

JIM WELLS COUNTY, TEXAS

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

TEXAS STATE BOARD OF WATER ENGINEERS

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Prepared in cooperation with the United States  
Department of the Interior, Geological Survey

# JIM WELLS COUNTY, TEXAS

## Introduction

By

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This release contains records of wells in Jim Wells County, together with tables of well logs and well water analyses. It is illustrated by a map on which the wells listed are shown, each well being given a number on the map corresponding to the number assigned to it in the tables. The records were obtained during the summer and fall of 1933 by Samuel F. Turner, Walter A. Lynch and James C. Cumley in the course of an investigation by the Texas Board of Water Engineers in co-operation with the United States Department of the Interior, Geological Survey. Samples of water were taken from a large number of the wells and tested in the field to determine approximately the hardness of the water and its chloride content. Altogether about 400 wells fairly well distributed through the county are described in the tables.

The southern part of the county, from Ella to the Brooks County line, was studied more intensively and from these studies the following facts are summarized: altogether 157 wells were recorded and mapped in this part of the county in 1933, of which 139 are deep (300 to 900 feet) and the others shallow, of these wells 61 were used for irrigation as well as for domestic use and stock, with about 360 acres being irrigated or an average of about 6 acres to each well, the irrigated crops consisted mostly of citrus fruits and garden truck, the total withdrawal of ground water in this part of the county in 1933 was estimated as amounting to 700 to 800 acre-feet.

From a partial inventory, made in April 1940, it is estimated that there has been a reduction of approximately 60% in the total irrigated acreage as compared with that in 1933-34. The reduction has been due to the almost complete cessation of irrigation by the owners of the smaller citrus groves and to a reduction in the acreage of truck farms irrigated with ground water. However the farmers who have maintained operations are now irrigating more thoroughly, and as the groves are older and the trees larger, more water is used to the acre than was used in 1933-34. Therefore it is probable that there has been little change in the total amount of ground-water used for irrigation since 1933-34.

The public water supply of Alice, the county seat, is obtained from four wells (Nos. 153 to 156) ranging from 535 to 992 feet in depth. The average daily pumpage from these wells in 1938 varied from about 240,000 to about 450,000 gallons a day, and averaged 346,100 gallons a day. A fifth well (No. 410) was being completed at the time this was written. The town of Premont is supplied from a well (No. 418) 520 feet in depth, which is reported to yield about 120 gallons a minute.

Since the summer of 1933 periodic measurements of water levels in 10 selected wells have been made in the south central and southern parts of the county. Seven of these wells are less than 100 feet in depth, one is 125 feet, one is 475 feet and one is 629 feet in depth.

The records show that the water levels in the shallow observation wells fluctuates with the rainfall. Some of them were lower in October 1939 than they were in October 1933 and others were slightly higher. The deep wells apparently have

been affected to some extent by withdrawals of ground water for irrigation in this county and in an adjacent area in the northern part of Brooks County. One of the deep observation wells showed a net decline of 1-3/4 feet and the other a net decline of about 7 feet during the seven years.

In most of the county, water encountered at shallow depths is somewhat highly mineralized, although there are numerous exceptions to that rule. In general the best water is obtained from wells 250 to 700 feet deep in the south central and southern parts of the county.

The records given in this release serve as a guide to land owners and others who need information regarding wells and pumping plants in different parts of the area, and the quantity and quality of water yielded by the wells.

The publication was mimeographed by employees of the Work Projects Administration project No. 10443.

Records of wells in Jim Wells County, Texas  
(Principal water-bearing beds are sand or sandstone.)

No.	Distance from Orange Grove	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
1	17½ miles west northwest	L. Rodrigues	-	-	65	4	-	-
2	17 miles west northwest	O. Rodrigues	-	-	74	4	-	-
3	do.	Allegreia Est.	-	-	135	4	-	-
4	do.	Pedro Trevino	-	-	158	4½	-	-
5	16½ miles west northwest	Jose Maria Salinas	-	-	178	4	165	-
c/ 6	do.	School Dist. No. 16	G. Cosa	1930	80	4	-	-
7	16 miles west northwest	S. E. Smitherwick	-	-	170	4	-	-
8	15½ miles west northwest	Mrs. Tom Sheeran	-- Davis	1913	105	4	105	-
9	do.	H. Hyman	-	1927	158	4	-	-
10	15 miles west northwest	Mrs. R. Shaeffer	-	-	102	6	-	-
11	15½ miles west northwest	S. N. Smith	S. N. Smith	1930	118	4	115	3
12	do.	M. E. Ellicot	-	-	115	6	-	-
13	15 miles west northwest	J. T. Reeves	-	-	118	4	-	-
14	14 miles west northwest	Mrs. R. Shaeffer	-	Old	85	4½	-	-
15	13½ miles west northwest	E. R. Davidson	-	-	295	4¼	255	40
e/ 16	13 miles west northwest	S. M. Freeborn	A. C. White	1926	275	4¼	232	42
17	12 miles west northwest	Mrs. R. Shaeffer	-	-	200	6	-	-
18	16 miles west northwest	do.	-	1929	280	-	-	-
19	14½ miles west northwest	do.	-	-	200	-	-	-
20	12 miles west northwest	do.	-	-	90	6	-	-
21	14 miles west	do.	-	-	280	6	-	-

a/ Old, probably completed prior to 1910.

b/ H, hand pump or rope and bucket; W, windmill; A, air lift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

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

d/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo- ride	Hard- ness d/	
2	50.0	do.	H	D,S	220	500	do.
3	102	do.	H	N	1,100	1,300	
4	-	do.	W	D	440	460	
5	-	-	H	D,S	1,000	1,000	
6	50.2	Nov. 18, 1933	H	P	210	360	Well is near permanent pool in creek. 70 feet of 4 inch casing. Temperature 76° F.
7	-	-	W	D,S	170	370	
8	-	-	W	D,S	800	950	Struck water under hard rock.
9	-	-	W	D,S	340	500	First water at 90 feet.
10	-	-	W	S	1,200	1,400	
11	-	-	W	D,S	440	700	First water at 85 feet.
12	76.8	Nov. 16, 1933	W	S	440	550	
13	95.2	do.	W	S	-	-	
14	-	-	W	S	750	850	
15	-	-	W	D,S	500	500	
16	71.0	Mar. 21, 1934	W	D,S	400	400	Well cased to 232 feet.
17	-	-	W	S	700	700	
18	-	-	W	S	-	-	
19	-	-	W	S	-	-	
20	-	-	W	S	550	850	
21	-	-	W	D,S	-	-	

e/ For analysis of water see under well number in table pp 54 .

f/ Reported by driller.

g/ Measured by S. S. Nye, U. S. Geological Survey.

h/ Sulphate test by turbidity method and may be as much as 25 per cent error.

i/ T. U. Taylor, underground waters of Coastal Plain of Texas: U. S. Geological Survey, Water-Supply Paper 190, 1907.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Orange Grove	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
22	14 miles west	Mrs. R. Shaeffer	-	Old	80	-	-	-
23	14½ miles west	do.	-	1929	280	4½	-	-
24	17 miles west	do.	-	1928	380	4¼	350	30
25	15½ miles west	do.	-	Old	180	4¼	-	-
26	13½ miles west	do.	-	-	200	-	-	-
27	11½ miles west	do.	-	-	280	-	-	-
28	12 miles west	do.	-	-	190	-	-	-
29	do.	Mrs. R. Shaeffer No. 5	Gulf Production Co.	1932	3,044	6-5/8	-	-
30	10 miles west	T. L. Delemater	L. Jurgens	-	350±4¼	-	-	-
31	do.	Mrs. M. Stehle	-	-	400	4½	-	-
32	12 miles west northwest	Mrs. R. Shaeffer, No. 4	Gulf Production Co.	1931	2,362	6-5/8	-	-
33	10 miles northwest	Mrs. R. Shaeffer, No. 3	do.	1931	2,861	10	-	-
34	8 miles northwest	Mrs. R. Shaeffer, No. 2	do.	1931	3,007	6-5/8	-	-
35	7½ miles west northwest	M. T. Kelso	J. Cemisack	1925	248	3	239	9
36	6½ miles west northwest	Dr. C. Frey	L. Jurgens	1934	212	4½	174	30
37	5½ miles north northwest	Charles Cook No. 1	Magnolia Petroleum	1929	4,795	12½	-	-
38	4½ miles north northwest	John Benson	-	Old	80	4¼	-	-
39	3½ miles north northwest	H. Fuhrken	A. C. White	1932	341	6	-	-
40	3 miles north northwest	A. C. Fuhrken	David Usel	1913	125	4½	-	-
41	4 miles southwest	-- Smith	L. Jurgens	1933	256	4	236	20
42	¾ mile west	L. A. Straub	-	-	175	4	-	-
43	¼ mile north	B. Cornelius	L. Jurgens	1925	245	4	-	-
44	In Orange Grove	Mrs. G. R. Teller	J. Cemisack	1927	217	5	-	-
45	6 miles north northeast	-- Wade, No. 1	Simms Oil Co.	-	2,966	-	-	-

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power $\frac{b}{}$	Use of water $\frac{c}{}$	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness $\frac{d}{}$	
22	-	-	W	D,S	-	-	Small supply of water.
23	114.2	Feb. 1, 1934	W	S	1,000	950	
24	-	-	W	S	500	600	Two good sands above 350 feet.
25	-	-	W	S	1,400	1,600	
26	-	-	W	S	-	-	
27	-	-	W	S	220	430	
28	-	-	W	S	-	-	
29	-	-	-	-	-	-	Oil test. Initial pro-estimated at 7,000,000 cubic feet of gas a day <sup>i/</sup>
30	133.4	Jan. 25, 1934	W	D,S	500	370	Small supply of water reported.
31	164.7	do.	W	D,S	750	1,000	
32	-	-	-	-	-	-	Oil test. No production reported. <sup>i/</sup>
33	-	-	-	-	-	-	Oil test. No production. <sup>i/</sup>
34	-	-	-	-	-	-	do.
35	-	-	W	D,S	-	-	Casing; 239 feet of 3 inch. First strata at 157 feet. Weak supply.
36	-	-	-	N	-	-	New well, pump not yet installed.
37	-	-	-	-	-	-	Oil test. No production.
38	66.5	Feb. 10 1934	W	D,S	150	420	Reported water level as 15 to 20 feet below surface about 1914.
39	101.3	Feb. 6, 1934	-	N	-	-	Well drilled to supply water for drilling <sup>i/</sup>
40	105.5	do.	W	D,S	850	950	oil test.
41	-	-	W	S	-	-	Casing; 256 feet of 4 inch with bottom 20 feet perforated. First water stratum found at 125 feet.
42	-	-	W	D,S	-	-	
43	-	-	W	D,S	-	-	Casing; 209 feet of 4 inch.
44	150.6	Mar. 21, 1934	W	D	500	500	Cased to bottom. Temperature 78° F.
45	-	-	-	-	-	-	Oil test. No production.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Orange Grove	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
e/ 46	5 miles east northeast	Tom Bowden	W. C. David	1931	115	4 $\frac{1}{4}$	112	3+
47	7 $\frac{1}{2}$ miles northeast	W. Bruni, No. 1	Simms Oil Co.	-	2,737	-	-	-
48	9 miles northeast	A. T. Teller	A. T. Teller	1930	72	4 $\frac{1}{4}$	70	2+
49	7 $\frac{1}{2}$ miles northeast	Harry Cade	-	-	110	4	-	-
50	3 $\frac{1}{2}$ miles east	Mrs. W. Wiechring	-	Old	192	4 $\frac{1}{4}$	-	-
51	2-3/4 miles southeast	F. B. Boerner	-	Old	150	5-3/16	-	-
52	4 $\frac{1}{2}$ miles south	-- Ragland, No. 1	R. & G. Corporation	1929	3,003	10	-	-

No.	Distance from Alice	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
53	14 miles northwest	Eduardo Barrera	R. A. Raba	1928	273	4	-	-
54	13 $\frac{1}{2}$ miles northwest	do.	-	1922	240	4	-	-
55	13 miles northwest	G. B. de Garcia	-	Old	80	-	-	-
56	do.	Francisco Barrera	F. G. Garcia	1914	150	5	-	-
57	12 $\frac{1}{2}$ miles northwest	G. B. de Garcia	-	Old	90	4	-	-
58	12 miles northwest	James Luby, Est.	-	-	131	4	-	-
59	do.	M. E. Barrow	-	-	142	4	-	-
60	13 $\frac{1}{2}$ miles northwest	James Luby, Est.	-	-	155	5	-	-
61	13 miles northwest	do.	-	-	110	5	-	-
62	13 $\frac{1}{2}$ miles northwest	Mrs. R. Shaeffer	-	1928	400	-	-	-
63	12 $\frac{1}{2}$ miles northwest	Black & Beall	-	-	-	6	-	-
64	12 miles northwest	D. Saueda	-	1908	126	4	-	-
65	do.	Nestor Villareal	Juan Hinojosa	1860	62	72	-	-
66	do.	J. B. Resendes	-	1925	110	4	-	-
e/ 67	do.	Manuel Trejo	L. Rodrigues	1926	150	4 $\frac{1}{4}$	145	5
68	11 $\frac{1}{2}$ miles northwest	Felix Trejo	-	-	105	-	-	-
69	do.	James Luby, Est.	-	-	147	5	-	-
70	11 miles north	W. T. Wright	-- Turner	1903	206	6	-	-



(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo- ride	Hard- ness d/	
47	-	-	-	-	-	-	Oil test. No production.
48	42.4	Feb. 6, 1934	H	D,S	75	420	Casing; 68 feet of 4 $\frac{1}{2}$ inch.
49	77.6	do.	W	D,S	240	420	
50	120.0	do.	W	D,S	700	750	
51	-	-	W	D,S	550	500	
52	-	-	-	-	-	-	Oil test. No production.

