdale.		
Surface	17	17
Sand	63	80
Blue water sand	10	90
Gravel	8	98
Rock	1	99
Sandy shale	31	130
Shale	232	362
Dark shale	138	500
Light shale	109	609
Green sand	10	619
Light shale	19	638
Rock	1	639
Light shale	19	658
Rock	1	659
Light shale	69	728
Oil sand	1	729
Shale	2	731
Rock	1	732
Oil sand and shale	8	744
See page 39 for log of well 423.		
<u>Well 427--partial log</u>		
E. A. Doss farm, 4 miles west of Rockdale		
Yellow clay	20	20
White dry sand	260	280
Shell, rock, and flinty shale with streaks of lignite	20	300
Flinty shell rock	450	750
Dry white sand	460	1210
Hard black shale	2	1212
Lignite	12	1224
White water sand	4	1228
Lignite	7	1235
White water sand	10	1245
Lignite	7	1252
White water sand	448	1700
TOTAL DEPTH		1700

	Thickness (feet)	Depth (feet)
<u>Well 429</u>		
Groneman Brothers, Fritz Dornhoeffer farm, 3 miles west of Rockdale.		
Surface clay	21	21
Rock	1	22
Sandy shale	26	48
Rock	1	49
Sandy shale	39	88
Rock	2	90
Sandy shale	40	130
Sand	2	132
Sandy shale	228	360
Rock	1	361
Shale	499	860
Green sand	7	867

	Thickness (feet)	Depth (feet)
<u>Well 429--Continued</u>		
Shale	120	987
Rock	1	988
Shale	10	998
Rock	1	999
Loose shale	421	1420
Gummy shale	362	1782
Shale	278	2060
Hard shale	12	2072
Loose shale	178	2250
Hard shale	5	2255
Shale	258	2513
Taylor marl	102	2615
Austin chalk	104	2719
Crystallized lime	26	2745
Austin chalk	95	2840
Eagle Ford shale	120	2960
Limerock	12	2972
Broken shale and shells	23	2995
Shale and broken chalk	50	3045
Chalk	94	3139
Shale with laminated lime	38	3177
Hard limestone	69	3246
Broken shale	37	3283
Broken lime	33	3316
Lime	24	3340
White lime	72	3412
Hard lime	51	3463
Dobie	10	3473
Edwards lime (hard)	3	3476
Edwards lime (broken)	17	3493
Edwards lime	47	3540
Edwards lime is proud with some gas.		
Halliburton test shows sulphur water and salt.		

	Thickness (feet)	Depth (feet)
<u>Well 450a</u>		
Glass Oil Co., Holliman Estate, 11 miles east of Thorndale.		
Clay	6	6
Rock	2	8
Clay	12	20
Sand	15	35
Coal	5	40
Shale	10	50
Sand	25	75
Coal	15	90
Light shale	10	100
Sand	25	125
Light shale	25	150
Sand and shale	25	175
Coal	50	225
Shale and rock	25	250
Sand	25	275
Coal end rock	25	300
Sand	20	320

(Continued on next page)

Table of Drillers' Logs, Milam County--Continued

Well 450a--Continued		Well 450a--Continued			
Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Light shale	30	350	Rock	5	2130
Sand and rock	30	380	Sandy shale	7	2137
Shale and boulders	30	410	TOTAL DEPTH		2137
Dark shale	40	450			
Light shale	25	475			
Sand	25	500			
Dark shale	30	530			
Coal and dark shale	20	550			
Light shale	25	575			
Gumbo	5	580			
Dark shale	20	600			
Gumbo and rock	20	620			
Green and black shale	20	640			
Gumbo	20	660			
Gray shale	15	675			
Gumbo and dark shale	25	700			
Brown shale and coal	20	720			
Light shale	30	750			
Dark shale and gumbo	25	775			
Light shale	15	790			
Gray shale	20	810			
Gumbo and shale	20	830			
Gas, sand, and shale	10	840			
Light shale	20	860			
Gumbo and boulders	15	875			
Gray shale	25	900			
Rock	4	904			
Gumbo	16	920			
Dark shale	15	935			
Gumbo	15	950			
Rock	5	955			
Light shale	25	980			
Rock	5	985			
Dark shale	65	1050			
Sandy shale	50	1100			
Dark shale	50	1150			
Rotten shale	100	1250			
Light shale	75	1325			
Dark shale	125	1450			
Rock	12	1462			
Brown shale	38	1500			
Gumbo	50	1550			
Rotten shale	150	1700			
Gumbo	60	1760			
Green sand	10	1770			
Gas sand	5	1775			
Light shale	75	1850			
Dark shale	75	1925			
Gumbo	25	1950			
Rock	5	1955			
Dark shale	25	1980			
Green sand	10	1990			
Rotten shale	60	2050			
Rock	6	2056			
Rotten shale	44	2100			
Gumbo	25	2125			

Well 451a	
Magnolia Petroleum Co., M. M. Kime lease. 8½ miles east of Thorndale.	
Surface sand	70 70
Clay	6 76
Water sand	42 118
Clay	82 200
Lignite	4 204
Sand	101 305
Clay	10 315
Shale	15 330
Sand	20 350
Shale	20 370
Hard sand	20 390
Shale lime	32 422
Hard lime	2 424
Broken lime	10 434
Shale	8 442
Lime shell	1 443
Shale	9 452
Lime shell	2 454
Sand	18 472
Sandy shale	101 573
Lime shell	7 580
Shale and shells	40 620
Clay	10 630
Hard shale	80 710
Sticky shale	115 825
Lime shell	2 827
Shale	83 910
Sand	12 922
Gumbo	22 944
Shale and shells	106 1050
Gumbo	20 1070
Shale and shells	80 1150
Gumbo	20 1170
Clay and shells	30 1200
Gumbo	20 1220
Shale	10 1230
Gumbo	40 1270
Shale	20 1290
Gumbo	25 1315
Lime and shell	3 1318
Gumbo	32 1350
Shale and shells	90 1440
Gumbo	20 1460
Shale	43 1503
Hard sand	2 1505
Lime and shell	4 1509
Shale	31 1540
Gumbo	55 1595

(Continued on next page)

## Table of Drillers' Logs, Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 451a--Continued</u>		
Shale	10	1605
Gumbo	45	1650
Sticky shale	100	1750
Gumbo and lime	55	1805
Shale	55	1860
Gumbo	25	1885
Shale	10	1895
Gumbo	110	2005
Shale	15	2020
Clay and shale	52	2072
Gumbo	28	2100
Shale	100	2200
Gumbo	40	2240
Shale	130	2370
Lime and shell	5	2375
Shale	65	2440
Soft chalk	30	2470
Broken chalk	30	2500
Chalky shale	115	2615
Shale	130	2750
Shale and lime	135	2885
Austin chalk	475	3360
TOTAL DEPTH		3877

<u>Well 423</u>		
E. H. Noach, Mr. Joe Bauer farm, 5 miles north of Rockdale.		
Surface	17	17
Sand	43	60
Gravel and sand	10	70
Sand	24	94
Rock	1	95
Sand	20	115
Rock	5	120
Sand	20	140
Rock	1	141
Sand	59	200
Dark shale	200	400
Light shale	205	605
Green sand	10	615
Light shale	54	669
Rock	1	670
Light shale	49	719
Shale	12	731
Broken oil sand and shale	7	738
Rock	1	739
Shale	12	751
TOTAL DEPTH		751

<u>Well 471</u>		
Walter Michalk, W. T. Johnson lease, $4\frac{1}{4}$ miles north of Thorndale.		
Surface soil	20	20
Yellow clay	20	40
Rock	1	41

	Thickness (feet)	Depth (feet)
<u>Well 471--Continued</u>		
Shale	159	200
Sandy shale	15	215
Gas showing		
Shale	250	465
Rock	1	466
Sandy shale	14	480
Shale	360	840
Pecan gap	80	920
Sandy shale	40	960
Shale	140	1100
Sandy shale	40	1140
Shale	260	1400
Sandy shale	35	1435
Chalk	435	1870
Buda lime	76	1946
Del Rio	74	2020
Georgetown lime	201	2221
Doby	9	2230
Edwards lime	1	2231
Flowing sulphur water		
TOTAL DEPTH		2231

