

BROOKS 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

This release contains records of wells in Brooks County, Texas, together with well logs and tables giving the results of 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 in the course of an investigation by the Texas Board of Water Engineers in cooperation with the United States Department of the Interior, Geological Survey. They were obtained during the winter and spring of 1932-33 by Samuel F. Turner and James C. Cumley. Samples of water were obtained from most of the wells and tested in the field to determine approximately the hardness of the water and its chloride and sulphate contents, and samples from eight wells were analyzed in the Water Resources laboratory of the United States Geological Survey at Washington. Altogether about 500 wells located in all parts of Brooks County are described in the tables.

In most of the county water encountered at shallow depths is highly mineralized, although there are exceptions to this rule. In general the best water and the largest supplies are obtained from three rather deep sands. These sands are penetrated at depths ranging from 500 to 900 feet in the vicinity of Falfurrias, at lesser depths west and northwest of Falfurrias, and at greater depths in the eastern and southeastern parts of the county. The first deep well was drilled at Falfurrias about 1900 and irrigation from wells was begun about 1910. In 1932-33 a total of 500 to 600 acres consisting mostly of citrus orchards and truck gardens, were irrigated with water from 85 to 90 wells and the estimated total average discharge from all wells in the county was 2,000 to 2,500 acre-feet a year.

From an incomplete inventory made in April 1940, it is estimated that the total acreage irrigated from wells has been reduced about 30% since 1932-33. The greater part of the reduction has been due to a decrease in truck farming. Some of the citrus grove owners, however, have stopped irrigating. Information obtained from the leading users of ground water in the area indicates that although there has been a substantial decrease in the total irrigated acreage the growers who have continued operations are irrigating more thoroughly now than formerly, and as the groves are older and the trees larger, more water is used per acre than in 1932-33. Therefore it seems probable that the withdrawals of ground-water for irrigation in this area is at least equal to and possibly greater than it was in 1932-33.

The city of Falfurrias, the county seat, is supplied with water from two wells, Nos. 280 & 281, respectively 755 feet and 749 feet in depth. The average daily consumption of water is reported to vary from about 100,000 gallons in winter to about 150,000 gallons in summer.

Since December 1932 periodic measurements of water levels in selected wells have been made in different parts of the county. These records indicate that in the vicinity of the irrigated district near Falfurrias there has been an average net decline of six to eight feet in the shallow wells and a smaller average net decline in the deep wells. The water levels in the deep wells which serve the irrigated lands in that part of the county still are comparatively high, however, the average depth to the static level in 1939 being about 18 feet in the deep observation wells. In other parts of the county during the seven years of observation there has been comparatively little change in water levels in the wells studied.

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 Brooks County, Texas

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
1	19 miles west	San Antonio Loan & Trust Co.	-	-	67	4	-	-
2	16½ miles west	do.	-	-	-	4	-	-
3	15½ miles west	Ambrosia Maldonado	-	-	60	-	-	-
4	20 miles west	Trinidad Pena	-	-	76	-	-	-
5	19½ miles west	do.	-	-	-	4¼	-	-
6	18 miles west	do.	-	-	35	5- 3/16	-	-
7	do.	Rafino Saenz	-	-	65	5- 3/16	-	-
8	do.	Cleofus Hinojosa	-	-	-	-	-	-
9	17½ miles west	Francisco Pena	-	-	-	-	-	-
10	17 miles west	D. Saenz	-	-	65	4¼	-	-
11	do.	A. Hinojosa	-	-	-	-	-	-
12	15½ miles west	W. W. Jones	-	-	-	-	-	-
13	13½ miles west	Ed Pena	-	-	-	5- 3/16	-	-
14	13 miles west	do.	-	-	70	5- 3/16	-	-
15	12 miles west	Ramos Bros.	-	1918	110	5- 3/16	-	-
16	15 miles west	W. W. Jones	-	-	-	-	-	-
17	16 miles west	do.	-	Old	16	48	-	-
18	16½ miles west	Wormser No. 3	Houston Oil Co.	1931	4,904	-	-	-
19	do.	Wormser No. 1	Pittsburg Oil & Development Co.	1926	3,705	-	-	-
20	15¼ miles west	Holbein-Wormser No. 1	Allen & Morris Co.	1932	1,819	-	-	-
20a	do.	Holbein-Wormser No. 2	do.	1932	1,196	12½	-	-
21	do.	Lasater No. 1	Houston Oil Co.	1929	4,120	10	-	-
22	do.	Holbein-Wormser No. 1	do.	1930	6,000	12	-	-
23	16 miles west	Holbein-Wormser No. 2	do.	1930	4,861	-	-	-

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

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

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulphate d/	
1	-	-	W	S	500	650	90	Bueno Suerte well.
2	-	-	W	S	380	500	75	
3	-	-	H	D,S	2,300	3,100	300	Magueyes well.
4	32	Mar. 6, 1933	W	D,S,I	360	470	-	Temperature 76° F.
5	34	do.	W	D,S	75	290	-	Irrigates 1 acre of citrus fruits.
6	21	Mar. 4, 1933	W	S	100	300	-	
7	20	Mar. 6, 1933	W	D,S	70	280	-	
8	-	-	W	D,S	50	250	-	
9	-	-	H	D,S	40	280	-	
10	-	-	W	D,S	650	750	-	
11	-	-	W	D,S	320	280	-	
12	-	-	W	S	270	340	-	Coyotes well.
13	-	-	W	D,S	480	480	-	Solis Number 1 well.
14	37.5	Feb. 24, 1933	W	S	260	380	-	Solis Number 2 well.
15	45.0	Feb. 3, 1933	W	S	220	320	40	Temperature 76½° F.
16	-	-	W	D,S	110	310	-	Palos well.
17	-	-	W	S	220	480	-	En el Arroyo dug well.
18	-	-	-	-	-	-	-	Oil test.
19	-	-	-	-	-	-	-	Do.
20	-	-	-	-	-	-	-	Do.
20a	-	-	-	-	-	-	-	Do.
21	-	-	-	-	-	-	-	Do.
22	-	-	-	-	-	-	-	Do.
23	-	-	-	-	-	-	-	Do.

c/ Hardness as calcium carbonate determined by the soap method.

d/ Sulphate test by turbidity method and may be as much as 25 percent in error.

e/ For analyses see table of water analyses.

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

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
24	16½ miles west-southwest	Holbein-Wormser No. 1	Southern Crude Oil Purchasing Co.	1930	5,105	-	-	-
51	14 miles west	Scott & Hopper	-	Old	72	5- 3/16	-	-
52	13½ miles west	do.	-	1928	450+	5- 3/16	-	-
53	15 miles west-southwest	do.	-	1915	350+	5- 3/16	-	-
54	14 miles west-southwest	do.	-	1915	350+	4¼	-	-
61	18 miles west-southwest	Andres Canales	-	-	-	-	-	-
62	19½ miles west-southwest	W. G. Clark	-	-	-	5- 3/16	-	-
63	20 miles west-southwest	F. H. Knight	Chester Downs	-	470	4¼	-	-
64	21 miles west-southwest	do.	-	1915	60+	5- 3/16	-	-
65	20½ miles west-southwest	do.	-	1915	42	4¼	-	-
66	18 miles west-southwest	J. C. Saunders	-	-	-	4¼	-	-
67	17½ miles west-southwest	do.	-	-	55	-	-	-
68	do.	do.	-	Old	55	120	-	-
69	do.	do.	-	-	85	4¼	-	-
70	19 miles west-southwest	do.	-	-	-	-	-	-
71	20 miles west-southwest	do.	-	-	100	4¼	-	-
72	19 miles west-southwest	do.	-	-	79	4¼	-	-
73	15½ miles west-southwest	Powers No. 1	Cambrian Producing Co.	-	3,169	-	-	-
74	do.	Maupin No. 2	-	-	2,357	-	-	-
75	do.	Maupin No. 1	-	-	1,388	-	-	-
76	15 miles west-southwest	Singer No. 2	Humble Oil & Refining Co.	-	5,084	-	-	-
77	do.	Singer No. 1	do.	-	4,548	-	-	-
78	15½ miles west-southwest	W. M. Singer	-	-	220	4¼	-	-
e/ 79	13 miles west-southwest	J. T. Maupin	-	1900	100	5- 3/16	-	-
80	15½ miles west-southwest	Richard Myrick	-	1909	85	8	-	-
81	16½ miles west-southwest	do.	-	1915	90	4¼	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride c/	Hardness d/	Sulphate d/	
24	-	-	-	-	-	-	-	Oil test.
51	55.7	Feb. 26, 1933	W	D,S	200	330	-	Chaparros Prietos well. Reported to be 150 feet deep.
52	42.1	Feb. 24, 1933	W	S	100	240	-	Carrizos well.
53	13	Feb. 20, 1933	W	S	450	800	-	Jersey well.
54	14.0	do.	W	S	150	380	-	Garcia well.
61	-	-	W	S	250	550	-	Dug well.
62	-	-	W	S	950	750	-	
63	-	-	W	D,S	550	700	-	
64	21.9	May 13, 1933	W	S	210	370	-	
65	29.0	do.	W	S	270	300	-	
66	-	-	W	S	650	600	-	
67	-	-	H	D	500	170	-	
68	39.5	Feb. 20, 1933	W	D,S	550	400	-	Dug well, 10 feet square, lined with
69	30	Mar. 7, 1933	W	S	700	440	-	blocks of caliche.
70	28	do.	W	S	1,000	800	-	
71	26	do.	W	S	370	420	-	
72	32	do.	W	S	1,100	1,100	-	
73	-	-	-	N	19,000	5,000	-	Oil test. Water stands at top of casing.
74	4	Feb. 25, 1933	-	N	130	45	-	
75	-	-	-	N	-	-	-	
76	-	-	-	N	-	-	-	
77	-	-	-	N	-	-	-	Oil test.
78	-	-	W	S	250	340	-	Two dry abandoned 80 foot wells near
79	89.5	Feb. 26, 1933	W	S	110	340	-	this well.
80	-	-	W	D,S	140	300	-	
81	50	Mar. 4, 1933	W	S	500	450	-	

