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GUADALUPE COUNTY, TEXAS

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

\* \* \*

WORKS PROGRESS ADMINISTRATION

GROUND WATER SURVEY

PROJECT 2084

E. S. Altgelt and E. J. Michal

Project Superintendents

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Analyses made, map prepared, data  
assembled, and report mimeographed by

WORKS PROGRESS ADMINISTRATION

PROJECT 6507-5112

\* \* \*

Sponsored by the State Board of Water Engineers with  
the Bureau of Industrial Chemistry of The University  
of Texas and the U. S. Geological Survey cooperating.

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Austin, Texas

Oct. 30, 1937

## GUADALUPE COUNTY, TEXAS

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### Introduction

by

Samuel F. Turner  
Associate Hydraulic Engineer  
U. S. Geological Survey

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

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

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

The field work in Guadalupe County was started December 19, 1935, with E. S. Altgelt an engineer as project superintendent but was shut down June 18, 1936, when Mr. Altgelt resigned to accept another position. Mr. E. J. Michal, an Engineer, resumed operations September 1, 1936, and completed the county October 8, 1936. This work was done as Project 2084 of District 10 of the Works Progress Administration, San Antonio, Texas. Mr. Altgelt and Mr. Michal should be given credit for their interest in the work and for the many extra hours they spent on the project. The office of the Works Progress Administration in the San Antonio District made this work possible by their constant help and cooperation.

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

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

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
1	16 miles north	And. Mitchell	M. Fleming	--	1930	17	36	0.4
2	do.	do.	Martindale Loan Co.	--	--	18	36	2.8
d/3	15 miles northeast	Geo. Allen	R. P. Lowman	Humble Oil & Ref. Co.	1929	1,118	12 $\frac{1}{2}$	--
4	12 $\frac{1}{2}$ miles north	Chas. Henderson	A. Schulte	M. Merritt	1894	983	6	--
5	do.	do.	do.	--	--	1,000	--	--
6	11 miles north	Antonio Maria Esnaurrizar	M. Randow	--	1921	18	36	0
7	10 $\frac{1}{2}$ miles north	do.	C. Eiesle	--	--	Spring	--	--
8	9 $\frac{1}{2}$ miles north	do.	Barker Life Loan Co.	--	1910	40	36	1.7
9	9 miles northwest	do.	E. R. Voight	E. R. Voight	1935	39	36	1.9
10	9 $\frac{1}{2}$ miles northwest	do.	Ed. Reeh	Ed. Reeh	1906	33	36	0
11	do.	Sarah Dewitt	O. Bodemann	O. Bodemann	1932	11	72	0
12	7 $\frac{1}{2}$ miles northwest	Antonio Maria Esnaurrizar	A. Kirchmeyer	--	--	32	36	1
14	7 miles northwest	do.	W. Timmerman	--	--	30	36	2.8
15	7 miles north	do.	E. Bading	--	--	34	36	3.1
17	7 $\frac{1}{2}$ miles north	Marjita Chirino	A. Harborth	--	1932	20	36	3.2
19	9 miles north	Jno. B. Cowan	Mrs. F. Meyer	--	--	Spring	--	--
20	6 miles north	Marjita Chirino	Gerónimo Girón	--	1905	22	6	4
21	do.	do.	Q. Dittner	--	1900	31	4	3.2
22	5 $\frac{1}{2}$ miles northwest	Antonio Maria Esnaurrizar	Otto Korchers	--	1883	34	36	0
23	5 miles north	do.	H. Schriewer	--	--	45	36	2.1
24	4 $\frac{3}{4}$ miles north	do.	E. Dolle	--	--	30	36	0.8
25	4 $\frac{1}{2}$ miles northwest	do.	Alfred Boenig	--	--	40	36	1.9
27	5 miles northwest	M. Baker	H. Wienert	--	--	40	36	3
28	5 miles west	do.	A. W. Coddell	--	--	40	36	1.7

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

b/ C, cylinder; W, windmill; B, bucket; H, hand; G, gasoline; E, electric; T, tur-

Records obtained by E. S. Altgelt and E. J. Michal, Project Superintendents  
(Chemical analyses of water from these wells and springs are in the table of analyses.)

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
1	12.7	Sept. 21, 1936	C, I	D, S	Rolling	Concrete curb; brick casing. Owner reported never fails in drought.
2	11.6	Sept. 24, 1936	B, H	D, S	do.	Wood curb; rock casing. Owner reported never fails in drought.
3	--	--	None	N	--	Oil test. See log.
4	Flows	Sept. 24, 1936	--	--	Rolling	Drilled well; steel casing. Estimated flow, 30 gallons a minute.
5	--	--	--	--	--	Drilled well.
6	8.3	Sept. 24, 1936	C, C, 2 $\frac{1}{2}$	D, S	Rolling	Wood curb; wood casing. Owner reported supply varies seasonally.
7	Flows	Oct. 1, 1936	None	S	do.	Estimated flow, 2 gallons a minute from 1 opening in sand.
8	27.9	Sept. 10, 1936	C, I	D, S	River bottoms	Concrete curb; brick casing. Strong supply.
9	40.3	do.	C, I	D, S	do.	Brick curb; brick casing. See log.
10	25.4	do.	C, W	D, S	do.	Brick casing. Owner reported water from gravel at 32 feet.
11	9	do.	B, H	D	do.	Rock curb; rock casing. Weak supply of water reported from yellow sand.
12	26.2	do.	C, I	D, S	Rolling	Brick curb; brick casing. Reported strong supply.
14	23.3	do.	C, W	D, S	do.	Concrete curb; rock casing. Strong supply reported from gravel.
15	30.4	do.	C, G, -	D, S	do.	Brick curb; brick casing. Owner reported never fails in drought.
17	19.2	Sept. 24, 1936	C, W	D, S	do.	Concrete curb; brick casing. Owner reported slight drawdown when pumping.
19	Flows	Sept. 23, 1936	None	S	do.	Estimated flow, 1 gallon a minute from 1 opening in gravel.
20	15.3	June 1, 1936	T, -, 9	Ind.	Flood plain	Brick curb; brick casing. Reported drawdown, 2 feet after pumping 1000 gallons a minute for 20 minutes.
21	23.9	do.	None	D, S	do.	Brick curb; brick casing. Strong supply reported from gravel.
22	26.8	Sept. 24, 1936	C, I	D, S	Rolling	Rock curb; rock casing. Strong supply reported from hard rock.
23	34	do.	C, I	D, S	do.	Brick curb; rock casing. Reported strong supply.
24	26.3	Sept. 10, 1936	C, I	D, S	River bottoms	Rock curb; rock casing. Reported strong supply.
25	35.8	do.	C, I	D, S	do.	Concrete curb; rock casing. Reported strong supply.
27	33.7	Oct. 2, 1936	C, I	D, S	do.	Concrete curb; brick casing. Reported strong supply.
28	31.3	Sept. 9, 1936	B, H	S	do.	Wood curb; rock casing. Reported strong supply.

c/ D, domestic; S, stock; N, not used; Ind., industrial; P, public; Of, oil field.

d/ No water sample collected for analysis.

e/ Water level reported

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
29	4 miles west	Antonio Maria Esnaurrizar	Seguin Milling Co.	--	1935	16	60	3
30	3 $\frac{1}{2}$ miles west	Jos. D. Clements	R. Tschoepe	R. Tschoepe	1920	38	36	1
31	2 $\frac{3}{4}$ miles west	do.	Geo. Brackerridge	-- Judson	--	2,348	10	--
33	1 $\frac{1}{2}$ miles west	do.	A. W. Sargent	--	--	40	36	2.4
34	1 $\frac{1}{2}$ miles west	Umphries Branch	F. Richard	--	1924	40	36	2.6
35	2 $\frac{1}{2}$ miles northwest	Jos. D. Clements	Oscar Alves	--	--	35	36	2.6
36	2 $\frac{3}{4}$ miles northwest	Antonio Maria Esnaurrizar	Mrs. Clara Brewstedt	--	188-	40	48	0.3
37	2 miles north	Umphries Branch	J. Vetter	--	1905	45	36	0.3
38	3 $\frac{1}{2}$ miles north	Marjita Chirino	Mrs. A. Alfenhaf	A. Alfenhaf	1884	28	36	0
39	do.	do.	F. H. Westphal	Russ Williams	1936	20	72	1.6
40	4 miles north	do.	San Geronimo School	--	1929	33	36	0.4
42	4 $\frac{1}{4}$ miles north	Antonio Maria Esnaurrizar	H. Bertles	--	1906	36	--	0.4
44	5 miles north	Marjita Chirino	Wm. Timbermann	--	--	Spring	--	--
46	6 miles north	do.	Aug. Glenwinkle	--	--	45	36	0
47	4 $\frac{1}{2}$ miles north	do.	Mrs. H. Thormeyer	R. Downs	1935	21	36	1.6
50	6 miles northeast	John Tom	Mrs. Kay Tom	--	--	65	36	0
<u>d/51</u>	6 $\frac{1}{2}$ miles northeast	C. Fulcher	Henry Calvert	O. W. Killiam	1928	2,290	--	--
52	7 $\frac{1}{2}$ miles northeast	Young Settoon	W. F. Com	--	--	90	36	0
53	11 $\frac{1}{2}$ miles northeast	John G. King	Clem Proudnox	--	--	230	6	--
54	12 miles northeast	Wm. R. King	R. E. L. Adams	--	--	75	6	0.8
<u>d/55</u>	do.	Wm. H. Hunter	H. Gordon	-- Smith	--	150	6	0.3
56	13 $\frac{1}{2}$ miles northeast	Rob't. Smith	J. L. Cowley	--	--	80	6	0.4
57	15 $\frac{1}{2}$ miles northeast	Edw. Pettus	B. C. Talmadge	--	--	20	6	1.7
<u>d/58</u>	14 miles northeast	Rob't. Smith	J. T. Fulshear	Jno. W. Hooser	1926	2,451	--	--
59	15 miles northeast	Harriett Cottle	J. D. Wright	--	1918	165	6	--
60	do.	do.	H. F. Allen	--	1886	62	36	2.2

## E. S. Altgelt and E. J. Michal, Project Superintendents

No.	Water Level		Pump and power b/	Use of water c/	Topo- graphic situa- tion	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment				
29	6.8	Sept. 1, 1936	C, E, 5	D,	River Ind. bottoms	Steel casing. Reported drawdown, 3 feet after pumping 30 gallons a minute for 24
30	27.4	Oct. 2, 1936	C, W	D, S	Rolling	Wood curb; tile casing. Strong supply reported from gravel. hours.
31	Flows	Feb. 15, 1936	None	P	River bottoms	Drilled well. Estimated flow, $\frac{1}{2}$ cubic foot per second. Reported sulphur water from
33	31.7	Sept. 5, 1936	C, 7	D, S	do.	Concrete curb; brick cas-   chalk. See log. ing. Reported strong supply.
34	36.3	do.	C, 7	D, S	do.	Do.
35	29.3	do.	C, 7	D, S	do.	Do.
36	27.8	Sept. 10, 1936	C, W	D, S	Rolling	Rock curb; rock casing. Strong supply re- ported from gravel.
37	34.1	Sept. 23, 1936	C, W	D, S	River bottoms	Concrete curb; brick casing. Strong supply reported from sand rock.
38	24.1	do.	C, W	D, S	Rolling	Rock curb; rock casing. Reported strong supply.
39	18.8	Sept. 24, 1936	C, H	D, S	do.	Concrete curb; brick casing. Reported slight drawdown after pumping 75 gallons a minute for 4 hours. See log.
40	28.6	do.	C, 7	D, S	do.	Concrete curb; brick casing. Reported strong supply from gravel.
42	28.5	Sept. 23, 1936	C, 7	D, S	do.	Rock curb; rock casing. Reported strong supply.
44	Flows	June 1, 1936	None	S, P	Flood plain	Estimated flow, 300 gallons a minute from fissures in gravel and clay.
46	31.3	Oct. 1, 1936	C, 7	D, S	Rolling	Brick curb; brick casing. Reported strong supply.
47	16.6	do.	C, W	D, S	do.	Concrete curb; 3 feet concrete casing at top. Reported strong supply.
50	42.2	Sept. 16, 1936	C, 7	D, S	do.	Rock curb; rock casing. Reported strong supply.
51	--	--	None	N	--	Oil test. See log.
52	82.2	Sept. 16, 1936	C, V	D, S	Rolling	Rock curb; rock casing. Reported mineral- ized during summer.
53	190	e/	C, G, -	--	Hill- side	Drilled well. Reported pumps dry in 30 minutes.
54	35.9	Sept. 16, 1936	C, -, -	D, S	Rolling	Drilled well; steel casing. Reported strong supply.
55	37.6	Sept. 21, 1936	E, H	D, S	do.	Do.
56	61.1	do.	C, 7	D, S	do.	Do.
57	16.4	do.	C, W	D, S	do.	Drilled well; clay pipe casing.
58	--	--	None	N	--	Oil test. See log.
59	--	--	C, W	D, S	Rolling	Drilled well; steel casing. Strong supply reported from sandstone.
60	49.2	Sept. 16, 1936	C, 7	D, S	do.	Wood curb; rock casing. Reported strong supply.

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
61	16 miles northeast	Sam'l Highsmith	A. H. Gilley	--	1892	103	6	0.9
62	17 $\frac{1}{2}$ miles east	Sam Williams	B. L. Echols	--	--	50	36	1.7
d/63	18 miles east	B. Fugua	D. Darling	-- Walter, et al.	1933	2,921	10	--
64	do.	Stephen Smith	Posley Bell	--	1900	25	42	1.7
65	16 $\frac{1}{2}$ miles east	Wm. P. King	Mrs. W. J. Wagoner	--	--	27	36	2.7
66	do.	do.	Charlie Zudler	--	--	54	--	3.8
67	do.	do.	Wesley McKinney	--	--	57	--	2.2
68	16 miles east	do.	E. F. Wood	--	1916	171	5-7/8	--
69	16 $\frac{1}{2}$ miles east	do.	do.	--	--	34	48	2.7
70	16 miles east	do.	-- Kerkendall	--	--	72	96	0.6
71	15 miles east	James Hodges	Mrs. Johnnie Manford	Granville Adams	1922	101	36	4.5
72	do.	do.	Chas. Zedler	--	--	--	4	--
73	do.	do.	R. C. Appling	Magnolia Oil Co.	--	--	8	--
74	do.	do.	do.	do.	--	--	8	0.7
d/75	do.	do.	do.	do.	--	--	6	--
d/76	do.	do.	do.	do.	--	69	--	--
d/77	14 $\frac{1}{2}$ miles east	J. Randolph	C. H. Adams	--	1928	3,164	12 $\frac{1}{2}$	--
78	13 $\frac{1}{2}$ miles east	Joel R. Robinson	Dix and McCain	Gulf Oil Co.	--	350	--	--
79	do.	do.	do.	do.	--	350	7	--
d/80	13 miles east	do.	Chris. Knoblock	Sun Oil Co.	--	260	7	--
81	do.	do.	do.	do.	1929	205	7	--
82	12 $\frac{1}{2}$ miles east	do.	Pat Baker	--	--	130	6	--
83	11 miles east	C. B. Stewart	Aug. Glenwinkle	Will Smith	--	165	5	1
d/84	10 miles east	W. R. King	Geo. Wagner	--	1891	130	6	1.2
85	do.	Robt. Hall	-- Solier	--	--	66	36	0.5
86	12 miles east	Jacob J. Darst	A. F. Wille	The Texas Co.	--	--	--	--
87	12 $\frac{1}{2}$ miles east	do.	do.	--	--	112	6	--

E. S. Altgelt and E. J. Michal, Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
61	51.4	Sept. 16, 1936	C, W	D, S	Rolling	Drilled well; steel casing. Strong supply reported from blue shale.
62	42.2	Sept. 22, 1936	B, H	D, S	do.	Wood curb; brick casing. Reported mineral- ized in summer.
63	--	--	None	N	--	Oil test. See log.
64	8.3	Apr. 17, 1936	--	D, S	Hill- side	Rock casing. Water reported in sand.
65	17.1	do.	--	D, S	do.	Do.
66	43.9	do.	--	D, S	Creek bottoms	Do.
67	49.6	do.	--	D	Hill- side	Do.
68	80	<u>e/</u>	C, T	D, S	do.	Drilled well; steel casing. Water reported in sand.
69	30.4	Apr. 17, 1936	B, H	D, S	Creek bottoms	Brick curb; rock casing.
70	71.4	May 1, 1936	None	D, S	Hill- side	10 feet brick casing at top. Water reported in sand.
71	97.7	do.	do.	S	Hill- top	Wood curb; brick casing. Water reported in sand.
72	--	--	C, T	S	do.	Drilled well; steel casing. Water reported in sand.
73	--	--	A, D	Of	do.	Do.
74	53.4	May 1, 1936	A, D	Of	Hill- side	Do.
75	--	--	A, D	Of	do.	Do.
76	--	--	A, D	Of	do.	Do.
77	--	--	None	N	--	Oil test. See log.
78	75	<u>e/</u>	C, E, 35	Of	Hill- side	Drilled well.
79	75	<u>e/</u>	C, -, -	Of	do.	Drilled well; steel casing. Water reported in sand.
80	--	--	--	Of	--	Drilled well.
81	145	<u>e/</u>	C, E, 30	Of	Hill- side	Drilled well; steel casing. Water reported in sand.
82	130	<u>e/</u>	C, T	D, S	Rolling	Drilled well; steel casing. Reported strong supply.
83	83.9	Sept. 21, 1936	C, W	D, S	do.	Drilled well; steel casing. Strong supply reported from blue sand.
84	92.5	Sept. 22, 1936	C, T	D, S	do.	Drilled well; steel casing. Reported strong supply.
85	53.2	Apr. 17, 1936	--	S	Hill- side	Wood curb; rock casing. Reported strong supply.
86	--	--	--	Of	Hill- top	Drilled well. Water reported in sand.
87	--	--	C, J	D	--	Drilled well; steel casing. Reported slight fluctuation indicating 3 cases for 3 days



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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
88	12 $\frac{1}{2}$ miles east	Jacob C. Darst	Ferd. Feste	--	1900	190	6	--
d/89	13 miles east	Joel R. Robinson	J. I. Feste	--	--	--	--	--
90	13 $\frac{1}{2}$ miles east	John H. Burnham	do.	--	1895	54	48	1.3
d/91	do.	do.	Henry Ranft	--	1880	55	48	3.0
92	do.	do.	J. N. Ranft	--	1932	97	5	--
93	14 miles east	Joel R. Robinson	Mrs. K. Klein	--	--	120	--	--
94	do.	J. B. Alexander	Walker Bros.	--	--	73	--	3.0
95	14 $\frac{1}{2}$ miles east	John H. Burnham	Jim Seay	--	--	43	24	--
96	do.	L. W. Alexander	Mrs. Fannie Nixon	--	--	47	--	2.3
d/97	15 miles east	do.	Walker Bros.	--	--	--	6	--
98	15 $\frac{1}{2}$ miles east	do.	Mrs. Fannie Nixon	--	--	92	--	--
99	do.	do.	Walker Bros.	--	--	285	6	--
100	14 miles east	John H. Burnham	Henry Ranft	--	--	21	48	1.0
101	do.	do.	Fred Warren	--	--	40	42	2.3
102	15 miles east	Ira Nash	James Applein	--	--	47	30	2.0
103	14 $\frac{1}{2}$ miles east	do.	John Pollock	--	1929	41	5	0.9
104	14 miles east	do.	John Sanderson	Harvey Sanderson	1922	39	--	3.0
105	do.	do.	--	--	--	52	36	2.0
106	do.	do.	John T. Howell	--	--	40	--	2.0
107	13 miles east	do.	F. Y. Roberts	--	--	70	6	1
108	12 miles east	Jacob C. Darst	M. T. Howell	--	--	138	--	--
109	do.	do.	Tom Howell	--	--	125	--	--
110	11 $\frac{1}{2}$ miles east	do.	Mrs. A. A. Anderson	--	--	46	54	3.3
111	do.	do.	do.	Ben Reynolds	1931	93	5	--
112	11 miles east	do.	L. G. Denman Est.	Bassil Brawner	--	46	--	0.8

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

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

E. S. Altgelt and E. J. Michal, Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measurement point (feet)	Date of measurement				
88	125	<u>e/</u>	--	D,S	Hill-top	Drilled well; steel casing. Strong supply reported from sand.
89	--	--	--	--	Hill-side	No information. Reported cemented.
90	49.7	Apr. 15, 1936	--	D,S	do.	Rock casing. Strong supply reported from sand.
91	50.7	do.	--	D,S	Hill-top	Wood curb; log casing. Reported pumps dry in 15 minutes.
92	62	<u>e/</u>	C,T	S	Creek bottoms	Drilled well; steel casing. Water reported in sand.
93	--	--	C,T	D,S	Creek terrace	Do.
94	71.1	Apr. 16, 1936	B,H	D	Hill-side	Wood curb; brick casing.
95	33.3	<u>e/</u>	C,T	S	do.	Concrete curb; rock casing. Reported pumps dry after pumping 1000 gallons.
96	44.6	Apr. 16, 1936	B,H	D,S	do.	Masonry curb. Water reported in sand.
97	--	--	C,T	N	do.	Drilled well; galvanized casing. Water reported in sand.
98	65	<u>e/</u>	C,T	D	--	Reported altitude, 480 feet.
99	--	--	C,T	S	Hill-side	Drilled well; steel casing. Water reported in sand.
100	13.0	Apr. 15, 1936	B,H	S	Creek terrace	Rock curb and casing. Strong supply.
101	35.0	do.	--	N	Hill-side	Wood curb; rock casing.
102	38.5	Mar. 17, 1936	--	D	do.	Wood curb; concrete casing. Water reported in sand.
103	31.5	do.	B,H	--	Creek terrace	Drilled well; galvanized casing. Water reported in sand.
104	36.1	do.	--	D,S	--	Wood curb.
105	49.4	do.	--	N	--	Rock curb; rock casing. Water reported in sand.
106	35.3	do.	--	--	River terrace	Cement curb.
107	57.8	Sept. 23, 1936	C,T	D,S	Rolling	Drilled well; steel casing. Strong supply.
108	102	<u>e/</u>	C,T	D,S	Hill-top	Drilled well. Water reported in sand.
109	90	<u>e/</u>	C,T	--	do.	Do.
110	36.7	Apr. 3, 1936	--	--	River terrace	Brick curb; rock casing.
111	83	<u>e/</u>	C,H	D,S	do.	Drilled well; steel casing. Water reported in sand.
112	43.2	Apr. 3, 1936	--	--	Hill-side	Drilled well; galvanized casing.

c/ D, domestic; S, stock; N, not used; Ind, industrial; P, public; Of, oil field.

d/ No water sample collected for analysis.

e/ Water level reported.