<u>Well 480</u>		
Crazy Crystal Co., Holman and Pfluger lease, $1\frac{1}{2}$ miles northeast of Thorndale.		
Soil	4	4
Joint clay	38	42
Soft shale	278	320
Hard shale	110	430
Sticky shale	182	612
Hard shale	122	734
Lime rock	1	735
Hard shale	245	980
Pecan gap (lime)	55	1035
Tough gumbo	5	1040
Upper Taylor marl	325	1365
Lower Taylor marl	41	1406
Austin chalk	478	1884
Eagle Ford shale	16	1900
Buda lime	73	1973
Del Rio clay	43	2016
Georgetown lime	167	2183
Dobe	29	2212
Edwards cap	2	2214
Edwards lime and sulphur water	284	2498
TOTAL DEPTH		2498

Logs of test wells drilled by W. P. A. labor in Milam County, Texas  
 Samples examined and classified by W. I. Clark, Jr.,  
 Project Superintendent

	Thickness (feet)	Depth (feet)
<u>Well 2</u>		
Side of draw, county road 1 mile east of Sandy Ridge School, $8\frac{1}{2}$ miles northeast of Davilla.		
Black gumbo	2	2
Yellow gray laminated clay	8	10
Blue sandy shale	1	11
Yellow sandy shale	2	13
Blue shale with small crystals of gypsum	10	23
No water sample collected. Apr. 27, 1936		

	Thickness (feet)	Depth (feet)
<u>Well 5</u>		
Gentle slope, Alvin Dusek track, 7 miles northeast of Davilla.		
Black gumbo with small quartz gravel	2	2
Chalky sandy clay	18	20
Fine gray sand with small quartz gravel	1	21
Yellow sandy clay	3	24
Water at 21 feet.		
Water level, 20.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Apr. 27, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 15</u>		
Gentle slope, Paul Vitmar tract, $1\frac{1}{4}$ miles northeast of Davilla.		
Sandy loam	3	3
Chalk	3	6
Fine yellow sand	1	7
Fine white sandy gravel with quartz and small fossils	5	12
Yellow sandy gravel	2	14
Rock		14
No water sample collected. Mar. 28, 1936		

	Thickness (feet)	Depth (feet)
<u>Well 19</u>		
Gentle slope, side of county road, 2 miles east of Davilla.		
Black gumbo	3	3
White chalky clay	5	8
White sandy clay	1	9
Chalky conglomerate rock		9
No water sample collected. Mar. 30, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 25</u>		
Valley floor, side of county road, $4\frac{3}{4}$ miles east of Davilla.		
Black clay	2	2
Yellow laminated clay with small particles of gypsum	18	20
No water sample collected. Apr. 3, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 34</u>		
Gentle slope, side of county road, 2 miles southeast of Davilla.		
Sandy loam	1	1
Red clay	3	4
Chalk with clay	7	11
White clay with chalk	3	14
No water sample collected. Apr. 4, 1936		

	Thickness (feet)	Depth (feet)
<u>Well 39</u>		
Gentle slope, side of county road, $4\frac{1}{2}$ miles southeast of Davilla.		
Black gumbo	5	5
Light yellow chalky clay	3	8
Yellow clay with small quartz gravel	1	9
Fine gravelly sand with clay	2	11
Water level, 6.2 feet below top of ground, 3 hours after hole completed.		
Water sample collected. Mar. 31, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 41</u>		
Gentle slope, side of county road, $\frac{1}{4}$ mile east of county line, $5\frac{1}{2}$ miles south of Davilla.		
Black gumbo	2	2
Tan chalky clay	6	8
Tan sandy clay	4	12
Wet sandy clay	1	13
Tan sand and water	1	14
Conglomerate rock		14
Water level, 12.5 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Mar. 31, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 47</u>		
Valley floor, side of county road $\frac{1}{4}$ mile north of Alligator Creek, $5\frac{1}{2}$ miles southeast of Davilla.		
Black gumbo	7	7
Yellow gray clay with small gravel	2	9
Yellow clay with large flint rocks	1	10
Yellow shale with gypsum	3	13
No water sample collected. Apr. 1, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 50</u>		
Top of ridge, R. B. Bolton tract, 5 miles southeast of Davilla.		
Black gumbo	1	1
Black gumbo with small quartz gravel and chalk	1	2
Light yellow chalky clay	9	11
Yellow shale	12	23
No water sample collected. Apr. 1, 1936.		



## Logs of test wells in Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 55</u>		
Rolling plain, side of county road, $5\frac{1}{2}$ miles southeast of Davilla.		
Black clay	2	2
Chalky whitish streaked clay	7	9
Dense white chalky clay	6	15
No water sample collected. Mar. 13, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 57</u>		
Rolling upland, side of county road, 6 miles east of Davilla.		
Gravelly black loam	2	2
Gravelly red clay with quartz gravel	6	8
Red clay with small gravel	2	10
No water sample collected. Mar. 14, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 63</u>		
Top of knoll, A. W. Von Rosenberg tract, 7 miles southeast of Davilla.		
Gravel with small pockets dry sand	10	10
Yellowish gray mottled clay	50	60
No water sample collected. Mar. 13, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 66</u>		
Gentle slope, 300 feet west of Sharpe School on J. R. Middleton tract, $7\frac{1}{2}$ miles east of Davilla.		
Black loam	2	2
Clay with small quartz gravel	13	5
White chalky clay	2	7
Dry powdery yellow chalk	1	8
Grayish yellow laminated clay with gypsum crystals	30	38
No water sample collected. Apr. 13, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 67</u>		
Gentle slope, Arthur Von Rosenberg tract, $7\frac{1}{2}$ miles east of Davilla.		
Gravelly clay with small quartz pebbles	5	5
Fine red sand	1	6
White chalk	1	7
Gravel with clay and water	2	9
Gray and yellow mottled clay	7	16
Water level, 514 feet below top of ground, 4 hours after hole completed. Water sample collected. Apr. 15, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 68</u>		
Top of hill, 900 feet south of Sharpe Church on Elmer Byrd tract, $7\frac{1}{2}$ miles east of Davilla.		
Gravelly loam	1	1
Yellow clay with small quartz gravel	3	4

	Thickness (feet)	Depth (feet)
<u>Well 68--Continued</u>		
Gray chalky clay	1	5
Yellow and white mottled clay	5	10
Yellow and gray mottled clay	15	25
Yellow clay with particles of gypsum	3	28
Yellow and gray mottled clay	4	32
Blue shale	1	33
Yellow and gray mottled clay	7	40
No water sample collected. Mar. 17, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 70</u>		
Top of knoll, $\frac{1}{2}$ mile east of Sharpe on Hargrove tract, 8 miles east of Davilla.		
Chocolate colored loam with small quartz gravel	2	2
Yellow clay with small quartz gravel	1	3
Fine chalky gravel	1	4
Chalk	1	5
Fine chalk and gravel	2	7
Greenish yellow clay	19	26
No water sample collected. Mar. 19, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 74</u>		
Top of low ridge, across road from Sharpe Cemetery, $8\frac{1}{2}$ miles east of Davilla.		
Black gumbo	2	2
Yellow clay with fossils, sand and small gravel	4	6
White chalky clay	1	7
Chalky yellow clay and sand	1	8
Sandy yellow clay with water	1	9
Yellow and gray mottled clay	7	16
Water level, 5.5 feet below top of ground, 12 hours after hole completed. Water sample collected. Mar. 26, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 75</u>		
Valley floor, 100 feet south of intersection of Norman Valley and Tracey roads, 9 miles east of Davilla.		
Black gumbo	4	4
Mottled yellow clay with small particles of gypsum	18	22
No water sample collected. Mar. 26, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 84</u>		
Gentle slope, side of county road, 1 mile west of Tracy and $\frac{1}{4}$ mile south on Duncan School road, $10\frac{1}{2}$ miles east of Davilla.		
Black gumbo	2	2
Gray sand	22	24
White sand and clay	2	26
Yellow mottled clay	2	28
No water sample collected. Mar. 27, 1936.		

