

STATE BOARD OF WATER ENGINEERS

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BEE COUNTY, TEXAS

Records of wells, test wells, drillers' logs,  
chemical analyses of water and map showing  
location of wells

Work Projects Administration Project 13459

Analyses made and report mimeographed by  
WORK PROJECTS ADMINISTRATION  
Project 10443

Sponsored by the State Board of Water Engineers with the United States Department of the Interior, Geological Survey, and the Bureau of Industrial Chemistry of The University of Texas cooperating.

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## BEE COUNTY, TEXAS

### Introduction

By

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This publication contains records of 170 wells, drillers' logs of 6 wells, logs of 25 test wells, and 140 chemical analyses of water obtained from water wells in Bee County, Texas.

A partial inventory of the water wells in Bee County was made by W. A. Lynch in 1934 under the supervision of the United States Department of the Interior, Geological Survey, through an allotment of funds by the Federal Administration of Public Works. In addition to the inventory, field tests were made for chlorides, hardness and bicarbonate. The data obtained at that time were compiled and released in the form of photostat copies in 1935, but only a few copies were made for distribution.

On October 2, 1939, the Work Projects Administration started the second inventory which was sponsored by the State Board of Water Engineers in cooperation with the Federal Geological Survey, with J. M. Frazier, Jr., as project superintendent. In addition to the inventory a number of test holes were put down by WPA labor and samples of water were collected from wells for more complete analyses. The field work was completed Jan. 1, 1940. This release contains the water-level measurements and field tests made in the former survey as well as the more complete chemical analyses made in Austin.

The analyses were made by chemists employed on Work Project Administration Project 10443 under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry of The University of Texas, and E. W. Lohr, Chemist of the Quality of Water Division of the Geological Survey; the Bureau of Industrial Chemistry furnished laboratory space and equipment. This release was typed by typists employed on that project.

The records serve as guide to land owners, well drillers, and others who need information regarding wells, the depth to ground water in different parts of the county, and the quantity and chemical character of water yielded by wells. They afford a basis for the more intensive investigation that is now being carried on by the State Board of Water Engineers in cooperation with the Geological Survey. The purpose of this investigation is to determine the distribution and extent of the available ground-water supplies and the safe yield of the underground reservoirs.

These projects are a part of a State-wide investigation of the underground water resources of Texas, and are sponsored by the Texas State Board of Water Engineers in cooperation with the United States Department of the Interior, Geological Survey. Acknowledgement of their cordial interest and cooperation is due the 10th field office of the Work Projects Administration and the Commissioners of Bee County.

## Records of wells in Bee County, Texas

(All wells are drilled unless otherwise noted in "Remarks" column.)

(See "Logs of W. P. A. test wells" for all records of test wells.)

No.	Distance from Pettus	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
1	14 $\frac{1}{2}$ miles west	F. J. Hoff	Jonker & Goodout	Hilltop	1910	375	5 $\frac{1}{4}$	2.5
2	15 miles west	W. Frank	G. Moses	Hillside	1919	275	4	1.2
3	12 $\frac{1}{2}$ miles west	Mrs. E. Cook	A. Cook	Flat	1926	135	4	2.0
4	12 miles west	Mrs. C. Hoagland	G. Moses	Hilltop	1914	119	4	--
5	12 $\frac{1}{4}$ miles west	W. A. Mueller	do.	Flat	1925	90	4	0.5
6	11 $\frac{1}{2}$ miles west	T. M. Plumer	B. M. Schindler	Hilltop	1931	275	4	1.3
7	12 miles west	E. H. Peterson	R. H. Pursley	do.	1925	172	4	1.2
8	11 miles west	H. W. Marcheck	--	Flat	1920	168	4	2.0
9	9 miles west	H. H. Voges	J. E. Fox	Hilltop	1912	276	4 $\frac{1}{4}$	1.0
10	9 $\frac{1}{2}$ miles west	Schroeder & Holland	--	Flat	1900	312	4	--
11	10 $\frac{1}{2}$ miles west	John Olson	G. Moses	Hilltop	1914	200	4 $\frac{1}{4}$	--
12	9 miles west	W. A. Robertson	W. A. Robertson	--	1935	60	4 $\frac{1}{4}$	--
13	9 $\frac{1}{2}$ miles west	do.	do.	Flat	1933	163	4	1.2
14	8 $\frac{1}{2}$ miles west	Theo. Plummer	--	Hillside	1930	110	4	0.2
20	9 miles northwest	O. Schmenemann	--	Flat	--	44	4 $\frac{1}{2}$	1.0
d/ 21	7 miles northwest	A. Peterson	--	Hillside	--	153	4 $\frac{1}{4}$	1.0
d/ 22	7 miles west	A. Miller	W. L. McCoy	Flat	1934	138	6	1.5
d/ 23	4 $\frac{1}{2}$ miles northwest	M. T. Fox	M. J. Copeland	Hillside	1902	120	4 $\frac{1}{2}$	--
d/ 24	4 miles northwest	R. & J. P. Dahl	M. T. Fox	Gentle slope	--	176	4 $\frac{1}{4}$	--
25	6 miles west	W. G. Rutledge	-- Davis	Flat	1900	60	6	2.0
26	5 $\frac{1}{2}$ miles west	H. Pullin	--	do.	--	115	--	1.0
27	4 $\frac{1}{4}$ miles west	C. S. Page	J. H. Brooks	do.	1930	170	4 $\frac{1}{4}$	1.0
28	2 $\frac{1}{2}$ miles northwest	J. E. Copeland	--	do.	1904	105	4 $\frac{1}{2}$	1.5

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

Records obtained by J. M. Frazier, Jr., Project Superintendent  
(Chemical analyses of water from these wells are in the table of analyses.)

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
1	233.9	Nov. 8, 1939	C,W	D,S	Reported water tastes salty. Well was originally 275 feet deep and was deepened in search of better water.
2	127.9	do.	C,W	D,S	Water level 127.8 feet, May 8, 1934. Reported strong supply of water. Water level 172.4 feet, May 23, 1934.
3	118.1	Nov. 7, 1939	C,W	D,S	Water level 116.9 feet, April 18, 1934. Reported strong supply of salt water. Iron casing to bottom. hard water.
4	105.3	Nov. 8, 1939	C,W	D,S	Water level 106.6 feet, May 14, 1934. Reported strong supply of soft water.
5	83.6	do.	C,W	D,S	Water level 83.2 feet, May 14, 1934. Reported strong supply of hard water.
6	74.8	do.	C,W	D,S	First water at 145 feet; second water at 205 feet. Water level 69.1 feet May 23, 1939.
7	102.9	do.	C,W	D,S	Water has taste of sulphur. First water at 70 feet reported salty; second water at 125 feet, bitter.
8	157.3	do.	C,W	D,S	Water level 156.8 feet, May 14, 1934. Reported strong supply of water. Water level 102.5 feet, May 23, 1934.
9	232.2	do.	C,W	D,S	Well on high ground. Reported weak supply of soft water. Tastes salty. soft water.
10	260	e/	C,W	D,S	Water level 247.1 feet. May 23, 1934. Well on high ground. Reported weak supply of soft water.
11	160	e/	C,W	D,S	Reported weak supply of soft water.
12	50.6	Nov. 14, 1939	C,G	D,S	Water level 45.8 feet, May 9, 1934. Yield reported very small. Sandstone reported from 50 to 54 feet
13	150.0	do.	C,W	S	Water level 150.0 feet, May 23, 1939. Sand and blue clay reported giving a weak supply of soft water.
14	69.2	Dec. 20, 1939	C,W	D,S	Reported from 150 to 165 feet giving salty water. strong supply of hard water.
20	35.0	Nov. 22, 1939	C,W	D,S	Water level 35.0 feet, April 18, 1934. Reported strong supply of soft water.
21	134.9	do.	C,W	D,S	Water level 136.5 feet, May 14, 1934. Reported strong supply of soft water.
22	104.8	do.	N	None	Unused.
23	59.7	do.	C,W	D,S	Water level 56.3 feet, April 19, 1934. Reported strong supply of hard water.
24	113.4	do.	C,W	S	Water level 110.4 feet, May 7, 1934. Reported strong supply of soft water.
25	45	Nov. 14, 1939	C,W	S	Water level 41.9 feet, May 23, 1934. Reported strong supply of hard water.
26	102.1	do.	C,W	D,S	Water level 99.1 feet, May 9, 1939. Reported strong supply of hard water.
27	71.9	do.	C,W	D,S	Water sand is very thin. Water level 65.2 feet, June 4, 1934. Reported weak supply of hard water.
28	93.1	do.	C,W,G	D,S	Well deepened 200 feet without finding water.

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

d/ No water sample collected for analysis.

e/ Water level reported.

## Records of wells in Bee County--Continued

No.	Distance from Pettus	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
29	1 mile southwest	G. A. Ray	J. E. Fox	Hilltop	1910	130	5- $\frac{3}{16}$	0.5
30	2 $\frac{1}{2}$ miles north	do.	--	Flat	--	76	5- $\frac{3}{16}$	1.0
31	3 $\frac{1}{2}$ miles north	Houston Oil Co.	R. H. Pursley	do.	1934	560	4 $\frac{5}{8}$	--
32	$\frac{1}{2}$ mile north	G. A. Ray	--	do.	--	112	4 $\frac{1}{4}$	0.2
33	In Pettus	C. P. & L. Co.	Layne-Texas	Hilltop	1930	238	8 $\frac{1}{4}$	--
34	2 miles southeast	Mrs. W. E. McKinney	I. N. Powell	Flat	1914	190	4 $\frac{1}{4}$	1.2
<u>35</u>	1 $\frac{1}{2}$ miles west	M. A. Newman	Houston Oil Co.	Hilltop	1931	3,685	--	--
<u>36</u>	1 $\frac{1}{2}$ miles southwest	E. Gremmel	Texas Oil Co.	Flat	1932	3,900	--	--
<u>37</u>	4 $\frac{1}{2}$ miles southwest	J. E. Roth	--	do.	1934	3,970	--	--
38	7 $\frac{1}{4}$ miles southwest	C. H. Cook	Bert Archer	Hilltop	1935	69	8	0.3
39	8 miles southwest	J. Looney Est.	--	Flat	1880	20	36	2.0
<u>40</u>	12 $\frac{1}{2}$ miles southwest	O. O. Edwards	--	do.	--	128	4	--
41	11 miles southwest	R. R. Dubose	R. R. Dubose	Hilltop	1917	101	6	0.2
42	12 $\frac{1}{2}$ miles southwest	J. R. North	--	Flat	1900	93	6	0.2
43	8 miles southwest	V. F. Marshall	A. Pullin	Hillside	1917	41	4 $\frac{1}{2}$	0.8
44	9 $\frac{1}{4}$ miles southwest	H. E. Yoward	E. Schbook	Hilltop	1914	274	4	1.5
45	8 $\frac{1}{2}$ miles southwest	F. S. New	T. C. Randolph	do.	1926	147	4	--
46	6 miles southwest	R. C. Harris	--	Flat	--	136	3 $\frac{1}{4}$	0.2
50	5 miles southwest	Felipe Perez	--	Hilltop	--	127	6 $\frac{1}{2}$	0.2
51	3 $\frac{1}{4}$ miles south	C. B. Steltzfos	C. B. Steltzfos	Flat	1919	104	4 $\frac{1}{4}$	0.5
<u>52</u>	3 $\frac{1}{2}$ miles south	Dirk Bros.	W. L. McCoy	do.	1930	348	--	--
53	4 $\frac{1}{2}$ miles southeast	C. B. Steltzfos Est.	--	do.	1919	75	4 $\frac{1}{2}$	1.0
<u>54</u>	4 $\frac{1}{4}$ miles southeast	do.	R. H. Pursley	do.	--	600	4 $\frac{1}{4}$	1.5
55	8 miles south	G. T. Roberts	--	do.	--	124	6	1.0
<u>56</u>	In Normana	D. Stulken	--	do.	--	93	4 $\frac{1}{2}$	1.0
57	do.	C. A. Butts	--	do.	1900	60	4	1.0

