

TEXAS

STATE BOARD OF WATER ENGINEERS

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EDWARDS COUNTY, TEXAS

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

Works Progress Administration Project 12480

Analyses made and report mimeographed by
WORKS PROGRESS 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.

July 1939

EDWARDS COUNTY, TEXAS

Introduction

by

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United States Department of the Interior

Geological Survey

This publication contains data obtained in the course of a survey in Edwards County, Texas, consisting of records of wells and springs, logs of wells and test holes, and analyses of water from wells and springs. The locations of all wells, springs and test holes that are listed are shown on the map in the back of the book.

This survey (project 12480 of District 10, San Antonio) was a part of the State-wide inventory of water wells sponsored by the State Board of Water Engineers in cooperation with the U. S. Department of the Interior, Geological Survey. It was started December 16, 1938 and completed March 15, 1939. J. M. Frazier, Jr., an engineer, was project superintendent. The office of the Works Progress Administration in San Antonio gave valuable aid to the project, and the Edwards County Commissioners' Court cooperated by furnishing transportation for the workers.

The analyses were made by chemists employed on Works Progress 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 a guide to land owners and well drillers who need information regarding wells, the depth to ground water in different parts of the county, and the quantity and quality 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 which is to determine the distribution and extent of the available ground-water supplies.

Records of wells and springs in Edwards 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 Rock-springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
d/ 1	30 miles northwest	J. H. Taylor	O. L. Williams	Flat	1935	600	6-5/8	--
d/ 2	29 miles northwest	-- Holman Est.	do.	do.	1935	1,420	--	0
d/ 3	26½ miles northwest	Paul Turney	H. H. Sides	do.	1934	1,003	--	--
d/ 4	30½ miles northwest	A. G. Holman	Phillips Pet. Co.	do.	1931	8,125	8	1
5	28 miles northwest	A. & M. College of Texas	F. Hull	do.	1918	417	6	--
d/ 6	27 miles northwest	do.	--	do.	1917	330	6	--
d/ 7	do.	do.	F. Hull	do.	1917	315	6	--
d/ 8	25½ miles northwest	Ed. Jackson	P. M. Shannon	do.	1929	1,056	--	--
d/ 9	22 miles northwest	do.	do.	do.	1929	1,102	--	--
10	19½ miles northwest	J. E. Holland	F. Hull	do.	1912	448	--	--
11	17 miles northwest	E. C. Beam	--	do.	--	430	--	--
d/ 12	15½ miles northwest	Sol Meyer	--	do.	--	318	--	--
13	13½ miles northwest	F. Cloudt	--	do.	--	316	--	--
d/ 14	22 miles northwest	Ed. Jackson	P. M. Shannon	do.	1930	2,317	--	--
d/ 15	22½ miles northwest	do.	Russell Oil Co.	do.	1929	960	--	--
d/ 16	21½ miles west	do.	P. M. Shannon	do.	1929	3,215	--	--
d/ 17	28 miles west	W. E. Whitehead	Magnolia Pet. Co.	do.	1928	2,190	--	--
18	18 miles west	F. Wittenberg	--	do.	--	320	--	--
19	14½ miles west	H. S. Davis	--	do.	1925	320	--	1
d/ 20	do.	L. Poorman	--	do.	1878	340	--	--
21	9½ miles west	Jess Hankins	--	do.	--	250	--	--
22	8 miles west	H. H. Hough	L. A. Placker	do.	1936	310	--	0.5
23	7 miles west	E. R. Burney	--	do.	1919	340	--	--
24	5 miles west	B. Sherrill	--	do.	1890	280	--	--

a/ Measuring point was usually top of casing, top of well curb or top of pipe clamp.

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

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

Records obtained by J. M. Frazier, Project Superintendent
 (Chemical analyses of water from these wells and springs 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	--	--	None	N	Oil test. See log.
2	390.1	Mar. 11, 1939	None	N	Do.
3	--	--	None	N	Do.
4	358.8	Jan. 30, 1939	None	N	See log.
5	378	e/	C, E, 7	D, S, I	Irrigates garden. Located at Experiment Station. No casing; 3-inch tubing.
6	320	e/	C, W	S	No casing; 3-inch tubing.
7	310	e/	C, W	S	No casing. Reported weak supply.
8	--	--	None	N	Oil test. See log; well not cased.
9	--	--	None	N	Do.
10	442	e/	C, W	D, S	No casing; 2½-inch tubing. "Whistling well."
11	--	--	C, W, G, 6	D, S	No casing. Reported 5 feet drawdown after pumping 3½ gallons a minute for several hours.
12	--	--	C, W	D, S	No casing. Reported strong supply.
13	302	e/	C, W	D, S	Do.
14	--	--	None	N	Oil test.
15	--	--	None	N	Do.
16	--	--	None	N	Oil test. See log.
17	--	--	None	N	Do.
18	285	e/	C, W	D, S	No casing; reported weak supply.
19	280.1	Feb. 20, 1939	C, W, G, 3	D, S	No casing; reported strong supply.
20	279	e/	C, W	S	Do.
21	241	e/	C, W	D, S	Do.
22	264.8	Feb. 20, 1939	C, W	D, S	No casing. Reported strong supply; "Whistling well."
23	264	e/	C, W, G, 2½	D, S	Reported strong supply.
24	265	e/	C, W, G, 4	D, S	Do.

d/ No water sample collected for analysis.

e/ Water level reported.

f/ Weir measurement by project superintendent.

g/ Current meter measurement made by engineers of Geological Survey, U.S.D.I.

Records of wells and springs in Edwards County--Continued

No.	Distance from Rock-springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
25	3 $\frac{1}{4}$ miles southwest	L. Burney	--	Flat	--	340	--	--
26	9 $\frac{1}{2}$ miles northwest	F. A. Moody	--	do.	1898	359	--	1.3
27	15 miles northwest	Sol Meyer	-- Hull	do.	1936	420	--	--
28	7 miles northwest	S. J. Shanklin	--	Hill-side	1900	260	--	--
29	7 $\frac{1}{2}$ miles northwest	do.	W. Benskin	Flat	1914	370	--	--
33	8 $\frac{1}{2}$ miles northwest	F. A. Moody	--	do.	--	390	5 $\frac{1}{4}$	--
34	5 $\frac{1}{2}$ miles northwest	Troy Owens	L. A. Placker	do.	1927	400	--	--
35	7 $\frac{1}{2}$ miles north	F. A. Moody	--	do.	--	400	5 $\frac{1}{4}$	--
36	do.	John Harris	Geo. Hardesty	do.	1909	365	5 $\frac{1}{4}$	--
d/ 37	12 miles north	J. S. Peterson	--	do.	--	220	--	--
38	12 $\frac{1}{2}$ miles north	L. Babb	--	Hill-side	1908	280	--	--
d/ 39	14 miles north	F. Baker	--	Flat	1910	130	--	--
40	12 $\frac{1}{2}$ miles north	do.	--	Hill-side	1908	240	--	--
41	18 miles northeast	Sam Guthrie	--	Flat	1896	118	--	1
42	21 $\frac{1}{2}$ miles northeast	do.	--	do.	1893	71	--	1
d/ 43	19 miles northeast	do.	L. A. Placker	do.	1929	300	--	--
44	23 $\frac{1}{2}$ miles northeast	J. Deats	--	River bottoms	-- Spring		--	--
45	do.	do.	--	In draw	-- Spring		--	--
46	24 miles northeast	J. O. Tanner	--	Side of bluff	-- Spring		--	--
47	24 $\frac{1}{2}$ miles northeast	State of Texas	--	do.	-- Spring		--	--
d/ 50	26 miles northeast	W. W. Barker	-- Coleman	Hill-side	1908	180	--	--
d/ 51	27 $\frac{1}{2}$ miles northeast	Walsh McLean	--	In draw	-- Spring		--	--
d/ 52	26 miles northeast	W. Schreiner	--	Flat	--	80	--	--
53	25 $\frac{1}{2}$ miles northeast	do.	--	do.	1907	142	--	--

J. M. Frazier, Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
25	285	e/	C,W	D,S	No casing. One of three wells on ranch; all same depth.
26	344.1	Jan. 30, 1939	C,W	D,S	No casing; 3-inch tubing. "Whistling well."
27	412	e/	C,W	S	No casing; 3-inch tubing; reported strong supply.
28	254	e/	C,W,G, --	D,S	Reported strong supply.
29	265	e/	C,W	S	No casing; reported strong supply.
33	380	e/	C,W,G, 6	D,S	Iron casing to 20 feet.
34	305	e/	C,W	D,S	No casing; 3-inch tubing; reported strong supply.
35	385	e/	C,W	D,S	Cased to 20 feet.
36	360	e/	C,W	D,S	Iron casing.
37	180	e/	C,W	D,S	No casing; 3-inch tubing. "Headquarters well."
38	90	e/	C,W	D,S	No casing. Reported strong supply.
39	125	e/	C,W	S	Do.
40	236	e/	C,W,G, 1	D,S	Do.
41	58.6	Mar. 8, 1939	C,W	D,S	Do.
42	66.8	do.	C,W	D,S	No casing. Reported weak supply.
43	295	e/	C,W	S	Do.
44	Flows	Jan. 5, 1939	None	D,S	Measured flow 190 gallons a minute f/ from 10 to 15 openings in gravel. Temperature, 70° F. Equipped with hydraulic ram. Known as "Deats Spring."
45	Flows	Feb. 10, 1939	None	S	Measured flow, 70 gallons a minute f/ from two openings in limestone. Temperature, 68° F. Flows into
46	Flows	Feb. 22, 1939	None	D,S,I	Measured flow, 4,200 gallons a minute g/ from one opening in limestone. Temperature, 70° F. Flows over water wheel; develops 16 horsepower. Known as "Tanner Spring." South Llano River.
47	Flows	do.	None	N	Measured flow, 6,500 gallons a minute g/ from many openings in limestone in bank of South Llano River. Flows from two levels, about 12 feet apart. Known as
50	--	--	C,W	N	Flowed until about 1924. Now partially caved. "700 Springs."
51	Flows	Mar. 8, 1939	None	D,S,I	Measured flow, 9,740 gallons a minute from three openings in limestone. Temperature, 70° F. Supplies water for four fish ponds. Known as "Big Paint Springs." g/
52	65	e/	C,W	S	No casing. Reported strong supply.
53	120	e/	C,W	D,S	Do.