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
82	17 miles southwest	Richard Myrick	-	1909	90	5- 3/16	-	-
83	15½ miles southwest	do.	-	-	75	5- 3/16	65	10
84	do.	Mary Powers	-	-	400+	5- 3/16	-	-
85	14½ miles southwest	Charles Hoffman	-	1896	90	6- 5/8	-	-
86	13½ miles southwest	William Singer	J. M. Calderon	1908	90	5- 3/16	-	-
87	do.	-- Velva	-	-	75	5- 3/16	-	-
88	9½ miles west-southwest	Lazaro Lopez	-	1900	150	5- 3/16	-	-
89	10½ miles west-southwest	Andres Lopez	-	1903	175	6- 5/8	-	-
90	10 miles west-southwest	Lazaro Lopez	-	1929	80	-	-	-
91	10 miles southwest	Domingo Garza	-	-	-	5- 3/16	-	-
92	8½ miles west-southwest	Donanciano Garza	-	1908	-	-	-	-
93	8½ miles southwest	Lazaro Lopez	-	-	-	4¼	-	-
94	9 miles southwest	Luis Lopez	-	1900	-	5- 3/16	-	-
95	do.	Crisogono Lopez	Guermo Perez	1926	100+	4¼	-	-
96	do.	do.	-- Fermin	1920	56	4¼	-	-
151	13 miles west	J. D. Cage Estate	-	1913	135	5- 3/16	-	-
152	13½ miles west	do.	-	1933	3	36	-	-
153	11 miles west	do.	A. Calderon	1912	171	5- 3/16	-	-
154	9½ miles west	do.	-	1917	60	5- 3/16	-	-
155	6½ miles west-northwest	do.	A. Calderon	1912	257	4¼	-	-
156	7 miles west	do.	-	1918	103	5- 3/16	-	-
157	9 miles west	do.	-	1903	90	5- 3/16	-	-
158	do.	do.	-	1903	90	5- 3/16	-	-
159	12½ miles west	do.	A. Calderon	1912	103	5- 3/16	-	30

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
82	-	-	W	S	110	340	-	
83	51.0	Mar. 4, 1933	W	S	310	450	-	
84	37.5	do.	W	S	1,100	900	-	
85	42.0	do.	W	S	230	350	-	Alemana well.
86	-	-	W	S	1,000	1,000	-	Paloma well.
87	-	-	W	D,S	390	350	-	
88	65.0	May 13, 1933	W	S	130	470	-	Illusion well.
89	32.1	Feb. 4, 1933	W	S	310	600	-	
90	-	-	J,G,1½	D,S	220	410	-	
91	-	-	W	D,S	100	270	-	
92	43.0	Feb. 4, 1933	H	D,S	140	390	-	
93	-	-	W	S	250	500	-	Rodeo well.
94	-	-	W	D,S	220	410	-	
95	-	-	W	S	110	280	-	
96	46.0	May 12, 1933	H	D,S	80	310	-	
151	51.5	Feb. 3, 1933	W	S	400	480	120	Tinaja well.
152	-	-	-	N	6,000	5,000	-	Test hole in bottom of Palo Blanco
153	-	-	W	S	250	440	130	Inglesas Creek well.
154	45.0	Feb. 3, 1933	W	S	430	600	100	Luciana well.
155	34.5	Dec. 15, 1932	W	S	550	500	80	"Number One" well. Reported water level in April, 1912, 30 feet below top of
156	34.0	Feb. 3, 1933	W	S	420	550	-	Palomas casing well.
157	37.5	do.	W	S	440	600	-	Coyote Number 1 well.
158	-	-	-	N	-	-	-	Coyote Number 2 well.
159	32.2	Feb. 3, 1933	W	S	170	250	-	Quiotillas well. Reported water level in June 1912, 30 feet below top of casing.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Palfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
160	10 $\frac{1}{2}$ miles west	J. D. Cage Estate	-	1915	200	5- 3/16	-	-
161	do.	do.	-	1914	20	-	-	-
162	10 miles west	do.	-	1913	150	5- 3/16	-	-
163	7 $\frac{1}{2}$ miles west	do.	-	1917	127	5- 3/16	-	-
164	9 miles west-southwest	do.	-	1916	70	5- 3/16	-	-
165	10 miles west-southwest	do.	A. Porter	1929	380	5- 3/16	334	56
166	11 $\frac{1}{2}$ miles west-southwest	do.	-	1908	300	5- 3/16	-	-
167	do.	do.	-- Caldwell	1908	160	5- 3/16	-	-
168	13 miles southwest	do.	-	1910	75	5- 3/16	-	-
169	7 miles west-southwest	do.	Perry Downs	1908	810	5- 3/16	-	-
170	7 miles southwest	do.	-	1908	700	5- 3/16	-	-
171	7 $\frac{1}{2}$ miles southwest	do.	L. Calderon	1918	100	5- 3/16	-	-
172	8 miles southwest	do.	-	1903	200	5- 3/16	-	-
173	do.	do.	-	1913	213	5- 3/16	-	-
174	6 $\frac{1}{2}$ miles south-southwest	do.	-	1903	150	5- 3/16	-	-
175	do.	do.	Chester Downs	1918	696	5- 3/16	-	-
176	7 $\frac{1}{2}$ miles south	do.	Rupp & Porter	1931	672	4 $\frac{1}{4}$	638	-
177	do.	do.	-	Old	188	5- 3/16	-	-
178	9 miles south-southwest	do.	Chester Downs	-	672	5- 3/16	630	40