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

No.	Distance from Seguir.	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
113	11 miles east	Jacob C. Darst	Walters-Nixon Ind. School	--	1932	130	5	--
114	do.	do.	A. E. Dowdy	Empire Gas and Fuel Co.	--	--	8	--
115	9 $\frac{1}{2}$ miles east	Jose K. Davis	Mrs. Kate Lay	--	--	81	72	3.4
d/116	11 miles east	Jacob C. Darst	John Sanderson	--	--	--	6	--
117	10 $\frac{1}{2}$ miles east	Jose K. Davis	Fritz Johns	--	--	53	72	0.5
118	10 miles east	do.	Robert Johns	--	--	74	6	0.4
119	do.	do.	W. Fiedner	--	--	70	--	--
120	do.	do.	Antone Mandel	--	--	65	--	--
121	10 $\frac{1}{2}$ miles east	do.	Fritz Johns	--	--	--	--	--
122	11 miles east	Jose de la Baume	Gustav Beicker	--	1900	29	60	3.3
123	do.	do.	do.	--	1896	52	60	1.0
124	do.	do.	Mrs. Augusta Giesick	--	--	27	60	0
125	do.	do.	do.	-- John	1900	87	--	--
126	11 $\frac{1}{2}$ miles east	do.	F. M. Mathies	West Williams	1914	96	60	--
127	do.	do.	do.	--	188-	73	60	3.1
128	12 miles east	do.	Martindale Loan Co.	--	--	34	48	1.4
129	do.	do.	do.	--	--	30	36	--
130	13 $\frac{1}{2}$ miles east	do.	Mrs. Leroy Denman	--	--	36	--	--
131	do.	do.	do.	--	--	--	6	--
132	14 $\frac{1}{2}$ miles east	do.	Herman Soefje	--	1892	18	60	2.8
d/133	do.	do.	do.	--	1901	100	3	--
134	13 miles east	do.	Mrs. Leroy Denman	--	1935	24	24	--
135	do.	do.	do.	--	--	30	60	0.6
136	13 $\frac{1}{2}$ miles east	do.	Herman Soefje	--	1884	42	--	3.8
137	12 miles east	do.	Martindale Loan Co.	--	--	37	6	0.4
138	11 $\frac{1}{2}$ miles east	do.	do.	--	--	27	30	3.5
139	11 miles	do.	Mrs. Otlie	--	1902	120	6	--

## E. S. Altgelt and E. J. Michel, Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
113	100	<u>e/</u>	C,W,& E,3	P	Hill-top	Drilled well; steel casing. Water reported in sand.
114	--	--	-,E,15	of	do.	Drilled well; steel casing. Estimated yield, 60,000 gallons a day.
115	74.7	June 17, 1936	B,H	D,S	River terrace	Wood curb. Water reported in sand.
116	--	--	--	--	--	Drilled well; steel casing. Water level reported more than 102 feet.
117	47.0	May 18, 1936	B,H	D,S	Hill-top	Wood curb. Strong supply reported from gravel and sand.
118	52.0	do.	None	--	do.	Drilled well; steel casing. Water reported in gravel.
119	36	<u>e/</u>	C,W	D,S	River bottoms	Estimated yield, 2000 gallons in 30 hours.
120	55	<u>e/</u>	C,W	D,S	Gentle slope	
121	--	--	C,W	D,S	Hill-top	Concrete curb. Water reported in gravel.
122	20.6	Apr. 1, 1936	--	N	Hill-side	Wood curb; rock casing. Water reported in sand.
123	35.9	do.	C,W	D,S	do.	Do.
124	26.4	May 16, 1936	--	--	--	Water reported in gravel.
125	47	<u>e/</u>	C,W	--	Hill-side	Estimated yield, 12,000 gallons in 34 hours.
126	31	<u>e/</u>	C,W	D,S	Hill-top	Rock curb and casing. Reported pumps dry in drought.
127	35.9	Mar. 18, 1936	C,G,-	D,S	do.	Reported pumps dry in drought.
128	28.7	do.	None	N	River terrace	Wood curb; rock casing. Water reported in sand.
129	21	<u>e/</u>	--	N	Hill-side	Do.
130	21	<u>e/</u>	C,-	D,S	do.	Drilled well.
131	--	--	C,H	S	River terrace	Drilled well; steel casing.
132	13.0	Apr. 1, 1936	B,H	D,S	--	Rock curb and casing.
133	38	<u>e/</u>	C,-	D,S	Hill-top	Bored well; steel casing. Estimated yield, 1,500 gallons in 1 hour.
134	12	<u>e/</u>	C,W	D,S	River terrace	Drilled well.
135	25	Apr. 1, 1936	B,H	D,S	Hill-side	Wood curb; rock casing.
136	37.7	do.	B,H	N	Hill-top	Masonry curb and casing.
137	23.7	Mar. 18, 1936	--	--	do.	Drilled well; steel casing.
138	18.9	do.	--	D	do.	Rock curb; rock casing. Strong supply reported from sand.
139	92	<u>e/</u>	--	D,S	Hill-	Drilled well; galvanized casing. Strong

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
<u>d/140</u>	11 miles east	Jose de la Baume	Mrs. Ottlie Johns	--	--	--	60	--
141	do.	do.	do.	--	--	26	48	1.5
<u>d/142</u>	10 $\frac{1}{2}$ miles southeast	do.	Mike Cain	--	1933	11	6	--
<u>d/143</u>	do.	do.	do.	--	--	22	72	--
<u>d/144</u>	do.	do.	do.	--	--	86	--	--
<u>d/145</u>	10 miles east	do.	John F. Wilson	--	1906	61	--	--
146	do.	do.	Otto C. Johns	--	--	31	30	4
147	do.	Jose K. Davis	Ottlie Johns	--	--	29	36	0
148	10 $\frac{1}{2}$ miles east	do.	Duies Johns	--	1920	76	--	1.7
149	10 miles east	do.	Herman Johns	--	1897	54	48	3
150	9 $\frac{1}{2}$ miles east	do.	Ottlie Johns	--	--	53	42	1
151	10 miles east	do.	do.	--	--	48	--	4
152	do.	do.	O. H. Johns	--	--	56	6	1.2
153	9 $\frac{1}{2}$ miles east	Green Dewitt	Ed. Grimm	--	1913	57	6	1.2
<u>d/154</u>	do.	do.	Maria Williams	--	1906	72	--	1.8
155	do.	do.	Ada Williams	--	--	29	5	2
156	do.	do.	do.	--	--	39	--	3.5
157	9 miles east	do.	Robert Turner	--	1880	52	48	4.4
158	9 $\frac{1}{2}$ miles east	do.	Adolph ...	--	1924	47	6	2.6
159	do.	do.	Adolph ... Erwin Grimm	--	--	74	48	3
160	9 miles east	do.	Ada Williams	--	--	15	36	0
161	do.	do.	P. H. Knodel	--	1920	42	48	1.5
162	8 miles southeast	do.	Dr. N. A. Poth	--	--	54	--	1.6
163	9 miles southeast	do.	Rachel Turner Est.	--	1880	12	48	1
164	8 $\frac{1}{2}$ miles southeast	do.	Joe Brooks	--	1932	44	60	2
165	do.	do.	Alfred Eichenrodt Est.	--	--	34	54	3.1
<u>d/166</u>	do.	do.	Reno Eichenrodt	Cecil Mulholland	--	2,800	14	--

E. S. Altgelt and E. J. [unclear], Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measurement point (feet)	Date of measurement				
140	--	--	None	N	Hill-top	Rock casing. Reported caved at 6 feet.
141	13.8	Mar. 18, 1936	--	D,S	Creek bottoms	Rock curb and casing. Strong supply reported from sand.
142	--	--	--	--	Hill-side	Drilled well; galvanized casing. Reported caved at 3 feet.
143	19	<u>e/</u>	None	N	do.	Log curb and casing. Reported caved at 6 feet. Reported mineralized.
144	--	--	None	N	--	Reported caved. Water reported in blue sand.
145	--	--	None	N	Hill-side	Water reported in sand. Reported highly mineralized.
146	12.9	May 16, 1936	B,H	S	do.	Wood curb; rock casing. Water reported in sand.
147	18.7	May 18, 1936	None	S	do.	Rock curb and casing.
148	37.3	May 16, 1936	B,H	--	River terrace	Drilled well.
149	44.6	do.	C,W	--	do.	Estimated yield, 7,000 gallons in 8 hours.
150	38.5	May 18, 1936	C,H	D,S	Hill-side	Log curb; rock casing. Water reported in sand and gravel.
151	30.5	do.	B,H	D,S	Hill-top	Wood curb. Reported rise in water level after installation of dams on Guadalupe River.
152	40.2	May 16, 1936	B,H	D	River terrace	Drilled well; steel casing. Water reported in sand.
153	45.4	May 18, 1936	C,W, & H	D,S	Hill-top	Drilled well; steel casing.
154	71.9	May 15, 1936	None	N	Hill-side	Drilled well. Reported sealed off with clay. Reported highly mineralized.
155	27	May 16, 1936	None	D	Hill-side	Drilled well; galvanized casing.
156	31.8	May 14, 1936	--	N	do.	Wood curb. Water reported in sand.
157	42.6	May 18, 1936	B,H	S	do.	Wood curb; rock casing. Water reported in sand.
158	32.4	May 14, 1936	B,H	D	Hill-top	Drilled well; steel casing.
159	64.5	May 18, 1936	C,W	D	River terrace	Wood curb; rock casing. Water reported in sandy clay.
160	7	May 15, 1936	None	S	Hill-side	Rock casing. Reported used only during drought.
161	37.5	May 14, 1936	B,H	S	Hill-top	Galvanized casing. Reported water level varies with stages of Guadalupe River.
162	52.4	Apr. 18, 1936	C,W	D,S	do.	Rock curb and casing. Reported slight draw-down after pumping 50 gallons an hour for 48
163	4	May 14, 1936	B,H	D	Creek terrace	Rock curb and casing. [unclear] hours.
164	30.7	do.	B,H	D	Hill-side	Galvanized casing. Reported weak supply in dry weather.
165	30	Apr. 18, 1936	--	D,S	do.	Galvanized casing. Water reported in sand.
166	--	--	--	--	--	One test. Reported strong supply of water at [unclear] feet when drilling.

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
167	9 miles southeast	Green Dewitt	Joe Brooks	--	--	20	24	1.1
168	10 miles southeast	do.	Will Blanks	--	--	52	48	3
169	10½ miles southeast	do.	Preston Duncan	--	1926	26	6	3
170	do.	do.	do.	--	--	136	48	3.5
d/177	12½ miles southeast	Jose de la Baume	C. M. Wells	Grayburg Oil Co.	1930	3,954	15½	--
d/179	13 miles southeast	do.	do.	--	--	102	6	1.3
d/182	do.	Patrick Lynch	do.	--	--	28	60	1.9
d/185	11½ miles southeast	Thos. J. Weeks	do.	--	--	49	6	--
191	8½ miles southeast	Jos. D. Clements	Mrs. Minna Buehring	--	--	49	--	2.9
192	8 miles southeast	do.	A. Fortune	--	--	35	48	3
193	do.	do.	do.	--	1900	83	56	2.1
194	7½ miles southeast	do.	Edward Moss	--	1931	60	--	2.8
d/197	7 miles east	do.	J. Gutzke	R. V. Muckleroy	1936	290	10	--
198	8 miles east	Green Dewitt	J. Caddell	--	--	45	36	1.2
199	6½ miles east	G. W. Williams	Joe Wolf	--	--	90	30	0.7
200	8 miles east	Rob't. Hall	--	--	1886	60	36	0.3
201	6 miles east	Lewis Besinger	F. F. Klein	--	--	53	36	1.8
202	4¾ miles east	John G. King	H. W. Dolle	--	--	65	36	1.8
203	3½ miles east	B. Fuguaway	H. Krezdorn	--	--	70	6	0.9
205	2 miles northeast	Jno. Sowell	Co. Poor	--	--	30	36	1.4
206	2¾ miles northeast	J. R. Bedford	A. Just	A. Just	1918	31	36	0.6
207	1½ miles northeast	Umphries Branch	Mrs. J. A. Schriever	--	--	20	36	2.7
208	1¼ miles east	Jno. Sowell	Mrs. Bessie Leber	--	--	31	36	3
209a	In Seguin	Block 454	Mrs. A. D. Colville	--	--	Spring	--	--
211	do.	--	City of Seguin	--	--	--	--	--

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

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

E. S. Altgelt and E. J. Michal, Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
167	10.9	May 14, 1936	None	--	--	Galvanized casing. Reported fails in drought.
168	50.4	May 15, 1936	B,H	D	Hill-side	Wood curb; rock casing. Reported used only during drought.
169	21.9	do.	None	--	do.	Drilled well; galvanized casing. Water reported in sand.
170	10.2	do.	E,H	D	do.	Wood curb and casing.
177	--	--	None	N	--	Oil test. See log.
179	35.7	Apr. 8, 1936	--	--	Hill-side	Drilled well; steel casing.
182	25.4	Mar. 11, 1936	B,H	D,S	Hill-top	Wood curb. See log.
185	--	--	C,W	S	Hill-side	Drilled well; steel casing.
191	26.5	Apr. 18, 1936	C,W	S	Hill-top	Wood curb. Reported weak supply.
192	28.6	do.	--	--	Hill-side	Wood curb; rock casing. Reported water leaks into dry formation.
193	77.9	do.	--	D,S	Hill-top	Rock casing.
194	57.1	do.	C,W	D,S	Hill-side	Concrete black curb. Reported dry after pumping 3 gallons a minute for 2 hours.
197	--	--	--	--	River terrace	Drilled well.
198	31.3	Sept. 23, 1936	C,W	D,S	River bottoms	Rock curb and casing. Strong supply.
199	79.8	do.	C,W	D,S	Rolling	Brick curb and casing. Strong supply.
200	21.4	Sept. 22, 1936	B,H	D,S	do.	Rock curb and casing. Strong supply.
201	32.4	do.	C,W	D,S	do.	Brick curb and casing. Strong supply.
202	55.7	do.	C,W	D,S	do.	Concrete curb; brick casing. Strong supply.
203	68.2	do.	C,W	D,S	do.	Drilled well; steel casing.
205	24.4	Oct. 5, 1936	C,W	D,S	do.	Concrete curb; brick casing. Strong supply.
206	24.5	do.	C,G,-	D,S	do.	Concrete curb; concrete casing.
207	10.7	do.	B,H	D,S	do.	Brick curb and casing. Strong supply.
208	25.5	Sept. 22, 1936	B,H	D,S	--	Concrete curb; brick casing, 0-7 feet. Water reported from gravel at 30 feet.
209a	Flows	June 15, 1936	None	N	Creek bottoms	.
211	--	--	--	P	River bottoms	Estimated yield, 385,000 gallons a day for 30 days.

c/ D, domestic; S, stock; N, not used; Ind, industrial; P, public; Of, oil field.

d/ No water sample collected for analysis.

e/ Water level reported.



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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) $\frac{e}{f}$
212	In Seguin	Block 454	City of Seguin	--	--	--	--	--
<u>d/213</u>	2 miles southeast	Jno. Sowell	E. Kolte, et al.	Riddle Oil Co.	1936	1,856	10	--
214	2 $\frac{1}{2}$ miles east	do.	E. Boecker	--	1908	63	36	0
215	3 $\frac{3}{4}$ miles east	Jno. G. King	Mrs. Max Blume	Max Blume	1906	40	36	2.2
216	5 miles southeast	Jesus Cantu	P. K. Delaney	P. K. Delaney	1896	68	60	1.3
<u>d/219</u>	do.	do.	do.	do.	--	96	6	--
<u>d/220</u>	5 $\frac{1}{2}$ miles southeast	do.	do.	W. J. Walton, et al.	1937	2,350	10	--
221	do.	do.	John Moss	--	--	149	--	--
222	5 $\frac{1}{2}$ miles east	Jos. D. Clements	Mrs. G. S. Fleming	--	--	77	42	3.1
223	6 miles east	do.	Mrs. Clinton Fleming	--	1908	61	5	5.1
224	6 $\frac{1}{2}$ miles southeast	do.	Frank Zoboroski	--	1875	60	54	1.2
225	7 miles southeast	Jos. D. Clements	F. Atzger	--	190-	46	42	2.9
226	do.	do.	Frank Zoboroski	--	--	42	36	2.7
227	6 $\frac{1}{2}$ miles southeast	do.	John McColough	--	--	48	54	3
228	do.	do.	do.	--	--	28	4	7.6
229	7 miles southeast	do.	F. Moss	--	1911	60	30	1
<u>d/230</u>	7 $\frac{1}{2}$ miles southeast	do.	E. Atzger	--	--	--	6	--
<u>d/231</u>	do.	do.	do.	--	--	56	36	--
232	do.	do.	Max Zoboroski	--	--	115	--	--
<u>d/233</u>	8 miles southeast	do.	Anton Zoboroski	Grayburg Oil Co.	1931	2,192	10	--
<u>d/235</u>	7 miles southeast	do.	Marvin Linartz	--	1915	200	5	--
236	do.	Jesus Cantu	Walter Grimm	--	1911	130	8	--
237	do.	do.	Albert Coleman	-- Harbold	1910	87	8	2.2
239	6 $\frac{1}{2}$ miles southeast	do.	Will Banks	--	--	--	5	--
<u>d/242</u>	6 miles southeast	do.	F. F. Klein	--	--	130	5	--
<u>d/243</u>	6 $\frac{1}{2}$ miles southeast	Jos. D. Clements	-- Benzinger	--	--	43	5	--
244	do.	do.	Otto Benzinger	--	--	92	6	--

## E. S. Altgelt and E. J. McNeil, Project Superintendents

No.	Water Level		Pump and power b/	Use of water c/	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
212	--	--	--	P	River bottoms	Estimated yield, 385,000 gallons a day for 30 days.
213	--	--	None	N	--	Oil test. See log.
214	53.7	Sept. 23, 1936	C, V	D, S	Rollins	Brick curb and casing. Strong supply reported from dark sandstone.
215	30.6	do.	C, W	D, S	do.	Concrete curb; brick casing. Reported pumps dry. Water reported from white sand.
216	58.3	Mar. 31, 1936	C, W	D, S	River terrace	Brick curb; rock casing. Strong supply.
219	66	e/	C, -	S	Hill-top	Drilled well; galvanized casing. Strong supply.
220	--	--	None	N	--	Oil test. See log.
221	--	--	--	--	River terrace	
222	73.3	Mar. 27, 1936	--	D	do.	Wood curb; masonry casing.
223	44.3	do.	C, V	D, S	do.	Drilled well.
224	26.7	do.	C, V	D, S	do.	Wood curb; rock casing. Strong supply.
225	41.9	Mar. 20, 1936	--	D	Hill-side	Wood curb; rock casing.
226	26.7	Mar. 22, 1936	--	--	do.	Wood curb and casing. Water reported from sand.
227	39.8	Mar. 20, 1936	--	--	do.	Do.
228	10.8	do.	C, V	S	Creek bottoms	Drilled well; galvanized casing. Reported seeps from creek.
229	51.2	do.	C, W	--	Hill-side	Sandstone curb; rock casing. Reported slight drawdown after pumping 2000 gallons.
230	--	--	B, H	S	Hill-top	Drilled well; galvanized casing.
231		Mar. 20, 1936	B, H	--	Hill-side	Rock curb and casing.
232	88	e/	C, W, H	D, S	do.	Galvanized casing. Reported slight drawdown in 24 hours.
233	--	--	None	N	--	Oil test. See log.
235	100	e/	C, V, & G, -	--	Hill-top	Drilled well; galvanized casing. Water reported in sand.
236	90	e/	C, H	S	Hill-side	Do.
237	82.8	Mar. 19, 1936	B, H	S	do.	Do.
239	--	--	C, H	D, S	do.	Do.
242	90	e/	C, H	S	do.	Do.
243	--	--	B, H	S	do.	Do.
244	60	e/	C, W	S	do.	Do.

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
d/245	6 miles southeast	Jesus Cantu	Max Zchoroski	--	1936	100	5	1.1
247	3 $\frac{3}{4}$ miles southeast	do.	Alb. Krans	--	1901	50	36	2.4
248	5 $\frac{1}{2}$ miles southeast	do.	Henry Brodt	--	1916	93	4	2
249	5 miles southeast	do.	Fritz Brodt Est.	--	--	--	5	--
d/250	5 $\frac{1}{2}$ miles southeast	do.	Mrs. Ann Nitseh	--	--	46	--	--
251	5 miles southeast	do.	do.	--	--	--	6	--
252	6 miles southeast	do.	August Brodt	--	--	130	6	--
253	6 $\frac{1}{2}$ miles southeast	do.	Herman Kuhn	--	--	--	6	--
d/255	7 miles southeast	Jesus Cantu	Cordelia Miller	--	1916	100	--	--
d/256	do.	Jas. Alley	Josephine McClarity	--	--	95	5	1.7
d/259	8 $\frac{1}{2}$ miles southeast	Richard Nixon	Mrs. Wm. Hartwig	--	--	--	6	--
261	do.	do.	do.	--	--	Spring	--	--
267	10 miles southeast	H. & T. C. R. R. Co. 6	J. D. Dibrell	--	--	150	4	--
d/274	11 $\frac{1}{2}$ miles southeast	Thos. J. Weeks	C. M. Wells	--	--	11	3	1.3
276	13 miles southeast	Patrick Lynch	Walter Davenport	--	--	52	6	2
277	do.	do.	A. W. Batey Est.	--	--	Spring	--	--
279	13 $\frac{1}{2}$ miles southeast	do.	J. E. Batey	J. E. Batey	1930	57	---	2.9
280	do.	do.	A. W. Batey Est.	--	1900	45	4	1
d/281	14 miles southeast	do.	do.	--	--	36	4	--
282	do.	do.	do.	--	1934	100	--	--
d/283	do.	do.	R. I. Batey	--	--	48	5	3
284	do.	do.	Robt. Russel	Rob't. Russel, Sr.	1890	56	48	0
286	13 $\frac{1}{2}$ miles southeast	do.	J. L. Lackey	--	1920	12	3.2	1.6
d/287	13 miles southeast	do.	G. Lackey	--	--	--	5	1.3
288	do.	do.	Mrs. N. J. Lackey	--	--	50	36	1.5
289	do.	do.	Stephen Cowey	Jim Cowey	1908	55	6	0.9
290	do.	do.	do.	Stephen Cowey, et al	1935	21	5	1.2

## E. S. Altgelt and E. J. Michel, Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
245	85.2	Mar. 25, 1936	C, V	S	Hill-side	Drilled well; galvanized casing.
247	30	Oct. 1, 1936	C, V	D, S	Rolling	Wood curb; rock casing. Strong supply.
248	63.7	Mar. 26, 1936	--	--	Hill-side	Drilled well; galvanized casing.
249	--	--	C, H	D, S	do.	Do.
250	--	--	B, H	D, S	do.	Do.
251	--	--	--	D, S	Hill-top	Do.
252	100	<u>e/</u>	C, V	D, S	Hill-side	Do.
253	102	<u>e/</u>	--	D, S	Hill-top	Do.
255	--	--	--	--	--	Drilled well.
256	79.2	Mar. 25, 1936	--	D, S	Hill-side	Drilled well; galvanized casing.
259	--	--	None	N	do.	Oil test. Galvanized casing.
261	Flows	Mar. 30, 1936	--	S	Creek bottoms	Estimated flow, 20 gallons a minute from sand.
267	30	<u>e/</u>	C, V	D, S	Hill-side	Drilled well; steel casing.
274	10.7	Apr. 11, 1936	--	S	do.	Drilled well.
276	50.4	Mar. 10, 1936	--	D, S	Hill-top	Drilled well; galvanized casing.
277	Flows	Mar. 13, 1936	--	--	Creek bottoms	Estimated flow, 1 gallon a minute from 1 opening in sand.
279	45.4	Mar. 11, 1936	--	D, S	--	Drilled well.
280	41.1	do.	B, H	D, S	Hill-side	Drilled well; galvanized casing.
281	--	--	--	--	do.	Drilled well; steel casing. Reported sanded up.
282	50	<u>e/</u>	C, H	D	do.	Drilled well; steel casing.
283	41.2	Mar. 12, 1936	--	D	do.	Drilled well; galvanized casing.
284	5.5	do.	--	D, S	do.	Rock curb and casing.
286	2.9	Mar. 10, 1936	--	--	Creek bottoms	Driven well; galvanized casing. Reported seeps from Sandies Creek.
287	46.5	Mar. 12, 1936	B, H	D, S	Hill-side	Drilled well.
288	40.7	do.	--	S	Hill-top	Wood curb; rock casing.
289	37.7	do.	--	D, S	Hill-side	Drilled well; galvanized casing.
290	10.9	do.	--	--	Creek bottoms	Drilled well; concrete block curb.