Records of wells and springs in Edwards County--Continued

No.	Distance from Rock-springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
d/ 54	27 miles northeast	W. Schreiner	McMann Oil Co.	Flat	1929	3,897	--	--
d/ 55	20 miles east	Mrs. S. A. Hatch	Plateau Oil Co.	do.	1937	5,160	--	--
56	25½ miles east	V. B. Snodgrass	--	Near draw	1898	180	--	--
57	26 miles east	E. E. Morris	Elmo Newton	Flat	1914	266	--	--
58	25 miles east	R. H. Morris	--	do.	1894	100	--	--
d/ 59	26 miles east	A. H. Murchison	--	do.	1929	250	--	--
d/ 60	24½ miles northeast	do.	--	do.	1890	120	--	--
d/ 61	20½ miles northeast	Mamie Rigsby	Dan Auld	do.	1937	3,952	--	--
62	14½ miles east	O. Q. Marshall	L. A. Placker	do.	1919	400	--	--
d/ 63	13½ miles east	S. D. Peterson	X. K. Stout	do.	1927	2,440	--	--
d/ 64	do.	do.	do.	do.	1927	4,410	--	--
d/ 65	14 miles east	do.	Transcontinental Oil Co.	do.	1919	3,962	10	--
d/ 66	14 miles northeast	do.	J. Dalglish	do.	1930	5,206	--	--
67	10½ miles northeast	L. W. Hyde	L. A. Placker	do.	1907	400	--	--
68	9 miles northeast	-- Peterson Est.	--	do.	--	400	--	0.5
d/ 69	9½ miles northeast	T. Brown	--	do.	1887	220	--	--
d/ 72	6½ miles northeast	Ray Moody	--	Hill-side	1910	360	--	--
73	7½ miles northeast	do.	--	Flat	1888	214	--	1
74	5½ miles northeast	B. Epperson	--	do.	1889	260	--	1
75	5 miles northeast	F. D. Sweeten	--	do.	--	422	--	1
76	2½ miles northeast	B. Epperson	--	do.	1898	421	--	1
77	1½ miles northeast	R. Ross	--	do.	--	420	--	2
78	1 mile east	T. B. Riggs	--	do.	--	146	--	2
79	¾ mile northeast	Anna Hough	--	In draw	--	Spring	--	--
80	¾ mile north	Anna Miller	--	Flat	1880	425	--	--
81	1 mile northwest	J. W. Babb	--	do.	1917	428	--	1.7

J. M. Frazier, Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
54	325	e/	None	N	Oil test. See log.
55	--	--	None	N	Do.
56	165	e/	C, W	D, S	Located near Big Paint Draw.
57	240	e/	C, W	D, S	No casing; reported strong supply.
58	92	e/	C, W	D, S	Do.
59	240	e/	C, W	S	No casing.
60	98	e/	C, W	D, S	Reported strong supply.
61	--	--	None	N	Oil test. See log.
62	380	e/	C, W	D, S	No casing; reported strong supply.
63	--	--	None	N	Oil test. See log.
64	--	--	None	N	Do.
65	320	e/	None	N	Do.
66	389	e/	None	N	Do.
67	380	e/	C, W	D, S	No casing. Reported strong supply.
68	388.1	Feb. 14, 1939	C, W, G, 4	D, S	Do.
69	200	e/	C, W	D, S	Do.
72	--	--	C, W	S	Do.
73	196.9	Feb. 24, 1939	C, W	D, S	Do.
74	244.2	do.	C, W	S	U. S. G. S. bench mark 300 yards east of well: altitude, 2,199.95 feet.
75	411.8	Feb. 14, 1939	C, W	D, S	Reported strong supply.
76	412.5	Feb. 24, 1939	C, W	D, S	No casing. Reported strong supply.
77	412.1	Feb. 14, 1939	C, W	D, S	Do.
78	109.5	do.	C, W	D, S	No casing. Reported weak supply.
79	Flows	Mar. 9, 1939	--	S	Estimated flow, 1 gallon a minute from one opening in limestone. Temperature, 62° F. Reported heavier flow in past. Known as "Rock Spring"; city named after it.
80	415	e/	C, W, G, 1½	D, S	Reported first well drilled near Rocksprings.
81	421.7	Jan. 30, 1939	C, W, G, 3	D, S	No casing; 3-inch tubing.

Records of wells and springs in Edwards County--Continued

No.	Distance from Rock-springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
82	2 $\frac{1}{2}$ miles northwest	R. C. Babb	--	Flat	--	400	--	--
83	3 $\frac{1}{2}$ miles northwest	do.	L. A. Placker	do.	1931	412	--	--
84	2 $\frac{1}{2}$ miles west	H. Rudasill	-- Zummalot	do.	1914	410	--	--
<u>d/</u> 87	In Rock Springs	City of Rock Springs	Layne-Texas Co.	Level	1931	600	10	2.0
<u>d/</u> 87a	do.	do.	--	do.	Old	500	8	--
<u>d/</u> 87b	do.	do.	--	do.	Old	475	6	2.0
<u>d/</u> 87c	do.	do.	--	do.	Old	475	6	2.0
<u>d/</u> 87d	do.	do.	-- Placuar	do.	Old	475	8	--
90	1 $\frac{1}{2}$ miles south	W. C. Strackbein	--	Flat	1887	361	--	0.8
<u>d/</u> 91	2 $\frac{1}{2}$ miles southeast	W. A. Dismukes	--	Hilltop	1890	382	--	--
<u>d/</u> 92	2 $\frac{3}{4}$ miles southeast	E. S. Young	-- Jones	Flat	1909	440	--	0.8
<u>d/</u> 93	3 $\frac{1}{2}$ miles south	do.	do.	do.	1904	380	--	1
<u>d/</u> 94	6 miles southeast	-- Bacon Est.	--	Hillside	1912	200	--	--
<u>d/</u> 95	7 miles southeast	do.	--	Flat	--	200	--	--
96	7 miles east	C. V. Whitworth	--	do.	--	255	--	0
<u>d/</u> 97	do.	M. O. Grooms	--	In draw	-- Spring		--	--
98	8 $\frac{1}{2}$ miles east	C. H. Gilmer	--	Side of bluff	-- Spring		--	--
100	9 miles east	do.	--	Creek bottoms	-- Spring		--	--
<u>d/</u> 101	do.	M. O. Grooms	--	Base of hill	--	22	--	--
102	11 $\frac{1}{2}$ miles east	J. F. Jenkins	--	Flat	1918	400	--	--
103	11 miles east	Peterson & Hyde	--	In draw	-- Spring		--	--
<u>d/</u> 104	11 $\frac{1}{2}$ miles east	M. O. Grooms	--	do.	-- Spring		--	--
<u>d/</u> 105	12 miles east	do.	--	do.	-- Spring		--	--

J. M. Frazier, Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
82	397	e/	C, W	S	Rock tank near well.
83	407	e/	C, W	D, S	Reported strong supply.
84	390	e/	C, W, G, --	D, S	No casing; 2 $\frac{1}{2}$ -inch tubing. "Whistling well."
87	430	e/	C, E, 7 $\frac{1}{2}$	P	"Layne well".
87a	--	--	C, O, 40		"North well".
87b	425.8	Nov. 4, 1935	C, O, 40	P	"Middle well".
87c	425.8	do.	C, O, 40	P	"South well".
87d	--	--	C, O, 40	P	"West well."
90	343.1	Mar. 9, 1939	C, W	D, S	No casing. Reported strong supply.
91	344	e/	C, W	D, S	Do.
92	399.9	Mar. 9, 1939	C, W	D, S	Do.
93	340.6	do.	C, W	S	Do.
94	160	e/	C, W	D, S	Do.
95	165	e/	C, W	D, S	Reported strong supply.
96	250	Mar. 4, 1939	None	N	Sink; opening 41 feet by 58 feet; known as "Devil's Sink Hole." Stream 24 feet wide flows very slowly from northwest to southeast across bottom of cave. "Mountain" in center of cave 100 feet in height.
97	Flows	Jan. 17, 1939	None	S	Measured flow, 81 gallons a minute f/ from two openings in limestone. Temperature, 66° F. Flows to Hackberry Creek. Known as "Cade Spring."
98	Flows	Jan. 6, 1939	None	S	Measured flow, 99 gallons a minute f/ from six openings in limestone. Reported fluctuates with seasons.
100	Flows	Feb. 9, 1939	None	D, S, I	Measured flow, 1,100 gallons a minute f/ from two openings in limestone. Temperature, 70° F. Known as "Benskin Springs."
101	19	e/	C, W	D, S	No casing. Reported strong supply.
102	393.	e/	C, W	D, S	Do.
103	Flows	Feb. 8, 1939	None	D, S	Measured flow, 198 gallons a minute f/ from two openings in limestone. Temperature, 70° F. Located at head of Lane Draw; flows into Hackberry Creek. Known
104	Flows	Feb. 22, 1939	None	S	Reported flow, 15 gallons a minute f/ as "Lane Spring." from two openings in limestone. Temperature, 68° F.
105	Flows	do.	None	S	Reported flow, 18 gallons a minute f/ from one opening in limestone. Temperature, 70° F. Known as "Kent Spring."

