

MATAGORDA COUNTY, TEXAS

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

TEXAS STATE BOARD OF WATER ENGINEERS

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Department of the Interior, Geological Survey

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MATAGORDA COUNTY, TEXAS

By

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This publication contains records of 179 wells, drillers' logs of 40 wells, partial chemical analyses of water from 22 wells and tests of water from 125 wells in which the bicarbonate, chloride and hardness were determined. It also includes a map on which the wells listed in the tables are shown, each well being given a number on the map corresponding to the number assigned to it in the tables. Records of 79 wells were obtained in the fall of 1934 by T. W. Bridges. The remainder were obtained in the spring of 1943 by G. H. Cromack. The work both in 1934 and 1943, was carried out as a part of a statewide program of ground-water investigations by the Texas State Board of Water Engineers in cooperation with the United States Department of the Interior, Geological Survey. Tables containing the data obtained in 1934 were released in 1935 in the form of photostatic copies.

The water analyses were made by Margaret D. Foster, E. W. Lohr, W. W. Hastings and J. H. Rowley, chemists of the Quality of Water Division of the Federal Geological Survey. The results of the analyses, which relate only to the mineral constituents in the water, and not to its sanitary character, are tabulated in parts per million.

The publication should serve as a guide to landowners, officials of industrial plants, well drillers and others who need ground water information for different parts of Matagorda County. A limited number of copies are available for free distribution. They may be obtained by addressing a request to Mr. C. S. Clark, Chairman, Texas State Board of Water Engineers, 302 West 15th Street, Austin, Texas.

Records of wells in Matagorda County, Texas
(All wells are drilled or bored)

Well	Distance from Blessing	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
f/ 1	6 miles northwest	J. A. Malcek	R. Vaclavick	1925	36	--	--	--
2	5 miles north	D. S. Gilmore Est.	---	--	330±	--	--	--
3	4½ miles north	Southern Pacific Lines	J. W. Young	--	326	8	7.93 9.24	Sept. 10, 1934 Apr. 2, 1944
4	4½ miles north	J. B. Bures	Jim Williams	1910	55	--	--	--
5	7 miles north	W. T. Gunter	--	--	400±	--	--	--
6	9½ miles north	Hans T. Anderson	Hans T. Anderson	1922	32	1¼	--	--
7	9 miles northeast	J. W. Hawk	J. W. Hawk	1929	55	4	14.3	July 18, 1934
8	8 miles northwest	Wade Roberts	Otto Mickelson	1941	500±	24, 10	8.64	Apr. 20, 1943
9	7 miles northwest	Garrison	Layne-Bowler Co.	Old	450±	--	10.60	do.
10	6 miles northwest	Hanson and Strarup	Otto Mickelson	1940	465	24, 10	--	--
11	5 miles northwest	KJZT Lodge	Layne-Bowler Co.	Old	450±	10	15.43	Apr. 21, 1943
12	4¼ miles northwest	B. W. Trull	do.	Old	420±	10	--	--
13	5½ miles northwest	E. F. Gold	--	Old	--	4	6.69	Apr. 20, 1943
14	4 miles northwest	Will Melbourne	Henry Lane	1940	800±	2	+	Apr. 23, 1943
f/ 15	In Blessing	A. B. Pierce	L. A. Layne	1907	624	4	--	--
16	1 mile southwest	R. J. Vaclavick	R. J. Vaclavick	1929	42	4	13.40	Aug. 9, 1934
17	5 miles south	W. F. Harrison	--	--	440±	4	--	--
18	6 miles southeast	W. H. Stallard	R. M. Snodgrass	1928	732	2	+15.1	Sept. 1, 1934
19	do.	F. E. Stallard	do.	1928	632	2	+10.0	do.
20	4 miles north	J. B. Bures	--	Old	400±	--	10.39	Apr. 23, 1943
21	2½ miles northwest	C. J. Lubojasky	C. J. Lubojasky	1935	39	g/ 5½	34.5	1943
22	3½ miles northwest	B. W. Trull	Layne-Bowler Co.	Old	421	24, 10	12.89	Apr. 21, 1943

a/ Plus (+) indicates water level above measuring point.

b/ Pump: T, turbine; A air; Gl, gas; Cf, centrifugal; C, cylinder.
Power: E, electric; D, diesel engine; G, gasoline engine; W, windmill; H, hand.
Number indicates horse power.

c/ F, public supply; Ind, industrial; Irr, irrigation; RR, railroad; D, domestic; S, stock; N, not used.

Well	Method of lift b/	Use of water c/	CHEMICAL TESTS d/			Remarks
			Parts per million			
			Bicar- bonate (HCO ₃)	Chlo- ride (Cl)	Hardness e/	
1	C,H	D,S	532	28	-	
2	C,W	S	304	56	210	
3	None	N	336	70	230	Formerly supplied railroad locomotives.
4	C,W	D,S	434	188	600	
5	C,W	D,S	304	54	240	Said to have flowed until 1921.
6	C,W	D,S	480	190	310	
7	C,W	D,S	426	206	410	
8	T,G, 85	Irr	--	--	--	Irrigated 400 acres of rice in 1942.
9	T,-	N	--	--	--	Irrigated rice in 1942.
10	T,G, 70	Irr	392	154	--	Irrigated 400 acres of rice in 1942.
11	T,-	N	--	--	--	Irrigated rice in 1942.
12	T,-	N	--	--	--	Formerly irrigated rice.
13	C,W,H	S	--	--	--	
14	Flows	S	265	137	--	Twenty feet of screen reported at bottom. Measured yield 4 gallons a minute.
15	A,E, 3	P	285	38	--	Flow reported 90 gallons a minute in 1907. Supplies town of Blessing. See log.
16	C,W	D,S	458	218	330	
17	C,W	D,S	364	53	85	
18	Flows	D,S	376	82	25	Measured flow 12½ gallons a minute in 1934.
19	Flows	D,S	328	61	30	Measured flow 15 gallons a minute in 1934. Temperature 79° F.
20	T,-	N	--	--	--	Formerly irrigated rice.
21	C,W,H	D,S	436	96	--	Sand reported from 37 to 39 feet.
22	T,-	N	--	--	--	Formerly irrigated rice. See log.

d/ Made by Margaret D. Foster, E. W. Lohr, and W. W. Hastings.

e/ Determined.

f/ For analyses of water see table on page 30.

g/ Water level reported by driller or owner.

Records of wells in Matagorda County--Continued

Well	Distance from Blessing	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
23	3 miles northwest	Guy Stovall	--	Old	450 ³	24, 10	9.14	Apr. 23, 1943
24	3½ miles west	R. H. Rhodes	Henry Lane	1940	165	4	12.50	do.
25	In Blessing	Missouri Pacific Lines	--	Old	612	--	--	--
26	do.	Kirk Harder	Otto Mickelson	1940	620	2½	g/ 8	1940
27	1½ miles southwest	do.	do.	1939	529	16, 12	g/ 7	1939
28	2¼ miles southwest	American Liberty Oil Co.	do.	1941	424	6	--	--
29	3½ miles southeast	Kirk Harder	Hockey and Barnett	1938	730	2	+	Apr. 23, 1943

Well	Distance from Palacios	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
30	5½ miles northwest	J. L. Beard	Barnett Bros.	1917	329	2	+ 5.2	Sept. 6, 1934
31	3¼ miles west	V. L. Anderson	--	1905	525	24	+ 5.1	do.
32	5 miles west	Arthur Kight	--	--	640 ¹	2½	+	1934
f/ 33	4½ miles northwest	Turtle Bay School	Geo. Barnett	--	361	2	+ 9.13	Apr. 2, 1944
34	3¼ miles west	Mrs. W.A. Wolf	--	--	400 ¹	2	+ 3.2	Sept. 6, 1934
35	2 miles northwest	Camp Hulen	Layne-Bowler Co.	1907	953	6	+ 16.0	Aug. 9, 1934
36	2 miles southwest	do.	--	1925	600	6	+ 5.1	do.
37	do.	do.	--	--	500 ¹	6	3.80	Sept. 28, 1934
38	do.	do.	--	--	300 ¹	6	10.72	do.
39	do.	do.	--	--	600 ¹	2	+ 6.5	do.
40	In Palacios	City of Palacios	J.H. Powell	--	590 ¹	12	+ 3.4	July 24, 1934
							15.69	Apr. 2, 1944
41	do.	do.	do.	--	590 ¹	4	+ 3.7	July 24, 1934
42	1¼ miles northeast	J. G. Sowell	Snodgrass and Barnett	--	600 ¹	2	+ 5.8	Sept. 7, 1934
43	3 miles north	J.G. Moffett	R. M. Snodgrass	--	290 ¹	3	--	--
44	3½ miles northwest	J. P. Ellis	J. H. Powell	--	568	2½	+ 1.5	Sept. 8, 1934