Logs of test wells in Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 101</u>		
Flat, 100 feet east of Cattail bridge, 7 miles south of Cameron.		
Sandy loam	3	3
Light sand	4	7
Sandy clay	3	10
Fine grained, greenish sand	5	15
Caving		15
Water level, 10.6 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Apr. 11, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 108</u>		
Gentle slope, between Tracy road and S. P. R. R., 1 1/4 miles southwest of Cameron.		
Sandy loam	2	2
Red sandy clay	4	6
Sandy clay with large flints	2	8
Laminated gray, yellow clay	34	42
Dense blue shale	14	56
No water sample collected. May 27, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 109</u>		
Gentle slope, Phillip Reid tract, 1 3/4 miles southwest of Cameron.		
Sandy loam with small quartz and flint pebbles	2	2
Red clay with small quartz and flint rocks	4	6
Yellow gravelly clay	2	8
Gravel rock	1/2	8 1/2
Water level, 7.3 feet below top of ground, 2 hours after hole completed.		
Water sample collected. May 19, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 110</u>		
Top of hill, Ernest Howard tract, 2 3/4 miles southwest of Cameron.		
Sandy clay with small quartz gravel chalk and flint rock	15	15
Gray and yellow laminated shale	7	22
No water sample collected. July 28, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 111</u>		
Gentle slope, John House tract, 3 1/2 miles southwest of Cameron.		
Red clay with small quartz gravel	5	5
Red clay with small gravel and large flints	1	6
Sandy yellow clay with small gravel	2	8
Sandy gravel		8
Water level, 5.6 feet below top of ground 12 hours after hole completed.		
Water sample collected. July 29, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 114</u>		
Gentle slope, Cole Ross tract, 4 1/4 miles southwest of Cameron.		
Black gumbo with small gravel	4	4
Yellow gumbo and gravel	1	5
Chalk and clay	2	7
Yellow clay with chalk nodules	10	17
No water sample collected. Mar. 16, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 144</u>		
Flat, John R. Lott tract, 9 miles northwest of Cameron.		
Black gumbo	3	3
Chalky white clay	6	9
Laminated yellow and gray clay	16	25
No water sample collected. June 13, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 145</u>		
Gentle ridge slope, Perry Wilkerson tract 6 miles north of Cameron.		
Black gumbo with large flints small quartz gravel	6	6
Laminated gray and yellow shale	22	28
No water sample collected. May 21, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 147</u>		
Gentle slope, Rush Thomas tract, 5 miles north of Cameron.		
Black gumbo with flint pebbles	4	4
Yellow chalky shale	2	6
Yellow and blue laminated shale	15	21
Hard yellow sandstone		21
No water sample collected. May 14, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 153</u>		
Side of knoll, Don Slocomb tract, 3 miles north of Cameron.		
Sandy loam with small quartz gravel	3	3
Gray limey clay	2	5
White lime	1	6
Gray limey shale	2	8
Tan and gray laminated shale with gypsum crystals	21	29
Gray clay with gypsum crystals and green sand	4	33
Too hard to penetrate		33
No water sample collected. June 16, 1936.		

Logs of test wells in Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 163</u>		
Flat, Andrew Esslinger tract, 1-3/4 miles northeast of Cameron.		
Sandy clay with small quartz gravel and flint rock	7	7
Sandy gravel	2	9
Rock		9
Water level, 7.4 feet below top of ground, 2 hours after hole completed.		
Water sample collected. June 5, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 166</u>		
Gentle slope, side of County road, 4-3/4 miles southeast of Cameron.		
Surface sand	2	2
Red and yellow clay	2	4
Sandy clay	5	9
Sandy shale	11	20
Sand	2	22
Sandy shale	8	30
Blue gumbo	2	32
Yellow sand	5	37
White sand	2	39
Yellow sand	3	42
White sand	12	54
Yellow sand	4	58
Sandy shale with small iron concretions	2	60
Blue clay with small flakes of lignite	12	72
Rusty colored sand	16	88
White sand	10	98
Water level, 97.5 feet below top of ground, 10 hours after hole completed.		
Water sample collected. Apr. 23, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 167</u>		
Top of ridge, Elmer McFarland tract, 5 miles southeast of Cameron.		
Surface sand	2	2
Red clay	2	4
Tan sand	2	6
White sand	5	11
Tan sandy clay	6	17
Gray clay	6	23
Brown coarse sand	2	25
Gray clay	7	32
Rusty colored sandy clay	1	33
Coarse tan sand	18	51
Gray sandy clay	3	54
Coarse white sand	6	60
Rusty colored sand with small pieces of sand rock	4	64
Tan, fine grained sand	7	71
Fine grained blue clay	3	74

	Thickness (feet)	Depth (feet)
<u>Well 167--Continued</u>		
Rusty colored sand with small pieces of iron rock	2	76
Blue sandy clay	8	84
Coarse rusty colored sand	10	94
Rusty colored sand with sand rock	10	104
No water sample collected. May 6, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 168</u>		
Top of small knoll, F. E. Jackson, 5 miles southeast of Cameron.		
Coarse white sand	3	3
Sandy red schist	9	12
Coarse tan sand	18	30
Fine white sand with mica flakes	37	67
Tan sand	21	88
White sand with mica flakes	10	98
Fine gray quicksand		98
No water sample collected. May 14, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 178a</u>		
Gentle slope, Chas. McDermott, 4-3/4 miles east of Cameron.		
Sandy loam	2	2
Red sandy clay	2	4
Yellow sandy shale	6	10
Gray sand and sandy shale	15	25
Sandy shale with small sandstone	2	27
Gray sandstone	1	28
Sandstone		28
No water sample collected. June 6, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 178b</u>		
Top of ridge, Chas. McDermott tract, 4-3/4 miles east of Cameron.		
Top sand	1	1
Sandy red clay	3	4
Tan sand	20	24
Sand and sandy shale	4	28
Soft white sandstone	7	35
Sandy shale and sand	4	39
No water sample collected. June 19, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 205</u>		
Valley, side of County road, 1/4 mile east of Little River Church, 7 miles southwest of Baileyville.		
Black loam	2	2
Sandy yellow clay	4	6
Sandy blue shale	3	9
Sandy yellow shale	1	10
Chocolate colored and yellow clay	1/2	10 1/2

Logs of test wells in Milam County--Continued

Well 205--Continued		Well 313	
Rock	Thickness (feet)	Thickness (feet)	Depth (feet)
Gentle slope, Lee O'neal tract, 11-1/2 miles west of Baileyville.		Flat, Fred Brannan tract, 3/4 mile east of Milano	
Black gumbo	4	Sand and yellow clay	7
Yellow clay and gumbo	2	Red sandy clay	10
Chalky yellow sandy clay	4	Red sandy clay and soft purple sandstone lumps	1
Laminated yellow clay	10	Soft yellow sandstone	3
Yellow clay with gypsum crystals	4	Hard red sandstone	1
No water sample collected, June 11, 1936.		Sandy clay and thin streaks of white wet sand	
Well 209		Clay and green sand	
Gentle slope, side of county road, 9 1/2 miles north of Gause.		Hard rock, clay and green sand	
Surface gravel with small flint pebbles	2	Water level, 26.5 feet below top of ground, 36 hours after hole completed. Water sample collected, Aug. 22, 1936.	
Yellow sandy clay	3	Well 314	
Laminated streaks of brown clay and gray sand	3	Gentle slope, J. T. Robinson tract, 1/4 mile south of Milano.	
White and tan sand with streaks of rusty colored clay	7	Tan sand	
Fine white sand	3	Rusty red sand with thin clay streaks	
Tan sand	4	Fine white sand	
Fine white sand	10	Soft violet and tan sandstone	
No water sample collected, Mar. 4, 1936.		Chocolate sand	
Well 303		Soft, rust colored sandstone	
Gentle slope, roadside, 1 mile southeast of Summit School, 3-1/4 miles southeast of Milano.		Damp, gray sand	
Loamy surface sand	4	Rust colored sand	
Gray and red sandy clay	3	Rock	
Fine yellow sand	6	No water sample collected, July 3, 1936.	
Dense gray clay	1/2	Well 315	
Water level, 10.5 feet below top of ground, 2 hours after hole completed. Water sample collected, May 5, 1936.		Side of ridge, T. McCollum tract, northwest edge of Milano.	
Well 312		Sandy red clay	
Gentle slope, Louis Holderness tract, 1 mile east of Milano.		Stone with thin gray streaks	
Yellow clay	3	Soft, rusty colored sandstone	
White gritty clay	15	Fine white packed sand	
Sharp white sand	4	Soft, yellow sandstone	
Brown sandy clay	4	Red sandstone	
Sharp white sand	13	Pink packed sand	
Yellow sandy clay	2	Pink sand	
Black sand	15	Rusty colored loose sand	
Herd sand rock	1	No water sample collected, Aug. 5, 1936.	
No water sample collected, Aug. 5, 1936.		Well 316	
		Top of ridge, V. W. Brooks tract, west edge of Milano.	
		Red sandy clay	

## Logs of test wells in Milam County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 316--Continued</u>		
Gray sand with clay	9	13
Sandy gray clay	3	16
Black lignitic clay	2	18
Lignite	4	22
Clay sand with mica flakes and clay	5	27
Gray micaceous sand and water	1	28
Water level, 21.5 feet below top of ground, 10 hours after hole completed. No water sample collected. Aug. 26, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 317</u>		
Gentle slope, 1000 feet south of school in Milano.		
Sandy clay	7	7
Hard iron rock	1	8
Soft rust colored sandstone	32	40
Fine ye low sand	7	47
White sandy clay	1	48
Fine yellow sand	5	53
Fine white sand	1	54
Fine yellow sand with small lumps of chocolate clay	6	60
Fine gray and yellow sand	5	65
Fine gray sand with streaks of gray clay	7	72
Fine gray sand and water	3	75
Water level, 72 feet below top of ground, 12 hours after hole completed.		