Records of wells and springs in Edwards County--Continued

No.	Distance from Rock-springs	Owner	Driller	Topo-graphic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) ^{a/}
d/106	12 miles east	M. O. Grooms	--	In draw	--	Spring	--	--
d/107	7½ miles east	do.	--	Creek bottoms	--	25	--	3
108	8 miles east	W. T. Whittle	--	do.	--	27	48	0
109	9 miles east	B. W. Merritt	--	do.	1912	25	--	1
110	14½ miles southeast	Dan Caldwell	--	In draw	--	Spring	--	--
111	15 miles southeast	A. L. Ray	--	River bottoms	--	Spring	--	--
d/112	11½ miles southeast	G. Custer	--	In draw	--	Spring	--	--
113	9½ miles southeast	do.	--	Hill-side	1909	150	--	--
114	7 miles southeast	C. A. Duncan	--	Flat	1880	350	--	--
d/115	8 miles southeast	E. Adams	--	Creek bottoms	--	Spring	--	--
116	10½ miles southeast	L. McFerrin	--	In draw	--	Spring	--	--
117	11 miles southeast	do.	--	Creek bottoms	--	Spring	--	--
118	10½ miles southeast	do.	--	do.	--	Spring	--	--
119	13 miles southeast	L. A. Fields	--	Base of hill	1894	35	--	3
d/120	14 miles southeast	B. J. Stewart	Paul Teas	Hill-side	1935	5,270	--	--
d/121	do.	do.	--	Creek bottoms	1912	28	--	0
122	17½ miles southeast	A. P. Allison	--	In draw	--	Spring	--	--
123	16 miles southeast	Joe Woods	--	Creek bottoms	1909	120	--	--
124	do.	State of Texas	--	do.	--	Spring	--	--
d/128	18 miles southeast	S. B. Rainey	--	Flat	1912	90	--	--
d/129	20 miles southeast	do.	Gale Oil Co.	Hill-side	1928	4,005	--	--
130	19½ miles southeast	Bessie Jernigan	--	do.	--	Spring	--	--

a/ Measuring point was usually top of casing, top of well curb or top of pipe clamp.

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

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

J. M. Frazier, Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
106	Flows	Feb. 22, 1939	None	S	Reported flow, 22 gallons a minute from two openings in limestone. Temperature, 70° F. Known as "Hawker
107	24.1	Jan. 17, 1939	B,H	D	Dug well. Reported weak supply from gravel. Spring."
108	19.5	do.	C,W,G, 1	D,S,I	Dug well. Wood casing, surface to 10 feet. Irrigates garden. Reported strong supply from gravel.
109	23.1	do.	C,W	D,S	Dug well. Reported weak supply from gravel.
110	Flows	Feb. 23, 1939	None	S	Measured flow, 50 gallons a minute f/ from two openings in limestone. Temperature, 70° F.
111	Flows	Feb. 27, 1939	None	S	Measured flow, 1,600 gallons a minute f/ from three openings in limestone. Temperature, 68° F. Flows into East Branch of Nueces River. Known as "McCurdy
112	Flows	Jan. 2, 1939	None	D,S	Reported flow 2 gallons a minute from one Spring." seep in limestone. Known as "Broomfield Spring."
113	144	e/	C,W	D,S	No casing. Reported strong supply.
114	340	e/	C,W	D,S	Do.
115	Flows	Jan. 18, 1939	None	S	Reported flow, 25 gallons a minute from one seep in limestone. Temperature, 67° F. Located at head of Polecat Creek near large Indian mound. Known as "Pole-
116	Flows	Jan. 16, 1939	None	S	Measured flow, 169 gallons a minute f/ Spring." from one opening in limestone. Temperature, 66° F. Located at head of Pulliam Creek. Known as "Pulliam
117	Flows	Jan. 18, 1939	None	S	Measured flow, 490 gallons a minute f/ from Spring." five openings in limestone. Temperature, 68° F. Flows
118	Flows	do.	None	S	Measured flow, 410 gallons a minute into Polecat Creek f/ from four openings in limestone. Temperature, 70°
119	23.1	Mar. 9, 1939	C,W	D,S	Dug well. Reported F. Flows into Polecat Creek. strong supply from limestone.
120	--	--	None	N	Oil test. Reported altitude, 1,851 feet. See log.
121	26.7	Mar. 9, 1939	B,H	D,S	Dug well. Reported weak supply from limestone.
122	Flows	Feb. 3, 1939	None	D,S	Reported flow, 6 gallons a minute from two openings in limestone. Temperature, 62° F. Flows into Pulliam
123	40	e/	C,W	D,S	No casing. Reported strong supply. Creek.
124	Flows	Jan. 2, 1939	None	D,S	Reported flow, 5 gallons a minute from one opening in limestone. Temperature, 67° F. Known as "Woods Spring.
128	40	e/	C,W	D,S	No casing. Reported strong supply.
129	--	--	None	N	Oil test. Reported altitude, 1,773 feet. See log.
130	Flows	Feb. 3, 1939	None	D,S	Reported flow, 3 gallons a minute from one seep in limestone. Temperature, 70° F.

d/ No water sample collected for analysis.

e/ Water level reported.

f/ Weir measurement by project superintendent

g/ Current meter measurement made by engineers of Geological Survey, U.S.D.I.

Records of wells and springs in Edwards County--Continued

No.	Distance from Rock-springs	Owner	Driller	Topo-graphic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
132	23 miles southeast	J. C. Pope	--	River bottoms	--	22	36	2
133	23½ miles south	R. Kirchner	--	Creek bottoms	-- Spring	--	--	--
135	24 miles south	E. D. Custer	--	In draw	-- Spring	--	--	--
d/136	23 miles south	Kirchner & Powers	--	Creek bottoms	-- Spring	--	--	--
d/137	do.	do.	--	do.	-- Spring	--	--	--
d/138	21 miles south	T. B. Phillips	--	do.	-- Spring	--	--	--
139	20 miles south	W. L. Moody, Jr.	--	do.	-- Spring	--	--	--
d/140	19½ miles south	W. L. Moody, Sr.	--	do.	-- Spring	--	--	--
141	16½ miles south	E. Guenther	--	In draw	-- Spring	--	--	--
142	17½ miles south	do.	--	Creek bottoms	-- Spring	--	--	--
143	15 miles south	Wagner & Guenther	--	Base of cliff	-- Spring	--	--	--
144	12 miles south	do.	--	do.	-- Spring	--	--	--
145	9½ miles southwest	L. W. Wheeler	--	Hill-side	--	300	--	--
146	11 miles southwest	B. W. Weaver	--	Flat	--	--	--	--
d/147	do.	M. Z. Weaver	--	do.	1889	240	--	--
148	12 miles southwest	L. L. Ellis	--	do.	1911	220	--	--
d/149	15½ miles southwest	G. W. Ellis	--	do.	1909	120	--	--
d/150	do.	M. Kirkland	--	Hill-side	1900	200	--	--
151	15 miles southwest	do.	--	Base of hill	1880	125	--	--
152	16 miles southwest	H. Lynn	--	Flat	1888	150	--	--
d/153	16½ miles southwest	do.	--	Creek bottoms	--	80	--	--
154	19 miles southwest	L. Thurman	--	do.	1889	80	--	0
155	24 miles southwest	J. G. Blackmon	--	Base of cliff	-- Spring	--	--	--

J. M. Frazier, Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
132	17	Jan. 2, 1939	C,E, 2	D,S,P	Dug well; rock curb and casing. Supplies town of Barksdale.
133	Flows	Jan. 26, 1939	None	D,S	Measured flow, 140 gallons a minute f/ from two openings in limestone. Temperature, 65° F. Known as
135	Flows	Jan. 25, 1939	None	S	Measured flow, 135 gallons a minute f/ from two openings in limestone. Temperature, 70° F. Located at old hunting lodge. Known as "Kirchner Spring."
136	Flows	Jan. 26, 1939	None	S	Reported flow, 15 gallons a minute f/ from two openings in limestone. Temperature, 68° F. Known as "Custer Spring."
137	Flows	do.	None	S	Measured flow, 60 gallons a minute f/ from one opening in limestone. Temperature, 68° F. Disappears into gravel after flowing short distance. Located near Indian mound. Known as "Screech Spring."
138	Flows	Feb. 2, 1939	None	S	Measured flow, 390 gallons a minute f/ from Spring. seeps along bank of Spring Creek. Temperature, 70° F.
139	Flows	do.	None	S	Reported flow, 50 gallons a minute f/ from one opening in limestone. Temperature, 70° F. Supplies water for three ranches. Flows into Spring Creek.
140	Flows	do.	None	S	Measured flow, 35 gallons a minute f/ from one opening in limestone. Temperature, 70° F. Flows into Spring
141	Flows	Jan. 24, 1939	None	D,S	Measured flow, 35 gallons a minute f/ from four openings in limestone. Temperature, 72° F. Flows into Spring Creek.
142	Flows	Jan. 23, 1939	None	D,S	Measured flow, 410 gallons a minute f/ from two openings in limestone. Temperature, 70° F. Flows into Spring Creek.
143	Flows	do.	None	S	Measured flow, 1,000 gallons a minute f/ from 14 openings in limestone. Temperature, 70° F. Known as "Dan Taylor Spring." Located on Paint Bluff
144	Flows	Jan. 20, 1939	None	S	Measured flow, 1,500 gallons a minute f/ from three openings in limestone. Temperature, 70° F. Draw; known as "Paint Bluff Spring." Known as "Dan Roberts
145	368	e/	C,W	D,S	No casing. Reported weak supply. Spring."
146	--	--	C,W	D,S	Do.
147	236	e/	C,W	D,S	Do.
148	174	e/	C,W	D,S	No casing. Reported strong supply.
149	100	e/	C,W	D,S	Do.
150	150	e/	C,W	S	Do.
151	70	e/	C,W	D,S	Do.
152	140	e/	C,W	D,S	Do.
153	58	e/	C,W	S	No casing. Reported weak supply.
154	20.8	Feb. 21, 1939	C,W	D,S	No casing. Reported strong supply.
155	Flows	Jan. 3, 1939	None	N	Reported flow, 10 gallons a minute from one opening in limestone. Temperature, 70° F. Drains into West Branch of Nueces River. Known as "Pipe Spring."