Well	Method of lift b/	Use of water c/	CHEMICAL TESTS d/			Remarks
			Bicar- bonate (HCO ₃)	Chlo- ride (Cl)	Hardness e/	
23	None	N	--	--	--	Formerly irrigated rice.
24	C, W	S	330	78	--	
25	None	N	--	--	--	Formerly supplied locomotive boilers. See log.
26	C, E, 4	D, S	316	37	--	Sand reported from 590 to 620 feet. Screen from 600 to 620 feet.
27	T, D 100	Irr	322	92	--	Yield 2,000 gallons a minute. Irrigates 270 acres of rice. Reported yield 3,000 gallons a minute during test.
28	T, E 3	Ind	298	40	--	Average pumpage reported 80,000 gallons a day.
29	Flows C, W	S	291	82	--	Screen from 709 to 730 feet.
<u>CHEMICAL TESTS d/</u>						
			Parts per million		Remarks	
Well Method of lift b/			Use of water c/		Hardness e/	
			Bicar- bonate (HCO ₃)		Chlo- ride (Cl)	
30	Flows	D, S	348	51	110	Measured flow 8 $\frac{1}{2}$ gallons a minute in 1934. Temperature 76°F.
31	Flows	D, S	316	55	55	Measured flow 19 gallons a minute in 1934. Temperature 79°F.
32	Flows	D, S	428	78	25	
33	Flows C, H	P	336	48	81	Temperature 76°F.
34	Flows	D, S	350	55	50	Measured flow 1 gallon a minute in 1934. Temperature 77°F.
35	Flows	N	550	700	55	Estimated flow 75 gallons a minute in 1934. Temperature 82°F. See log.
36	None	N	334	60	10	Formerly supplied Texas National Guard Camp Plugged and abandoned.
37	None	N	416	56	20	Do.
38	None	N	158	595	350	Do.
39	None	N	338	59	15	Do.
40	A, E, ---	P	358	64	15	Formerly supplied city of Palacios; now used as standby well. Temperature 80°F.
41	A, --	P	360	62	20	Do.
42	Flows	D, S	358	74	20	Temperature 76°F.
43	C, G, 3	D, S	396	57	55	
44	Flows	D, S	332	64	32	Measured flow 1 gallon a minute in 1934. Temperature 77°F.

Records of wells in Matagorda County--Continued

Well	Distance from Palacios	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
45	3 $\frac{3}{4}$ miles northeast	Dr. J.R. Wagner	Layne- Texas Co.	1927	1,000	9-5/8	+	1934
46	4 $\frac{1}{2}$ miles north	J.K. Darnell	R. M. Snodgrass	1927	287	2 $\frac{1}{2}$	+ 3.1 g/0.0	Sept. 8, 1934 July 1938
f/ 47	2 miles west	Camp Hulen No. 4	Layne- Texas Co.	1937	574	13-3/8	+ 6-5/8	Aug. 3, 1937 --
48	2 $\frac{1}{4}$ miles west	Camp Hulen No. 5	do.	1940	646	20, 10	g/28	Nov. 30, 1940
49	2 miles west	Camp Hulen No. 6	Texas Water Supply Corp.	1941	717	16-5/16	--	--

Well	Distance from Bay City	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
50	11 miles northwest	John Fella	John Fella	1924	35	1 $\frac{1}{4}$	--	--
51	10 miles northwest	Jack Hiltbold	Otto Mickelson	--	126	2	--	--
52	8 miles northwest	J. C. Carson et al.	C.G. Hammill	--	700	6	--	--
53	6 miles west	J. H. Barber	R. C. Berglund	1934	55	2	--	--
f/ 54	6 miles southwest	Mrs. E. H. Chapman	--	--	110	--	--	--
55	do.	T. J. Walker	J.W. Whiddon	1918	21	1 $\frac{1}{4}$	--	--
56	do.	City of Markham	J.H. Powell	1909	687	24	--	--
57	4 miles southwest	W. M. Bucek	J.W. Whiddon	1929	22	1 $\frac{1}{4}$	--	--
58	12 $\frac{1}{2}$ miles west	W. J. Saman	--	1922	65	24	2.02	Apr. 24, 1943
59	11 $\frac{1}{2}$ miles northwest	Jacob Rassmussen	--	1913	30	1 $\frac{1}{4}$	--	--
60	10 miles west	Texas Pipe Line Co.	Henry Lane	1942	124	2	g/12	1942
61	6 miles west	H. T. Barber	Leo Franzina	1939	185	2	g/15	1939
62	10 $\frac{1}{2}$ miles southwest	Jack Reeves	L.E. Liggett	1921	690	2	--	--
63	do.	do.	M.T. Huebner	1940	935	2	+	Apr. 29, 1943
64	do.	do.	Henry Lane	1942	106	16	10.75	do.
65	9 miles southwest	do.	do.	1943	427	12	--	--
66	6 $\frac{1}{2}$ miles southwest	J. E. Dawdy	Leo Franzina	1940	480	2	g/20	1940

Well	Method of lift b/	Use of water c/	CHEMICAL TESTS d/ Parts per million			Remarks
			Bicar- bonate (HCO ₃)	Chlo- ride (Cl)	Hardness e/	
45	Flows	N	398	1,170	120	Measured flow 100 gallons a minute in 1934. Temperature 84°F. See log.
46	Flows Cf,E,-	D,S	364	52	85	Measured flow 5 gallons a minute in 1934. Temperature 74°F.
47	Flows T,E,15	P	330	62	--	Screen from 527 to 571 feet. Water level reported below land surface February 21, 1941. See log.
48	T,E,-	P	351	58	--	Screen from 523 to 545, and 581 to 591 feet. See log.
49	T,E,-	P	503	138	--	do.

Well	Method of lift b/	Use of water c/	CHEMICAL TESTS d/ Parts per million			Remarks
			Bicar- bonate (HCO ₃)	Chlo- ride (Cl)	Hardness e/	
50	C,H	D,S	401	125	330	
51	C,W	D,S	416	110	320	
52	C,W	D,S	292	30	200	
53	None	N	432	78	320	Filled and abandoned.
54	C,H	D,S	418	177	--	
55	C,H	D,S	400	114	400	
56	C,W	P	292	35	140	Furnishes part of city supply.
57	C,W, G, $\frac{1}{4}$	D,S	456	42	390	
58	T,-	N	--	--	--	Formerly irrigated rice.
59	C,H	D,S	--	--	--	
60	A,-	Ind.	338	100	--	Screen from 118 to 124 feet. Supplies pump station.
61	Cf,E, 1/3	D,S	398	132	--	Screen from 170 to 185 feet.
62	Cf,E, $\frac{1}{4}$	D	399	141	--	Said to have flowed until 1936.
63	Flows C,W	S, Irr.	315	764	--	Screen from 909 to 935 feet.
64	T,D, 36	Irr.*	--	--	--	Screen from 44 to 106 feet. Irrigates 160 acres of rice. See log.
65	T,-	Irr.	--	--	--	Irrigates rice. See log.
66	C,W	D,S	351	81	--	Screen from 472 to 480 feet.