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo- ride	Hard- ness	
54	-	-	W	S	-	-	200 feet of 4 inch casing. First water at
55	-	-	W	D,S	-	-	Dug well, 60 feet, bad.
56	-	-	W	D,S	-	-	
57	-	-	W	D,S	-	-	Originally dug well 85 feet deep. Drilled to 90 feet in 1905 and filled
58	-	-	W	D,S	700	850	Dug well around casing to 63 feet, drilled to
59	-	-	W	D,S	650	900	131 feet
60	-	-	W	D,S	-	-	
61	-	-	W,H	N	-	-	
62	-	-	W	S	-	-	
63	89.9	Nov. 22, 1933	W	D,S	1,200	650	
64	59.3	do.	W	D,S	800	850	
65	56.9	do.	W	D,S	1,300	1,500	Dug well, cypress curbing to 50 feet.
66	-	-	H	D,S	450	450	
67	64.9	Mar. 21, 1934	W	D,S	1,000	850	145 feet of 4 $\frac{1}{4}$ inch casing.
68	60	-	W	D,S	1,900	1,500	
69	-	-	W	D,S	650	1,100	
70	-	-	W	D,S	1,000	1,100	

## Records of wells in Jim Wells County -- Continued

No.	Distance from Alice	Owner	Driller	Date completed a/	Depth of well (ft.)	Water-bearing bed		
						Diameter of well (in.)	Depth to top of bed (ft.)	Thickness of bed (ft.)
71	12 miles northwest	Francisco Gonzales	-	-	125	-	-	-
72	11½ miles northwest	Cumilo Palacios	-	-	125	-	-	-
73	11 miles northwest	James Luby, Est.	-	Old	236	5	-	-
74	do.	Mrs. Martha Gonzales	-	1890	78	60	-	-
75	do.	R. Robles	-	1910	85	60	-	-
76	10½ miles northwest	Amando G. Martinez	-	-	154	5	-	-
77	do.	James Luby, Est.	-	-	137	6	-	-
78	10 miles northwest	Juanita V. Everette	-	1888	62	72	-	-
78a	do.	do.	-	1908	200	6	-	-
79	10 miles north northwest	Francisco Gonzales	Panteleon Rostro	1850 ?	68	72	-	-
80	9½ miles north northwest	Clemente Hinojosa	-	1921	130	4	-	-
81	do.	Antonio Perez	-	-	226	-	-	-
82	do.	Clemente Hinojosa	-	1909	200	6	-	-
83	11 miles north northeast	L. Jurgens	-	1910 ?	160	4¼	-	-
84	10 miles north northeast	W. V. Perry	John Riggins	1921	290	5	270	20
85	do.	School Dist. No. 12	-	1914	267	4¼	-	-
86	9½ miles north northeast	B. Cornelius	L. Jurgens	-	243	4	-	-
87	8 miles northeast	J. H. Hoelscher	-	1913	255	6	-	-
88	7 miles northeast	Alamo National Bank	-	1927	429	4	390	429
e/ 89	6 miles north northeast	W. S. Wimbs	-	1928	431	6	-	-
90	6½ miles northwest	W.B. Gregory	W.B. Gregory	-	150	6	-	-
91	4¼ miles north	San Antonio Loan & Trust Co.	Whitson Bros.	1926	375	4¼	363	12
92	5 miles northeast	W. C. Wedimeyer	-	1926	417	4¼	-	-
93	7½ miles northeast	V. E. Bird	Whitson Bros.	1925	314	6	295	19

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	
71	-	-	W	D,S	-	-	
72	-	-	W	D,S	-	-	
73	-	-	J,G,-	S	1,100	1,800	Water used for irrigation until 5 years ago when the water became salty.
74	63.0	Nov. 21, 1933	W	D,S	750	800	Dug well.
75	72.0	do.	W	D,S	1,100	1,800	Dug well 85 feet deep with uncased, drilled
76	-	-	W	D,S	-	-	well 12 feet deeper.
77	-	-	W	S	-	-	Well was originally dug 110 feet deep, drilled to 137 feet and filled
78	54.2	Nov. 10, 1933	-	N	1,000	2,000	Dug well. around casing. Was used until 1908 when well was drilled deeper.
78a	60.4	do.	W	D,S	750	1,200	Casing of drilled well stands above water in
79	62.4	Nov. 12, 1933	-	N	-	-	Dug dug well, No. 78. well.
80	63.4	Nov. 9, 1933	W	S	-	-	60 feet of 4 inch casing.
81	135.8	Nov. 12, 1933	W	D,S	-	-	
82	86.0	Nov. 9, 1933	W	D,S	-	-	Owner reports this well has small supply of water.
83	-	-	W	D,S	-	-	
84	-	-	J,G	D,S	950	650	Water reported recently turned salty.
85	-	-	W	P	400	270	
86	-	-	W	D,S	-	-	Original well 105 feet deep, deepened for more
87	-	-	W	S	-	-	dependable supply.
88	90.0	Feb. 1, 1934	A,G,-	D,S	650	500	
89	96.8	Feb. 10, 1934	A,G,-	D,S	650	600	
90	35.6	Nov. 15, 1933	W	D,S	-	-	Originally had old dug well 35 feet deep.
91	-	-	W	D,S	750	550	Casing; 6 inches at surface and 4 $\frac{1}{4}$ inch set at 375 feet with lower
92	91.1	Jan. 26, 1934	W	D,S	650	440	Cas- 8 feet perforated. ing; 284 feet of 5 inch and 220 feet of 4 $\frac{1}{2}$ inch with bottom joint perfor-
93	105.2	Feb. 8, 1934	W	D,S	700	440	ated.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Alice	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
94	8 miles northeast	John Bird	Whitson Bros.	1925	348	6	328	20
e/ 95	9 miles northeast	E. Whitley	-	1905	1,600	12½	-	-
e/ 96	9¼ miles northeast	Hayden and Reeves	-	-	175	-	-	-
97	9 miles east northeast	E. Sain	Frank Whitson	1932	521	4¼	515	6+
98	4 miles north northeast	Temple Lumber Co.	-	-	380	6	-	-
99	3¼ miles north	Pablo Perez	-	-	45	48	-	-
99a	do.	do.	-	-	112	6	-	-
100	1-3/4 miles north	Mrs. Vera Blinka	Whitson Bros.	1925	336	6	308	28
101	9½ miles west northwest	N. A. Hoffman	-	1900 ?	138	6	-	-
102	do.	James Luby, Est.	-	Old	71	60	-	-
103	9 miles west northwest	M. J. Luby	-	-	95	6	-	-
104	do.	R. C. Elliot	-	-	197	4	-	-
105	7 miles west northwest	Otto Brandt	-	-	260	4	-	-
106	8½ miles northwest	Hawkins and Wallis	Tom Leary	1906	1,866	8¼	545 1,550	5 20
107	7 miles northwest	M. L. Luby	-	-	349	-	-	-
108	9 miles west	J. H. Reynolds	Joe Gonzales	1927	114	6	-	-
e/109	do.	M. J. Luby	-	Old	87	5	-	-
110	do.	Lawrence Tiblier	-	-	135	4	-	-
111	8 miles west	Lucio Arredondo	Ernest Riley	1919	120	5	-	-
112	do.	Reguilo Gomez	-	1913	130	4	-	-
e/113	7 miles west	James Walker	-	-	50	6	-	-
e/114	do.	C.F. Longwish, Est.	-	Old	53	6	-	-

a/ Old, probably completed prior to 1910.

b/ H, hand pump or rope and bucket; W, windmill; A, air lift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

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

d/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power	Use of water	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness	
94	107.3	Feb. 8, 1934	W	D,S	800	550	Casing; 6 inch at surface and 4 $\frac{1}{4}$ inch to 348 feet with bottom 20 feet perforated.
95	91.0	do.	W	D,S	600	270	
96	-	-	W	D S	600	550	
97	82.4	Feb. 8, 1934	W	D,S	450	350	Casing; 521 feet of 4 $\frac{1}{2}$ inch.
98	-	-	W	D,S	1,500	1,200	
99	31.3	Nov. 2, 1933	-	D,S	-	-	Dug well, too weak for use during dry weather.
99a	31.3	do.	W	D,S	-	-	Drilled well in bottom of dug well, No. 99, with casing perforated so both stratas are connected.
100	-	-	W	D,S	-	-	Casing; 6 inch at surface and 4 $\frac{1}{4}$ inch to 336 feet with lower 20 feet perforated.
101	-	-	H	N	-	-	
102	65.5	Nov. 27, 1933	W	S	450	650	Dug well.
103	62.3	do.	W	S	-	-	
104	-	-	W	S	-	-	
105	-	-	W	D,S	-	-	
106	18. g/102.8	1933 Mar. 3, 1928	-	N	-	-	Well abandoned, plugged at 56 feet.
107	-	-	-	-	-	-	
108	-	-	W	D,S	220	230	15 feet of 6 inch casing.
109	37.5	Jan. 4, 1934	H	N	-	-	
110	61.0	do.	W	D,S	500	400	
111	-	-	W	D,S	410	450	14 feet of 5 inch casing.
112	-	-	H	D,S	1,200	1,300	20 feet of 4 inch casing.
113	34.0	Jan. 8, 1934	W	D,S	120	290	Small garden irrigated.
114	35.9	do.	-	N	-	-	

e/ For analysis of water see under well number in table pp. 54 .

f/ Reported by driller.

g/ Measured by S. S. Nye, U. S. Geological Survey.

h/ Sulphate test by turbidity method and may be as much as 25 per cent in error.

i/ T. U. Taylor, underground waters of Coastal Plain of Texas: U. S. Geological Survey, Water-Supply Paper 190, 1907.

Records of wells in Jim Wells County -- Continued

No.	Distance from Alice	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
115	7 miles west	A. Koopmann	-	Old	265	6	-	-
e/116	do.	A. L. Stokes	Tom Leary	1907	1,500	5-3/16	-	-
117	7½ miles west	Mrs. H. F. Clark	Clyde Miller	1918	350	4¼	-	-
118	7 miles west southwest	A. Bowen	R. Albert	1927	89	6	-	-
119	8 miles west southwest	P. T. Wright	-	1916	120	4	-	-
120	7½ miles west southwest	G. J. Paschall	Ernest Riley	1929	160	5-3/16	-	-
121	6½ miles west southwest	John Stromberg	J.W. Davis	1913	147	5-3/16	-	-
122	5½ miles west	J. S. Floyd	-	-	68	2½	-	-
123	do.	do.	Joe Gonzales	1931	456	6-5/8	-	-
124	do.	O. W. Schmidt	A. C. White	1928	310	6	290	20
125	4¼ miles west	Ernesto Uresta, et al.	-	1908 ?	85	3½	-	-
123	4½ miles west southwest	Holmgreen and Martins	-	1910 ?	130	4	-	-
127	5 miles southwest	Wm. Franks	R. Albert	1932	188	4	-	-
128	do.	do.	-	-	110	4	-	-
129	7 miles southwest	W. E. Book	A. C. White	1926	360	5-3/16	300	58
130	do.	C. A. Austin	do.	1930	234	4¼	216	18
131	3½ miles west	Pablo Pena	-	-	-	3	-	-
e/132	3¼ miles west	Anastacio Lopez	Nicolas Martinez	-	120	5	-	-
133	3 miles west	David Pena	-	-	400+	4	-	-
134	3¼ miles southwest	W. R. Perkins	-	-	141	6	-	-
135	3-3/4 miles southwest	Taylor Bros.	R. A. Albert	1929	206	4	-	-
136	4-3/4 miles southwest	Richard Albert	do.	1933	122	4	110	17
137	5 miles southwest	Otto Goldapp	do.	1925	191	5-3/16	182	8
138	5½ miles southwest	W. J. Schutte	do.	1925	218	4¼	208	10
139	6 miles southwest	L. A. Schutte	R. Albert & A. C. White	1925 1933	351	4½	115 208 325	10 2 26

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests (parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	
115	109.0	Jan. 8, 1934	W	D,S	190	170	
116	-	-	W	D,S,I	210	120	Small garden irrigated.
117	-	-	W	D,S	900	750	
118	60.9	Jan. 10, 1934	W	D,S	900	800	Very weak supply.
119	91.1	Jan. 5, 1934	W	D,S	1,100	1,000	
120	-	-	W	D,S	1,400	1,200	Casing; 145 feet of 5-3/16 inch. Had old well 80 feet deep, reported as weak supply and bad water.
121	-	-	W	D,S	1,300	1,400	Very little casing in well.
122	55.0	Jan. 7, 1933	-	N	1,500	1,200	Dug well.
123	102.8	do.	W	D,S,I	380	370	Casing; 250 feet of 6-5/8 inch balance uncased. Garden irrigated.
124	-	-	W	D,S	500	400	Casing; 310 feet of 6 inch.
125	56.9	Jan. 16, 1933	W	D,S	480	550	
126	93.0	Jan. 8, 1934	W	D,S	1,500	1,800	Well on property line.
127	-	-	W	D,S	1,500	1,500	Casing; 185 feet of 4 inch.
128	-	-	-	N	1,100	750	Well abandoned because of bad water.
129	-	-	J,G,-	D,S	550	380	Casing; 300 feet of 5-3/16 inch.
130	-	-	W	D,S	1,000	650	Other sands at 90 and 130 feet reported as bad water.
131	60.0	Jan. 16, 1933	W	D,S	450	550	
132	57.95	Jan. 3, 1934	W	D,S	800	850	
133	61.1	Jan. 16, 1933	W	D,S	450	600	
134	102.9	Jan. 10, 1934	W	D,S	1,300	1,100	
135	92.6	Jan. 9, 1934	W	D,S	2,800	2,600	Casing; 200 feet of 4-inch. Water was good until about one year ago. Casing leaks now.
136	-	-	-	N	-	-	
137	96.3	Jan. 5, 1934	W	D,S	900	750	Casing; 185 feet of 5-3/16 inch.
138	-	-	W	D,S	450	470	Casing; 209 feet of 4 1/4 inch. Original well, 239 feet deep, was too weak,
139	-	-	W	D,S	460	330	deepened to 351 feet for larger supply. Casing; 200 feet of 4 1/4 inch, 160 feet of 3 1/4 inch with bottom 30 feet perforated.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Alice	Owner	Driller	Date completed a/	Depth of well (ft.)	Water-bearing bed		
						Diameter of well (in.)	Depth to top of bed (ft.)	Thickness of bed (ft.)
140	5 miles south southwest	Chas. Stillwell	Ignacio Trevino	1924	138	4 $\frac{1}{4}$	-	-
141	1-3/4 miles west	-- Norton	-	-	-	4 $\frac{1}{4}$	-	-
e/142	1 $\frac{1}{4}$ miles west	J. B. Polk	-	1924	129	5-3/16	128	1 $\frac{1}{2}$
143	2 $\frac{1}{4}$ miles south southwest	Taylor Bros.	A. C. White	1926	380	4	360	20
144	1-3/4 miles south	Geo. A. Clegg	-	1905 ?	863	4	-	-
145	2-3/4 miles south	S. C. Ingram	-	1910 ?	460	3 $\frac{1}{4}$	-	-
146	4 miles south	B. J. Lyan	A. B. Fuller	1909	521	5	-	-
147	$\frac{1}{4}$ mile west	B. A. Kempe	A. C. White	1930	140	6	111 133	9 7
148	Alice	City of Alice	Layne Texas	1928	751	12	376 482	30 56
149	$\frac{1}{4}$ mile west	Central Power & Light Co.	A. C. White	1925	560	6	505	55
150	Alice	do.	do.	1928	120	6	107	13
e/151	$\frac{1}{4}$ mile west	Alice Cotton Oil Mill	A. B. Fuller	1909	544	6	500	44
152	Alice	do.	do.	1927	141	6	-	-
e/153	do.	City of Alice No. 4	-	1938	622	5	600	22
154	do.	City of Alice No. 3	-	1936	535	5	400 510	23 25
e/155	do.	City of Alice No. 2	Whitson Bros.	1920	550	5-3/16	502	33