Records of wells and springs in Edwards County--Continued

No.	Distance from Rock-springs	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
d/157	20½ miles southwest	J. Thurman	--	Creek bottoms	-- Spring	--	--	--
158	21 miles southwest	do.	--	do.	-- Spring	--	--	--
159	do.	do.	--	Hill-side	--	101	--	0
d/160	21½ miles southwest	J. Mayes	--	Creek bottoms	-- Spring	--	--	--
d/161	20½ miles southwest	L. Rust	Empire Gas & Fuel Co.	Flat	1921	3,635	--	--
162	16½ miles southwest	N. J. Jernigan	--	do.	--	255	--	1
163	25½ miles southwest	O. L. McNealy	--	do.	1927	308	--	--
d/164	25 miles southwest	do.	--	Creek bottoms	--	310	--	--
d/165	26 miles southwest	J. B. Blackmon	--	In draw	-- Spring	--	--	--
166	25½ miles southwest	O. L. McNealy	--	do.	-- Spring	--	--	--
167	26 miles southwest	E. T. Rucker	--	Flat	--	--	--	--
d/168	25½ miles west	C. B. Wardlaw	A. M. Griffith	do.	1929	3,002	--	--
d/169	28½ miles southwest	J. Rosenow	--	Top of ridge	1912	500	--	--
170	29½ miles southwest	do.	--	Flat	1914	510	--	--
171	31 miles southwest	York Newman	--	Hill-side	--	390	--	--
172	31½ miles southwest	W. A. Varga	-- Daniels	Flat	1929	510	--	--

a/ Measuring point was usually top of casing, top of well curb or top of pipe clamp.

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

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

J. M. Frazier, Project Superintendent

No.	Water level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (ft.)	Date of measurement			
157	Flows	Feb. 6, 1939	None	S	Measured flow, 365 gallons a minute <u>f/</u> from one opening in limestone. Temperature, 70° F. Located at head of West Branch of Nueces River. Known as "Kick-
158	Flows	do.	None	D,S	Measured flow, 1,000 gallons <u>apoo Spring.</u> Number 1. a minute <u>f/</u> from two openings in limestone. Temperature, 68° F. Known as Kickapoo Spring. Number 2.
159	36.5	do.	C,W	D,S	Located on slight hill between two openings of Kickapoo Spring.
160	Flows	Jan. 3, 1939	None	D,S	Flows into bottom of pool in Nueces River. Temperature, 70° F. Known as Kickapoo Spring. Number 3.
161	--	--	None	N	Oil test. Reported altitude, 1,815 feet. See log.
162	244.9	Feb. 1, 1939	C,W	D,S	Reported strong supply.
163	268	<u>e/</u>	C,W	D,S	No casing. Reported weak supply.
164	265	<u>e/</u>	C,W	S	Do.
165	Flows	Feb. 7, 1939	None	S	Reported flow, 18 gallons a minute from one opening in limestone. Temperature, 68° F.
166	Flows	do.	None	S	Measured flow, 26 gallons a minute <u>f/</u> from one opening in limestone. Temperature, 68° F.
167	--	--	C,W	D,S,I	Reported strong supply.
168	--	--	None	N	Oil test. Reported altitude, 2,710 feet. See log.
169	478	<u>e/</u>	C,W	S	
170	480	<u>e/</u>	C,W	D,S	No casing. Reported weak supply.
171	365	<u>e/</u>	C,W	D,S,P	Supplies town of Carta Valley. Reported strong supply.
172	455	<u>e/</u>	C,W	D	No casing. Reported strong supply.

d/ No water sample collected for analysis.

e/ Water level reported.

f/ Weir measurement by project superintendent.

g/ Current meter measurement made by engineers of Geological Survey, U.S.D.I.

Table of Drillers' Logs, Edwards County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 1</u>		
O. L. Williams, J. H. Taylor well 1, 30 miles northwest of Rocksprings.		
Lime - - - -	335	335
Water sand - - - -	5	340
Lime - - - -	160	500
Shale and lime - - - -	20	520
Oil sand - - - -	5	525
Brown lime - - - -	5	530
Blue shale - - - -	50	580
Sand and lime, oil - - - -	10	590
Blue shale - - - -	10	600
TOTAL DEPTH - - - -		600
CASING RECORD: 483 feet of 6-5/8-inch casing.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 2</u>		
O. L. Williams, Holman Est. well 2, 29 miles northwest of Rocksprings.		
Surface - - - -	4	4
White lime - - - -	36	40
Chalky lime - - - -	15	55
Hard white lime - - - -	15	70
Sandy lime - - - -	20	90
Blue shale - - - -	10	100
Hard white lime - - - -	20	120
Soft white lime - - - -	20	140
Chalk - - - -	18	158
Blue shale - - - -	4	162
Dry sand - - - -	3	165
Broken shale - - - -	5	170
Dry sand - - - -	5	175
Blue shale - - - -	25	200
Hard white lime - - - -	20	220
Gray lime - - - -	40	260
Broken shale - - - -	5	265
White lime - - - -	10	275
Sandy lime - - - -	20	295
Lime shells - - - -	5	300
Water sand - - - -	15	315
Chalky lime - - - -	20	335
Brown shale - - - -	5	340
Sand, hole full of water - - - -	50	390
Sandy lime - - - -	10	400
Soft gray lime - - - -	10	410
Hard gray lime - - - -	10	420
Sandy lime - - - -	20	440
Hard gray lime - - - -	18	458
Oil sand - - - -	15	473
Blue shale - - - -	19	492
Oil sand - - - -	8	500
Blue shale - - - -	81	581
Sandy lime - - - -	3	584
Blue shale - - - -	21	605
Sandy lime - - - -	10	615
Blue shale - - - -	15	630

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 2--Continued</u>		
Brown shale - - - -	18	648
Gray lime, gas - - - -	12	660
White lime - - - -	25	685
TOTAL DEPTH - - - -		1420
CASING RECORD: 415 feet of 8 1/4-inch and 650 feet of 6-5/8-inch casing.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 3</u>		
H. H. Sides, Paul Turney well 1, 26 1/2 miles northwest of Rocksprings.		
Yellow and gray lime with crevices - - - -	100	100
Gray lime - - - -	30	130
Yellow lime - - - -	10	140
Gray lime - - - -	10	150
Yellow lime - - - -	20	170
Gray lime - - - -	10	180
Yellow lime - - - -	10	190
Gray lime - - - -	30	220
Lime shale - - - -	10	230
Lime - - - -	10	240
Gray lime - - - -	10	250
Shale - - - -	20	270
Gray lime - - - -	10	280
Lime - - - -	10	290
Gray lime - - - -	10	300
Shale - - - -	10	310
Blue shale - - - -	10	320
Lime - - - -	5	325
Sand and shale - - - -	5	330
Blue shale and sand - - - -	5	335
Gray lime - - - -	25	360
Lime - - - -	10	370
Gray lime - - - -	10	380
Gray shale - - - -	10	390
Blue shale - - - -	20	410
Oil sand - - - -	10	420
Blue shale - - - -	5	425
Shale - - - -	15	440
Blue shale - - - -	20	460
Gray lime - - - -	10	470
Blue shale - - - -	50	520
Blue lime - - - -	10	530
Gray lime - - - -	10	540
Sand and blue shale - - - -	10	550
Lime - - - -	20	570
Gray lime - - - -	10	580
Lime - - - -	20	600
Lime sand - - - -	10	610
Gray lime - - - -	10	620
Gray shale - - - -	10	630
Gray lime - - - -	20	650
Sand and lime - - - -	30	680
Lime - - - -	10	690

(Continued on next page)

Table of Drillers' Logs, Edwards County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 3--Continued</u>		
Lime and sand - - - -	10	700
Gray lime - - - -	10	710
Sand - - - -	10	720
Dry sand - - - -	10	730
Sand - - - -	50	780
Sand and gravel - - - -	40	820
Blue shale - - - -	10	830
Sandy shale - - - -	10	840
Sandy gravel - - - -	10	850
Sandy lime - - - -	5	855
Gummy oil sand - - - -	5	860
Sandy shale - - - -	10	870
Sand and shale - - - -	10	880
Sandy shale - - - -	10	890
Shale - - - -	40	930
Sand and shale - - - -	10	940
Brown shale - - - -	10	950
Blue shale - - - -	10	960
Gray shale - - - -	10	970
Brown shale - - - -	10	980
Gray shale - - - -	10	990
Shale - - - -	13	1003
TOTAL DEPTH - - - -		1003
CASING RECORD: 520 feet of 6-inch casing.		

<u>Driller's log of well 4</u>		
Phillips Pet. Co., A. G. Holman well 2, 30 $\frac{1}{2}$ miles northwest of Rocksprings.		
Surface soil - - - -	18	18
Lime - - - -	22	40
Hard white lime - - - -	30	70
Hard brown lime - - - -	20	90
Gray lime - - - -	58	148
Soft yellow sand - - - -	12	160
Soft gray sand - - - -	30	190
Gray lime - - - -	10	200
Soft gray lime - - - -	30	230
Hard gray lime - - - -	20	250
Gray lime - - - -	20	270
Soft yellow lime - - - -	15	285
Lime - - - -	30	315
Hard lime, HFW 39' to 400'	20	335
Gray lime - - - -	85	420
Broken brown lime - - - -	20	440
Dark-colored lime - - - -	105	545
Sandy shale - - - -	12	557
Hard lime - - - -	3	560
Sandy shale - - - -	15	575
Shale - - - -	17	592
Lime - - - -	18	610
Gray shale - - - -	40	650
Lime - - - -	15	665
Shale and shells - - - -	20	685
Lime and shale - - - -	20	705

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 4--Continued</u>		
Blue shale - - - -	18	723
Gray lime - - - -	137	860
Dark-colored lime - - - -	40	900
Hard broken lime - - - -	15	915
Gray sand - - - -	10	925
Hard lime - - - -	15	940
Gray sand - - - -	15	955
Lime and shale - - - -	25	980
Blue shale - - - -	5	985
Gray sand - - - -	15	1000
Blue shale - - - -	20	1020
Dark-colored shale - - - -	8	1028
Dark-colored lime - - - -	4	1032
Dark-colored shale - - - -	23	1055
Dark-colored lime - - - -	10	1065
Dark-colored shale - - - -	5	1070
Dark-colored shale and shells - - - -	50	1120
Dark-colored shale - - - -	20	1140
Hard dark-colored lime - - - -	15	1155
Shale and shells - - - -	60	1215
Slate and shells - - - -	40	1255
Gray lime - - - -	15	1270
Shale and shells - - - -	55	1325
TOTAL DEPTH - - - -		8125
CASING RECORD: 429 feet of 20-inch; 829 feet of 15 $\frac{1}{2}$ -inch; 2,359 feet of 13-3/8-inch; 3,695 feet of 10 $\frac{3}{4}$ -inch; 4,039 feet of 8-5/8-inch and 6,631 feet of 6-5/8-inch casing.		