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
160	16.6	Feb. 3, 1933	W	S	370	480	-	Tule well.
161	-	-	-	N	-	-	-	Tule dug well. Abandoned and filled.
162	41.8	Feb. 3, 1933	W	S	600	600	-	Baile well. Also reported as 65 feet deep.
163	-	-	W	S	1,600	1,200	-	Salado well.
164	19.3	Feb. 3, 1933	W	S	900	1,100	-	Cachucha well. Also reported as 36 feet deep.
165	-	-	W	S	160	340	-	Saucitas well. Casing: 97½ feet of 5-3/16-inch swedged to 235 feet
166	24.6	Feb. 3, 1933	W	S	130	280	-	Calle-tano well, also called Cametano
167	35.6	do.	W	S	150	340	-	Baluarte well.
168	52.5	Feb. 4, 1933	W	S	55	170	-	Madrigueres well.
169	27.3	Feb. 3, 1933	W	S	170	230	-	Mesquite well. Also reported as 680 feet deep.
170	49.5	Feb. 4, 1933	W	S	290	500	-	Gua-jalote well.
171	48.0	do.	W	S	150	240	-	Vargas well. Reported water level in March, 1918 48 feet below top of casing. Casing: 98 feet of 5-3/16-inch.
172	39.8	do.	-	N	180	230	-	Abra Guadalupe well.
173	-	-	W	S	130	180	-	Casing: 199 feet of 5-3/16-inch. South Vargas well with 19 feet perforated.
174	10.4	Feb. 4, 1933	-	N	700	-	-	South Burro well.
175	Flows	do.	F	S	130	240	-	Burro well. Yield, 5 to 6 gallons a minute.
176	Flows	Jan. 17, 1933	F	S	170	240	-	Number 8 well. Casing: 672 feet of 4½-inch with 8 feet perforated at bottom.
177	6.4	Feb. 27, 1933	-	N	2,000	-	-	Plan Grande well.
178	-	-	W	S	170	120	-	Cuero well. Casing: 497 feet of 5-3/16-inch and 185 feet of 4½-inch with 10 foot lap with 40 feet of strainer at bottom. Reported flow of 2½ gallons a minute when completed.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
179	9 miles south-southwest	J. D. Cage Estate	-	Old	50	6	-	-
180	do.	do.	Doug McGinnis	1913	667	5- 3/16	-	-
181	10 miles southwest	do.	do.	1913	231	5- 3/16	-	-
182	do.	do.	-	1900	51	5- 3/16	-	-
183	12½ miles southwest	do.	Chester Downs	1926	580	4¼	-	-
184	14 miles southwest	do.	-	1903	103	5- 3/16	-	-
185	do.	do.	Chester Downs	1918	550	5- 3/16	-	-
186	15 miles southwest	do.	-	1908	200	5- 3/16	-	-
187	14 miles south-southwest	do.	Chester Downs	1915	615	5- 3/16	585	30+
188	11½ miles south-southwest	do.	-	1929	620	5- 3/16	-	-
189	13 miles south-southwest	do.	Perry Downs	1903	526	5- 3/16	-	-
190	10 miles south	do.	Chester Downs	Old	502	4¼	-	-
201	5½ miles west-northwest	Lasater Estate	Perry Downs	1911	470+	5- 3/16	-	-
202	4 miles west-northwest	do.	-	-	112	5- 3/16	-	-
203	3½ miles west	do.	Perry Downs	Old	772	5- 3/16	520 625	28 35
204	6 miles west	do.	-	-	110	5- 3/16	748	24
205	5 miles west	do.	Perry Downs	1911	502	5- 3/16	475	27
206	6½ miles west-southwest	do.	Chester Downs	1928	500+	5- 3/16	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
179	-	-	-	N	-	-	-	
180	-	-	W	D,S	210	250	-	Calosa well. Casing: 463 feet of 5-3/16-inch and 192 feet of 4 $\frac{1}{2}$ -inch.
181	39.0	Feb. 4, 1933	W	S	220	420	-	Number 6 well.
182	37.8	do.	-	N	220	360	-	Number 6 abandoned well.
183	13.0	do.	W	S	280	300	-	Chester Downs well.
184	-	-	-	N	-	-	-	Pena abandoned well. Water reported as
185	32.6	Feb. 4, 1933	W	S	200	180	-	Pena well. <u>salty.</u>
186	67.6	do.	W	S	170	330	-	Polla well.
187	Flows	-	F	S	550	650	-	Tres Encinos well. Casing: 501 feet of 5-3/16-inch and 124 feet of 4 $\frac{1}{4}$ -inch with 10 foot lap. 40 feet of perforated casing at bottom.
188	26.8	Feb. 4, 1933	W	S	190	350	-	Sancudo well.
189	7.0	do.	W	S	400	450	-	Berenda well. Casing: 500 feet of 5-3/16-inch. Had a flow when drilled.
190	8.6	Jan. 24, 1933	W	S	190	210	-	Mota Negro or Number 10 well.
201	21.0	Dec. 8, 1932	W	D,S	240	260	35	Trevino dairy well.
202	30.4	do.	W	S	1,700	1,300	200	Esperanza well. Temperature 77° F.
203	-	-	W	D,S	230	230	30	Number 5 well. Formerly had a flow.
204	41.7	Dec. 8, 1932	W	S	1,600	1,500	500	Brazil well.
205	18.4	do.	W	S	390	380	50	Las Conchas well. Casing: 430 feet of 5-3/16-inch and 92 feet of 4 $\frac{1}{2}$ -inch with 34 feet perforated. Reported water level in May, 1911, 10 feet below top of casing.
206	35.5	do.	W	S	150	180	40	Soledad well.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
207	5½ miles west-southwest	Lasater Estate	Perry Downs	1911	487	5- 3/16	460	26
208	4½ miles west-southwest	do.	Chester Downs	1929	800+	5- 3/16	-	-
209	do.	do.	Perry Downs	1915	120+	5- 3/16	-	-
210	4 miles west-southwest	do.	Bill Edwards	--	59	5- 3/16	-	-
211	do.	do.	Chester Downs	1913	752	5- 3/16	-	-
212	do.	do.	Doug McGinnis	1901	775	8¼	-	-
213	do.	do.	Perry Downs	1903	740+	5- 3/16	-	-
214	3 miles west-southwest	do.	Doug McGinnis	-	788	5- 3/16	-	-
215	5 miles west-southwest	do.	A. Calderon	1911	150	5- 3/16	-	-
216	do.	do.	-	-	150	5- 3/16	-	-
217	4½ miles southwest	do.	A. Calderon	-	232	5- 3/16	-	7
218	do.	do.	R. H. Rice	1910	126	5- 3/16	-	-
219	5½ miles southwest	do.	Perry Downs	1910	702	5- 3/16	-	-
220	5 miles southwest	do.	Doug McGinnis	-	501	4¼	-	-
221	4 miles southwest	do.	S. Calderon	1910	125	5- 3/16	-	-
222	3 miles south	do.	Elmer Rupp	1927	800+	12	-	-
223	do.	do.	do.	1927	600+	10	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulphate d/	
207	32.2	Dec. 8, 1933	W	S	190	200	50	Rancho Nuevo or Zepeda farm well.
208	14.1	do.	W	D,S	200	190	35	Los Sabios or West Ward School well. Casing: 700 feet of 5-3/16-inch and 100 feet of 4 $\frac{1}{4}$ -inch with bottom joint
209	28.0	do.	W	S	2,000	1,800	550	Silas perforated. Prietas well.
210	25.3	do.	W	S	1,200	950	280	La Mota Dairy well. Temperature 75° F.
211	9.0	do.	W	D,S,I	230	190	60	La Mota Number 4 well. Casing: 584 feet of 5-3/16-inch and 186 feet of 4 $\frac{1}{4}$ -inch with 18 foot lap and 40 feet perforated. Had small flow when completed.
212	Flows	do.	F,W	D,S,I	200	210	60	La Mota well. Casing: 621 feet of 8 $\frac{1}{4}$ -inch and 151 feet of 6-5/8-inch, 22 foot lap.
213	9.9	do.	W	D,S,I	210	220	30	Casing: 500 feet of 5-3/16-inch with 3 inch drill stem in bottom. Flow stopped about 1920.
214	5.	do.	W	D,S	280	300	60	La Fruta well.
215	27.9	do.	H	D	650	250	40	La Mota Vieja. Casing: 132 feet of
216	28.8	do.	W	S	500	270	80	La Mota Vieja. Casing: 5-3/16-inch. Temperature 76° F.
217	31.2	do.	W	D,S	260	280	180	Una de Gato well. Casing: 232 feet of 5-3/16-inch with 7 feet perforated.
218	24.2	do.	W	S	490	410	240	Una de Gato well.
219	38.3	Dec. 9, 1933	W	S	600	500	320	Medanos well.
220	36.2	Dec. 10, 1932	W	S	1,000	950	550	Tecolote well.
221	42.8	do.	W	S	850	900	500	Justo well.
222	Flows	Jan. 4, 1933	F	S	140	180	70	Temperature 86° F. Yield, 12 gallons a
223	3.3	Oct. 23, 1932	-	N	-	-	-	Reported minute. as a very weak well.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
224	3 miles south	Lasater Estate	Downing	1905	810	5- 3/16	735	72
225	5 miles south	do.	Caldwell	Old	160	-	-	-
226	5 miles south-southeast	do.	Perry Downs	1910	647	5- 3/16	620	26
227	6½ miles south	do.	do.	1909	909	5- 3/16	610 753 865	35 45
228	5½ miles south-southeast	Lasater No. 2	The Texas Co.	1927	250	-	-	-
229	do.	Lasater No. 1	do.	1927	430	-	-	-
230	do.	Lasater No. 3	do.	1927	4,878	-	-	-
231	6 miles south-southeast	Gulf Gypsum Co.	Elmer Rupp	-	639	5- 3/16	-	-
232	do.	do.	Kone Production Co.	1927	3,512	-	-	-
233	do.	Lasater No. 2	Producers Oil Co.	1913	1,050	-	-	-
234	do.	Lasater No. 1	do.	1912	622	-	-	-
235	do.	do.	Kone Production Co.	1926	3,514	-	-	-
236	5½ miles southeast	Lasater Estate	-	-	-	4¼	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
224	Flows	Oct. 23, 1932	F,W	D,S	150	195	80	Cabezas Blancas well. Casing: 713 feet of 5-3/16-inch and 114 feet of 4 1/4-inch with 72 feet perforated at bottom. Temperature 87 1/2° F. Yield, about 10 gallons a minute.
225	Flows	Jan. 4, 1933	F,W	D,S	180	200	120	Novillo well. Reported flow (prior to 1907) f/ 75 gallons a minute. Temperature 85 1/2° F. Yield 12 gallons a minute.
226	Flows	Dec. 10, 1932	F,W	D,S	150	175	180	Alto Colorado well. Casing: 548 feet of 5-3/16-inch and 148 feet of 4 1/4-inch with 37 feet perforated at bottom. Temperature 87° F. Yield, 14 gallons a minute.
227	Flows	do.	F	S	140	170	180	Taga well. Casing: 596 feet of 5-3/16-inch, 331 feet of 4 1/4-inch with strainers in 610, 753, and 865 foot sands. Temperature 87° F. Yield, 15 gallons a minute.
228	-	-	-	-	-	-	-	Oil test. Gypsum reported from 95 to 250 feet.
229	-	-	-	-	-	-	-	Oil test. Gypsum reported from 270
230	-	-	-	-	-	-	-	Oil test. to 430 feet.
231	-	-	J,G,2	D,S	130	190	-	
232	-	-	-	-	-	-	-	Oil test.
233	-	-	-	-	-	-	-	Do.
234	-	-	-	-	-	-	-	Do.
235	-	-	-	-	-	-	-	Do.
236	-	-	W	S	800	500	200	Loma Blanca shallow water well.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
251	4½ miles northwest	Zimmerman	Zimmerman	1907	656	5-3/16	-	-
252	4 miles northwest	G. Weatherly	do.	-	505	5-3/16	-	-
253	2½ miles northwest	Earl Young	Chester Downs	-	500+	5-3/16	-	-
254	do.	E. G. Maun	do.	1909	500+	12	-	-
255	2¼ miles northwest	J. G. Hayden	do.	-	500+	10	-	-
256	2½ miles north-northwest	W. Zimmerman	do.	-	500+	5-3/16	-	-
257	2¼ miles north-northwest	L. A. Burdett	do.	1912	440+	10	-	-
258	2 miles north	J. R. Strachn	do.	-	500+	-	-	-
259	1¼ miles north	Mrs. B. Myrick	F. G. Sterns	1932	1,315	-	-	-
260	2½ miles northwest	W. Stockton	Elmer Rupp	1925	550	12	-	-
261	2 miles northwest	Lasater Estate	Chester Downs	1906	540	5-3/16	-	-
262	1½ miles northwest	L. L. Chamberlain	do.	1923	497	8	-	-
263	1 mile north	Jose Ramirez	-	-	-	6-5/8	-	-
264	1¼ miles north	Mrs. J. N. Myrick	Chester Downs	-	811	5-3/16	-	-
265	1 mile north	A. B. Watts	Perry Downs	Old	770+	5-3/16	-	-
266	1½ miles west-northwest	Mrs. B. M. McCullar	do.	Old	500+	12	-	-
267	1 mile northwest	John Negri	W. Zimmerman	1928	750	10	-	-
268	do.	A. A. Cosby	Elmer Rupp	1926	550	10	-	-