(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness d/	
140	83.2	Jan. 8, 1934	W	D,S	800	600	
141	93.6	Jan. 16, 1933	W	D,S	350	280	Small garden irrigated.
142	90.2	Feb. 4, 1933	W	D,S	-	-	129 feet of 5-3/16 inch casing.
143	-	-	W	D,S	430	180	380 feet of 4 inch casing.
144	-	-	W	D,S	340	40	
145	-	-	W	D,S	3,000	3,000	Water was good when well was completed.
146	107.8	Jan. 9, 1934	W	D,S	650	250	
147	80.9	Jan. 15, 1934	J,E,-	D,S	95	200	Water used to make ice by C. P. & L. Co.
148	120.8	Jan. 3, 1934	-	N	-	-	Casing; 378 feet of 12 inch, 200 feet of 6 inch with 36 foot lap and strainers from 378 to 408 and 483 to 539. Water level reported as 115 feet when completed, June 9, 1928. f/
149	<u>g/</u> 123.2 133.3	Mar. 3, 1928 Jan. 15, 1934	A,E,-	Ind.	650	220	Casing; 505 feet of 6 inch. Used for cooling purposes.
150	84.5	Mar. 3, 1928	-	N	-	-	This well was abandoned, filled to 78 feet and was dry Jan. 3, 1934.
151	-	-	A,E,-	Ind.	460	700	Used for cooling purposes.
152	-	-	-	-	-	-	Reported to have had good water but weak supply. Now abandoned.
153	-	-	A,O,-	P	-	-	
154	143.2	Jan. 15, 1934	A,O,-	P	450	210	
155	-	-	A,O,-	P	430	230	502 feet of 5-3/16 inch casing. Temperature 82°F.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Alice	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
156	Alice	City of Alice No. 1	Layne Texas	1928	992	16	837 945	24 43
157	-	-- Curlock	-	-	-	-	-	-
158	1 mile south	J. A. Rohans	Martinez Martinez	1920 ?	140	4	-	-
159	do.	A. F. Blaschke	-	1926	540	4	-	-
160	1½ miles south southeast	W. W. Thigben	-	-	135±	4	-	-
161	2½ miles south southeast	Emma Little	-	-	-	5	-	-
162	1½ miles southeast	F. A. Goldapp	A. C. White	1917	154	3	-	-
163	2 miles east	J. A. Smith	-	-	142	5	-	-
164	3½ miles northeast	C. A. Williams	A. C. White	1926	395	5	-	-
165	4 miles northeast	F. V. Nicholas	do.	1928	443	4½	405	38
166	3¼ miles east	F. A. Goldapp	do.	1926	138	4	-	-
167	5-3/4 miles east northeast	L. Muil	D. Redner	-	340	5	-	-
168	7 miles east	G. W. Hammick	-	1910	110	4½	-	-
169	4 miles southeast	John Boepple	J. Boepple	1933	79	6	64	15
170	4½ miles south southeast	R. R. Mullins	-	-	-	4	-	-
171	6 miles east southeast	Martindale Loan Co.	Whitson Bros.	1924	105	4½	100	5

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests (Parts per million)		Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hardness d/	
156	g/ 55.5 58.5	Feb. 27, 1928 Jan. 2, 1934	T, E, 40 H.P.	P	270	110	Well drilled to 2,068 feet. Casing; 250 feet of 16 inch, 1,108 feet of 8 inch with 12 foot lap into 16 inch, 653 feet of 6 inch with 16 foot lap into 8 inch and 89 feet of 4 inch with swedge nipple. Strainers set at 837 to 867, 945 to 986, 1,078 to 1,139, 1,280 to 1,327, and 1,958 to 2,004 feet. Well tested, then plugged at 1,347 feet, tested again and plugged at 992 feet. See analysis table for analyses of water from various strata.
157	85.5	Jan. 27, 1933	W	D, S	550	700	
158	-	-	W	S	2,600	1,500	Temperature 76° F.
159	90.0	Jan. 27, 1933	J, G, -	D, S	800	600	
160	80.6	do.	W	S	3,000	2,300	Sulphate 900 parts per million. h/
161	94.6	Feb. 24, 1933	W	S	1,800	1,400	
162	74.2	Jan. 15 1934	W	D, S	600	400	
163	75.6	do.	W	D, S	1,100	1,000	
164	-	-	W	D, S	550	370	Casing; 300 feet of 4 inch, 100 feet of 3 $\frac{1}{4}$ inch with 2 feet perforated.
165	-	-	J, G, -	P	800	350	443 feet of 4 $\frac{1}{4}$ inch casing with 42 feet perforated.
166	82.0	Jan. 15, 1934	W	S	2,000	1,400	138 feet of 4 inch casing.
167	100.4	Feb. 19, 1934	W	D, S	1,100	750	
168	93.4	Feb. 9, 1934	W	D, S	-	-	
169	-	-	H	D, S	280	210	10 feet of 6 inch casing. Water found in Caliche.
170	68.1	Jan. 27, 1933	W	S	1,700	1,000	
171	72.3	Jan. 15, 1934	W	D, S	-	-	

## Records of wells in Jim Wells County -- Continued

No.	Distance from Ben Bolt	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
172	3-3/4 miles northeast	August Doring	-	-	448	5-3/16	-	-
173	3 1/2 miles northeast	Deering No. 1	Diamond S. Oil Co.	-	4,344	-	-	-
174	2-3/4 miles north northeast	C. E. Savage	-	1929	480	5-3/16	-	-
e/175	2 miles north northeast	W. F. Botard	John Riggins	1921	349	3	-	-
176	4 miles northeast	Mary Shear	A. C. White	1926	460	3 1/2	-	-
177	5 miles east northeast	E. L. Kelly	-	1916 ?	198	4	-	-
178	6 1/2 miles east northeast	Magnolia Colony	Tom Leary	1909	1,510	4 1/4	435 880	35 38
179	3 miles east	W. E. Seefeld	-	-	90 ?	-	-	-
180	4 1/2 miles east	Pedro Garcia	-	-	-	-	-	-
181	1 1/2 miles east	Romana V. de Garcia	A. C. White	-	460	4 1/4	420	40
182	1-3/4 miles north northwest	J. W. Startz	L. Jurgens	1920	130	4	-	-
183	3 1/2 miles west	do.	-	1923 ?	135	6	-	-
184	2 1/2 miles west	J. J. White	A. C. White	1926	423	4 1/4	383	40
185	1 1/2 miles west	C. E. Stacy	-	-	130	4	-	-
186	2 1/2 miles west southwest	N. A. Hoffman	-	-	-	-	-	-
187	1 mile west southwest	W. A. Sodek	-	-	110	3	-	-
188	1/4 mile west southwest	J. P. Blake	-	-	-	4 1/4	-	-
189	Ben Bolt	School Dist. No. 7	A. C. White	1934	398	4 1/4	345	50

a/ Old, probably completed prior to 1910.

H, hand pump or rope and bucket; W, windmill; A, air lift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

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

/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power	Use of water	Field tests			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			parts per million	Chloride	Hardness	
172	89.5	Jan. 27, 1933	W	D,S	1,200	1,300	-	
173	-	-	-	N	-	-	-	Oil test. No production.
174	-	-	W	D,S	700	400	-	
175	-	-	W,E	D,S	330	120	-	Irrigates small garden.
176	-	-	W	D,S	330	120	-	460 feet of 3-1/3 inch casing.
177	-	-	W	S	4,800	2,800	-	Unfit for domestic use. Cattle do not like to drink it.
178	67.2	Feb. 5, 1934	W	D,S	340	150	-	Water became salty in 1928. Well repaired by inserting 250 feet of 4 1/4 inch casing with packer in end and cementing between new and old
179	-	-	W	S	650	550	-	Tile at casings, top.
180	-	-	W	S	2,200	1,300	-	
181	-	-	W	D,S	330	140	-	460 feet of 4 1/4 inch casing.
182	-	-	W	D,S	1,600	1,500	-	130 feet of 4 inch casing.
183	108.1	Jan. 10, 1934	W	D,S	2,000	1,900	-	Not used for drinking. Hard rock from 23 feet nearly to bot-
184	82.7	do.	W	D,S	500	140	-	390 feet of tom. 4 1/4 inch casing.
185	-	-	W	S	4,000	2,000	-	8 feet of 4 inch casing at top. Rock to
186	-	-	W	S	1,000	600	-	bottom.
187	-	-	W	S	2,400	1,400	-	
188	-	-	W	D,S	280	130	-	
189	104.4	Feb. 1, 1934	W	P	600	320	-	398 feet of 4 1/4 inch casing with bottom 20 feet perforated. Weak water stratas at 90, 160 and 260 feet.

e/ For analysis of water see under well number in table pp. 54.

f/ Reported by driller.

g/ Measured by S. S. Nye, U. S. Geological Survey.

h/ Sulphate test by turbidity method and may be as much as 25 per cent in error.

i/ T. U. Taylor, underground waters of Coastal Plain of Texas: U. S. Geological Survey, Water-Supply Paper 190, 1907.

Records of wells in Jim Wells County -- Continued

No.	Distance from Ben Bolt	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
190	1/4 mile east	C. E. Stacy	Teodolo Martinez	-	114	4	98	2
e/191	Ben Bolt	Romana V. de Garcia	Pete Christensen	1924	500	5	385 450	- 40
192	3/4 mile south	Mrs. Maggie Kinney	-- Morris	-	395	4 1/4	-	-
193	8 1/2 miles west	M. Morales	-	Old	40±	40	-	-
194	8 miles west	Ferman Lopez	-	-	90	4 1/4	-	-
195	8 1/2 miles west	Pedro G. Lopez	-	1915 ?	80	5-3/16	-	-
196	do.	Santos Garcia	F. Foster	1910	90	4 1/4	-	-
197	do.	Ysidro Saenz	-	1910 ?	70	8	-	-
198	do.	Eduardo Lopez	-	1930	100	6-5/8	-	-
199	do.	Ferman Lopez	-	1910 ?	60	-	-	-
200	6 miles west southwest	C. D. Fitzimmons	Dick Howard	1903	165	6-5/8	-	-
201	8 1/2 miles west southwest	Santos Garcia	Francisco G. Chacon	1918	87	5-3/16	-	-
202	8 miles west southwest	do.	do.	1918	97	8	-	-
203	do.	Dan Tobin	-	1930	100±	6-5/8	-	-
204	do.	Jesus Tobin	-	1903	50	-	-	-
205	7 miles west southwest	Norman Fitzimmons	-	1905	165	5-3/16	-	-
e/206	do.	Emilia Barrera	Emilia Barrera	1880 ?	75	48	-	-
207	6 1/2 miles west southwest	Roman Saenz	Tiodelo Martinez	1920	99	5-3/16	-	-
208	6 miles west southwest	N. A. Hoffman	-	-	-	4 1/4	-	-
209	4 1/2 miles west southwest	do.	-	-	-	5-3/16	-	-
210	6 1/2 miles west southwest	Jose Garza	-	1923	-	5-3/16	-	-
211	3-3/4 miles west southwest	N. A. Hoffman No. 1	Stanolind Oil & Gas Co.	1931	6,464	12 1/2	-	-
212	do.	N. A. Hoffman	-	1931	-	-	-	-
213	2-3/4 miles southwest	do.	-	1929	450	5-3/16	-	-
214	8 miles southwest	Miguel Y Ygnacio Cadena	Miguel Cadena	1910 ?	98	-	-	-

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness d/	Sul-phate	
190	97.8	Jan. 11, 1934	W	D,S	950	650	-	
191	- 93.4	- Mar. 20, 1934	W	D,S	250	110	-	Temperature 81° F.
192	-	-	W	D,S	650	450	-	Reported that water becomes brackish in
193	28.5	June 30, 1933	H	D S	625	1,100	100	Dug dry weather. well.
194	43.2	do.	W	D S	15	450	50	
195	-	-	W	D,S	190	440	70	
196	-	-	W	D,S	600	1,000	80	20 feet of 4½ inch casing.
197	42.8	June 30, 1933	W	D,S	700	1,100	200	
198	-	-	W	D,S	600	600	100	3 feet of 6-5/8 inch casing at top, uncased through rock to
199	31.9	June 30, 1933	W	D,S	180	490	50	No casing 100 feet. used.
200	-	-	W	S	650	700	-	20 feet of 6-5/8 inch casing at top, uncased to bottom.
201	33.8	June 30, 1933	W	D,S	300	460	60	
202	35.5	do.	W	D,S	600	700	100	Tile casing used.
203	57.3	do.	W	D,S	1,400	1,700	200	
204	-	-	W	S	100	400	20	
205	-	-	W	D,S	650	700	100	124 feet of 5-3/16 inch casing.
206	56.0	June 30, 1933	W	D,S	720	1,600	160	Dug well.
207	77.0	June 29, 1933	W	D,S	915	1,500	-	
208	-	-	W	D,S	700	700	-	
209	-	-	W	S	1,800	1,600		
210	-	-	W	D,S	900	900	-	
211	-	-	-	-	-	-	-	Oil test. No production.
212	-	-	J,G,-	S	320	140	-	
213	88.2	June 29, 1933	W	D,S	340	150	-	
214	47.4	July 1, 1933	H	D,S	160	320	60	15 feet of casing.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Ben Bolt	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
215	9 miles southwest	Manuel Cadena	-	1870 ?	70	60	-	-
216	7½ miles southwest	Antonio Tobin	-	-	46+	-	-	-
217	do.	Valentia Gonzales	-	1910 ?	90+	4¼	-	-
218	7 miles southwest	Mrs. A. Ch. Gonzales	Teodolo Martinez	1915	160	6	-	-
219	do.	Porfirio Zamora	Teodolo Rodriguez	1925	298	4½	296	2+
220	6½ miles west southwest	Porfirio Garcia	Luis Tamez	1910 ?	330	4¼	-	-
221	8 miles southwest	Feliz Perez Cadena	-	1850 ?	65+	60	-	-
222	do.	Manuel Cadena	-	1850 ?	60	60	-	-
223	do.	Nicolas Cadena	-	1905	110	6	-	-
224	9 miles southwest	-- Moos	-	-	-	6	-	-
225	9½ miles southwest	Romulo Valdez	-	1927	-	5-3/16	-	-
226	10½ miles southwest	Mateo Valdez	-	-	-	5-3/16	-	-
227	11 miles southwest	Victor Garcia	Santos Barrera	1925	130	4¼	-	-
228	10 miles southwest	do.	-	1890 ?	100	60	-	-
229	11 miles southwest	do.	Santos Barrera	1925	300	5-3/16	-	-
230	9 miles southwest	do.	-	1915 ?	180	6	-	-
231	10 miles southwest	Clara D. Sevier	-	Old	-	5-3/16	-	-
232	do.	E. G. Lloyd	-	1916	454	6	-	-
233	6 miles southwest	N. A. Hoffman	-	1900 ?	400+	6	-	-
234	5 miles southwest	J. M. McPherson	J.M. McPherson	1925	142	4¼	-	-
235	do.	J. P. Blake	-	-	-	-	-	-
236	4½ miles south southwest	Mrs. F. M. Stewart	B. L. Tamez	1927	422	3½	-	-
237	5½ miles southwest	J. P. Blake	-	-	-	4¼	-	-
238	do.	do.	-	-	-	4½	-	-
239	7 miles southwest	W. R. Edmund	T. Martinez	1922	96	5-3/16	-	-
240	8 miles south southwest	Clara D. Sevier	-	1920	-	5-3/16	-	-
241	7½ miles south southwest	do.	-	1900 ?	-	5-3/16	-	-
242	6½ miles south	Mrs. H. M. King, Est.	-	-	-	5-3/16	-	-



