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COMAL COUNTY, TEXAS

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

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WORKS PROGRESS ADMINISTRATION

GROUND WATER SURVEY

PROJECT 2084

E. J. Michal

Project Superintendent

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

WORKS PROGRESS ADMINISTRATION

PROJECT 6507-5112

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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  
August 15, 1937

COMAL 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 and the quantity and quality of water they yield, and 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 Comal County was started on October 9, 1936, and completed Jan. 30, 1937. This work was done as Project 2084 of District 10 of the Works Progress Administration, San Antonio, Texas. E. J. Michal, an engineer, was project superintendent. Mr. Michal should be given credit for his great interest in the work and for the many extra hours he 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. Location of all wells and springs listed are shown on the folded map in the back of the release.

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

Records of wells and springs in Comal County, Texas  
(All wells are bored or drilled unless otherwise noted in "Remarks" column.)

No.	Distance from Hancock	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
1	9 miles northwest	John Hargrove	C.L.Meserole	--	-- Spring	--	--	--
2	8½ miles northwest	do.	do.	--	Old	217	6	0
3	7½ miles northwest	do.	do.	--	--	220	6	--
4	5½ miles northwest	T.W.N.G.R.R.Co. 858	E. Kaderli	E. Kaderli	1914	250	6	0.7
5	5 miles northwest	G.W.T.& P.R.R. Co. 897	Emil Doell	Emil Doell	1895	300	6	--
6	do.	Jos. F. Johnson	H. Fisher	H. Fisher	Old	327	6	--
7	5 miles north	James Pasley	R. O. Fisher	--	-- Spring	--	--	--
8	5½ miles north	do.	W.O.Fischer	W.O.Fischer	1922	218	6	0
9	5 miles north	Wiley Hughes	H.Pantermuehl	H.J.Hass	Old	275	6	0.6
c/10	4½ miles north	F. Weinstrom	Paul Schlemmeus	--	Old	253	6	--
e/11	4 miles north	Wm. Carper	Emil Westfer	--	Old	100	6	--
12	do.	do.	Eugene E. Scheel	--	Old	220	6	0.9
13	4 miles northwest	M.W.Potter	Otto Truer	Otto Truer	Old	350	6	0
14	3½ miles northwest	do.	do.	--	-- Spring	--	--	--
15	3 miles northwest	do.	Mrs. D.Hall	--	-- do.	--	--	--
16	2½ miles northwest	do.	C,D,Hall	--	1900	240	6	0.8
17	2½ miles north	G.W.T.& P.R.R. Co. 899	F.J.Peters	--	Old	500	6	1
18	2½ miles northeast	Chas. Menzenberger 124	Theo.Myers	--	Old	400	6	--
19	3 miles northeast	M. Ampora	J.C.Talley	--	1928	325	6	0.8
20	6 miles east	C. Rooney	Mrs.Jennie B. Hickman Bell	--	Old	80	6	0.4
21	2½ miles east	Maria Ampora	Chas.Pantermuehl	--	-- Spring	--	--	--
22	do.	do.	do.	--	Old	110	6	2.1
23	1 mile east	John Linde 33	Max Linnartz	--	1902	228	6	0.6

a/ Measuring point was usually top of casing, top of pump base or top of well curb.  
b/ A, air-lift; B, bucket; C, cylinder; Cf, centrifugal; G, gasoline engine; H, hand; P, public supply; W, windmill; number indicates horsepower.

Records obtained by Emil J. Michal, Project Superintendent

(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>	Remarks
	Depth below measuring point (feet)	Date of measurement			
1	Flows	Nov. 13, 1936	C, W	D, S	Estimated flow, 8 gallons a minute from 1 opening in limestone.
2	155.7	do.	C, W	S	Concrete curb; 10 feet steel casing at top. Well measured while pumping.
3	200	<u>d/</u>	C, W	D, S	10 feet steel casing at top. Reported never fails in drought.
4	36.8	Nov. 13, 1936	C, W	D, S	Concrete curb.
5	160	<u>d/</u>	C, W	D, S	10 feet steel casing at top. Reported never fails in drought.
6	122.8	Nov. 4, 1936	C, G, 3	D, S	Measuring point 0.7 below ground level; 20 feet steel casing at top. Water reported from sand, 320-327 feet, and from sandstone at 250 feet. Drilled in 1908, 250-327 feet to increase supply. Reported never fails in drought.
7	Flows	do.	C, W	D, S	9 feet rock casing at top. Reported <u>drought.</u> water level drops to 4 feet below ground level in drought. Estimated flow, 60 gallons a minute from 1 opening in limestone.
8	175	Dec. 31, 1936	C, G, 1 1/2	D, S	15 feet steel casing at top. Reported never fails in drought.
9	156.2	Nov. 4, 1936	C, W	D, S	On Comal-Hays County line. Reported never fails in drought.
10	85	<u>d/</u>	C, W	D, S	Reported never fails in drought.
11	16	<u>d/</u>	C, W	D, S	Do.
12	48	Dec. 3, 1936	C, W	D, S	Wood block curb; 30 feet steel casing at top. Reported never fails in drought. Water reported from sandstone, 190-210 feet.
13	144.1	Dec. 4, 1936	C, W	D, S	Reported never fails in drought. <u>190-210 feet.</u>
14	Flows	Dec. 31, 1936	None	D	Estimated flow, 75 gallons a minute from 3 openings in limestone. Reported never fails in drought.
15	Flows	Nov. 4, 1936	None	S	Estimated flow, 75 gallons a minute from 3 openings in limestone. Reported springs flow about 6 months a year.
16	45.7	do.	C, W	D, S	22 feet steel casing at top. Water reported from sand at 240 feet, from sandstone at 80 feet. Reported never fails in drought.
17	140.4	Dec. 31, 1936	C, W	D, S	Steel casing. Reported never fails <u>fails in drought.</u> in drought.
18	345	<u>d/</u>	C, W	D, S	Reported never fails in drought.
19	171.3	Dec. 8, 1936	C, W	D, S	Steel casing. Reported never fails in drought. Well measured while pumping.
20	6.4	<u>d/</u>	C, W	D, S	Reported never fails in drought.
21	Flows	Dec. 31, 1936	None	S	Estimated flow, 100 gallons a minute from 5 openings in limestone, only one of which is reported to flow the year around.
22	13.4	do.	C, W	D, S	Steel casing. Reported never fails <u>year around.</u> in drought.
23	128.9	Nov. 3, 1936	C, W	D, S	Do.

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

d/ Water level reported.

e/ No water sample collected for analysis.

Records of wells and springs in Comal County--Continued

No.	Distance from Hancock	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
24	In Hancock	John O'Daniel	Frank Guenther	--	1915	169	6	0.8
25	5 miles west	Julius Bremer 651	George T. Spears	--	Old	300	6	0
e/26	10 miles west	A.Scott 24	Fred and Richard Schaeferkoeter	Wm. Naeug- erbauer	1906	125	6	0.5
27	do.	F.Schaeferkoeter	do.	--	--	Spring	--	--
28	11 miles west	T.M.Fowler 27	Bert Specht	--	--	do.	--	--
e/29	8 $\frac{1}{2}$ miles west	H. Raisner 53	Fr. Porter	Otto Vogel & Bob Paige	1890	226	6	1.1
30	8 miles west	C.Hendenberg 62	Mrs. P. G. Remmler	--	1880	184	6	1.4
31	7 $\frac{1}{2}$ miles west	G. Long 345 $\frac{1}{2}$	J.K.Barotta	--	Old	280	6	0.7
32	6 $\frac{1}{2}$ miles west	S.Folley 340	Mrs. J. W. Heard	--	Old	100	6	--
33	6 miles west	D.Louders 345	Claude Heard	Tom Adare	--	120	--	0.6
34	5 $\frac{1}{2}$ miles west	do.	Ed.Kaderli	Jessie Page	1903	112	6	0.1
35	4 $\frac{1}{2}$ miles west	- Clemens	A.H.Flugrath	--	--	Spring	--	--
e/36	4 miles southwest	Isaac H. Turner 342	M. Engle	--	Old	--	--	1.3
37	7 miles southwest	Robt.Kelly 391	W.A.Ellis	--	Old	240	6	--
38	do.	do.	do.	--	Old	20	36	3
39	6 $\frac{1}{2}$ miles southwest	J.R.Hermann 558	do.	--	Old	50	24	0.3
40	4 $\frac{1}{2}$ miles southwest	Chas.Schuchaal 561	Albert Pape	--	1906	260	6	1
41	1 $\frac{1}{2}$ miles south	A.C.Horton 29	W.H.Haas	--	1902	175	6	0.4
42	2 $\frac{1}{2}$ miles southeast	Maria Ampora 3	Henry Pantermuehl	--	Old	--	6	0.5
43	3 $\frac{1}{2}$ miles southeast	do.	Theo.Kraft	--	1896	428	6	0.6
44	6 miles east	Wm.C.Gould 106	Eugene Grein	--	Old	250	6	--
45	5 $\frac{1}{2}$ miles southeast	H.A.Reed 16	Walter Kaderli	--	Old	170	6	0.4
46	5 miles south	Hy.Weichold 728	M.Leaghting	--	--	Spring	--	--
47	7 miles south	J. Preusser 671	--	--	--	do.	--	--

## Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment			
24	88	Nov. 4, 1936	C, V, & G, -	D, S	20 feet steel casing top. Water from sandstone at 85 feet and yellow sand, 168-169 feet. Reported never fails in drought.
25	--	--	C, W	D, S	Steel casing.
26	114	Dec. 10, 1936	C, W	D, S	Wood block curb; 20 feet steel casing at top. Well measured while pumping. Reported dry, pumping 2½ gallons a minute for 1 hour; 20 minutes required for water level to return to normal.
27	Flows	do.	None	D, S	Concrete basin, 4 x 2 x 4 feet. Estimated flow, 120 gallons a minute from 3 openings in limestone.
28	do.	do.	None.	S, I	Estimated flow, 300 gallons a minute from several openings in limestone. Irrigated 1½ acres.
29	151.9	Dec. 9, 1936	None.	N	Reported windmill formerly pumped well dry in ½ hour. Water level returned to normal in 3 hours. Water re-
30	100.8	do.	C, W	D, S	10 feet steel cas- ing at top. Measured while pumping. Reported former- ly pumped dry with gasoline engine in 2½ hours at 10 gallons a minute. Water level returned to normal in ½ hour. Reported never fails in drought.
31	198.2	do.	C, W, & G, 2	D, S	2 feet steel casing at top. Measured while pumping. Reported drawdown 1.1 feet pumping 3 gallons a minute
32	--	--	C, W	D, S	Reported never fails in drought. for ¼ hour.
33	64.7	Dec. 9, 1936	C, W	D, S	No casing. Reported never fails in drought.
34	55.5	do.	C, W	D, S	40 feet galvanized casing at top. Reported never fails in drought.
35	Flows	Nov. 13, 1936	None	D, S	Estimated flow 1240 gallons a minute in summer and 1650 gallons a minute in winter from 1 large opening
36	42.2	do.	C, H	N	Rock curb. in limestone.
37	190	d/Sept. 1936	C, W & G, 1½	D, S	10 feet steel casing at top.
38	7.8	Dec. 15, 1936	None	N	Dug well. Rock curb. Reported no failure since 1931. Previous history not available.
39	2.4	do.	B, H	D, S	Dug well. Rock curb. Reported never fails in drought.
40	79.7	Nov. 13, 1936	C, W	D, S	Steel casing.
41	41.4	Dec. 31, 1936	C, W	D, S	8 feet steel casing at top.
42	32.8	Nov. 4, 1936	C, W	S	Measured drawdown 10.9 feet pumping 1 gallon a minute for 1/6 hour. Steel casing. Reported never fails in
43	39.4	Nov. 3, 1936	C, 7	D, S	2 feet steel casing at top. Water reported drought. from sandstone at 80 feet and white sand, 420-428 feet.
44	--	--	C, W	D, S	Steel casing. Reported never fails in drought.
45	67.9	Nov. 3, 1936	C, W, & G, 5	D, S	Steel casing. Reported never fails in drought.
46	Flows	Nov. 5, 1936	None	S	Estimated flow 2 gallons a minute from 1 or 2 openings in limestone.
47	do.	do.	None	S	Concrete basin. Located near top of hill.

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

No.	Distance from Hancock	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
48	5 miles southwest	Sam Nelson 331	H.W.Kraft Estate	--	Old	69	--	1.7
49	do.	do.	do.	--	-- Spring		--	--
No.	Distance from f/Bulverde	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
101	13 $\frac{1}{2}$ miles north	T.M.Fowler 27	Bert Specht	--	1881	212	6	0.7
102	12 miles north	Chas. Stroud 26	Ed. Cass	--	Old	140	6	0.5
103	11 miles north	W.C.Howard 165	Arno Knibbe	--	1885	124	6	--
104	do.	Amos Smith 103	G.W.Lyles	--	-- Spring		--	--
105	do.	A. Crier 11	Erie Specht	--	1926	75	6	1.2
106	10 $\frac{1}{2}$ miles north	do.	do.	--	--	250	6	0.5
107	10 miles north	E.Howard 19	Wm. Neugebauer	Monken & Neugenbauer	1886	163	6	0.4
108	10 $\frac{1}{2}$ miles north	do.	Arno Knibbe	--	1900	225	6	1.1
109	do.	J.Christian 22	D.L.Knibbe	--	Old	120	6	2.2
110	do.	John Angel 21	do.	--	Old	280	6	0.5
111	do.	H.G.Henderson 348	Chas. Elbel	--	Old	100	6	1.2
e/112	9 miles north	J.Angel 21	Alfred Cass	--	Old	78	6	--
113	10 miles north	do.	do.	--	1918	175	--	0
114	do.	Ed. Howard 19	Harry Knibbe	--	-- Spring		--	--
115	9 miles north	A.H.Jones 89	William Specht	--	--	250	6	0.6
116	8 $\frac{1}{2}$ miles north	J. Henderson 46	Ed.Bartels	--	1886	80	6	0.8
117	8 $\frac{1}{2}$ miles northeast	Elias Flint 73	Alfred Beierle	--	1928	157	6	0
118	9 miles northeast	A.H.Jones 78	Henry Jonas Estate	--	1901	108	6	0.6
119	8 $\frac{1}{2}$ miles northeast	M. morena 77	John Stricker	--	Old	250	6	0.2
120	7 $\frac{1}{2}$ miles north	Wm.Strawn 74	S.L.Gill	Bob Johnson	1935	280	6	0.8
121	7 miles north	E. Flint 76	Wm. Gast	--	Old	115	6	0.6

f/ Bulverde is a small settlement, variously known as Bartel's or Vogue's and located about 1 $\frac{1}{2}$  miles north of a settlement in Bexar County that is also known as Bulverde.

Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
48	57.5	Nov. 13, 1936	C,W	D,S	Reported never fails in drought.
49	Flows	Nov. 16, 1936	None	S	
No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
101	--	--	C,W	D,S	20 feet steel casing at top. Water level below 141 feet.
102	50.8	Dec. 9, 1936	C,W	D,S	Steel casing.
103	43	Dec. 10, 1936	C,W	D,S	
104	Flows	Nov. 20, 1936	None	D,S	Estimated flow, 700 gallons a minute from cavity in limestone.
105	64.7	do.	C,W	D,S	Reported never fails in drought.
106	178	do.	C,W	D,S	
107	45.8	do.	C,W	D,S	Water reported from blue clay, 69-71 feet.
108	112.6	Dec. 10, 1936	C,W	N	
109	48.4	do.	C,W	D,S	Measured while pumping. Reported never fails in drought.
110	113.8	do.	C,W	S	
111	61.3	Dec. 9, 1936	C,W	D,S	Steel casing. Reported never fails in drought. Located in river bottoms.
112	28	<u>d/</u>	C,W	D,S	
113	58	Nov. 20, 1936	C,W	D,S	Galvanized curb.
114	Flows	Nov. 20, 1936	--	D,S	Estimated flow 35 gallons a minute from 1 opening in limestone. Hydraulic ram supplies school and community. Reported depth formerly 70 feet. Supply failed. Drill-
115	60.6	do.	C,W	D,S	ca 70-250 feet. 6-inch steel casing, top to bottom. Water reported from sandstone, 240-245 feet.
116	66.6	Dec. 10, 1936	C,W	D,S	Steel casing. Well measured while pumping.
117	119.1	Nov. 20, 1936	C,W	D,S	2 feet galvanized iron casing at top. Reported slight drawdown pumping 7 gallons a minute for 12 hours.
118	93.5	Jan. 26, 1937	C,W	D,S	20 feet steel casing at top. Reported never fails in drought.
119	166.9	Nov. 19, 1936	C,W	D,S	Concrete curb; steel casing. Well measured while pumping.
120	74.9	Nov. 16, 1936	C,W	D,S, Ind	10 feet steel casing at top. Water reported from limestone at 70 feet and 230-232 feet. Reported never
121	108	Nov. 27, 1936	C,W	D,S	Steel casing. Well measured while pumping. <u>fails in drought,</u>



Records of wells and springs in Comal County--Continued

No.	Distance from Bulverde	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
122	8 miles north	A.H.Jones 89	Erie Specht	--	Old	200	6	0.6
123	6 miles north	Henry Wehe 610	Fred Wehe	A. Brown	1901	350	--	--
124	6½ miles north	Simon Freechild 75	Ed.Kuebel	--	1916	210	6	0.9
125	8 miles northeast	Hugh White 392	Otto Erben	--	Old	450	6	0.3
126	9½ miles northeast	B.S.& F.813	Julius Bremer	--	1906	185	6	--
e/127	8½ miles northeast	H.E.& W.T. R.R.Co. 919	A.J.Walser	--	Old	264	6	0.5
128	do.	do.	do.	--	--	64	6	0.2
e/129	7 miles northeast	C.Weidner 873	C.Weidner	--	Old	350	6	3.0
130	6 miles northeast	E. Flint 73	R.P.Holt	--	Old	620	6	--
131	5 miles north	Theo.Hanz 725	J.J.Arrechea	--	Old	300	6	1.
132	5 miles northwest	C.Moos 600	A.P.Scheel	--	1913	350	6	--
133	6 miles northwest	R.Moos 722	Eugene V. Scheel	Schwartz & Nichol	1898	280	6	0.6
134	do.	D.O.Dougherty 239	E.A.Moos	Herman Moos	1922	96	6	0.7
135	9 miles northwest	Henry S. Stouffer 240	John Kunc	--	1924	300	6	--
136	8 miles northwest	do.	Mrs. Emma Saur	--	Old	218	6	0.3
137	10½ miles west	Maria de la Luz Guerra 172	Guy S. McFarland	--	Old	300	6	0
138	8 miles west	D.W.Babcock 228	Bruno Klar	--	1860	25	36	1.
139	6½ miles west	Henry S. Stouffer 222	Joseph Offer	--	--	200	--	0
140	6 miles west	E.Velasco 223	Fr. Neugebauer	--	1885	300	6	1.
141	do.	do.	George Bros.	--	1885	216	6	--
142	do.	John Rhea 225	Mrs. C. L. Ellsworth	--	Old	217	--	--
143	4½ miles west	H. Yaerger 235	Aug.Scholz Est.	R.Schwartz	1906	236	6	0.3
144	do.	do.	do.	do.	1906	265	6	0.4
145	5 miles west	J. Webb 237	Mrs. Chas. Erben	- Brown	1895	235	6	--
146	4½ miles northwest	do.	E.A.Laubach	--	Old	400	--	--

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

b/ A, air-lift; B, bucket; C, cylinder; Cf, centrifugal; G, gasoline engine; H, hand; P, public supply; W, windmill; number indicates horsepower.

Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
122	157.8	Nov. 27, 1936	C,W	D,S	Steel casing. Reported never fails in drought.
123	315	Nov. 21, 1936	C,W	D,S	No casing. Reported never fails in drought.
124	210	Nov. 16, 1936	C,W	D,S	Galvanized casing. Reported never fails in drought.
125	273.4	Nov. 2, 1936	C,W,& G,2	D,S	Steel casing. Reported slight drawdown pumping with gasoline engine for 24 hours.
126	85	Nov. 25, 1936	C,G, 1 1/2	D,S	10 feet steel casing at top. Reported never fails in drought.
127	236.8	Nov. 2, 1936	C,G,2	D,S	Reported never fails in drought.
128	14.5	do.	C,W	D,S	Concrete curb; steel casing. Reported never fails in drought.
129	261.6	Nov. 25, 1936	C,W	N	Reported never fails in drought.
130	--	--	C,W	D,S	Steel casing. Reported never fails in drought.
131	117.8	Nov. 16, 1936	C,W & G, 1 1/4	D,S	Do.
132	--	--	C,W	D,S	Water level below 300 feet. Reported never fails in drought.
133	134.5	Dec. 7, 1936	C,W,& G,2	D,S	2 feet steel casing at top. Reported never fails in drought.
134	54.0	do.	C,W	D,S	Steel casing. Reported never fails in drought.
135	273	<u>d/</u>	C,W	D,S	20 feet steel casing at top. Reported never fails in drought.
136	210.4	Dec. 23, 1936	C,W	D,S	6 feet steel casing at top. Reported never fails in drought.
137	124.6	do.	C,W	D,S	10 feet steel casing at top. Reported never fails in drought.
138	14.7	do.	C,W	D,S	Dug well. Rock curb. Reported flows in wet seasons.
139	125.6	do.	C,W	D,S	Concrete curb. Reported never fails in drought.
140	136	Dec. 7, 1936	C,W,& G,-	D,S	Rock curb; 20 feet steel casing at top. Reported never fails in drought.
141	180	<u>d/</u>	C,W	D,S	Reported slight drawdown pumping 7 gallons a minute for 10 hours.
142	187.3	Dec. 23, 1936	C,G,3	D,S	Concrete curb; no casing. Reported never fails in drought.
143	216	Nov. 30, 1936	C,W	D,S	Rock curb; 5 feet steel casing at top. Reported never fails in drought.
144	209.6	do.	C,W	S	Rock curb. 5 feet steel casing at top. Reported never fails in drought.
145	220	<u>d/</u>	C,W	D,S	15 feet steel casing at top. Reported never fails in drought.
146	300	<u>d/</u>	C,W	D,S	Reported never fails in drought.

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

d/ Water level reported.

e/ No water sample collected for analysis.

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

No.	Distance from Bulverde	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
147	4 $\frac{1}{2}$ miles northwest	J. Webb 237	E.A. Laubach	--	Old	25	36	2.9
148	4 miles northwest	S. Fish 413	Aug. Scheel	Aug. Scheel	1870	15	36	2
149	do.	do.	do.	- Brown	1892	318	6	0.8
150	4 miles north	Henry Theis 411 $\frac{1}{2}$	Mrs. Louise Hill	--	Old	480	--	1
151	3 $\frac{1}{2}$ miles north	A. Schlather 656	O. Wehe	--	Old	350	--	--
152	do.	G. Bauer 764	do.	--	Old	110	6	0.4
153	4 miles north	C.W. Haas 454	J.A. Laubach	--	1896	60	6	0
154	do.	do.	do.	--	Old	25	36	1.3
155	4 $\frac{1}{2}$ miles north	Aga. Hara 451	George Fronne	--	Old	145	6	0.7
156	4 $\frac{1}{2}$ miles northeast	Theo. Miller 323	Gus Weidner	--	Old	360	6	0.4
156a	4 miles northeast	do.	Robert Bose	--	1897	465	6	--
156b	do.	do.	do.	--	-- Spring	--	--	--
157	6 miles northeast	C. Weidner 848	O.R. McKinney	--	Old	635	6	--
158	8 $\frac{1}{2}$ miles northeast	H. Pantermuehl 761	W.F. Sumbeling	--	Old	383	6	--
159	9 miles northeast	B. Smithson 920	O.A. Droppenschmidt	--	Old	615	6	--
e/160	do.	do.	do.	--	Old	80	8	0.4
161	10 miles northeast	H.E. & W.T. R.R. Co. 925	do.	--	Old	--	6	0.5
162	9 miles east	T. Alley 525	do.	--	--	350	6	--
e/163	9 $\frac{1}{2}$ miles northeast	F. Gass 858	H. Conrads	--	--	500	6	--
164	8 miles northeast	H. Pantermuehl 761	B. Stapper	--	1882	480	6	--
165	6 miles northeast	J. Hering 319	Ed. Adam	--	Old	24	36	0
166	do.	do.	do.	- Smith	1885	600	6	--
167	4 miles east	J. Birland 438	Clemens Scholz	--	Old	245	6	0.4
168	3 miles northeast	Dan Lewis 347	Julius Bose	--	Old	348	6	1.3
169	do.	do.	Ben Bose	Otto Vogel	1892	348	6	--
170	do.	J. Kaderli 449	Erwin Schneider	--	1890	414	6	0.7
171	do.	C. Georg 432	Mrs. Mattie Shelburne	--	1935	248	8	0.4

## Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power	Use of water	Remarks
	Depth below measuring point (feet)	Date of measurement			
147	9.3	Dec. 7, 1936	C,W	S	Dug well. Rock curb. Reported never fails in drought.
148	9.0	do.	C,W	N	Dug well. Rock curb; 15 feet rock casing at top. Reported dry pumping $1\frac{1}{2}$ gallons a minute for 1 hour in
149	263.5	do.	C,W,&G, $1\frac{1}{2}$	D,S	5 feet steel casing at top. Reported <u>dry seasons.</u> never fails in drought.
150	248.9	Nov. 21, 1936	C,W,&G,2	D,S	Reported never fails in drought.
151	--	Nov. 27, 1936	C,W	D,S	Do.
152	67.8	do.	C,W	S	Concrete curb; 5 feet galvanized steel casing at top. Reported never fails in drought.
153	33.4	do.	C,W	D,S	2 feet galvanized steel casing at top. Reported never fails in drought.
154	9.7	do.	C	N	Dug well. Rock curb. Reported never fails in drought.
155	83.7	Dec. 10, 1936	C,W	D,S	Steel casing. Reported water level 130 feet in summer. Reported never fails in drought.
156	240	Dec. 11, 1936	C,W	S	Steel casing. Reported never fails in drought.
156a	310	<u>d/</u>	C,G,3	D,S	14 feet steel casing at top. Reported never fails in drought.
156b	Flows	Dec. 11, 1936	None	S	Rock basin. Estimated flow, 15 gallons a minute from 1 opening in limestone. Reported never fails in drought.
157	--	do.	C,W,&G,3	D,S	20 feet steel casing at top. Water level below 300 feet. Reported dry pumping 3 gallons a minute <u>light.</u>
158	244	<u>d/</u>	C,W	D,S	Steel casing. Reported never fails in <u>for 12 hours.</u> drought.
159	--	Nov. 2, 1936	C,W	D,S	Steel casing. Water level below 300 feet. Reported never fails in drought.
160	46.4	do.	B,H	N	3 feet galvanized steel casing at top. Reported never fails in drought.
161	24	do.	C,W	D,S	Steel casing. Reported never fails in drought.
162	--	Jan. 26, 1937	C,G,4	D,S	Steel casing. Water level below 95 feet. Reported never fails in drought.
163	--	Nov. 2, 1936	C,G,6	D,S	Steel casing. Water level below 300 feet. Reported never fails in drought.
164	--	do.	C,W	D,S	Steel casing. Reported water level below 300 feet. Reported never fails in drought.
165	9.0	Dec. 11, 1936	C,H	S	Dug well. Rock casing. Reported flows in wet season; water level about 20 feet in dry season.
166	--	do.	C,W,&G,4	D,S	Steel casing. Water level below 300 feet. Water level reported 100 feet in wet seasons. Reported
167	227	do.	C,W	D,S	10 feet steel casing at top. <u>never fails in drought.</u> Reported never fails in drought.
168	311	<u>d/</u>	C,G,3	D,S	20 feet steel casing at top. Reported never fails in drought.
169	320	<u>d/</u>	C,W,G	D,S	100 feet steel casing at top. Water reported from gray sandstone, 300-325 feet. Reported never fails
170	290	Dec. 15, 1936	C,G	D,S	Steel casing. Reported never fails in <u>in drought.</u> drought.
171	228.9	Nov. 16, 1936	B,H	D	3 feet steel casing at top. Water reported from sandstone, 244-246 feet. Reported never fails in drought.