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) $\frac{a}{b}$
<u>d/292</u>	13 miles southeast	Patrick Lynch	Stephen Cowley	--	--	53	30	0.8
293	13 $\frac{1}{2}$ miles southeast	do.	Lloyd Clark	--	--	65	36	2.7
<u>d/295</u>	14 $\frac{1}{2}$ miles southeast	do.	Smith Davenport	--	--	1,400	4	--
296	do.	do.	P. S. Schmitzer	H. S. Schmitzer	1916	89	6	2
<u>d/298</u>	15 miles southeast	A. Clements	R. A. Baessler	--	1888	78	66	4.5
<u>d/301</u>	12 miles southeast	E. P. Myrick	San Antonio Loan & Trust Co.	--	--	92	30	--
305	do.	Jno. A. Batey	A. W. Batey Est.	--	--	Spring	--	--
310	11 miles southeast	H. & T. C. R. R. Co. 12	C. H. Schmidt	--	--	46	48	3.1
<u>d/313</u>	10 $\frac{1}{2}$ miles southeast	H. & T. J. R. R. Co. 10	R. L. Batey	--	--	150	--	--
<u>d/315</u>	11 $\frac{1}{2}$ miles southeast	H. & T. C. R. R. Co. 14	A. W. Batey Est.	--	--	90	84	--
318	10 $\frac{1}{2}$ miles south	H. & T. J. R. R. Co. 16	H. H. Weinert	--	--	165	5	--
<u>d/324</u>	8 $\frac{1}{2}$ miles southeast	State School	Dr. A. H. Neighbors	Ben Randall	1930	140	6	--
326	do.	do.	do.	--	1936	80	36	1
327	do.	G. W. Davis	Robt. Ball	--	1905	44	--	4
328	8 miles southeast	do.	Calli. A. Wilson	--	1919	165	--	--
329	6 $\frac{1}{2}$ miles southeast	Jas. Alley	Mrs. Emma Dibrell	--	--	--	5	--
<u>d/333</u>	8 $\frac{1}{2}$ miles south	R. White	H. F. Weinert	--	--	165	4	0
<u>d/336</u>	10 miles south	H. & T. J. R. R. Co. 20	do.	--	--	39	6	--
337	11 $\frac{1}{2}$ miles south	H. & T. C. R. R. Co. 21	do.	--	--	--	--	--
<u>d/339</u>	do.	H. & T. J. R. R. Co. 22	do.	--	--	--	4	--
<u>d/340</u>	do.	W. V. Estell	do.	--	1902	171	5	--
<u>d/343</u>	12 $\frac{1}{2}$ miles south	T. J. Southern	E. A. Adcock	--	--	37	60	1
345	13 miles south	C. Smith	W. H. Lynn	--	189-	14	48	--
<u>d/346</u>	do.	Jos. Wilder	E. A. Vaughan	Sun Oil Co.	1931	136	6	--
<u>d/347</u>	12 $\frac{1}{2}$ miles south	do.	do.	--	1921	119	--	--
348	do.	do.	do.	Terry Talley	1936	128	4	--
349	13 miles south	A. Hethcock	G. G. Dietzel	G. G. Dietzel	1919	153	5	--

## E. S. Altgelt and E. J. Michal, Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
292	25.9	Mar. 13, 1936	--	--	Hill-side	Rock casing.
293	49.7	Mar. 11, 1936	--	D,S	do.	Wood curb; rock casing.
295	--	--	None	N	do.	Drilled well; steel casing. Plugged at 3 feet.
296	82.2	Feb. 27, 1936	--	--	Hill-top	Drilled well; galvanized casing. Water reported from sand.
298	74.2	do.	--	--	--	Wood curb; rock casing. Strong supply reported from sand.
301	--	--	None	N	Ridge-top	Rock casing. Reported abandoned.
305	Flows	Feb. 24, 1936	--	S	Creek bottoms	Reported supplied 700 head of cattle from 1888 to 1907.
310	37.2	Mar. 8, 1936	None	N	Hill-side	Wood curb; rock casing. Strong supply reported in sand.
313	--	--	None	N	Gentle slope	
315	--	--	--	--	Ridge-top	Rock casing.
318	160	<u>e/</u>			Gentle slope	Drilled well.
324	--	--	C,W	S	do.	Do.
326	78.6	Mar. 24, 1936	--	--	Hill-side	Brick curb; rock casing.
327	25.5				do.	Wood curb; rock casing. Water reported from sand.
328	--	--	C,W	S	do.	Drilled well; galvanized casing.
329	--	--	C,-	S	do.	Do.
333	3.2	Feb. 10, 1936	--	S	do.	Driven well. Strong supply reported from loose sand.
336	--	--	--	--	--	Drilled well. Reported sanded up.
337	--	--	C,W	S	Flat	Drilled well.
339	--	--	--	--	Hill-side	Drilled well; steel casing. Reported depth, 225-600 feet.
340	165	<u>e/</u>	None	N	--	Drilled well.
343	19.1	Feb. 14, 1936	C,W	D,S	Hill-side	Wood curb; rock casing. Strong supply.
345	2.1	Feb. 21, 1936	--	D,S	do.	Rock curb and casing. Reported pumps dry.
346	--	--	--	--	Flat	Drilled well; steel casing. Reported drilled to 600 feet and plugged back to 136 feet.
347	--	--	None	N	--	Drilled well. Reported pumps dry.
348	--	--	C,H	D	Flat	Drilled well. Reported sand, 0-88 feet; clay, 88-128 feet. Strong supply.
349	--	--	B,H	D,S	Hill-top	Drilled well. Water level reported over 102 feet. Strong supply.

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

No.	Distance from Seguin	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>
<u>d/351</u>	12 miles south	C. Bell	H. H. Weinert	--	--	36	8	--
352	11 $\frac{1}{2}$ miles south	H. & T. C. R. R. Co. 26	do.	--	--	165	3 $\frac{1}{2}$	1
<u>d/357</u>	do.	do.	do.	Sun Oil Co.	1926	188	30	--
<u>d/362</u>	do.	H. & T. C. R. R. Co. 27	West End Lumber Co.	--	--	125	6	--
<u>d/367</u>	10 miles south	H. & T. C. R. R. Co. 24	H. E. Weinert	--	--	--	4	--
369	9 $\frac{1}{2}$ miles south	E. B. Thomas	W. J. Blanks	--	--	Spring	--	--
<u>d/370</u>	9 miles south	J. H. Williamson	J. Seligman	--	1933	150	10	--
371	7 miles south	T. A. McBride	Harry Snyder	--	1934	75	6	0
372	6 miles south	E. Nowland	Ed. Eckols, Sr.	Ed. Eckols, Jr.	1932	31	6	0.7
373	4 $\frac{1}{4}$ miles south	Eligio Gortari	M. Dibrell	Jim Millett	1920	56	36	2.6
374	do.	do.	A. Springs	--	--	100	6	0.2
375	4 miles south	Anast O. Mansola	H. A. Gumbert	Charles Best	1900	75	6	1.5
376	4 $\frac{1}{4}$ miles southwest	H. M. Swift	E. Schultz	--	--	120	6	1.1
377	4 $\frac{1}{2}$ miles southwest	R. C. Davis	F. Acker	-- Gorman	1914	95	6	--
378	7 miles southwest	George Waters	P. Woelke	S. Wright	1932	123	6	0
<u>d/379</u>	9 miles southwest	L. H. Peters	James Singletary	do.	1926	97	6	1.2
380	9 $\frac{1}{2}$ miles south	J. O. Blair	Hiram Jackson	--	--	81	48	0.3
381	do.	do.	Jerry McIntyre	--	--	44	24	2.8
383	10 miles south	do.	Gene Wilcox	--	1934	42	6	0
<u>d/384</u>	9 $\frac{1}{2}$ miles south	do.	Tom Wilcox	Tom Cowey	1909	141	6	--
<u>d/385</u>	10 miles south	do.	Rehabilita-tion	--	1934	94	6	2
388	do.	do.	F. W. Schrup	--	1936	34	24	1
389	do.	do.	do.	--	--	92	--	0
<u>d/391</u>	10 $\frac{1}{2}$ miles south	E. Smith	J. R. Kubone	--	1880	75	--	0
392	11 miles south	do.	Anna Hoermann	--	1880	76	42	0

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

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

E. S. Altgelt and E. J. Michal, Project Superintendents

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
351	--	--	C,W	S	Creek bottoms	Drilled well; steel casing.
352	166	Feb. 4, 1936	C,W	S	Gentle slope	Do.
357	--	--	None	N	do.	Galvanized casing. Reported test for bacteria.
362	123	<u>e/</u>	C,W	S	do.	Drilled well.
367	--	--	C,W	D	do.	Drilled well; steel casing.
369	Flows	--	--	D,S	Undulating	Estimated yield, 15 gallons a minute from 6 openings in sand.
370	103	<u>e/</u>	--	Ind.	Hill-side	Drilled well; steel casing. Reported pumped 24 hours daily during highway construction.
371	65	Oct. 1, 1936	C,H	D,S	Rolling	Drilled well; steel casing. Strong supply.
372	28.2	do.	C,H	D,S	do.	Drilled well; steel casing. Strong supply reported from white sand. See log.
373	43.6	do.	C,W	D,S	do.	Concrete curb; rock casing. Strong supply reported from white sand.
374	96.5	Oct. 9, 1936	C,W	D,S	Hill-top	Drilled well; steel casing.
375	50.3	do.	C,W	D,S	do.	Drilled well; steel casing. Strong supply reported from blue sand.
376	67.1	do.	C,W	D,S	Hill-side	Drilled well; steel casing. Strong supply.
377	80	<u>e/</u>	C,W	D,S	do.	Do.
378	118	Oct. 8, 1936	C,W	D,S	Hill-top	Do.
379	81.5	do.	None	N	Rolling	Do.
380	69.3	Feb. 17, 1936	C,-	D,S	Hill-side	Rock curb and casing. Strong supply.
381	41.3	do.	--	D,S	--	Wood curb; rock casing. Strong supply.
383	36.7	do.	B,H	D,S	Hill-side	Drilled well; galvanized casing.
384	121	<u>e/</u>	C,G, 1 1/2	D,S	Flat	Driven well. Strong supply reported from gravel and black sand.
385	90.2	Jan. 22, 1936	--	--	Creek bottoms	Drilled well; galvanized casing.
388	26.2	May 11, 1936	C,G, 1 1/2	S	Hill-side	Concrete curb; vitrified casing. Reported 6 foot drawdown pumping 500 gallons for 1
389	84.1	do.	--	S	do.	Drilled well. hour.
391	66.9	Jan. 8, 1936	C,W	D,S	Creek terrace	Sandstone curb; rock casing.
392	65.7	Jan. 9, 1936	C,H	S	Hill-top	Wood curb; rock casing. Strong supply.

c/ D, domestic; S, stock; N, not used; Ind, industrial; P, public; Of, oil field.

d/ No water sample collected for analysis.

e/ Water level reported.



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

No.	Distance from	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Weight of casing around (ft.) <u>a/</u>
397	11 miles south	H. & T. J. R. R. Co. 30	Hiram Jackson	--	--	14	42	0
<u>d/404</u>	12 miles south	H. & T. J. R. R. Co. 32	P. J. Scully	--	--	140	4	--
412	10 $\frac{1}{2}$ miles south	T. Long	Pelton Pitts	--	--	45	7	0.5
413	10 miles south	do.	Levy Dickerson	Silas Wright	--	86	--	0.5
414	10 $\frac{1}{2}$ miles south	V. Bennett	A. Elsen	--	--	46	60	3
<u>d/415</u>	10 miles south	do.	S. Elsen	Tidal Oil Co.	1932	2,806	10	--
416	11 miles south	T. Long	H. Peter	--	--	72	27	0
418	11 $\frac{1}{2}$ miles south	C. C. Williams	F. W. Schraub	--	--	37	36	0
<u>d/423</u>	12 $\frac{1}{2}$ miles south	H. & T. J. R. R. Co. 36	do.	--	--	15	45	0
424	do.	Rob't. R. Tripp	Power Smith	Albert Smith	--	53	45	3.5
425	11 $\frac{1}{2}$ miles south	J. Irvin	Ed. Lembrecht	--	--	Spring	--	--
426	do.	Jas. Murphy	B. Pernitz	--	1910	145	6	--
427	11 miles southwest	J. Isham	A. Achterberg	-- Maragrat	1936	46	6	0.3
428	do.	B. N. White	C. Walker	--	--	39	36	0
429	15 miles southwest	E. Smith	W. Sorrell	--	--	75	36	2.5
430	13 $\frac{1}{2}$ miles southwest	do.	E. Hartfield	--	--	23	36	0
431	12 miles southwest	Vicente Duran	Ed. Felix	Silas Wright	1915	115	4	0.4
432	11 miles southwest	do.	P. Iape	--	--	64	36	1.5
433	10 $\frac{1}{2}$ miles southwest	do.	H. G. Mueller	--	1925	24	--	1.8
434	do.	do.	Ed. Lewis	Robert Stein	1906	70	5 $\frac{1}{2}$	0.7
<u>d/435</u>	do.	do.	W. E. Tolson	Sinclair Oil and Gas Co.	1929	2,075	15 $\frac{1}{2}$	--
438	6 $\frac{1}{2}$ miles southwest	P. Bolinger	P. Holtz	--	1925	135	6	0.2
441	3 $\frac{1}{4}$ miles southwest	Isaac Baker	Aug. Becker	--	--	14	36	0
444	7 miles west	M. Baker	H. J. Rabe, Sr.	--	1931	1,500	6	0
446	11 miles west	Jose Flores	Richard Jung	--	--	26	36	0
448	13 miles southwest	do.	Louis H. Zuehl	--	1932	36	42	1.7
449	13 miles west	do.	Louis Loeb	Louis Loeb	1925	40	36	2.7

## E. S. Altgelt and E. J. Michal, Project Superintendents

No.	Water Level		Pump and power	Use of water	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
397	8.8	Feb. 15, 1936	--	--	Flat	Rock curb and casing. Water reported from sand.
404	125	e/	C,W	D,S	do.	Drilled well; steel casing. Strong supply.
412	39.5	Feb. 29, 1936	--	--	Hill-side	Drilled well; 3 feet galvanized casing at top.
413	77.3	do.	--	D,S	Hill-top	Drilled well.
414	25.5	do.	--	D,S	Gentle slope	Wood curb; rock casing.
415	--	--	None	N	--	Oil test. See log.
416	55.3	Jan. 20, 1936	B,H	D,S	Head of draw	Wood curb; rock casing. Reported water level lowers during drought.
418	10.6	Jan. 14, 1936	B,H	D,S	Hill-side	Rock curb and casing.
423	10.9	Jan. 13, 1936	C,G,3	D,S	Flat	Galvanized casing. Water reported from sand.
424	48.0	Jan. 17, 1936	B,H	D	Hill-side	Wood curb and casing. Water reported from clay.
425	Flows	do.	--	S	Creek bottoms	Estimated flow, 4-5 gallons a minute from fissures in sand. Known locally as Black
426	140	e/	C,W	D,S	Rolling	Drilled well. Reported slight drawdown after continuous pumping. Jack Spring.
427	25.3	Sept. 8, 1936	C,H	D,S	do.	Drilled well; galvanized casing. Water reported from sandstone.
428	37.3	do.	B,H	S	do.	Rock curb and casing.
429	42.2	Sept. 2, 1936	C,W	D,S	do.	Concrete curb; rock casing. Strong supply.
430	13.7	do.	B,H	D	do.	Rock curb and casing. Strong supply.
431	78.4	do.	C,W	D,S	Gentle slope	Drilled well. Water reported from gravel at 20-25 feet.
432	56.9	Sept. 8, 1936	C,W	D,S	Rolling	Drilled casing. Strong supply.
433	9.3	June 2, 1936	C,G,3	P	Hill-side	Galvanized casing. Reported drawdown, 11 feet after pumping 1000 gallons for 5 hours.
434	49	Sept. 2, 1936	C,W	D,S	Rolling	Drilled well; iron casing. Strong supply of water reported from green sand.
435	--	--	None	N	--	Oil test. See log.
438	92	Sept. 8, 1936	C,W	D,S	Rolling	Drilled well; steel casing. Strong supply.
441	8.8	Sept. 9, 1936	B,H	D,S	River bottoms	Reported fluctuates with river levels.
444	2.5	do.	--	S	Swampy	Oil test.
446	12.9	Sept. 5, 1936	B,H	S	Rolling	Brick curb and casing. Strong supply.
448	31	June 2, 1936	C,E, $\frac{1}{2}$	D	River terrace	Galvanized casing.
449	30.4	Sept. 5, 1936	B,H	D,S	Rolling	Concrete curb. Strong supply reported from gravel at 37-38 feet.

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

No.	Distance from	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>
450	11½ miles west	W. Bracken	A.F. Ditzke	--	1918	29	36	0
451	13 miles west	Jose Flores	E. Stolar	--	--	17	36	0.2
452	10½ miles west	Claibourn Rector	J. Pover	Abendorfer Drilling Co.	1913	3,169	6	--
453	13 miles west	Geronimo Leal	Alfred Schraub	--	--	23	36	0
454	15 miles west	W. Bracken	Mrs. Willie Doern	--	--	45	36	0
455	15½ miles west	D. Miller	Cibolo Farmers Gir	W. Margle	--	440	6	1.5
456	15 miles west	Geronimo Leal	Adolph Reiley	--	--	100	8	1
457	16 miles west	A. S. Lewis	Henry Riley	--	--	160	6	1.6
458	18½ miles west	Genobera Malpez	W. J. Schertz	W. J. Schertz	1850	60	60	--
459	19½ miles west	Toribio Herrera	August Habermann	--	--	45	36	1.5
d/460	13 miles west	E. de los Santos Joy	Mrs. Minnie Kendall, et al.	R. J. Gode	1935	1,935	10	--
462	12 miles west	J. Leal	O. Voges	Henry Wiel	--	326	5	--
463	10½ miles west	Claibourn Rector	E. A. Huebinger	E. A. Huebinger	1920	22	36	1.3
469	12 miles west	Jno. Thompson	City of Merion	--	1933	--	10	--
d/470	do.	do.	do.	--	1933	27	--	3

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

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

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Topographic situation	Remarks
	Depth below measuring point (feet)	Date of measurement				
450	15.6	Sept. 5, 1936	C, W	S	Rolling	Brick curb and casing. Strong supply.
451	12.1	do.	C, W	D, S	Flat	Wood curb; rock casing.
452	Flows	Oct. 2, 1936	None	N	Rolling	Drilled well; 2400 feet 6-inch casing at top. See log.
453	17.7	Sept. 5, 1936	C, W	D, S	do.	Steel casing. Strong supply.
454	32.2	do.	C, W	S	do.	Brick curb and casing.
455	32.8	do.	C, E, 5	N	do.	Drilled well; steel casing. Weak supply.
456	53.8	Sept. 4, 1936	C, W	D, S	do.	Drilled well; cast iron casing. Strong supply.
457	14.4	Sept. 2, 1936	C, W	S	do.	Drilled well; steel casing. Weak supply.
458	48	<u>e/</u>	T, E, 5	D, P	Creek bottoms	Rock casing. Reported irrigated 25 acres in 1925.
459	43.1	Sept. 4, 1936	C, W	D, S	Rolling	Concrete curb; rock casing. Strong supply.
460	--	--	None	N	--	See log.
462	105	<u>e/</u>	C, G, 2	S	Rolling	Drilled well; steel casing. Reported struck water sand at 523 feet.
463	7.6	Sept. 5, 1936	C, W	S	do.	Brick curb and casing. Water reported in gravel.
469	3.5	<u>e/</u>	--	P	Hill-side	Drilled well; steel casing. Reported 13 feet drawdown after pumping 240 gallons an hour for 12 hours.
470	3.6	Jan. 2, 1936	None	P	do.	Drilled well; steel casing. Reported reserve well for City of Marion.

c/ D, domestic; S, stock; N, not used; Ind, industrial; P, public; Of oil field.

d/ No water sample collected for analysis.

e/ Water level reported.

-5-  
Table of Drillers' Logs, Deluge County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 3</u>		
R. P. Lowman tract, Geo. Allen survey, 15 miles northeast of Seguin.		
Surface materials - - - - -	3	3
Coarse gravel - - - - -	12	15
Yellow clay and gravel - - -	45	60
Blue clay - - - - -	12	72
Rock - - - - -	5	77
Blue clay - - - - -	5	82
Rock - - - - -	2	84
Blue clay - - - - -	33	117
Shale and boulders - - - -	560	677
Hard gray sandy shale - - -	20	697
Chalk - - - - -	188	885
Lignite - - - - -	21	906
Limestone - - - - -	44	950
Hard blue limestone - - - -	4	954
Clay - - - - -	56	1010
Blue-gray limestone - - - -	49	1059
Brown limestone - - - - -	59	1118
TOTAL DEPTH - - - - -		1118

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 9</u>		
E. R. Voight farm, Antonio Maria Esnaurrizar survey, 9 miles northwest of Seguin.		
Surface materials - - - - -	6	6
Yellow clay - - - - -	11	17
Adobe and hard clay - - - -	11	28
Yellow clay - - - - -	5	33
Gravel - - - - -	6	39
TOTAL DEPTH - - - - -		39

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 31</u>		
Geo. Brackenridge Estate, Jos. D. Cle- ments survey, 2 $\frac{3}{4}$ miles west of Seguin.		
Surface materials - - - - -	3	3
Red clay - - - - -	15	18
Soft limestone - - - - -	8	26
Lime and gravel - - - - -	4	30
Blue clay - - - - -	65	95
Gray limestone - - - - -	30	125
Yellow limestone (water) - -	3	128
Cavity - - - - - (water) - -	2	130
Hard white limestone - - - -	58	188
Cavity - - - - -	4	192
Volcanic rock - - - - -	4	196
Blue shale - - - - -	24	220
Black flint - - - - -	6	226
Gray limestone - - - - -	100	326
Hard white limestone - - - -	57	383
Gray limestone - - - - -	27	410
Soft white limestone - - - -	41	451
Hard gray limestone - - - -	35	486
Blue clay - - - - -	5	491
Soft limestone - - - - -	47	538

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 31--Continued</u>		
Hard gray limestone - - - -	57	595
Soft gray limestone - - - -	30	625
Blue clay - - - - -	27	652
Sulphur limestone - - - - -	78	730
White clay - - - - -	5	735
Hard white limestone - - - -	25	760
White clay - - - - -	5	765
White limestone - - - - -	270	1035
Gray limestone - - - - -	77	1112
Blue clay - - - - -	7	1119
Gray limestone (water) - - -	59	1178
Yellow limestone (water) - -	113	1291
Sandstone - - - - -	54	1345
White limestone - - - - -	60	1405
Black sandstone - - - - -	8	1413
Gray limestone - - - - -	32	1445
Sandy limestone - - - - -	30	1475
Blue clay - - - - -	25	1500
TOTAL DEPTH - - - - -		2348

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 39</u>		
White Chirino survey, F. H. Westphal farm, 3 $\frac{1}{4}$ miles north of Seguin.		
Surface materials - - - - -	3	3
Sand and clay - - - - -	6	9
Chalk - - - - -	8	17
Gravelly clay - - - - -	1	18
Gravel - - - - -	2	20
TOTAL DEPTH - - - - -		20

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 51</u>		
Henry Calvert tract, C. Fulcher survey, 6 $\frac{1}{2}$ miles northeast of Seguin.		
Surface materials - - - - -	3	3
Sand rock - - - - -	2	5
Clay - - - - -	13	18
Sand rock - - - - -	1	19
Sand - - - - -	21	40
Sand rock - - - - -	3	43
Shale - - - - -	27	70
Sand rock - - - - -	2	72
Sandy shale - - - - -	68	140
Sand rock - - - - -	3	143
Shale - - - - -	52	195
Brown shale - - - - -	70	265
Shale and boulders - - - -	40	305
Brown shale - - - - -	115	420
Shale and boulders - - - -	50	470
Hard rock - - - - -	2	472
Shale - - - - -	28	500
Sand - - - - -	15	515
Shale and boulders - - - -	113	628
Sticky shale - - - - -	152	780

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Table of Drillers' Logs, Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 51--Continued</u>		
Limy shale - - - - -	40	820
Brown shale - - - - -	75	895
Shale and boulders - - - -	55	950
Gumbo shale- - - - -	50	1000
Limestone- - - - -	25	1025
Shale and boulders - - - -	75	1100
Sticky shale - - - - -	220	1320
Limy shale - - - - -	145	1465
Hard chalky shale- - - - -	20	1485
Gumbo and hard chalky shale	55	1540
Chalk- - - - -	18	1558
Marl - - - - -	20	1578
Shale and chalk- - - - -	22	1600
Chalk- - - - -	206	1806
Shale- - - - -	25	1831
Limestone- - - - -	57	1888
Clay - - - - -	48	1936
Limestone- - - - -	51	1987
Hard shell - - - - -	1	1988
Limestone- - - - -	12	2000
Caprock- - - - -	1	2001
Soft limestone - - - - -	15	2016
Hard rock- - - - -	19	2035
Limestone- - - - -	13	2048
Hard rock- - - - -	4	2052
Limestone- - - - -	16	2068
Hard rock- - - - -	2	2070
Limestone- - - - -	56	2126
Hard rock- - - - -	2	2128
Shale- - - - -	2	2130
Hard limestone - - - - -	10	2140
Soft limestone and sulphur	35	2175
Hard limestone - - - - -	5	2180
Soft sandy limestone - - -	110	2290
TOTAL DEPTH- - - - -		2290

<u>Driller's log of well 58</u>		
J. T. Fulshear farm, Rob't Smith survey, 14 miles northeast of Seguin.		
Surface materials - - - - -	40	40
Sand rock - - - - -	15	55
Water sand- - - - -	15	70
Hard rock - - - - -	2	72
Sand and boulders - - - - -	60	132
Hard sand rock- - - - -	18	150
Broken sand rock- - - - -	50	200
Broken rock and sandy lime-	120	320
Broken sand rock- - - - -	60	380
Shale- - - - -	92	472
Hard sand rock- - - - -	23	500
Sand - - - - -	15	515
Shale and boulders- - - - -	175	690
Sandy shale - - - - -	10	700
Shale- - - - -	138	838

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 53--Continued</u>		
Gumbo shale - - - - -	23	861
Sandrock - - - - -	2	863
Shale and boulders- - - -	28	891
Sand rock- - - - -	3	894
Shale and boulders- - - -	56	950
Shale - - - - -	270	1220
Gypsum- - - - -	37	1257
Shale and boulders- - - -	38	1295
Gypsum- - - - -	15	1310
Gumbo - - - - -	68	1378
Shale - - - - -	157	1535
TOTAL DEPTH - - - - -		2451

<u>Driller's log of well 63</u>		
D. Darling tract, B. Fugua survey, 18 miles east of Seguin.		
Surface materials - - - -	7	7
Red and yellow clay - - -	6	13
Yellow clay and sand- - -	9	22
Shale and sand- - - - -	10	32
Shale - - - - -	16	48
Sand and shale- - - - -	27	75
Boulders- - - - -	1	76
Sand and shale- - - - -	29	105
Gray sand - - - - -	34	139
Boulders - - - - -	2	141
Sand- - - - -	9	150
Sand and shale- - - - -	11	161
Boulders- - - - -	1	162
Sand and shale- - - - -	12	174
Boulders- - - - -	2	176
Gray sand - - - - -	40	216
Hard rock - - - - -	2	218
Sand and shale- - - - -	60	278
Hard rock - - - - -	1	279
Gray sand - - - - -	6	285
Shale and lignite - - - -	37	322
Coal- - - - -	2	324
Shale and lignite - - - -	11	335
Hard sand - - - - -	13	348
Gray shale- - - - -	22	370
Fine-grained gray sand- -	40	410
Coarse-grained gray sand-	27	437
Shale - - - - -	11	448
Sand and shale- - - - -	50	498
Shale and lignite - - - -	28	526
Shale - - - - -	10	536
Shale and lignite - - - -	9	545
Shale - - - - -	15	560
Hard rock - - - - -	1	561
Sand- - - - -	9	570
Rock- - - - -	1	571
Shale and boulders- - - -	167	738
(Continued on next page)		

Table of Drillers' Logs, Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 63--Continued</u>		
Sandy shale - - - - -	12	750
Shale - - - - -	54	804
Rock- - - - -	3	807
Sandy shale - - - - -	27	834
Rock- - - - -	1	835
Water sand- - - - -	37	872
Sand and shale- - - - -	7	879
Hard rock-- - - - - -	3	882
Shale and sand- - - - -	27	909
Shale and boulders- - - - -	36	995
Sticky shale - - - - -	258	1253
Shale and boulders- - - - -	302	1555
Limy shale- - - - -	662	2217
TOTAL DEPTH - - - - -		2921

Driller's log of well 77  
 C. H. Adams tract, J. Randolph survey,  
 14½ miles east of Seguin.