269	¾ mile north	J. W. Story	-	Old	700+	12	-	-
270	do.	do.	Porter & Rupp	1932	628	8	628	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
251	-	-	W	D,S,I	210	190	30	Casing: 300 feet of 5-3/16-inch, 4 1/2-inch to bottom with 16 feet strainer on
252	-	-	W	D,S,I	220	190	35	Casing: bottom. 300 feet of 5-3/16-inch, 200 feet of 4 1/2-inch with
253	11.0	Dec. 2, 1932	W	D,S,I	210	330	40	Irrigates 2 acres of citrus fruits. strainer.
254	11.0	Oct. 23, 1932	W	D,S,I	200	190	20	Well had a flow when completed.
255	-	-	W	D,S,I	220	180	40	
256	17.2	Dec. 2, 1932	W	D,S	220	180	35	
257	20.0	do.	W	D,S	210	190	40	
258	-	-	W	D,S,I	210	180	30	
259	-	-	-	-	-	-	-	Oil test.
260	-	-	W,A,G	D,S,I	210	190	60	
261	-	-	W	D,S	210	180	40	Mesquite well. Reported flow prior to 1907 100 gallons a minute.
262	-	-	H	D,S	550	130	25	Very weak well.
263	13.4	Dec. 5, 1932	H	D,S	900	1,000	160	
264	24.2	Dec. 2, 1932	W	D,S,I	180	180	75	
265	16.7	July 31, 1933	W	D,S	200	190	50	
266	12.0	Oct. 23, 1932	W	D,S,I	220	210	40	
267	14.5	Nov. 30, 1932	W	D,S,I	200	200	30	Irrigates 26 acres of citrus fruits
268	-	-	W	D,S,I	200	200	40	Irrigates 15 acres of citrus fruits.
269	20.4	Oct. 21, 1932	-	N	-	-	-	Casing collapsed.
270	18.5	do.	A,G,22	D,S,I	200	190	30	Casing: 81 feet of 8-inch and 556 feet of 4 1/2-inch. 5 acres of citrus fruits irrigated. Temperature 83° F.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
271	2 $\frac{1}{4}$ miles west	G. Trevino	Doug McGinnis	Old	753	12	734	19
272	do.	Oliver	Chester Downs	1915	730+	5- 3/16	-	-
273	1 $\frac{1}{2}$ miles west	George Frank	do.	Old	710	5- 3/16	-	-
274	do.	Robert Adair	do.	-	680+	10	-	-
275	1 $\frac{1}{4}$ miles west	C. M. Whistler	Perry Downs	1907	700+	5- 3/16	-	-
276	1 mile west	C. H. Hopper	Downing	-	865	10	-	-
277	$\frac{3}{4}$ mile west	J. E. McDonald	O. S. Caldwell	Old	900+	8	-	-
278	In Falfurrias	S. Guerrero	-	-	22	10	-	-
279	do.	Lasater Estate	J. W. Brown	Old	700+	5- 3/16	-	-
e/280	do.	Central Power & Light Co.	Layne-Texas	1930	755	12	682	68
281	do.	do.	Chester Downs	1922	749	5- 3/16	682	67
301	2 miles west	T. C. Jones	Groves	1907	808	8	-	-
302	do.	H. Hanson	Chester Downs	1912	700+	-	-	-
303	1 $\frac{3}{4}$ miles west	Amos Schertz	do.	1909	692	4 $\frac{1}{4}$	-	-
304	1 $\frac{1}{2}$ miles west	J. H. Scaggs	Slackey	1905	950	4 $\frac{1}{4}$	-	-
305	do.	do.	Elmer Rupp	1925	800	5- 3/16	750	50
306	1 $\frac{1}{4}$ miles west	Doris Taylor	Slackey	Old	-	5- 3/16	-	-
307	do.	do.	Elmer Rupp	1933	604	-	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power <u>a/</u>	Use of water <u>b/</u>	Field tests			Remarks
	Depth below top of casing	Date of measurement			parts per million			
					Chlo-ride	Hard-ness <u>c/</u>	Sul-phate <u>d/</u>	
271	13.3	Nov. 30, 1932	W	D,S,I	220	170	40	Other sands at 590 to 630 and 680 to
272	15.0	Oct. 23, 1932	W	D,S	210	210	40	707 feet.
273	11.5	Nov. 30, 1932	W	D,S,I	210	220	40	Irrigates 12 acres of citrus fruits. Well had a flow when completed.
274	19.2	July 27, 1933	W	D,S,I	250	280	100	Irrigates 1 acre of citrus fruits and
275	21.8	Nov. 30, 1932	W	D,S,I	210	210	30	garden.
276	19.6	do.	W	D,S	200	200	35	Other water sands at 540 and 660 feet.
277	16.7	do.	T,E,3	D,S,I	190	180	35	Irrigates 10 acres of citrus fruits.
278	6.0	Sept.25, 1933	-	W	-	-	-	Water reported salty.
279	-	-	W	D,S	200	210	40	
280	14.0 20.2	Oct. 22, 1932 Apr. 3, 1940	T,E,30	P,R,R.	190	200	40	Casing: 141 feet of 12-inch, 548 feet of 8-inch with 13 foot lap into 12-inch and 61 feet of 8-inch screen.
281	15.0 20.3	Oct. 22, 1932 Apr. 3, 1940	A,E,25	P,R,R.	190	200	50	Casing: 578 feet of 5-3/16-inch, 188 feet of 4 1/4-inch and 63 feet of 4 1/4-inch
301	12.3	July 27, 1933	W	D,S,I	210	220	70	Irrigates 6 acres of citrus fruits. Stopped flowing in
302	-	-	A,G,-	D,S,I	220	220	40	Irrigates 1910. 7 acres of citrus
303	-	-	W	D,S,I	220	220	40	Irrigates 3 1/2 acres of citrus
304	13.8	Nov. 30, 1932	W	D,S,I	210	210	30	fruits.
305	-	-	A,G,-,W	D,S,I	212	200	-	Irrigates 22 acres of citrus fruits. Casing: 610 feet of 5-3/16-inch and 4 1/4-inch to bottom.
306	-	-	W	N	2,400	1,500	600	Water became salty in 1930 and well has been abandoned.
307	12.1	July 27, 1933	W	D,S,I	-	-	-	Irrigates 17 acres of citrus fruits.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
308	1 mile west	Richard Miller	Chester Downs	1933	607	8	-	-
309	do.	do.	Grove	-	662	5- 3/16	-	-
310	$\frac{3}{4}$ mile west	Val Stockton	Chester Downs	1913	590	5- 3/16	-	-
311	do.	Chester Downs	do.	1926	591	8	565	25
312	do.	Frank Porter	Perry Downs	-	580	5- 3/16	555	25
313	In Falfurrias	W. G. Schutz	Chester Downs	1911	591	6- 5/8	-	-
314	do.	George Spark	do.	1912	590	4 $\frac{1}{4}$	-	-
315	do.	W. B. Gardner	do.	1907	590 ⁺	5- 3/16	-	-
316	2 miles west-southwest	H. Obervetter	Doug McGinnis	1907	812	5- 3/16	781	31
317	2 $\frac{1}{2}$ miles west-southwest	Lasater Estate	-	-	70	5- 3/16	-	-
318	1 $\frac{3}{4}$ miles west-southwest	A. A. Dague	Chester Downs	-	900 ⁺	5- 3/16	-	-
319	1 $\frac{1}{2}$ miles west-southwest	E. L. Keener	do.	-	795	5- 3/16	-	-
320	1 $\frac{1}{4}$ miles southwest	J. J. Allen	Perry Downs	1906	850	10	-	-
321	1 mile southwest	A. T. Richardson	Chester Downs	1909	811	12	-	-
322	do.	R. Baltesel	-	-	17	5- 3/16	-	-
323	do.	R. D. Donahoe	C. Reina	1931	25	6	-	-
324	1 $\frac{1}{4}$ miles south-southwest	L. O. Atkinson	-	-	18	48	-	-
325	1 miles south	J. T. Maupin	Perry Downs	1907	810	5- 3/16	-	-
326	do.	C. D. Fager	J. W. Brown	-	-	3 $\frac{1}{4}$	-	-
327	do.	Hobbs	Chester Downs	1912	610	-	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness c/	Sul-phate d/	
303	13.2	June 23, 1933	W	D,S,I	-	230	-	Irrigates 5 acres of citrus fruits. Casing: 85 feet of 8-inch and 523 feet of 4 $\frac{1}{4}$ -inch with 11
309	-	-	W	N	200	210	30	This <input type="text"/> foot lap. well became salty about May 1, 1933 and well 308 was drilled to replace
310	14.1	July 27, 1933	W	D,S	200	210	35	<input type="text"/> it.
311	14.2	Oct. 22, 1932	W	D,S,I	200	210	70	Irrigates 3 acres of citrus fruits.
312	-	-	W	D,S,I	200	180	30	Irrigates 1 acre of citrus fruits.
313	-	-	W	D,S,I	200	210	30	Casing: 20 feet of 6-5/8-inch. 4 $\frac{1}{4}$ -inch to bottom. 72 feet of 3 $\frac{1}{4}$ -inch casing inserted from surface to 72 feet.
314	11.3	July 27, 1933	W	D,S,I	210	180	30	Irrigates 1 acre of citrus fruits.
315	-	-	W	D,S,I	200	180	30	
316	18.7	Dec. 1, 1932	W	D,S,I	210	190	60	Other sands at 620 to 641 and 722 to
317	-	-	-	N	-	-	-	Well <input type="text"/> 743 feet. plugged with stones
318	-	-	W	D,S,I	240	230	50	Irrigates 2 acres of citrus fruits. and iron.
319	-	-	W	D,S,I	210	200	30	Irrigates 1 acre of citrus fruits.
320	-	-	W	D,S	200	190	40	
321	-	-	W	D,S,I	200	210	30	Irrigates 2 acres of citrus fruits.
322	6.4	Sept. 20, 1933	H	D,S	750	800	40	
323	6.9	do.	H	D,S	25	80	80	
324	13.0	Dec. 5, 1932	W	D,S	190	90	240	
325	3.1	Dec. 1, 1932	W	D,S,I	190	210	35	Irrigates 17 acres of citrus fruits.
326	9.2	June 4, 1933	A,G,-,W	D,S,I	210	250	-	Irrigates 8 acres of citrus fruits and 4 acres of vegeta-
327	-	-	J,G	D,S	-	-	-	<input type="text"/> bles.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
328	1 mile south	Benito Vereal	Chester Downs	1931	630	-	-	-
329	2½ miles west-southwest	Segundo Garza	-	-	-	5- 3/16	-	-
330	1½ miles southwest	J. R. Forsyth	W. Zimmerman	1930	684	10	-	-
331	do.	Mrs. Edith Bedell	-	-	18	5- 3/16	-	-
332	1½ miles south-southwest	J. M. Leurir	-	1910	750	5- 3/16	-	-
e/333	1¼ miles south	A. L. Brochet	-	-	11	36	-	-
334	do.	Frank Salinas	-	-	16	4¼	-	-
335	do.	F. C. Bevel	-	-	18	4¼	-	-
336	do.	do.	-	-	20	5- 3/16	-	-
337	1½ miles south	Mrs. J. S. Donahoe	Perry Downs	-	900+	12	-	-
338	2 miles southwest	Chas. Atkins	W. Zimmerman	1930	755	10	-	-
339	1¼ miles south	H. M. Bennett	O. S. Caldwell	1905	858	5- 3/16	-	-
340	2 miles south	do.	Shrock & Rupp	1927	742	6¼	710	32
341	3 miles southwest	J. Hinnett	-	Old	1,000+	5- 3/16	-	-
342	2¾ miles south-southwest	George Franks	Chester Downs	-	807	6	-	-
343	3¼ miles south-southwest	Russell Myrick	do.	1916	640+	4¼	-	-
371	2¼ miles north-northeast	C. Fager	do.	-	640	12	-	-
372	1½ miles north-northeast	J. N. Myrick	Perry Downs	-	807	8	-	-
373	3 miles northeast	Lino Trevino	-	-	535	5- 3/16	-	-
374	do.	T. Gonzales	-	-	-	-	-	-
375	3¼ miles northeast	Victor Garza	-	-	-	-	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness c/	Sul-phate d/	
328	-	-	W	D,S,I	-	-	-	Irrigates 1 acre of vegetables.
329	-	-	W	D,S	1,000	900	400	
330	-	-	W	D,S,I	220	210	25	Casing: 90 feet of 10-inch and 6-5/8-inch to bottom. 10 acres of citrus fruits irrigated.
331	6.2	Sept.25, 1933	-	N	-	--	-	
332	-	do.	A,G,-,W	D,S,I	240	230	30	Irrigates 3 acres of citrus fruits; 12 acres of citrus fruits not irrigated.
333	4.1	Sept.20, 1933	H	S	1,900	1,400	200	
334	6.1	do.	H	S,I	975	320	300	
335	5.5	Sept.19, 1933	H	D	-	-	-	
336	9.8	Dec. 5, 1932	H	D,S	430	320	800	
337	9.6	do.	W	D,S	172	190	30	Well had a flow when completed.
338	-	-	W	D,S,I	200	210	25	Irrigates 3 acres of citrus fruits.
339	6.3	July 22, 1933	W	D,S,I	170	200	30	Irrigates 1 acre of citrus fruits. Well had a flow until
340	4.0	Dec. 6, 1932	W	D,S,I	155	170	50	Irrigates 1937. 4½ acres of citrus fruits. Casing: 42 feet of 6¼-inch swedged to 667 feet of 4¼-inch.
341	-	-	W	D,S	180	170	60	Well had a strong flow when completed.
342	0.5	Oct. 23, 1932	W	D,S	150	210	65	
343	Flows	Oct. 22, 1932	F	D,S	210	180	80	Temperature 82° F.
371	-	-	W	D,S,I	210	190	40	
372	32.1	Dec. 2, 1932	W	D,S,I	180	210	70	
373	25.	Dec. 21, 1932	W	S	2,800	1,400	120	
374	45.0	Aug. 4, 1933	W	D,S	-	-	-	
375	20.1	do.	W	D,S	-	-	-	