<u>Driller's log of well 8</u>		
P. M. Shannon, Ed. Jackson well 4, 25 $\frac{1}{2}$ miles northwest of Rocksprings.		
Flinty, dark-brown limestone	100	100
Porous lime, water - - - -	265	365
Flinty limestone - - - -	165	530
Alternating hard and soft limestone - - - - 370 900		
Sandy limestone - - - -	156	1056
TOTAL DEPTH - - - -		1056

<u>Driller's log of well 9</u>		
P. M. Shannon, Ed. Jackson well 3, 22 miles northwest of Rocksprings.		
Flinty limestone - - - -	510	510
Soft limestone - - - -	390	900
Sand and mud, water at 1,102 202		1102
TOTAL DEPTH - - - -		1102

<u>Driller's log of well 16</u>		
P. M. Shannon, Ed. Jackson well 1, 21 $\frac{1}{2}$ miles west of Rocksprings.		
(Continued on next page)		

Table of Drillers' Logs, Edwards County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 16--Continued</u>		
Limestone - - - -	180	180
Sand - - - -	80	260
Sea mud - - - -	10	270
Sea mud, cavity - - - -	125	395
Mud and soft lime - - - -	115	510
Sand - - - -	80	590
Caving mud and lime - - - -	88	678
Lime - - - -	62	740
Caving sand and lime - - - -	9	749
Sand and sandy lime - - - -	36	785
Sand, sandy lime, water pebbles, show of oil - - - -	115	900
Not given - - - -	30	930
Blue sand - - - -	15	945
Shale and slate - - - -	115	1060
Shale - - - -	140	1200
Sand - - - -	6	1206
Slate - - - -	88	1294
TOTAL DEPTH - - - -		3215

<u>Driller's log of well 17</u>		
Magnolia Petroleum Corp., W. E. Whitehead well 2, 28 miles west of Rocksprings.		
Hard lime - - - -	280	280
Blue slate - - - -	73	353
Lime shells - - - -	302	655
Lime - - - -	68	723
White slate - - - -	10	733
White lime - - - -	17	750
Gray sand - - - -	32	782
Blue slate - - - -	6	788
Gray sand - - - -	140	928
Blue shale - - - -	7	935
Red shale - - - -	25	960
Lime shells - - - -	870	1830
Gray sand - - - -	205	2035
Lime shells - - - -	155	2190
TOTAL DEPTH - - - -		2190
CASING RECORD: 348 feet of 12 $\frac{1}{2}$ -inch and 1,044 feet of 10-inch casing.		

<u>Driller's log of well 54</u>		
McMan Oil & Gas Co., W. Schreiner well 1, 27 miles northeast of Rocksprings.		
Lime, water - - - -	325	325
Sandy lime - - - -	40	365
Lime - - - -	130	495
Blue mud - - - -	80	575
Sandy lime - - - -	10	585
Blue mud - - - -	75	660
Lime - - - -	10	670
Blue mud - - - -	60	730
Sandy gray shale - - - -	20	750
Broken lime - - - -	15	765
Light-colored shale - - - -	75	840

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 54--Continued</u>		
Blue mud - - - -	15	855
Light-colored shale - - - -	30	885
Blue mud - - - -	40	925
Lime - - - -	10	935
Coarse-grained sand - - - -	5	940
Sand - - - -	15	955
Red mud - - - -	7	962
Sandy lime - - - -	13	975
Heavy sand - - - -	20	995
Gravel - - - -	10	1005
Sand - - - -	45	1050
Blue shale - - - -	5	1055
Red rock - - - -	10	1065
Sand - - - -	5	1070
Red rock - - - -	15	1085
Sand lime - - - -	45	1130
Sand - - - -	20	1150
Lime - - - -	10	1160
Red mud - - - -	15	1175
Blue shale - - - -	25	1200
Red mud - - - -	40	1240
Blue shale - - - -	40	1280
Dark-colored shale - - - -	330	1610
Sandy dark-colored shale - - - -	75	1685
Sand - - - -	30	1715
Sandy dark-colored shale - - - -	55	1770
Blue shale - - - -	705	2475
Sandy shale - - - -	10	2485
Blue shale - - - -	298	2783
Lime - - - -	2	2785
Blue slate - - - -	375	3160
Brown sand - - - -	10	3170
Sand - - - -	10	3180
Lime - - - -	10	3190
Blue shale - - - -	255	3445
Lime - - - -	10	3455
Blue shale - - - -	5	3460
Lime - - - -	10	3470
Blue shale - - - -	130	3600
Hard lime - - - -	190	3790
Blue slate - - - -	10	3800
Lime - - - -	65	3865
Sandy lime - - - -	15	3880
Sand - - - -	17	3897
TOTAL DEPTH - - - -		3897
CASING RECORD: 494 feet of 15 $\frac{1}{2}$ -inch; 1,090 feet of 12 $\frac{1}{2}$ -inch; 1,649 feet of 10-inch; 3,088 feet of 8 $\frac{1}{4}$ -inch and 3,863 feet of 6-5/8-inch casing.		

<u>Driller's log of well 55</u>		
Plateau Oil Co., Mrs. S. A. Hatch well 1, 20 miles east of Rocksprings.		
Lime - - - -	290	290
Gravel - - - -	20	310

(Continued on next page)

Table of Drillers' Logs, Edwards County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 55--Continued</u>		
Brown lime - - - -	8	318
Lime - - - -	177	495
Blue shale - - - -	133	628
Lime - - - -	112	740
Brown lime - - - -	20	760
Lime - - - -	20	780
Gray shale - - - -	25	805
Shale and lime - - - -	80	885
Lime shells and shale - - - -	70	955
Lime - - - -	15	970
Gray shale - - - -	10	980
Water sand - - - -	10	990
Hole full of water - - - -	15	1005
Hard sand - - - -	25	1030
Red rock - - - -	10	1040
Sand - - - -	20	1060
Sand, conglomerate - - - -	25	1085
Red rock and sand - - - -	15	1100
Red rock - - - -	10	1110
Broken lime - - - -	30	1140
Blue mud - - - -	22	1162
Lime - - - -	3	1165
Sand - - - -	5	1170
Red rock - - - -	54	1224
Sand - - - -	18	1242
Red rock - - - -	18	1260
Red beds - - - -	40	1300
Brown shale - - - -	20	1320
Red, white and blue shale - - - -	10	1330
Blue slate - - - -	25	1355
Blue and brown shale - - - -	20	1375
Blue shale - - - -	55	1430
Gray shale - - - -	10	1440
Shale - - - -	10	1450
Gray lime - - - -	13	1463
Blue shale - - - -	12	1475
Lime - - - -	10	1485
Blue shale - - - -	45	1530
TOTAL DEPTH - - - -		5160
CASING RECORD: 750 feet of 12 $\frac{1}{2}$ -inch; 350 feet of 10-inch; 1,300 feet of 8-5/8- inch and 1,900 feet of 6-5/8-inch casing.		

<u>Driller's log of well 61</u>		
Dan Auld, Mamie Rigsby well 1, 20 $\frac{1}{2}$ miles northeast of Rocksprings.		
Lime - - - -	290	290
Lime, hole full of water - - - -	60	350
Lime - - - -	95	445
Shale - - - -	20	465
Lime - - - -	5	470
Blue shale - - - -	55	525
Shale - - - -	20	545
Blue shale - - - -	55	600
Shale - - - -	20	620

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 61--Continued</u>		
Shale and lime - - - -	20	640
Gray lime - - - -	20	660
Lime and shale - - - -	30	690
Lime - - - -	100	790
Lime and shale - - - -	55	845
Lime - - - -	15	860
Shale - - - -	5	865
Sand, water at 875 feet - - - -	25	890
Sand - - - -	10	900
Shale - - - -	25	925
Sand and shale - - - -	15	940
Brown shale - - - -	15	955
Shale - - - -	25	980
Hard lime - - - -	10	990
Shale - - - -	10	1000
Lime - - - -	5	1005
Shale - - - -	15	1020
Lime - - - -	25	1045
Shale - - - -	315	1360
Hard lime - - - -	15	1375
Shale - - - -	50	1425
Lime - - - -	5	1430
Shale - - - -	245	1675
Sand - - - -	35	1710
Shale - - - -	80	1790
Water sand - - - -	20	1810
Shale - - - -	100	1910
TOTAL DEPTH - - - -		3952
CASING RECORD: 660 feet of 12 $\frac{1}{2}$ -inch; 975 feet of 10-inch and 3,040 feet of 8-5/8-inch casing.		

<u>Driller's log of well 63</u>		
X. K. Stout, Sid Peterson well 1, 13 $\frac{1}{2}$ miles east of Rocksprings.		
White water sand - - - -	230	230
Lime - - - -	5	235
Water sand - - - -	12	247
Lime, fresh water at 375 feet - - - - 153 400		
Broken lime - - - -	130	530
Green shale - - - -	60	590
Gray shale - - - -	105	695
Gray shale and lime shells - - - - 30 725		
Broken lime - - - -	325	1050
Fresh-water sand - - - -	60	1110
Broken sand - - - -	25	1135
Yellow clay - - - -	25	1160
Gray shale - - - -	20	1180
Red and green shale - - - -	50	1230
Mixed rotten shale - - - -	68	1298
Sandy black shale - - - -	122	1420
Sandy gray shale - - - -	240	1660
(Continued on next page)		