## Records obtained by J. M. Frazier, Jr., Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measur- ing point (ft.)	Date of measur- ment			
29	109.7	Nov. 14, 1939	C,W,E	D,S	Water level 107.5 feet, April 19, 1934. Reported strong supply of hard water.
30	62.1	do.	C,W	S	Water level 60.3 feet, April 19, 1934. Reported strong supply of soft water.
31	--	--	C,W	D,S	Temperature 81° F. Reported strong supply of hard water.
32	97.6	Nov. 14, 1939	C,W	D,S	Reported strong supply of hard water.
33	--	--	C,E	P	Do.
34	126.3	Dec. 5, 1939	C,W,G, 1½	D,S	Water level 124.2 feet, May 30, 1934. First water at 124 feet with small yield.
35	--	--	C,G, 25	--	Oil test. See log.
36	--	--	C,G, 25	--	Do.
37	--	--	C,G	--	Do.
38	64.3	Dec. 20, 1939	C,W	D,S	Reported weak supply of soft water.
39	18.0	Nov. 8, 1939	C,H	D,S	Do.
40	--	--	C,H	None	Water level 102.5 feet. May 10, 1934. Casing plugged.
41	89.3	Nov. 6, 1939	C,W	D,S	Water level 86.4 feet, May 10, 1934. Reported strong supply of soft water.
42	84.7	do.	C,F	D,S	Water level 82.3 feet, June 15, 1934. Reported strong supply of soft water.
43	39.1	Nov. 8, 1939	C,W	D,S	Water level 37.5 feet, June 4, 1934. Reported strong supply of hard water.
44	117.7	Nov. 6, 1939	C,W,G, 1½	D,S	First water at 60 feet. Well is finished in third water stratum. Reported strong supply of hard water.
45	--	--	C,W,G, 1½	D,S	Water level 105.1 feet, May 11, 1934. Reported strong supply of hard water.
46	85.3	Nov. 14, 1939	C,W	D,S	Water level 86.1 feet, June 4, 1934. Reported weak supply of hard water.
50	114.5	do.	C,W	D,S	Water level 110.3 feet May 11, 1934. Temperature 74° F. Reported weak supply of soft water.
51	70.0	Nov. 26, 1939	C,W	D,S	Water level 66.2 feet, May 15, 1934. Reported strong supply of hard water.
52	--	--	--	--	Water level 148.6 feet, May 16, 1934. Casing pulled and well plugged.
53	51.5	Nov. 26, 1939	C,W	D,S	Water level 53.0 feet, May 15, 1934. Reported strong supply of hard water.
54	101.1	do.	C,W	D,S	Water level 98.4 feet, May 15, 1934. Reported strong supply of soft water.
55	76.3	do.	C,W	D,S	Water level 73.8 feet, June 18, 1934. Reported strong supply of hard water.
56	48.3	do.	C,E	D,S	Water level 44.2 feet, June 16, 1934. Reported strong supply of soft water.
57	46.6	do.	C,H	D,S	Water level 44.2 feet, June 16, 1934. Reported weak supply of soft water.

## Records of wells in Bee County--Continued

No.	Distance from Pettus	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
<u>1/</u> 58	8 <sup>1</sup> / <sub>2</sub> miles south	Hicks & Hall	R. H. Pursley	--	1933	300	4 <sup>1</sup> / <sub>4</sub>	--
<u>1/</u> 59	9 <sup>1</sup> / <sub>2</sub> miles south	D. L. Demory	T. P. Prundrett	Flat	Old	108	4	0.5
60	4 <sup>1</sup> / <sub>2</sub> miles south	Carlos Carrizoles	--	Hilltop	--	120	4	--
<u>d/</u> 61	8 <sup>1</sup> / <sub>2</sub> miles south	J. R. Scott	--	Flat	--	60	4 <sup>1</sup> / <sub>2</sub>	1.0
<u>1/</u> 62	7 <sup>1</sup> / <sub>2</sub> miles southeast	School District No. 33	-- Brooks	do.	1925	100	4 <sup>1</sup> / <sub>4</sub>	0.5
<u>1/</u> 63	5 miles south	-- Striebeck	Salt Dome Oil Co.	Hilltop	1937	3,100	--	--
64	6 <sup>1</sup> / <sub>2</sub> miles southwest	M. Beck	--	do.	--	70	4	0.0
<u>d/</u> 65	do.	P. L. Campbell	N. V. Duncan Oil Co.	Flat	1934	3,900	--	--
66	do.	do.	--	do.	1884	120	4	1.0
67	7 <sup>1</sup> / <sub>2</sub> miles southwest	N. Arrizolla	--	do.	--	65	60	1.0
68	8 <sup>1</sup> / <sub>2</sub> miles southwest	C. A. Best	--	Hillside	1890	100	--	1.0
69	11 miles southwest	Community Church	--	Flat	--	60	5	2.0
No.	Distance from Beeville	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
70	11 <sup>1</sup> / <sub>4</sub> miles east	Commercial National Bank	--	Flat	--	83	4	0.2
71	12 miles east	Mrs. J. W. Carson	--	do.	--	153	4 <sup>1</sup> / <sub>2</sub>	2.4
<u>d/</u> 72	10 <sup>1</sup> / <sub>2</sub> miles east	A. Theis	W. L. McCoy	do.	1934	209	4 <sup>1</sup> / <sub>2</sub>	--
73	11 miles northwest	Patrick Martin	--	do.	--	67	36	1.2
74	8 <sup>1</sup> / <sub>2</sub> miles northwest	P. H. & M. P. Martin	J. New	do.	1898	83	4	0.5
75	4 <sup>1</sup> / <sub>2</sub> miles northwest	T. J. Foreman Est.	--	do.	--	73	4	0.5
76	7 miles west	Sydney Smith	--	do.	1892	92	5 <sup>1</sup> / <sub>2</sub>	1.5
77	5 <sup>1</sup> / <sub>4</sub> miles west	J. Harris	--	do.	--	120	4 <sup>1</sup> / <sub>2</sub>	1.5
78	7 miles west	Whitehead Est.	--	do.	--	49	4	3.0
79	6 <sup>1</sup> / <sub>4</sub> miles west	Dave Turner	--	do.	--	89	4	0.0
80	5 miles northwest	W. Nation	--	do.	1928	80	4	0.5

Records obtained by J. M. Frazier, Jr., Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
58	100	e/	--	--	Water level 95.3 feet, June 18, 1934.
59	92.5	Dec. 5, 1939	C,W	D,S	Water level 89.2 feet, June 18, 1934. Temperature 75° F. Reported strong supply of hard water.
60	62.5	Dec. 12, 1939	C,W	D,S	Reported strong supply of hard water.
61	50.1	Nov. 26, 1939	C,W	D,S	Water level 45.7 feet, June 19, 1934. Reported strong supply of soft water.
62	50.7	do.	C,W	D	Water level 48.4 feet, May 16, 1934. Reported strong supply of hard water.
63	--	--	J,G	--	Oil test. See log.
64	63.0	Dec. 12, 1939	C,W	D,S	Reported strong supply of hard water.
65	--	--	J,G, 46	--	Oil test. See log.
66	91.9	Dec. 12, 1939	C,W	D,S	Reported strong supply of hard water.
67	46.7	do.	C,W	D,S	Do.
68	78.5	Dec. 20, 1939	C,W	D,S	Do.
69	43.7	do.	C,H	D	Reported weak supply of hard water.
No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
70	63.7	Nov. 15, 1939	C,W	D,S	Water level 65.3 feet, May 26, 1934. Reported strong supply of hard water.
71	122.2	do.	C,W	D,S	Water level 120.1 feet, May 19, 1934. Reported strong supply of soft water.
72	--	--	--	--	Casing pulled and well plugged.
73	63.8	Nov. 6, 1939	C,W	S	Water level 56.4 feet, June 13, 1934. Reported strong supply of soft water.
74	46.7	do.	C,G	D,S	Water level 41.7 feet, June 13, 1934. Reported strong supply of soft water.
75	53.3	do.	C,W	D,S	Water level 50.9 feet, June 15, 1934. Reported strong supply of soft water. Used by service station.
76	67.1	Nov. 15, 1939	C,W,G; 1/2	D,S	Water level 61.3 feet, June 13, 1934. Well deepened from 85 to 93 feet 1903. Reported strong supply of
77	89.8	do.	C,W	S	Water level 89.3 feet, May 19, 1934. Reported strong supply of soft water.
78	29.3	do.	C,W	D,S	Water level 27.9 feet, June 13, 1934. Temperature 75° F. Reported strong supply of soft water.
79	89.5	do.	C,W	D,S	Water level 77.1 feet, May 22, 1934. Reported strong supply of soft water.
80	68.6	Dec. 20,	C,W	--	Reported soft water.



## Records of wells in Bee County--Continued

No.	Distance from Beeville	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
81	6 miles northwest	J. A. Black	H. Powell	Flat	1928	120	5	1.0
82	7 $\frac{1}{2}$ miles northwest	W. Brice	--	do.	--	98	4	0.4
d/ 83	6 $\frac{1}{2}$ miles northwest	Hicks & Hall	Dougherty Oil Co.	do.	1937	3,630	10	--
94	9 $\frac{1}{2}$ miles north	H. W. Murphey	--	do.	--	70	56	--
90	8 $\frac{1}{2}$ miles west	Sam Brown	--	Hillside	1905	134	4	0.6
91	10 miles west	Emil Kinkler	--	Flat	1906	224	4	1.0
92	9 miles west	T. J. Hillard	Walker & Alsup	do.	1929	119	3 $\frac{1}{2}$	1.0
93	7 $\frac{1}{2}$ miles west	Ernest Kinkler	--	do.	--	120	4	0.3
94	3 $\frac{3}{4}$ miles west	F. H. Boothe	-- Lawson	do.	1929	159	4	0.5
95	5 $\frac{3}{4}$ miles southwest	E. Mueller	--	Hilltop	1914	96	4	1.0
96	4 $\frac{1}{2}$ miles south	C. H. Sugarek	--	Flat	--	72	4	1.0
97	8 $\frac{1}{2}$ miles southwest	A. W. Kinkler	R. W. Lawson	do.	1900	103	4	0.6
98	10 miles southwest	J. P. Impson	J. P. Impson	--	1888	110	6	--
99	7 miles southwest	I. J. Miller	I. N. Powell	Flat	1918	98	6	1.5
100	7 $\frac{1}{2}$ miles south	J. T. Ernest	--	do.	--	85	6	--
101	3 $\frac{1}{2}$ miles south	R. J. Besley	-- Alsup	do.	1939	92	4	0.9
102	3 miles north	F. T. Martin	J. Kelley	do.	1890	97	4	1.5
110	5 $\frac{1}{2}$ miles north	Mrs. J. W. Greer	--	do.	--	160	4	1.0
115	4 $\frac{1}{2}$ miles northeast	Texas Exp. Station	I. N. Powell	do.	--	148	4 $\frac{1}{4}$	--
116	3 $\frac{1}{4}$ miles west	R. E. Burditt	-- Brooks	Hilltop	1927	115	4 $\frac{1}{2}$	1.4
117	2 $\frac{1}{2}$ miles west	W. P. Richardson	do.	Flat	--	140	4	0.5
118	1 $\frac{1}{2}$ miles west	J. W. Bates	Tom Powell	do.	1902	187	5 $\frac{3}{4}$	1.0
d/119	1 $\frac{1}{2}$ miles west	do.	--	do.	--	90	4 $\frac{1}{2}$	--
1/120	In Beeville	C. P. & L. Co.	Homer Powell	do.	1903	278	5- 5/8	--
121	do.	do.	Layne-Texas	do.	1931	1,539	15 $\frac{1}{2}$	--