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
376	3½ miles northeast	-	-	-	-	-	-	-
377	3¾ miles northeast	Longoria	-	-	-	-	-	-
378	4½ miles east-northeast	Esperon Lada	-	-	4¼	-	-	
379	5¾ miles east-northeast	W. G. Schutz	Chester Downs	-	640	5- 3/16	-	-
380	1 mile north-northeast	C. Hobbs	Tamez	-	-	5- 3/16	-	-
381	1½ miles northeast	R. B. Klump	Porter & Rupp	1929	670	10	620	50
382	do.	D. Hinojosa	-	-	28	5	-	-
383	do.	J. P. Hinojosa	-	-	500+	4¼	-	-
384	1¼ miles northeast	J. W. Chandler	Chester Downs	-	600+	10	-	-
385	1 mile east-northeast	Ed Rachal	do.	-	697	5- 3/16	-	-
386	do.	Thomas Wilson	do.	-	550+	10	-	-
387	1¼ miles east-northeast	John C. Thomas	do.	-	555+	10	-	-
388	1½ miles east-northeast	Mrs. J. P. Yeager	do.	1910	540+	10	-	-
389	do.	H. M. Taylor	Porter & Rupp	1929	689	10	-	-
390	In Falfurrias	S.A. & A.P. R.R.	Downing	-	810	5- 7/8	-	-
391	½ mile east-northeast	Larry Miller	J. W. Brown	1906	1,020	-	650 690 760	20 40 20
392	¾ mile east	W. G. Agnew	Chester Downs	-	580	5- 3/16	816	40
393	1 mile east	T. R. Bennett	do.	1929	580	8	-	-
394	1½ miles east	H. E. Sanders	-	-	700+	10	-	-
395	do.	do.	J. W. Brown	-	595	5- 3/16	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness c/	Sul-phate d/	
376	-	-	W	D,S	-	-	-	
377	15.4	Aug. 4, 1933	W	D,S	-	-	-	
378	-	-	W	D,S	210	220	-	
379	17.4	Dec. 8, 1932	H	D,S	190	180	100	
380	-	-	W	D,S	210	210	35	
381	20.8	Dec. 6, 1932	W	D,S,I	190	170	30	Casing: 60 feet of 10-inch and 565 feet of 5-3/16-inch.
382	20.3	do.	-	N	-	-	-	
383	43.0	Oct. 25, 1932	W	D,S	2,900	1,600	250	Casing collapsed and well is plugged
384	-	-	W	D,S	370	380	70	at 95 feet.
385	-	-	W	D,S	2,000	1,200	200	Water became "salty" in 1931.
386	-	-	W	D,S,I	210	230	45	Irrigates 5 acres of citrus fruits.
387	-	-	W	D,S	220	180	30	
388	-	-	W	D,S	2,400	1,600	160	
389	-	-	T,E,7½	D,S,I	180	180	25	Irrigates 10 acres of citrus fruits and 20 acres of vegetables.
390	11.5	Oct. 25, 1932	-	N	195	-	-	Reported flow, prior to 1907; 150 gallons a minute. f/
391	-	-	W	P	160	190	45	Reported flow, prior to 1907; 80 gallons a minute. f/
392	10.8	Oct. 25, 1932	-	N	-	-	-	
393	-	Nov. 29, 1932	J,G,6	D,S,I	178	190	50	Irrigates 5 acres of citrus fruits and 5 acres of vegetables. Casing: 80 feet of 8-inch, 400 feet of 4¼-inch and 113 feet of 3¼-inch with last 20 feet perforated. Yield, 57 gallons a minute.
394	-	-	W	N	-	-	-	
395	-	-	W	D,S	180	190	20	