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

No.	Distance from Bulverde	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
172	3 miles north	T.Gotthard 464	V.F.Moos	--	Old	320	--	0.2
173	2½ miles northwest	Edward Ryan 411	Edgar Bremer	--	1890	100	6	0.6
174	do.	W.H.Beard 415	Mrs. M. K. Hohman	--	Old	30	6	0.8
175	3 miles northwest	do.	do.	--	1886	315	6	0.5
176	do.	do.	do.	--	--	Spring	--	--
177	3½ miles northwest	A. Holbrook 414	L.T.Jones	--	Old	300	6	0.5
178	4 miles west	J. Tate 455	H. Laubach	- Dietz	1934	700	6	0.6
179	3 miles west	J.M.Rivas 191	W.O.Stahl	--	Old	308	6	0.4
180	1½ miles west	G. Herrera 192	Philip Lux	--	1924	348	6	--
e/181	1 mile southwest	do.	Mrs. Wm. Scholz	--	1896	360	6	--
182	do.	do.	Aug. Scholz	--	1896	336	6	--
183	At Bulverde	do.	Aug. Wehe	- Vogues	Old	375	6	0.2
184	1 mile east	A.Gaytan 194	Chas.Willig	--	1914	300	6	1.
185	1½ miles east	do.	Herman Scholz	--	--	320	6	--
186	2 miles east	do.	Mrs. Emilie Stahl	--	--	450	6	--
e/ 187	do.	do.	Adolph Kap-pelmann	--	1899	444	6	0.8
188	3 miles east	M.B.Dykes 343	Adam Meyer	--	Old	90	6	0.3
189	4 miles east	Richard Rul-leage 403	Otto Hitz-felder	--	1933	15	--	0.7
190	do.	do.	do.	--	--	Spring	--	--
191	4½ miles east	F.Ximenes 346	do.	- Schwartz	1900	381	6	--
192	5½ miles east	Anna Vecker 678	W.B.Eth-ridge	--	--	Spring	--	--
193	do.	do.	do.	--	--	200	6	0.2
194	6 miles east	do.	Wm.Zeucher	--	1922	535	6	--
195	9 miles east	Franz Heimer 912	Robert Heimer	--	1926	178	6	--

Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
172	262	Nov. 27, 1936	C,W	D,S	Well measured while pumping. Reported never fails in drought.
173	86	Nov. 21, 1936	C,W,& G, 1 $\frac{1}{2}$	D,S	Rock curb; 10 feet steel casing at top. Reported never fails in drought.
174	11.6	Nov. 30, 1936	None	N	30 feet galvanized steel casing. Reported never fails in drought.
175	247.6	do.	C,W,& G, 7	D,S	Steel casing. Reported never fails in drought.
176	Flows	do.	--	D	Covered concrete basin. Estimated flow, 12 gallons a minute from 1 opening in limestone. Reported never
177	264.7	do.	C,W	D,S	Rock curb; steel casing. Reported <u>never fails in drought.</u>
178	244.2	do.	C -	D,S	Concrete curb; steel casing. Water reported from blue clay, 680-700 feet. Reported never fails in drought.
179	88.5	Nov. 27, 1936	C,W,& G, -	D,S	Concrete curb; 35 feet steel casing at top. Reported pumps dry at 8 gallons a minute in 4 hours. Reported
180	142	do.	C,W,& G, 4	D,S	Wood block curb; 10 feet steel casing at top. Measured while pumping $\frac{1}{2}$ gallon a minute. Reported <u>never fails in drought.</u>
181	250	<u>d/</u>	C,W	D,S	Steel casing. Reported never fails in drought.
182	300	<u>d/</u>	C,W,& G, 1 $\frac{1}{2}$	D,S	Reported water level 80 feet in wet season. Water reported from yellow clay at 40 feet, and from yellow sand, 334-336 feet. Reported never fails in drought.
183	218.0	Nov. 12, 1936	C,W	D,S	40 feet steel casing at top. Reported never fails in drought.
184	214.1	do.	C,W	D,S	Steel casing. Reported never fails in drought.
185	280	<u>d/</u>	C,W	D,S	Steel casing. Reported never fails in drought.
186	--	Dec, 15, 1936	C,W	D,S	50 feet 6-inch steel casing at top. Water level below 250 feet. Reported never fails in drought.
187	--	do.	C,W,& G, -	D,S	Steel casing. Reported never fails in drought.
188	49.2	Nov. 15, 1936	C,W	D,S	Do.
189	11.0	Nov. 11, 1936	C,W	D,S	Dug well. Limestone and caliche, top to bottom. Reported never fails in drought.
190	Flows	Nov. 15, 1936	--	S	Rock basin. Estimated flow 10 gallons a minute. Reported flow increases to 60 gallons a minute in wet
191	160	<u>d/</u>	C,W	D,S	10 feet steel casing at top. Water reported <u>season.</u> from sandstone, 373-375. Reported never fails in drought.
192	Flows	Nov. 12, 1936	--	S	Flows into pool from 1 under-water opening in limestone.
193	153.9	do.	C,G, 6	D,S	Steel casing. Reported never fails in drought.
194	121	<u>d/</u> Nov. 1935	C,W,& G, 4	D,S	6 feet steel casing at top. 400 feet of tubing reported necessary when well is pumped heavily. Report-
195	78	<u>d/</u>	C,W,& G, 1 $\frac{3}{4}$	D,S	4 feet steel casing at top. <u>Reported never fails in drought.</u>

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

No.	Distance from New Braunfels	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (9in.)	Height of measuring point above ground (ft.) <u>a/</u>
201	11 miles north	John Johnson	J.B.Crawford	--	--	300	6	--
202	10 miles north	B.F.Hanna 15	H. Kanc	--	Old	50	36	1.2
203	9 miles northwest	Juan Cassillas 310	H.A.Conrad	--	--	Spring	--	--
204	do.	J.M.Tejerino 349	do.	--	Old	180	6	--
205	9½ miles northwest	G.W.T.& P. R.R.Co. 839	Ed. Haag	--	--	475	6	0.7
206	10½ miles west	B.S.& F.R.R. Co. 817	A.I.Kabelmacher	--	--	475	6	--
207	13 miles west	T. Losoya 571	Ed. Reeh	--	Old	325	--	--
e/208	12½ miles west	do.	do.	--	--	400	6	0.9
209	13 miles west	J.Thompson 758	do.	--	1916	390	6	--
210	9½ miles west	Fred Gesche 779	George Gesche	--	1929	320	6	0.4
211	9 miles west	Theodor Koesler 769	Otto Ohlrich	--	1897	350	6	0.7
212	8 miles northwest	G.W.T.& P. R.R.Co. 837	E. Herbst	--	Old	425	6	--
213	6½ miles northwest	A.M.Holbrook 423	B. Borchers	--	1902	402	--	--
214	6 miles northwest	John Kneuper 587	Paul Dietz	--	Old	300	6	0.2
215	5 miles northwest	Christian Pape 948	Jerome Schumann	Alex. Fabian	1915	365	6	--
216	5½ miles northwest	Chas. Pape 947	Alvin Jahns	--	1906	300	6	0.7
217	6 miles northwest	G.Carro sco 272	H.D.Stronberg	--	--	Spring	--	--
e/218	7 miles north	G.F.Lawrence 8	Dr. Wright	--	--	15	36	2.4
219	8 miles north	Wesley Hughes 30	E.T.Lackey	--	1911	500	6	--
220	do.	Wiley Hughes 29	Albert Pfeuffer	--	Old	400	6	--
221	4 miles north	Juan M. de Veramendi	Albert Simon	--	1931	186	6	--
222	4 miles northwest	do.	Wm.Kraft	--	1906	190	6	0.5
223	4½ miles northwest	T.Miller 266	Albert Kraft	--	--	320	6	0.9
224	do.	C.Vaca 275	Herman Kraft	--	Old	256	6	0.8

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

b/ A, air-lift; B, bucket; C, cylinder; Cf, centrifugal; G, gasoline engine; H, hand; P, public supply; W, windmill; number indicates horsepower.

Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measuring point (feet)	Date of measurement			
201	--	Nov 3, 1936	C, I	D, S	Steel casing. Reported never fails in drought.
202	43.9	Nov. 4, 1936	C, H	S	Concrete curb.
203	Flows	Nov. 5, 1936	--	D, S	Estimated flow, 1½ gallons a minute from 2 openings in limestone. Reported never fails in drought.
204	100	d/	C, W	D, S	Steel casing. Reported never fails in drought.
205	193.1	Oct. 28, 1936	C, W	D, S	Reported never fails in drought.
206	400	d/	C, G, 2	D, S	Steel casing. Reported slight drawdown pumping 6 gallons a minute for 24 hours. Reported never fails in drought.
207	156.6	Dec. 1, 1936	None	N	No casing. drought.
208	242.9	do.	C, W	N	Steel casing. Water reported from limestone, 375-400 feet. Reported never fails in drought.
209	360	d/	C, W	D, S	250 feet steel casing at top. Reported never fails in drought.
210	256.1	Nov. 9, 1936	C, W	D, S	Steel casing. Reported never fails in drought.
211	196.4	do.	C, W, & G, 1½	D, S	Do.
212	200	d/	C, W	D, S	Do.
213	332	d/	C, G, 1½	D, S	Reported never fails in drought.
214	251.7	Nov. 5, 1936	C, W	D, S	20 feet steel casing at top. Reported never fails in drought.
215	285	d/	C, W	D, S	10 feet steel casing at top. Reported never fails in drought.
216	273	Jan. 18, 1937	C, W	D, S	Steel casing. Reported never fails in drought.
217	Flows	Nov. 5, 1936	--	N	Estimated flow 1 gallon a minute from 1 opening in limestone. Reported never fails in drought.
218	9.0	Oct. 22, 1936	B, H	D, S	Dug well. Rock curb. Tank supply reported.
219	--	Nov. 3, 1936	C, W, & G, 6	D, S	Steel casing. Water level reported below 300 feet. Reported never fails in drought.
220	--	do.	A, G, 6	D, S	Do.
221	171	d/	C, W	D, S	Steel casing. Reported never fails in drought.
222	161.5	Oct. 28, 1936	C, W	D, S	134 feet steel casing at top. Reported never fails in drought.
223	212	Dec. 21, 1936	C, W	D, S	Steel casing. Reported never fails in drought.
224	230.7	do.	C, W	D, S	3 feet galvanized steel casing at top. Reported never fails in drought.

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

d/ Water level reported.

e/ No water sample collected for analysis.



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

No.	Distance from New Braunfels	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
225	4 miles northwest	E. Hernandez 454	W.H. Harborth Est.	--	1895	265	6	1.1
226	4½ miles northwest	do.	Henry Heise	--	1923	290	6	0.6
227	4½ miles west	do.	H. Borchers	--	Old	300	6	--
229	5 miles west	Lewis Salinas 360	Edward Nowotny	--	Old	325	6	--
230	do.	Henrietta Boehme 447	H. Doehne	--	Old	1,000	6	--
231	6 miles west	Aug. Micheli 485	Gus Vogel	Fey & Marshall	1915	325	6	--
232	6½ miles west	H. Adams 652	A.J. Caldwell	--	Old	250	6	0.4
233	7½ miles west	C. Gesche 659	Richard Gesche	--	1902	313	6	0.9
234	8½ miles west	Comal County School Land Sur. 396	Otto Ohlrich	--	Old	265	6	--
236	9 miles west	M. Gallardo 363	--	--	Old	--	36	1.
237	10 miles west	do.	Eugene Krause	--	--	275	6	1.4
e/238	9½ miles west	Chas. H. Artzt 318	Mrs. T. Hermant	--	1901	295	6	--
239	11 miles west	F. Zuercher 679	Mrs. H. Hedwig	Fr. Hillert	1932	45	6	0.6
240	do.	C. Busch 441	H. Blank	--	1926	340	6	0.8
e/241	12 miles west	Thomas Hand 390	Mrs. A. Schneider	--	1925	322	6	0
242	13 miles west	J. Hamilton 90	Lavine Hoffmann	--	Old	--	6	0.3
243	12½ miles west	C.P.O. Hanlon 72	Edw. Gerhardt	--	--	326	6	--
244	13 miles west	do.	Linnie Binseil	--	--	240	8	0.8
245	13½ miles west	N. Flores 70	Lavine Hoffman	--	Old	--	6	0.6
246	13½ miles southwest	V. Micheli 114	Henry Schmidt	--	1880	50	36	1.5
247	do.	do.	Henry Simeon	--	Old	200	6	1.5
248	13 miles southwest	do.	A.B. Burkhardt	Chas. Donoubauer	1910	250	6	1.
249	12 miles southwest	Geo. M. Dolson 96	Edgar Burkhardt	--	Old	180	6	0.5
250	10½ miles southwest	J. Hirschleber 501	Glen Wilson	--	Old	--	6	--
251	7½ miles west	P. Hernandez 422	Schaeffer Bros., et al.	--	Old	275	6	0.7