Records obtained by J. M. Frazier, Jr., Project Superintendent

No.	Water level		Pump and power	Use of water	Remarks
	Depth below measuring point (ft.)	Date of measurement			
81	100.0	Dec. 20, 1939	C,W	--	Reported strong supply of hard water.
82	72.5	Nov. 6, 1939	C,W	D,S	Reported strong supply of soft water.
83	--	--	--	--	Oil test. See log.
84	--	--	C,W, G, $\frac{1}{2}$	D,S,I	Reported strong supply of hard water. Quality of water reported changed by drilling of nearby oil well.
90	117.0	Nov. 1, 1939	C,W	D,S	Water level 114.7 feet, June 14, 1934. Reported strong supply of soft water.
91	105.8	do.	C,W	D,S	Water level 106.5 feet, temperature 76° F, May 24, 1934. Reported strong supply of hard water. Slight
92	104.2	do.	C,W	D,S	Water level 103.3 feet, temperature 76° F, May 21, 1934. Reported strong supply of
93	84.4	do.	C,W	D,S	Water level 67.3 feet, June 14, 1934. Reported strong supply of
94	109.9	do.	C,W	D,S	Water level 99.3 feet, temperature 76° F, May 21, 1934. Reported weak supply of hard water.
95	80.8	do.	C,W	D,S	Water level 79.7 feet, temperature 75° F, May 21, 1934. Reported strong supply of soft water.
96	59.9	Nov. 2, 1939	C,W, G, $\frac{1}{2}$	D,S	Water level 60.6 feet, temperature 74° F, May 22, 1934. Reported weak supply of hard water.
97	87.9	Nov. 1, 1939	C,W, G, $\frac{1}{2}$	D,S	Water level 88.0 feet, temperature 74° F, June 14, 1934. Reported strong supply of hard water. Iron
98	100	e/	C,W	D,S	Reported strong supply of hard water. casing to bottom.
99	92.7	Nov. 1, 1939	C,W	D,S	Water level 79.8 feet, May 24, 1934. Reported strong supply of hard water.
100	59.8	Nov. 2, 1939	C,W	D,S	Water level 56.4 feet, temperature 74° F, June 5, 1934. Reported strong supply of hard water.
101	57.1	Dec. 11, 1939	C,W	D,S	Reported strong supply of hard water.
102	71.6	do.	C,W	D,S	Water level 69.0 feet, June 19, 1934. Reported strong supply of hard water.
110	112.5	Dec. 5, 1939	C,W	D,S	Water level 110.5 feet, May 23, 1934. Reported strong supply of hard water.
115	73.9	Nov. 28, 1939	C,W	D,S	Water level 65.9 feet, June 16 1934. Reported strong supply of soft water.
116	71.2	Nov. 15, 1939	C,H	D,S	Water level 63.3 feet, May 18, 1934. Reported weak supply of soft water.
117	96.9	do.	C,W	D,S	Water level 95.2 feet, May 21, 1934. Old well 99 feet deep, caved in and new well was drilled to a
118	34.8	do.	C,W	D,S	Water level 38.4 feet, June 30, 1934. Water level reported as about 35 feet below lower water sand.
119	--	--	--	--	Water level 27.3 feet, June 30, 1934. ground level in 1902.
120	40	e/	C,E	P,Ind	Water level 38.8 feet, June 20, 1934. Water level reported about 40 feet in 1902. Used only as a stand-
121	63	e/	T,E, 40	P	Water level 61.1 feet, June 26, 1934. Water level reported about 56 feet in 1931. Supplies city of Beeville. Temperature 95° F. 1,473 feet of 15 $\frac{1}{2}$ -inch casing.

Records of wells in Bee County--Continued

No.	Distance from Beeville	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
122	In Beeville	J. R. Scott	--	Flat	--	70	4	1.2
123	1 mile east	T. G. Bailey	J. W. Toomey	do.	1904	66	6	1.0
124	2½ miles northeast	J. T. Taylor	--	do.	--	73	4¼	0.5
126	4 miles south	V. L. Kelley	Walker & Alsup	do.	1933	80	6	1.2
127	5¼ miles north	Oscar Leming	Oscar Leming	do.	1932	47	4	1.0
128	4½ miles east	F. Hartzendorf	--	do.	1902	70	4	0
129	6¼ miles east	W. Juenger	-- Gill	do.	1895	81	4	1.0
130	6⅝ miles southeast	J. C. Wood Est.	--	do.	--	95	6	3.0
1/131	6¾ miles southeast	do.	R. H. Pursley	do.	1934	386	4¼	2.0
132	8½ miles east	W. Ellis	--	do.	--	100	3	1.0
133	7¼ miles east	do.	--	do.	--	90	4	1.0
134	6½ miles east	A. Waelder	-- Alsup	do.	1925	67	3	0.5
135	4 miles southeast	R. A. Baber	--	do.	1904	60	4	1.0
136	3½ miles southeast	E. A. Rappe	--	do.	--	70	4½	0.0
137	2¼ miles southeast	J. Ballard	--	Hilltop	1936	100	4	1.0
138	1½ miles southeast	A. Kubala	-- Walker	Flat	1937	60	4	1.0
139	1¼ miles southeast	J. C. Contrara	F. Aradono	do.	1934	50	3	0.5
140	7½ miles northeast	Pryor Lucas	--	do.	--	56	5- 3/16	2.0
141	9 miles northeast	W. E. Handy	--	Hilltop	--	156	5- 3/16	0.3
142	12½ miles northeast	Mrs. A. Boemer	-- Sanders	Flat	1924	74	4¼	1.0
143	8 miles northeast	Heard & Heard	--	do.	--	127	6	0.2
3/144	9¾ miles east	J. M. O'Brian	--	do.	1900	125	5⅞	--
145	11 miles east	M. Murphy	--	do.	--	115	6	0.5
146	3¼ miles east	F. Hartzendorf	--	do.	1902	70	4	0

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

Records obtained by J. M. Frazier, Jr., Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
122	28.9	Dec. 11, 1939	C,W	D	Reported strong supply of hard water. Iron casing to bottom.
123	32.9	do.	C,H	D,S	Water level 29.1 feet, June 30, 1934. Water level reported about 30 feet in 1904. Reported strong supply
124	40.2	Nov. 28, 1939	C,W	D,S	Water level 31.0 feet, June 19, 1934. of soft water. Reported strong supply of soft water.
126	56.2	Nov. 2, 1939	C,W	D,S	Water level 50.3 feet, temperature 75° F, May 25, 1934. Reported strong supply of soft water.
127	36.4	do.	C,G, 1 1/2	S	Water level 33.8 feet, May 25, 1934. Reported weak supply of hard water.
128	56.0	Oct. 13, 1939	C,W	D,S	Water level 33.8 feet, temperature 75° F, June 15, 1934. First water at 45 feet. Reported strong supply
129	62.3	do.	C,W	D,S	Water level of soft water. Iron casing to bottom. 58.4 feet, temperature 75° F, June 6, 1934. Report-
130	75.0	Nov. 3, 1939	C,W	D,S	Water level 56.6 ed weak supply of hard water. feet, June 15, 1934. Reported strong supply of hard
131	43.0	do.	N	None	Water level 42.9 feet, water. Iron casing to bottom. temperature 78° F, Was used by Heep Oil Company for
132	60.7	Oct. 13, 1939	C,W	D,S	Reported weak supply of hard drilling oil well. water. Cast iron casing to bottom.
133	64.1	do.	C,W	D,S	Do.
134	53.8	Nov. 3, 1939	C,W	D,S	Reported strong supply of soft water. Nearby oil test ruined well for drinking water.
135	33.1	Oct. 13, 1939	C,W	D,S	Reported strong supply of soft water. Iron casing to bottom.
136	39.2	Dec. 1, 1939	C,W	D,S	Reported strong supply of soft water.
137	60.1	Oct. 13, 1939	C,W	D,S	Reported strong supply of hard water. Iron casing to bottom.
138	57.0	do.	C,W	D,S	Reported weak supply of soft water. Iron casing to bottom.
139	37.6	Oct. 19, 1939	C,H	D,S	Reported weak supply of hard water.
140	43.1	Nov. 28, 1939	C,W	D,S	Water level 34 feet, June 25, 1934. Reported strong supply of hard water.
141	73.3	do.	C,W	D,S	Water level 57.8 feet, June 9, 1934. Reported strong supply of soft water.
142	59.6	do.	C,W	D,S	Water level 48.8 feet, June 25, 1934. Reported strong supply of soft water.
143	70.6	do.	C,W	D,S	Water level 60.1 feet, temperature 74° F, June 15, 1934. Reported strong supply of hard water.
144	52	e/	C,W,G	S	Water level 42.7 feet, June 8, 1934. Reported strong supply of hard water.
145	60.9	Nov. 3, 1939	C,W	D,S	Water level 51.9 feet, temperature 76° F, June 25, 1934. Reported strong supply of soft water.
146	56.0	Oct. 13, 1939	C,W	D,S	Reported weak supply of hard water. Iron casing to bottom.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells in Bee County--Continued