	Thickness (feet)	Depth (feet)
<u>Well 318</u>		
Top of ridge, 1000 feet south of school in Milano.		
Red clay	4	4
Sandy gray shale	11	15
Black lignitic sooty clay	1	16
Chocolate colored clay	4	20
Wet yellow sand (strong water)	4	24
Water level, 17 feet below top of ground $\frac{1}{2}$ hour after hole completed. Water sample collected, Aug. 13, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 320</u>		
Hillside, S. J. Hilliard tract, $\frac{3}{4}$ mile north of Milano.		
Sandy loam	4	4
Sandy red clay	6	10
Red and white sandy clay	4	14
Iron rock		14
No water sample collected. Aug. 15, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 331</u>		
Gentle slope, Theo Aschenbeck tract, $3\frac{3}{4}$ miles north of Milano.		
Fine gray sand	7	7
Sandy chocolate colored clay		8
Gray sand with rusty colored streaks	10	18
Fine tan sand	12	30
Rusty colored sand	2	32
Lignite	1	33
Chocolate colored clay	1	34
Rusty colored sand	1	35
Red sand	1	36
Fine gray sand and water	5	41
Water level, 39 feet below top of ground, 1 hour after hole completed. Water sample collected. July 30, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 334</u>		
Gentle slope, E. Bisinger tract, $5\frac{1}{2}$ miles northwest of Milano.		
Sandy top soil	2	2
Red sandy clay	3	5
Red sand	2	7
White sand with small flakes of mica	17	24
Tan sand with small flakes of mica	6	30
Gray shale	1	31
Wet gray sand	3	34
Wet sandy gray shale	4	38
Tan sand	24	62
Rust colored sand	28	90
No water sample collected. June 2, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 336</u>		
Gentle slope, Bill Groce tract, $4\frac{1}{2}$ miles northwest of Milano.		
Surface sand	3	3
Tan sand	35	38
White sand	27	65
Fine gray quicksand and water	2	67
Water level, 64.8 feet below top of ground, 6 hours after hole completed. Water sample collected, June 1, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 337</u>		
Gentle slope side of county road, $1\frac{1}{4}$ miles southwest of Hoyte, $5\frac{1}{2}$ miles northwest of Milano.		
Surface sand	2	2
Red sandy clay	5	7
Gray micaceous sand	23	30
Wet gray sand	1	31
Blue clay	1	32
White micaceous sand	30	52
No water sample collected. June 4, 1936.		

Logs of test well in Milan County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 342</u>		
Gentle slope, side of county road, 2 miles northwest of Mt. Zion Church, 5 $\frac{1}{2}$ miles west of Milano.		
Surface sand	2	2
Yellow streaked sandy clay	3	5
Rusty colored sand	2	7
Iron sand rock		7
No sample collected, April 30, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 349</u>		
Top of ridge, V. W. Brooks tract, 1 mile west of Milano.		
Red sandy clay	4	4
White sand with shale streaks	11	15
Grayish green sandy shale	16	31
Gray sandy shale with concretions	25	56
Thin layers of sand, slate, and shale	14	70
No water sample collected, Aug. 27, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 414</u>		
Gentle slope, 1 $\frac{1}{2}$ miles north of Talbot Ridge and 2 miles southeast of Mt. Zion, 4 miles north of Rockdale.		
Coarse white sand	8	8
Fine quicksand	2	10
Water level, 3 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected, Apr. 30, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 424</u>		
Flat terrace above river bank, river crossing north of San Gabriel $\frac{1}{4}$ mile east of mouth of Brushy Creek, 5 $\frac{1}{2}$ miles northwest of Rockdale.		
Black sandy loam	4	4
Fine dry sand	18	22
No water sample collected, Apr. 15, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 425</u>		
Valley floor, $\frac{1}{2}$ mile east of Brushy creek bridge at roadside, 5 miles northwest of Rockdale.		
Black loam	2	2
Yellow clay	3	5
Sticky black gumbo	5	10
Wet black gumbo	6	16
No water sample collected, Apr. 16, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 434</u>		
Roadside, 300 feet east of Hamilton Chapel, 3 $\frac{1}{4}$ miles southwest of Rockdale.		

	Thickness (feet)	Depth (feet)
<u>Well 434-Continued</u>		
Surface sand	3	3
Gray sandy shale	11	14
Lignitic clay	1	15
Chocolate clay	5	20
Dusty lignite ashes	5	25
Lignite	1	26
Wet lignitic clay and water	1	27
Water level, 25.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected, May 12, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 450</u>		
Gentle slope, 1150 feet west of southeast corner of Dalston tract, 10 miles east of Thorndale.		
Clay and sand	12	12
Water sand	6	18
Sand and shale	42	60
Water sand	21	81
Lignite	1	82
Shale	8	90
Lignite	6	96
Clay	$\frac{1}{2}$	96 $\frac{1}{2}$
Lignite	8 $\frac{3}{4}$	105
Shale		105
No water sample collected, June 9, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 454</u>		
Gentle slope, 1 mile southwest of Pleasant Hill School, 8 $\frac{1}{2}$ miles southeast of Thorndale.		
Sand and clay	18	18
Sand	6	24
Clay and sand	4	28
Water sand	3	31
Clay and sand	4	35
Water sand	17	52
Lignite	4	56
Soft lignite and clay	8	64
No water sample collected, June 19, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 455</u>		
Gentle slope, $\frac{3}{4}$ miles southeast of Watson Branch school, 9 $\frac{1}{2}$ miles southeast of Thorndale.		
Clay and sand	30	30
Sand and shale	8	38
Water sand	9	47
Lignite	4	51
Clay and sand	9	60
Water sand and shale	15	75
Shale	7	82
Lignite	10	92
Clay and sand		
No water sample collected, June 9, 1936.		

Logs of test well in Milam County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Well 456</u>				<u>Well 456--Continued</u>			
Gentle slope, $\frac{1}{4}$ mile north of County line and $1\frac{1}{2}$ miles southeast of Watson Branch School, $10\frac{1}{2}$ miles southeast of Thorndale.				Lignite	3	180	
Clay and sand	25	25	Shale and sand	24	204		
Sand and shale	10	35	Shale	15	219		
Lignite	2	37	Lignite	4	223		
Sand and shale	43	80	No water sample collected, June 10, 1936.				
Fine grey water sand	60	140					
Shale and sand	37	177					

Partial analyses of water from wells in Milam County, Texas.