Emil J. Michel, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
225	188.1	Oct. 28, 1936	C,W	D,S,I	Steel casing. Reported used for irrigation in 1925. Reported never fails in drought.
226	259.7	Dec. 21, 1936	C,W	D,S	Steel casing. Reported never fails in drought.
227	258	Oct. 28, 1936	C,G,3	D,S	Steel casing. Water reported in sandstone, 295-300 feet. Reported never fails in drought.
229	300	<u>d/</u>	C,W,&G,6	D,S	Steel casing. Reported never fails in drought.
230	--	Jan. 18, 1937	C,W	D,S	Steel casing. Water level below 300 feet. Reported never fails in drought.
231	--	Dec. 22, 1936	C,W	D,S	36 feet steel casing at top. Water level reported below 300 feet. Water reported from sand and gravel, 300-325 feet. Reported never fails in drought.
232	189.2	Jan. 25, 1937	C,W,&G,4	D,S	Steel casing.
233	260.8 265.5	Dec. 16, 1936 Jan. 10-37	C,W,&G,6	D,S	Steel casing. Water level reported by Penn Livingston, October 11, 1933, 267.4 feet below ground level. Reported never fails in drought.
234	250	<u>d/</u>	C,W,&G,4	D,S	Steel casing. Reported slight drawdown pumping 10 gallons a minute for 12 hours. Reported never fails
236	24.3	Jan. 21, 1937	C,W	D,S	Dug well. Wood block curb; rock casing. <u>in drought.</u> Reported never fails in drought.
237	<del>256.3</del>	Oct. 26, 1936	C,G,7	D,S	Steel casing. Water level measured by Penn Livingston Oct. 11, 1933, 257.0 feet below ground level. Reported
238	--	do.	C,W	D,S	Steel casing. Water level <u>never fails in drought.</u> below 200 feet. Reported never fails in drought.
239	20.6	Nov. 24, 1936	C,W	I	35 feet steel casing at top. Reported never fails in drought.
240	297.5	do.	C,W	D,S	Steel casing. Reported never fails in drought.
241	300	<u>d/</u>	C,G,-	D,S	315 feet steel casing at top. Water reported from sandstone, 320-322 feet. Reported never fails in drought.
242	231.4	Dec. 17, 1936	C,W	S	Steel casing. Well measured while pumping. Re- <u>ught.</u> Reported never fails in drought.
243	--	do.	C,W	D,S	Steel casing. Water level below 300 feet. Water level measured by Penn Livingston, Oct. 11, 1933, 306.8 feet below ground level. Reported never fails in drought.
244	175.6	do.	C,W	D,S	Steel casing. Well measured while pumping. Reported never fails in drought.
245	151.8	do.	C,W	D,S	Steel casing. Reported never fails in drought.
246	42.4	do.	C,W	D,S	Dug well. Concrete curb; rock casing. Reported never fails in drought.
247	131.7	do.	C,W	D,S	Steel casing. Reported never fails in drought.
248	149.0	Oct. 26, 1936	C,W	D,S	Steel casing. Measured while pumping. Reported never fails in drought.
249	169.5	Nov. 24, 1936	C,W	D,S	Do.
250	--	Dec. 19, 1936	C,W	D,S	Steel casing. Water level below 242 feet. Reported never fails in drought.
251	244.2	Dec. 18, 1936	C,W,&G,3	D,S	Water level measured by Penn Livingston, May 28, 1934, 241.4 below ground level. Reported never fails in drought.

Records of wells and springs in Comal County--Continued

No.	Distance from New Braunfels	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <u>a/</u>
252	8 miles west	C. Andreas 437	Herman Vogel	Emil Fey	1916	300	6	0.9
253	7½ miles west	V. Salinas 393	C. Kreuzler	--	1900	300	6	0.6
254	8½ miles west	C. Kreussler 696	Erwin Voigt	Paul Schumann	1936	375	6	--
255	7 miles west	V. Salinas 393	Carl Kreuzler	--	1919	330	6	--
256	6 miles west	Geo. Ullrich 392	Mrs. Wm. Hillert	--	1915	390	6	--
258	5½ miles west	Jos. Thompson 751	Fritz Kunkle	--	1865	90	36	3.5
259	do.	do.	do.	--	1906	420	6	--
260	do.	Henry Deitz 448	Emil Deitz	--	1895	450	6	--
261	5 miles west	J.H. Hartmann 358	O.C. Brehmer	--	1898	304	6	0.5
262	4½ miles west	J.G. Brenier 424	Ed. C. Heidrich	--	1922	335	8	--
e/264	3½ miles west	Louis Salinas 458	Ed. Dischinger	Frank Hillert	1925	305	6	--
265	3 miles west	Wm. Mockford 285	R.R. Coreth	--	--	290	8	--
266	2 miles northwest	J.M. de Vera-mendi	A. Swanson	A. Swanson	1936	152	6	1.
e/268	4½ miles north	Orilla Russell 2	C.A. Conring	C.A. Conring	1900	175	6	0.4
269	4½ miles northeast	do.	Jack Kretzmeir	Jack Kretzmeir	--	168	6	0.9
270	do.	do.	Alvin Kraft	- Owens	1932	138	6	0.2
271	do.	do.	Robert Raabe	--	1901	140	6	0.6
272	5 miles northeast	do.	Bruno Raabe	--	Old	--	6	1.5
273	5½ miles northeast	do.	C. Conrad	--	--	145	6	1.1
274	6 miles northeast	Nancy Kenner 3	Chas. Soechting	--	1896	210	6	1.
275	do.	do.	Erich Resenthal	--	1901	230	6	--
e/276	do.	do.	Charlie Crawford	--	Old	---	6	--
277	6½ miles northeast	do.	Chris. Resenthal	--	1898	212	--	0
278	7 miles northeast	do.	Nancy Greune	--	Old	160	6	0.6

Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
252	253.6	Jan. 21, 1937	C,W	D,S	Steel casing. Water reported from limestone, 242-248 feet. Reported never fails in drought.
253	274.2	Nov. 24, 1936	C,W,&G,6	D,S	70 feet steel casing at top. Reported never fails in drought.
254	--	Jan. 21, 1937	C,G,4	D,S	Steel casing. Water level below 230 feet. Water reported 370-375 feet.
255	300	d/Dec. 1936	C,G,-	D,S	220 feet steel casing at top. Log reported: limestone 0-270 feet; yellow clay, 270-280 feet; limestone 280-330 feet. Reported never fails in drought.
256	330	d/	C,G,2	D,S	200 feet steel casing at top. Water reported from 335 feet.
258	11.9	Oct. 27, 1936	B,H	N	Dug well. Box curb. Reported flows in wet seasons. Reported never fails in drought.
259	400	d/	C,G,-	D,S	Steel casing. Reported never fails in drought.
260	--	Dec. 22, 1936	C,G,-	D,S	Steel casing. Water level below 300 feet. Reported never fails in drought.
261	279	Dec. 1, 1936	C,W	D,S	Steel casing. Measured while pumping. Water level measured by Penn Livingston, May 25, 1934, 283.6 below ground level. Reported never fails in drought.
262	328	d/1922	C,W	D,S	22 feet steel casing at top. Water reported from sandstone, at 150 feet and 330-335 feet. Reported never
264	293	d/1925	C,G,2	D,S	Steel casing. Reported never fails in drought.
265	281	May 25, 1934	C,W	D,S	Steel casing. Reported never fails in drought.
266	101.8	Jan. 6, 1937	C,W	--	Steel casing. Water reported from limestone, 128-132 feet and 148-152 feet. Drawdown reported slight pumping 90 gallons a minute for 6 hours. Log: 0-28 feet gravel and clay; 28-30 feet limestone; 30-120 feet red clay; 120-152 feet limestone. Reported never fails in
268	150.8	Oct. 22, 1936	C,W	D,S	77 feet steel casing at top. Water reported from cavity in limestone, 160-162 feet. Reported in drought.
269	152.4	do.	C,W	D,S	Steel casing. Water reported from sandstone, 167-168 feet. Reported never fails in drought.
270	132.4	Oct. 21, 1936	C,W	D,S	25 feet steel casing at top. Reported never fails in drought.
271	90.2	Dec. 30, 1936	C,W	D,S	10 feet galvanized steel casing at top. Reported never fails in drought.
272	154.3	do.	C,W	D,S	Reported never fails in drought.
273	118.5	Oct. 20, 1936	C,W	D,S	Cast iron casing. Reported never fails in drought.
274	158.5	Jan. 5, 1937	C,G,2	D,S	200 feet steel casing at top. Water reported from blue clay, 162-166 feet and at 200 feet. Reported
275	165	d/1901	C,W	D,S	Steel casing. Reported never fails in drought.
276	202.4	Dec. 30, 1936	C,W,&G,3	D,S	Do.
277	189.9	Jan. 5, 1937	C,W	S	No casing. Water level reported 200 feet in 1898; much higher in wet seasons. Reported never fails in drought.
278	147.2	Oct. 20, 1936	C,W	S	Steel casing. Reported never fails in drought.

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

No.	Distance from New Braunfels	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) <sup>a/</sup>
279	8 miles northeast	Samuel Craft Sr.	Wm. Posey	--	1891	160	6	0.9
280	8 $\frac{1}{2}$ miles northeast	do.	Hilmer Doehne	--	Old	250	6	0.9
281	9 miles northeast	do.	Travis H. Tate	--	--	152	--	0.6
282	10 miles northeast	do.	Phoenix Life Ins. Co.	--	--	145	6	0.3
283	9 miles northeast	do.	Emil Preusser	--	--	330	6	2.1
284	7 miles northeast	Antonio Maria Esnaurizar	Carl Kutschschor Est.	--	1930	50	36	1.
285	5 miles northeast	do.	H. Mittendorf	--	1925	32	36	0
287	3 $\frac{1}{2}$ miles northeast	Orilla Russell 2	Arthur Bartels	--	--	65	36	--
288	2 $\frac{1}{2}$ miles northeast	A.P. Fuquay 35	Iwan Wallhoefer	--	--	Spring	--	--
289	2 $\frac{1}{2}$ miles north	J. M. de Veramendi	Wm. D. Wiomers	--	Old	80	6	1.4
291	do.	do.	Oscar Priess	--	--	65	6	1.3
292	do.	do.	Johanna Baetde	--	1912	85	6	1.4
293	1 $\frac{1}{2}$ miles northwest	do.	H.M. Landa	--	--	--	6	1.1
294	1 mile northwest	do.	City of New Braunfels	--	--	Spring	--	--
295	1 $\frac{1}{2}$ miles northwest	do.	Mrs. Meta Penshorn	--	Old	25	36	0.2
296	2 $\frac{1}{2}$ miles west	do.	Max Aftgelt	Paul Schumann	1934	345	8	0.8
297	3 miles west	do.	U.S. Gypsum Co.	--	--	125	--	6
298	4 $\frac{1}{2}$ miles west	S.A. & M.G. R.R. Co. 599 $\frac{1}{2}$	R.R. Coreth	--	--	275	6	1.5
299	5 miles west	J.M. de Veramendi	Wm. Fey	Paul Schumann	Old	89	6	1
300	do.	do.	Roland Welsch	do.	1934	372	6	1.6
304	6 miles southwest	F. Rodriguez 99	Carl Kreuger	--	Old	300	6	1.1
305	7 $\frac{1}{2}$ miles southwest	do.	Joseph Friesenhahn	--	1895	360	6	0
306	8 miles southwest	V. Bennett 100	Oscar Jonas	--	1890	360	6	1.2

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

<sup>b/</sup> A, air-lift; B, bucket; C, cylinder; Cf, centrifugal; G, gasoline engine; H, hand; P, public supply; W, windmill; number indicates horsepower.

## Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power	Use of water	Remarks
	Depth below measur- ing point (feet)	Date of measur- ment			
279	111.3	Oct. 21, 1936	C, W	D, S	10 feet steel casing at top. Water reported from sand stone, 158-160 feet. Reported never fails in drought.
280	93.1	Jan. 5, 1937	C, W	D, S	Steel casing. Reported never fails in drought.
281	20.1	Jan. 6, 1937	C, W	S	Reported never fails in drought.
282	114.4	Oct. 21, 1936	C, W	D, S	Steel casing. Reported never fails in drought.
283	14.2	Jan. 5, 1937	C, W	N	Do.
284	39.3	Oct. 21, 1936	C, W	D, S	Dug well. Rock casing. Reported never fails in drought.
285	12.0	do.	C, W	D, S	Dug well. Brick curb and casing. Reported never fails in drought.
287	48.6	Oct. 22, 1936	C, W	D, S	Dug well. Box curb; rock casing. Reported never fails in drought.
288	Flows	Dec. 30, 1936	W	D, S	Estimated flow, 60 gallons a minute from 1 opening in limestone. Reported never fails in drought. Located on east bank Guadalupe River.
289	48.5	do.	C, W, & G, 3	D, S	Steel casing. Reported never fails in drought.
291	52.4	Oct. 21, 1936	C, W	D, S	<del>Steel casing. Reported never fails in drought.</del> <i>Do.</i>
292	55.3	Oct. 28, 1936	C, W	D, S	Do.
293	120.6	Dec. 6, 1936	C, W	D, S	<del>Steel casing. Reported never fails in drought.</del> <i>Do.</i>
294	Flows	Oct. 27, 1936	None	P	Maximum flow 157,000 and minimum flow 112,500 gallons a minute from 6 openings in limestone. Supplies city of New Braunfels. Known as Comal Springs.
295	8.3	Dec. 22, 1936	C, W	D, S	Dug well. Rock curb and casing. Reported never fails in drought.
296	53.3	Dec. 4, 1936	C, G, 4	D, S	Steel casing. Water reported from gravel at 345 feet. Blue clay reported, 50-345 feet. Reported never fails in drought.
297	51.1	do.	None	N	Rock curb. Reported never fails in drought. Located inside grounds of plant.
298	230	Dec. 16, 1936	C, W	S	Steel casing. Water level measured by Penn Livingston, May 25, 1934, 230.7 feet below ground level. Reported never fails in drought.
299	66.4	Dec. 5, 1936	C, W	S	Steel casing. Reported never fails in drought.
300	33.7	Dec. 4, 1936	C, W	D, S	Steel casing. Blue clay reported, top to bottom; no water above 372 feet. Water level measured by Penn Livingston, May 25, 1934, 38.3 feet below ground level. Reported never fails in drought.
304	20.5	Dec. 16, 1936	C, W	D, S	Concrete curb; 15 feet steel casing at top. Reported never fails in drought.
305	56	Dec. 18, 1936	C, W, & G, 2	D, S	40 feet galvanized steel casing at top. Strong supply reported.
306	68.4	do.	C, W	D, S	Steel casing. Reported never fails in drought.