No.	Distance from Skidmore	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
151	7 $\frac{1}{2}$ miles west	J. Wallek	E. Straw	Flat	1913	110	4	1.5
152	8 miles west	E. C. Steinmicht	--	do.	--	130	4	1.0
153	5 $\frac{1}{2}$ miles west	Frank Trlica	--	do.	1910	85	4	0.5
154	7 $\frac{1}{8}$ miles southwest	Charles Menger	E. Bruns	do.	1938	138	--	1.5
155	5 $\frac{3}{4}$ miles southwest	Herman Jostes	E. Strogh	do.	1910	130	4	1.0
156	4 miles west	J. Kolaba, Sr.	-- Kash	do.	1909	150	4	--
157	4 $\frac{1}{2}$ miles southwest	A. Stautzenbarger	E. Bruns	do.	1932	105	4 $\frac{1}{4}$	1.5
158	7 $\frac{1}{4}$ miles southwest	Steimeyer & Co.	G. Darnbuch	do.	1909	120	5	0.5
168	4 $\frac{1}{2}$ miles north	R. L. Jones	-- Brooks	--	1939	50	4 $\frac{3}{4}$	1.0
169	3 miles north	D. Perrez	-- Powell	Flat	1915	50	--	2.5
171	4 $\frac{1}{4}$ miles northeast	W. J. Homan	--	do.	--	64	4	--
172	In Skidmore	M. L. Rendleman	R. Burns	do.	1932	97	4	2.0
173	2 $\frac{1}{2}$ miles southwest	H. C. Buehring	--	do.	1900	95	4	1.0
174	3 $\frac{1}{2}$ miles south	S. A. Duge	E. Bruns	do.	1926	108	4	1.0
175	2 $\frac{1}{2}$ miles southeast	C. Sevier	--	do.	--	85	8	0.5
176	3 miles east	Mrs. C. Driscoll	-- Dickey	do.	--	93	4 $\frac{1}{4}$	0.5
d/177	do.	do.	-- Koch	do.	--	79	3 $\frac{1}{4}$	0.5
178	In Skidmore	T. & N. O. R.R.	G. Nesbit	do.	1927	745	8	--
179	do.	do.	--	do.	--	125	8	--
d/180	4 $\frac{1}{4}$ miles south	E. M. Jones	K. H. Pursley	--	1934	267	4 $\frac{1}{4}$	--
181	8 $\frac{1}{4}$ mile southeast	Union Life Ins.	--	do.	--	90	4	0.5
190	4 $\frac{3}{4}$ miles southeast	J. L. Flake	--	do.	--	64	4	0.0
191	6 $\frac{1}{2}$ miles southeast	F. J. Gregoresyk	--	do.	--	48	48	3.0
192	7 miles southeast	Geo. F. Gillian	E. Bruns	do.	1927	64	4	1.0

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

Records obtained by J. M. Frazier, Jr., Project Superintendent

No.	Water level		Pump and power	Use of water	Remarks
	Depth below measuring point (ft.)	Date of measurement			
151	84.4	Nov. 2, 1939	C,W	D,S	Water level 83.3 feet, June 14, 1934. Reported strong supply of soft water.
152	97.7	do.	C,W	D,S	Water level 96.0 feet, June 14, 1934. Reported strong supply of soft water.
153	67.1	do.	C,W	D,S	Water level 66.6 feet, June 14, 1934. Reported strong supply of soft water.
154	116.8	do.	C,W	D,S	Water level 115.8 feet, June 14, 1934. Reported that salt water leaks into well.
155	109.4	do.	C,W	D,S	Water level 108.4 feet, June 14, 1934. Reported strong supply of soft water.
156	--	--	C,W	D,S	Reported strong supply of soft water.
157	93.7	Nov. 2, 1939	C,W	D,S	Water level 92.3 feet, temperature 76° F, June 14, 1934. Reported strong supply of hard water.
158	107.2	Oct. 27, 1939	C,P, G, 1½	D,S,I	Water level 99.9 feet, May 25, 1939. Well supplies three houses and two garages. Reported strong supply
166	33.4	Dec. 11, 1939	C,W	D,S	Reported weak supply of hard water. of hard water.
169	47.0	do.	C,W	D,S	Reported strong supply of hard water.
171	49.5	e/	C,W, G, 1½	S	Water level 41.4 feet, May 28, 1934. Reported strong supply of soft water.
172	79.3	Oct. 20, 1939	C,W	D,S	Water level 74.0 feet, May 29, 1934. Reported strong supply of hard water. Iron casing to bottom.
173	88.0	Nov. 2, 1939	C,W	D,S	Water level 87.0 feet, June 14, 1934. Reported strong supply of soft water.
174	72.6	Nov. 1, 1939	C,W	D,S	Water level 72.5 feet, June 14, 1934. Reported strong supply of soft water.
175	69.3	Oct. 23, 1939	C,W	S	Water level 66.2 feet, temperature 76° F, May 28, 1934. Reported strong supply of hard water.
176	58.1	Nov. 17, 1939	C,W	S	Water level 53.4 feet, May 28, 1934. Reported strong supply of hard water.
177	66.2	do.	C,W	S	Water level 55.4 feet, temperature 76° F, May 28, 1934. Reported strong supply of hard water.
178	63	e/	C,E, 25	RR	Reported strong supply of soft water. Tastes slightly of sulphur. Iron casing to bottom.
179	65	e/	C,G	RR	Reported strong supply of hard water.
180	--	--	--	None	
181	76.3	Dec. 11, 1939	C,W	D,S	Reported strong supply of hard water. Tastes slightly salty.
190	45.1	Oct. 23, 1939	C,W	D,S	Water level 45.0 feet, May 28, 1934. Reported strong supply of hard water.
191	38.5	Nov. 17, 1939	C,W	D,S	Water level 36.6 feet, June 16, 1934. Dug well. Reported strong supply of soft water.
192	38.5	Oct. 23, 1939	C,G, 1½	D,S	Water level 37.3 feet, May 28, 1934. Reported strong supply of soft water.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Records of wells in Bee County--Continued

No.	Distance from Skidmore	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
193	6½ miles southeast	K. Roach	--	Flat	--	135	4	0.0
194	9 miles southeast	Mrs. A. Hennig	--	do.	--	96	4	1.0
195	9½ miles southeast	G. E. Gerdes	--	do.	1913	228	4	1.0
196	8¾ miles southeast	Mrs. J. W. Linney	--	do.	1909	90	4	1.5
197	10 miles southeast	Murphey Est.	--	do.	1890	60	4	2.0
200	10¼ miles northeast	R. A. Heard	R. H. Pursley	do.	1930	600	4½	2.5
d/201	5¾ miles northeast	G. J. Groos	--	do.	--	106	4	--
d/202	7 miles northeast	do.	--	do.	--	88	4	--
d/203	12¾ miles east	Mrs. D. Chestnut	--	do.	--	110	4	--
d/204	13¾ miles east	do.	--	do.	--	79	4	--
d/205	11¼ miles east	L. D. Thompson	--	do.	--	96	4	1.0
d/206	11¾ miles east	do.	--	do.	--	72	4	1.0
207	11 miles east	do.	--	do.	--	1,200+	4	--
208	9½ miles east	do.	--	do.	--	65	4	0.0

No.	Distance from Beeville	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
220	15½ miles east	J. M. O'Brian	--	Flat	--	928	8	5.0
d/221	16 miles east	Dan Fox	-- Powell	do.	--	108	6	--
222	16¾ miles east	do.	do.	do.	1928	160	4½	2.0
224	17 miles east	M. Fox Est.	--	do.	--	52	6	2.0
225	17½ miles east	do.	F. Cabillo	do.	1932	104	4	1.0

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; W, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

Records obtained by J. M. Frazier, Jr., Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
193	44.1	Nov. 17, 1939	C,W	S	Water level 43.6 feet, June 12, 1934. Reported weak supply of hard water.
194	47.5	Oct. 23, 1939	C,W	--	Water level 47.8 feet, June 28, 1934. Reported strong supply of hard water.
195	52.1	do.	C,W	D,S	Water level 51.2 feet, June 16, 1934. Reported weak supply of hard water.
196	36.4	Dec. 11, 1939	C,W	D,S	Reported strong supply of soft water.
197	39.7	do.	C,W	D,S	Do.
200	85.7	Nov. 3, 1939	C,W	S	Water level reported about 30 feet in 1930. Temperature 78° F. Temporarily used for drilling. Now
201	49.5	e/	C,W, G, 1 1/2	S	Water level 48.7 feet, temperature 76° F, June 25, 1934. Known as "Hog Pasture Mill".
202	36	e/	C,W	S	Water level 34.5 feet, June 25, 1934. Known as the "Juan Pasture Mill". Reported strong supply of hard water.
203	95.2	Nov. 17, 1939	C,W	S	Water level 93.8 feet, June 12, 1934. Known as the "Will Georges Mill". Reported strong supply of hard
204	45	e/	C,W	S	Water level 41.0 feet, June 12, 1934. At Old Wood Ranch. Reported strong supply of soft water.
205	49.8	Nov. 17, 1939	C,W	S	Water level 63.8 feet, June 12, 1934. Known as Well No. 6. Reported strong supply of hard water.
206	45.2	do.	C,W	S	Water level 43.0 feet, June 12, 1934. Known as Well No. 17. Reported strong supply of hard water.
207	Flows	--	--	S	Flows into trough through float valve. Reported flow, 6 gallons a minute of soft water.
208	43.9	Nov. 17, 1939	C,W	--	Water level 44.6 feet, June 12, 1934. At Thompson Ranch House. Reported strong supply of hard water.

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
220	91	Oct. 12, 1939	C,G, 28	D,S	Well flowed in 1934. Reported strong supply of soft water. 900 feet of iron casing 28 feet at bottom per-
221	51.3	--	N	None	Water level 39.3 feet, June 15, 1934. First water at 25 feet. Second water at 40 feet.
222	63.8	Nov. 3, 1939	C,W	D,S	Water level 57.3 feet, June 15, 1934. Well originally 80 feet deep, very weak supply. Deepened but still weak. Reported weak supply of soft water.
224	47.4	do.	C,W, G, 1 1/2	D,S	Water level 33.2 feet, June 8, 1934. Reported weak supply of hard water.
225	40.0	Oct. 17, 1939	C,W	S	Water level 36.8 feet, temperature 77° F, June 15, 1934. Reported strong supply of soft water.

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

d/ No water sample collected for analysis.

e/ Water level reported.



Records of wells in Bee County--Continued

No.	Distance from Beeville	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
226	20 $\frac{1}{4}$ miles east	M. McGill Est.	B. E. Beady	Flat	1892	64	4	0.5
227	21 $\frac{1}{4}$ miles east	do.	--	do.	1900	100	4	0.0
228	19 $\frac{3}{4}$ miles east	C. A. Barber	J. A. May	do.	1904	56	4	1.0
229	do.	V. G. Thomas	--	do.	1925	644	4	1.2
230	20 $\frac{1}{4}$ miles east	W. W. Barber Est.	-- Lockhart	do.	1934	58	4	2.0
231	19 $\frac{1}{4}$ miles east	M. Fox Est.	P. Cabbilo	do.	1922	67	4	1.0

a/ Measuring point was usually top of casing, top of pipe clamp or top of well curb; it was above ground level unless below ground indicated by minus (-) sign.

b/ B, bucket; C, cylinder; V, windmill; G, gasoline; E, electric; H, hand; number indicates horsepower.

Records obtained by J. M. Frazier, Jr., Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
226	39.2	Oct. 17, 1939	C,W	D,S	Water level 37.5 feet, June 15, 1934. Reported strong supply of soft water.
227	48.9	do.	C,W	D,S	Water level 37.7 feet, temperature 76° F, June 6, 1934. Reported strong supply of soft water.
228	32.4	do.	C,W	D,S	Water level 30.5 feet, June 6, 1934.
229	Flows	--	--	--	Well reported to have formerly flowed 16 feet above ground. Supplies houses directly around without storage tank. Reported flow 5 gallons a minute. Is controlled by gate valve with two-inch choke. Reported head lowered four feet since 1934. Temperature
230	34.7	Oct. 17, 1939	C,W	D,S	Reported strong supply of hard water. <u>75° F.</u>
231	26.5	do.	C,W	S	Reported strong supply of soft water.

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

d/ No water sample collected for analysis.

e/ Water level reported.