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, C. R. Stewart, D. F. Riddell, and Alfred J. Kelly, Chemists, and J. A. Harmaza, Martin Wieland and Jack Ramsey, Assistant Chemists. 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 (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
3	Dallas Bank & Trust	12	Apr. 27, 1936	218	-	-	-	146	38	28	-
4	R. L. Batte	30	do.	588	-	-	-	366	75	116	-
5	W.P.A. test well	24	do.	520	-	-	-	183	46	195	-
6	R. Gersbach	17	do.	282	84	7	17	293	15	15	240
7	Logan Mewhinney	8	Mar. 30, 1936	453	-	-	-	403	48	35	-
8	W. H. Walker	20	do.	345	-	-	-	342	23	21	-
9	W. R. Cryer	Spring	do.	185	-	-	-	195	10	7	-
10	Tom Henderson	15	do.	312	-	-	-	305	27	15	-
11	T. B. Burdette	24	Mar. 28, 1936	974	158	34	154	244	183	385	536
12	J. C. Johnson	35	do.	283	-	-	-	146	11	96	-
13	G. A. Krause	23	do.	323	-	-	-	299	25	27	-
14	do.	Spring	do.	343	102	7	21	305	21	42	285
16	H. L. Harris	14	do.	472	158	9	3	262	63	110	430
17	John Wilson	48	do.	938	-	-	-	317	67	405	-
18	Wm. R. Rogers	31	do.	819	154	17	131	343	86	260	456
20	W.P. Ross Estate	12	Mar. 30, 1936	308	-	-	-	317	15	17	-
21	E. B. Flore	20	do.	519	132	9	59	464	37	54	365
22	P. E. Holder	23	do.	368	-	-	-	291	31	60	-
23	Sam Mewhinney	18	do.	472	188	7	-	354	35	68	500
24	Henry McCormick	15	Mar. 19, 1936	358	-	-	-	145	58	100	-
26	Sam Mewhinney	1,500	Mar. 30, 1936	12,703	205	116	4,530	110	753	7,050	992
27	Dr. J. E. Scibert	14	Mar. 19, 1936	301	-	-	-	134	58	70	-
29	John Young	23	do.	569	-	-	-	226	165	96	-
30	Chas. Stegall	12	Mar. 30, 1936	666	-	-	-	507	48	98	-
31	Dr. T. S. Barclay	43	Mar. 26, 1936	2,155	-	-	-	232	63	1,200	-
32	Clarence Hines	55	do.	2,662	652	50	258	6	29	1,670	1,835
33	H. H. Hines	50	do.	2,168	-	-	-	268	29	1,220	-
35	W. A. Turner	24	Apr. 4, 1936	333	72	8	45	262	35	44	215
36	R. L. Carlow	27	do.	742	-	-	-	311	35	280	-
37	J. D. Bell	Spring	do.	198	-	-	-	134	23	35	-
38	F. Jechow	23	do.	418	-	-	-	342	38	54	-



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

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magne- sium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicar- bonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
39	W.P.A. test well	11	Mar. 31, 1936	1,972	-	-	-	256	576	605	-
40	Joe Vanek	18	do.	389	-	-	-	220	61	78	-
41	W.P.A. test well	14	do.	400	69	11	63	231	69	45	217
42	Jess Isaac	18	do.	409	-	-	-	275	61	62	-
43	Barclay Estate	16	Apr. 1, 1936	442	104	6	58	342	52	54	234
44	Harding Camp	30	do.	463	-	-	-	287	33	116	-
45	Alton Osluk	13	do.	597	-	-	-	335	46	164	-
46	J. A. Heisch	19	do.	833	382	33	-	299	61	210	1,090
48	Geo. Camble	11	Mar. 20, 1936	1,000	122	15	210	312	376	124	366
49	Henry Von Gonten	14	do.	342	-	-	-	159	81	62	-
52	Rufe Graves	22	Mar. 31, 1936	364	106	7	23	275	27	66	245
53	Earl Straus	44	Mar. 26, 1936	350	90	9	38	373	19	8	260
56	F. S. Bolton	17	Mar. 14, 1936	158	-	-	-	134	4	27	-
58	L. C. Applin	15	do.	277	93	5	7	268	19	21	253
59	J. J. Brock	10	Mar. 13, 1936	463	115	13	45	299	15	123	343
60	Paul Graves	Spring	Mar. 19, 1936	451	-	-	-	281	35	110	-
61	J. C. Hardie	18	Mar. 13, 1936	255	-	-	-	250	12	21	-
64	J. W. Brown	15	Mar. 12, 1936	211	-	-	-	183	8	32	-
65	Dan G. Davis	14	Mar. 18, 1936	331	-	-	-	159	27	104	-
67	W.P.A. test well	16	Apr. 15, 1936	2,834	476	63	472	67	280	1,510	1,449
69	Peter Mick	18	Mar. 20, 1936	470	-	-	-	317	115	30	-
71	Frank Hertenberger	40	Mar. 18, 1936	1,520	91	44	415	214	230	635	407
72	B. J. Baskin	23	do.	347	-	-	-	147	19	123	-
73	Bill Davis	37	do.	1,505	-	-	-	214	383	500	-
74	W.P.A. test well	16	Mar. 20, 1936	230	-	-	-	159	42	58	-
76	Emil Schroder	14	Mar. 19, 1936	691	-	-	-	263	165	152	-
77	W. G. Schwarz	34	do.	1,690	231	37	342	159	192	810	723
78	E. C. Fick	13	do.	332	-	-	-	293	54	42	-
79	W. G. Schwarz	Spring	do.	1,074	160	16	272	281	108	430	465
80	Chas. R. Duncan	20	do.	505	-	-	-	317	100	66	-
81	Mrs. W. F. Duncan	15	do.	1,327	197	27	264	342	131	540	602
82	M. M. Harris	16	Mar. 27, 1936	597	-	-	-	232	100	112	-
83	Jim Bartlett	15	Mar. 26, 1936	470	-	-	-	256	29	140	-
85	R. L. Tucker	30	Mar. 27, 1936	512	-	-	-	171	42	200	-

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

well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
86	Henry Platte	20	Mar. 26, 1936	815	110	16	166	330	211	150	340
87	J.C.Charles Estate	25	Mar. 27, 1936	728	114	26	129	396	69	195	391
88	do.	30	do.	462	-	-	-	311	56	82	-
89	State of Texas	Spring	do.	589	-	-	-	427	63	96	-
90	W. H. McCoy	30	Mar. 26, 1936	818	-	-	-	293	27	345	-
91	Ross Davis	33	Apr. 7, 1936	420	9	12	132	220	119	40	73
93	Earnest Gilliland	20	do.	313	-	-	-	201	54	46	-
100	Michaus Estate	160	Apr. 8, 1936	932	200	30	103	115	27	515	624
101	W.P.A. test well	15	Apr. 11, 1936	249	-	-	-	159	27	52	-
102	Mrs. Ben McClelland	32	Apr. 6, 1936	251	-	-	-	171	19	54	-
103	J. W. Kemp	30	do.	280	-	-	-	281	19	15	-
104	do.	200	do.	493	30	26	121	85	29	245	181
105	Frank Hubert	43	Apr. 11, 1936	818	-	-	-	510	31	130	-
106	E. D. Leadwell	150	May 2, 1936	2,509	484	120	141	268	1,010	535	1,716
109	W.P.A. test well	9	May 19, 1936	514	107	21	49	220	119	110	353
111	do.	8	July 29, 1936	419	-	-	-	305	42	70	-
112	Colo Ross	Spring	Mar. 16, 1936	293	76	6	32	281	15	26	214
113	do.	31	do.	238	60	6	25	226	19	17	174
115	Sam Law	Spring	May 1, 1936	400	104	6	36	281	84	32	235
117	Chester Huffman	9	May 19, 1936	213	64	3	18	238	a/	11	172
118	H. J. Havlik	16	do.	184	-	-	-	177	10	17	-
119	Joe Harellica	Spring	Mar. 18, 1936	320	-	-	-	220	15	76	-
120	do.	25	do.	401	55	21	73	250	15	114	223
121	Jud Davis	25	Apr. 14, 1936	403	-	-	-	207	63	92	-
122	Louis Walshak	14	do.	507	-	-	-	439	33	64	-
123	A. W. Zajicek	17	June 11, 1936	715	104	14	139	268	163	164	319
124	C. P. Watt	16	Apr. 14, 1936	398	-	-	-	207	88	66	-
125	D. K. Hall	13	do.	282	63	4	41	232	35	25	172
126	Mrs. J. W. McClendon	11	Apr. 2, 1936	306	-	-	-	305	23	15	-
127	F. J. Richardson	10	May 19, 1936	476	-	-	-	329	36	54	-
128	Mrs. F. Shoaf	9	do.	213	-	-	-	232	a/	15	-
129	Chas. Pavilik	14	do.	295	45	8	-	153	a/	14	145
131	M. J. Dodd	6	June 13, 1936	227	-	-	-	189	33	16	-
132	John Hollas	10	June 10, 1936	412	-	-	-	226	127	30	-

a/ Sulfate less than 10 parts per million.