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

d/ Water level reported.

e/ No water sample collected for analysis.

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

No.	Distance from New Braunfels	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
307	8 $\frac{1}{2}$ miles southwest	V. Bennett 100	Adolph Mueller	--	1911	160	6	0.9
308	do.	J. Nelson 97	Wesley Hierholzer	--	Old	117	6	0.7
309	9 miles southwest	do.	Ben Elley	--	--	125	6	0
311	9 $\frac{1}{2}$ miles southwest	E. Woodruff 95	Robert Hierholzer	--	Old	130	6	0.7
312	10 miles southwest	do.	O. K. Klaerner	--	Old	109	6	1.1
313	10 $\frac{1}{2}$ miles southwest	J. de Cardova 514	R.P. Schnei- der	--	1928	192	6	0.6
314	11 miles southwest	Geo. M. Dol- son 96	A.C. Riedel	--	1925	225	6	0.2
315	12 miles southwest	do.	do.	--	Old	306	5	0
316	13 miles southwest	T. Herrera 68	Joe Gleitz	--	--	310	6	1.5
317	do.	do.	do.	--	Old	200	6	0.6
318	11 $\frac{1}{2}$ miles southwest	do.	Wm. Tonne	Spring & Donnerbauer	1910	476	6	1.1
319	9 miles southwest	R. Garza 98	Joe Vogel	--	--	350	6	1.3
320	do.	do.	J.C. Stigall	--	Old	400	6	0.8
e/321	8 $\frac{1}{2}$ miles southwest	do.	F. Schwab	--	Old	150	6	1.1
322	do.	do.	Valentine Schwab	--	--	38	36	2.1
323	8 miles southwest	do.	Albert Kechner	--	1911	130	6	0.7
325	7 $\frac{1}{2}$ miles southwest	F. Rodriguez 99	Bruno Schwab	--	1916	150	6	1
326	do.	do.	Wm. Schaeffer	--	--	300	4	1.1
327	5 $\frac{1}{2}$ miles southwest	do.	L. E. Kneupper	Henry Spring	1911	84	6	0.5
328	7 miles southwest	C.M. Gahagan 258	Alvin Schaeffer	--	1900	360	6	0.4
329	6 $\frac{1}{2}$ miles southwest	do.	Gus Kleerner	--	1914	131	6	1.1
330	7 miles southwest	F. Rodriguez 99	Ed. Salm	--	--	300	--	0.7
332	6 miles southwest	J. Noyes 259	Ben Jahn	--	Old	395	6	1.2
333	do.	F. Rodriguez 99	O. Penshorn	--	Old	428	6	0.8

## Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power b/	Use of water c/	Remarks
	Depth below measur- ing point (feet)	Date of measure- ment			
307	87.7	Dec. 18, 1936	C,W	D,S	20 feet galvanized steel casing at top. Reported never fails in drought.
308	81.6	Dec. 19, 1936	C,W	D,S	Wood block curb; 40 feet steel casing at top. Reported never fails in drought.
309	79.4	do.	C,W	D,S	Concrete curb; steel casing. Reported never fails in drought.
311	125.7	do.	C,W	D,S	Steel casing. Reported never fails in drought.
312	81.2	Oct. 26, 1936	C,W	D,S	Do.
313	119.4	do.	C,W	D,S	Steel casing. Water reported from sand at 145 feet, and sandstone, 190-192 feet. Reported never fails in drought.
314	133.2	Dec. 17, 1936	C,W	D,S	Concrete curb; steel casing. Reported never fails in drought.
315	135	do.	C,W	D,S	200 feet steel casing at top. Water level measured by Penn Livingston, May 24, 1934, 141.5 feet below ground level. Reported never fails in drought.
316	101.7	Dec. 12, 1936	C,W	D,S	Steel casing. Water level measured by Penn Livingston, Oct. 2, 1933, 108.3 feet below ground level. Reported never fails in drought.
317	74.6	do.	None	N	Steel casing. Water level measured by Penn Livingston, Oct. 2, 1933, 76.2 feet below ground level. Reported never fails in drought.
318	155	Nov. 24, 1936	C,W	D,S	20 feet steel casing at top, finish 450 feet $4\frac{1}{8}$ -inch steel casing. Measured while pumping. Reported never fails in drought.
319	128.6	Dec. 3, 1936	C,W	S	Wood block curb; steel casing. Water level measured by Penn Livingston, May 24, 1934, 134 feet below ground level. Reported never fails in drought.
320	63.8	Nov. 24, 1936	C,W	D,S	Steel casing. Reported never fails in drought.
321	71.1	Dec. 16, 1936	None	N	Tile casing. Weak supply reported. Hydrogen sulphide odor.
322	24.1	do.	C,W	D,S	Dug well. Concrete curb; rock casing. Reported never fails in drought.
323	69.3	Dec. 1, 1936	C,W	D,S	50 feet steel casing at top. Reported never fails in drought.
325	17.0	Dec. 18, 1936	C,G,4	D,S	20 feet steel casing at top. Water reported from limestone, 138-142 feet. Reported never fails in drought.
326	29.3	Dec. 3, 1936	C,W	D,S	Wood block curb; steel casing. Reported never fails in drought.
327	26.0	Oct. 26, 1936	C,W	D,S	22 feet steel casing at top. Water reported from sandstone, 83-84 feet. Reported never fails in drought.
328	32.3	Dec. 16, 1936	C,W	D,S	Wood curb; steel casing. Reported never fails in drought.
329	47.8	Dec. 4, 1936	C,W	S	Steel casing. Reported never fails in drought.
330	21.1	Dec. 3, 1936	C,W	D,S	Reported never fails in drought.
332	80.6	Dec. 18, 1936	C,W	S	Steel casing. Water level measured by Penn Livingston May 28, 1934, 82.9 feet below ground level. Reported never fails in drought.
333	30.3	Dec. 3, 1936	C,W	D,S	Steel casing. Water level measured by Penn Livingston, May 28, 1934, 53 feet below ground level. Reported never fails in drought.



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

No.	Distance from New Braunsfels	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
336	5½ miles southwest	F. Rodriguez 99	A.W. Feick	Paul Schumann	Old	700	6	0.7
337	5 miles southwest	John Thompson	Wm. Stratemann	--	Old	--	--	0.5
338	do.	do.	do.	--	Old	--	36	1.6
339	4½ miles southwest	do.	Otto Reinartz	--	Old	465	3	--
341	do.	J.M. de Vera-mendi	Otto Feick	--	Old	200	6	--
342	do.	do.	W.E.F. Eilers	--	Old	240	6	1
343	4½ miles west	do.	Otto Feick	Paul Schumann	1934	91	6	--
344	3½ miles southwest	do.	A. Triesch	--	1898	90	6	1.5
346	2½ miles west	do.	A.H. Werner	--	1900	148	6	2.1
347	2 miles southwest	do.	Theo Doerr	--	Old	503	6	0.7
348	2 miles west	do.	Hy. Moeller & Co.	--	-- Spring	--	--	0
349	1½ miles west	do.	Max Walther	--	1898	31	36	0.5
352	1½ miles east	A.M. Esnau-rizar	Erwin Soefje	--	Old	427	6	0
355	2 miles east	do.	Ad. Tausch	--	Old	--	36	1.4
356	do.	do.	Fritz Neuse	Fritz Neuse	1915	24	36	0.7
359	3 miles east	do.	Albert Soefje	--	1895	57	36	0.4
360	5½ miles east	do.	H. Kicker-itz	H. Kick-eritz	1933	36	6	0.2
361	4½ miles east	do.	Emma Rose	--	--	32	60	0.2
362	4 miles east	do.	R. Kraft	--	Old	40	36	3.2
363	3 miles east	do.	August Timmermann Sr.	--	Old	50	36	3.1
364	do.	do.	E.W. Mueller	--	1918	35	36	1.4
365	3½ miles southeast	do.	B. Bartles	--	-- Spring	--	--	--
367	2½ miles east	do.	Mrs. H. Oelkers	--	Old	40	36	2.2
368	2 miles east	do.	D. Werner	--	Old	30	60	0.5
372	3½ miles southwest	John Thomp-son	Henry Voight	--	1898	510	6	2.2
373	do.	do.	L. Jentsch	--	Old	485	6	1.5

Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
336	77.8	Oct. 26, 1936	C,W	D,S	Steel casing. Water level measured by Penn Livingston, May 28, 1934, 69.7 feet below ground level. Reported
337	60.8	Jan. 6, 1937	C,W	S	Concrete curb; no casing. never fails in drought. Reported never fails in drought.
338	8.4	do.	C,H	D	Dug well. Concrete curb; brick casing. Reported never fails in drought.
339	7.0	Dec. 3, 1936	None	N	Reported never fails in drought.
341	35	<u>d/</u>	C,W	S	Steel casing. Reported never fails in drought.
342	26	Oct. 27, 1936	C,W	D,S	Do.
343	86	<u>d/</u> April 1934	C,G,2	S	10 feet steel casing at top. Rock reported, top to bottom. Reported never fails in drought.
344	29.4	Nov. 9, 1936	C,W	D,S	Wood block curb; 40 feet steel casing at top. Reported never fails in drought.
346	2.0	Dec. 4, 1936	C,W	D,S	Concrete curb; 48 feet steel casing, at top. Flows at times. Water reported from blue clay, 144-148 feet. Reported never fails in drought.
347	10.8	do.	C,W	D,S	Concrete curb; steel casing. Reported never fails in drought.
348	3	do.	Cf,& G,-	D,S	Sink 60 feet deep. Spring flowing 50 gallons a minute reported 45 feet below surface. Reported
349	28.9	Oct. 27, 1936	C,W	D,S	Dug well. Brick casing. never fails in drought. Reported never fails in drought.
352	31	<u>d/</u>	C,W	S	Steel casing. Reported never fails in drought.
355	22.6	Jan. 6, 1937	C,W	D,S	Dug well. Rock curbing and casing. Reported never fails in drought.
356	25.1	Nov. 18, 1936	C,W	D,S	Dug well. Concrete curb; brick casing. Reported never fails in drought.
259	52.8	Oct. 20, 1936	C,W	D,S	Dug well. Rock casing. Reported never fails in drought.
360	28.2	Nov. 18, 1936	C,H	N	5 feet galvanized steel casing at top. Reported never fails in drought.
361	33.9	do.	C,W	D,S	Dug well. Brick casing. Reported never fails in drought.
362	37.9	do.	B,H	D,S	Dug well. Concrete curb and casing. Reported never fails in drought.
363	44.4	do.	C,W	D,S	Dug well. Rock curb and casing. Reported never fails in drought.
364	36	Oct. 10, 1936	C,W	D,S, I	Dug well. Concrete curb. Reported never fails in drought.
365	Flows	Nov. 11, 1936	None	D,S	Estimated flow, 15 gallons a minute from 3 openings in gravel bed. Reported never fails in drought.
367	36.3	Oct. 10, 1936	C,W	D,S	Dug well. Brick casing. Reported never fails in drought.
368	26.1	do.	C,W	D,S	Dug well. Reported never fails in drought.
372	76	Oct. 26, 1936	C,W	S	500 feet steel casing at top. Water reported from sandstone at 200 and 510 feet. Reported never fails
373	17.9	Dec. 4, 1936	C,W	S	Steel casing. Reported never fails in drought. in drought.

Records of wells and springs in Comal County--Continued

No.	Distance from New Braunfels	Survey	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
374	4 miles southwest	John Thompson	Gus Reinartz	--	--	500	6	0.9
375	4½ miles southwest	do.	F.A.Burket	--	Old	450	6	0.6
377	5 miles southwest	do.	Otto Timmermann Loan Co.	--	1924	498	6	0
378	4 miles southwest	do.	J.A.Wetz	--	Old	542	6	1.4

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

b/ A, air-lift; B, bucket; C, cylinder; Cf, centrifugal; G, gasoline engine; H, hand; P, public supply; W, windmill; number indicates horsepower.

Emil J. Michal, Project Superintendent

No.	Water Level		Pump and power <u>b/</u>	Use of water <u>c/</u>	Remarks
	Depth below measuring point (feet)	Date of measurement			
374	30.7	Dec. 4, 1936	C,W	S	Steel casing. Reported never fails in drought.
375	93.3	Oct. 26, 1936	C,W	S	Do.
377	52.3	Jan. 6, 1937	C,W	S	450 feet steel casing at top. Reported never fails in drought.
378	114.1	do.	C,W	D,S	Steel casing. Reported never fails in drought.

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

d/ Water level reported.

e/ No water sample collected for analysis.

Logs of test wells drilled by W. P. A. labor in Comal County, Texas  
(Samples examined and classified by Emil J. Michal, Project Superintendent.)

Well 228

Junction of county roads, Edward Hernandez Survey 454, 4 1/2 miles west of New Braunfels.

	Thickness (feet)	Depth (feet)
Red clay and large gravel-	1	1
Limestone-	4	5
No water sample collected. Jan. 25, 1937.		

Well 235

County road, Heirs of Jacob Steubing Survey 825, 9 miles west of New Braunfels.

Red clay and large gravel-	7	7
No water sample collected. Jan. 21, 1937.		

Well 257

County road, George Ullrich Survey 392, 6 miles west of New Braunfels.

Black topsoil-	1	1
White chalk-	1	2
Grayish-yellow clay-	14	16
Yellow clay and gravel - - -	2	18
No water sample collected. Jan. 18, 1937.		

Well 263

Junction of county roads, Lewis Salinas Survey 458, 3 1/2 miles west of New Braunfels.