(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness d/	Sul-phate	
215	77.9	July 1, 1933	W	D,S	650	900	80	Dug well.
216	-	-	W	S	1,700	1,600	400	
217	-	-	W	D,S	500	750	300	
218	64.9	July 1, 1933	W	D,S	1,600	1,600	240	
219	-	-	W	D,S	220	270	-	
220	-	-	W	D,S	220	210	-	Dug well.
221	59.2	July 1, 1933	W	D,S	1,635	1,700	250	do.
222	56.6	do.	W	D,S	430	600	150	do.
223	62.2	do.	W	S	8,000	3,500	400	
224	82.9	do.	W	D,S	1,000	1,200	100	
225	84.8	do.	W	D,S	1,300	1,300	120	
226	85.7	do.	W	S	1,500 1,580	1,500 1,515	400	
227	85.0	do.	W	S	1,700	2,000	300	
228	84.0	do.	W	S	1,300	1,300	300	Dug well.
229	89.2	do.	W	S	220	260	150	
230	-	-	W	S	2,000	1,700	200	
231	53.6	June 8, 1933	W	S	420	440	-	
232	76.2	June 22, 1933	W	D,S	210	240	-	
233	-	-	W	D,S	210	100	-	
234	-	-	W	S	1,900	2,400	-	
235	-	-	W	S	1,900	1,600	-	
236	66.7	Jan. 16, 1933	W	D,S	220	100	-	422 feet of 3½ inch casing, perforated
237	76.2	June 22, 1933	W	D,S,I	300	180	-	One acre at bottom.
238	-	-	W	S	1,600	1,200	-	of citrus fruits ir- rigated.
239	85.2	June 22, 1933	W	D,S	330	340	-	
240	-	-	W	S	320	250	-	
241	73.8	June 7, 1933	W	D,S	330	270	-	
242	55.6	June 13, 1933	W	S	-	-	-	Altitude 158.3 feet above sea level.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Premont	Owner	Driller	Date completed a/	Depth of well (ft.)	Water-bearing bed		
						Diameter of well (in.)	Depth to top of bed (ft.)	Thickness of bed (ft.)
243	10 miles north	Clara D. Sevier	-	1900 ?	-	5-3/16	-	-
244	do.	Mrs. H. M. King, Est.	-	-	-	6-5/8	-	-
245	8½ miles north	Clara D. Sevier	-	Old	-	5-3/16	-	-
246	9 miles north northwest	do.	-	-	-	5-3/16	-	-
247	8 miles north northwest	do.	-	Old	-	5-3/16	-	-
248	9 miles northwest	Ed Vela	-	1917	247	6	-	-
249	do.	E. Canales	-	1930	277	4½	-	-
250	8½ miles northwest	"Nick" Garcia	-	-	200+	-	-	-
e/251	7½ miles northwest	Ed Vela	-- Riggins	1926	250	5-3/16	-	-
252	8 miles northwest	C. Hinojosa	-	1915	60	48	-	-
253	do.	San Juana Hinojosa	-	1900 ?	125	72	-	-
254	7 miles northwest	Felipe Hinojosa	Santiago Barrera	1933	120	5-3/16	-	-
255	do.	Jose F. Fuentes	-	-	230	4¼	-	-
256	do.	Justo Suarez	-	1925	200	5-3/16	-	-
257	6½ miles northwest	Charlie Premont	-	1923	270	5-3/16	-	-
258	6 miles northwest	Frank Bennett	-	1917	260	6-5/8	-	-
259	6½ miles northwest	Nicholas Miguel	Santiago Barrera	1927	112	5-3/16	-	-
260	6 miles northwest	-- Chopa	-	-	-	5-3/16	-	-
261	do.	-- Bailez	-	-	-	4¼	-	-
262	5½ miles north northwest	Seeligson Bros.	-	-	480	-	-	-
263	5 miles northwest	Wash Storm	Elmer Rupp	1930	506	8	450	56
264	6 miles north northwest	Seeligson No. 1	Magnolia Petroleum Co.	1932	6,010	12½	-	-
265	6½ miles north	Seeligson Bros.	-	Old	1,001	12	549	82
266	7 miles north	do.	-	-	500+	5-3/16	-	-
267	6 miles north northeast	do.	-	-	500+	5-3/16	-	-

(All wells are drilled unless otherwise stated in remarks.)

c.	Water level		Method of lift and amount of power <u>b/</u>	Use of water <u>c/</u>	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness <u>d/</u>	Sul-phate	
243	45.4	June 7, 1933	W	S	500	460	-	
244	57.5	Feb. 7, 1933	W	S	150	170	-	
245	-	-	W	S	370	230	-	
246	65.1	June 8, 1933	W	S	180	210	-	
247	51.3	do.	W	S	220	350	-	
248	66.8	June 19, 1933	W	D,S	150	230	-	
249	73.1	do.	W	D,S	170	240	-	
250	-	-	W	S	1,300	1,700	-	
251	-	-	W	D,S	190	260	-	
252	53.6	June 19, 1933	W	D,S	295	570	-	Dug well.
253	56.7	do.	W	D,S	650	500	-	Dug well with bored well in bottom.
254	-	-	-	N	-	-	-	Well just completed.
255	65.5	Apr. 25, 1933	W	D,S	210	190	-	
256	66.0	do.	W	D,S	210	310	-	
257	60	do.	W	D,S	190	210	-	
258	-	-	W	D,S	190	260	-	
259	-	-	W	D,S	750	700	-	
260	-	-	W	D,S	1,000	1,500	-	
261	-	-	H	D,S	160	280	-	
262	-	-	J,G,-	D,S	170	180	-	Drilled to supply water for drilling
263	-	-	T,G,10 H.P.	D,S,I	200	320	-	Three oil test. acres of vegetables irrigated. Casing; 106 feet of 8 inch and 5-3/16 inch to bottom.
264	-	-	-	-	-	-	-	Oil test. No production.
265	<u>g/</u> 23.3 47.4	Mar. 2, 1928 Apr. 27, 1933	W	D,S	170	210	-	Reported flow (prior to 1907) 8 gallons a minute. <u>i/</u>
266	-	-	W	S	140	155	-	
267	-	-	W	S	180	210	-	

Records of wells in Jim Wells County -- Continued

No.	Distance from Premont	Owner	Driller	Date completed a/	Depth of well (ft.)	Water-bearing bed		
						Diameter of well (in.)	Depth to top of bed (ft.)	Thickness of bed (ft.)
268	5 miles north northeast	Seeligson Bros.	-	1923	560	-	-	-
269	4 miles north	R. P. Wynne	-	-	500+	5-3/16	-	-
270	do.	Giberson -Conrad Development Co.	-- Tamez	1926	500+	8	-	-
271	6 1/2 miles west northwest	Francisco Gonzales	Luis Tamez	1931	288	4 1/2	-	-
272	do.	Miguel Santos	-	1910 ?	400+	4 1/2	-	-
273	do.	Ed Howell	W. Zimmerman	1930	271	6-5/8	221	50
274	5 1/2 miles west northwest	Arturo Lozano	Fermin Sancoceda	1926	300+	6-5/8	-	-
275	do.	do.	-	-	-	-	-	-
276	do.	-- Banahan	-	1927	-	5-3/16	-	-
277	5 miles west northwest	G. B. Arthur	-	1929	360	10	-	-
278	5 1/4 miles west northwest	Peter Schneider	S. M. Foster	1911	317	6-5/8	-	-
279	4-3/4 miles west northwest	Edwin Kershaw	-	1911	320	5-3/16	-	-
280	4 miles west northwest	Felipe Perez	Fermin Sancoceda	1932	327	4 1/2	319	8+

a/ Old, probably completed prior to 1910.

b/ H, hand pump or rope and bucket; W, windmill; A, air lift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

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

d/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power	Use of water c/ b/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	Sulphate	
268	-	-	W	S	180	220	-	
269	27	April 25, 1933	W	D,S	170	210	-	
270	37.4 37.9	Jan. 13, 1933 Aug. 4, 1933	T,G,-	D,S,I	-	-	-	Water level reported by owner as 23 feet below surface when well was completed in 1926, and 35 feet when pump was installed in 1929. Casing; 92 feet of 8 inch and 5-3/16 inch to bottom. Irrigates 28,000 seedling citrus-trees. Altitude of top of casing, 145.7 feet above sea level.
271	65.8	June 7, 1933	W	D,S	240	280	-	
272	58.3	do.	W	D,S	220	240	-	
273	-	-	W	D,S	210	230	-	8 feet of perforated casing at bottom.
274	-	-	W	D S	200	230	-	
275	-	-	W	N	-	-	-	Windmill broken, well not used.
276	-	-	W	D,S,I	210	250	-	Small garden irrigated.
277	65.6	April 25, 1933	W	D,S,I	200	230	-	do.
278	58.	do.	W	D,S,I	200	270	-	Casing; 10 feet of 6 5/8 inch and 5-3/16 inch to bottom. 3 acres of citrus fruits and one acre of vegetables irrigated.
279	-	-	W	D,S,I	200	290	-	Small garden gated. irrigated. Irrigated 5 acres using air lift about 1923.
280	-	-	W	D,S	200	250	-	319 feet of 4 1/4 inch casing.

e/ For analysis of water see under well number in table pp 54.

f/ Reported by driller.

g/ Measured by S. S. Nye, U. S. Geological Survey.

h/ Sulphate test by turbidity method and may be as much as 25 per cent in error.

i/ T. U. Taylor, underground waters of Coastal Plain of Texas: U. S. Geological Survey, Water-Supply Paper 190, 1907.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Premont	Owner	Driller	Date completed a/	Depth of well (ft.)	Water-bearing bed		
						Diameter of well (in.)	Depth to top of bed (ft.)	Thickness of bed (ft.)
281	4 miles west northwest	L. R. Stegall	Levi Shively	1932	387	4 $\frac{1}{4}$	337	50
282	3 miles northwest	E. R. Daugherty	-	Old	400+	5-3/16	-	-
283	4 $\frac{1}{2}$ miles west northwest	H. W. Wohlgemuth	-	-	-	5-3/16	-	-
284	3-3/4 miles west northwest	A. E. Kuether	-	-	-	5-3/16	-	-
285	do.	Mrs. W. F. Martens	S. M. Foster	1916	130	5-3/16	-	-
286	do.	John Luellen	do.	1914	373	4 $\frac{1}{4}$	-	-
287	3 $\frac{1}{4}$ miles west northwest	A. E. Kuether	Foster & Nelson	1912	448	6-5/8	-	-
288	2-3/4 miles west northwest	Fred C. Thomas	Elmer Rupp	1932	475	4 $\frac{1}{4}$	475	-
289	1-3/4 miles west northwest	L. T. Hewett	-	-	550+	4 $\frac{1}{4}$	-	-
290	2-3/4 miles north northwest	Charlie Lofland	-	1907	150	4 $\frac{1}{4}$	-	-
291	2 miles north northwest	-- Andres	-	1908	150+	4 $\frac{1}{4}$	-	-
292	3/4 mile northwest	A. Mertens	-	1925	524	10	475	49
293	1/2 mile north northwest	H. N. Luerksen	-	1932	531	5-3/16	461	70
294	2 miles north northeast	W. A. Seeligson	-	-	720	5-3/16	-	-
295	3 miles northeast	Canales Estate	F. Rosales	Old	440	5-3/16	-	-
296	do.	do.	-	-	490+	5-3/16	-	-
297	3 $\frac{1}{2}$ miles east	do.	-	-	490+	5-3/16	-	-
298	6 $\frac{1}{2}$ miles west	Heinrich Nagel	Benito Tamez	1927	353	5-3/16	300	50
299	6 miles west	Phillip Nagel	do.	1927	355	5-3/16	-	-
300	5-3/4 miles west	C. M. Maderer	Johnson & Hosack	1910	370+	5-3/16	-	-
301	6 miles west	Ed Howell	-- Byrd	1912	300+	5-3/16	-	-
302	5 $\frac{1}{2}$ miles west	H. H. Fleming	-	1914 ?	396	5-3/16	-	-
303	6 $\frac{1}{2}$ miles west	Teodora Davila	Benito Tamez	1923	365	4-1/4	335	30

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	Sulphate	
281	57	Apr. 25, 1933	W	D,S	210	240	-	335 feet of 4 $\frac{1}{4}$ inch casing. Salt water reported at 177 to 185 feet and good water at 211 to 219
282	-	-	W	D,S	200	230	-	feet.
283	-	-	W	D,S	200	240	-	
284	-	-	H	D,S	210	270	-	
285	92.5	Feb. 11, 1933	W	D,S,I	1,700	2,100	-	Small garden irrigated.
286	-	-	W	D,S,I	220	220	-	do.
287	-	-	W	D,S	190	280	-	
288	-	-	W	D,S	210	240	-	
289	56.3	Jan. 27, 1933	W	D,S	230	250	-	
290	-	-	W	S	2,200	1,700	-	
291	-	-	W	N	-	-	-	Windmill broken.
292	45.5	Jan. 27, 1933	W	D,S,I	250	320	-	Small garden irrigated.
293	47.4	do.	A,G,- W	D,S,I	250	270	-	Casing set at 461 feet. 2 acres of citrus fruit irrigated.
294	38.5	Apr. 25, 1933	W	D,S	200	240	-	
295	-	-	W	D,S	250	250	-	Reported flow (prior to 1907) 80 gallons
296	-	-	W	D,S	250	230	-	a minute. i/
297	51.3	Apr. 27, 1933	W	D,S	250	260	-	
298	-	-	W	D,S,I	200	230	65	329 feet of 5-3/16 inch casing. 2 acres of citrus fruit irrigated.
299	-	-	W	D,S,I	200	230	40	Small garden irrigated.
300	-	-	W	D,S,I	200	270	40	
301	-	-	W	D,S	230	340	45	Drilled to 800 feet but 300 foot sand was
302	-	-	W	D,S,I	210	250	100	5 acres of citrus fruit irrigated.
303	35.0	Dec. 6, 1932	W	D,S	225	290	100	