Surface materials - - - - -	4	4
Clay- - - - -	34	38
Clay and sand rock- - - - -	452	490
Shale and rock- - - - -	270	760
Shale - - - - -	160	920
Sticky shale- - - - -	460	1380
Sand rock - - - - -	3	1383
Sticky shale- - - - -	57	1440
Sand rock - - - - -	4	1444
Shale - - - - -	21	1465
Sand rock - - - - -	2	1467
Shale - - - - -	15	1482
Sand rock - - - - -	3	1485
Shale - - - - -	125	1610
Sticky shale- - - - -	235	1845
Broken rock - - - - -	20	1865
Shale - - - - -	35	1900
Lime and shells - - - - -	3	1902
Shale - - - - -	358	2260
Marl - - - - -	330	2590
Chalk - - - - -	40	2630
Hard chalk- - - - -	190	2820
Shale - - - - -	40	2860
Limestone - - - - -	83	2943
Clay- - - - -	26	2969
Limestone - - - - -	106	3075
Hard rock - - - - -	2	3077
Limestone - - - - -	37	3164
TOTAL DEPTH - - - - -		3164

Driller's log of well 177  
 C. M. Wells tract, Jose de la Baumc survey,  
 12½ miles southeast of Seguin.

Surface sand- - - - -	20	20
Sandy yellow clay - - - - -	4	24
Pink sand - - - - -	16	40

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 177--Continued</u>		
Gray clay - - - - -	5	45
Red sand- - - - -	65	110
Pink sand - - - - -	82	192
Gray-white sand - - - - -	12	204
Sand rock - - - - -	7	211
Brown sand- - - - -	156	367
Tough gumbo - - - - -	6	373
Blue-black gumbo- - - - -	23	396
Sand rock - - - - -	2	398
Bluish-colored sand - - - - -	13	411
Hard shell- - - - -	2	413
Blue clay - - - - -	35	448
Hard shell- - - - -	13	461
Blue sand - - - - -	19	480
Hard shell- - - - -	2	482
Blue sand - - - - -	13	495
Hard shell- - - - -	3	498
Gray sand - - - - -	14	512
Hard shell- - - - -	2	514
Soft sand rock- - - - -	4	518
Hard shell- - - - -	3	521
Gray sand rock- - - - -	27	548
Blue clay - - - - -	10	558
Hard shell- - - - -	3	561
Blue shale- - - - -	39	600
Hard shell- - - - -	4	604
Blue shale- - - - -	46	650
Sticky blue shale - - - - -	1	651
Hard shale- - - - -	24	675
Dark brown shale and shells	64	739
Shells and shale- - - - -	21	760
Hard rock - - - - -	22	782
Shells and shale- - - - -	16	798
Hard shells - - - - -	4	802
Blue shale- - - - -	28	830
Hard shells - - - - -	4	834
Brown shale - - - - -	46	880
Sticky brown clay - - - - -	20	900
Brown clay- - - - -	24	924
Brown shale and shells- - - - -	106	1030
Brown shale - - - - -	130	1160
Pyrites in hard rock- - - - -	5	1165
Brown shale with pyrites- - - - -	29	1194
Brown clay- - - - -	31	1225
Black shale - - - - -	50	1275
Brown shale with shells - - - - -	125	1400
Pyrites in hard rock- - - - -	15	1415
Soft blue shale - - - - -	13	1428
Hard rock - - - - -	7	1435
Sticky blue shale with shells - - - - -	35	1470
Brown shale - - - - -	60	1530
Brown shale and boulders- - - - -	40	1570

(Continued on next page)

Table of Drillers' Logs,

County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 177--Continued</u>		
Sticky brown clay - - - -	10	1580
Brown shale and boulders-	150	1730
Sticky brown clay - - - -	85	1815
Rock- - - - -	3	1818
Sticky clay - - - - -	42	1860
Sticky brown shale and boulders - - - - -	35	1895
Shale and boulders- - - -	315	2210
Hard shell- - - - -	4	2214
Shale and boulders- - - -	91	2305
Rock- - - - -	3	2308
Shale and boulders- - - -	17	2325
Dark gray shale and boulders - - - - -	25	2350
Hard shell- - - - -	5	2355
Rock- - - - -	3	2358
Sticky shale- - - - -	17	2375
Sand rock - - - - -	3	2378
Sticky shale- - - - -	12	2390
Gray shale and boulders -	314	2704
TOTAL DEPTH - - - - -		3054

<u>Driller's log of well 182</u>		
C. M. Wells farm, Patrick Lynch survey, 13 miles southeast of Seguin.		
Ferruginous sandstone and clay - - - - -		
	5	5
Sand- - - - -	4	9
Sandy clay- - - - -	1	10
Gray sand - - - - -	2	12
Yellow sand - - - - -	1	13
Yellow sandy clay - - - -	4	17
Gray sand - - - - -	4	21
Yellow sandy clay - - - -	3	24
Quicksand - - - - -	1	25
Clay- - - - -	3	28
TOTAL DEPTH - - - - -		28

<u>Driller's log of well 213</u>		
E. Nolte, et al, Jno. Sewell survey, 2 miles southeast of Seguin.		
Surface materials - - - -	20	20
Sand and gravel - - - - -	28	48
Sandy shale - - - - -	43	91
Sand- - - - -	38	129
Hard sand rock- - - - -	8	137
Rock and packed sand- - -	13	150
Sandy shale - - - - -	32	182
Rock- - - - -	3	185
Shale and boulders- - - -	498	683
Sticky shale- - - - -	17	700
Hard sand rock- - - - -	13	713
Sticky shale- - - - -	487	1200
Shale and boulders- - - -	100	1300

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 213--Continued</u>		
Sandy shale - - - - -	100	1400
Hard sticky shale - - - -	120	1520
Hard shale- - - - -	95	1615
Hard limy shale - - - - -	155	1770
Chalk, lime, and shale- -	37	1807
Hard chalk- - - - -	37	1844
Sticky chalk- - - - -	12	1856
TOTAL DEPTH - - - - -		1353

<u>Driller's log of well 220</u>		
P. K. Delaney tract, Jesus Cantu survey, 5 $\frac{1}{2}$ miles southeast of Seguin.		
Surface materials - - - -	11	11
Sandy clay- - - - -	13	24
Rock- - - - -	4	28
Sand- - - - -	2	30
Shale - - - - -	38	68
Sandy shale - - - - -	41	109
Boulders- - - - -	2	111
Hard shale- - - - -	24	135
Boulder - - - - -	2	137
Shale - - - - -	23	160
Hard shale- - - - -	27	187
Boulder - - - - -	4	191
Shale and hard sand - - -	8	199
Boulder - - - - -	1	200
Shale and hard sand - - -	73	273
Boulder - - - - -	1	274
Shale - - - - -	11	285
Sand and hard shale - - -	13	298
Shale - - - - -	12	310
Hard sand - - - - -	15	325
Shale and sand- - - - -	33	358
Shale and boulders- - - -	669	1027
Rock- - - - -	4	1031
Hard shale- - - - -	33	1064
Rock- - - - -	2	1066
Sticky shale- - - - -	14	1082
Shale - - - - -	46	1122
Rock- - - - -	3	1131
Shale - - - - -	138	1269
Hard limestone- - - - -	2	1271
Shale - - - - -	19	1290
Limy shale- - - - -	73	1363
Shale - - - - -	47	1410
Sticky shale- - - - -	37	1447
Shale - - - - -	40	1487
Tough sticky shale- - - -	96	1583
Shale - - - - -	57	1640
Hard limy shale - - - - -	380	2020
Chalk - - - - -	145	2165
Shale - - - - -	44	2209
Limestone - - - - -	70	2279
Clay- - - - -	21	2300
Limestone - - - - -	50	2350



Table of Drillers' Logs, DeWitt County--Continued

		Thickness	Depth			Thickness	Depth
		(feet)	(feet)			(feet)	(feet)
Driller's log of well 233				Driller's log of well 233--continued			
Anton Zoboroski farm, Jos. D. Clements				Boulders - - - - -			
survey, 8 miles southeast of Seguin.				Shale- - - - -			
Surface material - - - - -	11	11	Boulders - - - - -	2	617	Shale- - - - -	55
Sand- - - - -	19	30	Shale- - - - -	30	704	Boulders - - - - -	2
Gravel and sand- - - - -	2	32	Sticky shale - - - - -	4	708	Shale- - - - -	92
Shale- - - - -	14	46	Shale- - - - -	2	800	Rock - - - - -	2
Shale and lignite- - - - -	11	57	Shale- - - - -	62	864	Shale- - - - -	2
Shale- - - - -	21	78	Boulders - - - - -	2	866	Shale- - - - -	11
Shale and sand - - - - -	16	94	Shale- - - - -	2	879	Rock - - - - -	2
Sand rock- - - - -	1	95	Shale and sticky shale - -	38	917	Shale and sticky shale - -	38
Shale- - - - -	30	125	Rock - - - - -	2	919	Rock - - - - -	2
Sand rock- - - - -	2	127	Shale and boulders - - - -	19	938	Shale and boulders - - - -	19
Shale and sand - - - - -	19	146	Rock - - - - -	2	940	Rock - - - - -	2
Hard shale and lignite - -	4	150	Sand - - - - -	8	948	Sand - - - - -	8
Shale and sand - - - - -	12	162	Sand and shale - - - - -	9	957	Sand and shale - - - - -	9
Hard shale - - - - -	8	170	Shale- - - - -	4	961	Shale- - - - -	4
Shale and sand - - - - -	20	190	Rock - - - - -	1	962	Rock - - - - -	1
Boulders - - - - -	2	192	Sand and shale - - - - -	7	969	Sand and shale - - - - -	7
Shale and boulders - - - -	6	198	Shale- - - - -	3	972	Shale- - - - -	3
Shale and sand - - - - -	5	203	Hard shale - - - - -	16	988	Hard shale - - - - -	16
Boulders - - - - -	3	206	Sand stone - - - - -	4	992	Sand stone - - - - -	4
Shale and sand - - - - -	17	223	Sticky shale - - - - -	8	1000	Sticky shale - - - - -	8
Sand- - - - -	4	227	Sandy shale- - - - -	5	1005	Sandy shale- - - - -	5
Shale and sand - - - - -	3	230	Sticky shale - - - - -	3	1008	Sticky shale - - - - -	3
Lignite - - - - -	3	233	Boulders and sand rock - -	8	1016	Boulders and sand rock - -	8
Shale- - - - -	17	250	Shale and boulders - - - -	6	1022	Shale and boulders - - - -	6
Hard shale and sand- - - -	15	265	Sticky shale - - - - -	5	1027	Sticky shale - - - - -	5
Sand - - - - -	5	270	Sand rock -- - - - - -	3	1030	Sand rock -- - - - - -	3
Shale and sand - - - - -	5	275	Gumbo- - - - -	18	1048	Gumbo- - - - -	18
Shale- - - - -	3	278	Sticky shale - - - - -	11	1059	Sticky shale - - - - -	11
Sand - - - - -	17	295	Shale and boulders - - - -	21	1080	Shale and boulders - - - -	21
Shale and sand - - - - -	17	312	Sand rock- - - - -	2	1082	Sand rock- - - - -	2
Boulders - - - - -	2	314	Shale- - - - -	4	1086	Shale- - - - -	4
Sand - - - - -	4	318	Sand rock- - - - -	2	1098	Sand rock- - - - -	2
Boulders - - - - -	3	321	Shale and boulders - - - -	12	1100	Shale and boulders - - - -	12
Sand - - - - -	28	349	Sand rock- - - - -	2	1102	Sand rock- - - - -	2
Rock - - - - -	2	351	Sticky shale - - - - -	66	1168	Sticky shale - - - - -	66
Shale- - - - -	13	364	Shale and sandy shale- - -	8	1170	Shale and sandy shale- - -	8
Sand - - - - -	33	397	Sticky shale - - - - -	6	1182	Sticky shale - - - - -	6
Rock - - - - -	4	401	Shale- - - - -	15	1197	Shale- - - - -	15
Sand and shale - - - - -	14	415	Gumbo- - - - -	3	1200	Gumbo- - - - -	3
Rock - - - - -	2	417	Shale- - - - -	15	1215	Shale- - - - -	15
Shale- - - - -	12	429	Gumbo- - - - -	13	1228	Gumbo- - - - -	13
Rock - - - - -	13	442	Sticky shale - - - - -	27	1255	Sticky shale - - - - -	27
Sand - - - - -	3	445	Shale and boulders - - - -	23	1278	Shale and boulders - - - -	23
Sand and shale - - - - -	5	450	Shale- - - - -	32	1310	Shale- - - - -	32
Rock - - - - -	6	456	Gumbo- - - - -	5	1315	Gumbo- - - - -	5
Shale and sand - - - - -	14	470	Shale and sticky shale - -	22	1337	Shale and sticky shale - -	22
Rock - - - - -	2	472	Shale- - - - -	5	1342	Shale- - - - -	5
Sandy shale- - - - -	36	508	Sticky shale - - - - -	6	1348	Sticky shale - - - - -	6
Rock - - - - -	3	511	Shale- - - - -	752	2100	Shale- - - - -	752
Sand and shale - - - - -	61	572	White chalk- - - - -	92	2192	White chalk- - - - -	92
Shale- - - - -	38	608			2192		
Lignite and shale- - - - -	7	615					

Table of Drillers' Logs, Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 372</u>		
Ed. Echols farm, J. Nowland survey, 6 miles south of Seguin.		
Surface materials - - - - -	5	5
Red clay- - - - -	8	13
White clay- - - - -	8	21
White sandstone - - - - -	4	25
White sand- - - - -	6	31
TOTAL DEPTH - - - - -		31

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 415</u>		
S. Black farm, V. Bennett survey, 10 miles south of Seguin.		
Surface materials - - - - -	4	4
Red sand- - - - -	1	5
Red clay and sand - - - - -	7	12
Clay and sand - - - - -	16	28
Sandy shale - - - - -	12	40
Gray sand - - - - -	58	98
Dark-colored sandy shale-	30	128
Dark shale- - - - -	52	180
Boulders- - - - -	2	182
Sand - - - - -	4	186
Shale - - - - -	29	215
Boulders- - - - -	2	217
Sand- - - - -	10	227
Shale - - - - -	44	271
Shale and boulders- - - - -	70	341
Sandy shale and boulders-	59	400
Boulders- - - - -	3	403
Shale, sand, and lignite-	69	472
Boulder - - - - -	2	474
Dark-colored shale- - - - -	16	490
Sandy shale and boulders-	210	700
Shale and boulders- - - - -	218	918
Hard sticky shale - - - - -	8	926
Shale - - - - -	31	957
Hard sticky shale - - - - -	83	1040
Shale and boulders- - - - -	205	1245
Sticky shale and boulders	108	1353
Limestone - - - - -	8	1361
Hard shale- - - - -	29	1390
Sticky shale- - - - -	130	1520
Shale - - - - -	34	1554
Shale and boulders- - - - -	29	1583
Sticky shale- - - - -	17	1600
Shale - - - - -	94	1694
Shale and boulders- - - - -	22	1716
Limy shale- - - - -	32	1748
Shale - - - - -	52	1800
Sticky shale- - - - -	308	2108
Hard sticky shale - - - - -	67	2175
Hard shale- - - - -	125	2300
Limy shale- - - - -	63	2363
Sticky shale- - - - -	29	2392

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 415--Continued</u>		
Hard limy shale - - - - -	40	2432
Chalk - - - - -	133	2565
Shale - - - - -	42	2607
Limestone - - - - -	76	2683
Clay- - - - -	31	2714
Limestone - - - - -	92	2806
TOTAL DEPTH - - - - -		2806

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 435</u>		
W. E. Tewes tract, Vicente Duran survey, 10½ miles southwest of Seguin.		
Surface materials - - - - -	45	45
Limestone - - - - -	3	48
Shale - - - - -	10	58
Limestone shell - - - - -	--	58
Shale - - - - -	87	145
Hard lime shell - - - - -	2	147
Shale - - - - -	8	155
Hard limestone- - - - -	--	155
Pyrites in rock - - - - -	1	156
Shale - - - - -	11	167
Rock- - - - -	--	167
Shale and boulders- - - - -	105	272
Black shale - - - - -	100	372
Hard limestone- - - - -	15	387
Limestone - - - - -	3	390
Shale - - - - -	8	398
Limestone - - - - -	25	423
Shale and lime- - - - -	18	441
Shale - - - - -	56	497
Sand rock - - - - -	4	501
Limestone - - - - -	11	512
Shale - - - - -	22	534
Limestone - - - - -	22	556
Shale - - - - -	21	577
Lime and shale- - - - -	21	598
Shale - - - - -	42	640
Limestone - - - - -	28	668
Hard sand rock- - - - -	3	671
Limestone - - - - -	11	682
Shale - - - - -	31	713
Limestone and pyrites - -	32	745
Shale - - - - -	6	751
Limestone - - - - -	50	801
Gumbo - - - - -	8	809
Limestone - - - - -	8	817
Gumbo - - - - -	8	825
Limestone - - - - -	5	830
Gumbo - - - - -	64	894
Limestone - - - - -	11	905
Shale - - - - -	31	936
Sand- - - - -	6	942
Hard lime stone - - - - -	5	947

(Continued on next page)

Table of Drillers' Logs, Claiborne County--Continued

Driller's log of well 435--Continued		Driller's log of well 452--Continued			
	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Shale - - - - -	35	982	Brown sandstone (water)- -	55	955
Limestone - - - - -	63	1045	Brown sand - - - - -	35	990
Shale - - - - -	35	1080	Black flint- - - - -	70	1060
Limestone - - - - -	8	1088	Hard brown rock- - - - -	120	1180
Sticky shale- - - - -	1	1089	Hard brown rock with		
Limestone - - - - -	2	1091	shells and flint- - - - -	60	1240
Shale - - - - -	2	1093	Cream-colored limestone- -	60	1300
Hard limestone- - - - -	20	1113	Gray limestone - - - - -	48	1348
Gumbo - - - - -	2	1115	Black flint- - - - -	22	1370
Hard limestone- - - - -	20	1135	White lime - - - - -	250	1620
Gumbo - - - - -	2	1137	Hard blue limestone- - - -	200	1320
Limestone - - - - -	43	1180	Light blue sandy limestone	13	1833
Limestone and shale - - - -	14	1194	Light blue limestone - - -	12	1845
Shale and shells- - - - -	21	1215	Crevassed blue limestone		
Shale - - - - -	35	1250	with water- - - - -	2	1847
Shale and shells- - - - -	16	1266	Hard white limestone - - -	18	1865
Limy shale- - - - -	44	1310	Soft blue sand - - - - -	5	1870
Hard shale- - - - -	10	1320	Soft blue lime with shells		
Chalky shale- - - - -	118	1438	and flint - - - - -	25	1895
Limestone - - - - -	3	1441	Hard gray limestone- - - -	55	1950
Hard limy shale - - - - -	24	1465	Hard light blue limestone-	50	2000
Hard limestone- - - - -	11	1476	Hard dark blue limestone -	20	2020
Black shale - - - - -	91	1567	Hard light blue limestone	15	2035
Chalky shale and boulders -	43	1610	Hard dark brown limestone-	45	2080
Hard limestone- - - - -	2	1612	Hard dark blue limestone -	80	2160
Chalk - - - - -	18	1630	Hard light blue limestone-	5	2165
Chalky limestone- - - - -	25	1655	Hard dark blue limestone -	10	2175
Gray limestone- - - - -	10	1665	Brown sand - - - - -	10	2185
Limestone - - - - -	10	1675	Hard blue lime - - - - -	60	2245
Limestone and pyrites - - - -	6	1681	Mud- - - - -	6	2251
Limestone - - - - -	178	1859	Hard gray shell- - - - -	4	2255
Blue limestone- - - - -	91	1950	Mud- - - - -	2	2257
Blue shale- - - - -	8	1958	Hard gray shale- - - - -	8	2265
Gray limestone- - - - -	68	2026	Mud- - - - -	2	2267
Brown limestone - - - - -	49	2075	Hard gray shale- - - - -	11	2278
TOTAL DEPTH - - - - -		2075	Mud- - - - -	2	2280
			Hard black shale - - - - -	1	2281
			Mud- - - - -	10	2291
			Hard gray lime - - - - -	3	2294
			Brown sand - - - - -	11	2305
			Hard brown lime- - - - -	25	2330
			Light blue lime- - - - -	10	2340
			Mud- - - - -	2	2342
			Soft blue sand - - - - -	5	2347
			Hard gray shale- - - - -	3	2350
			Hard blue rock - - - - -	20	2370
			Mud- - - - -	1	2371
			Shale- - - - -	6	2377
			Hard blue limestone- - - -	8	2385
			Hard gray limestone- - - -	5	2390
			Hard white limestone - - -	10	2400
			Shale- - - - -	3	2403
			Soft white limestone - - -	5	2408
			(Continued on next page)		

Driller's log of well 452

J. Pausenang farm, Claibourn Rector survey, 10 $\frac{1}{2}$  miles west of Seguin.

Surface materials - - - - -	8	8
Yellow clay - - - - -	44	52
Soft white lime - - - - -	448	500
Lignite - - - - -	20	520
Hard white lime - - - - -	55	575
Mud - - - - -	15	590
Shale - - - - -	3	593
Black mud - - - - -	47	640
Hard white lime (first water)	15	655
Crevassed limestone - - - -	45	700
Brown sandstone - - - - -	50	750
Gray limestone- - - - -	110	860
White limestone - - - - -	10	870
Brown limestone - - - - -	30	900

Table of Drillers' logs, Comal County--Continued

Thickness Depth		Thickness Depth	
	(feet)	(feet)	
<u>Driller's log of well 452--Continued</u>			
Hard gray limestone	2	2410	
Soft brown limestone	7	2417	
Hard gray limestone	18	2435	
Soft brown limestone	5	2440	
Hard light gray limestone	2	2442	
Crevice	3	2445	
Soft brown limestone	16	2461	
Hard white limestone	9	2470	
Brown sand	3	2473	
Hard gray limestone	17	2490	
Hard white limestone	6	2496	
Soft brown limestone	6	2502	
Hard gray limestone	1	2503	
Soft brown limestone	5	2508	
Hard white limestone	2	2510	
Soft brown limestone	3	2513	
Hard brown limestone	2	2515	
Soft brown limestone	3	2523	
Hard gray limestone	1	2524	
Soft brown limestone	6	2530	
Hard white limestone	2	2532	
Soft white limestone	7	2539	
Hard white limestone	4	2543	
Soft white limestone	7	2550	
Soft light brown limestone	10	2560	
Hard gray limestone	1	2561	
Soft light blue limestone	9	2570	
Hard white limestone	3	2573	
Soft light blue limestone	7	2580	
Hard light blue limestone	4	2584	
Soft brown limestone	6	2590	
Hard gray limestone	2	2592	
Soft light blue limestone	8	2600	
Brown sand	1	2601	
Brown limestone	6	2607	
Hard white limestone	2	2609	
Soft light brown limestone	6	2615	
Hard white limestone	13	2628	
Soft brown limestone	15	2643	
Brown sand	1	2644	
Hard gray limestone	9	2653	
Soft brown limestone	6	2659	
Hard gray limestone	1	2660	
Soft brown limestone	3	2668	
Gritty brown limestone	4	2672	
Gritty white limestone	22	2694	
Brown sand	9	2703	
Hard gray limestone	20	2723	
Hard brown limestone	7	2730	
Soft brown limestone	3	2733	
Hard white limestone	4	2737	
Soft white limestone	4	2741	
Soft brown limestone	2	2743	
Hard white limestone	9	2752	
<u>Driller's log of well 452--Continued</u>			
	1	2753	
Soft brown limestone	2	2755	
Hard white limestone	5	2760	
Soft gray limestone	7	2767	
Hard white limestone	4	2771	
Soft light blue limestone	2	2773	
Hard white limestone	5	2778	
Brown mud	2	2780	
Soft yellow limestone	2	2782	
Green mud	2	2784	
Soft yellow limestone	6	2790	
Yellow clay	13	2903	
Hard gray limestone	2	2905	
Blue mud	4	2909	
Hard gray limestone	2	2911	
Blue mud	2	2913	
Soft yellow limestone	9	2922	
Soft brown sandstone	3	2925	
Soft brown limestone	6	2931	
Brown putty	2	2933	
Gritty brown limestone	4	2937	
Brown sand	3	2940	
Soft brown limestone	12	2952	
Hard brown limestone	5	2957	
Soft brown limestone	5	2962	
Hard blue limestone	5	2967	
Soft brown limestone	10	2977	
Hard dark blue limestone	15	2992	
Hard brown limestone	5	2997	
Hard gray limestone	6	2903	
Hard brown limestone	6	2909	
Hard gray limestone	21	2930	
Brown sand	4	2934	
Hard gray limestone	11	2945	
Hard blue limestone	15	2990	
Hard brown limestone	10	3000	
Hard green limestone	8	3008	
Red rock	2	3010	
Coarse white sand	20	3030	
Fine gray sand	31	3061	
Hard gray limestone	4	3065	
White marble	10	3075	
Coarse white sand	10	3085	
Fine gray sand	13	3098	
Fine brown sand	4	3102	
Fine blue sand	67	3169	
TOTAL DEPTH		3169	
<u>Driller's log of well 460</u>			
Mrs. Mianie Kendall, et al, E. de los Santos Coy survey, 13 miles west of Seguin.			
Black surface materials	4	4	
Yellow clay	38	42	
(Continued on next page)			