Table of Drillers' Logs, Edwards County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 63--Continued</u>		
Broken sand - - -	40	1700
Sandy shale and shells -	45	1745
Brownish-black shale -	45	1790
Lime shells - - -	10	1800
Brownish-black shale -	200	2000
Hard gray sand, water at 2025 feet - - -	65	2065
Gray sand - - -	40	2105
Black shale - - -	155	2260
Lime shells - - -	5	2265
Black shale - - -	135	2400
Black sand and shale, water at 2430 feet - - -	40	2440
TOTAL DEPTH - - -		2440
CASING RECORD: 700 feet of 10-inch; 1,300 feet of 8 $\frac{1}{4}$ -inch and 2,320 feet of 6-5/8-inch casing.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 64</u>		
X. K. Stout, S. D. Peterson well 2, 13 $\frac{1}{2}$ miles east of Rocksprings.		
Lime - - - - -	550	550
Gray shale - - - -	200	750
White shale - - - -	5	755
Limestone - - - -	5	760
Sandy shale - - - -	85	845
White slate and shells -	25	870
Broken limestone - - -	130	1000
Shale - - - - -	55	1055
Water sand - - - - -	20	1075
Limestone - - - - -	25	1100
Sand - - - - -	8	1108
Blue shale - - - - -	42	1150
Yellow shale - - - - -	13	1163
Brown shale - - - - -	22	1185
Red shale - - - - -	5	1190
Brown and yellow shale -	85	1275
Black shale - - - - -	600	1875
Gray sand and shell - -	75	1950
Black shale - - - - -	78	2028
Black and gray sand, water at 2133 feet - - -	222	2250
Soft black slate - - -	185	2435
Sand - - - - -	78	2513
TOTAL DEPTH - - -		4410

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 65</u>		
Transcontinental Oil Co., S. D. Peterson well 1, 14 miles east of Rocksprings.		
Limestone - - - - -	310	310
Lime - - - - -	10	320
Limestone - - - - -	180	500
Shale light green - - -	180	680
Shale - - - - -	290	970
Water sand - - - - -	52	1022

	Thickness (feet)	Depth (feet)
Sand and shells - - -	33	1075
Shale - - - - -	33	1108
Shale and reddish-colored sand - - - - -	32	1140
Black shale - - - - -	70	1210
Shell - - - - -	4	1214
Black shale - - - - -	56	1270
Black slate - - - - -	225	1495
Black shale - - - - -	432	1927
Gritty lime - - - - -	10	1937
Dark-colored slate - - -	113	2050
Dark-colored shale - - -	410	2460
Slate - - - - -	110	2570
Slate and sand - - - -	60	2630
Slate - - - - -	60	2690
Sand and shale - - - -	240	2930
Dark-colored slate - - -	20	2950
Slate and sand - - - -	180	3130
Slate and grit - - - -	40	3170
Slate - - - - -	340	3510
Rotten shale - - - - -	80	3590
Shale - - - - -	120	3710
Shell - - - - -	3	3713
Slate and shale - - - -	97	3810
Shell - - - - -	4	3814
Slate - - - - -	21	3835
Sand - - - - -	105	3940
Slate - - - - -	22	3962
TOTAL DEPTH - - - - -		3962
CASING RECORD: 965 feet of 10-inch; 1,227 feet of 8 $\frac{1}{4}$ -inch and 2,570 feet of 6-5/8-inch casing.		

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 66</u>		
J. Dalglish, S. D. Peterson well 3, 14 miles northeast of Rocksprings.		
Lime, fresh water at 389 feet - - - - -	525	525
Broken slate - - - - -	19	544
Green shale - - - - -	119	663
Gray shale - - - - -	110	773
Broken lime - - - - -	41	814
White slate - - - - -	36	850
Broken lime - - - - -	50	900
Slate and lime shells - -	112	1012
Water sand - - - - -	28	1040
Red beds, sandy - - - -	55	1095
Red slate - - - - -	52	1147
Sand - - - - -	33	1180
Yellow slate - - - - -	75	1255
Dark slate - - - - -	45	1300
Sand - - - - -	25	1325
Black slate - - - - -	32	1357
Sandy gray lime - - - -	4	1361
Black slate - - - - -	319	1680

(Continued on next page)

Table of Drillers' Logs, Edwards County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 66--Continued</u>		
Gray lime - - - -	46	1726
Gray sand - - - -	39	1765
Black lime - - - -	40	1805
Sand - - - -	3	1808
Black slate - - - -	257	2065
Sandy slate - - - -	90	2155
Black slate - - - -	165	2320
Lime shell - - - -	5	2325
Sand - - - -	20	2345
Sandy shale - - - -	45	2390
Black slate - - - -	415	2805
Black shale, gritty - -	630	3435
Lime shell - - - -	5	3440
Black slate - - - -	75	3515
Lime shell - - - -	5	3520
Black slate - - - -	142	3662
Coarse-grained gray sand - - - -	8	3670
Black slate - - - -	18	3688
Hard gray lime - - - -	3	3691
Black slate - - - -	62	3753
Hard lime shell - - - -	7	3760
Black slate - - - -	110	3870
Sandy lime - - - -	8	3878
Sandy slate - - - -	11	3889
Sandy lime - - - -	6	3895
Sand and slate - - - -	10	3905
Sand - - - -	71	3976
Black slate and lime shell - - - -	8	3984
Lime shell - - - -	4	3988
Black slate - - - -	102	4090
White lime - - - -	140	4230
Sandy white lime - - -	80	4310
White lime - - - -	60	4370
Sandy brown lime - - -	85	4455
Brown lime - - - -	145	4600
Sandy brown lime, salt water - - - -	10	4610
White lime - - - -	102	4712
Sandy brown lime - - -	8	4720
Sandy gray lime - - - -	220	4940
White lime - - - -	20	4960
Sandy gray lime - - - -	40	5000
Brown lime - - - -	25	5025
Gray lime - - - -	181	5206
TOTAL DEPTH - - - -		5206

CASING RECORD: 770 feet of 12 $\frac{1}{2}$ -inch;
1,264 feet of 10-inch; 2,731 feet of 8 $\frac{1}{4}$ -
inch and 3,887 feet of 6-5/8-inch casing.

Driller's log of well 120
Paul Teas, et al, B. J. Stewart well 1,
14 miles southeast of Rocksprings.

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 121--Continued</u>		
Limestone - - - -	348	348
Gray shale and limestone	47	395
Lime - - - -	435	830
Sandy shale - - - -	145	975
Lime and shale - - - -	47	1022
Lime - - - -	28	1050
Shale and sand - - - -	20	1070
Hard brown lime - - - -	72	1142
Lime and shale - - - -	18	1160
Lime - - - -	40	1200
Shale and shells - - - -	32	1232
Shale and lime shells -	143	1375
Shale - - - -	100	1475
Broken lime - - - -	63	1538
Sandy lime - - - -	75	1613
Gray lime - - - -	92	1705
Sandy lime and pyrites -	46	1751
Shale and lime - - - -	54	1805
Broken lime - - - -	38	1843
Dark-colored shale - - -	4	1847
Black shale - - - -	53	1900
Sandy lime - - - -	17	1917
Hard shale and shells -	41	1958
Pyrites, white lime and shale - - - -	42	2000
Broken lime and shale -	46	2046
Black shale and pyritic lime shells - - - -	34	2080
Black shale and lime shells - - - -	67	2147
Hard gray lime and hard sandy lime - - - -	39	2186
Gray lime and hard black shale - - - -	4	2190
Hard black lime and shale - - - -	10	2200
Hard gray sandstone - - -	10	2210
Hard sandstone and shale	12	2222
Black shale - - - -	20	2242
Black shale and lime shells - - - -	40	2282
Dark-colored shale and hard lime - - - -	18	2300
Hard shale - - - -	32	2332
Hard sandy shale and lime shells - - - -	30	2362
TOTAL DEPTH - - - -		5270

Driller's log of well 129
Gale Oil Co., S. B. Rainey well 1, 20
miles southeast of Rocksprings.

Lime - - - -	15	15
Bluish-gray shale and lime shells - - - -	105	120
Blue shale and lime shells - - - -	53	173

(Continued on next page)

Table of Drillers' Logs, Edwards County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 129--Continued</u>		
Sandy lime, water	3	176
Gray lime	19	195
Light-blue shale	3'	225
Sandy lime	2'	245
Gray lime	35	28'
Blue shale	45	325
Gray lime	7	332
Blue shale	43	375
Lime and blue shale	6'	435
Gray lime	25	46'
Broken blue shale	33	493
Brown lime	82	575
Gray lime	75	65'
Blue shale	20	67'
Gray lime	5	675
Blue shale and shells	2'	695
Lime	35	73'
Sand, fresh water	45	775
Lime	6'	835
Blue shale	15	85'
Water sand	2'	870
Water sand and lime shells	65	935
Sandy lime	20	955
Sand and sandy lime	25	980
Gray lime	10	99'
Sand, fresh water	10	100'
Gray lime, caving	2'	102'
Lime and sand	5	1025
Red shale	2'	1045
TOTAL DEPTH		4005
CASING RECORD: 307 feet of 12½-inch, 870 feet of 12½-inch; 1,038 feet of 10- inch and 2,468 feet of 8-inch casing.		

<u>Driller's log of well 161</u>		
Empire Gas & Fuel Co., L. Rust well 1, 20½ miles southwest of Rocksprings.		
Lime	42	42
Hard lime	12	54
Pink clay	4	58
Lime	6	64
Lime with streaks of red clay	11	75
Red clay	10	85
Lime, water-	2	87
Red clay	63	150
Blue clay	10	160
Lime	20	180
Shale	28	208
Lime	17	225
Shale	10	235
Lime	13	248
Shale	2	250
Lime	15	265
Shale	10	275

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 161--Continued</u>		
Lime	20	295
Shale	5	300
Lime	2'	32'
Shale	8	328
Lime	17	345
Shale	15	360
Lime	5	365
Shale, gas and show oil at 385 feet	23	388
Shale and coarse-grained water sand	15	403
Shale	2	405
Lime	26	431
Shale	5	436
Lime	44	480
Shale	16	496
Lime	48	544
Shale	36	580
Lime	12	592
Shale	8	600
Lime	27	627
Shale	29	656
Lime	34	690
Shale	10	700
Lime	110	810
Coal	3	813
Lime	57	870
Sand, water	25	895
Gumbo	5	900
Shale	20	920
Sand	7	927
Shale	31	958
Sand	7	965
Shale	40	1005
Water sand	7	1012
Slate	6	1018
Shale	7	1025
Sand	5	1030
Gumbo	9	1039
Shale	12	1051
Red shale	9	1060
Blue shale	15	1075
Gray lime	5	1080
Shale	12	1092
Sand	4	1096
Red shale	12	1108
Shale	7	1115
Blue shale	4	1119
Shale	2	1121
Red shale	19	1140
Red clay	3	1143
Shale	4	1147
Sand, sulphur water	13	1160
Lime	10	1170

(Continued on next page)

Table of Drillers' Logs, Edwards County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 161--Continued</u>		
Sand - - - - -	21	1190
Water sand - - - - -	35	1225
Sand and gravel - - - - -	25	1250
Sand - - - - -	15	1265
Shale - - - - -	5	1270
Sand gravel - - - - -	20	1290
Shale - - - - -	25	1315
Brown shale - - - - -	11	1326
Blue shale - - - - -	7	1333
Black shale - - - - -	57	1390
Shale - - - - -	410	1800
Black shale and slate - - - - -	205	2005
Black shale - - - - -	240	2245
TOTAL DEPTH - - - - -		3635
CASING RECORD: 641 feet of 15 $\frac{1}{2}$ -inch; 1,295 feet of 12 $\frac{1}{2}$ -inch; 1,762 feet of 10-inch and 2,672 feet of 8 $\frac{1}{4}$ -inch casing.		