Table of drillers' logs, Bee County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 35</u>		
M. A. Newman, owner. Houston Oil Company of Houston, driller. 1½ miles west of Pettus.		
Caliche - - - - -	27	27
Rock - - - - -	10	37
Hard rock - - - - -	4	41
Rock - - - - -	2	43
Caliche - - - - -	7	50
Sand, gravel and boulders	312	362
Sand and shale - - -	82	444
Sticky shale - - - -	22	466
Sand and shale - - -	266	732
Shale and boulders - -	263	995
Hard sand and sticky shale	68	1063
Shale and boulders - -	460	1523
Sticky shale and boulders	277	1800
Hard sticky shale and boulders - - - - -	141	1941
Hard shale and lime - -	135	2076
Lime boulders - - - -	10	2086
Sticky shale - - - - -	137	2223
Hard lime and shale - -	148	2371
Hard sandy lime and shale	120	2491
TOTAL DEPTH - - - - -		3705
CASING RECORD: 466 feet of 10-inch, and 3,681 feet of 6-5/8-inch casing.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 36</u>		
E. Crammel, owner. The Texas Company, driller. 1-3/4 miles southwest of Pettus.		
Sandy clay - - - - -	25	25
Clay - - - - -	85	110
Sandy shale - - - - -	230	340
Sticky shale - - - - -	105	445
Gumbo - - - - -	11	456
Sticky shale - - - - -	125	581
Shale and sand - - - -	300	881
Sand and rock - - - - -	40	921
Shale and lime - - - -	135	1056
Shale - - - - -	70	1126
Lime - - - - -	30	1156
Shale - - - - -	70	1226
Shale and shells - - -	300	1526
Lime and shale - - - -	74	1600
Sticky shale - - - - -	137	1737
Hard shale - - - - -	53	1790
Soft shale - - - - -	410	2200
Sand - - - - -	20	2220
TOTAL DEPTH - - - - -		3907
CASING RECORD: 451 feet of 10-3/4-inch, and 3,894 feet of 7-inch casing.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 37</u>		
J. E. Roth, owner. George W. McMurray Drilling Company, driller. 4½ miles southwest of Pettus.		
Surface sand - - - - -	40	40
Sand and clay - - - - -	70	110
Sand and boulders - - -	33	143
Sticky clay - - - - -	20	163
Shale - - - - -	27	190
Sand and boulders - - -	30	220
Shale and boulders - - -	130	350
Sand and shale - - - -	40	390
Shale - - - - -	150	540
Shale and boulders - - -	30	570
Shale - - - - -	100	670
Shale and boulders - - -	170	840
Shale - - - - -	15	855
Sand - - - - -	15	870
Shale and boulders - - -	65	935
Water sand - - - - -	27	962
Hard shale with sand streaks - - - - -	119	1081
Sand and shale - - - - -	60	1141
Sticky shale - - - - -	60	1201
Shale and boulders - - -	50	1251
Sand and shale streaks	100	1351
Shale and lime streaks	77	1428
Sticky shale - - - - -	21	1449
Hard shale and lime streaks	40	1489
Sticky shale - - - - -	21	1510
Shale and hard streaks of lime - - - - -	41	1551
Shale and streaks of lime	39	1590
Shale - - - - -	85	1675
Sandy shale - - - - -	15	1690
Broken lime - - - - -	20	1710
Shale and streaks of lime	170	1880
Shale and pyrite - - -	30	1910
Hard broken lime and shale	65	1975
Shale and streaks of sand	20	1995
Shale and streaks of lime	77	2072
Hard shale - - - - -	28	2100
Broken lime and shale - -	30	2130
TOTAL DEPTH - - - - -		3885
CASING RECORD: 3,380 feet of 7-inch, and 163 feet of 10-inch casing.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 63</u>		
-- Striebeck, owner. The Salt Dome Oil Corporation, driller. 5 miles south of Pettus.		
Surface soil - - - - -	146	146
(Continued on next page)		

Table of drillers' logs, Bee County--Continued

	Thickness (feet)	Depth (feet)
Driller's log of well 63--Continued		
Sand and sand rock - -	283	429
Gravel - - - - -	80	509
Shale and boulders - -	251	760
Sandy shale - - - - -	28	788
Sandy shale and shells -	62	850
Shale and shells - - -	55	905
Shale and lime - - - -	240	1145
Sandy shale - - - - -	61	1206
Shale - - - - -	64	1270
Shale and shells - - -	119	1389
Sticky shale and shells	337	1726
Sandy shale and shells -	116	1842
Shale and shells - - -	68	1910
Shale and lime - - - -	106	2016
Sandy shale - - - - -	92	2108
Shale and lime - - - -	82	2190
Sandy hard shale - - -	16	2206
Hard sandy shale and shells	124	2330
Sandy shale - - - - -	31	2361
TOTAL DEPTH - - - - -		3145
CASING RECORD: 112 feet of 10-inch, and 3,123 feet of 5-inch casing.		

Driller's log of well 65		
P. L. Campbell, owner. N. V. Duncan, driller. 6½ miles southwest of Petrus.		
Caliche, sand and rock -	40	40
Clay and sand - - - - -	152	192
Sand, clay and boulders	148	340
Clay, streaks of shale -	160	500
Sand and streaks of clay	200	700
Streaks of sand, clay and boulders - - - - -	324	1024
Sticky streaks of shale	106	1130

	Thickness (feet)	Depth (feet)
Driller's log of well 65--Continued		
Sand and boulders - -	35	1165
Shale and boulders - -	70	1235
Sticky streaks of shale	196	1431
Sticky shale - - - - -	74	1505
Shale and hard lime -	21	1526
Hard broken lime - -	11	1537
Lime and sticky streaks of shale - - - - -	40	1577
Shale and streaks of lime	66	1643
Hard lime and rock - -	2	1645
Hard lime and shale -	55	1700
Hard sticky shale - -	100	1800
Hard shale and lime -	20	1820
Hard sticky lime - -	80	1900
Shale and lime streaks	64	1964
Shale and streaks of hard lime - - - - -	306	2270
TOTAL DEPTH - - - - -		3962
CASING RECORD: 3,950 feet of 5½-inch casing.		

Driller's log of well 83		
R. T. Hicks, owner. James R. Dougherty, driller. 6¾ miles northwest of Beeville.		
Caliche- - - - -	55	55
Caliche, sand and clay	107	162
Shale - - - - -	29	191
Sand with water - - -	182	373
Broken sand and shale -	442	815
Shale - - - - -	35	850
Sandy shale and boulders	516	1366
Shale and sand - - -	589	1955
Shale and shells - -	132	2087
Shale and hard lime -	522	2609
TOTAL DEPTH - - - - -		3673

Logs of test wells drilled by W. P. A. labor in Bee County, Texas  
 Samples examined and classified by J. M. Frazier, Jr.,  
 Project Superintendent

	Thickness (feet)	Depth (feet)
<u>Well 300</u>		
2 $\frac{1}{2}$ miles south of Pawnee and 12 $\frac{1}{2}$ miles west of Pettus.		
Surface soil - - - - -	1	1
Dirt - - - - -	4	5
Clay - - - - -	4	9
Sand - - - - -	16	25
Clay - - - - -	1	26
Yellow sand - - - - -	1	27
Sand - - - - -	3	30
Sand and clay - - - - -	2	32
Yellow clay - - - - -	5	37
November 9, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 301</u>		
Flat, east of State Highway, 10 $\frac{1}{2}$ miles west of Pettus.		
Surface soil - - - - -	1	1
Sand, soil and rock - - - - -	5	6
Clay and rock - - - - -	2	8
Brown clay - - - - -	4	12
Caliche - - - - -	9	21
Caliche, clay and sand - - - - -	7	28
Brown clay - - - - -	4	32
November 8, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 302</u>		
In draw, Mrs. A. Dugat tract, side of Censar Road, 5 $\frac{3}{4}$ miles west of Pettus.		
Caliche - - - - -	4	4
Caliche and sand - - - - -	6	10
Sand - - - - -	1	11
Clay and shale - - - - -	19	30
December 19, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 303</u>		
Flat, side of County Road, 9 $\frac{1}{2}$ miles west of Pettus.		
Surface soil - - - - -	1	1
Caliche - - - - -	18	19
Clay - - - - -	4	23
Shale - - - - -	5	28
December 20, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 304</u>		
Flat, west side of Highway 181 at county line, 3 $\frac{1}{2}$ miles north of Pettus.		
Surface soil - - - - -	3	3
Sand and clay - - - - -	5	8
Sand - - - - -	7	15
Shale - - - - -	6	21
Red shale and clay - - - - -	5	26
Sand and clay - - - - -	1	27

	Thickness (feet)	Depth (feet)
<u>Well 304--Continued</u>		
Sand - - - - -	12	39
November 14, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 305</u>		
Flat, --Hartsendorf tract, west side of Highway 181, 1 mile north of Pettus.		
Surface soil - - - - -	1	1
Sand and surface soil - - - - -	1	2
White sand - - - - -	4	6
Brown sand - - - - -	6	12
Brown sand and chalk - - - - -	2	14
Sand - - - - -	6	20
Yellow sand - - - - -	3	23
Sand - - - - -	8	31
Water sand and clay - - - - -	4	35
November 14, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 306</u>		
Flat, east side of Censar Road, 1 $\frac{1}{2}$ miles north of Pettus.		
Surface soil - - - - -	1	1
Clay and surface soil - - - - -	3	4
Sand - - - - -	2	6
Caliche and sand - - - - -	2	8
Sand - - - - -	3	11
Sand and caliche - - - - -	2	13
White sand - - - - -	3	16
Caliche - - - - -	1	17
Caliche and sand - - - - -	1	18
Sand - - - - -	14	32
Sand and gravel - - - - -	1	33
Sand - - - - -	6	39
November 21, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 307</u>		
Flat, State Highway Department tract, west side of Highway 281, 3 miles south of Pettus.		
Surface soil - - - - -	1	1
Clay - - - - -	3	4
Sand and caliche - - - - -	1	8
Sand, caliche and red clay - - - - -	9	17
Sand and clay - - - - -	4	21
Sand and red clay - - - - -	10	31
Clay and soapstone - - - - -	3	34
November 13, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 308</u>		
Flat, north side of County Road, 6 miles southwest of Pettus.		
Surface clay - - - - -	2	2
(Continued on next page)		