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
396	1 $\frac{3}{4}$ miles east	A. W. Dale	Chester Downs	1926	720	12	-	-
397	2 $\frac{1}{4}$ miles east	do.	-	-	520	5- 3/16	-	-
398	2 $\frac{3}{4}$ miles east	J. L. Garza	Chester Downs	-	580	10	-	-
399	4 miles east	J. B. Dekle	Porter & Rupp	1930	505	8	478	27
400	do.	Robert Blumer	Elmer Rupp	1930	515	8	480	-
401	4 $\frac{1}{2}$ miles east	O. B. Fort	Chester Downs	-	518	8	-	-
402	do.	G. D. Waterwall	Porter & Rupp	1932	606	8	596	-
403	5 miles east	Criswell	Chester Downs	-	480+	5- 3/16	-	-
404	do.	D. J. Gross	do.	1914	608+	5- 3/16	-	-
405	do.	A. Rupp	Elmer Rupp	1923	612	5- 3/16	-	-
406	5 $\frac{1}{2}$ miles east	C. K. Russell	Chester Downs	1909	500+	5- 3/16	-	-
407	2 $\frac{1}{4}$ miles northeast	-	-	-	-	36	-	-
451	$\frac{1}{2}$ mile east-southeast	T. S. Proctor	Perry Downs	Old	562	4 $\frac{1}{4}$	-	-
452	1 $\frac{1}{4}$ miles east	K. B. Rosene	Elmer Rupp	1925	717	12	-	-
453	1 $\frac{1}{2}$ miles east-southeast	Lillian Helms	J. D. Helms	1932	25	6	-	-
454	do.	J. D. Helms	do.	1932	25	3	-	-
455	do.	F. L. Vickery	J. W. Brown	Old	700	8 $\frac{1}{4}$	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of life and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo- ride	Hard- ness c/	Sul- phate d/	
396	-	-	W	D,S,I	1,000	500	80	Irrigates 3 acres of citrus fruits, Casing: 80 feet of 12-inch, 5-3/16-inch to top of sand and 4 1/4-inch through sand.
397	16.6	Dec. 7, 1932	W	N	170	-	-	
398	-	-	W	D,S,I	180	150	30	Irrigates 1 acre of citrus fruits.
399	15.8	Dec. 7, 1932	W	D,S,I	190	150	30	Irrigates 10 acres of citrus fruits. Casing: 65 feet of 8-inch swedged to 412 feet of 4-inch.
400	20.3	Dec. 8, 1932	W	N	-	-	-	Casing: 62 feet of 8-inch swedged to 418 feet of 4-inch.
401	19.5	do.	W	D,S,I	200	210	35	Irrigates 13 acres of citrus fruits.
402	14.9	Aug. 8, 1933	W	D,S,I	190	200	50	Irrigates 2 1/2 acres of citrus fruits. Casing: 80 feet of 8-inch, 523 feet of 5-3/16-inch.
403	15.6	Dec. 8, 1932	H	N	220	-	20	
404	-	-	W	D,S,I	200	220	200	
405	19.1	Oct. 21, 1932	W	D,S,I	152	170	100	Irrigates 5 acres of citrus fruits and 5 acres of vegetables.
406	14.1	Dec. 8, 1932	W	D,S,I	190	160	60	Irrigates 5 acres of citrus fruits.
407	19.0	Dec. 2, 1932	-	N	40	170	3	Dug well.
451	9.7	Aug. 10, 1933	W	D,S	200	220	50	Reported flow, prior to 1907, 250 gallons a minute.f/
452	-	-	W	D,S,I	180	180	40	Irrigates 14 acres of citrus fruits. Casing: 80 feet of 12-inch, 60 feet of 8-inch and 5-3/16-inch to bottom.
453	19.3	Nov. 28, 1932	-	N	390	45	90	
454	-	-	H	I	390	80	65	Temperature 77° F.
455	19.0	Nov. 28, 1932	W	S	2,200	1,600	140	Water from this well reported to have killed fig trees and garden vegetables.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
456	2 miles east-southeast	P. Garza	-	-	-	4 $\frac{1}{4}$	-	-
457	2 $\frac{1}{4}$ miles east-southeast	Chris Walters	M. Martinez	Old	548	10	-	-
458	2 $\frac{1}{2}$ miles east-southeast	do.	Chris Walters	1931	15	4 $\frac{1}{4}$	-	-
459	do.	G. Trevino	Perry Downs	-	-	4 $\frac{1}{2}$	-	-
460	2 $\frac{1}{2}$ miles east	P. Mangel	Chester Downs	-	580+	5- 3/16	-	-
461	4 miles east-southeast	John Nassiff	do.	1924	660	5- 3/16	-	-
462	4 miles east	-	do.	-	500+	-	-	-
463	4 $\frac{1}{2}$ miles east	Juan Garza	do.	-	518	4 $\frac{1}{2}$	-	-
464	do.	Miss S. B. Trent	do.	-	480	5- 3/16	-	-
465	4 $\frac{1}{4}$ miles east	Davis	-	1911	-	5- 3/16	-	-
466	4 $\frac{3}{4}$ miles east	J. G. Halton	Bird	1913	484	6- 5/8	-	-
467	5 miles east	Flowella Townsite	Chester Downs	1907	640	5- 3/16	-	-
468	do.	A. A. Cosby	do.	-	480	4 $\frac{1}{2}$	-	-
469	do.	S. D. Sanders	do.	-	640	12	-	-
470	5 $\frac{1}{2}$ miles east	East Ward School	Elmer Rupp	-	478	5- 3/16	-	-
471	6 miles east	J. H. Loving	Porter & Rupp	1928	621	12	541	80
472	do.	Kessler	-	1912	600+	5- 3/16	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness c/	Sul-phate d/	
456	-	-	W,H	S	180	150	30	
457	27.1	Nov. 30, 1932	-	N	12,000	3,000	800	Water became salty in 1930.
458	-	-	W	S	70	70	90	Well located in "sink".
459	12.2	Nov. 30, 1932	H	S	1,200	700	200	
460	19.3	Dec. 7, 1932	W	D,S,I	170	140	30	Irrigates 1 acre of citrus fruits.
461	4.5	Dec. 21, 1932	W	D,S,I	180	140	25	Casing: 175 feet of 5-3/16-inch and 4 1/4-inch to bottom.
462	-	-	W	S	170	200	40	
463	-	-	W	D,S,I	200	120	30	Irrigates 1 acre of citrus fruits.
464	17.5	Dec. 8, 1932	W	D,S	200	170	30	
465	-	-	H	D,S	170	160	60	
466	18.2	Mar. 24, 1933	W	D,S	3,500	1,700	800	
467	10.2	Dec. 9, 1932	W	D,S	170	130	40	Well had a flow when completed.
468	-	-	W	D,S,I	300	340	60	Irrigates 8 acres of citrus fruits. Well formerly salty, repaired by rotating 100 feet of 6-inch casing over 4 1/4-inch and cementing between.
469	23.5	Dec. 8, 1932	H	N	190	-	-	
470	15.8	do.	W	P	200	200	45	Casing: 40 feet of 5-3/16-inch and 3 1/2-inch to bottom. Water became salty. Well repaired by rotating 70 feet of 6 1/4-inch over 5-3/16-inch and cementing between.
471	10.0	May 30, 1933	C,G,-,W	D,S I	145	210	-	Irrigates between 4 acres of citrus fruits. Casing: 65 feet of 12-inch lapped over 480 feet of 5-3/16-inch set at top of sand.
472	15.8	Geb. 1, 1933	W	D,S	170	160	-	