<u>Driller's log of well 168</u>		
Albert M. Griffith, C. B. Wardlaw well 1,25 $\frac{1}{2}$ miles west of Rocksprings.		
Gray lime - - - - -	585	585
Blue shale - - - - -	55	640
Gray lime - - - - -	35	675
Blue shale - - - - -	5	680
Gray lime - - - - -	15	695
Blue shale - - - - -	10	705
Gray lime - - - - -	70	775
Broken lime - - - - -	125	900
Blue shale - - - - -	10	910
Gray lime - - - - -	10	920
Blue shale - - - - -	40	960
Brown lime - - - - -	40	1000
Blue shale - - - - -	7	1007
Brown lime - - - - -	178	1185
Water sand - - - - -	6	1191
Gray sand - - - - -	7	1198
Blue shale - - - - -	9	1207
Brown lime - - - - -	5	1212
Blue shale - - - - -	3	1215
Gray sand - - - - -	3	1218
Water sand - - - - -	7	1225
Gray sand - - - - -	33	1258

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 168--Continued</u>		
Brown lime - - - - -	2	1260
Gray sand - - - - -	14	1274
Water sand - - - - -	26	1300
Brown sand, gas - - - - -	10	1310
Brown sand - - - - -	55	1365
Blue shale - - - - -	10	1375
Brown lime - - - - -	5	1380
Gray water sand - - - - -	5	1385
Blue shale - - - - -	3	1388
Water sand - - - - -	12	1400
Gray sand - - - - -	5	1405
Blue shale - - - - -	5	1410
Brown lime - - - - -	3	1413
Water sand - - - - -	12	1425
Gray lime - - - - -	5	1430
Sand, sulphur water - - - - -	20	1450
Sand - - - - -	10	1460
Anhydrite - - - - -	7	1467
Sand - - - - -	2	1469
Anhydrite - - - - -	3	1472
Sand - - - - -	3	1475
Water gravel - - - - -	5	1480
Gray lime - - - - -	8	1488
Water gravel - - - - -	2	1490
Brown shale - - - - -	3	1493
Hard sand - - - - -	2	1495
Brown shale - - - - -	2	1497
Blue shale - - - - -	71	1568
Gray lime - - - - -	7	1575
Black lime - - - - -	15	1590
Gray lime - - - - -	90	1680
Brown slate - - - - -	10	1690
Blue shale - - - - -	10	1700
Lime shell - - - - -	25	1725
Blue shale - - - - -	10	1735
Gray lime - - - - -	20	1755
Broken lime - - - - -	30	1785
Sandy gray lime - - - - -	11	1796
Blue shale - - - - -	14	1810
Hard gray lime - - - - -	5	1815
TOTAL DEPTH - - - - -		3002
CASING RECORD: 412 feet of 15 $\frac{1}{2}$ -inch and 1,540 feet of 12 $\frac{1}{2}$ -inch casing.		

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

	Thickness (feet)	Depth (feet)
<u>Well 30</u>		
Flat, -- Shanklin ranch, NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 92, Menard C. S. L., 9 miles northwest of Rocksprings.		
Surface soil - - - -	1	1
Black loam- - - -	1	2
Gumbo- - - -	1	3
Clay and gumbo - - -	1	4
Lime rock - - - -	1	5
Rock - - - -		5
December 31, 1938		

	Thickness (feet)	Depth (feet)
<u>Well 31</u>		
Flat, F. A. Moody ranch, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 96, Menard C. S. L., 8 miles northwest of Rocksprings.		
Surface soil - - - -	1	1
Loam and clay- - - -	1	2
Clay- - - -	1	3
Rock- - - -		3
December 27, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 32</u>		
Flat, F. A. Moody ranch, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 96, Menard C. S. L., 8 miles northwest of Rocksprings.		
Surface soil - - - -	1	1
Loam and clay- - - -	2	3
Clay and rock- - - -	3	6
Rock - - - -		6
December 27, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 48</u>		
River bottoms, side of State Highway 29, E $\frac{1}{2}$ N $\frac{1}{2}$ J. H. Jackson sur. 23, 23 $\frac{1}{2}$ miles northeast of Rocksprings.		
Surface soil - - - -	2	2
Loam and limestone - - -	4	6
Rock - - - -	1	7
December 29, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 49</u>		
River bottoms, side of State Highway 29, N $\frac{1}{2}$ N $\frac{1}{2}$ J. H. Jackson sur. 27, 23 $\frac{1}{2}$ miles northeast of Rocksprings.		
Surface soil - - - -	2	2
Loam - - - -	2	4
Loam and sand- - - -	2	6
Sand and clay- - - -	2	8
Sand, loam and rock --	1	9
Rock - - - -		9
December 29, 1938.		

	Thickness (feet)	Depth (feet)
<u>Well 70</u>		
Flat, T. Brown ranch, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 125, blk. 12, G. C. & S. F. R. R. sur., 6 $\frac{1}{2}$ miles northeast of Rocksprings.		
Red clay and surface soil	1	1
Red clay and sand - -	2	3
Sand loam and rock- -	2	5
Rock - - - -		5
March 8, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 71</u>		
Flat, T. Brown ranch, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 125, blk. 12, G. C. & S. F. R. R. sur., 6 $\frac{1}{2}$ miles northeast of Rocksprings.		
Surface soil and rock -	2	2
Clay and sand - - -	5	7
Rock - - - -		7
March 8, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 85</u>		
Flat, Mrs. C. L. Smith ranch, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 46, blk. 2, $\frac{1}{2}$ mile northwest of Rocksprings.		
Black surface loam- - -	2	2
Clay and sand - - -	2	3
Rock - - - -		3
March 9, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 86</u>		
Flat, Mrs. M. J. Moore ranch, SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 46, blk. 2, $\frac{1}{2}$ mile north of Rocksprings.		
Surface loam and clay -	2	2
Chalk and clay- - -	1	3
Rock - - - -		3
March 9, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 88</u>		
Flat, A. Busswell ranch, SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 51, blk. 2, $\frac{1}{4}$ mile west of Rocksprings.		
Surface soil - - - -	4	4
Loam and sand - - - -	1	5
Rock - - - -		5
March 9, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 89</u>		
Flat, C. Wilburn ranch, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 51, blk. 2, $\frac{1}{4}$ mile west of Rocksprings.		
Surface soil and clay -	3	3
Rock- - - -		3
March 9, 1939.		

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

	Thickness (feet)	Depth (feet)
<u>Well 99</u>		
Creek bottoms, C. H. Gilmer ranch, NW $\frac{1}{4}$ sec. 63, C. C. S. D. & R. G. N. G. R. R. sur., 8 miles east of Rocksprings.		
Surface soil - - -	1	1
Sand loam and rock - -	4	5
Rock - - - - -		5
January 17, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 125</u>		
Creek bottoms, side of State Highway 29, SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 46, blk. 11, G. C. & S. F. R. R. sur., 14 $\frac{1}{2}$ miles south of Rocksprings.		
Surface loam - - -	2	2
Loam and broken shell-	2	4
Coarse-grained loam and sand	1	5
Sand - - - - -	2	7
Water sand and gravel-	3	10
Rock - - - - -		10
Struck water at 8 feet. January 2, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 126</u>		
Creek bottoms, side of State Highway 29, NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 46, blk. 11, G. C. & S. F. R. R. sur., 14 $\frac{1}{2}$ miles south of Rocksprings.		
Surface loam - - -	2	2
Coarse-grained sand and loam - - - - -	2	4
Coarse-grained sand -	3	7
Gravel and water sand-	1	8
Struck water at 8 feet. January 2, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 127</u>		
Flat, Joe Woods ranch, E $\frac{1}{2}$ E $\frac{1}{2}$ sec. 38, blk. 11, G. C. & S. F. R. R. sur., 17 $\frac{1}{2}$ miles southeast of Rocksprings.		
Surface loam - - -	1	1
Loam and rock- - -	1	2
Sand and rock- - -	2	4
Sand, clay and rock --	1	5
Jan. 2, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 131</u>		
Flat, B. Jernigan ranch, S $\frac{1}{2}$ S $\frac{1}{2}$ sec. 2, blk. 11, G. C. & S. F. R. R. sur., 20 miles southeast of Rocksprings.		
Surface soil - - -	1	1
Sand, clay and chalk -	3	4
Rock - - - - -		4
January 3, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 134</u>		
Flat, R. Kirchner ranch, SW $\frac{1}{4}$ cen. 1/3 sec. 238, blk. 11, G. C. & S. F. R. R. sur., 24 $\frac{1}{2}$ miles south of Rocksprings.		
Surface loam - - -	2	2
Sand- - - - -	4	6
Rock - - - - -		6
January 26, 1939.		

	Thickness (feet)	Depth (feet)
<u>Well 156</u>		
Creek bottoms, J. Thurman ranch, SE $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 45, blk. 2, G. W. T. & P. R. R. sur., 19 $\frac{1}{2}$ miles southwest of Rocksprings.		
Surface loam - - -	2	2
Silt - - - - -	2	4
Sand - - - - -	1	5
Coarse-grained sand-	1	6
Coarse-grained sand and rock - - - - -	2	8
Sand, clay and rock-	1	9
Rock - - - - -		9
January 3, 1939.		