Records of wells in Matagorda County--Continued

Well	Distance from Bay City	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER	LEVEL
							Below measuring point (ft.) a/	Date of measurement
67	7 miles southwest	Plotner & Stoddard	--	--	635	--	--	--
68	8½ miles southwest	United North & South Oil Co.	Henry Lane	1943	86	4	--	--
69	10 miles southwest	Jim Lewis	do.	1942	334	4	--	--

Well	Distance from Blessing	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER	LEVEL
							Below measuring point (ft.) a/	Date of measurement
70	5 miles northeast	V.L. Kopecky	Robertson Brothers	1931	25	3	--	--
71	do.	Elmaton School	R. Vaclovick	1932	72	4½	13.05	June 29, 1934
72	5 miles east	J. B. Wilson Est.	H. Gwines	1915	90	6	--	--
73	7 miles southeast	P. P. Terry	R. M. Snodgrass	1927	595	2½	+ 5.3	July 19, 1934
74	7½ miles southeast	A. G. Skinner	do.	1914	596	3	+ 7.1	do.
75	3¼ miles southeast	B. W. Trull	do.	1921	440	2½	+	1921
76	do.	A. E. Harter	Hockey & Barnett	1938	540	2½	+	1938
77	6 miles southeast	School District No.15	Henry Lane	1943	415	2	g/8	Jan. 1943
78	do.	Jack Reeves	Luther Patterson	1941	540	4	+ 4	Apr. 29, 1943
79	6½ miles east	Pat Thompson	Henry Lane	1943	200	4,2	7.79	Apr. 28, 1943

Well	Distance from Palacios	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER	LEVEL
							Below measuring point (ft.) a/	Date of measurement
80	10½ miles northeast	J. B. Deckert	--	Old	80	3	g/10	1943
81	12 miles northeast	Mrs. Bert Kelley	--	1933	250	3	7.68	Apr. 29, 1943
82	9½ miles northeast	Ted Mangrum	Leo Franzina	1940	750	2	+	do.
83	10 miles northeast	Stanley Kubela	M. T. Huebner	1940	772	2	+	do.
84	9½ miles northeast	do.	do.	1939	752	2	+	do.
85	6½ miles northeast	P. A. Richman	R. M. Snodgrass	1934	358	2	1.54	Sept. 26, 1934
86	4¾ miles northeast	W. A. Hamlin	L. E. Liggett	--	300+	2½	+ 5.0	do.
87	3¼ miles northeast	L. E. Liggett	do.	1909	706	2½	+ 14.0	Sept. 27, 1934
f/88	do.	Collegeport Fig Orchard Co.	do.	1930	618	2½	+ 7.6	do.

Well	Method	Use of lift	of water	Parts per million	Remarks
CHEMICAL TESTS d/					
		p/	c/	Bicar-Chlo-Hardness	
				e/	
67	None				Said to have been flowing in 1911.
68	A,-				Screen from 65 to 86 feet. Supplies drill- ing rigs. See log.
69	C,W				
70	C,E, F,				
71	C,H				
72	C,W				
73	Flows				Estimated flow 8 gallons a minute in 1934. Temperature 76° F.
74	Flows				Measured flow 5 gallons a minute in 1934. Temperature 76° F.
75	C,W				Screen from 422 to 440 feet.
76	C,W				Screen from 519 to 540 feet.
77	C,H				Screen from 407 to 415 feet.
78	Flows				Screen from 520 to 540 feet. Measured flow 2 gallon a minute.
79	C,W				Screens from 100 to 106 and 194 to 200 feet. See log.
CHEMICAL TESTS d/					
80	C,W				
81	C,H				
82	Flows				Screen from 730 to 750 feet.
83	Flows				Screen from 752 to 772 feet.
84	Flows				Flow reported 16 gallons a minute when drilled. Screen from 732 to 752 feet. See log.
85	C,W				
86	Flows				Measured flow 5 gallons a minute in 1934. Temperature 76° F.
87	Flows				Measured flow 10 gallons a minute in 1934. Temperature 76° F.
88	Flows				Measured flow 7 gallons a minute in 1934. Temperature 78° F.

Records of wells in Matagorda County--Continued

Well	Distance from Palacios	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
89	4 miles northeast	Missouri Pacific Lines	--	--	612	9-5/8	+	1934
90	3 1/2 miles northeast	O. Reynier	L.E.Liggett	1910	320	21	+ 3.9	Sept. 27, 1934
91	3 1/4 miles northeast	Gust Franzen	Frank Powell	1910	636	2 1/2	+ 6.2	Sept. 25, 1934
92	6 miles north	P. A. Richman	L.E.Liggett	--	590	2 1/2	+	1934
93	7 1/2 miles northeast	Town of Citrus Grove	R. M. Snodgrass	--	440	2 1/2	--	--
94	3 1/2 miles south	Stewart Savage	Henry Lane	1942	750	--	+	Apr. 30, 1943
95	2 1/4 miles southeast	Mrs. Clara Le Tulle	--	Old	700	4	+	do.
96	6 miles northeast	P. A. Richman	Henry Lane	1942	350	4	+	1942
97	8 miles northeast	Frank S. Schuelke	R. M. Snodgrass	1931	480	2 1/2	+	Apr. 29, 1943
98	do.	T.W.Blackwell	J.H. Powell	1915	440	2	0	do.
99	7 1/2 miles northeast	Stanley Kubela	do.	Old	830	2 1/2	+	Apr. 9, 1943

Well	Distance from Bay City	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
100	8 1/2 miles north	Pierce Est.	--	--	100	3	--	--
101	6 miles north	C.T. Dye	--	--	150	2	--	--
f/102	14 1/2 miles northeast	C. L. Bundick	C.L.Bundick	1929	43	4	13.50	July 13, 1934
103	do.	H. M. Shaw	--Wentworth	1927	109	2	--	--
104	14 miles northeast	O.J. Hodge, Sr.	do.	1913	205	2	--	--
105	do.	O.J. Hodge, Jr.	C.L.Bundick	1932	185	2	--	--
106	10 miles northeast	J. F. Smith	Layne-Bowler Co.	1912	640	8	--	--
f/107	9 miles northeast	W. F. Merritt	Richardson and Hannah	1929	96	1 1/4	--	--
108	7 1/2 miles northeast	T. J. Ewing	--Wentworth	1923	300	3	--	--
115	2 1/2 miles north	L. N. Miller	--	--	18	--	--	--
116	1 1/4 miles north	I. R. Dolan	Geo. Truitt	1932	65	4	17.31	June 28, 1934

Well	Method of lift	Use of water	CHEMICAL TESTS d/			Remarks
			Bicarbonate (HCO ₃) p/	Chloride (Cl) g/	Hardness e/	
89	Flows	N	378	143	50	Estimated flow 35 gallons a minute in 1934. Temperature 80°F.
90	Flows	D,S	332	46	70	Measured flow 8 $\frac{1}{2}$ gallons a minute in 1934. Temperature 75°F.
91	Flows	D,S	440	220	30	Measured flow 12 gallons a minute in 1934. Temperature 79°F.
92	Flows	D,S	456	248	35	Estimated flow 5 gallons a minute in 1934. Temperature 78°F.
93	C,H	P	354	58	35	
94	Flows	S	--	--	--	
95	Flows	D,S	366	168	--	Measured flow 2 gallons a minute.
96	None	N	--	--	--	Formerly supplied drilling rig. Casing pulled and hole abandoned. See log.
97	Flows	D,S	329	66	--	Screen from 462 to 480 feet.
98	None	N	--	--	--	Said to have flowed until 1941.
99	Flows	D,S	317	189	--	Estimated flow 10 gallons a minute.
CHEMICAL TESTS d/						
Well	Method of lift	Use of water	Parts per million			Remarks
			Bicarbonate (HCO ₃) p/	Chloride (Cl) g/	Hardness e/	
100	C,W	D,S	296	77	260	
101	C,W	D,S	446	78	300	
102	C,H	D,S	568	20	--	
103	C,G, 1	D,S	604	170	140	
104	C,H	D,S	340	170	140	
105	C,H	D,S	358	150	140	
106	C,W, G, 1 $\frac{1}{2}$	D,S	272	65	150	See log.
107	C,G, 3	D,S	524	96	--	
108	C,W, G, 1 $\frac{1}{2}$	D,S	236	420	160	
115	C,E, 4	D,S	494	196	420	
116	C,E, 4	D,S	504	32	370	