Red clay - - - - -	2	2
Limestone- - - - -	2	4
No water sample collected. Jan. 25, 1937.		

Well 267

County road, Juan de Veramendi Survey, 3 miles north of New Braunfels.

Topsoil- - - - -	2	2
Yellowish-brown clay - - - -	4	6
Rock - - - - -	4	10
No water sample collected. Nov. 3, 1936.		

Well 286

Twenty yards north of highway, near junction of highway and county road, Orrilla Russell Survey 2, 5 miles northeast of New Braunfels.

Black topsoil- - - - -	1	1
Topsoil and gravel - - - - -	2	3
Chalk- - - - -	4	7
Gravel and yellow clay - - - -	4	11
Yellow clay and chalk- - - - -	16	27
No water sample collected. Oct. 22, 1936.		

Well 290

County road, Juan Martin de Veramendi Survey, 2 1/2 miles north of New Braunfels.

Whitish-yellow sand and gravel - - - - -	5	5
Yellow clay, sand and gravel	5	10
Yellow clay and gravel - - -	5	15

Well 290--Continued

	Thickness (feet)	Depth (feet)
Bluish-gray clay - - - - -	1	16
Yellow clay and sand - - -	1	17
Reddish-yellow clay and gravel - - - - -	11	28
Gray sand- - - - -	1	29
Yellow clay and gravel - -	2	31
Red clay - - - - -	4	35
Struck water at 33 feet.		
Water level, 32.7 feet below top of ground, 1/4 hour after hole completed.		
No water sample collected. Nov. 2, 1936.		

Well 301

Junction of county roads, F. Rodriguez Survey 99, 6 miles southwest of New Braunfels.

Black topsoil- - - - -	7	7
Yellowish-brown clay, black topsoil, and gravel - -	3	10
Struck water at 9.8 feet.		
Water level, 8.3 feet below top of ground, 1/4 hour after hole completed.		
Water sample collected. Dec. 16, 1936.		

Well 302

County road, F. Rodriguez Survey 99, 5 1/2 miles southwest of New Braunfels.

Black topsoil- - - - -	10	10
Yellowish-brown clay, black topsoil, and gravel - -	1	11
Struck water at 11 feet.		
Water level, 7.3 feet below top of ground, 1/4 hour after hole completed.		
Water sample collected. Dec. 18, 1936.		

Well 303

County road, F. Rodriguez Survey 99, 5 1/2 miles southwest of New Braunfels.

Black topsoil- - - - -	8	8
Black topsoil and gravel -	2	10
Struck water at 8 feet.		
Water level, 8 feet below top of ground, 2 minutes after hole completed.		
Water sample collected. Dec. 18, 1936.		

Well 310

County road, John Nelson Survey 97, 9 1/2 miles southwest of New Braunfels.

Grayish-black topsoil- - -	3	3
Light yellow clay streaked with bright yellow- - -	14	17
Yellow clay and gravel - -	1	18
No water sample collected. Jan. 11, 1937.		

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

Well 324

County road, V. Bennett Survey 100, 8 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Gray clay and gravel - - - -	2	2
Laminated light orange and yellow clay - - - - -	4	6
Yellow clay and gravel - - -	5	11
No water sample collected. Jan. 11, 1937.		

Well 331

County road, F. Rodriguez Survey 99, 6 miles southwest of New Braunfels:

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	3	3
Grayish-yellow clay - - - -	2	5
Reddish-yellow clay and gravel - - - - -	11	16
No water sample collected. Jan. 19, 1937.		

Well 334

County road, F. Rodriguez Survey 99, 6 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	2	2
Grayish clay - - - - -	9	11
Light yellow clay, chalk, and gravel - - - - -	2	13
Light yellow clay - - - - -	3	16
Light yellow clay and gravel	2	18
No water sample collected. Jan. 7, 1937.		

Well 335

Road junction, F. Rodriguez Survey 99, 5 1/2 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	4	4
Black topsoil and gravel - -	2	6
Brownish-yellow clay - - - -	7	13
Light yellow clay and gravel	4	17
Light yellow clay - - - - -	1 1/2	18 1/2
Light yellow clay - - - - -	1 1/2	20
Struck water at 18 1/2 feet.		
Water level, 16.9 feet below top of ground.		
4 hours after hole completed. No water sample collected. Dec. 16, 1936.		

Well 340

County road, Juan de Veramendi Survey, 11 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	4	4
Yellow clay - - - - -	3	7
Reddish-yellow clay - - - -	2	9
Light yellow clay and gravel	2	11
Grayish-brown clay and gravel	4	15
Light yellow clay and sand-	6	21
Blue clay - - - - -	8	29
No water sample collected. Nov. 16, 1936.		

Well 345

County road, Juan Martin de Veramendi Survey, 5 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	3	3
Light yellow clay and black topsoil - - - - -	3	6
Brownish-yellow clay - - - -	7	13
Iron-stained chalk - - - - -	2	15
Light yellow clay and light gray soapstone - - - - -	7	22
Light yellow clay - - - - -	6	28
Yellow clay and iron-stained sand - - - - -	1	29
Light yellow clay and gray soapstone - - - - -	6	35
Blue clay - - - - -	1	36
Yellow clay - - - - -	1	37
Blue clay - - - - -	3	40
Blue and yellow clay - - - -	1	41
Blue clay - - - - -	30	71
No water sample collected. Nov. 17, 1936.		

Well 350

County road, Juan Martin de Veramendi Survey, 1 mile southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	2	2
Reddish-yellow clay and small gravel - - - - -	3	5
Reddish-yellow sand and clay	16	21
Yellow sand and gravel - - -	5	26
Yellow clay and gravel - - -	2	28
Gravel - - - - -	1	29
No water sample collected. Dec. 21, 1936.		

Well 351

County road, Juan Martin de Veramendi Survey, 1 mile southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	3	3
Yellow clay and gravel - - -	2	5
Yellow clay and sand - - - -	15	20
Yellowish-brown clay and gravel - - - - -	3	23
Gravel - - - - -	1/2	23 1/2
No water sample collected. Dec. 21, 1936.		

Well 353

County road, A. M. Esnaurizar Survey, 1 1/2 miles east of New Braunfels.

	Thickness (feet)	Depth (feet)
Yellow clay and black topsoil - - - - -	1	1
Yellow clay - - - - -	3	4
Yellow sand - - - - -	3	7
Yellow sand and gravel - - -	9	16
No water sample collected. Jan. 7, 1937.		

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

Well 354  
County road, A. M. Esnaurizar Survey, 1 1/2 miles east of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil- - - - -	7	7
Gray sand- - - - -	2	9
Reddish-yellow sand- - - - -	4	13
Reddish-yellow sand and gravel	7	20
No water sample collected. Jan. 6, 1937.		

Well 357  
50 yards north of highway, at junction of highway and county road, A. M. Esnaurizar Survey, 2 1/2 miles east of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil- - - - -	4	4
Yellow clay- - - - -	5	9
Yellow clay and sand - - - -	17	26
Gray soapstone - - - - -	10	36
Yellow clay and chalk- - - -	5	41
Yellow sand- - - - -	1	42
Sandstone- - - - -	1/2	42 1/2
Struck water at 42 feet.		
Water level, 40 feet below top of ground, 1/2 hour after hole completed.		
Water sample collected. Oct. 20, 1936.		

Well 358  
County road, Henry Foster Survey 34, 2 1/2 miles east of New Braunfels.

	Thickness (feet)	Depth (feet)
Topsoil- - - - -	2	2
Yellow sand and small gravel	4	6
Yellow sand- - - - -	10	16
Yellow sand and clay - - - -	2	18
Reddish-yellow clay and gravel	5	23
Grayish-yellow clay- - - - -	1	24
No water sample collected. Nov. 5, 1936.		

Well 366  
River bottom, 100 yards north of highway intersection, A. M. Esnaurizar Survey, 2 1/2 miles east of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil- - - - -	4	4
Black topsoil and pink gravel	1	5
Pinkish-yellow clay and chalk	4	9
Yellow clay and gravel - - - -	2	11
Gravel and caliche - - - - -	5	16
Rock - - - - -	1/2	16 1/2
No water sample collected. Oct. 10, 1936.		

Well 369  
Road junction, John Thompson Survey, 1 1/2 miles south of New Braunfels.

	Thickness (feet)	Depth (feet)
Topsoil- - - - -	3	3
Yellow clay and gravel - - - -	9	12
Rock - - - - -	1	13
No water sample collected. Oct. 28, 1936.		

Well 370  
County road, John Thompson Survey, 2 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	4	4
Gray and yellow clay- - - - -	3	7
Yellow clay and soapstone - - - -	7	14
Yellow clay - - - - -	1	15
Soapstone and yellow clay - - - -	2	17
Gray soapstone- - - - -	2	19
Yellow clay and soapstone - - - -	5	24
Soapstone, yellow clay, and fine sand - - - - -	6	30
Yellow clay - - - - -	4	34
Bluish-gray soapstone - - - - -	1	35
Yellow clay - - - - -	1	36
Yellow clay and mica- - - - -	1	37
Yellow clay and sand- - - - -	1	38
Yellow clay and bluish-gray soapstone - - - - -	1	39
Yellow clay and sand- - - - -	1	40
Bluish-gray seapstone - - - - -	1	41
Yellow clay and sand- - - - -	1	42
Bluish-gray soapstone - - - - -	3	45
Struck water at 45 feet.		
Water level, 43.4 feet below top of ground, 2 hours after hole completed.		
Water sample collected. Nov. 16, 1936.		

Well 371  
County road, John Thompson Survey, 3 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	3	3
Grayish sand and clay - - - - -	4	7
Yellow clay and sand- - - - -	4	11
Grayish clay- - - - -	2	13
Light yellow clay - - - - -	1	14
Grayish-yellow clay - - - - -	13	27
Light yellow clay - - - - -	2	29
Light gray clay and yellow sand- - - - -	1	30
Light gray clay - - - - -	1	31
Light gray clay and bluish soapstone - - - - -	2	33
Light yellow clay - - - - -	1	34
Struck water at 33 feet.		
Water level, 29.2 feet below top of ground, 3 hours after hole completed.		
Water sample collected. Nov. 16, 1936.		

Well 376  
County road, John Thompson Survey, 4 1/2 miles southwest of New Braunfels.

	Thickness (feet)	Depth (feet)
Black topsoil - - - - -	3	3
Black topsoil, yellow clay and gravel- - - - -	2	5
Yellow clay, chalk and gravel	4	9

(Continued on next page.)

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

Well 376--Continued

	Thickness (feet)	Depth (feet)
Light yellow clay and gravel- - - - -	1	10
Yellow clay and ferrous sand	1	11
Light yellow clay and soap- stone - - - - -	3	14
Orange clay and sand- - - -	1	15
Yellow clay and soapstone -	11	26
Yellow clay - - - - -	2	28
Struck water at 27½ feet.		
Water level, 27 feet below top of ground, 1 hour after hole completed.		
Water sample collected, Nov. 17, 1936,		



Partial analyses of water from wells in Comal County, Texas

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

Well 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	C.L. Meserole	Spring	Nov. 13, 1936	251	76	17	-	290	a/	15	260
2	do.	217	do.	250	56	24	11	293	a/	15	237
3	do.	220	do.	227	-	-	-	250	a/	14	-
4	E. Kaderli	250	do.	89	-	-	-	85	a/	12	-
5	Emil Doell	300	Dec. 31, 1936	166	-	-	-	134	12	25	-
6	H. Fisher	327	Nov. 4, 1936	178	-	-	-	146	20	19	-
7	R.O. Fisher	Spring	do.	301	101	9	6	342	a/	17	291
8	W.O. Fischer	218	Dec. 31, 1936	293	-	-	-	323	a/	18	-
9	H. Pantermuehl	275	Nov. 4, 1936	276	-	-	-	244	39	13	-
12	Eugene E. Scheel	220	Dec. 8, 1936	290	-	-	-	195	71	19	-
13	Otto Truer	350	Dec. 4, 1936	389	60	57	-	230	114	35	385
14	do.	Spring	Dec. 12, 1936	177	41	9	15	159	16	18	140
15	Mrs. D. Hall	do.	Nov. 4, 1936	228	74	13	-	256	a/	15	238
16	C.D. Hall	240	do.	258	65	14	17	256	16	20	218
17	F. J. Peters	500	Dec. 31, 1936	295	32	42	22	275	42	22	251
18	Theo. Meyers	400	Dec. 8, 1936	431	63	55	21	378	83	23	384
19	J.C. Talley	325	do.	455	42	73	18	329	138	22	406
20	Mrs. Jennie B. Hickman Bell	80	do.	262	-	-	-	214	45	15	-
21	Chas. Pantermuehl	Spring	Dec. 31, 1936	187	30	21	13	189	16	14	163
22	do.	110	do.	223	55	24	-	256	a/	18	235
23	Max Linnartz	228	Nov. 3, 1936	446	68	49	27	329	103	37	370
24	Frank Guenther	169	Nov. 4, 1936	166	25	23	7	165	16	14	155
25	Geo. T. Spears	300	Nov. 11, 1936	176	46	10	10	183	a/	20	157
27	F. and R. Schaefer-koeter	Spring	Dec. 10, 1936	141	36	10	6	146	a/	17	132
28	Bert Specht	do.	do.	159	41	8	11	146	a/	27	135
30	Mrs. P.G. Remmler	184	Dec. 9, 1936	329	21	38	55	311	42	20	208
31	J.K. Baretta	280	do.	168	23	24	6	122	28	27	155
32	Mrs. J.W. Heard	100	do.	360	118	16	1	470	16	11	360