## Records of wells in Jim Wells County -- Continued

No.	Distance from Premont	Owner	Driller	Date completed a/	Depth of well (ft.)	Water-bearing bed		
						Diameter of well (in.)	Depth to top of bed (ft.)	Thickness of bed (ft.)
304	6 miles west	E. R. Disbro	Nelson Foster	1920	366	4 $\frac{1}{4}$	366	-
305	6 $\frac{1}{2}$ miles west	Miguel Castellana	-	-	385	4 $\frac{1}{4}$	-	-
306	6 $\frac{1}{4}$ miles west	B. Gartner	Charlie Premont	1892 ?	530	5-3/16	-	-
307	5-3/4 miles west	A. R. Clarke	Chester Downs	1919	390	5-3/16	350	40
308	do.	F. Castellano	Luis Tamez	1902 ?	408	4 $\frac{1}{4}$	-	-
309	5 $\frac{1}{2}$ miles west	V. E. Bevins	-	1911	-	5-3/16	-	-
310	5 $\frac{1}{4}$ miles west	Mrs. Rebecca Stauffer	-	1913	400	5-3/16	-	-
311	4 $\frac{1}{2}$ miles west	Charles Lofland	-	-	420	5-3/16	-	-
312	4 $\frac{1}{4}$ miles west	-- Reid	-	-	-	-	-	-
313	3 $\frac{1}{2}$ miles west	W. T. Nichol森	-	Old	379	5-3/16	-	-
314	2-3/4 miles west	-	-	-	-	4 $\frac{1}{4}$	-	-
315	2-3/4 miles west southwest	J. P. Fast	-- Tamez	1915 ?	584	5-3/16	-	-
316	1-3/4 miles west southwest	C. T. Hewitt	-	-	700	5-3/16	-	-
317	2 miles west southwest	R. S. McBride	-	-	-	5-3/16	-	-
318	1 $\frac{1}{2}$ miles west southwest	M. H. Zieger	Luis Tamez	1928	489	8-5/8	-	-
319	1 $\frac{1}{4}$ miles west southwest	Joe Lange	-	-	500+	-	-	-
320	1 mile southwest	J. L. Reid	-	-	538	5-3/16	-	-
321	do.	Theodore Myer	-	-	530	5-3/16	-	-
322	do.	-- Haldeman	Luis Tamez	-	500+	5-3/16	-	-
323	3/4 mile southwest	Eudoxio Garcia	do.	1929	533	6-5/8	-	-



(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	Sulphate	
304	-	-	A,G,- W	D,S,I	190	280	40	Garden irrigated.
305	-	-	W	D,S	200	250	35	
306	30.4	Dec. 1, 1932	W	D,S,I	240	320	90	Well reported to have had large flow when completed. Water level less than 15 feet below ground level in 1910. Old Falconina well of Seeligson ranch. Small garden
307	43.8	Dec. 6, 1932	W	D,S	180	260	70	Casing; irrigated. 100 feet of 5-3/16 inch and 4 1/4 inch set at 350 feet.
308	-	-	W	D,S	190	230	65	
309	-	-	W	D,S,I	200	280	-	5 acres of vegetables irrigated.
310	-	-	W	D,S,I	200	230	-	Small garden irrigated.
311	-	-	W	D,S	210	200	30	
312	42.	Dec. 27, 1932	W	D,S	210	210	45	
313	-	-	W	D,S	210	230	-	
314	41.6	Dec. 27, 1932	W	D,S	220	200	40	
315	-	-	W	D,S,I	220	220	40	Small garden irrigated.
316	48.4	Dec. 26, 1932	W	D,S	220	190	35	
317	40.2	Dec. 27 1932	W	S	220	190	35	
318	45.7	Aug. 24, 1933	A,G,-	D,S,I	230	190	20	6 acres of citrus fruit irrigated.
319	41.7	do.	T,G,-	D,S,I	220	210	40	5 acres of citrus fruit irrigated.
320	-	-	A,G,22 H.P.	D,S,I	220	210	25	3 acres of citrus fruit and 20 acres of vegetables and feed crop irrigated. Temperature 82° F. Yield 150 gallons a minute, measured Dec.
321	43.5	Aug. 24, 1933	W	D,S,I	220	250	50	One acre of citrus fruit irrigated. 29, 1932.
322	43.2	Dec. 29, 1932	W	D,S	210	230	30	gated.
323	50.5	Dec. 23, 1932	W	S	200	180	30	

## Records of wells in Jim Wells County -- Continued

No.	Distance from Premont	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
324	Premont	Charlie Lofland	-	-	-	-	-	-
325	do.	Premont Gin Co.	Chester Downs	1928	535	76	475	60
326	do.	Raul Tijerina	Raul Tijerina	1923	400±	4 $\frac{1}{4}$	-	-
327	do.	Luis Tamez	Benito Tamez	1908?	-	-	-	-
328	$\frac{3}{4}$ mile east	Canales Estate	-	Old	490	5-3/16	-	-
329	$\frac{1}{2}$ mile south	San Antonio & Aransas Pass RR.	Luis Tamez	1924	553	4 $\frac{1}{4}$	-	-
330	1 $\frac{1}{2}$ miles south	L. H. Franz	Perry Downs	-	540	12	-	-
331	do.	L. S. Elwell	-- Randolph	-	510	-	-	-
332	do.	do.	-	-	-	-	-	-
333	1 $\frac{1}{2}$ miles south southeast	C. C. Wehrnan	Luis Tamez	1926	540	10	-	-
334	1 $\frac{1}{2}$ miles southeast	J. R. Friesen	-	1926	550	8	-	-
335	1 $\frac{1}{2}$ miles southeast	C. T. Jones	-	-	700±	12	-	-
336	1 $\frac{1}{2}$ miles southeast	W. F. Van Meter	O. M. Boone	-	-	-	-	-
337	do.	Mrs. --Stubblefield	Chester Downs	-	500±	-	-	-
338	2 miles southeast	Chris Hansen	Luis Tamez	1925	500±	4 $\frac{1}{2}$	-	-
339	do.	D. Lobrecht	-	-	-	12	-	-
340	do.	-- Sanderson	Luis Tamez	-	500±	5-3/16	-	-
341	7 miles west southwest	L. E. Pierce	-	1911	640	6	-	-
342	do.	W. L. Singer	Charlie Premont	Old	475	6	-	-
343	6 $\frac{1}{2}$ miles west southwest	Mrs. M. Christ	Chester Downs	1921	495	5-3/16	-	-
344	5 miles west southwest	C. E. Knellinger	-- Tamez	1917	580	5-3/16	-	-
345	6 miles southwest	Charlie Premont	Charlie Premont	Old	434	5-3/16	-	-

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	Sulphate	
324	-	-	W	D,I	250	200	-	1/2 acre of citrus fruit irrigated.
325	-	-	A,O,25 H.P.	P,Ind.	260	280	-	Casing; 200 feet of 6 inch and 4 1/2 inch to bottom with lower 60 feet perforated.
326	-	-	W	D,S	270	240	-	Altitude of top of water pipe clamp, 153.5 feet above sea
327	-	-	W	D,S	250	280	-	This well is level, reported to have stopped flowing in 1909. Altitude 144.1 feet above sea level
328	41.8	April 27, 1933	W	D S	240	300	-	Small garden irrigated. Altitude 139.7
329	44.4	Oct. 24, 1932	W	D,S	-	-	-	Supplies water feet. for shipping pens and dipping vat. Altitude 151.1 feet.
330	42.5	July 31, 1933	W	D,S,I	240	210	45	10 acres of citrus fruit irrigated.
331	37.2	Aug. 18, 1933	W	D,S,I	230	200	25	do.
332	-	-	W	D,S,I	-	-	-	3 acres of citrus fruit irrigated.
333	37.8	Dec. 15, 1932	W	D,S,I	220	220	40	Water level 33 feet below top of casing in 1926, reported by
334	43.8	Dec. 26, 1932	W	D,S,I	230	200	50	6 acres of owner. citrus fruit irrigated.
335	42.3	do.	W	D,S,I	220	250	35	4 acres of citrus fruit irrigated.
336	39.2	Aug. 18, 1933	W	D,S,I	220	250	35	5 acres of citrus fruit irrigated.
337	-	-	A,G,22 H.P.	D,S,I	190	290	100	7 acres of citrus fruit irrigated.
338	35.7	Aug. 18, 1933	W	D,S,I	230	180	35	20 acres of citrus fruit irrigated.
339	36.5	July 31, 1933	W	D,S,I	230	200	20	4 acres of citrus fruit irrigated.
340	33.4	Dec. 27, 1932	W	D,S,I	230	210	50	5 acres of citrus fruit irrigated.
341	-	-	W	D,S	200	250	50	
342	25.8	Dec. 1, 1932	W	D,S	200	200	40	Reported flow(prior to 1907) 75 gallons
343	-	-	W	D,S	200	170	80	a minute. 1/
344	-	-	W	D,S,I	190	280	90	Garden irrigated.
345	52.8	Dec. 6, 1932	-	N	-	-	-	5-3/16 inch drilled well in bottom of 25 foot pump pit. Reported flow(prior to 1907) 50 gallons a minute. 1/

Records of wells in Jim Wells County -- Continued

No.	Distance from Premont	Owner	Driller	Date completed a/	Depth of well (ft.)	Water-bearing bed		
						Diameter of well (in.)	Depth to top of bed (ft.)	Thickness of bed (ft.)
346	6 miles southwest	Charlie Premont	Luis Tamez	1930?	482	8	-	-
347	4 miles west southwest	L. D. Atkinson	-	1915?	365	5-3/16	-	-
a/348	3 1/2 miles west southwest	W. A. Keith	Chester Downs	1926	486	6-5/8	-	-
349	3 1/4 miles west southwest	-- Johnston	-	-	-	6-5/8	-	-
350	4 miles southwest	C. T. Hewett	-	-	-	6-5/8	-	-
351	2-3/4 miles southwest	M. F. Mertens	-	-	384	4 1/4	-	-
352	2 1/2 miles southwest	J. F. Carroll	-	1912	540	5-3/16	-	-
353	3 miles southwest	Dr. -- Collins	-	-	-	-	-	-
354	2 1/2 miles south southwest	Dr. -- Dozier	-	1932	-	6-5/8	-	-
355	do.	H. C. Valentine	-- Vermeen	-	535	4 1/4	-	-
356	do.	C. M. Miles	Benito Tamez	1916	520	4 1/4	-	-
357	1-3/4 miles south	Nelson English	Benito Tamez	-	532	10	-	-
358	3 miles south	Bill Watkins	-	1913	705	-	-	-
359	3 1/4 miles south	J. F. Langen	Chester Downs	1915	488	5-3/16	-	-
360	3 1/2 miles south	Walter Blumer	do.	-	500+	5-3/16	-	-
a/361	2-3/4 miles south	Lindquist Bros.	Luis Tamez	1925	520	10	490	30
362	3 miles south	C. F. H. Von Blucher	Charlie Premont	-	-	-	-	-
363	3 miles south southeast	do.	-- Foster	1918	560	5-3/16	-	-
364	3-3/4 miles southeast	Canales Estate	-	-	490	5-3/16	-	-

a/ Old, probably completed prior to 1910.

b/ H, hand pump or rope and bucket; W, windmill; A, airlift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

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

d/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	Sulphate	
346	28.5	Dec. 6, 1932	W	D,S	190	210	40	
347	-	-	W	D,S,I	220	190	40	
348	-	-	W	D,S	210	190	60	
349	-	-	W	D,S,I	200	210	45	Small garden irrigated.
350	-	-	W	D,S,I	220	180	30	do.
351	-	-	W	D,S,I	230	190	40	
352	-	-	A,G,-	D,S,I	200	190	70	2½ acres of citrus fruit irrigated.
353	-	-	W	D,S	210	200	50	
354	-	-	W	D,S,I	220	170	50	20 acres of citrus fruit irrigated.
355	-	-	W	D,S,I	210	180	40	3 acres of citrus fruit irrigated
356	-	-	W	D,S,I	210	180	40	Casing; 520 feet of 4½ inch with 40 feet
357	36.4	Dec. 26, 1932	A,G,-	D,S,I	210	200	25	19 acres perforated. of citrus fruit irrigated.
358	36.1	do.	W	D,S,I	210	190	45	Small garden irrigated.
359	g/ 25.2 30.0	Mar. 2, 1928 Dec. 26, 1932	W	D,S,I	200	240	45	Small garden irrigated.
360	29.2	Aug. 1, 1933	W	D,S,I	190	210	45	5 acres of citrus fruit irrigated. Altitude 135.8 feet above
361	g/ 30 35.6 36.6	Mar. 2, 1928 Oct. 24, 1932 July 31, 1933	W	D,S,I	-	-	-	8 acres sea level. of citrus fruit irrigated. Altitude of top of casing, 142.6 feet. Casing; 60 feet of 10 inch, 4½ inch set at 498 feet, two
362	-	-	T	S	210	200	60	joints perforated.
363	32.4	Apr. 27, 1933	W	D,S	210	240	-	
364	-	-	W	S	220	240	-	

e/ For analysis of water see under well number in table pp 54.

f/ Reported by driller.

g/ Measured by S. S. Nye, U. S. Geological Survey.

h/ Sulphate test by turbidity method and may be as much as 25 per cent in error.

i/ T. U. Taylor, underground waters of Coastal Plain of Texas; U. S. Geological Survey, Water-Supply Paper 190, 1907.

## Records of wells in Jim Wells County -- Continued

No.	Distance from La Gloria	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
365	5 miles west	R. E. McBride	Night & Haunz	1927	465	6	-	-
366	5½ miles west	Star Lumber Co.	-	1912	600±	5	-	-
367	5 miles west	Mrs. H. G. Schellenberg	-	Old	650±	6	-	-
368	5½ miles west	W. G. Ward	-- Tamez	1920?	300±	5-3/16	-	-
369	do.	G. L. Crothers	Bill Williams	1920	448	5-3/16	-	-
370	do.	do.	-	Old	133	4½	-	-
371	5 miles west	Luis Guerra	-	1900?	70	5-3/16	-	-
372	5-3/4 miles west southwest	Clarence Burdette	Chester Downs	1912	430	8	-	-
373	5½ miles west southwest	Mrs. P. H. Chilton	-	1928	500	6	-	-
e/374	5 miles west southwest	E. G. Maun	W. Zimmermann	-	475	6-5/8	-	-
375	do.	C. H. Hornsby	O. M. Boone	1929	460	5-3/16	-	-
376	3½ miles west southwest	Cliff Burdette	Benito Tamez	1914	480	5-3/16	-	-
377	3 miles west southwest	Dale Maun	-	1925	495	10	460	35
378	2½ miles west southwest	S. Maun	T. Herring	Old	470	5-3/16	-	-
379	2¼ miles southwest	R. A. Jordan	W. Zimmermann	1931	498	8	472	26
380	2½ miles west	Robert Adair	-	-	-	5-3/16	-	-
381	1½ miles west southwest	C. D. Osborne	Chester Downs	-	500±	4-1/4	-	-

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness d/	Sul-phate	
365	48.9	Dec. 6, 1932	W	D,S	1,100	550	100	Furnished good water when first completed but water soon turned salty. Water can not be used for irrigation.
366	-	-	W	D,S	230	280	40	
367	-	-	W	D,S	480	290	65	Well reported to have had a flow until about 1914 but water level now is about 25 feet below ground.
368	-	-	W	D,S,I	260	250	20	3 acres of citrus fruits and 1 acre of vegetables irrigated. Temperature 81° F. Windmill pumped 25 gallons a minute in moderate wind, Dec. 1
369	-	-	W	D,S,I	260	225	20	2 acres of citrus fruits irrigated. 1932.
370	-	-	H	N	-	-	-	Old salt water well.
371	42.6	Dec. 1, 1932	H	S	2,000	750	160	
372	-	-	W	D,S,I	240	160	20	5 acres of citrus fruits irrigated.
373	-	-	W	D,S,I	210	170	20	3 acres of citrus fruits irrigated. Altitude 162.2 feet.
374	16.8	Oct. 23, 1932	W	D,S	208	190	20	Altitude of top of casing, 155.6 feet above sea level.
375	-	-	A,G,-	D,S,I	230	200	20	2½ acres of citrus fruits irrigated.
376	5.6	Dec. 6, 1932	W	D,S	220	180	30	Well had strong flow originally. Stopped flowing about 1926. Altitude of top of casing 135.4 feet.
377	9.6	do.	W	D,S,I	220	170	25	Altitude of top of casing, 135.2 feet.
378	7.4	do.	W	D,S	220	190	25	Reported flow (prior to 1907) 100 gallons a minute. i/
379	12.9	Dec. 5, 1932	H	D,S	220	170	35	Cas- ing; 42 feet of 8 inch and 4 inch drill stem to top of sand.
380	18.2	Dec. 6, 1932	H	D,S	250	200	30	
381	-	-	W	D,S	250	210	30	