Records of wells in Matagorda County--Continued

Well	Distance from Bay City	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.)	Date of measurement
117	3¼ miles west	City of Bay City	R. C. Berglund	1934	372	3	14.64	July 12, 1934
f/118	In Bay City	Ellis Hammell	do.	1933	384	2½	--	--
119	1¼ miles south	W. D. Mayer	do.	1930	119	2½	11.70	Sept. 10, 1934
120	2½ miles south	Mrs. E. Rickers	Frank Stelzig	1916	90	3½	--	--
121	1¼ miles southeast	R.C. Berglund	R. C. Berglund	1930	784	2	1.42	Sept. 19, 1934
f/122	In Bay City	City of Bay City No. 2	-- Jackson	1912	435	10	--	--
f/123	do.	City of Bay City No. 1	--	--	444	20	10.4	July 26, 1934
124	2½ miles east	G. Searles	Chas. Vorwerk	1930	90	4½	10.08	June 29, 1934
125	3 miles east	J. W. Powell	R. C. Berglund	1933	333	4	--	--
126	5½ miles northeast	F.S. Pierson	F.S. Pierson	1933	45	1¼	--	--
127	5½ miles north	Brewster and Bartel	Henry Lane	1943	187	4	g/ 9	1943
128	5 miles northeast	F. G. Cobb	--	1938	275	6	g/26	1943
129	do.	Skelly Oil Co.	Luther Patterson	1936	585	6	g/26	1943
130	do.	do.	do.	1934	190	4	g/26	1943
131	4½ miles northeast	Sally Johnson	--	1923	500	3	g/ 8	1943
132	2½ miles northeast	Bart Reddock	Henry Lane	1943	156	1¼	g/15	Apr. 1943
133	1 mile northeast	Mort Le Tulle	Louie Gregory	1941	140	1¼	--	--
f/134	In Bay City	City of Bay City No. 3	Layne-Texas Co.	1940	811	13-5/8, 6-5/8	g/6	June 27, 1940
135	do.	Missouri Pacific Lines	McMasters and Pomeroy	1933	462	8, 6	g/22	Aug. 17, 1933
136	do.	Southern Pacific Lines	--	1902	131	7½	g/+14	1902
							g/ 11	1942
137	2¼ miles southwest	Anderson Est.	Henry Lane	1943	371	4	16.64	Apr. 28, 1942
138	4½ miles south	Huebner Est.	do.	1943	162	4	g/14	Apr. --, 1943
139	do.	Hattie Combs	Seismograph Crew	1938	60	4	g/ 8	1943

Well	Method of lift	Use of water	CHEMICAL TESTS d/			Remarks
			Parts per million Bicarbonate (HCO ₃)	Chloride (Cl)	Hardness e/	
117	C,W	P,Irr	338	44	130	
118	C,E, 3	S,Irr	308	38	--	
119	C,H	D,S	476	91	350	
120	C,W	D,S	466	144	340	
121	C,G, 4	D,S	258	45	120	Said to have flowed until 1933.
122	T,E, 40	P	268	40	--	Yield reported 565 gallons a minute when drilled. See log.
123	T,E, 40	P	258	38	--	Yield reported 602 gallons a minute when drilled.
124	C,W	P	404	260	430	
125	C,W	D,S	338	51	100	See log.
126	C,H	D,S	492	138	270	
127	GI,-	Ind	--	--	--	Screen from 147 to 187 feet. Supplies drilling rig. See log.
128	GI,-	S	395	125	--	Supplies fish pond .
129	A,-	D,S, Ind	284	32	--	Screen from 550 to 580 feet. Yield 100,000 gallons a day. See log.
130	GI,-	Ind	448	132	--	Screen from 180 to 190 feet. Supplies drilling rigs. See log.
131	GI,-	S	278	31	--	Said to have flowed when drilled
132	C,H	D	--	--	--	Screen from 150 to 156 feet. See log.
133	C,W	D,S	471	166	--	
134	T,E, 40	P	316	74	--	Screens from 633 to 677; 687 to 727 and 754 to 791 feet. Drawdown 63 feet, pumping 545 gallons a minute during test. See log.
135	--	RR	313	44	--	Original yield 130 gallons a minute, present yield 60 gallons a minute. See log.
136	C,E,-	RR	479	60	--	Flow reported 62½ gallons a minute when drilled. Present pumpage, 13,000 gallons a day.
137	A,-	Ind	--	--	--	Screen from 331 to 371 feet. Supplies drilling rigs. See log.
138	C,W	S	--	--	--	Screen from 156 to 162 feet. See log.
139	C,W	D,S	--	--	--	No screen.

Records of wells in Matagorda County--Continued

Well	Distance from Matagorda	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.)	Date of measurement
140	15 miles north	J. L. Hood	---	1918	70	2	g/14	1933
141	15½ miles north	Mike Kadebsky	Mike Kadebsky	1934	46	4	9.45	July 12, 1934
142	13 miles north	V. L. Le Tulle	---	---	60±	4	--	--
143	11 miles north	H. G. Gilmore	---	---	65	4	9.42	Sept. 11, 1934
144	10 miles north	Gulf, Colorado and Santa Fe R.R.	J.W. Powell	1920	557	4	+	1934
f/145	10 miles north	Mrs. H. Huston	Z. Butler	---	60	4	14.28	Aug. 10, 1934
146	10 miles northeast	J. J. Le Tulle	J.W. Powell	1917	603	2½	+ 11.2	Sept. 29, 1934
f/147	12 miles northeast	G. D. Culver	do.	1920	454	2	+ 10.2	do.
148	8½ miles northeast	J. J. Le Tulle	do.	1917	493	3	11.80	do.
149	9 miles northeast	Geo. Sutherland	Henry Lane	1942	863	2	+	June, 1942
150	6½ miles northeast	Arthur Bear	do.	1942	682	2	+	Oct. 20, 1942
160	7 miles northeast	Culver Est.	Ed. Mallory	1933	32	4	--	--
161	6 miles northeast	V. L. Le Tulle	R. C. Berglund	1912	717	2½	+ 17.5	Sept. 29, 1934
162	4 miles north	Braman Est.	do.	1931	80	4	--	--
163	2½ miles northeast	do.	---	---	125±	6	--	--
164	In Matagorda	D. M. Williams	J. W. Powell	1919	702	4	+	1934
165	do.	W. E. Cook	Geo. Barnett	1934	410	2	+ 0.6	Sept. 11, 1934
166	do.	C.W. Burkhort	B.F. Powell	---	590	2½	+	1934
167	do.	A. W. McNabb	R. M. Snodgrass	1928	402	2	+	1934
168	do.	N. W. Culver	B.F. Powell	1914	710±	3	+ 9.8	Aug. 11, 1934
f/169	1 mile northeast	W. M. Dunbar	R. M. Snodgrass	1927	735	3	+ 25.2	Sept. 11, 1934
170	5½ miles northeast	Texas Gulf Sulphur Co.	Layne Texas Co.	1918	521	24	18.45	Sept. 14, 1934

Well	Method of lift	Use of water	CHEMICAL TESTS d/			Remarks
			Bicar- bonate (HCO ₃)	Chlo- ride (Cl)	Hardness e/	
140	C,W	D,S	430	56	270	
141	C,W	D,S	476	538	630	
142	C,W	D,S	572	325	370	
143	C,W	D,S	366	98	310	
144	Flows C,G,--	S	608	370	60	Principal water-bearing sand from 524 to 557 feet. Estimated flow 4 gallons a minute in 1934. See log.
145	--	D,S	413	150	--	
146	Flows	D,S	304	690	65	Flow reported 65 gallons a minute with static water level 20 feet above land surface when drilled. Principal water-bearing sand from 530 to 603 feet. See log.
147	Flows	D,S	384	63	--	Flow reported 40 gallons a minute with static water level 20 feet above land surface when drilled.
148	None	N	--	--	--	Flow reported 50 gallons a minute when drilled. Flow stopped in 1930. Principal water-bearing sand from 422 to 493 feet. See log.
149	Flows	D,S	--	--	--	Screen from 813 to 863 feet. Flow reported 12 gallons a minute when drilled. See log.
150	Flows	S	--	--	--	Screen from 672 to 682 feet. See log.
160	C,W	D,S	552	460	430	Static water level reported 25 to 30 feet above land surface when drilled.
161	Flows	D,S	380	73	10	
162	C,W	D,S	400	530	560	
163	C,W	S	436	705	750	
164	Flows	P	494	160	15	Small flow reported. Well sands up.
165	Flows	D,S	570	80	40	Temperature 78°F.
166	Flows	D,S	532	62	15	
167	Flows C,W	D,S	542	107	45	
168	Flows	P	570	155	20	
169	Flows	D,S	422	152	--	Temperature 82°F.
170	T, E, 50	Ind., P	--	--	--	Yield reported 818 gallons a minute when drilled. See log.

Records of wells in Matagorda County--Continued

Well	Distance from Matagorda	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
171	6 miles northeast	Texas-Gulf Sulphur Co.	Layne Texas Co.	1927	515	16	--	--
172	do.	do.	do.	1918	491	24	18.5	Sept. 13, 1934
173	3 1/4 miles northeast	G. L. Gottschalk	R. M. Snodgrass	1934	748	2	+ 25.3	Sept. 12, 1934
f/174	1 mile southwest	Brown and Root Inc.	Henry Lane	1943	773	4	+ 23.25	June 11, 1943
f/175	5 1/2 miles south	U. S. Coast Guard	--	Old	600±	2 1/2	+	do.