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Comal 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)
33	Claude Heard	120	Dec. 9, 1936	196	-	-	-	153	28	20	-
34	Ed. Kaderli	112	do.	193	27	24	14	183	20	18	165
35	A.H. Flugrath	Spring	Nov. 13, 1936	323	94	19	9	372	a/	18	312
37	W.A. Ellis	240	Dec. 15, 1936	335	-	-	-	329	26	18	-
38	do.	20	do.	154	-	-	-	146	a/	22	-
39	do.	50	do.	289	-	-	-	311	a/	22	-
40	Albert Pape	260	Nov. 13, 1936	338	-	-	-	372	a/	21	-
41	W.H. Haas	175	Dec. 31, 1936	144	-	-	-	92	20	26	-
42	Henry Pantermuehl	-	Nov. 4, 1936	1,557	-	-	-	317	870	41	-
43	Theo. Kraft	428	Nov. 3, 1936	504	72	57	32	378	138	19	412
44	Eugene Grein	250	Dec. 8, 1936	227	34	36	-	207	40	15	232
45	Walter Kaderli	170	Nov. 3, 1936	777	-	-	-	293	366	12	-
46	M. Leagling	Spring	Nov. 5, 1936	174	-	-	-	165	10	16	-
47	--	do.	Oct. 5, 1936	295	58	34	8	311	26	16	286
48	H.W. Kraft Estate	69	Nov. 11, 1936	218	-	-	-	232	a/	18	-
49	do.	Spring	Nov. 16, 1936	265	70	19	7	275	16	18	252
101	Bert Specht	212	Nov. 10, 1936	538	-	-	-	281	142	68	-
102	Ed. Gass	140	Dec. 9, 1936	174	-	-	-	116	26	27	-
103	Arno Knibbe	124	Dec. 10, 1936	437	168	19	-	317	47	47	497
104	G.W. Lyles	Spring	Nov. 20, 1936	121	26	12	6	122	a/	17	112
105	Erie Specht	75	do.	110	-	-	-	98	a/	19	-
106	do.	250	do.	105	20	12	5	92	a/	23	97
107	Wm. Neugebauer	163	do.	445	-	-	-	445	35	19	-
108	Arno Knibbe	225	Dec. 10, 1936	512	85	26	66	214	93	137	321
109	D.L. Knibbe	120	do.	340	-	-	-	183	103	28	-
110	do.	280	do.	1,348	71	71	325	171	237	560	469
111	Chas. Elbel	100	Dec. 9, 1936	190	-	-	-	165	16	21	-
113	Alfred Gass	175	Nov. 20, 1936	598	43	47	108	171	138	178	299
114	Harry Knibbe	Spring	do.	136	23	17	8	140	a/	19	125
115	William Specht	250	do.	248	52	42	-	159	35	41	301
116	Ed. Bartels	80	Dec. 10, 1936	336	-	-	-	323	28	20	-
117	Alfred Beierle	157	Nov. 20, 1936	148	11	1	50	134	a/	20	30
118	Henry Jcnas Estate	108	Jan. 26, 1936	323	-	-	-	250	24	54	-
119	John Stricker	250	Nov. 19, 1936	230	51	25	6	268	a/	16	230

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Comal 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)
120	S.L. Gill	280	Nov.16,1936	339	115	9	8	403	a/	9	326
121	Wm. Gast	115	Nov.27,1936	102	-	-	-	92	a/	17	-
122	Erie Specht	200	do.	394	27	44	60	262	71	63	247
123	Fred Wehe	350	Nov.21,1936	237	70	20	-	98	35	64	257
124	Ed. Knebel	210	Nov.16,1936	194	-	-	-	195	a/	22	-
125	Otto Erben	450	Nov. 2,1936	203	-	-	-	220	a/	15	-
126	Julius Bremer	185	Nov.25,1936	302	54	49	-	372	a/	16	335
128	A.J. Walser	264	Nov. 2,1936	224	-	-	-	183	24	26	-
130	R.P. Holt	620	Dec.11,1936	2,608	346	201	179	232	1,642	126	1,689
131	J.J. Arrechea	300	Nov.16,1936	214	66	7	10	244	a/	11	198
132	A.P. Scheel	350	Dec. 7,1936	293	83	23	1	342	a/	18	194
133	Eugene V. Scheel	280	do.	131	-	-	-	122	a/	20	-
134	E.A. Moos	96	do.	391	-	-	-	415	12	22	-
135	John Kunc	300	Dec.23,1936	318	-	-	-	336	16	13	-
136	Mrs. Emma Saur	218	do.	222	-	-	-	226	12	13	-
137	Guy S. McFarland	300	do.	261	51	24	18	275	20	13	225
138	Bruno Klar	25	do.	313	-	-	-	354	a/	15	-
139	Joseph Offer	200	do.	357	85	26	17	366	32	17	321
140	F. Neugebauer	300	Dec. 7,1936	158	19	23	10	159	12	16	144
141	George Bros.	216	Dec.12,1936	328	-	-	-	354	8	17	-
142	Mrs. C.L. Ellsworth	217	do.	151	-	-	-	134	16	12	-
143	August Scholz Est.	236	Nov.30,1936	165	-	-	-	177	a/	13	-
144	do.	265	do.	226	32	31	12	238	20	14	209
145	Mrs. Chas. Erben	235	Dec. 7,1936	200	-	-	-	171	26	15	-
146	E.A. Laubach	400	do.	164	24	26	3	171	12	15	166
147	do.	25	do.	139	-	-	-	92	24	19	-
148	August Scheel	15	do.	385	-	-	-	390	24	20	-
149	do.	318	do.	360	-	-	-	342	28	26	-
150	Mrs. Louise Hill	480	Nov.21,1936	173	45	18	-	85	24	44	186
151	O. Wehe	350	Nov.27,1936	142	12	18	21	153	a/	16	101
152	do.	110	do.	112	-	-	-	110	a/	14	-
153	J.A. Laubach	60	do.	298	-	-	-	232	28	44	-
154	do.	25	do.	217	-	-	-	238	a/	14	-
155	George Fronne	145	Dec.10,1936	263	-	-	-	220	32	24	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Comal 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)
156	Gus Weidner	360	Dec.11,1936	200	62	18	-	220	a/	12	232
156a	Robert Bose	465	do.	287	13	24	68	268	36	14	130
156b	do.	Spring	do.	204	48	12	14	159	16	36	167
157	O.R. McKinney	635	do.	314	77	24	12	336	24	12	290
158	W.F. Sumbling	383	Jan.26,1936	368	52	57	8	378	53	12	365
159	O.A. Doepenschmidt	615	Nov. 2,1936	742	151	62	11	366	323	15	633
161	do.	-	do.	394	-	-	-	390	28	22	-
162	do.	350	Jan. 2,1936	400	72	49	12	390	55	20	380
164	B. Stapper	480	Nov. 2,1936	634	98	75	7	287	299	14	551
165	Ed. Adam	24	Dec.11,1936	262	-	-	-	293	a/	14	-
166	do.	600	do.	481	97	45	10	329	150	17	428
167	Clemens Scholz	245	do.	219	18	36	16	220	28	13	192
168	Julius Bose	348	do.	138	30	13	7	146	a/	16	128
169	Ben Bose	348	do.	235	69	17	1	268	a/	16	240
170	Erwin Schneider	414	Dec.15,1936	312	-	-	-	281	36	20	-
171	Mrs. Mattie Shelburne	248	Nov.16,1936	302	-	-	-	342	a/	14	-
172	V.F. Moos	320	Nov.27,1936	281	78	13	14	293	20	12	248
173	Edgar Bremer	100	Nov.21,1936	111	-	-	-	98	a/	20	-
174	Mrs. M.K. Holman	30	Nov.30,1936	113	-	-	-	110	a/	15	-
175	do.	315	do.	240	36	30	13	226	36	14	213
176	do.	Spring	do.	265	86	10	6	305	a/	13	256
177	L.T. Jones	300	do.	334	-	-	-	336	24	16	-
178	H. Laubach	700	do.	486	39	71	26	226	209	30	389
179	W.O. Stahl	308	Nov.27,1936	176	-	-	-	153	16	18	-
180	Philip Lux	348	do.	277	89	17	-	305	a/	21	290
182	August Scholz	336	do.	278	74	21	3	244	19	41	272
183	August Wehe	375	Nov.12,1936	357	-	-	-	305	39	33	-
184	Chas. Willig	300	do.	584	91	72	15	421	185	14	524
185	Herman Scholz	320	Dec.15,1936	169	-	-	-	140	24	13	-
186	Mrs. Emilie Stahl	450	do.	574	117	46	19	348	195	26	484
188	Adam Meyer	90	Nov.15,1936	348	144	4	-	268	a/	68	378
189	Otto Hitzfelder	15	Nov.11,1936	180	-	-	-	171	12	15	-
190	do.	Spring	Nov.15,1936	297	95	10	9	342	a/	15	281
191	do.	381	Nov.12,1936	911	-	-	-	67	590	13	-
192	W.B. Ethridge	Spring	do.	143	51	10	-	159	a/	4	171

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Comal 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)
193	W.B. Ethridge	200	Nov.12,1936	1,277	-	-	-	299	716	11	-
194	Wm. Zeucher	535	do.	593	122	48	10	293	260	9	501
195	Robert Heimer	178	Nov. 2,1936	230	58	23	2	281	a/	9	239
201	C.B. Crawford	300	Nov. 3,1936	303	-	-	-	305	24	12	-
202	H. Kanc	50	Nov. 4,1936	310	-	-	-	342	a/	19	-
203	H.A. Conrad	Spring	Nov. 5,1936	172	27	26	5	201	a/	15	176
204	Herman Conrads	180	Jan.26,1936	414	-	-	-	384	28	38	-
205	Ed. Haag	475	Oct.28,1936	323	-	-	-	366	a/	15	-
206	A.I. Kabelmacher	475	Nov. 9,1936	222	-	-	-	189	35	11	-
207	Ed. Reeh	325	Dec. 1,1936	49	-	-	-	12	a/	25	-
209	do.	390	do.	142	-	-	-	153	a/	11	-
210	George Gesche	320	Nov. 9,1936	239	59	17	14	281	a/	11	215
211	Otto Ohlrich	350	do.	741	212	29	-	329	295	43	648
212	E. Herbst	425	Jan.25,1937	264	56	30	5	287	18	14	263
213	B. Bochers	402	Nov. 2,1936	183	-	-	-	183	a/	21	-
214	Paul Dietz	300	Nov. 5,1936	237	62	31	-	293	a/	10	259
215	Jerome Schumann	365	Jan.18,1936	261	64	28	2	317	a/	11	272
216	Alvin Jahns	300	do.	195	48	21	-	232	a/	12	208
217	H.D. Stronberg	Spring	Nov. 5,1936	232	45	25	13	275	a/	14	216
219	E.T. Lackey	500	Nov. 3,1936	234	64	19	3	281	a/	10	237
220	Albert Pfeuffer	400	do.	279	83	18	3	329	a/	13	281
221	Albert Simon	186	Dec.21,1936	286	-	-	-	305	12	12	-
222	Wm. Kraft	190	Oct.28,1936	266	83	15	-	268	12	24	270
223	Albert Kraft	320	Dec.21,1936	206	-	-	-	207	12	12	-
224	Herman Kraft	256	do.	291	-	-	-	311	12	12	-
225	W.H. Harborth Est.	265	Oct.28,1936	421	86	20	35	207	130	48	298
226	Henry Heise	290	Dec.21,1936	304	91	16	6	336	12	14	295
227	H. Borchers	300	Oct.28,1936	228	69	18	-	256	a/	15	246
229	Edward Nowotny	325	Dec.22,1936	240	59	16	12	250	16	14	215
230	H. Doehne	1000	Jan.18,1937	180	35	15	13	171	20	13	150
231	Gus Vogel	325	Dec.22,1936	285	85	18	1	311	16	12	286
232	A.J. Caldwell	250	Jan.25,1936	296	94	11	4	281	22	27	282
233	Richard Gesche	313	Dec.16,1936	345	141	9	-	329	a/	33	391
234	Otto Ohlrich	265	Nov. 9,1936	298	-	-	-	348	a/	8	-

a/ Sulphate less than 10 parts per million.