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
473	5½ miles east	C. H. Rupp	Elmer Rupp	-	720	5- 3/16	-	-
474	do.	A. Rupp	Chester Downs	1910	472	5- 3/16	-	-
475	do.	do.	Porter & Rupp	1927	603	5- 3/16	570	33
476	1½ miles southeast	Russell Myrick	Perry Downs	1907	856	9- 5/8	650 690 760	20 40 20
477	do.	J. Land	do.	Old	700	8	-	-
478	2 miles east-southeast	F. Gonzales	Chester Downs	-	600+	-	-	-
479	2½ miles east-southeast	B. W. Wise	do.	1929	587	8	-	-
480	2 miles southeast	Robert Blumer	-	-	664	8½	-	-
481	2 miles south	S. R. Boykin	Chester Downs	-	720+	10	-	-
482	2½ miles south-southeast	T. S. Proctor	Perry Downs	1909	846	5- 3/16	640 800	- 46
483	3 miles south	Percy Hunter	Chester Downs	1922	796	12½	749	38
484	do.	do.	do.	1922	800+	12½	-	-
485	3¼ miles south	do.	do.	1922	803	12½	765	38
486	do.	do.	do.	1922	790	12½	730	60
487	3 miles southeast	Ysidro Villareal	do.	-	640	6- 5/8	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness c/	Sul-phate d/	
473	-	-	A,G,-,W	D,S,I	140	180	100	Irrigates 15 acres of citrus fruits. Casing: 500 feet of 5-3/16-inch and 220 feet of 4 1/4-inch set at top of sand.
474	19.0	Oct. 21, 1932	W	D,S,I	160	140	50	Reported water level in 1910 as 4 feet below ground
475	-	-	A,G,20	D,S,I	345	-	-	Irrigates 9 level. acres of citrus fruits. Casing: 570 feet of 5-3/16-inch.
476	-	-	A,G,25	D,S,I	182	190	70	Irrigates 40 acres of citrus fruits. Casing: 407 feet of 9-5/8-inch, 249 feet of 8 1/4-inch and 147 feet of 5-3/16-inch.
477	18.0	Nov. 28, 1932	W	D,S,I	170	180	40	Irrigates 1 acre of vegetables.
478	-	-	W	D,S,I	180	150	66	
479	-	-	W	D,S,I	170	150	30	Casing: 80 feet of 8-inch and 4 1/4-inch
480	21.0	Nov. 30, 1932	W	N	-	-	-	Pump to bottom. broken, water reported very salty.
481	4.7	July 27, 1933	W	D,S,I	170	200	25	
482	8.4	Apr. 25, 1933	W	D,S	170	190	-	Casing: 587 feet of 5-3/16-inch and 269 feet of 4 1/2-inch.
483	-	-	W	D,S,I	150	170	35	Casing: 22 feet of 2 1/2-inch, 627 feet of 5-3/16-inch and 155 feet of 4 1/4-inch.
484	1.8	Dec. 6, 1932	W	I	150	150	30	Well had a flow of 35 gallons a minute
485	-	do.	F,W	I	170	200	30	Casing: in 1933. 22 feet of 12 1/2-inch, 600 feet of 5-3/16-inch, 180 feet of 4 1/4-inch and 100 feet of 3 1/4-inch with bottom 40 feet perforated. Temperature
486	-	-	-	N	-	-	-	Windmill 84° F. broken, well partially plugged.
487	24.5	Dec. 21, 1932	W	D,S	180	160	50	Casing: 80 feet of 6-5/8-inch and 4 1/4-inch to bottom.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
488	3 $\frac{1}{4}$ miles east-southeast	L. Villareal	Chester Downs	Old	500+	-	-	-
489	3 $\frac{3}{4}$ miles east-southeast	John Riley	do.	-	540	8	-	-
490	do.	O. J. Horsman	Perry Downs	1915	530	8	-	-
491	4 miles east-southeast	G. H. Cline	W. Zimmerman	1928	560	10	-	-
492	4 $\frac{1}{4}$ miles east-southeast	Kurth	-	1929	528	12	-	-
493	do.	Kizer et al	W. Zimmerman	1929	530	6	-	-
494	do.	Robert Blumer	O. M. Boone	1929	515	6	-	-
495	4 $\frac{1}{2}$ miles east-southeast	Kurth	W. Zimmerman	1929	630	8	-	-
496	do.	do.	do.	1929	630	10	-	-
497	do.	do.	do.	1929	660	10	-	-
498	4 $\frac{3}{4}$ miles east-southeast	Robert Blumer	O. M. Boone	1929	535	6- 5/8	-	-
499	5 miles east-southeast	do.	Perry Downs	1910	640	6- 5/8	-	-
500	do.	Mrs. M. E. Myers	W. Zimmerman	1927	485	5- 3/16	-	-
501	do.	Robert Blumer	-	1929	60	3	-	-
502	do.	do.	W. Zimmerman	1929	515	6- 5/8	-	-
503	5 $\frac{1}{2}$ miles east-southeast	J. F. Dawson	Chester Downs	1925	607	10	572	35
504	do.	N. B. Rupp	do.	1920	488	8	-	-
505	6 miles east-southeast	do.	Porter & Rupp	1928	621	6 $\frac{1}{4}$	578	43+
506	6 $\frac{1}{4}$ miles east-southeast	Nicolas Narvaez	-	1912	500+	6- 5/8	-	-
507	6 miles east-southeast	Elmer Rupp	Elmer Rupp	1924	499	8	469	30