Well	Distance from Gainsmore	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
180	8 1/2 miles northwest	H. W. Estill	E. B. Dacke	1931	640	4	+ 2.2	July 26, 1934
181	7 1/2 miles northwest	L. R. Herrick	--	1917	532	2	+	1934
182	3 1/2 miles northwest	H. W. Estill	E. B. Dacke	1928	684	4	+ 5.1	Aug. 7, 1934
f/183	3 miles northwest	Mrs. G. E. Ratcliff	do.	1929	932	4	+20.3	do.
184	4 miles southwest	H. G. Falls	do.	1934	630	2	+ 6.0	do.
185	In Gainsmore	R. E. Vineyard	B.F. Powell	1914	600±	2 1/2	+	1934
186	2 miles southeast	C. T. Freeman	Chas. Vorwerk	1934	70	4	--	--
f/187	3 1/2 miles southeast	R. Sanborn	E. B. Dacke	--	631	2	+	1934
188	4 1/2 miles southeast	C. T. Freeman	--	1930	635	2	+10.0	--
189	5 1/2 miles southeast	A. B. Pierce	B.F. Powell	1909	440±	2	+	1934

Well	Distance from Blessing	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
190	3 miles southwest	Kirk Harter	Henry Lane	1941	340	5	7.28	Apr. 24, 1943
191	3 1/4 miles southwest	Joseph Pybus Est.	do.	1941	96	4	9.14	Apr. 23, 1943
192	6 1/2 miles southwest	John Gresham	Ctto Mickelson	1938	522	--	18.31	Apr. 22, 1943

Well	Method of lift b/	Use of water g/	CHEMICAL TESTS d/			Remarks
			Parts per million Bicarr- (HCO ₃)	Chloride (Cl)	Hardness e/	
171	T, E, 15	Ind, P	520	96	25	Yield reported 280 gallons a minute. See log.
172	T, E, 50	Ind, P	410	191	350	Yield reported 1,097 gallons a minute when drilled. See log.
173	Flows	S	346	1,040	75	Temperature 84°F.
174	Flows	Ind.	464	103	--	Screen from 753 to 773 feet. Measured flow 60 gallons a minute 1 foot above land surface. See log.
175	Flows	P	829	358	--	Measured flow 4 gallons a minute 2 feet above land surface.
CHEMICAL TESTS d/						
Well	Method of lift b/	Use of water g/	CHEMICAL TESTS d/			Remarks
			Parts per million Bicarr- (HCO ₃)	Chloride (Cl)	Hardness e/	
180	Flows	D, S	312	181	15	Measured flow 8 gallons a minute in 1934.
181	Flows	D, S	228	438	45	Estimated flow 15 gallons a minute in 1934. Static water level reported 8 feet above land surface in 1917.
182	Flows	D, S	416	195	35	Measured flow 9 gallons a minute in 1934.
183	Flows	D, S	383	802	--	Estimated flow 35 gallons a minute in 1934. See log.
184	Flows	D, S	524	382	70	Measured flow 15 gallons a minute in 1934.
185	Flows	D, S	244	450	95	Estimated flow 8 gallons a minute in 1934. Static water level reported 12 feet above land surface in 1914.
186	C, W	S	474	460	350	
187	Flows	D, S	486	281	--	Measured flow 10 gallons a minute in 1934.
188	Flows	D, S	416	552	110	Measured flow 15 gallons a minute in 1934.
189	Flows	P	472	135	50	Estimated flow 1 gallon a minute in 1934.
CHEMICAL TESTS d/						
Well	Method of lift b/	Use of water g/	CHEMICAL TESTS d/			Remarks
			Parts per million Bicarr- (HCO ₃)	Chloride (Cl)	Hardness e/	
190	C, W	S	392	261	--	Formerly supplied drilling rig.
191	G, W	S	420	324	--	
192	T, D, 100	Irr.	--	--	--	Irrigated rice in 1942.

Records of wells in Matagorda County--Continued

Well	Distance from Blessing	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
193	7 miles southwest	Tom Sloan	J.H. Powell	Old	460	24	7.05	do.

Well	Distance from Palacios	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	WATER LEVEL	
							Below measuring point (ft.) a/	Date of measurement
f/194	In Palacios	City of Palacios No. 3	Layne-Texas Co.	1936	607	6	g/+	Aug. 23, 1936
f/195	do.	City of Palacios No. 4	do.	1941	590	13-3/8, 6-5/8	g/14	June 28, 1941
196	1 1/4 miles west	Camp Hulen No. 7	do.	1943	730	16, 8	g/61	Feb. 1943
197	16 1/2 miles southwest	Matagorda Peninsula Flying Field No. 1	do.	1942	500	8-5/8, 6-5/8	g/+	Feb. 22, 1942
f/198	do.	Matagorda Peninsula Flying Field No. 2	do.	1942	501	8-5/8, 6-5/8	g/+	May 11, 1942

a/ Plus (+) indicates water level above measuring point.

b/ Pump: T, turbine; A air; G1, gas; Cf, centrifugal; O, cylinder.

Power: E, electric; D, diesel engine; G, gasoline engine; W, windmill; H, hand.

Number indicates horse power.

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

Well	Method of lift b/	Use of water c/	CHEMICAL TESTS d/			Remarks
			Parts per million			
			Bicar- bonate (HCO ₃)	Chlo- ride (Cl)	Hardness e/	
193	None	N	--	---	--	Formerly irrigated rice.

Well	Method of lift b/	Use of water c/	CHEMICAL TESTS d/			Remarks
			Parts per million			
			Bicar- bonate (HCO ₃)	Chlo- ride (Cl)	Hardness e/	
194	T,E,-	P	353	73	--	Screen from 544 to 565 feet. Flowed 25 gallons a minute when drilled. Yield 253 gallons a minute. See log.
195	T,E, 20	F	348	63	--	Screen from 542 to 578 feet. Yield 420 gallons a minute. See log.
196	T,E, 50	P	--	--	--	Yield reported 530 gallons a minute. See log.
197	T,E, 5	F	--	--	--	Screens from 396 to 419, 444 to 464, and 480 to 496 feet. Yield reported 100 gallons a minute. See log.
198	T,E, 5	P	576	775	--	Screens from 379 to 402, 436 to 464, and 481 to 499 feet. Yield reported 100 gallons a minute. See log.

d/ Made by Margaret D. Foster, E. W. Lohr, and W. W. Hastings.

e/ Determined.

f/ For analyses of water see table on page 30.

g/ Water level reported by driller or owner.

Table of Drillers' Logs, Matagorda County, Texas

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Well 15</u>				<u>Well 25--Continued</u>			
A. B. Pierce, in Blessing. Driller, L. A. Layne				Sand, water			
				25		131	
				49		180	
				2		182	
Black soil	4	4	Fine-grained sand, water	5	187		
Clay	37	41	Red clay	19	206		
Sand	15	56	Blue clay	115	321		
White clay	34	90	Sand, water	6	327		
Muddy sand	22	112	White clay	100	427		
Red clay	71	183	Sand, dry	20	447		
Rock	8	191	Red clay	40	487		
Line rock	129	320	White sand	20	507		
Clay and cobblestones	60	380	Gray clay	83	590		
Sand	19	399	Slate	8	598		
Hard rock	19	418	Sand and gravel, water	14	612		
Gumbo	62	480					
Red rock	11	491					
Gumbo	87	578					
Rock	5	583					
Sand	35	618					
Gumbo	6	624					
				<u>Well 35</u>			
				Camp Hulen, 2 miles northwest of Palacios. Driller, Layne-Bowler Co.			
				Clay	177	177	
				Sand	14	191	
				Clay	6	197	
				Sand	21	218	
				Clay	119	337	
				Shale	7	344	
				Gumbo	91	435	
				Clay	19	454	
				Hard clay	20	474	
				Gumbo	8	482	
				Shale and gravel	16	498	
				Gumbo	16	514	
				Shale and gumbo	19	533	
				Gumbo	131	664	
				Sand	32	696	
				Gumbo	21	717	
				Sand	12	729	
				Gumbo	4	733	
				Sand	10	743	
				Sandy shale	44	787	
				Pecksand	35	822	
				Shale	2	824	
				Rock	2	826	
				Shale	5	831	
				Sand	8	839	
				(Continued on next page)			
<u>Well 22</u>							
B. W. Trull, 3½ miles northwest of Blessing. Driller, Layne-Bowler Co.							
Clay	74	74					
Sand	39	113					
Clay	149	262					
Sand	59	321					
Clay and gumbo	80	401					
Gravel	20	421					
<u>Well 25</u>							
Missouri Pacific Lines, in Blessing.							
Sandy loam	2	2					
White clay	4	6					
Red clay	6	12					
Fine-grained red sand	2	14					
White clay	18	32					
Red clay	2	34					
Sand	7	41					
Clay	65	106					