## Records of wells in Jim Wells County -- Continued

No.	Distance from La Gloria	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
382	2 miles west	J. H. Patzakowsky	-	-	-	6	-	-
383	3 $\frac{1}{2}$ miles west northwest	Charlie Lofland	Luis Tamez	1925	585	-	-	-
384	2 $\frac{1}{2}$ miles west northwest	-- Sinclair	-	-	-	-	-	-
385	1 $\frac{1}{2}$ miles north	Llano Colony	-- Shively	-	500±	-	-	-
386	do.	Mrs. -- Hazzard	do.	1932	-	6-5/8	-	-
387	3/4 mile west	Z. D. Culpepper	Schrock & Rupp	1926	490	8	445	45
388	1/4 mile west	A. A. Cosby	-- Downing	1905?	480	5-3/16	-	-
389	1 mile south	James Darche	Elmer Rupp	1933	485	6	468	17+
390	1 $\frac{1}{2}$ miles south	C. Barrera	Chester Downs	1925	580±	4-1/4	-	-
391	2 miles south	O. A. Fore	Porter & Rupp	1929	629	10	579	50
392	La Gloria	F. P. Fitzgerald	-- Downing?	1904	650±	5-3/16	-	-
393	1/2 mile east	Dr. -- Padgett	O. M. Boone	1932	540	8	-	-
394	1 mile east	A. Garza	-- Byrd	1912	900±	4-1/4	580	-
395	1 $\frac{1}{2}$ miles east	J. H. Holmgran	Chester Downs	1928	635	12	-	-



(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness d/	Sulfate	
382	22.1	Aug. 30, 1933	W,A,G,20 H.P.	D,S	270	270	40	Temperature 83° F.
383	-	-	W	D,S,I	200	200	25	
384	27.1	Aug. 30, 1933	W	D,S	210	180	30	
385	-	-	H	D,S	210	190	30	
386	29.7	Aug. 1, 1933	W	D,S,I	220	190	30	Altitude of top of casing, 135.3 feet. 20 acres of citrus fruits irrigated.
387	23.6	Aug. 30, 1933	W	D,S,I	270	250	35	5 acres of citrus fruits irrigated. Casing; 44 feet of 8 inch, 5-3/16 and 4 1/4
388	25.9	July 31, 1933	W	D,S	200	210	35	inch to bottom.
389	23.7	June 7, 1933	H	D,S	270	230	-	Casing; 60 feet of 6 inch and 408 feet of 4 1/4 inch connected by
390	27.5	Dec. 5, 1932	W	D,S	220	160	25	Report- swivel joint. ed water level 12 feet below surface in 1925. Altitude of top of casing 121.1
391	21.8	Dec. 1, 1932	T,E,7 1/2 H.P.	D,S,I	185	240	100	Casing; 100 feet. feet of 10 inch and 489 feet of 6 inch with 10 foot lap set at top of second sand. First sand at 480 to 509 feet. Temperature 84 1/2° F. Yield 200 gallons a minute, measured Dec. 1 1932 6 acres of citrus fruits and 15 acres of vegetables irrigated. Altitude of top of turbine base,
392	27.5	Dec. 5, 1932	W	D,S	260	230	35	Well 125.8 feet. originally had large flow. Altitude of top of water pipe clamp, 132.2 feet.
393	26.7	Aug. 12, 1933	W	D,S,I	270	190	30	10 acres of young citrus trees to be
394	-	-	W	D,S	260	230	50	irrigated.
395	-	-	W J,G,6 H.P.	D,S,I	200	220	150	6 acres of vegetables irrigated. Temperature 86° F.

## Records of wells in Jim Wells County -- Continued

No.	Distance from La Gloria	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
396	1-3/4 miles east	Charles Boerjan	Chester Downs	1918	485	10	-	-
397	2 1/2 miles east	John Minter	do.	1914	540	-	-	-
398	1 mile southeast	J. P. Gonzales	do.	1929	471	6-5/8	-	-
399	1/2 mile south	O. M. Boone	O. M. Boone	1928	600	12	560	40
400	1 mile south	-	-- Brown	1905?	-	-	480±	-
401	1-1/4 miles southeast	Mrs. M. A. Kempshall	-- Downing	1905	600	12 1/2	520 560	20 40
402	1-1/2 miles south southeast	L. W. Moore	O. M. Boone	-	471	6-5/8	-	-
403	1-3/4 miles south southeast	Joe Myrick	Chester Downs	-	580	4-1/4	-	-
404	2-1/4 miles southeast	A. Saenz	-	-	521	4-1/4	-	-

a/ Old, probably completed prior to 1910.

b/ H, hand pump or rope and bucket; W, windmill; A, air lift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

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

d/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power <u>b/</u>	Use of water <u>c/</u>	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chloride	Hardness <u>d/</u>	Sulphate	
396	-	-	W	D,S,I	240	210	50	2 acres of citrus fruits irrigated.
397	25.2	Aug. 12, 1933	W	D,S,I	250	180	20	10 acres of citrus fruits irrigated.
398	24.6	Dec. 26, 1932	W	D,S,I	240	190	35	Casing; 60 feet of 6-5/8 inch and 4 1/4 inch to bottom with one joint perforated.
399	21.4	Dec. 5, 1932	T, E, 15 H.P.	D,S,I	220	200	40	Casing; 100 feet of 12 inch, 460 feet of 8 inch with 4 feet perforated in top of sand with uncased hole to bottom. First sand at 460 to 500 feet. Yield 400 gallons a minute, Dec. 5, 1932. 18 acres of citrus fruits and 25 acres of vegetables irrigated. Altitude of top of casing
400	-	-	H	D,S	250	190	15	127.7 feet.
401	1.5	Dec. 23, 1932	W	D,S,I	240	160	25	Casing; 20 feet of 12 1/2 inch and 4 1/4 inch to bottom with strainers at 520 to 540 feet and 560 to 600 feet. Top of first sand at 450 feet. Well had flow of 165 gallons a minute when completed. 5 acres of citrus fruits and 20 acres of vegetables
402	25.9	Dec. 23, 1932	W	D,S,I	230	130	20	Small irrigated garden irrigated.
403	-	-	W	D,S,I	230	190	50	
404	-	-	W	D,S,I	220	150	25	

e/ For analysis of water see under well number in table pp 54 .

f/ Reported by driller.

g/ Measured by S. S. Nye, U. S. Geological Survey.

h/ Sulphate test by turbidity method and may be as much as 25 per cent in error.

i/ T. U. Taylor, underground waters of Coastal Plain of Texas: U. S. Geological Survey, Water-Supply Paper 190, 1907.

Records of wells in Jim Wells County -- Continued

No.	Distance from Orange Grove	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
405	5 miles southwest	Robert Adams	Smith & Story	1936?	360+	5	-	-
e/406	5½ miles southwest	do.	Rowen & Hope	1936?	400+	5	-	-
e/407	7 miles southwest	Ed. Adams	Ed Jergins	1936	411	4	-	-

No.	Distance from Alice	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
408	¼ mile north	Magnolia Pet. Co.	H. C. White	1939	550	7	497	53
/409	2½ miles east	-	-	1930?	900+	10	-	-
410	In Alice	City of Alice No. 5	Texas Water Supply & Development Co.	1940	647	10	500 540 567	35 20 10

No.	Distance from Premont	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
411	7 miles northwest	-- Ritter	-- Glascock	1937	500+	6	-	-
412	6½ miles northwest	-- Johnson	Tom Graham	1937	500+	6	-	-
413	6¼ miles northwest	Chas. Laughlin	-	1939	500+	6	-	-
414	5¼ miles northwest	Wash Storm	A. A. Porter	1939	370	6	358	12
415	4¾ miles north	Seeligson Ranch	Magnolia Pet. Co.	1938	460	7	410	50

/ Old, probably completed prior to 1910.

e/ H, hand pump or rope and bucket; W, windmill; A, air lift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

e/ P, public supply; RR, locomotives; I, irrigation; Ind, industrial; D, domestic; S, stock; N, not used.

/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness d/	Sul-phate	
405	-	-	A,O	Ind	-	-	-	Water well for oil test
406	-	-	A,O	Ind	-	-	-	Do.
407	-	-	A,O	Ind	-	-	-	Casing: 411 feet of 4-inch.

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness d/	Sul-phate	
408	-	-	T,E	D,Ind	-	-	-	Casing: 493 feet of 7-inch, screen set from 489 to 550 feet. Yield 21 gallons a minute at completion. Reported yield of sand at 129 to 148 feet was 10 gallons
409	-	-	W	D,S	-	-	-	Started a minute. as oil test but abandoned at about
410	-	-	-	P	-	-	-	Casing: 900 feet. 502 feet of 10-inch. Screen set from 502 to 647 feet.

No.	Water level		Method of lift and amount of power b/	Use of water c/	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness d/	Sul-phate	
411	-	-	A,O	Ind	-	-	-	Water well for oil test.
412	-	-	A,O	Ind	-	-	-	Do.
413	-	-	A,O	Ind	-	-	-	Do.
414	-	-	A,O	Irr	-	-	-	Casing: 358 feet of 6-inch.
415	-	-	A,O	D	-	-	-	Casing: 405 feet of 7-inch, 88 feet of 5-inch with lap of 33 feet into 7-inch. 5-inch casing perforated from 415 to 460 feet.

/ For analysis of water see under well number in table pp. 54.

/ Reported by driller.

/ Measured by S. S. Nye, U. S. Geological Survey.

/ Sulphate test by turbidity method and may be as much as 25 per cent in error.

/ T. U. Taylor, underground waters of Coastal Plain of Texas: U. S. Geological Survey, Water-Supply Paper 190, 1907.

## Records of wells in Jim Wells County -- Continued

No.	Distance from Premont	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
416	6 miles northeast	Seeligson Ranch	Magnolia Pet. Co.	1938	647	7	568	62
417	do.	do.	do.	1938	515	7	420 450	25 65
418	In Premont	City of Premont	Peurifoy & Patterson	1939	520	8	410	110

No.	Distance from La Gloria	Owner	Driller	Date completed a/	Depth of well (ft.)	Diameter of well (in.)	Water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
e/419	1 $\frac{3}{4}$ miles southwest	Sam Maun	Magnolia Pet. Co.	1940	516	7	458	58

a/ Old, probably completed prior to 1910.

b/ H, hand pump or rope and bucket; W, windmill; A, air lift; T, deep well turbine; J, jack pump; E, electric motor; G, gasoline engine or oil engine.

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

d/ Hardness as calcium carbonate by the soap method.

(All wells are drilled unless otherwise stated in remarks.)

No.	Water level		Method of lift and amount of power <u>b/</u>	Use of water <u>c/</u>	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness <u>d/</u>	Sul-phate	
416	-	-	A,0	N	-	-	-	Casing: 558 feet of 7-inch, 113 feet of 5-inch with 24 feet lap into 7-inch. 5-inch casing perforated from 558 to
417	-	-	A,0	Ind	-	-	-	Casing: 647 feet. 413 feet of 7-inch. Screens set from 413 to 515 feet. Water well for oil
418	-	-	T,E	P	-	-	-	Casing: 120 test. feet of 8-inch, 285 feet of 6-inch with 8x6 swedge. Reported yield of 122 gallons a minute when tested Feb.11,1940.

No.	Water level		Method of lift and amount of power <u>b/</u>	Use of water <u>c/</u>	Field tests parts per million			Remarks
	Depth below surface or bench mark (ft.)	Date of measurement			Chlo-ride	Hard-ness <u>d/</u>	Sul-phate	
419	-	-	A,0	Ind	-	-	-	Casing: 458 feet of 7 and 5-inch.

e/ For analysis of water see under well number in table pp.54.

f/ Reported by driller.

g/ Measured by S. S. Nye, U. S. Geological Survey.

h/ Sulphate test by turbidity method and may be as much as 25 per cent in error.

i/ T. U. Taylor, underground waters of Coastal Plain of Texas: U. S. Geological Survey, Water-Supply Paper 190, 1907.

Table of Drillers' logs, Jim Wells County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 29</u>		
Gulf Production Company, Mrs. R. Shaef-fer Number 5.		
Caliche - - - -	4	4
Hard clay and shale -	46	50
Hard sand and caliche-	103	153
Caliche - - - -	25	178
Clay - - - -	7	185
Sand - - - -	43	228
Shale- - - -	52	280
Sand and gravel - -	10	290
Shale- - - -	100	390
Sand - - - -	12	402
Gummy shale - - -	46	448
Sand - - - -	16	464
Shale- - - -	114	578
Gumbo- - - -	17	595
Sandy shale - - -	42	637
Tough sticky shale -	41	678
Sticky shale - - -	10	688
Sand and gravel - -	31	719
Shale- - - -	16	735
Sticky shale - - -	15	750
Sandy shale and boulders - - - -	16	766
Sand- - - -	14	780
Sandy shale - - -	5	785
Sand - - - -	28	823
Sandy shale - - -	73	896
Sticky shale - - -	45	941
Sandy shale - - -	42	983
Sand - - - -	7	990
Sandy shale - - -	40	1030
Sticky shale - - -	44	1074
Shale - - - -	26	1100
Dry shale - - - -	50	1150
Sticky shale - - -	28	1178
Shale, with sand streaks - - - -	34	1222
Sticky shale - - -	28	1250
Shale with streaks of hard sand -- - -	13	1263
Hard sand - - - -	28	1291
Shale - - - -	17	1308
Sand - - - -	82	1390
Sticky shale - - -	58	1448
Sticky shale - - -	124	1572
TOTAL DEPTH		3044

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 33</u>		
Gulf Production Company, Mrs. R. Shaeffer Number 3.		
Hard, sandy, caliche rock-	53	53
Caliche - - - -	10	63
Red clay - - - -	57	120
Red gumbo and lime-	82	202
Red clay - - - -	20	222
Soft sand - - - -	58	270
Sandy shale - - -	31	301
Red gumbo - - - -	20	321
Red gumbo and lime-	69	390
Sand - - - -	90	480
Gumbo - - - -	79	559
Hard shale- - - -	2	561
Hard gray shale - -	49	610
Sticky shale - - -	24	634
Sand - - - -	16	650
Sandy shale - - -	40	690
Gumbo - - - -	10	700
Red gumbo - - - -	100	800
Gumbo and lime-	62	862
Sand - - - -	59	921
Red sandy clay- - -	54	975
Gumbo and lime-	45	1020
Sandy shale - - -	15	1035
Gumbo - - - -	37	1072
Sandy shale - - -	28	1100
Sand - - - -	60	1160
Sand and shale- - -	19	1179
Sandy shale - - -	21	1200
Gumbo - - - -	30	1230
Gumbo and lime-	75	1305
Red gumbo and lime-	45	1350
Red gumbo - - - -	70	1420
Sandy shale - - -	40	1460
Gumbo - - - -	84	1544
TOTAL DEPTH		2861