Logs of W. P. A. test wells in Pec County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 308--Continued</u>		
Caliche and sand - - - - -	15	17
Rock - - - - -	1	18
December 18, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 309</u>		
Hillside, N. Peck tract, side of Mineral Road, 5 1/2 miles southwest of Pettus.		
Surface soil - - - - -	2	2
Black loam - - - - -	2	4
Sand - - - - -	1	5
Sand and caliche - - - - -	5	10
Sand, caliche and clay - - - - -	4	14
Caliche - - - - -	10	24
Caliche and sand - - - - -	14	38
December 12, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 310</u>		
Flat, east side of Olmos Road, 10 miles north of Beeville.		
Surface loam - - - - -	1	1
Loam and chalk - - - - -	2	3
Caliche - - - - -	4	7
Caliche and clay - - - - -	2	9
Marl - - - - -	2	11
Clay and chalk - - - - -	2	13
Light-colored marl - - - - -	2	15
Yellow marl and clay - - - - -	3	18
-- 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 311</u>		
Flat, G. H. Mickelson tract, in Charco, 6 1/2 miles north of Beeville.		
Surface soil - - - - -	1	1
Soil and sand - - - - -	2	3
Clay and caliche - - - - -	9	12
Sand and caliche - - - - -	8	20
Sand - - - - -	6	26
Clay - - - - -	3	29
Water sand - - - - -	10	39
Struck water at 29 feet. Water level, 30 feet below ground level, 24 hours after hole completed. November 27, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 312</u>		
Hillside, Mrs. R. A. Ivey tract, east side of Mineral Road, 6 miles northwest of Beeville.		
Surface soil - - - - -	2	2
Red clay - - - - -	3	5
Red clay and chalk - - - - -	1	6
Sand and chalk - - - - -	10	16
Sand and gravel - - - - -	5	21
Sand and chalk - - - - -	6	27
Sand - - - - -	2	29
November 6, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 313</u>		
Flat, east side of County Road, 2 miles south of Beeville.		
Surface soil - - - - -	2	2
Soil and clay - - - - -	3	5
Clay - - - - -	13	18
Clay and caliche - - - - -	10	28
Clay - - - - -	3	31
December 4, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 314</u>		
Hillside, Ernest Kinkler tract, south side of Highway 202, 7 miles southwest of Beeville.		
Surface soil - - - - -	1	1
Yellow clay - - - - -	1	2
Caliche - - - - -	3	5
Sand and caliche - - - - -	2	7
Caliche - - - - -	8	15
October 6, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 315</u>		
Flat, R. L. Jones tract, west side of Highway 202, 4 1/2 miles north of Skidmore.		
Surface soil - - - - -	1	1
Sand and clay - - - - -	2	3
Caliche - - - - -	5	8
Sand and caliche - - - - -	7	15
Sand and clay - - - - -	4	19
Sand - - - - -	13	32
October 20, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 316</u>		
In draw, west side of Old Tynan Road, 4 1/2 miles west of Skidmore.		
Surface soil - - - - -	3	3
Sand and clay - - - - -	3	6
Sand - - - - -	2	8
Caliche - - - - -	3	11
Caliche and clay - - - - -	3	14
Sand and clay - - - - -	3	17
Clay - - - - -	10	27
Sand and clay - - - - -	6	33
Sand - - - - -	5	38
December 6, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 317</u>		
Flat, side of Tynan-Clareville Road, 7 1/4 miles southwest of Skidmore.		
Surface soil - - - - -	2	2
Clay and chalk - - - - -	17	19
Clay - - - - -	7	26
Sand and clay - - - - -	14	40
December 8, 1939.		

Logs of W. P. A. test wells in Bee County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 318</u>		
Flat, side of Tynan-Clareville Road, 9 miles southwest of Skidmore.		
Surface soil - - - - -	1	1
Soil and clay - - - - -	2	3
Clay - - - - -	6	9
Clay and chalk - - - - -	3	12
Shale - - - - -	2	14
Clay - - - - -	2	16
Chalk - - - - -	1	17
Clay - - - - -	19	36
Sand - - - - -	7	43
December 8, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 319</u>		
Flat, west side of Highway 96, south edge of Tynan, 7½ miles southwest of Skidmore.		
Black surface soil - - - - -	1	1
Sand and soil - - - - -	1	2
Sand and clay - - - - -	5	7
Clay, sand and chalk - - - - -	3	10
Sand - - - - -	2	12
Sand and chalk - - - - -	3	15
Yellow sand - - - - -	8	23
Sand and chalk - - - - -	6	29
October 27, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 320</u>		
Flat, southwest side of Tynan-Clareville Road, 5½ miles southwest of Skidmore.		
Surface soil - - - - -	2	2
Clay - - - - -	3	5
Sand and clay - - - - -	4	9
Sand, clay and chalk - - - - -	17	26
Sand - - - - -	7	33
December 7, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 321</u>		
Flat, A. L. Materne tract, west side of Highway 202, 1 mile south of Beeville.		
Black surface soil - - - - -	1	1
Soil and clay - - - - -	2	3
Clay - - - - -	2	5
Sand and clay - - - - -	1	6
Caliche - - - - -	1	7
Caliche and clay - - - - -	1	8
Sand - - - - -	5	13
Sand and caliche - - - - -	5	18
Sand and rock - - - - -	2	20
Sand and caliche - - - - -	6	26
Sand and clay - - - - -	3	29
Sand - - - - -	1	30
Clay and sand - - - - -	3	33
Sand - - - - -	2	35

	Thickness (feet)	Depth (feet)
<u>Well 321--Continued</u>		
Sand and clay - - - - -	6	41
Struck water at 34 feet. Water level, 34 feet below ground level, - hours after hole completed. October 16, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 330</u>		
Flat, Collings tract, south of Highway 202, 4 miles southeast of Beeville.		
Surface soil - - - - -	1	1
Gumbo - - - - -	1	2
Gumbo and clay - - - - -	1	3
Sand, clay and chalk - - - - -	5	8
Sand - - - - -	2	10
Yellow sand - - - - -	2	12
Sand - - - - -	3	15
Fine sand - - - - -	2	17
Coarse sand - - - - -	3	20
Coarse sand and chalk - - - - -	3	23
Sand and gravel - - - - -	6	29
October 10, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 331</u>		
Flat, Con Murphey tract, south side of Highway 202, 10 miles east of Beeville.		
Surface clay - - - - -	1	1
Clay and chalk - - - - -	2	3
Sand and clay - - - - -	2	5
Sand - - - - -	3	8
White sand - - - - -	11	19
White sand and gravel - - - - -	2	21
Yellow sand and gravel - - - - -	7	28
October 11, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 332</u>		
Flat, J. M. O'Brian tract, south side of Highway 202, 16½ miles east of Beeville.		
Surface soil - - - - -	1	1
Sand - - - - -	4	5
Sand and clay - - - - -	4	9
Sand, clay and marl - - - - -	11	20
Sand, clay and chalk - - - - -	2	22
Sand, clay and rock - - - - -	1	23
Sand - - - - -	3	26
Sand, clay and chalk - - - - -	3	29
Clay - - - - -	1	30
Clay and chalk - - - - -	2	32
October 17, 1939.		

Results of field tests of samples collected and tested in April, May and June 1934 by the United States Geological Survey.

Parts per million

Well No.	Hardness	Bicarbonate	Chloride
1	550	256	2,120
2	--	--	--
3	170	256	11
4	270	332	122
5	650	328	595
6	800	286	950
7	260	392	472
8	390	332	518
9	390	300	528
10	370	360	890
11	220	488	670
12	460	270	312
13	1,200	356	1,170
20	250	320	208
21	280	296	182
22	270	350	328
23	750	344	752
24	450	316	632
25	950	400	975
26	500	304	380
27	500	266	645
28	240	386	158
29	420	328	295
30	290	352	235
31	320	360	745
32	400	336	335
33	450	340	400
34	310	382	128
40	310	394	341
41	300	322	270
42	330	464	210
43	750	278	930
44	950	302	825
45	1,100	220	1,032
46	500	336	470
50	210	348	125
51	350	356	152
52	150	380	210
53	540	368	195
54	240	276	364
55	330	376	232
56	270	442	156
57	270	552	125
58	--	--	--
59	950	218	790
60	390	280	318
61	270	296	98
62	600	292	448
70	550	308	450
71	260	362	155
72	--	--	--

Well No.	Hardness	Bicarbonate	Chloride
73	380	388	190
74	200	328	155
75	200	304	210
76	360	262	302
77	170	336	61
78	140	268	30
79	220	314	86
90	220	382	186
91	1,200	226	322
92	480	316	365
93	800	308	482
94	650	380	412
95	290	354	218
96	500	428	378
97	480	232	470
98	420	296	288
99	1,000	276	955
100	470	358	502
110	1,000	230	850
115	240	370	130
116	120	322	48
117	190	378	105
118	--	--	--
119	700	330	760
120	--	--	--
121	20	600	510
122	1,000	302	815
123	200	562	100
124	260	340	145
125	800	432	1,080
126	290	358	168
127	420	576	215
128	--	--	--
129	750	330	530
130	700	396	580
131	550	264	450
140	380	584	175
141	230	404	175
142	260	446	188
143	900	342	690
144	--	--	--
145	310	428	252
150	800	268	645
151	530	350	251
152	370	326	305
153	350	504	326
154	750	302	742
155	250	548	182
156	250	320	199
157	400	332	266
158	1,000	304	990

Well No.	Hardness	Bicarbonate	Chloride
171	--	--	--
172	200	362	122
173	380	360	245
174	370	320	338
175	950	302	920
176	750	274	468
177	650	296	455
178	--	--	--
179	--	--	--
180	--	--	--
190	950	280	875
191	360	396	233
192	520	310	135
193	--	--	--
194	440	524	540
195	260	308	195
200	460	254	365
201	900	336	1,130
202	470	340	390
203	480	324	332
204	260	272	136
205	350	586	1,240
206	500	572	435
207	10	440	254
208	--	--	--
220	--	--	--
221	500	266	400
222	320	332	190
224	950	316	840
225	480	426	430
226	370	408	225
227	--	--	--
228	--	--	--
229	130	418	118



Partial analyses of water from wells in Bee County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, and E. W. Lohr, Chemist, U. S. Department of the Interior, Geological Survey; by D. F. Riddell, and H. T. Davidson, Chemists; and Martin Wieland, Jack Ramsey, and J. H. Raby, Assistant Chemists. Nitrate and fluoride determined by E. W. Lohr. 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> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Fluoride (F)	Total hardness as CaCO <sub>3</sub> (calc.)
1	F. J. Hoff	375	Nov. 8, 1939	3,650	225	28	1,156	244	a/	2,120	b/	-	677
2	W. Franke	275	do.	4,041	197	36	1,328	305	a/	2,320	b/	-	643
3	Mrs. E. Cook	135	Nov. 7, 1939	247	54	4	39	238	12	21	b/	-	153
4	Mrs. C. Hoaglund	119	Nov. 8, 1939	479	76	11	96	305	26	120	b/	-	237
c/ 5	W. A. Mueller	90	do.	1,577	1,577	32	305	323	244	605	b/	0.6	710
6	T. M. Plumer	275	do.	1,207	48	11	401	366	167	400	b/	0.4	167
7	E. H. Peterson	172	do.	-	-	-	-	-	274	470	b/	-	-
8	H. W. Marcheck	168	do.	1,267	102	5	367	250	200	470	b/	-	278
9	H. H. Voges	276	do.	1,297	120	21	339	305	176	490	b/	0.7	388
10	Schroeder & Holland	312	do.	1,840	143	24	530	360	136	830	b/	-	455
11	John Olson	200	do.	1,850	45	13	651	445	199	720	b/	0.9	174
12	W. A. Robertson	60	Nov. 14, 1939	1,125	176	55	150	183	48	498	108	-	664
c/ 13	do.	163	do.	2,890	460	94	431	317	679	1,070	-	0.2	1,538
14	T. Plummer	110	Dec. 20, 1939	759	--	-	-	262	64	290	b/	-	-
a/ 20	O. Schmenemann	44	Nov. 22, 1939	687	81	8	168	293	36	200	50	0.4	235
c/ 25	W. G. Rutledge	60	Nov. 14, 1939	1,683	136	55	405	177	164	760	75	0.5	569
26	H. Pullin	115	do.	867	152	39	112	262	72	330	33	-	539
27	C. S. Page	170	do.	1,309	141	34	308	244	96	610	b/	-	491
28	J. E. Copeland	105	do.	1,417	166	45	294	262	70	620	93	-	598
29	G. A. Ray	130	do.	705	105	22	131	287	56	240	b/	-	354
30	do.	76	do.	685	117	24	112	311	44	235	b/	-	390
c/ 31	Houston Oil Co.	560	do.	1,711	71	25	551	329	172	730	b/	0.1	280
32	G. A. Ray	112	do.	992	152	27	183	317	104	370	b/	-	492
33	Central Power & Light Co.	238	do.	1,125	182	26	207	329	88	460	b/	-	561
34	Mrs. W. E. McKinney	190	Dec. 5, 1939	573	109	16	91	342	25	164	b/	-	340
38	C. H. Cook	69	Dec. 20, 1939	938	111	25	215	348	68	348	b/	-	390

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

c/ Analyses of selected wells are given in milligrams equivalents per liter on page 30.