Table of Drillers' Logs, Matagorda County--Continued

Well 35--Continued		Well 45--Continued			
	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Shale	14	853	Rock	4	559
Sand	7	860	Gumbo	30	589
Clay	23	883	Sand rock	23	612
Sand	23	906	Gumbo	5	617
Rock, layers	10	916	Rock	2	619
Sand	20	936	Gumbo	3	622
Sandy shale	15	951	Lime rock	14	636
Sand	2	953	Gumbo	19	655
			Sand rock	10	665
			Gumbo	7	672
			Sand	2	674
			Gumbo	52	726
			Sand	6	732
			Gumbo	27	759
			Sand	5	764
			Gumbo	12	776
			Sand	10	786
			Gumbo	3	789
			Sand	4	793
			Gumbo	5	798
			Sand and gravel	26	824
			Rock	1	825
			Gumbo	20	845
			Sand	17	862
			Gumbo	14	876
			Rock	4	880
			Sand	14	894
			Sand and shale	15	909
			Good sand	27	936
			Sand and shale	39	975
			Gumbo	25	1000
<u>Well 45</u>				<u>Well 47</u>	
Dr. J. R. Wagner, $3\frac{3}{4}$ miles northeast of Palacios. Driller, Layne-Texas Co.				Camp Hulen No. 4, $2\frac{1}{2}$ miles west of Palacios. Driller, Layne-Texas Co., Ltd.	
Soil	4	4	Soil and clay	15	15
Clay	17	21	Sand	5	20
Sand	1	22	Red clay	28	48
Clay	25	47	Sand	5	53
Sand	2	49	Clay	70	123
Clay	32	81	Sand	21	144
Sand	8	89	Clay	20	164
Clay	17	106	Fine-grained red sand	5	169
Sand	22	128	Soft clay	37	206
Clay	25	153	Clay streaks, shale and shell	70	276
Sand	3	156			
Clay	60	216			
Gumbo	25	241			
Sand	5	246			
Gumbo	18	264			
Clay and small stone	26	290			
Muddy sand	12	302			
Gumbo	78	380			
Rock	3	383			
Gumbo	33	416			
Rock	7	423			
Gumbo	5	428			
Rock	5	433			
Gumbo	10	443			
Shale	21	464			
Gumbo	18	482			
Rock	1	483			
Sand and gravel	8	491			
Gumbo	42	533			
Rock	2	535			
Gumbo	5	540			
Sand rock	9	549			
Sand and gravel	6	555			

(Continued on next page)

Table of Drillers' Logs, Matagorda County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 47--Continued</u>		
Sand	24	300
Clay	33	333
Shells and clay	31	364
Clay	13	377
Sand	5	382
Clay and shells	66	448
Sand	5	453
Sticky clay	72	525
Fine-grained hard sand	44	569
Sticky clay	5	574
<u>Well 48</u>		
Camp Hulen No. 5, 2 miles west of Palacios. Driller, Layne-Texas Co. Ltd.		
Surface soil	8	8
Red clay	16	24
Red and white clay	29	53
Clay and shell	8	61
Clay	34	95
Fine-grained sand	21	116
Coarse-grained white sand	18	134
Soft clay	17	151
Clay and shell	136	287
Shell and sandy breaks	13	300
Tough sticky shale and some shell	24	324
Soft shale and shell	6	330
Tough sticky shale, some shell	7	337
Sandy shale and shell	20	357
Shale	25	382
Sandy shale and shell	17	399
Shale, sandy layers	37	436
Tough shale	86	522
Sand	22	544
Tough shale	36	580
Sand	10	590
Tough shale	56	646

	Thickness (feet)	Depth (feet)
<u>Well 49</u>		
Camp Hulen No. 6, 2 miles west of Palacios. Driller, Texas Water Supply Corp.		
Sand	12	12
Clay	28	40
Sand	16	56
Clay	40	96
Hard sand	44	140
Shale	15	155
Hard sand	5	160
Shale	85	245
Sand	58	303
Shale	67	370
Shale and sand streaks	5	375
Sticky clay	63	438
Sand	8	446
Shale	88	534
Sand	7	541
Shale and sand streaks	4	545
Hard fine-grained sand	5	550
Sticky shale	30	580
Sand	24	604
Sticky shale	26	630
Sand	20	650
Sticky shale	44	694
Sand	23	717

<u>Well 64</u>		
Jack Reeves, 10 $\frac{1}{2}$ miles southwest of Bay City. Driller, Henry Lane.		
Shale	42	42
Sand	62	104
Shale	2	106

<u>Well 65</u>		
Jack Reeves, 9 miles southwest of Bay City. Driller, Henry Lane.		
Surface clay	10	10
Sand	10	20
White clay	28	48
Sand	42	90

(Continued on next page)

Table of Drillers' Logs, Matagorda County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Well 65--Continued</u>				<u>Well 84--Continued</u>			
Red shale		52	142	Sand and gravel		24	340
Sand		28	170	Shale and lime		22	362
Shale and rock		232	402	Sand and gravel		18	380
Sand		25	427	Shale		24	404
<u>Well 68.</u>				<u>Well 84--Continued</u>			
United North and South Oil Co., $8\frac{1}{2}$ miles southwest of Bay City. Driller, Henry Lane.				Sticky shale		40	444
Surface clay		14	14	Sandy shale		20	464
Red and white clay		32	46	Sand		20	484
Rock		5	51	Sand and gravel		20	504
Rock and sand		35	86	Sandy shale		60	564
<u>Well 79</u>				Sand and gravel		20	584
Pat Thompson, $6\frac{1}{2}$ miles east of Blessing. Driller, Henry Lane.				Sticky shale		40	624
Soil		4	4	Shale		20	644
Clay		36	40	Sandy shale		54	698
Sand		18	58	Sand		52	750
Shale		35	93	Shale		2	752
Sand		8	101	<u>Well 96</u>			
Shale		82	183	Pat Richmond, 6 miles northeast of Palacios. Driller, Henry Lane.			
Sand		17	200	Surface		10	10
<u>Well 84</u>				Sand		24	34
Stanley Kubela, $9\frac{1}{2}$ miles northeast of Palacios. Driller, M. T. Huebner.				Gray shale		81	115
Surface soil		4	4	Sticky shale		87	202
Clay		20	24	Red shale		23	225
Fine-grained sand		14	38	Sand and shale		38	263
Red clay		24	62	Shale		56	319
Sand		21	83	Sand		31	350
Sticky shale		60	143	<u>Well 106</u>			
Sand		15	158	J. F. Smith, 10 miles northeast of Palacios. Driller, Layne-Bowler Co.			
Shale		100	258	Soil and clay		20	20
Sand		16	274	Sandy clay		46	66
Shale		10	284	Sand and gravel		117	183
Gumbo		32	316	Clay		171	354
				Fine-grained sand		14	368
				Gumbo		61	429
				Shale and gravel		12	441
				Gumbo		48	489
				Water sand		40	529
				Clay		12	541
				(Continued on next page)			

Table of Drillers' Logs, Matagorda County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
<u>Well 106--Continued</u>			<u>Well 127</u>		
Fine-grained gray sand	17	558	Brewster and Bartel, 5 $\frac{1}{2}$ miles north of Bay City. Driller, Henry Lane.		
Gumbo	29	587	Sand	10	10
Water sand	44	631	Shale	75	85
Gumbo	9	640	Sand	102	187
<u>Well 122</u>			<u>Well 129</u>		
City of Bay City No. 2, in Bay City. Driller, -- Jackson.			Skelly Oil Co., 5 miles northeast of Bay City. Driller, Luther Patterson.		
Surface soil	3	3	Soil and clay	70	70
Clay and sand	18	21	Sand	109	179
Sand	17	38	Shale	98	275
Clay and sand	37	75	Shale and sand	127	402
Tough clay	37	112	Shale	106	508
Hard sand	29	141	Sandy shale	20	528
Pink gumbo	49	190	Shale	17	545
Sticky shale	38	228	Sand, water	38	583
Blue gumbo	40	268	Shale	2	585
Sandy shale	27	295			
Blue gumbo	90	385			
Water, sand and gravel	50	435			
<u>Well 125</u>			<u>Well 130</u>		
J. W. Powell, 3 miles east of Bay City. Driller, R. C. Berglund.			Skelly Oil Co., 5 miles northeast of Bay City. Driller, Luther Patterson.		
Clay	35	35	Soil	10	10
Sand	24	59	Clay	65	75
Clay	3	62	Sand and gravel	115	190
Coarse-grained sand	48	110			
Blue clay	39	149	<u>Well 132</u>		
Coarse-grained sand	9	158	Bart Reddock, 2 $\frac{1}{2}$ miles northeast of Bay City. Driller, Henry Lane.		
Blue clay	4	162	Surface clay	42	42
Sand	26	188	Sand	30	72
Blue clay	24	212	Rock and shale	68	140
Blue clay and boulders	10	222	Sand	16	156
Hard blue clay	74	296			
Sand	37	333			