Partial analyses of water from wells in Comal 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)
236	-	-	Jan. 21, 1936	377	-	-	-	262	32	75	-
237	Eugene Krause	275	Oct. 26, 1936	130	34	6	5	79	31	15	108
239	Mrs. H. Hedwig	45	Nov. 24, 1936	557	291	9	-	55	71	159	766
246	H. Blank	340	do.	257	-	-	-	293	a/	11	-
242	Lavine Hoffman	-	Dec. 17, 1936	143	-	-	-	159	a/	8	-
243	Edwin Gerhardt	326	Feb. 17, 1936	241	-	-	-	275	a/	10	-
244	Linnie Binseil	240	do.	243	-	-	-	281	a/	8	-
245	Lavine Hoffman	-	do.	136	-	-	-	146	a/	10	-
246	Henry Schmidt	50	do.	207	93	2	-	146	8	32	241
247	Henry Simeon	200	do.	266	83	17	-	293	8	14	275
248	A.B. Burkhardt	250	Oct. 26, 1936	278	-	-	-	299	12	10	-
249	Edgar Burkhardt	180	Nov. 24, 1936	265	-	-	-	293	a/	16	-
250	Glen Wilson	-	Dec. 19, 1936	448	-	-	-	323	75	49	-
251	Schaeffer Bros., et al.	275	Dec. 18, 1936	318	118	7	-	372	a/	10	324
252	Herman Vogel	300	Jan. 21, 1936	235	80	7	3	244	a/	25	229
253	C. Kreusler	300	Nov. 24, 1936	198	-	-	-	214	a/	15	-
254	Erwin Voigt	375	Jan. 21, 1936	329	111	10	6	390	a/	10	320
255	Carl Kreusler	330	do.	280	119	8	-	73	51	66	305
256	Mrs. Wm. Hillert	390	Nov. 9, 1936	212	-	-	-	238	a/	11	-
258	Fritz Kunkle	90	Oct. 27, 1936	516	-	-	-	500	35	36	-
259	do.	420	do.	331	81	24	13	317	31	26	300
260	Emil Deitz	450	Dec. 22, 1936	253	47	26	13	244	32	15	226
261	O.C. Brehmer	304	Dec. 1, 1936	139	-	-	-	116	a/	28	-
262	Ed. Heidrich	335	Oct. 27, 1936	120	35	8	1	122	a/	16	120
265	R.R. Coreth	290	Dec. 16, 1936	304	-	-	-	311	20	13	-
268	C.A. Conring	175	Oct. 22, 1936	162	33	17	6	153	16	15	150
269	Jack Kretzmair	168	do.	303	82	19	10	317	20	16	282
270	Alvin Kraft	138	Oct. 21, 1936	253	60	19	12	256	20	16	227
271	Robert Raabe	140	Dec. 30, 1936	309	-	-	-	293	30	17	-
272	Bruno Raabe	-	do.	303	-	-	-	293	26	17	-
273	C. Conrad	145	Oct. 20, 1936	319	73	25	15	311	35	18	285
274	Chas. Soechting	Est. 210	Jan. 5, 1936	714	-	-	-	354	213	78	-
275	Erich Rosenthal	230	Jan. 5, 1936	380	76	21	38	305	65	30	278

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Partial analyses of water from wells in Comal 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)
277	Chris. Rosenthal	212	Jan. 5, 1936	310	-	-	-	287	32	19	-
278	Nancy Gruene	160	Oct. 20, 1936	856	112	59	98	159	307	202	521
279	Wm. Posey	160	Oct. 21, 1936	697	79	55	94	311	197	119	424
280	Hilmer Doehne	250	Jan. 5, 1937	564	-	-	-	268	162	73	-
281	Travis H. Tate	152	Jan. 6, 1937	573	99	37	58	305	130	99	398
282	Phoenix Life Ins. Co.	145	Oct. 21, 1936	648	111	32	77	275	169	124	410
283	Emil Pruesser	330	Jan. 5, 1936	981	24	29	289	201	326	214	178
284	Carl Kutscher Est.	50	Oct. 21, 1936	680	-	-	-	458	98	106	-
285	H. Mittendorf	32	do.	228	78	6	5	256	a/	13	218
287	Arthur Bartels	65	Oct. 22, 1936	352	-	-	-	256	a/	91	-
288	Ivan Wallhoefer	Spring	Dec. 30, 1936	260	94	7	-	232	24	21	264
289	Wm. D. Wiemers	80	do.	287	68	15	21	268	32	19	234
291	Oscar Priess	65	Oct. 21, 1936	286	-	-	-	268	28	17	-
292	Johanna Baetde	85	Oct. 28, 1936	273	-	-	-	305	a/	15	-
293	H.M. Landa	-	Jan. 6, 1936	265	-	-	-	244	28	16	-
294	City of New Braunfels	Spring	Oct. 27, 1936	253	56	19	15	244	26	17	219
295	Mrs. Meta Penshorn	25	Dec. 22, 1936	285	-	-	-	268	28	16	-
296	Max Aftgelt	345	Dec. 4, 1936	203	-	-	-	128	47	20	-
297	U.S. Gypsum Co.	125	do.	262	50	18	25	244	32	17	202
298	R.R. Coreth	275	Dec. 16, 1936	288	99	9	3	336	a/	12	286
299	Wm. Fey	89	Dec. 5, 1936	169	-	-	-	183	a/	12	-
300	Roland Welsch	372	Dec. 4, 1936	314	49	25	37	281	43	22	226
301	W.P.A. test well	10	Dec. 16, 1936	985	-	-	-	525	299	84	-
302	do.	11	Dec. 18, 1936	451	-	-	-	476	35	7	-
303	do.	10	do.	634	-	-	-	226	220	88	-
304	Carl Krueger	300	Dec. 16, 1936	319	-	-	-	244	45	35	-
305	Joseph Friesenhahn	360	Dec. 18, 1936	412	-	-	-	200	103	55	-
306	Oscar Jonas	360	do.	296	-	-	-	281	26	19	-
307	Adolph Mueller	160	do.	181	-	-	-	140	26	19	-
308	Wesley Hierholzer	117	Dec. 19, 1936	344	88	13	64	311	12	14	273
309	Ben Elley	125	do.	256	79	14	4	299	a/	12	254
311	Robert Hierholzer	130	do.	193	-	-	-	189	16	10	-
312	O. K. Klaerner	109	Oct. 26, 1936	260	-	-	-	293	a/	13	-

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Partial analyses of water from wells in Comal 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)
313	R.P. Schneider	192	Oct.26,1936	278	60	12	33	250	20	30	197
314	A.C. Riedel	225	Dec.17,1936	336	-	-	-	232	49	49	-
315	do.	306	do.	321	85	15	16	281	40	27	275
316	Joe Gleitz	310	Dec.12,1936	298	-	-	-	232	42	31	-
317	do.	200	do.	225	-	-	-	165	39	22	-
318	Wm. Tonne	476	Nov.24,1936	194	30	19	14	122	51	20	152
319	Joe Vogel	350	Dec. 3,1936	617	72	57	85	439	63	124	416
320	J.C. Stigall	400	Nov.24,1936	305	102	7	3	232	31	48	284
322	Valentine Schwab	38	Dec.16,1936	604	91	22	106	390	118	75	319
323	Albert Rechner	130	Dec. 1,1936	547	-	-	-	85	170	151	-
325	Bruno Schwab	150	Dec.18,1936	368	-	-	-	287	40	49	-
326	Wm. Schaeffer	300	Dec. 3,1936	233	33	28	16	195	32	28	198
327	L.E. Kneupper	84	Oct.26,1936	376	-	-	-	241	71	48	-
328	Alvin Schaeffer	360	Dec.16,1936	758	58	66	136	360	99	222	416
329	Gus Klaenner	131	Dec. 4,1936	2,220	-	-	-	123	908	530	-
330	Ed. Solm	300	Dec. 3,1936	348	12	19	100	275	47	35	107
332	Ben Jahm	395	Dec.18,1936	1,020	82	75	190	378	197	290	512
333	O. Panshorn	428	Dec. 3,1936	2,081	339	84	223	79	971	425	1,192
336	A.W. Feick	700	Oct.26,1936	425	58	36	54	293	47	86	292
337	Wm. Stratemann	-	Jan. 6,1936	1,576	-	-	-	226	375	550	-
338	do.	-	do.	1,341	363	72	27	366	59	640	1,204
339	Otto Reinartz	465	Dec. 3,1936	101	29	2	9	110	a/	7	81
341	Otto Feick	200	Dec. 4,1936	371	-	-	-	329	44	25	-
342	W.E.F. Eilers	240	Oct.27,1936	302	11	24	78	299	24	18	125
343	Otto Feick	91	Dec. 4,1936	174	-	-	-	128	32	15	-
344	A. Triesch	90	Nov. 9,1936	608	-	-	-	268	181	84	-
346	A.H. Werner	148	do.	553	-	-	-	329	130	63	-
347	Theo. Doerr	503	do.	368	27	38	57	220	75	63	224
348	Henry Moeller & Co.	Spring	do.	270	-	-	-	171	71	19	-
349	Max Walther	31	Oct.27,1936	329	-	-	-	323	24	19	-
352	Erwin Soefje	427	Jan. 6,1936	3,852	334	209	701	207	1,306	1,200	1,694
355	Ad. Tausch	-	do.	281	-	-	-	262	32	13	-
356	Fritz Neuse	24	Nov.18,1936	234	-	-	-	268	a/	9	-
357	W.P.A. test well	42	Oct.20,1936	409	-	-	-	244	98	45	-

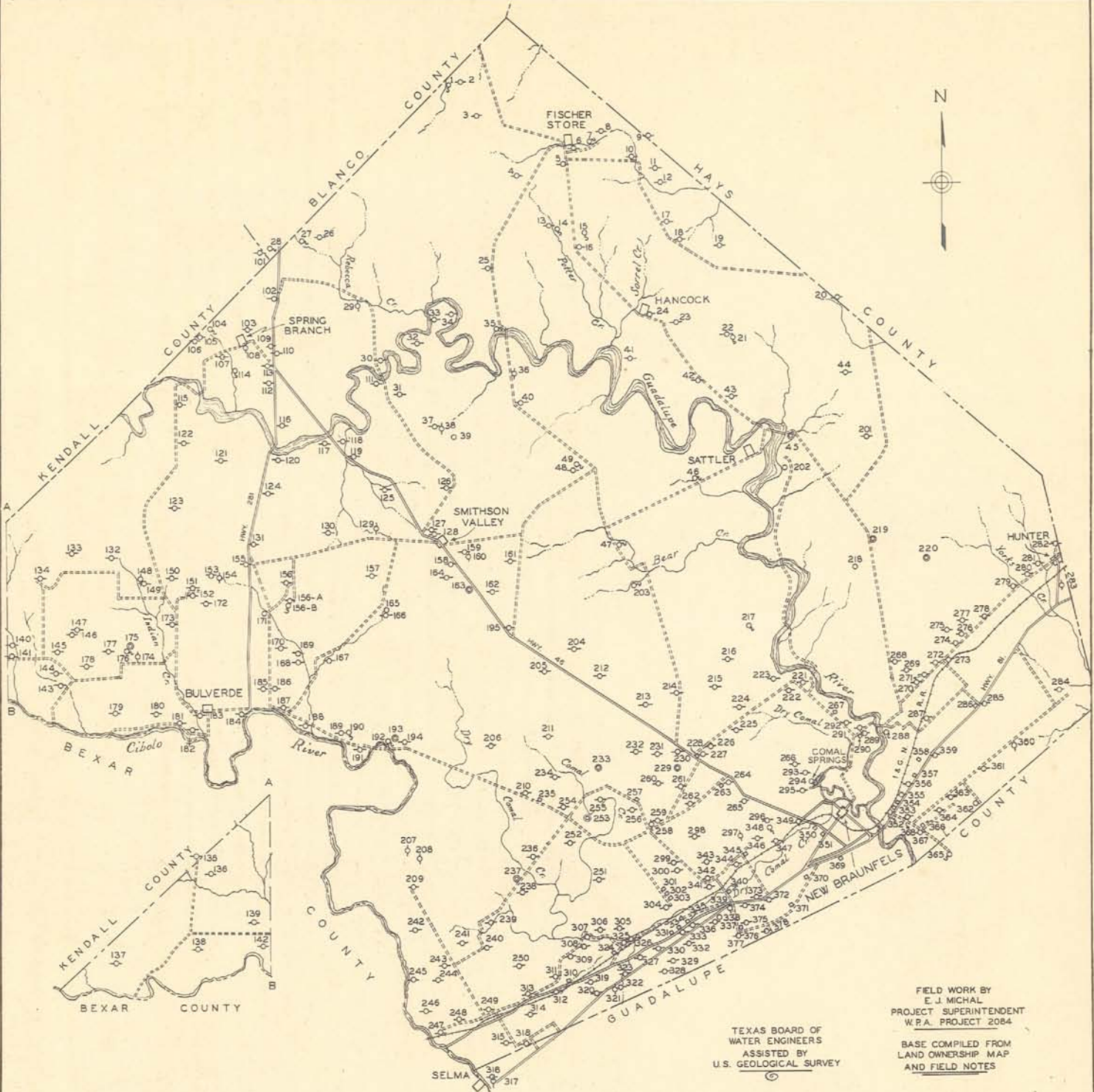
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Partial analyses of water from wells in Comal County--Continued  
Results are in parts per million.

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)
359	Albert Soefje	57	Oct.20,1936	386	-	-	-	403	a/	36	-
360	K. Kickeritz	36	Nov.18,1936	792	132	33	104	354	248	101	460
361	Emma Rose	32	do.	519	-	-	-	268	59	138	-
362	R. Kraft	40	do.	239	-	-	-	250	a/	22	-
363	August Timmerman Sr.	50	do.	238	-	-	-	256	a/	18	-
364	E.W. Mueller	35	Oct.10,1936	163	-	-	-	134	a/	34	-
365	B. Bartles	Spring	Nov.11,1936	266	93	9	-	293	a/	20	271
367	Mrs. H. Oelkers	40	Oct.10,1936	257	-	-	-	250	a/	33	-
368	D. Werner	30	do.	291	106	6	-	244	35	24	288
370	W.P.A. test well	43	Nov.16,1936	9,410	781	500	1,780	232	2,905	3,330	4,004
371	do.	34	do.	4,802	-	-	-	110	1,759	1,420	-
372	Henry Voight	510	Nov.26,1936	1,148	119	72	194	354	287	302	594
373	L. Jentsch	485	Dec. 4,1936	1,647	114	107	322	207	422	580	726
374	Gus Reinarz	500	do.	1,983	156	117	387	281	505	680	872
375	F.A. Burket	450	Oct.26,1936	1,957	166	110	380	348	500	630	868
376	W.P.A. test well	27	Nov.17,1936	1,367	-	-	-	268	291	470	-
377	Otto Timmermann	498	Jan. 6,1936	2,300	236	136	390	293	574	820	1,148
378	J.A. Wetz	542	do.	1,019	132	33	193	348	245	245	466

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— EXPLANATION —

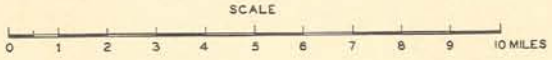
- WELL WITH HAND PUMP, BUCKET OR BAILER
- ◐ WELL WITH WINDMILL OR SMALL POWER PUMP
- ⊙ WELL WITH PUMPING PLANT - 5 HORSE POWER OR LARGER
- ◇ UNUSED WELL
- TEST WELL DRILLED BY W. P. A. LABOR
- ⊕ SPRING
- IMPROVED ROAD
- - - UNIMPROVED ROAD

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

FIELD WORK BY  
E. J. MICHAL  
PROJECT SUPERINTENDENT  
W. P. A. PROJECT 2084

BASE COMPILED FROM  
LAND OWNERSHIP MAP  
AND FIELD NOTES

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



*E. J. Michal*  
7-14-37