Partial analyses of water from wells in Milam County--Continued

Results are in parts per million

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
133	Mondrick Estate	31	June 13, 1936	224	-	-	-	159	38	26	-
134	Mike Sipula	31	May 21, 1936	1,246	248	52	100	378	606	154	837
135	Marak Independent School	19	do.	1,885	-	-	-	384	761	315	-
136	Robert Fuller	21	do.	3,924	-	-	-	269	518	1,900	-
137	S. D. Lagrone	26	do.	837	-	-	-	464	144	162	-
139	Monroe Estate	17	June 11, 1936	1,173	-	-	-	354	544	72	-
140	Emmit Coleman	24	do.	192	36	4	33	140	12	38	108
141	G.K.Heugatter	17	do.	2,656	-	-	-	256	1,141	530	-
142	Frank Griffin	25	do.	904	-	-	-	317	173	255	-
143	Walter Fuchs	12	do.	539	-	-	-	195	146	110	-
146	G. W. Baskin	20	May 13, 1936	2,475	121	41	696	427	952	455	470
148	Dave Link	22	do.	525	-	-	-	390	6	126	-
149	Phoenix Life Ins.Co.	18	do.	209	-	-	-	153	23	33	-
150	Albert Chambers	20	do.	820	115	18	163	476	177	108	361
151	Mrs.P.L.Delahunty	13	do.	183	70	6	-	171	6	17	198
152	L. C. Boyd	12	June 5, 1936	332	73	8	46	244	15	70	215
154	Tarver & Hensley	10	Apr. 18, 1936	1,552	-	-	-	262	663	250	-
155	Mrs. Jeff Kemp	20	do.	2,207	138	33	590	262	1,037	280	406
156	do.	Spring	do.	1,797	-	-	-	208	768	345	-
157	L. A. Michalka	19	do.	806	-	-	-	329	169	190	-
158	John Hause	13	Apr. 17, 1936	313	-	-	-	299	15	33	-
159	R. L. Batte	14	do.	223	61	12	7	195	21	26	203
160	Clark Kelly	21	do.	331	-	-	-	354	11	16	-
161	R. L. Batte	20	Apr. 18, 1936	233	-	-	-	230	15	20	-
162	F. J. Fahrendorf	17	Apr. 17, 1936	348	103	6	26	334	15	24	234
163	W.P.A. test well	9	June 5, 1936	207	-	-	-	183	8	29	-
164	Mrs.W.T.Hefley	Spring	Apr. 17, 1936	215	-	-	-	134	29	41	-
165	John McClerron, Jr.	19	June 4, 1936	50	-	3	14	18	15	9	13
166	W.P.A. test well	98	Apr. 23, 1936	2,951	-	-	-	268	273	1,500	-
169	Clyde Hensley	23	Apr. 22, 1936	286	-	-	-	61	67	90	-
170	T. S. Henderson	13	do.	66	1	2	21	31	19	8	11
171	Ben Burric	42	do.	431	-	-	-	140	60	148	-
172	Alex Kennedy	44	Apr. 22, 1936	473	-	-	-	317	29	110	-
173	Benz Matocha	64	do.	152	-	-	-	92	8	42	-

Partial analyses of water from wells in Milam County--Continued

Results are in parts per million

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
174	Neal Ethridge	17	Apr. 22, 1936	73	7	4	15	31	15	17	32
175	N. Y. Hays	120	June 4, 1936	1,338	276	43	87	61	718	184	866
176	L. N. Posey	46	Apr. 28, 1936	305	-	-	-	220	15	66	-
177	do.	3,890	do.	349	8	6	130	329	10	33	44
178	John McDermott	52	June 4, 1936	1,077	-	-	-	214	460	160	-
179	do.	Spring	June 19, 1936	340	-	-	-	207	69	46	-
181	J. P. Wise	35	May 4, 1936	212	64	9	5	183	19	25	195
182	J. H. McDonald	28	June 5, 1935	627	-	-	-	445	48	124	-
183	Jim Sherfield	24	do.	185	26	3	42	146	27	15	77
184	H. H. Hartsfield	23	do.	210	-	-	-	201	15	15	-
185	A. G. Fipps	44	do.	303	69	9	34	177	17	87	211
186	Mrs. Bill Lindsey	57	do.	419	-	-	-	153	29	162	-
200	J. C. Freeman	95	do.	657	113	33	89	79	8	335	421
202	Mrs. T. F. Stidham	60	May 20, 1936	179	10	6	55	122	a/	48	49
203	Sam Rose	30	do.	661	-	-	-	139	15	310	-
204	C. G. Crook	50	do.	1,020	-	-	-	128	a/	585	-
206	Jones Prairie School	61	do.	1,209	-	-	-	580	132	350	-
207	Louis Anderson	37	do.	622	33	25	188	549	12	94	185
208	Mrs. M. Mondrick	73	do.	1,780	86	50	515	433	286	630	421
210	Tom Lehman	30	June 16, 1936	1,108	8	19	395	458	186	275	97
212	C. B. Battle	13	do.	186	43	8	20	177	a/	28	140
213	Ellison Estate	Spring	do.	215	-	-	-	171	13	37	-
215	Bob Ford	29	do.	996	-	-	-	317	345	158	-
217	Mrs. J. P. Woodall	45	do.	1,969	-	-	-	256	348	810	-
218	John H. Williams	70	do.	343	64	14	47	195	30	92	219
222	Mrs. H. M. Sneed	115	May 20, 1936	131	16	7	28	134	a/	14	69
223	Al Whiteside	100	do.	313	58	15	39	140	20	112	209
250	Boy Scouts	Spring	June 17, 1936	163	25	4	35	134	8	25	77
252	Lonzo Willis	24	June 5, 1936	953	-	-	-	415	63	335	-
254	Addie Lee Walton	30	May 4, 1936	1,455	-	-	-	110	37	840	-
255	County road	Spring	do.	637	-	-	-	354	84	146	-
256	Gibson Gin Company	400	do.	504	-	-	-	330	77	80	-
257	H. Johnson Heirs	38	June 17, 1936	157	39	7	12	110	15	30	124
258	W. C. Henderson	600	do.	304	-	-	127	299	a/	28	8

a/ Sulfate less than 10 parts per million.

Partial analyses of water from wells in Milam County--Continued

Results are in parts per million

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
259	D. F. Peel	580	June 17, 1936	418	2	3	172	408	a/	40	17
260	Fred Smith	350	May 4, 1936	256	11	5	89	256	8	17	48
261	Mrs. W. C. Looney	350	do.	231	16	6	72	244	3	9	64
262	M. R. Looney	350	do.	323	12	6	115	311	10	27	54
263	Niley Smith	350	Aug. 12, 1936	297	8	6	110	305	a/	23	43
264	Cecil Lange	26	Apr. 29, 1936	1,399	201	85	148	195	599	270	352
265	Pin Oak School	42	do.	6,662	733	445	885	195	2,433	2,060	367
266	Black & Henderson	66	do.	353	-	-	-	215	46	72	-
267	A. F. Robinson	33	do.	1,446	212	115	98	262	687	205	1,006
268	Dimming Investment Co.	73	do.	698	-	-	-	146	44	330	-
269	A. C. Roschetzky	97	do.	743	100	65	83	384	133	168	515
270	Mrs. Lillie Beaver	Spring	June 4, 1936	31	-	-	-	12	8	6	-
271	do.	Spring	do.	53	3	2	13	12	15	14	17
272	Mrs. B. C. Vanover	26	do.	140	23	3	21	85	19	27	32
273	Modis Blakcley	26	June 19, 1936	65	10	3	12	61	a/	10	37
274	State Highway Dept.	18	June 4, 1936	72	-	-	-	31	8	23	-
275	J. Eiland	17	June 19, 1936	244	-	-	-	256	a/	22	-
276	Torry Moore	16	May 6, 1936	62	-	-	-	31	12	13	-
277	B. B. Raines	16	Aug. 11, 1936	32	-	-	-	37	27	9	-
278	Chas. Jones	33	May 5, 1936	193	-	-	-	61	17	76	-
279	Conway Moore	17	May 18, 1936	324	-	-	-	275	4	60	-
280	Pat Thomas	14	May 6, 1936	220	-	-	-	85	54	47	-
281	John Thompson	18	May 18, 1936	491	-	-	-	43	252	63	-
282	Rudolph Bowling	30	May 6, 1936	977	88	58	126	-	543	160	460
283	F. B. Burks	37	do.	824	-	-	-	6	104	430	-
284	Mrs. S. F. Garrison	47	May 13, 1936	2,195	290	103	277	165	1,139	305	1,149
285	Bud Smith	900	do.	392	3	2	154	311	43	37	16
286	Critchfield Estate	331	do.	371	-	-	-	98	95	100	-
287	J. K. Freeman	19	do.	310	76	15	21	244	26	52	254
288	Dilbeck Oil Co.	Spring	May 6, 1936	70	-	4	22	49	13	7	15
289	John Frame	44	do.	199	-	-	-	85	27	53	-
290	--	Spring	do.	237	-	-	-	73	61	53	-
291	Mrs. Lizzie Tidwell	45	do.	39	3	4	24	6	25	30	22

a/ Sulfate less than 10 parts per million.