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

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)	
<u>Well 134</u>				<u>Well 137</u>				
City of Bay City No. 3, in Bay City. Driller, Layne-Texas Co.				Anderson Estate, 2 $\frac{1}{4}$ miles southwest of Bay City. Driller, Henry Lane.				
Soil and clay	13	13	Surface clay	7	7			
Sand and layers of clay	126	139	Sand	23	30			
Red, blue and gray clay	133	272	Red shale	50	80			
Sandy clay and sand	51	323	Fine-grained sand	9	89			
Blue shale	20	343	Shale and rock	42	131			
Sand, clay breaks	10	353	Rock and sand	9	140			
Shale	39	392	Blue clay	8	148			
Brown sand and shale breaks	37	429	Sand	10	158			
Shale	8	437	Clay	62	220			
Sand with shale breaks	33	470	Shale with sand breaks	134	354			
Shale	26	496	Coarse-grained sand	17	371			
Sand with shale breaks	53	549	<u>Well 138</u>					
Shale	24	573	Huebner Estate, 4 $\frac{1}{2}$ miles south of Bay City. Driller, Henry Lane.					
Fine-grained sand	10	583	Surface soil	3	3			
Blue mixed shale	36	619	Clay	11	14			
Sharp sand	44	663	Sand	16	30			
Shale	9	672	Shale	60	90			
Sand and shale breaks	36	708	Fine-grained sand	20	110			
Shale	17	725	Shale	34	144			
Sand	20	745	Coarse-grained sand	18	162			
Shale	9	754	<u>Well 144</u>					
Sand and shale breaks	31	785	Gulf, Colorado and Santa Fe Railroad, 10 miles north of Matagorda. Driller, J. W. Powell.					
Shale with streaks of sand	21	806	Clay	16	16			
No record	5	811	Sand	7	23			
<u>Well 135</u>				Clay	29	52		
Missouri Pacific Lines No. 2, in Bay City. Driller, McMasters and Pomeroy.				Sand	15	67		
Surface	66	66	Clay	2	69			
Sand	34	100	Sand	10	79			
Red clay	278	378	Clay	29	108			
Sand	16	394	Sand	16	124			
Hard gumbo	18	412	(Continued on next page)					
Coarse-grained sand and gravel	50	462						

Table of Drillers' Logs, Matagorda County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Well 144--Continued</u>				<u>Well 148</u>			
Blue clay		12	136	J. J. Le Tulle, $8\frac{1}{2}$ miles northeast of Matagorda. Driller, J. H. Powell.			
Coarse-grained sand		11	147	Clay		39	39
Blue clay		17	164	Fine-grained sand		117	156
Fine-grained sand		15	179	Clay		4	160
Clay		10	189	Coarse-grained sand		51	211
Fine-grained sand		6	195	Blue clay		154	365
Clay		24	219	Fine-grained sand		53	418
Coarse-grained sand		39	258	Blue clay		4	422
Clay		55	313	Coarse-grained sand		71	493
Fine-grained sand		19	332	<u>Well 149</u>			
Gumbo		49	381	Geo. Sutherland, 9 miles northeast of Matagorda. Driller, Henry Lane.			
Fine-grained sand		13	394	Surface clay		23	23
Gumbo		13	407	Sand		7	30
Coarse-grained sand		26	433	Shale		35	65
Blue clay		91	524	Sand		12	77
Water sand		33	557	Shale		38	115
<u>Well 146</u>				J. J. Le Tulle, 10 miles northeast of Matagorda. Driller, J. W. Powell.			
Clay		22	22	Rocks and shale		25	140
Sand		1	23	Sand		30	170
Clay		42	65	Shale breaks		6	176
Sand		6	71	Sand		9	185
Clay		38	109	Red shale		28	213
Sand		10	119	Sand		105	318
Clay		15	134	Blue shale		56	374
Sand		21	155	Blue sand		11	385
Clay		26	181	Hard shale		67	452
Hard blue clay		54	235	Coarse-grained sand		29	481
Clay		104	339	Shale		69	550
Fine-grained sand		21	360	Sand and shale		25	575
Clay		29	389	Sticky shale		76	651
Sand		9	398	Sand		31	682
Clay		108	506	Shale		14	695
Fine-grained sand		10	516	Sand		167	863
Clay		14	530				
Coarse-grained sand		73	603				

Table of Drillers' Logs, Matagorda County--Continued

Well 150			Well 171--Continued		
	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
<p>Arthur Bear, $6\frac{1}{2}$ miles northeast of Matagorda. Driller, Henry Lane.</p>			<p>Clay 28 64</p>		
Surface soil	2	2	Sand	34	98
Clay	9	11	Clay	40	138
Sand	29	40	Sand and gravel	26	164
Shale	107	147	Clay	28	192
Sand	26	173	Sand	18	210
Shale	32	205	Gumbo	88	298
Oyster shells	11	216	Shale	10	308
Fine-grained sand	34	250	Gumbo	23	331
Sticky shale	54	304	Shale	27	358
Shale	106	410	Gumbo and shale	43	401
Fine-grained sand	22	432	Sandy shale	15	416
Shale	18	450	Gumbo	45	461
Sand	23	473	Shale	8	469
Shale	199	672	Sand	36	505
Fine-grained sand	10	682	Gumbo	10	515
<p>Well 170</p>			<p>Well 172</p>		
<p>Texas Gulf Sulphur Company, $5\frac{1}{2}$ miles northeast of Matagorda. Driller, Layne-Texas Co.</p>			<p>Texas Gulf Sulphur Company, 6 miles northeast of Matagorda. Driller, Layne-Texas Co.</p>		
Clay	11	11	Clay	19	19
Sand	31	42	Sand	15	34
Clay	35	77	Clay	5	39
Coarse-grained red sand	73	150	Red sand	16	55
Coarse-grained white sand	10	160	Clay	8	63
Clay	52	212	Red sand	35	98
Coarse-grained sand	10	222	Clay	16	114
Gumbo	181	403	Coarse-grained sand	57	171
Fine-grained gray sand	15	418	Gumbo	186	357
Gumbo	4	422	Sand and gravel	34	391
Fine-grained blue sand	21	443	Gumbo	11	402
Gumbo	78	521	Sand and shale	20	422
<p>Well 171</p>			<p>Gumbo 43 465</p>		
<p>Texas Gulf Sulphur Company, 6 miles northeast of Matagorda. Driller, Layne-Texas Co.</p>			<p>Hard sand 26 491</p>		
Soil and clay	9	9			
Sand	27	36			

Table of Drillers' Logs, Matagorda County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
<u>Well 174</u>				<u>Well 194</u>			
Brown and Root, Inc., 1 mile southwest of Matagorda. Driller, Henry Lane.				City of Palacios in Palacios. Driller, Layne-Texas Co.			
Surface soil		12	12	Clay		7	7
Sand		23	35	Sand		8	15
Blue shale		51	86	Clay		44	59
Sand		19	105	Sand		7	66
Shale		58	163	Clay		109	175
Shale and sand		22	185	Sand		7	182
Sticky shale		75	260	Clay		40	222
Sand		21	281	Sandy clay		24	246
Shale		68	349	Sand		12	258
Sand		26	375	Clay		48	306
Sticky shale		75	450	Sand		12	318
Sand		52	502	Shale		24	342
Sticky shale		96	598	Sand		3	345
Sand and shale		42	640	Clay		14	359
Sand		20	660	Sand		14	373
Shale		78	738	Shale		3	376
Sand		35	773	Sand		38	414
<u>Well 183, partial log</u>				Shale		31	445
Mrs. R. E. Ratliff, 3 miles northeast of Gainsmore. Driller, E. B. Dacke.				Sand		7	452
Surface soil		20	20	Shale		28	480
Red gumbo		135	155	Sand		6	486
Sand		20	175	Shale		60	546
Blue gumbo		20	195	Sand		42	588
Sand		80	275	Shale		19	607
Sticky shale		20	295	<u>Well 195</u>			
Blue gumbo		105	400	City of Palacios in Palacios.			
Sandy shale		10	410	Soil		1	1
Gumbo		59	469	Clay		14	15
Sandy shale		10	479	Sand		4	19
Gumbo		41	520	Sandy clay		24	43
Sand		30	550	Sand		8	51
Gumbo		20	570	Clay		55	106
Sandy shale		10	580	Sandy clay		20	126
Gumbo		36	616	Clay and caliche		30	156
Gumbo and shale		93	709	Sandy clay		16	172
Shale		70	779	Sand, clay, and caliche		44	216
Sandy shale		30	809	Soft shale		29	245
TOTAL DEPTH			932	Shale and layers of shell		23	268
				Shale		18	286