<u>Driller's log of well 37</u>		
Magnolia Petroleum Company, Charles Cook Number 1.		
Surface clay - - -	6	6
Caliche - - - -	50	56
Shale - - - -	19	175
Sand - - - -	10	185
Shale - - - -	107	292
Broken sand - - -	67	359
Shale - - - -	47	406
Sand rocks- - - -	2	408
Streaks of sand - -	78	486
(Continued on next page)		



Table of Drillers' Logs, Jim Wells County -- Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 37 - continued</u>		
Sandy shale - - -	96	582
Water sand - - -	13	595
Streaks of sand - - -	120	715
Gummy gypsum - - -	97	812
Sand - - - - -	18	830
Gumbo - - - - -	15	845
Broken sand and shale -	75	920
Gumbo - - - - -	12	932
Shale - - - - -	11	943
Sand - - - - -	13	956
Gumbo - - - - -	78	1034
Sticky shale - - - - -	16	1050
Gumbo - - - - -	30	1080
Gummy lime- - - - -	20	1100
Sticky shale - - - - -	80	1180
Sand - - - - -	12	1192
Shale - - - - -	28	1220
Sticky shale - - - - -	5	1225
Gumbo - - - - -	28	1253
Sand - - - - -	32	1285
Shale - - - - -	45	1330
Gumbo - - - - -	21	1351
Shale - - - - -	25	1376
Streaks of shale - - -	53	1429
Sticky shale - - - - -	55	1484
Sand - - - - -	19	1503
Streaks of shale - - -	42	1545
Sand - - - - -	23	1568
Shale - - - - -	17	1585
TOTAL DEPTH		4795

<u>Driller's log of well 52</u>		
R. and G. Corp. Ragland Number 1.		
Surface - - - - -	14	14
Clay - - - - -	6	20
Caliche and sand - - -	24	44
Clay - - - - -	28	72
Caliche - - - - -	12	84
Lime rock- - - - -	3	87
Sand - - - - -	3	90
Clay - - - - -	67	157
Sand - - - - -	11	168
Clay - - - - -	20	188
Yellow clay - - - - -	27	215
Sand - - - - -	20	235
Yellow clay - - - - -	28	263
Sand - - - - -	5	268
Yellow clay - - - - -	29	297
Sand - - - - -	9	306
Red clay - - - - -	42	348
Sand - - - - -	102	450

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 52 - continued</u>		
Clay - - - - -	3	453
Sand - - - - -	24	487
Tough gumbo - - - - -	15	502
Gumbo - - - - -	12	514
Sand - - - - -	24	538
Gumbo - - - - -	18	556
Sand - - - - -	22	578
Gumbo - - - - -	9	587
Hard sand and lime- - -	48	635
Sticky shale - - - - -	29	664
Lime rock - - - - -	2	666
Gumbo - - - - -	18	684
Sand - - - - -	11	695
Gumbo - - - - -	85	780
Sticky shale - - - - -	25	805
Sand - - - - -	21	826
Sticky shale - - - - -	35	861
Sand - - - - -	42	903
Gumbo - - - - -	9	912
Sand - - - - -	48	960
Gumbo - - - - -	52	1012
Sticky shale - - - - -	18	1030
Gumbo - - - - -	42	1072
Sticky shale - - - - -	149	1221
Hard shale- - - - -	5	1226
Gumbo - - - - -	18	1244
Sand - - - - -	9	1253
Sticky shale - - - - -	43	1296
Sandy shale - - - - -	8	1304
Sticky shale - - - - -	31	1335
Gumbo - - - - -	20	1355
Sticky shale - - - - -	66	1421
Sand - - - - -	14	1435
Gumbo - - - - -	35	1470
Sand - - - - -	8	1478
Gumbo - - - - -	31	1509
Sand - - - - -	52	1561
Sand and lime - - - - -	49	1610
Gumbo - - - - -	17	1627
TOTAL DEPTH		3003

<u>Driller's log of well 91</u>		
San Antonio Loan and Trust Company.		
Clay - - - - -	39	39
Rock - - - - -	21	60
Caliche - - - - -	60	120
Clay - - - - -	52	172
Sand - - - - -	8	180
Clay - - - - -	183	363
Water sand- - - - -	12	375

Table of Drillers' Logs, Jim Wells County -- Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 93</u>		
V. E. Bird, owner.		
Clay- - - - -	20	20
Sand- - - - -	20	40
Clay- .. - - -	40	80
Caliche rock. - - -	18	98
Clay- - - - -	11	109
Caliche - - - - -	31	140
Clay- - - - -	19	159
Salt water sand - - -	10	169
Clay- - - - -	126	295
Water sand - - - - -	19	314

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 116</u>		
A. L. Stokes, owner.		
Brown sand - - - - -	40	40
Lime rock - - - - -	45	85
Yellow clay - - - - -	95	180
White clay and hard sand - - - - -	60	240
Red and yellow clay - - -	15	255
Hard water sand - - -	20	275
Brown clay - - - - -	25	300
Brown clay and boulders - - - - -	180	480
Brown water sand and some clay - - -	23	503
Red clay, bouldres and gypsum- - - - -	247	750
Red clay, boulders and gypsum- - - - -	550	1300
Boulders and clay, hard - - - - -	200	1500

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 136</u>		
Richard Albert, owner.		
Sand- - - - -	2	2
Clay and caliche- - -	7	9
Soft sand and caliche with layers of hard caliche- - - - -	81	90
Red and yellow clay - - -	20	110
Water sand - - - - -	17	127

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 156</u>		
City of Alice, owner.		
Soil - - - - -	4	4
White clay - - - - -	6	10

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 156 - continued</u>		
Packed sand - - - - -	16	26
White clay and gravel-	58	84
Hard rock - - - - -	6	90
Caliche- - - - -	66	156
Hard clay and gravel - -	43	199
Soft yellow clay - - -	194	393
Rock - - - - -	1	394
Clay - - - - -	9	403
Fine brown sand - - -	20	423
Clay - - - - -	73	496
Fine brown sand - - -	39	535
Gumbo - - - - -	3	538
Sand- - - - -	15	553
Rock- - - - -	1	554
Hard clay - - - - -	41	595
Sand- - - - -	27	622
Gumbo - - - - -	4	626
Rock- - - - -	1	627
Sand- - - - -	18	645
Gumbo - - - - -	14	659
Sand- - - - -	19	678
Shale - - - - -	21	698
Gumbo - - - - -	22	720
Shale- - - - -	92	812
Gumbo- - - - -	25	837
Sand- - - - -	24	861
Hard shale and sand - -	88	949
Fine sand - - - - -	43	992
Gumbo - - - - -	90	1083
Fine sand - - - - -	58	1142
Gumbo - - - - -	135	1277
Fine sand - - - - -	51	1329
Gumbo - - - - -	46	1375
Hard sand - - - - -	10	1385
Gumbo - - - - -	61	1447
Gumbo and thin sand layers- - - - -	111	1558
Fine blue sand - - -	22	1580
Gumbo - - - - -	72	1653
Sand- - - - -	14	1667
Gumbo - - - - -	214	1881
Shale - - - - -	81	1962
Sand, good, no breaks-	23	1985
Sand and shale, very broken- - - - -	82	2068

Table of Drillers' Logs, Jim Wells County --continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 178</u>		
"Magnolia Colony", owner.		
Black soil- - - -	2	2
Brown sandy clay - - -	4	6
White sand- - - -	22	28
White clay and chalk rock - - - -	22	50
White clay- - - -	70	120
Pink clay and rock (Chalk) - - - -	58	178
Hard white rock and brown shale - - - -	16	194
White clay- - - -	34	228
Pink clay, sticky - - -	92	320
Soft lime rock- - - -	8	328
Light brown clay - - -	66	394
Sandy clay- - - -	4	398
Soapstone - - - -	14	412
Gumbo - - - -	23	435
Water sand and boulders- - - -	35	470
Sticky white clay - - -	23	493
Reddish sandy clay- - -	11	504
Sand, red clay and boulders- - - -	76	580
Clay and sand rock- - -	8	588
Sandy clay- - - -	18	606
Sticky gumbo - - - -	12	618
Sand, clay and boulders- - - -	57	675
Boulders and clay - - -	7	682
Tough gumbo - - - -	7	689
Tough sandy brown clay - - - -	111	800
White rock and clay- - - -	27	827
Lead colored shale- - -	23	850
White rock and clay- - - -	30	880
Gray and yellow sand- - - -	38	918
Greenish white shale - - -	32	950
Shale and bouldres- - -	43	993
Soft rock - - - -	19	1012
Hard brown clay - - - -	18	1030
Boulders and shale- - -	17	1047

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 178 --continued</u>		
Soft rock - - - -	18	1065
Clay and boulders - - -	7	1072
Brown clay and boulders- - - -	22	1094
Hard green clay - - - -	36	1120
Hard, tough shale - - -	14	1134
Soft, crumbly shale - - -	19	1153
Hard green clay - - - -	14	1167
Shale and clay- - - -	12	1179
Gumbo - - - -	7	1186
Green shale and rock- - - -	18	1204
Green and brown shale - - - -	28	1232
Hard brown shale - - -	47	1279
White rock and boulders- - - -	3	1282
Light brown clay - - -	24	1306
Tough green clay - - -	92	1398
Tough brown clay - - -	75	1473
Soapstone and soft slate- - - -	37	1510

<u>Driller's log of well 189</u>		
Independent School District Number 7.		
Surface soil - - - -	3	3
Reddish sandy caliche -	37	40
Caliche with very small supply of water at 90 and 160 feet- - - -	160	200
Pink clay- - - -	60	260
Sand- - - -	3	263
Pink clay - - - -	82	345
Water sand - - - -	53	398

<u>Driller's log of well 264</u>		
Magnolia Petroleum Company, Seeligson Number 1.		
Surface sand - - - -	11	11
Clay- - - -	3	14
Caliche clay - - - -	26	40
Water sand - - - -	20	60
(Continued on next page)		

Table of Drillers' Logs, Jim Wells County -- Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 264 - continued</u>		
Shale- - - -	50	110
Water sand - - -	20	130
Shale- - - -	40	170
Water sand - - -	24	194
Broken shale - - -	61	255
Water sand - - -	20	275
Shale- - - -	27	302
Yellow shale - - -	68	370
Sand and gravel - - -	25	395
Shale- - - -	25	420
Sandy shale - - -	45	465
Shale- - - -	60	525
Water sand - - -	30	555
Shale- - - -	10	565
Water sand - - -	30	595
Shale- - - -	35	630
Water sand - - -	53	683
Sand rock- - - -	1	684
Water sand - - -	81	765
Shale- - - -	21	786
Water sand - - -	17	803
Shale- - - -	37	840
Water sand - - -	25	865
Sticky shale - - -	130	995
Shale, cored - - -	20	1015
Sticky shale - - -	43	1058
Water sand- - - -	37	1095
Sticky shale - - -	35	1410
Sandy shale - - -	26	1436
Sticky shale - - -	27	1463
Water sand- - - -	40	1503
TOTAL DEPTH		6010

Driller's log of well 288

Fred C. Thomas, owner.		
Surface sand and caliche- - - -	0	20
Sand and caliche - - -	5	25
Clay and caliche - - -	5	30
Hard caliche - - -	5	35
Sand and caliche - - -	10	45
Gravel - - - -	10	55
Rock- - - -	10	65
Clay - - - -	30	95
Rock - - - -	11	106
Rock and clay- - - -	29	135
Mixed clay - - - -	85	220
Clay and rock- - - -	18	238
Caliche - - - -	2	240
Red clay - - - -	20	260
Water sand - - - -	9	269

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 288 - continued</u>		
Red clay - - - -	31	400
Mixed sand and clay - - -	15	415
? - - - -	60	475
Water sand - - - -	-	-
Well ends in top of sand		

Driller's log of well 389

James Darche, owner.		
Soft, yellow sand- - -	12	12
Soft caliche - - -	1	13
Soft, yellow sand with snail shells - - -	6	19
Soft, yellow sand with streaks of caliche - - -	9	28
Coarse white sand with streaks of caliche - - -	14	42
Soft white clay - - -	1	43
White sand and caliche- - -	10	53
Hard caliche - - -	3	56
White clay with sand and streaks of caliche - - - -	11	67
Soft, white and pink clay - - - -	10	77
Sand and caliche - - -	1	78
Soft, white and pink clay- - - -	25	103
White caliche - - -	1	104
Soft, white clay - - -	28	132
Soft, brown clay and caliche - - - -	18	150
Soft, brown and white clay- - - -	36	186
Hard sandy clay with streaks of caliche - - -	9	195
Soft, white and pink sandy clay with caliche - - - -	12	207
Hard, white caliche - - -	3	210
Clay and caliche - - -	15	225
Sandy clay with streaks of caliche - - -	15	240
Clay and caliche - - -	10	250
Sandy, white and pink clay and caliche - - - -	57	307
Sticky red and white clay - - - -	23	330
Soft, gray, sandy clay with streaks of sand - - - -	20	350

(Continued on next page)

Table of Drillers' Logs, Jim Wells County -- Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 389--continued</u>		
Red and brown clay - - -	10	360
Hard, red and gray clay- -	15	375
Hard, red clay with streaks of rock - - - - -	15	390
Hard, red clay - - - - -	10	400
Red and white clay and sand	15	415
Hard red clay - - - - -	15	430
Soft, red and white clay -	10	440
Hard red clay - - - - -	15	455
Soft red and white clay -	13	468
Red sand and gravel - - -	2	470
Soft red sand - - - - -	15	485

Driller's log of well 408

Magnolia Petroleum Company.		
Surface soil - - - - -	8	8
Sand - - - - -	6	14
Caliche - - - - -	66	80
Sand (dry) - - - - -	11	91
Hard shale - - - - -	25	116
Sand (water) - - - - -	7	123
Shale - - - - -	6	129
Sand (water) (Tested 10 g.p.m.) - - -	19	148
Shale - - - - -	12	160
Sandy shale- - - - -	36	196
Clay - - - - -	42	238
Sandy shale - - - - -	47	285
Clay - - - - -	11	296
Sandy shale - - - - -	149	445
Clay - - - - -	20	465
Sand - - - - -	7	472
Shale - - - - -	25	497
Sand (water) - - - - -	53	550
CASING RECORD: 493 feet of 7-inch; 61 feet of 5 $\frac{1}{2}$ -inch screen set from 489 to 550, with 4-inch lap into 7-inch casing. Tested 21 g.p.m. on completion.		