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Table of Drillers' Logs, ... County--Continued

Thickness Depth		Thickness Depth	
(feet) (feet)		(feet) (feet)	
<u>Driller's log of well 460--Continued</u>		<u>Driller's log of well 460--Continued</u>	
Blue shale with shells and chalk - - - - -	130 172	Green limy clay - - - - -	2 1108
Dark gray and black shale-	23 195	Limestone - - - - -	432 1540
Limestone- - - - -	60 255	Brown and blue limestone-	55 1595
Clay - - - - -	57 312	Brown limestone and gumbo	115 1710
Hard limestone with pyrites	28 340	Sandy brown limestone - -	20 1730
Light brown limestone- - -	20 360	Tan and gray limestone with shells and shale - - - -	122 1852
Dark brown limestone and chert - - - - -	30 390	Gumbo and shale - - - - -	60 1912
Light brown sandy lime - stone - - - - -	10 400	Light gray sandy limestone	23 1935
Light brown limestone with streaks of pyrites- - - -	158 558	TOTAL DEPTH - - - - -	1935
Dolomitic limestone- - - -	322 880		
Bluish-gray limestone and dolomite- - - - -	226 1106		

Logs of test wells drilled by W. F. A. Lubor in Guadalupe County, Texas  
 Samples examined and classified by Emil J. Michal,  
 Project Superintendent

	Thickness (feet)	Depth (feet)
<u>Well 13</u>		
Hillside, side of county road, west side, Antonio Maria Esnaurrizar survey, near Guadalupe River, 7 miles northwest of Seguin.		
Red and yellow sand- - - -	1	1
Red sand and yellow clay -	2	3
Yellow clay- - - - - - -	3	6
Reddish yellow sand- - - -	1	7
Red clay- - - - - - - - -	4	11
No water sample collected. Sept. 10, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 16</u>		
Rolling, side of county road, William J. Ragsdale survey, 8 miles north of Seguin.		
Surface materials- - - - -	2	2
Top soil and chalk - - - -	2	4
White chalk and gray clay-	10	14
Red sand and gray clay - -	3	17
Gray sand- - - - - - - -	8	25
No water sample collected. Oct. 1, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 18</u>		
Rolling, top of hill, side of county road near intersection of highway, Wm. J. Ragsdale survey, 8 miles north of Seguin.		
Surface materials- - - - -	1	1
Gravel- - - - - - - - - -	3	4
Yellow clay and gravel - -	4	8
Chalk and soapstone- - - -	1	9
Bluish-yellow clay - - - -	2	11
Grayish-blue clay- - - - -	16	27
Gray clay and red sand - -	1	28
No water sample collected. Oct. 1, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 26</u>		
Creek bottoms, side of county road, Antonio Maria Esnaurrizar survey, 4 1/2 miles northwest of Seguin.		
Surface materials- - - - -	1	1
Red clay and chalk - - - -	2	3
Yellow clay- - - - - - - -	2	5
Yellow clay and sand - - -	3	8
Yellow clay- - - - - - - -	4	12
Yellow clay and gravel - -	1	13
Yellow clay- - - - - - - -	2	15
Bluish-gray clay - - - - -	4	19
Gray clay- - - - - - - - -	2	21
No water sample collected. Sept. 10, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 32</u>		
River bottoms, side of county road, near junction, Jos. D. Clements survey, 2 1/2 miles west of Seguin.		

	Thickness (feet)	Depth (feet)
<u>Well 32--Continued</u>		
Surface materials- - - - -	1	1
Reddish-yellow clay- - - -	23	24
Red clay and gravel- - - -	1	25
Gravel - - - - - - - - - -	1	26
Water level, 21.2 feet below top of ground, 1/2 hour after hole completed. Water sample collected. Oct. 5, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 41</u>		
Rolling, side of county road, near highway intersection, Marjita Chirino survey, 3 3/4 miles north of Seguin.		
Black surface materials -	6	6
White chalk- - - - - - - -	11	17
Chalk and sand - - - - - -	2	19
Chalky rock- - - - - - - -	4	23
Water level, 21 feet below top of ground, 3 hours after hole completed. Water sample collected. Sept. 23, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 43</u>		
Rolling, side of county road, near highway intersection, Marjita Chirino survey, 4 3/4 miles north of Seguin.		
Black surface materials -	4	4
Yellow clay- - - - - - - -	1	5
White chalk- - - - - - - -	4	9
White chalk and gray sand-	12	21
Yellow and gray sand - - -	3	24
Yellow rock- - - - - - - -	1	25
No water sample collected. Sept. 23, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 48</u>		
Rolling, side of county road, near junction, J. Ussery survey, 5 miles northeast of Seguin.		
Surface materials- - - - -	3	3
Gravel - - - - - - - - - -	3	6
Gray clay and chalk- - - -	4	10
Red clay - - - - - - - - -	4	14
Red clay and sand- - - - -	2	16
No water sample collected. Sept. 22, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 49</u>		
Near intersection of county road and railway, Griffith Stewart survey, 4 1/2 miles northeast of Seguin.		
Surface materials- - - - -	5	5
Yellow clay- - - - - - - -	2	7
Gray clay and soapstone- -	2	9
Soapstone- - - - - - - - -	2	11
Red sand and gray clay - -	1	12
Gray sand- - - - - - - - -	3	15

	Thickness (feet)	Depth (feet)
<u>Well 49--Continued</u>		
Gray sand and iron gravel-	1	17
Gray sand- - - - -	1	18
Red sand - - - - -	1	19
Grayish-black sand - - - -	1	20
Light yellow sand- - - - -	2	22
Bluish-gray clay - - - - -	1	23
Gray clay and sand - - - -	1	24
No water sample collected. Sept. 16, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 171</u>		
Hillside, C. M. Wells tract, Jose de la Baume survey, 12 miles southeast of Seguin.		
Sand and flat concretions-	6	6
Yellow sand and flat concretions- - - - -	1	7
Banded yellow, gray, orange and red sand and clay- -	1	8
Banded sand and clay - - -	5	13
No water sample collected. April 24, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 172</u>		
Hillside, A. J. Mauermann tract, Jose de la Baume survey, 11 miles southeast of Seguin.		
Sandy materials- - - - -	6	6
Red and yellow clay and sand - - - - -	1	7
Red and yellow sand and clay with soapstone- - -	3	10
Banded red, yellow, and gray sand- - - - -	5	15
Banded red, yellow, pink, and purple sand- - - - -	5	20
No water sample collected. April 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 173</u>		
Valley, C. M. Wells tract, H. & T. C. R. R. Co. survey 2, 10 <sup>1</sup> / <sub>2</sub> miles southeast of Seguin.		
Sandy materials- - - - -	6	6
Hard red sand- - - - -	4	10
Yellow, red, and gray sand and clay-- - - - -	1	11
Pink and gray sand - - - -	1	12
Yellow, pink and gray sand with clay in vertical layers (cracks)- - - - -	2	14
No water sample collected. April 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 174</u>		
Hillside, A. J. Mauermann tract, Jose de la Baume survey, 11 <sup>1</sup> / <sub>2</sub> miles southeast of Seguin.		
Loached sandy materials- -	14	14
Yellow sand and clay - - -	1	15
Gray and yellow clay and sand - - - - -	1	16
Red sand and clay- - - - -	1	17
Yellow sand and clay - - -	3	20
Red sand and clay- - - - -	2	22
Banded red, yellow, pink, and gray sand- - - - -	1	23
Red sand and clay- - - - -	1	24
No water sample collected. April 8, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 175</u>		
Hillside, C. M. Wells tract, Jose de la Baume survey, 12 <sup>1</sup> / <sub>2</sub> miles southeast of Seguin.		
Sandy materials - - - - -	2	2
Yellow and red clay mixed with sand- - - - -	2	4
Coarse pink and yellow sand - - - - -	3	7
Yellow, gray and pink sand - - - - -	1	8
Yellow and gray sand mixed with layers of hard sandstone- - - - -	1	9
Banded sand with mica- - -	1	10
Yellow, brown and pink sand and mica between layers of sandstone- - -	1	11
Brown and gray sand and sandstone- - - - -	1	12
Banded yellow, pink, and brown sand - - - - -	2	14
Sandstone- - - - -		14
No water sample collected. April 19, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 176</u>		
Hillside, C. M. Wells tract, Jose de la Baume survey, 12 miles southeast of Seguin.		
Sandy materials and ferruginous concretions-	4	4
Yellow clay and sand - - -	1	5
Banded red and yellow clay-	2	7
Mixed yellow, red, and gray clay - - - - -	1	8
Sandstone- - - - -		8
Struck rock at 8 feet.		
Water level, 7.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected. April 11, 1936.		

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

	Thickness (feet)	Depth (feet)
<u>Well 178</u>		
Hillside, C. M. Wells tract, Jose de la Baume survey, 13 miles southeast of Seguin.		
Sandy materials - - - - -	6	6
Banded red, yellow, gray and orange clay and sand-	3	9
Banded red, gray, yellow, and pink clay, soapstone and sand - - - - -	2	11
Banded gray and yellow sand- - - - -	3	14
No water sample collected. April 3, 1936.		

<u>Well 180</u>		
Creek terraces, C. M. Wells tract, Jose de la Baume survey, 13 miles southeast of Seguin.		
Sandy materials - - - - -	5	5
Struck water at 5.2 feet.		
Water level, 3.6 feet below top of ground, 1/2 hour after hole completed.		
Water sample collected. April 6, 1936.		

<u>Well 181</u>		
Flat near creek, C. M. Wells tract, Jose de la Baume survey, 13 1/2 miles southeast of Seguin.		
Sandy materials - - - - -	4	4
Yellow and gray clay streaked - - - - -	3	7
Yellow and gray sand and clay - - - - -	1	8
Yellow and gray clay - - -	1	9
Yellow and gray sand - - -	1	10
Gray sand and mica with flat concretions- - - -	1	11
Yellow and gray sand - - -	1	12
Gray sand - - - - -	2	14
Yellow sand and mica - - -	1	15
Gray sand- - - - -	2	17
Yellow and gray sand - - -	1	18
Cross-bedded gray, yellow, and pink sand- - - - -	4	22
Banded yellow and gray sand with mica - - - - -	1	23
Gray sand- - - - -	1	24
Cross-bedded pink, yellow and gray sand- - - - -	1	25
Gray sand and mica - - - -	5	30
Gray, yellow and orange sand with mica - - - - -	1	31
Gray, orange, and purple sand with mica - - - - -	1	32

	Thickness (feet)	Depth (feet)
<u>Well 181--Continued</u>		
Brown and yellow sand and purple sandstone concretions- - - - -	1	33
Light brown sand and brown sandstone with mica- - -	1	34
Black carbonaceous clay- -	7	41
Gray carbonaceous clay and sand - - - - -	1	42
Water level, 33.5 feet below top of ground, 18 hours after hole completed.		
Water sample collected. April 9, 1936.		

<u>Well 183</u>		
C. M. Wells tract, Thos. J. Weeks survey, 12 1/2 miles southeast of Seguin.		
Sandy materials - - - - -	9	9
Banded yellow, red, pink, and gray clay and sand -	2	11
Gray clay and sand - - - -	1	12
Banded yellow, gray, and pink clay and sand - - -	8	20
Yellow sand- - - - -	2	22
Struck water at 22 feet.		
Water level, 19.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected. April 10, 1936.		

<u>Well 184</u>		
Hillside, C. M. Wells tract, Thos. J. Weeks survey, 12 miles southeast of Seguin.		
Sandy materials - - - - -	8	8
Yellow sand- - - - -	1	9
Coarse-grained, orange and pink sand- - - - -	1	10
Mixed gray, yellow, pink, and orange sand- - - - -	1	11
Fine-grained, yellow and gray sand- - - - -	1	12
No water sample collected. April 9, 1936.		

<u>Well 186</u>		
Hillside, C. M. Wells tract, Thos. J. Weeks survey, 11 1/2 miles southeast of Seguin.		
Sand, round and flat concretions- - - - -	10	10
Coarse brown sand- - - - -	9	19
No water sample collected. April 22, 1936.		



Logs of W. L. A. test wells in Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 187</u>		
Hillside, C. M. Wells tract, H. & T. C. R. R. Co. survey, 11 miles southeast of Seguin.		
Sand and flat concretions-	7	7
Hard red sand- - - - -	1	8
Yellow sand and clay - - -	1	9
Yellow, gray, and pink sand - - - - -	1	10
Gray sand- - - - -	1	11
Yellow and pink sand - - -	1	12
Coarse red sand- - - - -	3	15
Yellow sand- - - - -	1	16
Gray and yellow clay and sand - - - - -	1	17
No water sample collected. April 19, 1936.		

<u>Well 188</u>		
Hillside, C. M. Wells tract, H. & T. C. R. R. Co. survey 1, 11 miles southeast of Seguin.		
Sandy materials- - - - -	11	11
Banded pink, yellow, gray and orange clay and red concretions- - - - -	1	12
Struck water at 12.1 feet.		
Water level, 11.3 feet below top of ground, 1 hour after hole completed.		
Water sample collected. April 22, 1936.		

<u>Well 189</u>		
Hillside, C. M. Wells tract, near north line, H. & T. C. R. R. Co. survey 5, 10 miles southeast of Seguin.		
Sandy materials - - - - -	5	5
Purple sand and iron stone concretions- - - - -	1	6
Brown sand and iron stone concretions- - - - -	1	7
Brown sand and clay- - - -	4	11
Yellow and purple sand and clay with concretions- -	2	13
Light red sand and clay with soft concretions- -	6	19
Yellow sand and clay- - -	1	20
No water sample collected. April 14, 1936.		

<u>Well 190</u>		
Hillside, C. M. Wells tract, H. & T. C. R. R. Co. survey 3, 9 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy materials- - - - -	9	9
Hard red sand- - - - -	3	12
No water sample collected. April 14, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 195</u>		
Hillside, Eugene Atzger tract, Jos. D. Clements tract, 7 $\frac{1}{2}$ miles southeast of Seguin.		
Sand and ferruginous gravel-	1	1
Red and yellow clay- - - -	1	2
Red sand and clay- - - - -	2	4
Red sand and gray clay - -	1	5
Yellow sand- - - - -	3	8
Yellow sand and soapstone-	1	9
Gray sand, sandy concretions, and soapstone flakes - - - - -	1	10
No water sample collected. Mar. 31, 1936.		

<u>Well 196</u>		
Guadalupe River terraces, Antonio Zoboroski tract, Jos. D. Clements survey, 7 miles southeast of Seguin.		
Black surface materials- -	2	2
Gravel and black clay- - -	1	3
Yellow and gray clay - - -	1	4
Mixed yellow clay and flint gravel - - - - -	1	5
Mixed yellow clay and limestone gravel - - - -	2	7
Gravel and gray clay - - -	3	10
Water level, 8.6 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected. Mar. 27, 1936.		

<u>Well 204</u>		
Rolling, side of county road, near junction, A. Neil survey, 4 miles northeast of Seguin.		
Sand - - - - -	1	1
Black surface materials- -	1	2
Gray clay- - - - -	5	7
Gray clay and chalk- - - -	1	8
Gray clay and gray fuller's earth- - - - -	3	11
Yellow clay- - - - -	3	14
Gray sand and clay - - - -	3	17
Red sand - - - - -	1	18
Yellow clay and sand - - -	2	20
Gray sand and clay- - - -	3	23
Yellow clay- - - - -	1	24
Gray clay- - - - -	3	27
Red sand - - - - -	1	28
Red and yellow sand- - - -	1	29
Gray sand- - - - -	1	30
Dark red sand- - - - -	1	31
Light yellow sand and chalk- - - - -	2	33
No water sample collected. Sept. 16, 1936.		

Logs of W. P. test wells in Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 209</u>		
Creek bottoms, Mrs. A. D. Colville lot, blk. 454 in city of Seguin.		
Flint gravel and gray surface materials- - - - -	4	4
Brown sandy flint gravel -	1	5
Flint gravel and gray sand-	1	6
Banded brown and gray sand with flint gravel- - - -	1	7
Coarse gray sand and gravel-	1	8
Flint gravel and coarse gray sand- - - - -	1	9
Water level, 8.4 feet below top of ground, 1½ hours after hole completed.		
Water sample collected. June 15, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 210</u>		
Steep slope, Seguin city gravel pit, lot A, blk. 60, city of Seguin.		
Yellow and gray clay with gravel - - - - -	5	5
Gray and yellow clay - - -	6	9
Yellow sand and gray soapstone- - - - -	1	10
Blue and yellow clay - - -	3	13
Banded gray soapstone and yellow sand- - - - -	1	14
Black soapstone- - - - -	1	15
No water sample collected. June 15, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 217</u>		
Guadalupe River terraces, Antonio Zoboroski tract, Jesus Cantu survey, 5 miles southeast of Seguin.		
Sandy materials - - - - -	1	1
Black gumbo clay - - - - -	2	3
Mixed yellow and gray clay-	5	8
Gray and yellow clay and white limestone- - - - -	1	9
Gray and yellow clay and sand - - - - -	2	11
Rock - - - - -		11
Water level, 11 feet below top of ground, ¼ hour after hole completed.		
Water sample collected. Mar. 27, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 218</u>		
Guadalupe River terraces, Albin Benzinger tract, Jesus Cantu survey, 4¾ miles southeast of Seguin.		
Black surface materials- -	4	4
White lime, hollow concretions and brown clay - - - - -	4	8
Gray limestone gravel- - -	1	9
Flint gravel - - - - -		9

	Thickness (feet)	Depth (feet)
<u>Well 218--Continued</u>		
No water sample collected. Mar. 27, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 234</u>		
Hillside near creek bottoms, Ernest Soefje tract, Jos. D. Clements survey, 6 miles southeast of Seguin.		
Sandy materials - - - - -	1	1
Cracked yellow and gray clay, vertical - - - - -	5	6
Brown sand and clay with brown sandstone- - - - -	1	7
Yellow and gray sand and clay - - - - -	1	8
Yellow sand- - - - -	1	9
Brown and gray clay and sand - - - - -	1	10
Gray sand and clay - - - -	2	12
Brown and gray sand and soapstone- - - - -	1	13
Yellow sand and mica - - -	4	17
Banded yellow and gray sand - - - - -	1	18
Brown and gray sand- - - -	1	19
Banded brown, gray and purple sand and soapstone- - - - -	1	20
Yellow sand- - - - -	1	21
Brown and gray clay- - - -	1	22
Brown, yellow, and gray clay and sand with purple soapstone - - - -	1	23
Banded brown, yellow and gray soapstone - - - - -	1	24
Black soapstone and gray sand - - - - -	1	25
Black soapstone with sand and mica - - - - -	1	26
Brown and gray sand and soapstone- - - - -	3	29
Gray sand and mica with brown soapstone- - - - -	1	30
No water sample collected. Mar. 30, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 238</u>		
Hillside, Walter Grimm tract, Jesus Cantu survey, 3½ miles east of Stockdale-Seguin road, 6½ miles southeast of Seguin.		
Sandy materials - - - - -	5	5
Water level, 2.8 feet below top of ground, ½ hour after hole completed.		
Water sample collected. Mar. 19, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 240</u>		
Hillside, Mrs. Angelina Nitch tract, Jesus Cantu survey, 6 miles southeast of Seguin.		
Sandy materials- - - - -	1	1
Black gumbo clay and concretions- - - - -	4	5
Gray clay and sand - - - -	1	6
No water sample collected. Mar. 26, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 241</u>		
Hillside, Jim Coleman tract, Jesus Cantu survey, 6 1/2 miles southeast of Seguin.		
Sandy materials- - - - -	3	3
Yellow and gray clay and flint gravel - - - - -	1	4
Pink and yellow clay - - - -	1	5
Yellow and gray sand with soapstone- - - - -	6	11
Yellow and gray sand and clay - - - - -	2	13
Gray sand and soapstone- - -	1	14
Brown and white sand and soapstone- - - - -	1	15
Gray sand- - - - -	1	16
Yellow and gray sand and clay - - - - -	1	17
No water sample collected. Mar. 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 246</u>		
Hilltop, E. Heidke tract, Jesus Cantu survey, 5 1/2 miles southeast of Seguin.		
Hard red sand- - - - -	1	1
Red clay - - - - -	1	2
Gray and brown clay- - - - -	2	4
Gray clay with white alkali - - - - -	4	8
Yellow and gray clay - - - -	1	9
Brown and gray sand- - - - -	1	10
Yellow clay and sand - - - -	1	11
Gray sand- - - - -	1	12
Yellow sand- - - - -	1	13
Gray clay- - - - -	4	17
No water sample collected. Mar. 24, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 254</u>		
Terraces, Ruby Porter Seligmar, et al. tract, south side Jesus Cantu survey, 6 1/2 miles southeast of Seguin.		
Sandy materials - - - - -	2	2
Yellow and gray clay with sandy concretions- - - - -	4	6
Yellow and gray clay and carbonaceous clay, vertical cracks- - - - -	3	9

	Thickness (feet)	Depth (feet)
<u>Well 254--Continued</u>		
Brown, yellow, and gray sand - - - - -		
3	12	
Wet clay with brown and black carbonaceous clay- - -		
7	19	
No water sample collected. Mar. 25, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 257</u>		
Hillside, James Campbell tract, north- west corner F. W. Hubert survey, 7 1/2 miles southeast of Seguin.		
Sandy materials- - - - -	7	7
Red clay and sand- - - - -	2	9
Red clay and soapstone - - -	1	10
Yellow sandstone - - - - -		10
No water sample collected. Mar. 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 25C</u>		
Hillside, W. H. Baxter tract, near northeast corner F. W. Hubert survey, 7 1/2 miles southeast of Seguin.		
Sandy materials- - - - -	12	12
Red sand and clay concretions- - - - -	5	17
Banded yellow and red sand- -	1	18
Red sand and clay with concretions- - - - -	4	22
Water level, 21.1 feet below top of ground, 24 hours after hole completed. No water sample collected. Mar. 19, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 260</u>		
Hillside, Mrs. Wm. Hartwig tract, Richard Nixon survey, 8 1/2 miles southeast of Seguin.		
Sandy materials- - - - -	7	7
Water level, 5.2 feet below top of ground, 1 1/2 hours after hole completed. Water sample collected. April 23, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 262</u>		
River terraces, Mrs. Wm. Hartwig tract, Richard Nixon survey, 8 1/2 miles south- east of Seguin.		
Sandy materials- - - - -	5	5
Water level, 3.1 feet below top of ground, 1/2 hour after hole completed. Water sample collected. Mar. 30, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 263</u>		
Hillside, C. M. Wells tract, C. C. Carrier survey, 9 miles southeast of Seguin.		
Sandy materials- - - - -	6	6
Coarse-grained brown sand with concretions - - - - -	5	11

(Continued on next page)

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

	Thickness (feet)	Depth (feet)
<u>Well 263--Continued</u>		
Coarse-grained yellow sand-	3	14
Banded yellow, gray, orange and pink clay- - - - -	2	16
No water sample collected. April 21, 1936.		

<u>Well 264</u>		
Hillside, S. P. Dibrell tract, near northeast corner H. & T. C. R. R. Co. survey 6, 9 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy materials- - - - -	5	0
Water level, 1.8 feet below top of ground, 3 hours after hole completed.		
Water sample collected. Mar. 9, 1936.		

<u>Well 265</u>		
Creek terraces, C. H. Wells tract, Thos. J. Weeks survey, 11 miles southeast of Seguin.		
Sandy materials- - - - -	3	3
Yellow, gray, and pink clay with sand - - - - -	2	5
Water level, 4.6 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected. April 11, 1936.		