Partial analyses of water from wells in Bee 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> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Fiberide (F)	Total hardness as CaCO <sub>3</sub> (calc.)
39	J. Looney Est.	20	Nov. 8, 1939	3,637	554	140	585	323	359	1,840	-	-	1,962
41	R. R. Dubose	101	Nov. 6, 1939	726	100	19	150	281	32	260	27	-	327
42	J. R. North	93	do.	963	95	22	227	433	48	240	98	-	329
43	W. F. Marshall	41	do.	1,912	251	52	381	250	136	900	69	-	842
c/ 44	H. E. Yoward	274	do.	1,772	262	58	310	268	196	810	b/	0.4	896
45	S. F. New	147	do.	1,950	337	77	273	171	132	1,040	b/	-	1,157
46	R. C. Harris	136	Nov. 14, 1939	1,039	88	33	265	153	23	555	b/	-	356
c/ 50	Felipe Perez	127	do.	555	58	19	133	342	52	124	b/	0.8	222
51	C. E. Steltzfos	104	Nov. 26, 1939	603	-	-	-	354	50	155	b/	-	-
53	Steltzfos Est.	75	do.	771	79	24	183	366	96	205	b/	-	295
55	G. T. Roberts	104	do.	751	89	22	169	366	62	220	b/	-	314
c/ 57	C. A. Butts	60	do.	667	59	16	183	427	40	150	b/	1.2	215
60	Carlos Carrizoles	120	Dec. 12, 1939	405	69	16	67	336	16	60	b/	-	240
64	M. Beck	70	do.	698	90	21	145	293	88	210	b/	-	313
66	P. L. Campbell	120	do.	730	131	25	105	262	60	270	b/	-	430
67	N. Arrizolla	65	do.	562	62	11	133	311	40	103	60	-	202
68	C. A. Bast	100	Dec. 20, 1939	762	104	24	156	323	44	275	b/	-	360
69	Community Church	60	do.	394	57	14	83	384	22	28	b/	0.7	199
70	Commercial National Bank	83	Nov. 15, 1939	1,090	147	35	215	311	100	440	b/	-	512
71	Mrs. J. W. Carson	153	do.	635	76	19	142	336	48	170	b/	-	267
c/ 73	Patrick Martin	67	Nov. 6, 1939	686	98	21	133	342	54	190	22	-	333
74	P. H. & M. P. Martin	83	do.	577	69	16	133	329	44	150	b/	-	240
75	T. J. Foreman Est.	73	do.	715	84	20	163	372	56	190	b/	-	292
c/ 76	Sydney Smith	92	Nov. 15, 1939	876	125	24	161	329	52	260	86	-	410
77	J. Harris	120	do.	423	59	8	98	323	20	70	b/	0.6	180
78	Whitehead Est.	49	do.	304	52	10	57	305	11	24	b/	-	171
79	Dave Turner	89	do.	636	49	15	181	366	48	162	b/	-	184
80	W. Nation	80	Dec. 20, 1939	591	58	13	155	354	66	124	b/	0.7	198
81	J. A. Black	120	do.	1,041	138	45	196	232	28	520	b/	-	528
82	W. Brice	98	Nov. 6, 1939	820	138	26	137	317	60	300	b/	-	451
84	H. W. Murphey	70	Dec. 12, 1939	506	77	16	88	323	44	68	54	-	260
c/ 90	Sam Brown	134	Nov. 1, 1939	703	64	18	187	366	48	200	b/	0.8	231

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

c/ Analyses of selected wells are given in milligrams equivalents per liter on page 30.

Partial analyses of water from wells in Bee 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> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Fluoride (F)	Total hardness as CaCO <sub>3</sub> (calc.)
91	Emil Kinkler	224	Nov. 1, 1939	1,274	262	80	89	171	68	680	b/	0.5	985
92	T. J. Hillard	119	do.	1,046	144	47	169	226	120	405	50	-	554
93	Earnest Kinkler	120	do.	-	-	-	-	-	10	25	23	-	-
94	F. H. Boothe	159	do.	-	-	-	-	-	200	410	b/	-	-
95	E. Mueller	96	do.	729	81	22	169	336	52	230	b/	-	294
96	C. H. Sugarek	72	Nov. 2, 1939	1,057	137	36	216	378	72	410	b/	-	493
97	A. W. Kinkler	103	Nov. 1, 1939	1,105	181	45	164	195	68	530	21	-	638
c/ 98	J. P. Impson	110	do.	781	136	28	115	366	20	235	66	0.5	458
99	I. J. Miller	98	do.	1,842	287	60	308	214	184	895	b/	-	962
100	J. T. Earnest	85	Nov. 2, 1939	840	35	44	225	207	72	362	b/	-	267
101	R. J. Besley	92	Dec. 11, 1939	1,802	-	-	-	378	236	740	b/	-	-
102	P. T. Martin	97	do.	425	28	9	132	329	28	66	b/	-	106
110	Mrs. J. W. Greer	160	Dec. 5, 1939	1,611	257	76	230	183	112	840	b/	-	957
115	Texas Exp. Station	148	Nov. 28, 1939	612	67	15	151	372	44	135	b/	0.8	229
116	R. B. Burditt	115	Nov. 15, 1939	372	24	10	113	305	26	48	b/	0.8	101
117	W. P. Richardson	140	do.	442	52	11	110	336	19	84	b/	0.8	177
c/118	J. W. Bates	187	do.	1,971	292	69	346	262	106	1,008	21	-	1,013
121	Central Power & Light Co.	1,539	Nov. 10, 1939	1,295	8	2	520	598	a/	470	b/	1.1	26
c/122	J. R. Scott	70	Dec. 11, 1939	1,683	246	55	297	293	164	740	36	0.8	839
123	T. G. Bailey	66	do.	502	73	7	114	348	28	90	b/	-	209
124	J. T. Taylor	73	Nov. 28, 1939	580	75	16	128	348	44	140	b/	-	255
126	V. L. Kelley	80	Nov. 2, 1939	-	-	-	-	-	31	160	b/	-	-
c/127	Oscar Leming	47	do.	2,767	418	117	425	329	317	1,290	38	0.3	1,527
128	F. Hartzendorf	70	Oct. 13, 1939	470	95	11	72	342	44	80	b/	-	282
c/129	W. Juenger	81	do.	1,343	190	56	226	336	200	505	b/	0.7	705
130	J. C. Wood Est.	95	Nov. 3, 1939	1,211	150	50	232	342	150	460	b/	-	581
132	W. Ellis	100	Oct. 13, 1939	2,172	277	85	413	323	188	1,050	b/	-	1,043
133	do.	90	do.	2,340	297	85	85	305	236	1,120	b/	-	1,093
134	A. Waelder	67	Nov. 3, 1939	-	-	-	-	-	117	1,110	b/	-	-
135	R. A. Baber	60	Oct. 13, 1939	531	78	10	113	317	64	110	b/	-	236
136	E. A. Rappe	70	Dec. 11, 1939	595	-	-	-	372	28	160	b/	-	-
137	J. Ballard	100	Oct. 13, 1939	562	69	19	127	366	26	140	b/	1.3	252

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a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

c/ Analyses of selected wells are given in milligrams equivalents per liter on page 30.

Partial analyses of water from wells in Bee 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> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Fluoride (F)	Total hardness as CaCO <sub>3</sub> (calc.)
138	A. Kubala	60	Oct. 13, 1939	729	80	23	177	439	32	200	b/	1.0	294
139	J. Contrara	50	Oct. 19, 1939	859	107	27	189	363	40	316	b/	-	377
140	Pryor Lucas	56	Nov. 28, 1939	747	115	25	129	384	60	180	49	-	390
141	W. E. Handy	156	do.	680	76	11	175	390	56	170	b/	-	237
142	Mrs. A. Boemer	74	do.	727	79	14	178	427	84	122	40	-	254
c/143	Heard & Heard	127	do.	546	73	14	124	384	24	114	b/	0.7	239
145	M. Murphy	115	Nov. 3, 1939	829	86	19	210	390	71	250	b/	-	292
146	F. Hartzendorf	70	Oct. 13, 1939	987	149	38	167	354	124	335	b/	-	528
151	J. Wallek	110	Nov. 2, 1939	749	121	16	143	336	44	250	b/	-	370
c/152	E. C. Steinmicht	130	do.	813	147	24	126	311	66	290	b/	0.1	465
153	Frank Trlica	85	do.	1,013	156	50	189	317	38	440	b/	-	513
154	Chas. Menger	138	do.	1,013	138	27	211	427	95	330	b/	-	457
155	Herman Jostes	130	do.	648	88	19	139	372	26	185	b/	-	297
156	J. Kolaba, Sr.	150	do.	665	47	27	175	336	56	195	b/	-	227
157	A. Stautzenberger	105	do.	767	199	31	40	329	82	250	b/	-	624
c/158	Steimeyer & Co.	120	Oct. 27, 1939	2,957	514	95	434	232	300	1,500	b/	0.2	1,674
168	R. L. Jones	50	Dec. 11, 1939	990	132	37	187	329	118	350	b/	-	483
169	D. Perrez	50	do.	873	104	40	171	342	68	310	b/	-	425
171	W. J. Homan	64	Nov. 17, 1939	2,249	320	100	376	281	140	1,170	b/	-	1,212
172	M. L. Rendleman	97	Oct. 20, 1939	507	68	33	82	354	28	116	b/	-	306
173	H. C. Buehring	95	Nov. 2, 1939	914	136	26	176	348	73	330	b/	-	446
174	S. A. Duge	108	do.	878	-	-	-	275	62	360	b/	-	-
c/175	C. Sevier	85	Oct. 23, 1939	1,828	263	77	310	317	152	870	b/	0.5	972
176	Mrs. C. Driscoll	93	Nov. 17, 1939	930	178	55	80	159	10	490	b/	-	657
c/178	T. & N. O. R.R.	745	Oct. 20, 1939	641	41	11	104	354	60	154	b/	0.7	117
179	do.	125	Nov. 17, 1939	764	-	-	-	201	56	330	b/	-	-
181	Union Life Ins. Co.	90	Dec. 11, 1939	4,704	855	227	515	244	607	2,380	b/	0.4	3,070
190	J. L. Flake	64	Oct. 23, 1939	1,767	259	86	277	262	116	900	b/	-	1,003
191	F. J. Gregoresyk	48	Nov. 17, 1939	722	85	42	160	336	36	290	b/	-	386
192	Geo. F. Gillian	64	Oct. 23, 1939	401	71	27	47	293	22	90	b/	-	287
193	R. Roch	135	Nov. 17, 1939	765	103	31	144	201	38	350	b/	-	384
194	Mrs. A. Hennig	96	Oct. 23, 1939	1,662	140	66	404	512	132	668	b/	-	621
195	G. E. Gerdes	228	do.	579	70	26	121	311	15	194	b/	-	281
196	Mrs. J. W. Linney	90	Dec. 11, 1939	540	112	41	40	458	a/	98	b/	0.8	150
197	Murphey Est.	60	do.	461	76	28	66	366	26	88	b/	-	308

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

c/ Analyses of selected wells are given in milligrams equivalents per liter on page 30.