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Partial analyses of water from wells in Milam County --Continued

Results are in parts p. r million.

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
300	Bob Luce	25	May 5, 1936	366	-	-	-	268	50	48	-
301	W. H. Dreer	53	do.	167	-	-	-	12	63	43	-
302	do.	Spring	do.	151	-	-	-	24	13	72	-
303	V. P. Wooley	25	do.	128	25	4	20	92	8	26	77
304	Amos Lagrone	53	Aug. 17, 1936	414	-	-	-	-	a/	265	-
305	Ed Bullard	41	May 5, 1936	397	-	-	-	18	27	220	-
306	W.P.A. test well	13	do.	841	-	-	-	-	461	120	-
307	Ray Woods	Spring	Aug. 17, 1936	180	-	-	-	61	58	31	-
308	Bell Morgan	35	June 19, 1936	137	-	-	-	134	4	14	-
309	Jerry Brokins	12	do.	495	24	19	112	6	267	70	137
310	State Highway Dept.	49	May 5, 1936	233	32	9	43	49	21	104	115
311	M. E. Ashley	56	June 4, 1936	354	-	-	-	31	67	150	-
313	W.P.A. test well	36	Aug. 22, 1936	149	-	-	-	61	17	48	-
316	do.	28	Aug. 26, 1936	5,491	276	415	613	-	3,252	545	2,393
317	do.	75	Aug. 20, 1936	2,148	150	115	421	18	805	650	851
318	do.	24	Aug. 13, 1936	4,806	-	-	-	-	2,035	1,230	-
321	Claude White	21	Apr. 29, 1936	709	69	38	145	177	60	310	328
322	Mrs. J. B. Holland	16	do.	72	-	-	-	55	10	8	-
323	J. T. Timmons	21	do.	383	-	-	-	232	31	62	-
325	A. J. Hilderbrant	69	Apr. 23, 1936	124	-	-	-	110	10	13	-
326	Liberty School	26	Apr. 24, 1936	345	-	-	-	293	10	50	-
327	Joe Kirk	69	Apr. 29, 1936	538	74	18	102	110	40	250	261
328	Miss Julie Kirk	45	Apr. 24, 1936	4,551	329	288	765	6	2,166	1,000	2,008
329	W. A. Reese	66	do.	497	-	-	-	116	81	184	-
330	L. M. Westbrook	28	Apr. 23, 1936	337	11	2	125	256	15	58	37
331	W.P.A. test well	41	July 30, 1936	3,992	591	173	635	85	261	2,290	2,137
332	T. A. Casey	48	Apr. 23, 1936	855	-	-	-	73	98	420	-
333	Clyde Hensley	104	do.	510	-	-	-	134	23	235	-
335	F. Heitmann	127	do.	288	34	15	56	134	23	94	144
336	W.P.A. test well	67	June 1, 1936	861	112	34	131	207	388	94	421
338	A. C. Varner	31	Apr. 23, 1936	166	-	-	-	13	14	84	-
339	Mrs. J. W. Gore	63	Apr. 11, 1936	339	33	11	106	207	17	120	127
340	I.W.Moseley Estate	23	Apr. 30, 1936	96	-	-	-	55	17	17	-
341	Mrs. Le Cone	42	do.	412	-	-	-	268	67	62	-

a/ Sulfate less than 10 parts per million.

Partial analyses of water from wells in Milam County--Continued

Results are in parts per million.

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
343	Estelle Beings Nelson	28	Apr. 30, 1936	525	27	9	171	329	40	116	103
344	J. D. Nelson	45	do.	1,569	246	66	233	122	129	830	886
345	M. J. Cavil	51	do.	683	-	-	-	73	250	172	-
346	Sallie Miller	83	do.	655	-	-	-	165	204	148	-
347	Willie Nelson, Sr.	14	May 7, 1936	865	-	-	-	628	73	158	-
348	Abe Smoot	18	do.	148	9	4	44	98	23	20	37
350	Jim Netherland	66	do.	1,315	-	-	-	378	328	345	-
351	J. F. Coffield	41	May 14, 1936	848	-	-	-	67	96	420	-
352	Jim Netherland	35	do.	691	120	31	81	79	140	250	429
353	Jim Jones	59	do.	669	-	-	-	146	122	240	-
354	Hairstone Estate	77	May 11, 1936	824	113	50	113	92	83	415	501
355	do.	Spring	do.	50	6	1	11	24	8	12	21
356	G. W. Butts	118	do.	75	6	1	20	12	10	32	21
359	Buer Heirs	Spring	do.	43	-	-	-	15	8	11	-
361	Dave Collins	6	do.	95	-	-	-	49	19	18	-
362	B. Stuart	12	May 14, 1936	437	-	-	-	134	127	94	-
363	T.S.Henderson	Spring	do.	41	-	-	-	12	13	8	-
364	Rebecca Graham	60	May 15, 1936	728	25	8	220	79	286	150	95
365	Hugh Vaughn	1,114	do.	19	-	-	-	220	273	350	-
366	Mrs.R.A.Carnegie	24	do.	688	-	-	-	a/	a/	440	-
367	R. W. Wilson	47	do.	80	-	-	-	43	11	19	-
368	Mrs.J.C.Williams	66	do.	423	46	13	88	55	101	148	168
400	Guy Cook	130	May 14, 1936	383	124	51	104	256	391	92	522
401	Ira Touchstone	8	do.	1,212	44	47	378	793	53	295	304
402	Calhoun Chaddock	62	June 1, 1936	2,153	-	-	-	348	618	635	-
403	Allie Marsh	17	do.	177	-	-	-	207	a/	7	-
404	Fannie Ferguson	Spring	do.	187	-	-	-	43	37	04	-
405	J. F. Rosa	28	do.	107	13	8	13	73	7	25	65
406	E. H. Noack	222	do.	603	62	19	123	159	225	95	232
407	Mrs. Lee Stevens	100	do.	773	66	33	171	360	223	96	300
408	E. H. Foster	76	do.	1,359	269	61	105	140	455	400	923
409	Dan Bound	31	do.	120	-	-	-	140	a/	3	-
410	City of Rockdale	75	Apr. 13, 1936	276	33	14	45	49	19	136	153

a/ Sulfate less than 10 parts per million.

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Partial analyses of water from wells in Milam County--Continued