<u>Well 266</u>		
Gentle slope, A. W. Batey Estate, near southwest corner H. & T. C. R. R. Co. survey 5, 10 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy materials- - - - -	15	15
Red sand and clay- - - - -	5	20
Soapstone and sand - - - -	2	22
Red sand and clay- - - - -	1	23
Banded soapstone and sand-	2	25
Red sand and clay- - - - -	1	26
No water sample collected. Mar. 9, 1936.		

<u>Well 268</u>		
Hilltop, J. W. Dibrell tract, near northwest corner H. & T. C. R. R. Co. survey 6, 9 miles southeast of Seguin.		
Sandy materials- - - - -	4	
Red and pink clay- - - - -	1	
Water level, 3.9 feet below top of ground, 2/3 hour after hole completed.		
Water sample collected. Mar. 11, 1936.		

<u>Well 269</u>		
Hillside, Dibrell, Baxter, and Wood tract, near southeast corner F. W. Hubert survey, 8 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy materials- - - - -	4	4
Red clay - - - - -		4
Water level, 2.9 feet below top of		

	Thickness (feet)	Depth (feet)
<u>Well 269--Continued</u>		
ground, $\frac{1}{3}$ hour after hole completed.		
Water sample collected. Mar. 13, 1936.		

<u>Well 270</u>		
Hillside, Dibrell, Baxter, and Wood tract, near southwest corner, H. & T. C. R. R. Co. survey 7, 9 miles southeast of Seguin.		
Sandy materials- - - - -	4	4
Red and yellow clay- - - -	1	5
Water level, 4.3 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected. Mar. 13, 1936.		

<u>Well 271</u>		
Hillside, A. W. Batey Estate, northeast corner H. & T. C. R. R. Co. survey 9, 9 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy materials- - - - -	3	8
Red and yellow sand and clay - - - - -	7	15
Red sand and clay- - - - -	8	23
Gray and red sand- - - - -	1	24
Red sand and clay- - - - -	2	26
No water sample collected. Mar. 11, 1936.		

<u>Well 272</u>		
Hillside, A. W. Batey Estate, near southeast corner H. & T. C. R. R. Co. survey 11, 11 miles southeast of Seguin.		
Red sandstone and gravel-	7	7
Red and purple sand with clay and concre- tions- - - - -	3	10
Red sand, clay, and soapstone- - - - -	3	13
Water level, 11.8 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected. Mar. 10, 1936.		

<u>Well 273</u>		
Hillside, C. H. Wells tract, Thos. J. Weeks survey, 11 $\frac{1}{2}$ miles southeast of Seguin.		
Sand and concretions - - -	3	8
Mixed yellow, orange, gray, and purple sand- - - - -	1	9
Banded orange, gray, and yellow sand- - - - -	5	14
Banded yellow, gray, purple, and brown sand with mica and soapstone flakes - -	1	15
Brown sand and mica- - - -	3	18
Banded yellow and brown sand	1	19
No water sample collected. April 11, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 275</u>		
Hilltop, C. M. Wells tract, near center Thos. J. Weeks survey, 12 miles south- east of Seguin.		
Sandy materials- - - - -	8	8
Yellow clay- - - - -	1	9
Water level, 8.3 feet below top of ground, 1/2 hour after hole completed.		
Water sample collected. Mar. 12, 1936.		

<u>Well 278</u>		
Flat, A. W. Batey Estate, Patrick Lynch survey, 13 1/2 miles southeast of Seguin.		
Sandy materials- - - - -	3	3
Black sand- - - - -	2	5
Water level, 3.4 feet below top of ground, 1/2 hour after hole completed.		
Water sample collected. April 4, 1936.		

<u>Well 285</u>		
Flat, G. W. Lackey Estate, near center Patrick Lynch survey, 14 miles south- east of Seguin.		
Sandy materials- - - - -	3	3
Brown clay and sand- - - - -	1	4
Red and gray clay and ferruginous gravel - - -	3	7
Cracked yellow and gray clay - - - - -	1	8
Brown, yellow, and gray mixed clay and gray sandstone- - - - -	1	9
Yellow and gray clay and sand - - - - -	1	10
Red sand and ferruginous gravel - - - - -	1	11
Gray and yellow clay - - -	1	12
No water sample collected. Mar. 23, 1936.		

<u>Well 291</u>		
S. C. Cowey tract, Patrick Lynch survey, 15 miles southeast of Seguin.		
Sandy materials- - - - -	2	2
Red clay- - - - -	1	3
Limestone - - - - -	1	4
Yellow clay and soapstone-	2	6
Brown clay and sand- - - -	1	7
Yellow sand and mica with clay - - - - -	1	8
Yellow and gray sand with mica - - - - -	4	12
Purple soapstone - - - - -	1	13
Brown, purple, and yellow soapstone- - - - -	1	14
Banded yellow, purple, and gray clayey sand with mica	2	16

	Thickness (feet)	Depth (feet)
<u>Well 291--Continued</u>		
Purple sand with mica and soapstone- - - - -	1	17
Yellow sand- - - - -	1	18
Gray and brown sand with mica - - - - -	1	19
Yellow and gray sand with mica - - - - -	4	23
Purple, brown, and yellow sand with mica - - - - -	1	24
Banded brown, yellow and gray sand with mica- - -	4	28
Gray sand and mica - - - -	1	29
Banded purple, and yellow sand - - - - -	7	36
Hard purple sand with mica and flat sandy concretions	1	37
Brown and purple sand with mica - - - - -	1	38
Gray sand and yellow sandy concretions- - - - -	2	40
Black sand with mica - - -	4	44
Water level, 34 feet below top of ground, 1 hour after hole completed.		
Water sample collected. April 15, 1936.		

<u>Well 294</u>		
Geel terraces, Lloyd Hurt tract, Patrick Lynch survey, 13 1/2 miles south- east of Seguin.		
Sandy materials- - - - -	2	2
Yellow clay and sand - - -	1	3
Yellow and red clay- - - -	1	4
Banded gray, red, yellow, and pink soapstone - - -	4	8
No water sample collected. Mar. 23, 1936.		

<u>Well 297</u>		
Hillside, Schnitzdobel tract, Patrick Lynch survey, 14 1/2 miles southeast of Seguin.		
Sandy materials- - - - -	5	5
Yellow clay and sand - - -	1	6
Soapstone and soft red sandstone- - - - -	1	7
Yellow sandstone - - - - -		7
No water sample collected. Feb. 27, 1936.		

<u>Well 299</u>		
Hillside, H. H. Weinert tract, near center Geo. W. Martin survey, 14 miles southeast of Seguin.		
Sandy materials- - - - -	1	1
Blue clay- - - - -	1	2
Yellow clay- - - - -	5	7
Yellow sand with clay- - -	3	10

	Thickness (feet)	Depth (feet)
<u>Well 299--Continued</u>		
Red and gray clay- - - - -	3	13
Yellow clay with ferruginous gravel and glauconite- -	1	14
Gray sand- - - - -	1	15
Yellow clay and soapstone-	1	16
Fine-grained white sand- -	2	18
No water sample collected. Feb. 25, 1936.		
<u>Well 300</u>		
Hillside, C. H. Schmidt tract, center south line Dolphin Floyd survey, 13 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy materials- - - - -	3	3
Banded yellow, gray, and red clay - - - - -	7	10
Banded yellow, gray, and red clay and chalk - - - - -	1	11
Yellow clay and soapstone-	3	14
Banded yellow and gray sand-	3	17
Yellow clay and soapstone-	2	19
Brown clay and soapstone -	1	20
Red iron ore - - - - -	1	21
Yellow clay and soapstone-	1	22
Brown and yellow clay and soapstone- - - - -	4	26
Brown clay and sand with soapstone- - - - -	1	27
No water sample collected. Feb. 25, 1936.		
<u>Well 302</u>		
Gently rolling, San Antonio Loan and Trust Co. tract, southwest corner J. A. Miller survey, 12 miles southeast of Seguin.		
Sandy materials- - - - -	3	3
Yellow and gray clay with ferruginous concretions-	1	4
Red, yellow and gray clay-	1	5
Red and gray clay and flat iron concretions- - - - -	2	7
Red clay - - - - -	2	9
Red and yellow clay and sand- - - - -	2	11
Yellow sand- - - - -	2	13
Dark yellow sand - - - - -	1	14
Gray sand and mica - - - - -	1	15
Yellow sand and flat concretions- - - - -	1	16
Gray sand, almost powder -	2	18
Gray and yellow sand with mica - - - - -	8	26
Banded gray, pink and yellow sand- - - - -	4	30

	Thickness (feet)	Depth (feet)
<u>Well 302--Continued</u>		
Hard yellow sandstone- - -		30
No water sample collected. Feb. 13, 1936.		
<u>Well 303</u>		
Creek bottoms, C. H. Schmidt tract, C. Maurer survey, 12 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy materials- - - - -	5	5
Clean white sand - - - - -	3	3
Yellow sand with clay balls	1	9
Coarse brown and yellow clay and sand- - - - -	1	10
Yellow clay with sand- - -		10
No water sample collected. Feb. 13, 1936.		
<u>Well 304</u>		
A. W. Batey Estate, Jane A. B. Batey survey, 12 miles southeast of Seguin.		
Soft sandstone gravel- - -	5	5
Yellow clay and sand - - -	1	6
Banded yellow and red clay and white sand- - -	1	7
Gray sand and sandstone- -	1	8
Water level, 7.4 feet below top of ground, $\frac{1}{2}$ hour after hole completed. Water sample collected. Feb. 24, 1936.		
<u>Well 306</u>		
Hillside, C. H. Schmidt tract, W. B. Miller survey, 11 $\frac{1}{2}$ miles southeast of Seguin.		
Sandy surface materials- -	7	7
Red clay - - - - -		7
Water level, 5.7 feet below top of ground, $\frac{1}{2}$ hour after hole completed. Water sample collected. Mar. 7, 1936.		
<u>Well 307</u>		
Hillside, C. M. Wells tract, H. & T. C. R. R. Co. survey 13, 12 miles southeast of Seguin.		
Sandy materials- - - - -	9	9
Banded yellow, gray, and red clay - - - - -	3	12
Water level, 8.2 feet below top of ground, $\frac{1}{2}$ hour after hole completed. Water sample collected. April 27, 1936.		
<u>Well 308</u>		
Top ridge, C. M. Wells tract, east side H. & T. C. R. R. Co. survey 13, 12 miles southeast of Seguin.		
Sandy materials- - - - -	3	3

Logs of U. P. A. test wells in Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 308--Continued</u>		
Red and yellow clay- - - -	1	4
Cracked red, pink, and gray clay - - - - -	1	5
Yellow clay and sand - - -	2	7
Mixed pink, yellow, and gray sand - - - - -	1	8
Gray clay- - - - -	1	9
Cracked red, pink, and gray clay- - - - -	1	10
Pink sand and hard brown sandstone- - - - -	1	11
Brown and broken sandstone-	1	12
Pink and gray sand and clay-	2	14
Brown and gray clay and sand - - - - -	2	16
No water sample collected. Mar. 12, 1936.		

<u>Well 309</u>		
Ridge near creek, A. W. Batey Estate, near southeast corner H. & T. C. R. R. Co. survey 12, 11½ miles southeast of Seguin.		
Sandy materials- - - - -	4	4
Water level, 3 feet below top of ground, 2 hour after hole completed.		
Water sample collected. Mar. 10, 1936.		

<u>Well 311</u>		
Gentle slope, Charlie Schmidt tract, E. W. Miller survey, 11 miles southeast of Seguin.		
Sandy materials- - - - -	2	2
Red and yellow clay- - - -	1	3
Water level, 1.4 feet below top of ground, 1 hour after hole completed.		
Water sample collected. Mar. 6, 1936.		

<u>Well 311A</u>		
Gentle slope, Charlie Schmidt tract, E. W. Miller survey, 11 miles southeast of Seguin.		
Sandy materials- - - - -	1	1
Ferruginous gravel - - - -	1	2
Red and yellow clay- - - -	1	3
Brown and pink clay- - - -	1	4
Yellow, pink, brown, and purple clay with sand- -	1	5
Water level, 4.3 feet below top of ground, ½ hour after hole completed.		
Water sample collected. Mar. 7, 1936.		

<u>Well 312</u>		
Hillside, A. W. Batey Estate, H. & T. C. R. R. Co. survey 10, 10 miles southeast		

	Thickness (feet)	Depth (feet)
<u>Well 312--Continued</u>		
of Seguin.		
Sandy materials- - - - -	9	9
Mixed red and yellow clay-	1	10
Red sand and clay- - - - -	2	12
Hard sandstone - - - - -	1	13
Mixed red and pink sand- -	2	15
Soft red sandstone - - - -	1	16
Purple sand and soapstone-	1	17
No water sample collected. Mar. 7, 1936.		

<u>Well 314</u>		
Hillside, A. W. Batey Estate, H. & T. C. R. R. Co. survey 10, 11 miles southeast of Seguin.		
Sandy surface materials -	9	9
Ferruginous gravel with brown and gray sand and dark red sandstone- - - -		
Red sand and clay- - - - -	2	11
Banded yellow and red clay and sand - - - - -	4	15
Mixed yellow, red, and gray clay with soapstone and sand - - - - -	1	16
Yellow clay and sand - - -	2	18
Yellow and red sand and clay - - - - -	1	19
Yellow sand, some clay - -	2	20
Yellow sand, some clay - -	4	24
No water sample collected. Mar. 7, 1936.		

<u>Well 316</u>		
Hillside, Alfred Koebig tract, near west side H. & T. C. R. R. Co. survey 14, 11 miles southeast of Seguin.		
Sandy materials- - - - -	6	6
Red clay and sand with ferruginous conglomerate-	2	8
Red clay and sand- - - - -	4	12
Hard red sandstone - - - -		12
No water sample collected. Feb. 5, 1936.		

<u>Well 317</u>		
Hilltop, A. W. Batey Estate, H. & T. C. R. R. Co. survey 15, 10½ miles south- west of Seguin.		
Sandy materials- - - - -	11	11
Yellow clay and sand - - -	9	20
Red clay and ferruginous conglomerate - - - - -	3	23
Coarse red sand, clay- - -	3	26
Red sand and clay- - - - -	7	33
Red sand and clay with red sandstone- - - - -	1	34
Red and yellow streaks of clay and sand- - - - -	1	35

	Thickness (feet)	Depth (feet)
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Well 317--Continued

No water sample collected. Feb. 13, 1936.

Well 319

Hillside, H. H. Weinert tract, H. & T. C. R. R. Co. survey 16, 10 miles southeast of Seguin.

Sandy materials-	6	6
Red streaked sand-	2	8
White sand and red sand-stone-	2	10
Red and white sand	5	15
Red sand	1	16
Red sand and clay-	1	17

No water sample collected. Feb. 13, 1936.

Well 320

Hillside, H. H. Weinert tract, southeast corner H. & T. C. R. R. Co. survey 17, 9 1/2 miles southeast of Seguin.

Sandy materials-	4	4
Clean white sand	8	12
Yellow sand-	1	13
Banded red and yellow sand-	4	17
Yellow sand-	3	20
Yellow sand and soapstone-	1	21
Yellow sand and clay	2	23

No water sample collected. Feb. 5, 1937.

Well 321

John Moss tract, C. C. Kimble survey, 9 1/2 miles southeast of Seguin.

Sandy surface materials-	2	2
Yellow and blue clay	1	3
Mixed gray and yellow clay with sand-	5	8
Yellow, red, brown, and gray clay with sand-	1	9
Yellow and gray sand--	2	11
Soapstone and coarse-grained white sand	1	12
Mixed yellow and brown sand and soapstone	2	14
Yellow and gray clay and sand	3	17

Water level, 2 feet below top of ground, 144 hours after hole completed.

Water sample collected. Feb. 28, 1936.

Well 322

Top ridge, Dr. A. H. Neighbors tract, State School survey, 9 miles southeast of Seguin.

Sandy materials-	9	9
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Water level, 7.5 feet below top of ground, 1 hour after hole completed.

	Thickness (feet)	Depth (feet)
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Well 322--Continued

Water sample collected. Mar. 24, 1936.

Well 323

Hillside, Dr. A. H. Neighbors tract, State School Land survey, 9 miles southeast of Seguin.

Sandy materials-	10	10
Yellow sand and clay	7	17
Yellow sand and soapstone-	1	18
Fine-grained yellow sand	4	22

No water sample collected. Mar. 24, 1936.

Well 325

Hillside, Dr. A. H. Neighbors tract, State School survey, 8 1/2 miles southeast of Seguin.

Sandy materials-	2	2
Black sand	2	4

Water level, 3.3 feet below top of ground, 1/2 hour after hole completed.

Water sample collected. Mar. 25, 1936.

Well 330

Hillside, Mrs. Sid George tract, T. Jackson survey, 8 1/2 miles south of Seguin.

Sandy materials-	5	5
Red and yellow clay and sand	1	6
Yellow sand and thin soapstone layers	2	8
White sand	1	9

Water level, 5.4 feet below top of ground, 1 hour after hole completed.

Water sample collected. Feb. 19, 1936.

Well 331

Hillside, H. H. Weinert tract, north side H. & T. C. R. R. Co. survey 17, 2 1/2 miles south of Seguin.

Ferruginous sandstone-	3	3
Yellow clay and sand	1	4
Red sand and soapstone	1	5
Soapstone-	2	7

No water sample collected. Feb. 8, 1936.

Well 332

Hillside, H. H. Weinert tract, R. White survey, 8 1/2 miles south of Seguin.

Sandy materials-	2	2
Yellow clay and sand	1	3
Yellow and red clay-	3	6
Yellow clay and white sandstone-	1	7
Hard white sandstone		7



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

	Thickness (feet)	Depth (feet)
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Well 332--Continued

No water sample collected. Feb. 11, 1936.

Well 334

Hillside, H. H. Weinert tract, State School Land survey, 9 $\frac{1}{2}$  miles south of Seguin.

Sandy materials-	3	3
Red clay and sand-	8	11
Red clay and sand with soapstone-	1	12
Red clay and sand-	1	13
Sandstone-		13

No water sample collected. Feb. 10, 1936.

Well 335

Top of flat hill, H. H. Weinert tract, north corner H. & T. C. R. R. Co. survey 16, 9 $\frac{1}{2}$  miles south of Seguin.

Sandy materials-	4	4
Red and yellow clay-	1	5

No water sample collected. Feb. 8, 1936.

Well 338

Hillside, H. H. Weinert tract, H. & T. C. R. R. Co. survey 22, 11 $\frac{1}{2}$  miles south of Seguin.

Sandy materials-	7	7
Clean white sand	6	13
Soft red sandstone	4	17
Hard red sandstone		17

No water sample collected. Feb. 3, 1936.

Well 341

Hillside, H. H. Weinert tract, east end B. Eisentrager survey, 12 miles south of Seguin.

Sandy materials-	4	4
Yellow clay and sand	1	5
Red, yellow, and gray clay-	1	6

No water sample collected. Feb. 4, 1936.

Well 342

Hillside, Alec Adcock tract, Chas. Walker survey, 12 $\frac{1}{2}$  miles south of Seguin.

Sandy materials-	1	1
Red clay with ironstone-	2	3
Fine-grained yellow sand and yellow clay-	1	4
Hard brown sandstone	1	5

No water sample collected. Feb. 3, 1936.

	Thickness (feet)	Depth (feet)
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Well 344

Hillside, Walter Lynn tract, center north side C. Smith survey, 15 miles southeast of Seguin.

Sandy materials-	3	3
Red and gray clay-	2	5
Red clay and soapstone	1	6
Yellow sandstone	1	7
Gray sandstone	1	8
Red and yellow sandstone-	1	9
Soft yellow and gray sandstone-	1	10
Red sand and gray clay	1	11
Gray sand and red iron oxide-	1	12
Red and gray clay and sand	1	13
Yellow clay and soapstone-	1	14
White soapstone-	1	15
Brown clay	1	16
Red, yellow, and pink clay and soapstone-	1	17
Pink clay and soapstone-	1	18
Coarse-grained red and yellow sand-	1	19
Fine-grained pink sand	1	20
Purple sand-	1	21
Fine-grained yellow sand	1	22
Pink sand-	2	24
Yellow sand and sandstone-	1	25
Gray sand-	1	26
Pink sand-	1	27
Yellow sand-	4	31
White sand	1	32
Yellow sand-	2	34
White sand, brown and purple clay-	1	35
White sand, yellow clay and soapstone-	1	36
Brown, white, and gray soapstone-	2	38
Purple soapstone	1	39
Yellow and gray clay and soapstone-	1	40

No water sample collected. Feb. 14, 1936.

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

	Thickness (feet)	Depth (feet)
<u>Well 350</u>		
Hillside, W. M. Patterson tract, center south side R. Hobbs survey, 13 miles south of Seguin.		
Sandy materials- - - - -	4	4
Sand and ferruginous gravel	1	5
Banded pink, yellow, and red clay- - - - -	2	7
Red clay and sand- - - - -	1	8
Banded red and yellow clay and sand - - - - -	4	12
Hard gray sand and clay- -		12
No water sample collected.		Feb. 20, 1936.

<u>Well 353</u>		
Flat, H. H. Weinert tract, east end H. & T. C. R. R. Co. survey 26, 11½ miles south of Seguin.		
Sandy materials- - - - -	4	4
Red and gray clay and sand	1	5
Red sandstone- - - - -		5
No water sample collected.		Feb. 4, 1936.

<u>Well 354</u>		
Hillside, H. H. Weinert tract, H. & T. C. R. R. Co. survey 23, 11 miles south of Seguin.		
Sandy materials- - - - -	6	6
Red clay and sand- - - - -	1	7
Red, gray and yellow clay-	1	8
Sand and red and yellow clay - - - - -	1	9
No water sample collected.		Jan. 31, 1936.

<u>Well 355</u>		
H. H. Weinert tract, H. & T. C. R. R. Co. survey 23, 11 miles south of Seguin.		
Sandy materials- - - - -	7	7
Red and yellow clay and sand - - - - -	2	9
Red clay and sand- - - - -	7	16
No water sample collected.		Jan. 31, 1936.

<u>Well 356</u>		
Hillside, H. H. Weinert tract, center north side C. H. McCracken survey, 12 miles south of Seguin.		
Sandy materials- - - - -	5	5
Red and yellow clay and sand- - - - -	1	6
No water sample collected.		Jan. 24, 1936.

	Thickness (feet)	Depth (feet)
<u>Well 358</u>		
Hillside, West End Lumber Co. tract, side of Seguin-Stockdale highway, H. & T. C. R. R. Co. survey 27, 12 miles south of Seguin.		
Sandy materials- - - - -	7	7
Red sand and clay- - - - -	8	15
Red and white sand and clay	5	20
Red clay and water sand- -	15	35
No water sample collected.		Dec. 31, 1936.

<u>Well 359</u>		
Flat, H. H. Weinert tract, H. & T. C. R. R. Co. survey 27, 12 miles south of Seguin.		
Sandy materials- - - - -	6	6
Red sandy clay - - - - -	1	7
No water sample collected.		Dec. 27, 1935.

<u>Well 360</u>		
Bottom of highway ditch, J. Noyland tract, H. & T. C. R. R. Co. survey 27, 12½ miles south of Seguin.		
Sandy materials- - - - -	5	5
Red sand and clay- - - - -	1	6
No water sample collected.		Dec. 27, 1935.

<u>Well 361</u>		
Creek bottoms, West End Lumber Co. tract, near south corner H. & T. C. R. R. Co. survey 27, 12½ miles south of Seguin.		
Sandy materials- - - - -	3	3
Sand and water - - - - -		3
No water sample collected.		Dec. 27, 1935.

<u>Well 363</u>		
Creek bottoms, West End Lumber Co. tract, north center H. & T. C. R. R. Co. survey 27, 11½ miles south of Seguin.		
Sandy materials- - - - -	2	2
Red sand and clay- - - - -	1	3
Red clay - - - - -	2	5
Red clay and sand- - - - -	2	7
Yellow clay- - - - -	1	8
Gray clay- - - - -	2	10
Hard gray clay - - - - -	2	12
No water sample collected.		Dec. 30, 1935.

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

	Thickness (feet)	Depth (feet)
<u>Well 364</u>		
Flat, H. H. Weinert tract, near west end H. & T. C. R. R. Co. survey 26, 11 miles south of Seguin.		
Sandy materials- - - - -	6	6
Red sand and clay- - - - -	6	12
Red sandstone- - - - -		12
No water sample collected. Dec. 31, 1935.		