Partial analyses of water from wells and springs in Edwards 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 D. C. Ebner, 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 No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Fluoride (F)	Total hardness as CaCO ₃ (calc.)
5	A. & M. College of Texas	417	Jan. 30, 1939	255	-	-	-	268	9	14	b/	-	-
10	J. E. Holland	448	do.	194	-	-	-	183	11	18	b/	0.7	-
11	E. C. Beam	430	Feb. 14, 1939	265	66	18	13	293	11	13	b/	0.2	241
13	F. Cloudt	316	do.	266	-	-	-	281	11	13	b/	-	-
18	F. Wittenberg	320	Feb. 20, 1939	252	52	26	11	268	13	18	b/	-	236
19	H. S. Davis	320	do.	268	62	10	18	159	11	38	51	-	196
21	Jess Hankins	250	do.	216	-	-	-	220	11	13	b/	-	-
22	H. H. Hough	310	do.	204	48	15	12	207	11	16	b/	-	179
23	E. R. Burney	340	do.	227	-	-	-	220	11	20	b/	-	-
24	B. Sherrill	280	do.	213	59	11	9	220	11	15	b/	-	192
25	L. Burney	340	Feb. 21, 1939	280	58	16	24	207	10	42	28	-	210
26	F. A. Moody	359	Jan. 30, 1939	216	-	-	-	189	9	31	b/	-	-
27	Sol Meyer	420	do.	197	50	16	5	201	9	18	b/	-	190
28	S. J. Shanklin	260	Dec. 31, 1938	246	-	-	-	244	15	16	b/	0.2	-
29	do.	370	do.	203	-	-	-	195	15	14	b/	-	-
33	F. A. Moody	390	Dec. 27, 1938	240	-	-	-	244	15	12	b/	-	-
34	Troy Owens	400	do.	226	56	16	9	226	19	15	b/	0.1	205
35	F. A. Moody	400	do.	279	-	-	-	244	15	37	b/	-	-
36	John Harris	365	do.	253	58	15	20	250	19	15	b/	-	204
38	L. Babb	280	Dec. 31, 1938	287	107	4	-	281	15	23	b/	0	282
40	F. Baker	240	do.	293	99	4	11	305	15	14	b/	-	262
41	Sam Guthrie	118	Mar. 8, 1939	306	84	17	8	287	13	25	b/	-	281
42	do.	71	do.	294	82	16	12	311	9	22	b/	-	270
44	J. Deats	Spring	Jan. 5, 1939	230	65	13	6	244	15	11	b/	0.1	218
45	do.	Spring	Feb. 10, 1939	246	60	17	13	268	13	11	b/	-	221
46	J. O. Tanner	Spring	Dec. 29, 1938	267	73	13	12	281	13	11	b/	-	238
47	State of Texas	Spring	do.	256	74	15	5	275	15	11	b/	0	244
53	W. Schreiner	142	Mar. 2, 1939	-	-	-	-	-	11	11	b/	-	-
56	V. B. Snodgrass	180	do.	179	42	17	4	195	9	11	b/	-	176
57	E. E. Morris	266	do.	245	-	-	-	262	7	13	b/	-	-

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

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

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Fluoride (F)	Total hardness as CaCO ₃ (calc.)
58	R. H. Morris	100	Mar. 2, 1939	207	-	-	-	220	7	11	b/	-	-
62	O. Q. Marshall	400	do.	222	54	15	13	232	11	15	b/	-	194
67	L. W. Hyde	400	do.	246	60	10	17	189	11	30	25	-	191
68	-- Peterson Est.	400	Feb. 14, 1939	221	-	-	-	220	11	16	b/	-	-
73	Ray Moody	214	Feb. 24, 1939	479	127	11	20	238	12	72	b/	-	362
74	B. Epperson	260	do.	217	-	-	-	232	7	11	b/	-	-
75	F. D. Sweeten	422	Feb. 14, 1939	226	-	-	-	226	11	16	b/	-	-
76	B. Epperson	421	Feb. 24, 1939	182	40	16	9	189	8	16	b/	-	165
77	R. Ross	420	Feb. 14, 1939	206	48	15	13	214	11	14	b/	-	179
78	T. B. Riggs	146	do.	215	68	6	7	195	11	27	b/	-	194
79	Anna Hough	Spring	Mar. 9, 1939	152	34	1	24	122	10	23	b/	-	91
80	Anna Miller	425	do.	210	46	16	14	207	11	21	b/	-	180
81	J. W. Babb	428	Jan. 30, 1939	223	51	13	18	220	11	22	b/	-	183
82	R. C. Babb	400	Dec. 28, 1938	212	-	-	-	195	19	16	b/	-	-
83	do.	412	do.	233	-	-	-	226	15	17	b/	0.4	-
84	H. Rudasill	410	Jan. 30, 1939	201	-	-	-	195	11	16	b/	-	-
90	W. C. Strackbein	361	Mar. 9, 1939	228	-	-	-	207	11	27	b/	-	-
96	C. V. Whitworth	255	Mar. 4, 1939	224	67	13	2	244	10	12	b/	-	223
98	C. H. Gilmer	Spring	Jan. 6, 1939	247	58	18	13	262	19	10	b/	-	221
100	do.	Spring	Feb. 9, 1939	242	56	15	19	232	11	27	b/	-	199
102	J. F. Jenkins	400	Dec. 30, 1938	242	-	-	-	232	15	20	b/	-	-
103	Peterson & Hyde	Spring	Feb. 8, 1939	252	66	17	9	275	11	14	b/	-	236
108	W. T. Whittle	27	Jan. 17, 1939	256	-	-	-	268	11	13	b/	-	-
109	B. W. Merritt	25	do.	195	57	12	2	207	11	11	b/	-	193
110	Dan Caldwell	Spring	Feb. 23, 1939	221	-	-	-	232	11	10	b/	-	-
111	A. L. Ray	Spring	Feb. 27, 1939	201	50	18	2	214	15	11	b/	0	201
113	G. Custer	150	Mar. 9, 1939	369	101	11	8	226	13	24	101	0.2	297
114	C. A. Duncan	350	do.	203	55	11	10	220	9	10	b/	-	182
116	L. McFerrin	Spring	Jan. 16, 1939	176	46	7	13	177	11	12	b/	-	145
117	do.	Spring	Jan. 18, 1939	180	-	-	-	183	11	9	b/	-	-
118	do.	Spring	do.	201	-	-	-	207	11	10	b/	0	-
119	L. A. Fields	35	Mar. 9, 1939	276	74	18	8	299	11	12	b/	-	261
122	A. P. Allison	Spring	Feb. 3, 1939	246	63	19	5	262	9	11	b/	-	237
123	Joe Woods	120	Mar. 9, 1939	259	-	-	-	275	13	10	b/	-	-
124	State of Texas	Spring	Jan. 2, 1939	253	-	-	-	262	15	11	b/	-	-

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

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

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calc.)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calc.)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Nitrate (NO ₃)	Fluoride (F)	Total hardness as CaCO ₃ (calc.) ³
130	Bessie Jernigan	Spring	Feb. 3, 1939	245	63	21	4	268	10	15	b/	-	243
132	J. C. Pope	22	Jan. 2, 1939	225	62	15	6	244	9	13	b/	0.1	214
133	R. Kirchner	Spring	Jan. 26, 1939	236	-	-	-	244	11	13	b/	-	-
135	E. D. Custer	Spring	Jan. 25, 1939	241	-	-	-	256	11	10	b/	-	-
139	W. L. Moody Jr.	Spring	Feb. 2, 1939	222	62	16	3	244	8	13	b/	-	220
141	E. Guenther	Spring	Jan. 24, 1939	246	69	13	9	268	11	12	b/	-	228
142	do.	Spring	Jan. 23, 1939	181	-	-	-	183	11	10	b/	-	-
143	Wagner & Guenther	Spring	do.	171	52	6	7	183	9	7	b/	0.1	154
144	do.	Spring	Jan. 20, 1939	184	54	10	7	201	11	7	b/	0	176
145	L. W. Wheeler	300	Feb. 21, 1939	209	-	-	-	207	12	14	b/	-	-
146	B. W. Weaver	-	Feb. 24, 1939	213	61	11	8	238	8	8	b/	-	197
148	L. L. Ellis	220	Feb. 21, 1939	216	60	8	9	201	8	10	21	-	185
151	M. Kirkland	125	do.	275	67	10	27	226	11	49	b/	0.1	207
152	H. Lynn	150	do.	214	58	10	10	201	10	15	b/	-	186
154	L. Thurman	80	do.	184	52	8	8	195	9	10	b/	0.2	165
155	J. G. Blackmon	Spring	Jan. 3, 1939	263	-	-	-	256	15	13	b/	-	-
158	J. Thurman	Spring	Feb. 6, 1939	213	59	11	9	220	15	11	b/	0.1	192
159	do.	101	do.	200	49	13	11	214	11	11	b/	-	178
162	N. J. Jernigan	255	Feb. 1, 1939	204	54	10	12	214	13	10	b/	0.1	176
163	O. L. McNealy	308	Feb. 21, 1939	3,095	632	203	4	220	2,132	16	b/	-	2,415
166	do.	Spring	Feb. 7, 1939	237	-	-	-	256	9	9	b/	-	-
167	E. T. Rucker	-	Feb. 20, 1939	386	108	8	13	232	15	41	86	-	305
170	J. Rosenow	510	do.	202	53	12	9	207	13	13	b/	0.4	183
171	York Newman	390	do.	198	-	-	-	207	9	10	b/	-	-
172	W. A. Varga	510	do.	232	-	-	-	232	15	13	b/	-	-

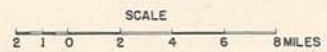
a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

MAP OF EDWARDS COUNTY, TEXAS

SHOWING LOCATIONS OF WATER WELLS LISTED

- 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
 - TEST WELL DRILLED BY W.P.A. LABOR
 - SPRING
- HWY 41 HIGHWAY
 COUNTY ROAD
 UNIMPROVED ROAD
 TRAIL



FIELD WORK BY
 J. M. FRAZIER - Jr.
 W. P. A. PROJECT 12480

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

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