Partial analyses of water from wells in Bee 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> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Fluoride (F)	Total hardness as CaCO <sub>3</sub> (calc.)
c/200	R. A. Heard	600	Nov. 3, 1939	1,307	208	46	217	336	109	560	b/	0.5	709
205	L. D. Thompson	86	Nov. 17, 1939	2,872	-	-	-	366	292	1,380	b/	-	-
c/207	do.	1,200	do.	854	14	3	325	342	34	310	b/	0.4	47
208	do.	65	do.	453	88	5	82	281	18	122	b/	-	243
220	J. M. O'Brian	928	Oct. 13, 1939	920	19	5	337	220	40	410	b/	0.8	68
222	Dan Fox	160	Nov. 3, 1939	696	96	19	145	354	69	190	b/	0.6	317
224	M. Fox Est.	52	do.	1,661	227	68	302	207	60	900	b/	-	847
225	do.	104	Oct. 17, 1939	1,222	109	44	296	390	116	465	b/	-	452
226	M. McGill Est.	64	do.	728	104	33	130	378	52	223	b/	-	395
227	do.	100	do.	3,686	409	181	69	360	447	1,780	-	-	1,767
c/228	C. A. Barber	56	do.	1,574	150	64	354	397	156	655	b/	0.3	640
229	V. G. Thomas	644	do.	593	40	18	170	403	56	110	b/	0.5	176
230	W. J. Barber Est.	58	do.	2,017	174	71	486	403	228	860	b/	-	724
231	M. Fox Est.	67	do.	1,026	-	-	-	378	88	378	b/	-	-
300	T. P. A. Test	37	Nov. 9, 1939	21,814	4,274	788	2,586	122	1,206	12,900	-	-	13,926

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

c/ Analyses of selected wells are given in milligrams equivalents per liter on page 30.

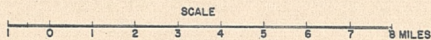
Chemical Analyses--Continued

Results are in milligrams equivalents per liter.

Well	Owner	Depth of well (ft.)	Date of collection	Total hardness as CaCO <sub>3</sub> (calc.) <sup>3</sup>	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calc. )	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total dissolved solids (calc.)
5	W. A. Mueller	90	Nov. 8, 1939	14.20	11.56	2.64	13.28	5.30	5.09	17.06	0.03	-	54.96
13	W. A. Robertson	163	Nov. 14, 1939	30.76	23.00	7.76	18.76	5.20	14.14	30.18	0.01	-	99.04
20	O. Schmenemann	44	Nov. 22, 1939	4.70	4.06	0.64	7.30	4.80	0.74	5.64	0.02	0.81	24.00
25	W. G. Rutledge	60	Nov. 14, 1939	11.38	6.82	4.56	17.60	2.90	3.41	21.43	0.03	1.21	57.96
31	Houston Oil Co.	560	do.	5.60	3.56	2.04	23.97	5.40	3.57	20.59	0.01	-	59.14
44	H. E. Yoward	274	Nov. 6, 1939	17.92	13.12	4.80	13.46	4.40	4.07	22.84	0.02	0.06	62.76
50	Felipe Perez	127	Nov. 14, 1939	4.44	2.90	1.54	5.78	5.60	1.08	3.50	0.04	-	20.44
57	C. A. Butts	60	Nov. 26, 1939	4.30	2.96	1.34	7.94	7.00	0.83	4.23	0.06	0.12	24.48
73	Patrick Martin	67	Nov. 6, 1939	6.66	4.92	1.74	5.77	5.60	1.12	5.36	-	0.35	24.86
76	Sydney Smith	92	Nov. 15, 1939	8.20	6.26	1.94	7.01	5.40	1.08	7.33	-	1.39	30.42
90	Sam Brown	134	Nov. 1, 1939	4.62	3.13	1.44	8.14	6.00	0.99	5.64	0.04	0.08	25.52
98	J. P. Impson	110	do.	9.16	6.82	2.34	4.98	6.00	0.42	6.63	0.03	1.06	28.28
118	J. W. Bates	187	Nov. 15, 1939	20.26	14.58	5.68	15.03	4.30	2.21	28.43	-	0.34	70.58
122	J. R. Scott	70	Dec. 11, 1939	16.78	12.30	4.48	12.92	4.80	3.41	20.87	0.04	0.58	59.40
127	Oscar Leming	47	Nov. 2, 1939	30.54	20.90	9.64	18.46	5.40	6.61	36.38	0.02	0.61	98.00
129	W. Juenger	81	Oct. 13, 1939	14.10	9.50	4.60	9.84	5.50	4.16	14.24	0.04	-	47.88
143	Heard & Heard	127	Nov. 28, 1939	4.78	3.64	1.14	5.39	6.30	0.50	3.21	0.04	0.12	20.34
152	E. C. Steinmicht	130	Nov. 2, 1939	9.30	7.36	1.94	5.46	5.10	1.36	8.18	0.02	0.11	29.52
158	Steimeyer & Co.	120	Oct. 27, 1939	33.48	25.68	7.80	18.87	3.80	6.24	42.31	0.01	-	104.70
175	C. Sevier	85	Oct. 23, 1939	19.44	13.14	6.30	13.49	5.20	3.16	24.54	0.03	-	65.86
178	T. & N. O. R.R.	745	Oct. 20, 1939	2.94	2.04	0.90	8.45	5.80	1.24	4.34	0.02	-	22.78
200	R. A. Heard	600	Nov. 3, 1939	14.18	10.38	3.80	9.45	5.50	2.28	15.75	0.03	0.03	47.26
207	L. D. Thompson	1,200	Nov. 17, 1939	0.94	0.72	0.22	14.11	5.60	0.70	8.74	0.02	-	30.10
228	C. A. Barber	56	do.	12.80	7.50	5.30	15.41	6.50	3.24	18.47	0.02	-	56.42



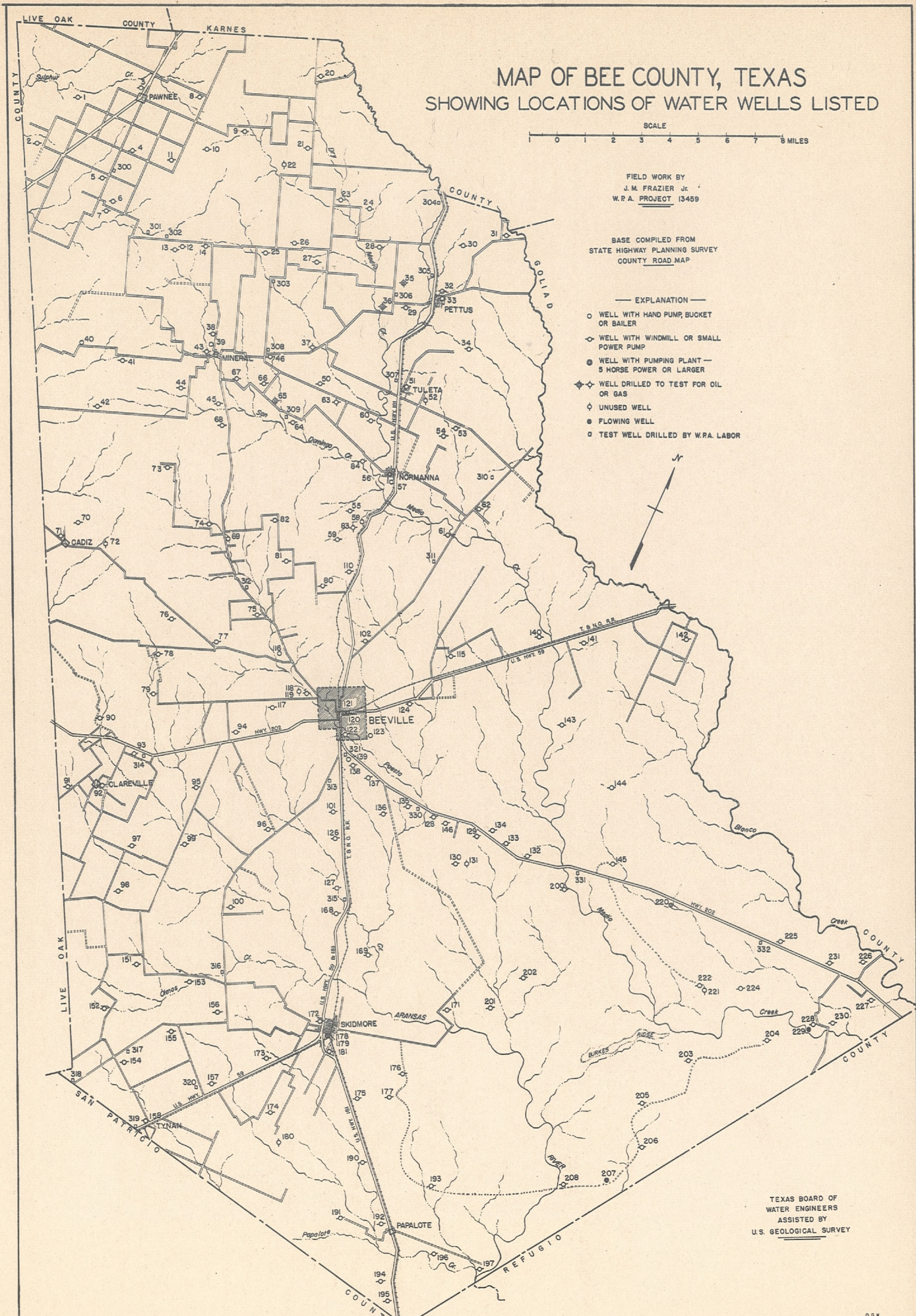
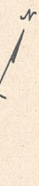
# MAP OF BEE COUNTY, TEXAS SHOWING LOCATIONS OF WATER WELLS LISTED



FIELD WORK BY  
J. M. FRAZIER Jr.  
W.P.A. PROJECT 13459

BASE COMPILED FROM  
STATE HIGHWAY PLANNING SURVEY  
COUNTY ROAD MAP

- EXPLANATION —
- WELL WITH HAND PUMP, BUCKET OR BAILER
  - ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
  - WELL WITH PUMPING PLANT — 5 HORSE POWER OR LARGER
  - ◆ WELL DRILLED TO TEST FOR OIL OR GAS
  - ◇ UNUSED WELL
  - FLOWING WELL
  - ◻ TEST WELL DRILLED BY W.P.A. LABOR



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