Results are in parts per million

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
411	I. & G. N. R.R.	71	Apr. 11, 1936	371	-	-	-	104	39	148	-
412	Ben Torrez	39	Apr. 30, 1936	139	-	-	-	128	10	13	-
413	A. I. Caywood	46	do.	291	38	6	66	104	15	115	119
414	W.P.A. test well	10	do.	33	8	1	2	12	8	8	26
415	Jess Kovill	81	Apr. 16, 1936	151	52	9	-	73	10	44	165
416	W. F. Horton	400	Apr. 6, 1936	110	10	-	32	24	8	48	25
417	Louis Kirchenwitz	60	Apr. 16, 1936	521	-	-	-	244	200	88	-
418	Anchor Oil Co.	180	Apr. 11, 1936	939	73	21	222	220	419	96	268
419	Rush Phillips	49	do.	4,494	821	270	287	134	1,670	1,360	3,162
420	William Luefge	160	Apr. 8, 1936	1,073	28	21	371	366	8	465	156
422	Mrs. Joe Bauer	42	Apr. 6, 1936	1,102	-	-	-	189	50	560	-
426	F. J. Kirchenwitz	53	Apr. 16, 1936	1,201	-	-	-	256	280	330	-
428	Paul Henager	40	June 2, 1936	247	38	12	41	177	34	35	142
430	Emil Dornhoeffer	55	do.	593	-	-	-	439	98	60	-
431	Pete Coffield	108	do.	531	79	16	116	110	46	270	265
432	L. E. Talbot	86	do.	293	-	-	-	153	23	90	-
433	Tom Neeley Estate	8	May 12, 1936	55	-	-	-	13	12	15	-
434	W.P.A. test well	27	do.	6,593	-	-	-	12	2,204	2,210	-
435	W. E. Gaither	37	do.	2,138	287	106	263	396	1,121	166	1,156
436	H. H. Pruitt	24	do.	806	20	20	266	281	77	285	132
437	Tom Carver	10	Mar. 12, 1936	69	-	-	-	43	14	9	-
438	E. T. Roberts	85	May 12, 1936	131	12	6	29	43	19	44	54
451	McAllister Coal Co.	190	do.	187	34	9	24	85	14	64	121
452	A. A. Rolan	110	June 3, 1936	553	86	30	78	43	8	330	338
453	H. Pruitt	13	do.	59	-	-	-	31	12	11	-
457	Mrs. J. E. Wilson	63	June 18, 1936	309	-	-	-	49	22	152	-
458	W. H. Gambrell	149	do.	677	80	26	135	122	86	290	306
459	W. B. House	63	do.	499	-	-	-	311	49	112	-
460	F. C. Stiles	97	do.	659	85	26	123	141	71	285	321
461	Claude Patterson	14	June 3, 1936	1,129	-	-	-	213	232	400	-
462	O. F. Towery	71	do.	1,284	205	77	168	293	40	650	833
463	F. J. Clement	45	do.	1,588	-	-	-	262	230	670	-
464	Ed Perry	57	do.	717	-	-	-	342	123	163	-
465	John Timmerman	33	June 2, 1936	4,075	-	-	-	110	417	2,170	-
466	Martindale Company	18	Apr. 15, 1936	636	241	11	-	146	158	154	647



Partial analyses of water from wells in Milam County--Continued

Results are in parts per million

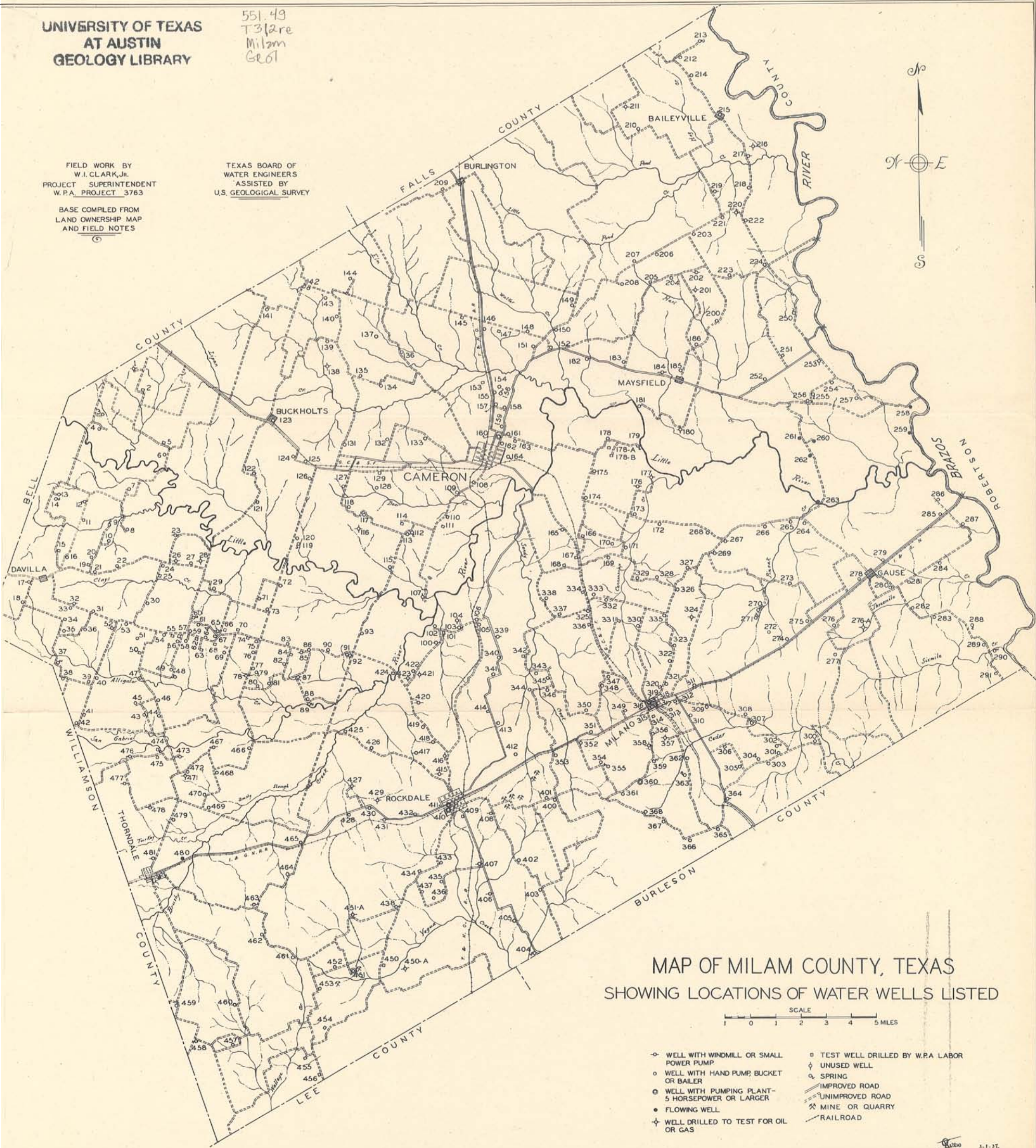
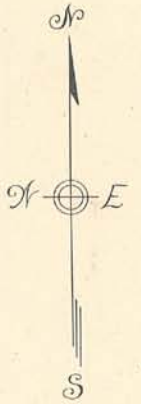
Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calc.)
467	Andrew Holder	32	Apr. 1, 1936	610	79	19	136	439	38	122	277
468	J. A. Malcrease	25	Apr. 15, 1936	4,431	-	--	-	299	726	2,020	-
469	J. B. Clement	17	do.	6,938	703	144	1,555	275	1,901	2,500	2,349
470	H. W. Rodenbeck	33	do.	1,921	277	51	367	354	180	870	902
471	N. T. Johnson	2,231	Apr. 1, 1936	1,761	-	-	-	311	81	890	-
472	do.	20	do.	1,193	123	20	293	214	177	475	393
*474	Sam Clement	Spring	Apr. 15, 1936	373	65	11	73	360	8	44	207
475	H. K. Locklin	37	do.	299	-	-	-	189	31	64	-
476	Herman Fussel	35	do.	417	-	-	-	275	52	75	-
477	Ernst Richter	45	do.	806	-	-	-	207	35	375	-
478	H. W. Rodenbeck	19	do.	308	102	13	124	366	71	144	308
479	John Melde	26	June 18, 1936	567	-	-	-	562	34	38	-
480	Crazy Crystal Co.	2,231	Aug. 3, 1936	14,836	298	79	4,730	207	6,298	3,270	1,069
481	A. L. Hines	14	June 18, 1936	331	24	22	76	293	49	16	148
*473	C. W. Barron	30	Apr. 1, 1936	468	186	16	-	275	100	31	530



FIELD WORK BY  
W.I. CLARK, JR.  
PROJECT SUPERINTENDENT  
W.P.A. PROJECT 3763

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

BASE COMPILED FROM  
LAND OWNERSHIP MAP  
AND FIELD NOTES



MAP OF MILAM COUNTY, TEXAS  
SHOWING LOCATIONS OF WATER WELLS LISTED

SCALE  
1 0 1 2 3 4 5 MILES

- WELL WITH WINDMILL OR SMALL POWER PUMP
- WELL WITH HAND PUMP, BUCKET OR BAILER
- ⊙ WELL WITH PUMPING PLANT-5 HORSEPOWER OR LARGER
- FLOWING WELL
- ⊕ WELL DRILLED TO TEST FOR OIL OR GAS
- TEST WELL DRILLED BY W.P.A. LABOR
- ◇ UNUSED WELL
- SPRING
- IMPROVED ROAD
- - - UNIMPROVED ROAD
- ⊗ MINE OR QUARRY
- RAILROAD