Driller's log of well 415

Seeligson Ranch - Magnolia Petroleum Company.		
Surface soil - - - - -	10	10
Clay - - - - -	30	40
Caliche - - - - -	20	60
Sandy shale- - - - -	50	110
Clay - - - - -	45	155
Shale - - - - -	30	185
Clay - - - - -	35	220
Sandy shale - - - - -	55	275
Clay - - - - -	15	290

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 415--continued</u>		
Sandy shale - - - - -	60	350
Shale - - - - -	25	375
Clay - - - - -	35	410
Sand - - - - -	50	460
CASING RECORD: 405 feet of 7-inch; 88 feet of 5-inch with 33-foot lap into 7-inch. Five-inch casing perforated from 415 feet to 460 feet.		

Driller's log of well 416

Seeligson Ranch - Magnolia Oil Company.		
Sand - - - - -	10	10
Hard caliche - - - - -	15	25
Yellow clay - - - - -	105	130
Sandy shale - - - - -	103	233
Sand - - - - -	24	257
Shale - - - - -	53	310
Sandy shale - - - - -	10	320
Sand - - - - -	13	333
Shale - - - - -	67	400
Sand - - - - -	35	435
Sandy shale - - - - -	15	450
Sand - - - - -	40	490
Shale - - - - -	5	495
Sand - - - - -	25	520
Hard sand and shale - -	48	566
Sand - - - - -	62	630
Sandy shale - - - - -	17	647
CASING RECORD: 558 feet of 7-inch; 113 feet of 5-inch perforated casing set from 558 to 647, with 24-foot lap into 7-inch casing.		

Driller's log of well 417

Seeligson Ranch - Magnolia Oil Company.		
Sand - - - - -	10	10
Caliche - - - - -	15	25
Yellow clay - - - - -	115	140
Sandy shale - - - - -	90	230
Sand - - - - -	30	260
Sticky shale - - - - -	10	270
Sand - - - - -	20	290
Sticky shale - - - - -	27	317
Sand - - - - -	18	335
Shale - - - - -	5	340
Sand - - - - -	15	355
Shale - - - - -	65	420
Sand - - - - -	25	445
Sandy shale - - - - -	5	450
Sand - - - - -	65	515
CASING RECORD: 413 feet of 7-inch; 4 and 5-inch screens set from 413 to 515.		

## Table of Drillers' Logs, Jim Wells County -- Continued

	Thickness (feet)	Depth (feet)
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Driller's log of well 418

City well at Premont, Texas.		
Caliche - - - -	16	16
Caliche with clay streaks	234	250
Gandy red shale - - -	160	410
Sand - - - - -	110	520
CASING RECORD: 120 feet of 8-inch; 8-inch x 1 foot, 4-inch swedge; 284 $\frac{1}{2}$ feet of 6-inch. Yield 122 g.p.m. on Feb. 11, 1940.		

Driller's log of well 419

Magnolia Petroleum Company. Water well on Sam Maun lease.		
Surface soil - - -	8	8

	Thickness (feet)	Depth (feet)
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Driller's log of well 419--continued

Sand rock - - - -	17	25
Caliche - - - -	32	57
Sand - - - - -	9	66
Clay - - - - -	82	148
Sand - - - - -	10	158
Clay - - - - -	66	224
Sandy shale - - -	28	252
Hard shale - - -	18	270
Sandy shale - - -	35	305
Clay - - - - -	8	313
Sand - - - - -	58	371
Shale - - - - -	39	410
Sand - - - - -	13	423
Clay - - - - -	35	458
Sand - - - - -	58	516
CASING RECORD: 458 feet of 7 and 5-inch		

## Analyses of water from Jim Wells County, Texas

(Parts per million. Well numbers correspond to numbers in table of records of wells)

Well No.	Owner	Date of collection	Total dissolved solids	Silica (SiO <sub>2</sub> )	Iron (Fe)	Calcium (Ca)	Magnesium (Mg)
6	School Dist. No. 16	Mar. 21, 1934	a/ 785	-	1.0	41	14
16	S. M. Freeborn	Mar. 31, 1934	a/ 940	-	.97	83	28
44	Mrs. G. E. Teller	Mar. 21, 1934	a/1,326	-	1.8	102	45
46	T. L. Bowden	do.	a/ 781	-	.33	77	31
67	Manuel Trejo	do.	a/2,462	-	1.2	99	55
89	W. S. Wimbs	Mar. 1, 1928	1,818	26	1.1	68	50
95	E. Whitley	Mar. 4, 1913	-	-	0	-	-
96	Hayden & Reeves	do.	-	-	0	-	-
109	M. J. Luby	do.	-	-	0	-	-
113	James Walker	do.	-	-	5.0	-	-
114	C. F. Longwish Est.	do.	-	-	3.0	-	-
116	A. L. Stokes	do.	-	-	5.0	-	-
132	Anastacio Lopez	do.	-	-	0	-	-
142	J. B. Polk	Feb. 28, 1928	806	46	1.2	34	21
151	Alice Cotton Oil Co.	May 3, 1913	-	-	0	-	-
153	City of Alice	Mar. 4, 1913	-	-	-	-	-
153	do.	Apr. 18, 1940	798	-	-	-	-
154	do.	do.	1,163	-	-	43	29
155	do.	Mar. 5, 1928	1,234	25	.17	43	24
155	do.	Apr. 18, 1940	1,085	-	-	50	28
d/156	do.	Sept. 10, 1928	2,336	-	-	70	17
e/156	do.	Apr. 15, 1928	6,227	-	-	246	31
f/156	do.	Apr. 20, 1928	6,669	-	-	267	34
g/156	do.	May 1, 1928	3,103	-	-	104	24
h/156	do.	Jan. 10, 1928	4,387	-	-	46	9
i/156	do.	Jan. 20, 1928	5,041	-	-	155	17
j/156	do.	Apr. 8, 1940	1,109	-	-	34	17
175	W. F. Botard	Mar. 29, 1934	a/1,082	-	.44	22	17
191	Romana V. de Garcia	Mar. 21, 1934	a/ 777	-	2.0	16	12
206	Emilia Barrera	Mar. 29, 1934	a/2,289	-	.26	220	107
214	Miguel y Ygnacio Cadena	do.	a/ 621	-	3.6	73	56
251	Ed. Vela	do.	a/ 591	-	.53	36	15
348	W. A. Keith	Apr. 7, 1933	a/ 699	-	1.5	46	18
361	Lindquist Bros.	Mar. 2, 1928	745	37	.11	47	19
374	E. G. Maun	Apr. 7, 1933	a/ 601	-	2.6	40	18
406	Robert Adams	Apr. 9, 1940	1,154	-	-	94	32
407	Ed. Adams	do.	1,032	-	-	41	28
409	Dr. Adkinson	Apr. 8, 1940	845	-	-	-	-
e/412	-- Johnson	Apr. 6, 1940	751	-	-	61	20
419	Sam Maun	Apr. 5, 1940	645	-	-	38	19

a/ Calculated.

b/ Determined.

c/ Sample collected by David Donoghue under the supervision of Alex Deussen.

d/ Water from strainers at 837 to 867 feet and 945 to 986 feet.

e/ Water from strainer at 1,078 to 1,139 feet.

f/ Water from strainer at 1,280 to 1,327 feet.

## Analyses of water from Jim Wells County, Texas

(Parts per million. Well numbers correspond to numbers in table of records of wells)

Well No.	Sodium (Na)	Potassium (K)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)	Analyst
6	a/ 252		438	59	199	2.0	2.5	160	Margaret D. Foster
16	a/ 241		516	51	375	.4	5.8	322	Do.
44	a/ 333		355	192	472	.5	6.9	440	Do.
46	a/ 181		374	68	235	.8	4.0	320	Do.
67	a/ 746		401	416	938	1.0	9.2	473	Do.
89	513	9.6	402	283	615	-	21	375	Do.
95	-		257	328	586	-	-	b/168	W. T. Read c/
96	-		392	287	290	-	-	b/300	Do.
109	-		332	119	249	-	-	b/186	Do.
113	-		295	19	73	-	-	b/298	Do.
114	-		408	49	140	-	-	b/290	Do.
116	-		355	30	181	-	-	b/128	Do.
132	-		256	222	665	-	-	b/260	Do.
142	235	4.4	358	42	246	-	1.3	171	Margaret D. Foster
151	-		314	186	387	-	-	b/202	W. T. Read c/
153	-		392	58	271	-	-	b/182	Do.
153	287		318	115	220	-	-	87	E. W. Lohr
154	363		320	149	412	-	-	226	Do.
155	374	10	318	151	430	-	17	206	Margaret D. Foster
155	330		354	113	390	-	-	240	E. W. Lohr
156	a/ 789		280	1,190	355	-	-	245	?
156	a/ 1,646		223	3,187	579	-	-	642	Curtis Laboratories
156	a/ 1,760		200	3,463	613	-	-	807	Do.
156	a/ 841		274	1,327	409	-	-	358	Do.
156	a/ 1,368		209	1,947	660	-	-	152	Do.
156	a/ 1,422		211	2,352	657	-	-	457	Do.
156	361		332	228	305	-	-	155	E. W. Lohr
175	a/ 371		338	156	306	2.7	16	125	Margaret D. Foster
191	a/ 271		306	74	241	.3	12	89	Do.
206	a/ 462		360	399	890	.7	33	989	Do.
214	a/ 85		436	45	118	1.8	27	412	Do.
251	a/ 174		321	67	137	.4	3.7	152	Do.
348	a/ 194		298	90	180	-	24	189	Do.
361	193	6.2	304	84	189	-	.20	195	Do.
374	a/ 172		278	26	208	-	.50	174	Do.
406	307		318	62	502	-	-	366	E. W. Lohr
407	318		420	140	298	-	-	217	Do.
409	316		350	135	215	-	-	63	Do.
412	199		345	111	190	-	-	234	Do.
419	191		294	24	228	-	-	173	Do.

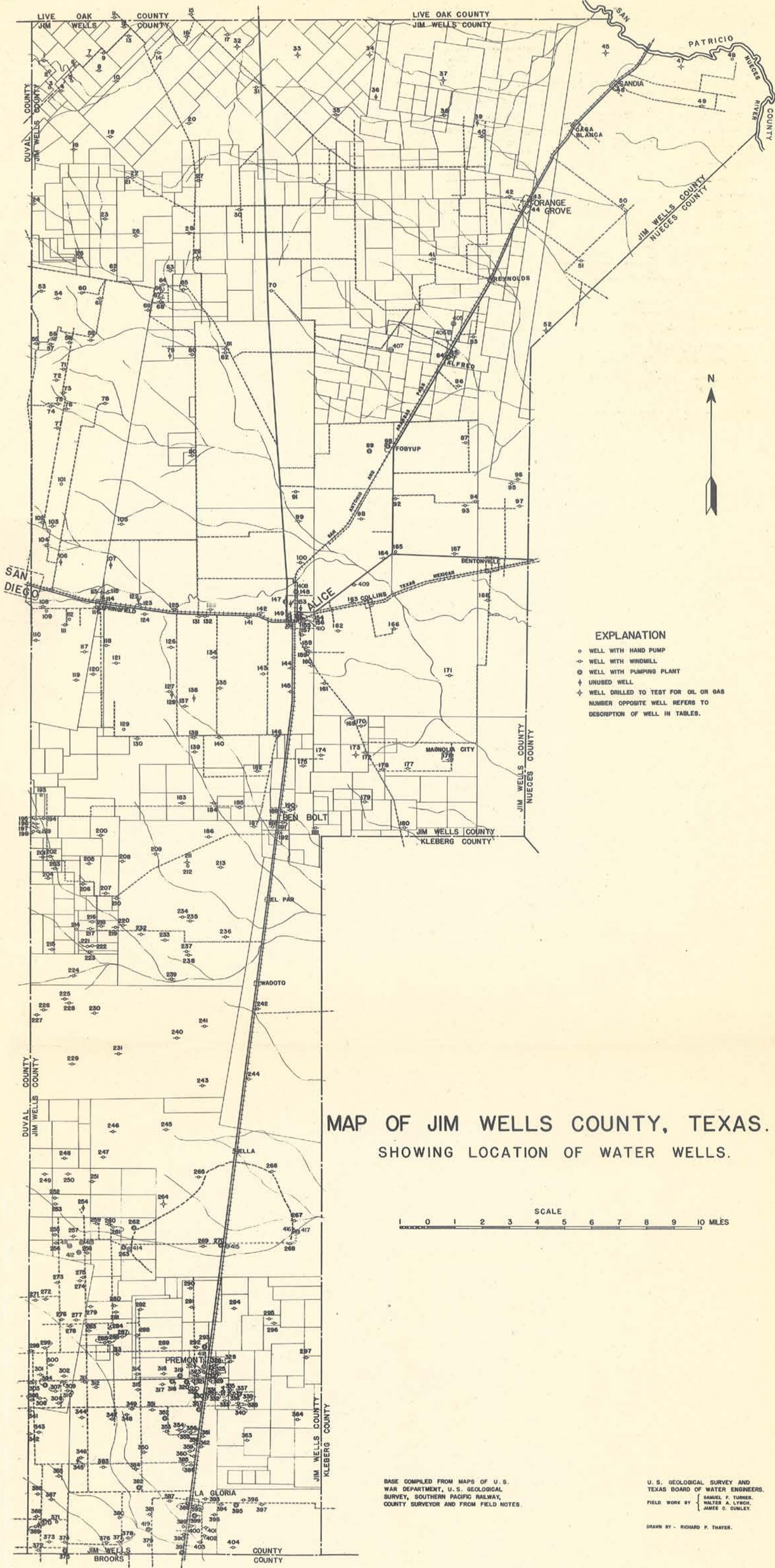
g/ Water from strainers at 837 to 867 feet 945 to 986 feet, 1,078 to 1,139 feet, and 1,280 to 1,327 feet.

h/ Water from strainer at 1,958 to 2,004 feet.

i/ Water from strainers at 837 to 869 feet, 945 to 986 feet, 1,078 to 1,139 feet, 1,280 to 1,327 feet and 1,958 to 2,004 feet.

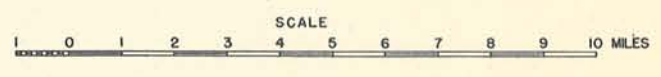
j/ Well developed from test water from strainers at 837 to 867 feet, and 945 to 986 feet.





- EXPLANATION**
- WELL WITH HAND PUMP
  - ◡ WELL WITH WINDMILL
  - ◓ WELL WITH PUMPING PLANT
  - ⊕ UNUSED WELL
  - ◇ WELL DRILLED TO TEST FOR OIL OR GAS
- NUMBER OPPOSITE WELL REFERS TO DESCRIPTION OF WELL IN TABLES.

**MAP OF JIM WELLS COUNTY, TEXAS.**  
 SHOWING LOCATION OF WATER WELLS.



BASE COMPILED FROM MAPS OF U.S. WAR DEPARTMENT, U.S. GEOLOGICAL SURVEY, SOUTHERN PACIFIC RAILWAY, COUNTY SURVEYOR AND FROM FIELD NOTES.

U.S. GEOLOGICAL SURVEY AND TEXAS BOARD OF WATER ENGINEERS.  
 FIELD WORK BY { SAMUEL F. TURNER,  
 WALTER A. LYNDEN,  
 JAMES G. CUMLEY.

DRAWN BY - RICHARD P. THAYER.