	Thickness (feet)	Depth (feet)
<u>Well 365</u>		
Hilltop, A. B. Freeman tract, near Seguin-Stockdale highway, C. McCracken survey, 10½ miles south of Seguin.		
Sandy materials- - - - -	3	3
Red clay and sand- - - - -	1	4
No water sample collected. Jan. 3, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 366</u>		
Flat, Amos Ball tract, southeast corner A. Tillman survey, 10 miles south of Seguin.		
Sandy materials- - - - -	4	4
Red and yellow clay and sand and gravel- - - - -	2	6
Gray and yellow clay and sand- - - - -	2	8
No water sample collected. Jan. 23, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 368</u>		
Hilltop, H. V. Weinert tract, H. & T. C. R. R. Co. survey 24, 10 miles south of Seguin.		
Sandy materials- - - - -	8	8
Soft brown sandstone - - -	2	10
No water sample collected. Jan. 28, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 382</u>		
Flat, Eugene Wilcox tract, J. O. Blair survey, 9½ miles south of Seguin.		
Sandy materials- - - - -	1	1
Yellow clay, sand and gravel - - - - -	4	5
Gray and yellow clay - - -	1	6
Soft gray and yellow sand- stone and yellow clay and flint gravel - - - -	1	7
Layers of yellow and gray clay - - - - -	1	8
Yellow sand and clay - - -	1	9
No water sample collected. Jan. 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 386</u>		
Hillside, Tom Wilcox tract, J. O. Blair survey, 9½ miles south of Seguin.		
Sandy materials- - - - -	3	3
Red clay and sand- - - - -	1	4
Gray sand- - - - -	3	7
Red clay and sand- - - - -	7	14
No water sample collected. Jan. 22, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 387</u>		
Top of ridge, F. W. Schraub tract, south corner J. O. Blair survey, 10 miles south of Seguin.		
Sandy materials- - - - -	1	1
Red clay and sand- - - - -	3	4
Sand and gray clay and sand-	1	5
Hard red sandstone - - - -		5
No water sample collected. Jan. 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 390</u>		
F. W. Schraub tract, J. O. Blair survey, 10 miles south of Seguin.		
Sandy materials- - - - -	6	6
Ferruginous gravel - - - -	1	7
Gray clay and sand - - - -		7
No water sample collected. Jan. 21, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 393</u>		
Hillside, F. W. Schraub tract, J. O. Blair survey, 10½ miles south of Seguin.		
Sandy materials- - - - -	4	4
Water level, 2.5 feet below top of ground, 1 hour after hole completed.		
Water sample collected. May 13, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 394</u>		
Hillside, F. W. Schraub tract, J. O. Blair survey, 10½ miles south of Seguin.		
Sandy materials- - - - -	4	4
Banded yellow and white sand, flint gravel - - - - -	3	7
Soft brown sandstone - - -	2	9
Hard brown sandstone - - -	2	11
No water sample collected. Jan. 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 395</u>		
Hillside, F. W. Schraub tract, south- east corner J. O. Blair survey, 10½ miles south of Seguin.		
Sandy materials- - - - -	3	3
Red and yellow clay and sand - - - - -	1	4
Banded red, yellow, and gray soapstone- - - - -	1	5

(Continued on next page)

Logs of W. F. test wells in Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
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Well 395--Continued

Coarse-grained red sand and clay with gray soapstone- 2 | 7  
 Banded red and yellow sand- 1 | 8  
 No water sample collected. May 12, 1936.

Well 396

Hilltop, West End Lumber Co. tract, near west line H. & T. C. R. R. Co. survey 25, 11 miles south of Seguin.  
 Sandy materials- - - - - 4 | 4  
 Red sandstone- - - - - 1 | 5  
 White sand - - - - - 1 | 6  
 Yellow clay and sand - - - 1 | 7  
 Gray clay and sand with soapstone- - - - - 1 | 8  
 Hard red sandstone - - - - 8  
 No water sample collected. Jan. 22, 1936.

Well 398

Hilltop, West End Lumber Co. tract, H. & T. C. R. R. Co. survey 29, 11 1/2 miles south of Seguin.  
 Sandy materials- - - - - 6 | 6  
 Red clay and sand- - - - - 4 | 10  
 Soft red sandstone and clay with flint gravel - 1 | 11  
 No water sample collected. Jan. 2, 1936.

Well 399

Side drive, West End Lumber Co. tract, center H. & T. C. R. R. Co. survey 29, 12 miles south of Seguin.  
 Sandy surface materials- - 6 | 6  
 No water sample collected. Jan. 2, 1936.

Well 400

Terraces, P. J. Sculley tract, H. & T. C. R. R. Co. survey 32, 12 1/2 miles south of Seguin.  
 Sandy materials- - - - - 5 | 5  
 Red and gray clay- - - - - 3 | 8  
 Yellow clay and sand - - - 1 | 9  
 No water sample collected. Jan. 6, 1936.

Well 401

Hillside, West End Lumber Co. tract, west corner H. & T. C. R. R. Co. survey 29, 12 miles south of Seguin.  
 Sandy surface materials- - 5 | 5  
 No water sample collected. Jan. 2, 1936.

	Thickness (feet)	Depth (feet)
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Well 402

Hillside, Hiram Jackson tract, H. & T. C. R. R. Co. survey 30, 11 1/2 miles south of Seguin.  
 Sandy materials- - - - - 5 | 5  
 Red clay and sand- - - - - 2 | 7  
 No water sample collected. Jan. 8, 1936.

Well 403

Top sand dune, W. F. Watt tract, H. & T. C. R. R. Co. survey 32, 12 miles south of Seguin.  
 Sandy materials- - - - - 2 | 2  
 Yellow and red clay- - - - 2 | 4  
 Soft red sandstone - - - - 1 | 5  
 No water sample collected. Jan. 6, 1936.

Well 405

Flat, P. J. Sculley tract, H. & T. C. R. R. Co. survey 32, 12 miles south of Seguin.  
 Sandy materials- - - - - 5 | 5  
 Yellow clay and ferruginous sandstone- - - - - 1 | 6  
 Water sand - - - - - - - - 6  
 No water sample collected. Jan. 6, 1936.

Well 406

G. F. Diekow tract, H. & T. C. R. R. Co. survey 31, 12 miles south of Seguin.  
 Sandy surface materials- - 2 | 2  
 Red and yellow clay and sand - - - - - 1 | 3  
 Banded red and yellow clay- 1 | 4  
 Cracked red, yellow, and gray clay and mica - - - 2 | 6  
 Pink, brown, and yellow sand - - - - - 1 | 7  
 Coarse-grained red sand and mica - - - - - 1 | 8  
 Banded red and gray sand - 1 | 9  
 Gray sand with mica- - - - 3 | 12  
 Banded yellow and light brown sand with mica - - 1 | 13  
 Pink sand and mica - - - - 1 | 14  
 Yellow sand and mica - - - 1 | 15  
 White sand and mica- - - - 2 | 17  
 Yellow sand and mica - - - 1 | 18  
 Banded yellow, white, and pink sand and mica - - - 1 | 19  
 Brown sand and concretions- 1 | 20  
 Yellow sand and mica - - - 1 | 21  
 White sand and mica- - - - 1 | 22

(Continued on next page)

Logs of U. S. G. test in Madison County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 406--Continued</u>		
Yellow and gray sand mixed with manganese and mica-	2	24
Mixed yellow, gray, and purple sand-	1	25
Brown and yellow soapstone and hard sandstone - - -	1	26
Coarse-grained brown sand and mica - - - - -	3	29
Coarse-grained pink sand and mica- - - - -	1	30
Banded yellow, pink, and gray sand- - - - -	1	31
Yellow sand and mica - - -	1	32
Gray sand and mica - - - -	1	33
Coarse-grained red sand- -	2	35
Mixed coarse-grained yellow, gray, and pink sand with mica - - - - -	1	36
Banded gray and yellow sand - - - - -	1	37
Yellow sand and mica - - -	2	39
Yellow and gray sand and mica - - - - -	1	40
Coarse-grained pink and yellow sand- - - - -	1	41
Yellow and gray sand and mica - - - - -	1	42
Banded yellow, pink, and gray sand- - - - -	1	43
Mixed yellow and red sand-	1	44
Banded yellow, pink, and purple sand- - - - -	1	45
Yellow sand and mica - - -	2	47
Yellow, pink, and gray sand and mica with flat concretions- - - - -	1	48
Pink and yellow sand and mica - - - - -	2	50
Coarse-grained purple sand-	2	52
Yellow and pink sand and mica with flat concretions	4	56
Coarse-grained red and brown sand - - - - -	1	57
Coarse-grained yellow and brown sand - - - - -	1	58
Coarse-grained pink sand -	1	59
Coarse-grained pink and yellow sand and mica with flat concretions - - - -	3	62
Banded yellow pink and brown sand and mica with concretions- - - - -	1	63
Yellow and pink sand with flat concretions - - - -	1	64

	Thickness (feet)	Depth (feet)
<u>Well 406--Continued</u>		
Banded pink, yellow, and gray sand and clay - - -	1	65
Yellow and pink sand with black streaks and round concretions- - - - -	2	67
Mixed yellow, pink, and gray sand and mica - - -	1	68
Mixed yellow and gray sand and mica-- - - - - -	2	70
Banded gray and yellow sand- - - - -	2	72
Pink sand and mica - - - -	1	73
Banded pink and gray sand and mica - - - - -	1	74
Coarse-grained yellow quartz sand- - - - -	1	75
Mixed pink and yellow sand and mica - - - - -	1	76
Mixed yellow and gray sand and mica - - - - -	1	77
Pink sand and mica - - - -	1	78
Banded brown and pink sand-	1	79
Mixed pink, yellow and gray sand - - - - -	5	82
Yellow sand and mica - - -	5	87
Mixed yellow and gray sand with round concretions -	1	88
Yellow sand and mica - - -	1	89
Gray sand and mica- - - - -	4	93
Mixed yellow and gray sand-	2	95
Gray sand and mica - - - -	1	96
Gray sand with yellow streaks- - - - -	1	97
Mixed gray and brown sand-	1	98
Gray sand and mica - - - -	1	99
Mixed yellow and gray sand-	1	100
Banded yellow and gray sand-	1	101
Mixed yellow, pink, and gray sand- - - - -	1	102
Gray sand with brown streaks	1	103
Mixed gray and pink sand and mica - - - - -	1	104
Yellow sand and mica - - -	3	107
Mixed pink and yellow sand-	2	109
Yellow sand and mica - - -	1	110
Mixed brown and gray sand with flat concretions- -	1	111
Pink and yellow sand and soapstone- - - - -	1	112
Mixed yellow, pink, and gray sand and concretions	3	115
Mixed yellow and gray sand-	2	117
Water level, 114.5 feet below top of ground, 2 1/2 hours after hole completed. Water sample collected. May 26, 1936.		

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

	Thickness (feet)	Depth (feet)
<u>Well 407</u>		
Hillside, Hiram Jackson tract, H. & I. C. R. R. Co. survey 30, 11 $\frac{1}{2}$ miles south of Seguin.		
Sandy materials- - - - -	6	6
Red clay streaks and sand-	2	8
Flint gravel - - - - -		8
No water sample collected. Jan. 10, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 408</u>		
Hillside, Austin Norwood farm, J. A. J. Harworth survey, 11 $\frac{1}{2}$ miles south of Seguin.		
Sandy materials- - - - -	7	7
Flint gravel- - - - -	1	8
Red clay and sand- - - - -	1	9
No water sample collected. Jan. 9, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 409</u>		
Terraces, Mrs. Anna Hoermann tract, center southeast side T. Long survey, 11 miles south of Seguin.		
Sandy materials- - - - -	9	9
Flint gravel-- - - - -	1	10
Red clay and sand- - - - -	5	15
Yellow clay and sand - - - -	2	17
Red clay - - - - -	7	24
Red clay and sand- - - - -	5	29
No water sample collected. Jan. 14, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 410</u>		
Flat, Molly Pitts tract, center north-west side T. Long survey, 11 miles south of Seguin.		
Sandy materials- - - - -	1	1
Yellow clay and sand and flint gravel - - - - -	1	2
Yellow joint clay ferruginous red gravel- - - - -	1	3
No water sample collected. Jan. 20, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 411</u>		
Top of ridge, Mrs. Anna Hoermann tract, north center T. Long survey, 10 $\frac{1}{2}$ miles south of Seguin.		
Sandy materials- - - - -	1	1
Flint gravel-- - - - -	1	2
Red and yellow clay and sand - - - - -	5	7
No water sample collected. Jan. 9, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 417</u>		
Hilltop, Henry Pitts Estate, T. Long survey, 11 miles south of Seguin.		

	Thickness (feet)	Depth (feet)
<u>Well 417--Continued</u>		
Sandy and flint gravel- - - - -		
Red clay - - - - -	2	3
Banded yellow, red, and gray clays - - - - -		
Yellow and white clay- - - -	1	4
Flint clay-- - - - -		5
No water sample collected. Jan. 14, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 419</u>		
Hilltop, F. T. Schraub tract, north corner C. C. Williams survey, 11 $\frac{1}{2}$ miles south of Seguin.		
Sandy materials- - - - -	3	3
Red and yellow clay and sand - - - - -	1	4
Red, yellow, and gray clay and sand - - - - -	2	6
Red and gray sand- - - - -	1	7
Red and white sand - - - - -	3	10
Red and gray sand- - - - -	3	13
Red clay and sand- - - - -	1	14
Red and brown sand and gray sandstone- - - - -	1	15
Yellow clay and sand - - - -	1	16
Yellow sand and soapstone-	1	17
Red sand and clay - - - - -	1	18
Red, yellow, and gray clay-	1	19
Gray clay -- - - - -	1	20
No water sample collected. Jan. 15, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 420</u>		
Hilltop, C. C. Williams survey, 11 $\frac{1}{2}$ miles south of Seguin.		
Sandy materials- - - - -	2	2
Red clay and sand- - - - -	1	3
Red and gray clay- - - - -	2	5
Red clay and sand- - - - -	1	6
Yellow clay and white sand-	1	7
Yellow sand and clay - - - -	1	8
Yellow sand and clay with soapstone- - - - -	1	9
Soft sandstone - - - - -		9
No water sample collected. Jan. 22, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 421</u>		
Hillside, north part H. & T. C. R. R. Co. survey 31, 12 miles south of Seguin.		
Sandy materials- - - - -	4	4
Yellow and red clay and sand - - - - -	2	6
Hard red sandstone - - - - -		6
No water sample collected. Jan. 9, 1936.		

Logs of W. F. A. test wells in Guadalupe County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 422</u>		
Hillside, M. W. Schraub tract, near north corner H. & T. C. R. R. Co. survey 36, 13 miles south of Seguin.		
Sandy materials-	1	1
Red and gray clay-	3	4
Red and gray clay and red gravel - - - - -	1	5
Gray clay, sand and gravel-	1	6
Red and gray clay and sand-	1	7
Yellow clay and sand - - -	1	8
Gray and yellow clay and sand- - - - -	1	9
Soapstone and sand and red gravel - - - - -	1	10
Soapstone, hard red rock, and sandstone- - - - -	3	13
Yellow and gray sand and clay- - - - -	1	14
Yellow and gray sand and soapstone- - - - -	5	19
Gray sand- - - - -	1	20
Yellow sand and soapstone-	1	21
Gray sand- - - - -	1	22
No water sample collected. Jan. 15, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 436</u>		
Creek bottoms, side county road, V. Cortario survey, 11 miles southwest of Seguin.		
Black surface materials-	1	1
Black and yellow clay- - -	1	2
Yellow clay- - - - -	2	4
Yellow clay and gravel - -	4	8
Yellow clay and sand - - -	3	11
Yellow clay and gravel - -	3	14
Gravel - - - - -	1	15
Water level, 14.8 feet below top of ground, 2 hours after hole completed.		
No water sample collected. Sept. 5, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 437</u>		
Rolling, near intersection county road and highway, J. Williams survey, 9 miles southwest of Seguin.		
Yellow clay and gravel - -	4	4
No water sample collected. Sept. 2, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 439</u>		
Hilltop, side county road, P. Bolinger survey, 6 1/2 miles southwest of Seguin.		
Yellow clay- - - - -	2	2
Yellow clay and black sand-	1	3
Yellow sand- - - - -	1	4

	Thickness (feet)	Depth (feet)
<u>Well 439--Continued</u>		
Gray sand- - - - -	1	5
Yellow sand- - - - -	2	7
Yellow sand and clay - - -	1	8
Yellow clay- - - - -	1	9
Rock - - - - -		9
No water sample collected. Sept. 9, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 440</u>		
Side county road between Mrs. H. Boecker and A. Wolfe tracts, J. Baker survey, 5 1/2 miles southwest of Seguin.		
Black surface materials-	2	2
Yellow clay and sand - - -	2	4
Yellow clay- - - - -	1	5
Yellow clay and chalk- - -	3	8
Yellow clay and gray sand-	2	10
Gray sand and small gravel-	4	14
No water sample collected. Sept. 8, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 442</u>		
Rolling, near intersection county road and highway, Wm. Leach survey, 4 1/4 miles west of Seguin.		
Black surface materials-	5	5
Reddish clay and chalk - -	7	12
Gray and reddish clay- - -	13	25
Bluish-gray clay - - - - -	3	28
Gray clay and reddish sand-	2	30
No water sample collected. Oct. 5, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 443</u>		
Rolling, near county road intersection, G. W. Davis survey, 6 1/2 miles west of Seguin.		
Black surface materials-	2	2
Black soil and yellow clay-	1	3
Yellow clay and sand - - -	1	4
Yellow sand- - - - -	1	5
Yellow clay- - - - -	7	12
Gray sand and yellow clay-	5	17
Yellow clay and gray fuller's earth - - - - -	1	18
Gray clay- - - - -	3	21
Gray and yellow clay - - -	1	22
No water sample collected. Sept. 9, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 445</u>		
Rolling, side county road, Jas. M. Campsor survey, 9 1/2 miles west of Seguin.		
Black surface materials-	4	4
Yellow clay and chalk- - -	1	5
Chalk and gravel - - - - -	2	7
No water sample collected. Sept. 2, 1936.		

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

	Thickness (feet)	Depth (feet)
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Well 447

Side county road, center southeast side Jose Flores survey, 12 miles southwest of Seguin.

Black surface materials- -	1	1
Sand and red clay- - - - -	2	3
Yellow clay and sand - - -	11	14
Yellow clay- - - - - - - -	13	32

Water level, 24 feet below top of ground,  $\frac{1}{2}$  hour after hole completed.

Water sample collected. Sept. 5, 1936.

Well 461

Rolling, side county road, south center southeast side E. de los Santos Coy survey, 12 $\frac{1}{2}$  miles west of Seguin.

Yellow clay and sand - - -	3	3
Yellow clay- - - - - - - -	2	5
Yellow clay and chalk- - -	2	7
Yellow clay, chalk and sand - - - - - - - - - -	6	13

Water level, 11.5 feet below top of ground, 2 hours after hole completed.

Water sample collected. Sept. 4, 1936.

Well 464

Hillside, R. Wolfhart tract, H. Thompson survey, 11 miles west of Seguin.

Black surface materials and flint gravel - - - -	5	5
Gray clay and chalk- - - -	4	9

Water level, 5.2 feet below top of ground, 1 $\frac{1}{2}$  hours after hole completed.

No water sample collected. June 12, 1936.

Well 465

Hillside, R. Wolfhart tract, Jno. Thompson survey, 11 $\frac{1}{2}$  miles west of Seguin.

Black surface materials and flint gravel - - - -	4	4
Flint gravel - - - - - - -		$\frac{1}{2}$

No water sample collected. June 12, 1936.

Well 466

Gentle slope, Louie Kurrie Estate, Jno. Thompson survey, 11 $\frac{1}{2}$  miles west of Seguin.

Black surface materials- -	3	3
Gray clay and sand - - - -	2	5
Gray limestone, clay, and flint gravel- - - - - -	6	11

Water level, 3.5 feet below top of ground, 16 hours after hole completed.

Water sample collected. June 10, 1936.

	Thickness (feet)	Depth (feet)
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Well 467

Hilltop, Olga Hakanson tract, Jno. Thompson survey, 11 $\frac{1}{2}$  miles west of Seguin.

Black surface materials- -	5	5
Gray soil- - - - - - - - -	3	8
Yellow clay and limestone-	1	9

Water level, 3.5 feet below top of ground, 10 hours after hole completed.

Water sample collected. June 9, 1936.

Well 468

Cartindale Loan Co. tract, Jno. Thompson survey, 11 $\frac{1}{2}$  miles west of Seguin.

Black surface materials- -	4	4
Gray soil and round gravel-	1	5
Gray and yellow clay and flint gravel with chalk-	17	22

Water level, 3.1 feet below top of ground, 4 hours after hole completed.

Water sample collected. June 8, 1936.

Well 471

Gentle slope, Henry Schultz tract, Jno. Thompson survey, 12 $\frac{1}{2}$  miles west of Seguin.

Black surface materials- -	4	4
Gray clay and chalk- - - -	7	11

Water level, 9 feet below top of ground, 2 hours after hole completed.

Water sample collected. June 11, 1936.

Well 472

Hillside, John Schnable tract, Jno. Thompson survey, 12 miles west of Seguin.

Black surface materials and flint gravel- - - -	5	5
Brown clay and flint gravel	2	7
Rock - - - - - - - - - -		7

No water sample collected. June 8, 1936.

Well 473

Hillside, side county road, S. Williams survey, 12 $\frac{1}{2}$  miles west of Seguin.

Black surface materials and flint gravel - - - -	2	2
Gray soil and limestone- -	3	5
Chalk - - - - - - - - - -	2	7

Water level, 4.2 feet below top of ground, 1 hour after hole completed.

Water sample collected. June 8, 1936.



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

	Thickness (feet)	Depth (feet)
<u>Well 474</u>		
Hillside, August Ebert tract, T. Bressard survey, 12 $\frac{1}{3}$ miles west of Seguin.		
Black surface materials and flint gravel - - - - -	5	5
Gray clay and limestone pebbles- - - - -	2	7
Gray clay and chalk- - - -	5	12
Rock - - - - -		12
Water level, 11.5 feet below top of ground, $\frac{1}{4}$ hour after hole completed.		
Water sample collected. June 10, 1936.		

	Thickness (feet)	Depth (feet)
<u>Well 475</u>		
Hillside, side county road, T. Bressard survey, 13 miles west of Seguin.		
Black surface materials and hard white gravel- -	5	5
Brown clay and chalk with red specks of clay - - -	4	9
Yellow clay and chalk- - -	2	11
Water level, 10.4 feet below top of ground, $\frac{1}{2}$ hour after hole completed.		
Water sample collected. June 11, 1936.		

Partial analyses of water from wells in Guadalupe County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, C. R. Stewart, D. F. Riddell, and Alfred J. Kelly, Chemists, and J. A. Harmsza, Martin Wieland and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well numbers correspond to numbers in table of well records.)

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
1	M. Fleming	17	Sept. 21, 1936	579	-	-	-	134	119	192	-
2	Martindale Loan Co.	18	Sept. 24, 1936	1,786	-	-	-	299	397	680	-
4	A. Schultze	983	do.	9,221	803	427	1,825	122	2,646	3,460	3,764
5	do.	1,000	June 1, 1936	5,947	830	442	509	207	2,444	1,620	3,892
6	M. Randow	18	Sept. 24, 1936	706	-	-	-	220	274	88	-
7	C. Biesle	Spring	Oct. 1, 1936	388	-	-	-	366	26	33	-
8	Banker Life Loan Co.	40	Sept. 10, 1936	353	-	-	-	256	18	75	-
9	E. R. Vought	39	do.	125	44	12	-	79	a/	30	157
10	E. R. Vought	33	do.	178	-	-	-	85	18	53	-
11	O. Eocan	11	do.	255	-	-	-	281	a/	16	-
12	A. Kirchmeyer	32	do.	262	-	-	-	195	20	47	-
14	W. Timmerman	30	do.	414	-	-	-	171	30	148	-
15	E. Bading	34	do.	341	-	-	-	293	24	43	-
17	H. Harborth	20	Sept. 24, 1936	859	197	20	98	281	36	370	575
19	Mrs. H. Meyer	Spring	Oct. 23, 1936	445	-	-	-	159	103	108	-
20	Geronimo Gin Co.	22	June 1, 1936	378	125	11	8	366	a/	54	358
21	Q. Dittmar	31	do.	243	-	-	-	189	18	40	-
22	Otto Borchers	34	Sept. 24, 1936	323	-	-	-	305	7	40	-
23	H. Schriewer	45	do.	145	-	-	-	67	4	54	-
24	E. Dolle	30	Sept. 10, 1936	209	-	-	-	49	22	88	-
25	Alfred Boenig	40	do.	247	-	-	-	214	a/	46	-
27	H. Weinert	40	Oct. 2, 1936	180	-	-	-	85	25	48	-
28	A. W. Caddell	40	Sept. 9, 1936	283	72	10	22	207	24	53	222
29	Seguin Milling Co.	16	Sept. 1, 1936	451	-	-	-	372	52	46	-
30	R. Tschoepe	38	Oct. 2, 1936	657	-	-	-	342	131	122	-
31	Geo. W. Breckenridge	2,348	Feb. 15, 1936	7,362	708	299	1,430	122	2,254	2,600	2,998
32	W. P. A. test well	25	Oct. 5, 1936	625	-	-	-	531	95	35	-
33	A. W. Saegert	40	Sept. 5, 1936	268	-	-	-	281	a/	24	-
34	F. Richard	40	do.	164	24	12	23	110	14	37	107

a/ Sulphate less than 10 parts per million.