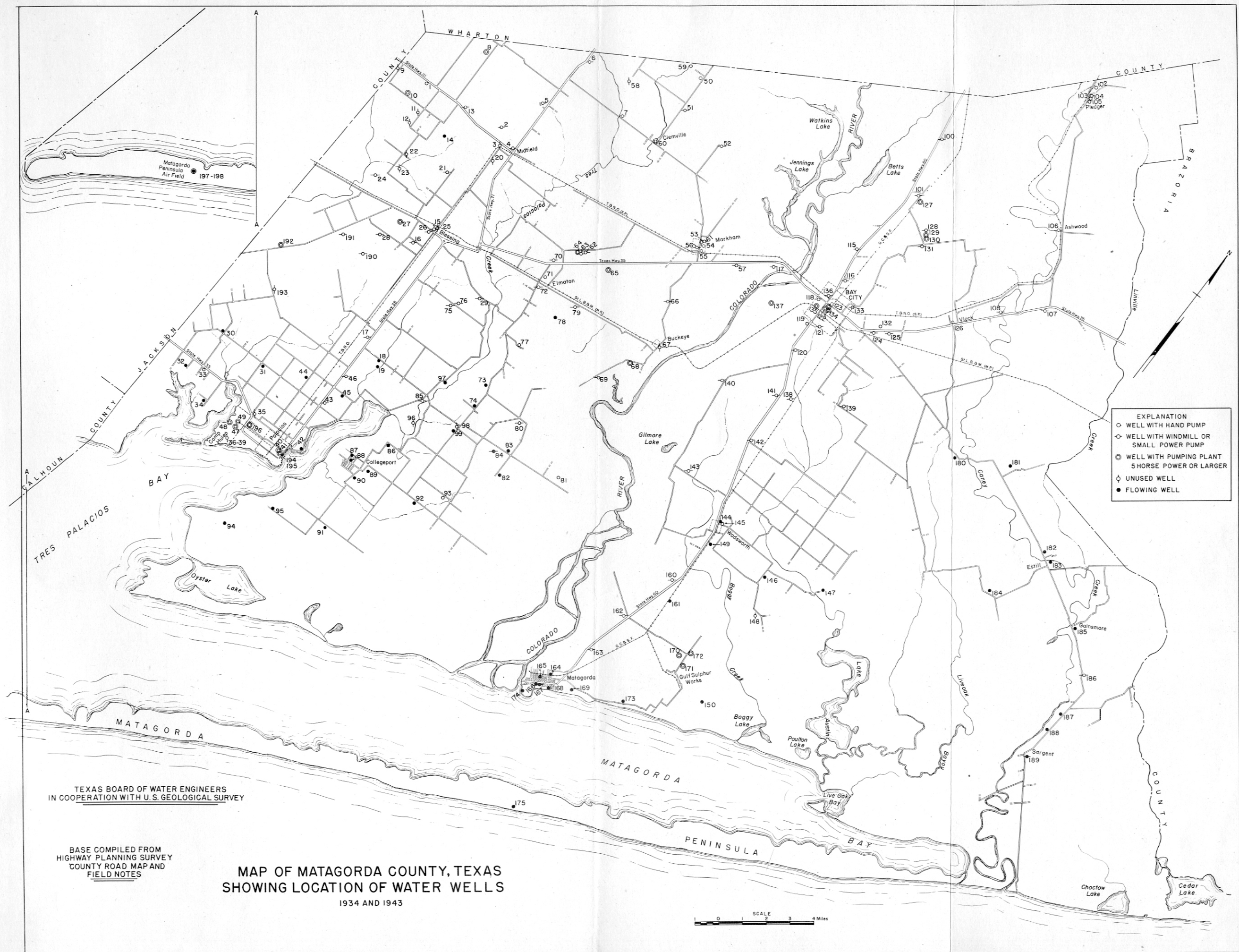
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Partial analyses of water from wells in Matagorda County, Texas

Analyzed by Margaret D. Foster, W. W. Hastings and J. H. Rowley. Results are in parts per million. Well numbers correspond to numbers in table of well records.

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Silica (SiO ₂)	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na+K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
1	J. A. Malcek	36	Oct. 24, 1934	483	-	-	84	33	66	532	93	28	1.0	0.05	345
15	A. B. Pierce	624	Apr. 8, 1944	339	18.	2.9	40	19	62	286	19	38	0.4	0.0	178
33	Turtle Bay School	361	Oct. 24, 1934	391	-	-	17	9.3	131	336	19	48	0.6	0.10	81
47	Camp Hulen	574	Oct. 18, 1942	432	18	0.03	4.4	1.9	165	330	18	62	0.3	0	19
54	Mrs. F.H. Chapman	110	Oct. 24, 1934	649	-	-	94	40	103	418	28	177	0.6	0.13	399
88	Collegeport Fig Orchard Co.	618	Oct. 25, 1934	515	-	-	6.1	3.1	203	379	16	100	-	0.0	140
102	C. L. Bundick	43	do.	594	-	-	98	25	101	568	68	20	0.5	1.5	348
107	W. F. Merritt	96	do.	629	-	-	90	29	120	524	35	96	0.9	0.10	344
118	Ellis Hammell	384	Oct. 26, 1934	342	-	-	29	11	95	308	16	38	0.9	0.08	118
122	City of Bay City	435	Apr. 6, 1943	315	13	3.1	33	14	70	268	12	40	0.2	0.2	140
123	do.	444	do.	318	14	0.12	35	15	63	258	16	38	0.2	0.2	149
134	do.	811	do.	426	19	0.68	46	20	89	316	21	74	0.6	0.0	197
145	Mrs. H. Huston	60	Oct. 25, 1934	589	-	-	102	17	108	413	8.1	150	0.3	0.20	325
147	G. D. Culver	454	do.	464	-	-	3.7	1.8	187	384	19	63	-	0.15	17
169	W. M. Dunbar	735	do.	621	-	-	4.2	1.7	252	422	2.3	152	1.2	.20	17
174	Brown & Root Inc.	773	June 11, 1943	601	16	0.45	4.4	1.2	236	464	a/2	103	1.1	0.0	16
175	U. S. Coast Guard	600+	do.	1,320	12	0.07	11	8.0	519	829	a/3	358	0.6	0.0	60
183	Mrs. G.E. Ratcliff	932	Oct. 25, 1934	1,653	-	-	21	8.7	628	383	1.8	802	2.7	.50	88
187	R. Sanborn	631	Oct. 26, 1934	1,009	-	-	18	6.3	377	486	84	281	2.7	.10	71
194	City of Palacios	607	Apr. 8, 1943	475	17	0.05	6.6	2.8	178	353	17	73	1.0	0.2	28
195	do.	590	do.	456	17	0.06	5.8	3.2	169	348	18	63	1.0	0.0	28
198	Matagorda Peninsula Flying Field	501	June 15, 1943	1,773	-	-	12	8.1	692	576	a/2	775	-	0.5	64

a/ By turbidity.



- EXPLANATION
- WELL WITH HAND PUMP
 - ◐ WELL WITH WINDMILL OR SMALL POWER PUMP
 - ⊗ WELL WITH PUMPING PLANT 5 HORSE POWER OR LARGER
 - ◻ UNUSED WELL
 - FLOWING WELL

TEXAS BOARD OF WATER ENGINEERS
 IN COOPERATION WITH U. S. GEOLOGICAL SURVEY

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

**MAP OF MATAGORDA COUNTY, TEXAS
 SHOWING LOCATION OF WATER WELLS**
 1934 AND 1943