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
35	Oscar Alves	35	Sept. 5, 1936	258	-	-	-	146	a/	88	-
36	Mrs. Clara Brewstedt	40	Sept. 10, 1936	308	70	10	28	61	32	138	217
37	J. Vetter	45	Sept. 23, 1936	227	-	-	-	189	21	27	-
38	Mrs. A. Alfenhaf	28	do.	281	-	-	-	281	14	20	-
39	F.H. Westphal	20	Sept. 24, 1936	264	60	14	22	232	28	26	209
40	San Geronimo School	33	do.	150	-	-	-	79	7	48	-
41	W.P.A. test well	23	Sept. 23, 1936	338	-	-	-	159	32	104	-
42	H. Bartlos	36	do.	306	-	-	-	293	a/	42	-
44	Wm. Timbormann	Spring	June 1, 1936	298	114	8	-	281	a/	38	315
46	Aug. Glenwinkle	45	Oct. 1, 1936	1,412	-	-	-	61	178	710	-
47	Mrs. H. Thormoyer	31	do.	279	-	-	-	244	14	38	-
50	Mrs. May Cone	57	Sept. 16, 1936	537	-	-	-	145	145	110	-
52	W.F. Cone	60	do.	532	81	17	95	-	28	22	270
53	Clem Broadnax	50	June 1, 1936	294	-	-	-	177	32	41	-
54	R.E.L. Adams	75	Sept. 16, 1936	254	-	-	-	61	409	1,560	-
56	J.L. Cowley	80	Sept. 21, 1936	3,070	-	-	-	214	103	225	-
57	B.C. Talmadge	20	do.	673	-	-	-	311	52	980	-
59	J.D. Wright	165	Sept. 16, 1936	1,861	-	-	-	122	26	158	-
60	H.F. Allen	62	do.	384	-	-	-	305	44	90	-
61	A.H. Tilley	103	do.	453	-	-	-	98	100	410	-
62	B.L. Echols	50	Sept. 22, 1936	862	-	-	-	311	135	120	289
64	Posley Bell	25	Apr. 17, 1936	636	78	23	127	268	82	76	-
65	Mrs. W.J. Wagoner	27	do.	455	-	-	-	-	852	90	-
66	Charlie Zudler	54	do.	1,348	-	-	-	134	178	58	-
67	Wesley McKinney	57	do.	452	-	-	-	55	25	26	-
68	E.F. Wood	171	do.	121	-	-	-	122	a/	67	-
69	do.	34	do.	205	-	-	-	-	-	-	-
70	- Kerkendall	72	May 1, 1936	2,437	380	165	176	79	1,137	540	1,627
71	Mrs. Johnie Manford	101	do.	739	121	26	107	98	142	295	411
72	Chas. Zedler	-	do.	618	-	-	-	134	142	196	-
73	R.C. Appling	-	do.	243	-	-	-	146	43	40	-
74	do.	-	do.	175	22	7	38	110	a/	54	84
78	Dix & McCain	350	Apr. 2, 1936	616	62	49	86	85	163	214	355
79	do.	350	do.	582	69	36	88	146	143	174	328

a/ Sulphate less than 10 parts per million.

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
81	Chris. Knoblock	205	Apr. 2, 1936	818	101	36	140	61	171	340	403
82	Pat Baker	130	Sept. 21, 1936	435	53	25	74	92	40	198	235
83	Aug. Glenwinkle	165	do.	233	16	12	61	171	16	44	87
85	- Salier	66	Apr. 17, 1936	1,097	-	-	-	165	533	132	-
86	A.H. Wille	-	Apr. 2, 1936	383	-	-	-	189	72	81	-
87	do.	112	do.	262	-	-	-	232	a/	46	-
88	Ferd. Beicher	190	Apr. 15, 1936	787	95	55	78	79	450	70	464
90	J.N. Ranft	54	do.	743	114	23	115	79	202	250	379
92	do.	97	do.	169	-	-	-	134	11	28	-
93	Mrs. K. Klein	120	Apr. 16, 1936	656	-	-	-	85	60	320	-
94	Walker Bros.	73	do.	185	-	-	-	67	21	64	-
95	Jim Seay	43	Apr. 17, 1936	799	-	-	-	171	57	370	-
96	Mrs. Fannie Nixon	47	Apr. 16, 1936	528	-	-	-	232	18	100	-
98	do.	92	do.	741	89	59	72	55	220	47	467
99	Walker Bros.	285	do.	858	111	38	136	171	274	55	433
100	Henry Ranft	21	Apr. 15, 1936	372	94	36	-	159	60	104	382
101	Fred Warren	40	do.	1,264	-	-	-	317	433	250	-
102	James Applein	47	Mar. 17, 1936	222	-	-	-	159	24	37	-
103	John Holmes	41	do.	202	41	12	15	110	44	36	153
104	John Sanderson	39	do.	188	32	14	16	110	50	22	139
105	--	52	do.	559	74	20	107	73	40	282	267
106	John T. Howell	40	do.	173	-	-	-	134	26	17	-
107	F.V. Roberts	70	Sept. 23, 1936	463	-	-	-	201	60	136	-
108	M.T. Howell	138	Apr. 3, 1936	374	22	23	87	220	82	52	149
109	Tom Howell	125	do.	894	-	-	-	220	334	154	-
110	Mrs. A.A. Anderson	46	do.	1,439	-	-	-	73	515	415	-
111	do.	93	do.	259	-	-	-	189	14	54	-
112	L.G. Denman Est.	46	do.	484	95	18	73	512	11	27	310
113	Walters-Nixon Ind. School District	130	do.	445	50	23	79	92	92	156	219
114	A.E. Dowdy	-	Apr. 2, 1936	263	-	-	-	134	a/	98	-
115	Mrs. Kate Lay	81	June 17, 1936	581	121	22	104	378	130	18	244
117	Fritz Johns	53	May 18, 1936	405	-	-	-	323	43	51	-
118	Robert Johns	74	do.	305	-	-	-	305	8	28	-

a/ Sulphate less than 10 parts per million.

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
119	W. Wiedner	70	May 16, 1936	409	-	-	-	287	34	80	-
120	Antone Mandel	65	May 15, 1936	433	-	-	-	98	68	164	-
121	Fritz Johns	-	do.	242	-	-	-	232	18	17	-
122	Gustav Beicker	29	Apr. 1, 1936	613	77	17	129	104	64	275	260
123	do.	52	do.	1,307	238	17	219	61	103	700	666
124	Mrs. Augusta Giesick	27	May 16, 1936	1,185	-	-	-	268	85	540	-
125	do.	87	do.	404	43	14	99	305	22	76	166
126	F.M. Mathies	96	Mar. 18, 1936	1,228	644	42	-	43	151	370	1,781
127	do.	78	do.	318	27	22	55	140	111	34	152
128	Martindale Loan Co.	34	do.	411	134	23	-	61	46	148	504
129	do.	30	do.	466	131	14	69	85	74	186	343
130	S. Leroy Denman	36	Apr. 1, 1936	474	-	-	-	92	90	174	-
131	do.	-	do.	268	32	-	43	159	63	37	155
132	do.	18	do.	673	32	-	124	159	181	180	303
133	S. Leroy Denman	24	do.	211	21	-	33	128	43	33	124
134	do.	30	do.	602	-	-	-	-	266	144	-
135	do.	42	do.	368	25	17	74	6	177	72	150
136	Martindale Loan Co.	37	Mar. 18, 1936	204	-	-	-	134	8	53	-
138	do.	27	do.	1,809	342	78	185	73	338	830	1,178
139	Mrs. Ottlie Johns	120	do.	1,523	198	65	253	61	317	660	760
141	do.	26	do.	6,138	560	211	1,312	67	1,642	2,380	2,265
146	Otto C. Johns	31	May 16, 1936	789	-	-	-	354	213	126	-
147	Ottlie Johns	29	May 18, 1936	1,013	250	51	31	555	320	88	837
148	Dues Johns	76	May 16, 1936	439	-	-	-	366	25	66	-
149	Herman Johns	54	do.	882	-	-	-	317	298	128	-
150	Ottlie Johns	53	May 18, 1936	497	-	-	-	79	58	224	-
151	do.	48	do.	394	112	12	22	268	24	92	327
152	O.H. Johns	56	May 16, 1936	1,247	-	-	-	354	80	540	-
153	Ed. Grimm	57	May 18, 1936	903	-	-	-	183	135	360	-
155	Ada Williams	29	May 16, 1936	2,460	240	136	518	647	8	1,240	1,158
156	do.	39	May 14, 1936	1,386	-	-	-	189	52	740	-
157	Robert Luman	52	May 18, 1936	6,506	784	269	1,062	220	2,283	2,000	3,066
158	Adolph Grimm	47	May 14, 1936	6,172	-	-	-	159	1,328	2,660	-
159	Adelphand & Erwin Grimm	74	May 18, 1936	308	65	9	35	195	72	31	201

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

Results are in parts per million.

Well No.	Owner	Depth to well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
160	Ada Williams	15	May 15, 1936	742	112	31	89	98	350	112	409
161	P.H. Knodel	42	May 14, 1936	397	63	17	55	55	91	144	225
162	Dr. N.A. Poth	54	Apr. 18, 1936	1,388	-	-	-	189	341	480	-
163	Rachel Turner Est.	12	May 14, 1936	207	-	-	-	232	a/	11	-
164	Joe Brooks	44	do.	153	8	4	43	61	39	29	38
165	Alfred Eichenrodt Est.	34	Apr. 18, 1936	164	-	-	-	73	50	21	-
167	Joe Brooks	20	May 14, 1936	163	-	-	-	189	a/	5	-
168	Will Blanks	52	May 15, 1936	311	-	-	-	79	34	126	-
169	Preston Duncan	26	do.	128	-	-	-	116	18	5	-
170	do.	136	do.	209	-	-	-	146	40	21	-
176	W.P.A. test well	8	Apr. 11, 1936	72	-	-	-	24	22	13	-
180	do.	5	Apr. 6, 1936	87	-	-	-	61	16	9	-
181	do.	41	Apr. 9, 1936	565	26	22	63	-	420	30	154
183	do.	22	Apr. 10, 1936	152	-	-	-	24	18	68	-
188	do.	12	Apr. 22, 1936	33	-	-	-	6	12	7	-
191	Mrs. Minna Buchring	49	Apr. 18, 1936	652	-	-	-	49	206	205	-
192	A. Fortune	35	do.	2,104	-	-	-	372	497	700	-
193	do.	83	do.	1,348	178	68	195	268	440	335	727
194	Edward Moss	60	do.	2,510	-	-	-	348	881	625	-
196	W.P.A. test well	10	Mar. 27, 1936	705	-	-	-	79	147	276	-
198	J. Caddell	45	Sept. 23, 1936	732	-	-	-	421	28	222	-
199	Joe Wolf	90	do.	889	173	17	128	317	181	234	500
200	--	60	do.	868	-	-	-	134	237	270	-
201	F.F. Klein	53	do.	674	-	-	-	372	143	106	-
202	H.W. Dolle	65	do.	626	90	36	86	153	119	220	372
203	H. Krezdorn	70	do.	1,918	-	-	-	220	719	460	-
205	County Poor Farm	30	Oct. 5, 1936	397	109	9	32	317	22	69	311
206	A. Just	31	do.	559	-	-	-	134	36	255	-
207	Mrs. J.A. Schriever	20	do.	256	-	-	-	171	36	41	-
208	Mrs. Bessie Leber	31	Sept. 22, 1936	399	-	-	-	256	30	94	-
209	W.P.A. test well	9	June 15, 1936	371	-	-	-	293	20	66	-
209a	Mrs. A.D. Colville	do.	do.	417	105	17	32	299	28	88	330
	Spring										
211	City of Seguin	-	Mar. 3, 1936	166	37	20	28	18	50	22	173

a/ Sulphate less than 10 parts per million.

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
212	City of Seguin	-	Mar. 3, 1936	178	43	20	-	182	a/	22	188
214	E. Boecker	63	Sept. 23, 1936	86	-	-	-	85	a/	10	-
215	Mrs. Max Blume	40	do.	160	-	-	-	165	a/	16	-
216	P.K. DeLaney	68	Mar. 31, 1936	179	30	12	22	122	18	37	122
217	W.P.A. test well	11	Mar. 27, 1936	5,635	-	-	-	61	1,073	2,600	-
221	John Moss	149	do.	904	80	56	147	104	378	192	430
222	Mrs. G.S. Fleming	77	do.	390	-	-	-	98	80	126	-
223	Mrs. Clifton Fleming	61	do.	778	183	24	67	49	40	440	555
224	Frank Zoboroski	60	do.	2,465	-	-	-	49	266	1,310	-
225	F. Atzger	46	Mar. 20, 1936	2,582	394	141	236	67	1,323	455	1,562
226	Frank Zoboroski	42	Mar. 22, 1936	374	-	-	-	153	127	44	-
227	John McColough	48	Mar. 20, 1936	1,772	334	113	135	159	282	830	1,300
228	do.	28	do.	206	13	15	52	220	a/	20	95
229	F. Moss	60	do.	821	-	-	-	12	302	290	-
232	Max Zoboroski	115	Mar. 25, 1936	191	20	11	36	98	36	40	-
235	Walter Grimm	130	Mar. 19, 1936	396	-	-	-	134	107	86	-
237	Albert Coleman	87	do.	1,653	195	136	162	61	675	455	1,044
238	W.P.A. test well	5	do.	63	32	10	-	18	a/	12	121
239	Will Banks	-	Mar. 25, 1936	213	-	-	-	159	8	46	-
244	Otto Benzinger	92	Mar. 20, 1936	761	126	6	142	98	139	300	339
247	Alb. Krams	50	Oct. 1, 1936	182	-	-	-	195	a/	14	-
248	Henry Brodt	93	Mar. 26, 1936	517	66	36	70	98	95	202	312
249	Fritz Heidke Est.	-	do.	636	-	-	-	73	103	275	-
251	Mrs. Angelina Nitsch	-	do.	628	99	4	73	85	236	174	403
252	August Brodt	130	do.	477	-	-	-	92	107	160	-
253	Herman Kuhn	-	do.	776	-	-	-	67	469	36	-
260	W.P.A. test well	7	Apr. 28, 1936	130	-	-	-	18	70	10	-
261	Mrs. Wm. Hartwig	Spring	Mar. 30, 1936	35	6	6	-	-	16	7	29
262	W.P.A. test well	5	do.	55	18	13	-	12	8	10	98
264	do.	5	Mar. 9, 1936	143	-	-	-	153	4	8	-
265	do.	5	Apr. 11, 1936	54	4	11	-	24	20	7	56
267	J.D. Dibrell	150	Mar. 9, 1936	109	8	8	25	73	a/	32	51
268	W.P.A. test well	5	Mar. 11, 1936	23	-	-	-	12	a/	8	-
269	do.	4	Mar. 13, 1936	38	10	-	4	12	7	11	24
270	do.	5	do.	77	5	14	-	24	32	10	68

a/ Sulphate less than 10 parts per million.

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

Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
272	W.P.A. test well	13	Mar. 10, 1936	40	16	9	-	-	7	8	76
275	do.	9	Mar. 12, 1936	40	16	9	-	-	a/	15	76
276	Walter Davenport	52	Mar. 10, 1936	187	26	20	10	61	64	37	147
277	W. Batey Est. Spring	Mar. 13, 1936	294	6	3	98	31	72	72	100	26
278	W.P.A. test well	5	Apr. 4, 1936	251	-	-	-	12	95	68	-
279	J.H. Batey	57	Mar. 11, 1936	587	-	-	-	98	178	165	-
280	A.T. Batey Est.	45	do.	588	86	18	107	317	131	90	292
282	do.	100	do.	352	63	23	21	61	142	73	254
284	Robt. Russell	56	Mar. 12, 1936	3,229	334	201	437	98	1,552	650	1,664
286	J.C. Lackey	12	Mar. 10, 1936	290	30	18	54	73	11	141	152
288	Mrs. N.C. Lackey	50	Mar. 12, 1936	2,982	-	-	-	67	675	1,260	-
289	Stephen Cowey	55	do.	1,465	138	93	211	98	728	247	728
290	do.	21	do.	159	-	-	-	24	78	16	-
291	W.P.A. test well	44	Apr. 15, 1936	569	29	61	51	-	333	90	523
293	Lloyd Hurt	65	Mar. 21, 1936	418	-	-	-	110	117	104	-
296	H.S. Schmitzer	89	Feb. 17, 1936	194	10	5	53	55	59	3	46
304	W.P.A. test well	8	Feb. 24, 1936	173	2	3	52	12	99	11	13
305	A.W. Batey Est. Spring	do.	do.	72	6	3	20	73	a/	7	36
306	W.P.A. test well	7	Mar. 7, 1936	26	2	5	1	12	a/	12	26
307	do.	12	Apr. 27, 1936	62	4	9	6	37	16	9	46
309	do.	4	Mar. 10, 1936	56	-	-	-	43	4	10	-
310	C.E. Schmidt	46	Mar. 8, 1936	174	26	8	48	165	a/	10	96
311	W.P.A. test well	3	Mar. 7, 1936	81	-	18	2	37	28	15	76
311a	do.	5	Mar. 8, 1936	24	4	7	-	-	a/	13	39
318	H.H. Weinert	165	Jan. 31, 1936	95	-	3	35	61	a/	27	11
321	W.P.A. test well	17	Feb. 28, 1936	96	6	5	20	18	37	19	36
322	do.	9	Mar. 24, 1936	63	36	9	-	12	a/	12	126
325	do.	4	do.	228	14	112	18	104	11	18	82
326	Dr. A.H. Neighbors	80	do.	610	-	-	-	171	129	184	-
327	Robt. Ball	44	do.	1,702	263	147	118	61	394	750	1,260
328	Callie A. Wilson	166	do.	169	-	-	-	98	22	37	-
329	Mrs. Emma Dibrell	-	Feb. 12, 1936	1,734	264	117	171	110	389	735	1,144
330	W.P.A. test well	9	Feb. 10, 1936	465	12	5	133	24	292	11	51
337	H.H. Weinert	-	Feb. 13, 1936	117	14	5	25	67	a/	40	56

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

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
345	W.H. Lynn	14	Feb.21,1936	179	26	5	40	183	a/	17	87
348	E.A. Vaughn	128	Jan.24,1936	98	2	-	38	43	a/	37	5
349	G.C. Dietzel	153	Feb.20,1936	199	10	5	58	24	22	92	46
352	H.H. Weinert	165	Feb. 4,1936	66	8	-	18	18	a/	31	20
369	W.J. Blanks	Spring	Mar. 3,1936	59	12	3	8	61	a/	6	41
371	Harry Snyder	75	Oct. 1,1936	131	7	9	32	104	14	18	56
372	Ed. Echols Sr.	31	do.	290	-	-	-	220	28	45	-
373	M. Dribrell	56	do.	443	-	-	-	49	121	148	-
374	A. Springs	100	Oct. 9,1936	1,203	138	53	223	354	295	320	562
375	H. I. Gumbert	75	do.	337	-	-	-	201	38	72	-
376	E. Schultz	120	do.	1,187	176	53	166	85	295	455	657
377	F. Acker	95	do.	1,401	166	65	236	305	429	355	685
378	P. Woelke	123	Oct. 8,1936	2,571	137	137	365	12	986	770	1,329
380	Hiram Jackson	81	Feb.17,1936	3,222	511	147	378	159	747	1,330	1,958
381	Jerry McIntyre	44	do.	3,183	107	107	600	49	414	1,980	1,903
382	Gene Wilcox	42	do.	556	107	20	107	256	105	124	382
388	F.W. Schraub	34	May 11,1936	1,077	170	57	119	281	398	195	660
389	do.	92	do.	3,078	-	-	-	110	995	1,010	-
392	Anna Hoermann	76	Jan. 9,1936	-	-	-	64	-	493	15	21
393	P.F.A. test well	4	May 13,1936	54	-	-	-	12	20	10	-
397	Hiram Jackson	14	Feb.15,1936	48	-	3	16	43	a/	8	11
406	W.F.A. test well	117	May 26,1936	330	-	-	-	140	8	130	-
412	Pelton Pitts	45	Feb.29,1936	2,360	461	133	127	268	605	800	1,698
413	Levy Dickerson	86	do.	1,417	234	55	177	18	372	570	817
414	A. Blach	46	do.	1,166	27	20	394	342	144	410	148
416	H. Fater	72	Jan.20,1936	162	36	8	18	171	a/	15	121
418	F.W. Schraub	37	Jan.14,1936	-	-	-	64	-	3	120	97
424	Power Smith	53	Jan.17,1936	391	24	21	-	-	a/	224	145
425	Ed. Lambrecht	Spring	do.	1,681	33	31	577	214	105	830	209
426	B. Pernitz	145	Sept. 8,1936	547	87	37	62	268	111	118	368
427	A. Achterberg	46	do.	586	-	-	-	366	92	100	-
428	C. Walker	39	do.	2,494	473	130	221	683	624	700	1,715
429	W. Sorell	75	Sept. 2,1936	372	-	-	-	305	24	56	-
430	E. Hartfield	23	do.	733	-	-	-	378	262	33	-
431	Ed. Felix	115	do.	825	-	-	-	256	97	305	-

a/ Sulphate less than 10 parts per million.

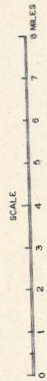
Partial analyses of water from wells in Guadalupe County--Continued  
Results are in parts per million.

Well No.	Owner	Depth of well (feet)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Total hardness as CaCO <sub>3</sub> (calculated)
432	P. Pape	64	Sept. 8, 1936	395	-	-	-	207	40	108	-
433	H.G. Muelder	24	June 2, 1936	283	-	-	-	244	14	40	-
434	Ed. Tewes	70	Sept. 2, 1936	796	76	32	185	476	131	138	320
438	P. Moltz	135	Sept. 8, 1936	1,874	291	84	247	464	584	440	1,072
441	Aug. Becker	14	Sept. 9, 1936	366	-	-	-	397	a/	26	-
444	H.J. Rabe Sr.	1,500	do.	11,251	1,251	410	2,085	137	3,398	4,040	4,815
446	Richard Jung	26	Sept. 5, 1936	4,444	-	-	-	262	370	2,370	-
447	W.P.A. test well	32	do.	221	-	-	-	98	28	65	-
448	Louis H. Zuehl	36	June 2, 1936	829	112	58	109	433	213	124	515
449	Louis Loeb	40	Sept. 5, 1936	292	-	-	-	73	40	112	-
450	A.F. Brietzke	29	do.	728	-	-	-	98	115	310	-
451	E. Stolte	17	do.	342	-	-	-	134	40	112	-
452	J. Pape Wang	316	Oct. 2, 1936	6,115	527	238	1,168	281	2,984	1,060	2,296
453	Alfred Schaub	28	Sept. 5, 1936	1,422	145	46	314	73	171	710	554
454	Mrs. Willie Doern	45	do.	232	-	-	-	146	26	48	-
455	Citola Brothers Gin	440	do.	1,193	95	70	-	116	354	375	523
456	Adolph Riley	100	Sept. 4, 1936	2,158	-	-	-	232	374	920	-
457	Henry Riley	160	Sept. 2, 1936	2,403	518	100	52	67	1,602	98	1,748
458	W.J. Schertz	60	Feb. 1, 1936	196	40	15	14	86	30	64	162
459	August Habermann	45	Sept. 4, 1936	419	80	20	30	61	179	80	283
461	W.P.A. test well	13	do.	458	41	15	112	171	60	146	165
462	O. Voges	326	Sept. 5, 1936	2,916	231	154	569	85	890	1,030	1,210
463	E.A. Huebinger	22	do.	387	-	-	-	214	70	72	-
466	W.P.A. test well	11	June 10, 1936	2,014	-	-	-	220	688	550	-
467	do.	8	June 9, 1936	5,598	635	84	1,230	67	1,486	2,130	1,932
468	do.	22	June 8, 1936	2,619	-	-	-	220	894	750	-
469	City of Marion	-	June 2, 1936	354	-	-	-	73	99	98	-
471	W.P.A. test well	11	June 11, 1936	10,956	1,311	293	2,253	61	1,709	5,360	4,481
473	do.	7	June 8, 1936	365	-	-	-	250	16	88	-
474	do.	12	June 10, 1936	1,008	-	-	-	415	80	355	-
475	do.	11	June 11, 1936	1,423	-	-	-	214	318	510	-

a/ Sulphate less than 10 parts per million.



# MAP OF GUADALUPE 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
  - ◊ UNUSED WELL
  - ◊ TEST WELL DRILLED BY W.P.A. LABOR
  - ⊕ WELL DRILLED FOR OIL OR GAS
  - SPRING
  - FLOWING WELL
  - IMPROVED ROAD

FIELD WORK BY  
E.S. MICHAL  
PROJECT SUPERINTENDENTS  
W.P.A. PROJECT 2084

BASE COMPILED FROM  
LAND OWNERSHIP MAP  
AND FIELD NOTES

TEXAS BOARD OF  
WATER ENGINEERS  
ASST. DISTRICT ENGINEER  
U.S. GEOLOGICAL SURVEY