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
488	-	-	W	D,S	170	150	45	
489	11.6	Dec. 21, 1932	W	D,S,I	160	160	30	
490	12.6	Dec. 10, 1932	W	D,S,I	150	140	60	Irrigates 10 acres of citrus fruits.
491	10.0	Dec. 21, 1932	W	D,S,I	170	150	40	
492	18.1	do.	W	D,S,I	380	400	30	Irrigates 5 acres of citrus fruits.
493	8.3	do.	W	D,S,I	170	140	35	Casing: 60 feet of 6-inch and 4 $\frac{1}{4}$ -inch
494	7.5	do.	W	D,S,I	160	140	45	Casing: to bottom. 60 feet of 6-inch and 4 $\frac{1}{4}$ -inch to
495	6.6	Dec. 9, 1932	-	N	160	-	-	bottom.
496	10.5	do.	W	D,S,I	150	130	60	Irrigates 5 acres of citrus fruits.
497	-	-	W	D,S,I	150	130	45	Irrigates 10 acres of citrus fruits.
498	8.2	Dec. 21, 1932	H	D,S	150	130	45	
499	-	-	W	D,S,I	140	130	60	Irrigates 2 acres of citrus fruits.
500	-	-	A,G,W	D,S,I	140	140	30	Irrigates 11 acres of citrus fruits.
501	-	-	-	N	-	-	-	Shallow salt water well.
502	18.4	Dec. 21, 1932	W	D,S,I	150	140	25	Casing: 60 feet of 6-5/8-inches and 4 $\frac{1}{4}$ -inch to bottom.
503	6.5	July 29, 1933	W	D,S,I	150	150	40	Casing: 99 feet of 10-inch, 477 feet of 5-3/16-inch and 60 feet of 4 $\frac{1}{4}$ -inch with bottom 40 feet per-
504	21.8	Oct. 21, 1932	A,G,25	D,S,I	135	130	50	Irrigates perforated. 40 acres of citrus fruits and 50 acres of truck. Casing: 80 feet of 8-inch and 6-inch to bottom
505	20.0	do.	-	N	-	-	-	Casing: 578 feet of 6 $\frac{1}{4}$ -inch set at top
506	19.0	Feb. 1, 1933	W	D,S	150	130	-	of sand.
507	28.5	Dec. 8, 1932	W	D,S,I	130	140	60	Irrigates 2 acres of citrus fruits. Casing: 60 feet of 8-inch, 5-3/16-inch to bottom with last 30 feet perforated.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
508	6½ miles east-southeast	E. Alaniz	Chester Downs	-	500+	8	-	-
551	8 miles east	D. J. Sullivan	Schrock & Rupp	1927	565	4¼	-	-
552	8¼ miles east	do.	Porter & Rupp	1930	640	5- 3/16	640	-
553	9¼ miles east	do.	Elmer Rupp	1932	519	4¼	519	-
554	8½ miles east	do.	Perry Downs	Old	600	4¼	-	-
555	6¼ miles east	do.	Schrock & Rupp	1928	-	4¼	-	-
556	8 miles east	do.	J. W. Brown	1916	600+	5- 3/16	-	-
557	8½ miles east-southeast	do.	Porter & Rupp	1928	919	4¼	649	164
558	7½ miles east-southeast	D. J. Sullivan	Porter & Rupp	1932	540	5- 3/16	-	-
559	8½ miles east-southeast	do.	Oil Company	Old	630	5- 3/16	-	-
560	do.	do.	do.	Old	630	5- 3/16	-	-
561	9½ miles east-southeast	do.	Porter & Rupp	1930	671	5- 3/16	626	45
562	8 miles southeast	do.	Perry Downs	Old	1,007	5- 3/16	-	-
563	do.	do.	Porter & Rupp	1930	540	5- 3/16	-	-
564	10 miles southeast	do.	do.	1930	580	5- 3/16	579	-
565	10½ miles southeast	do.	Hubble	1905	625	8	-	-
566	11 miles southeast	do.	-	-	-	5- 3/16	-	-
567	10 miles southeast	do.	-	-	-	5- 3/16	-	-
568	11 miles south-southeast	do.	-	1908	-	7	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulphate d/	
508	13.3	Dec. 8, 1932	W	D,S,I	130	150	60	
551	1.0	Mar. 22, 1933	W	S	160	180	-	Cuchia well.
552	10.0	do.	W	S	130	200	-	New Martes well. Casing: 640 feet of 5-3/16-inch set at top of second sand. Old Martes well 700+ feet deep, now
553	23.4	do.	W	S	130	130	-	abandoned.
554	12.0	do.	W	D,S	140	160	-	Tule Pens well.
555	20.0	do.	W	D,S	140	160	-	Rancho Nuevo well.
556	Flows	do.	F	S	180	230	-	Sulphur well. Temperature 85° F.
557	3.7	do.	W	S	110	130	-	Rodero well. Casing: 347 feet of 4 1/4-inch swedged to 510 feet of 3 1/2-inch. Well produced bitter sulphur water. Set packer at 700 feet and shot casing
558	9.5	Mar. 23, 1933	W	S	95	160	-	Pilon well. above.
559	10.5	do.	W	S	100	180	-	Tule Twins, two wells, one not used. Reported flow prior to 1907 of, 300 and 400 gallons a minute. f/
560	11.0	do.	-	N	-	-	-	
561	3.7	do.	W	S	100	130	-	Marana well. Casing: 626 feet of 5-3/16-inch set at
562	22.8	Mar. 22, 1933	W	D,S	120	170	-	Mari- top of sand. posa Ranch well.
563	20.0	do.	W	D,S	100	180	-	Do.
564	12.7	Mar. 23, 1933	W	S	120	160	-	Toro well. Casing: 579 feet of 5-3/16-inch set at top of
565	13.6	do.	W	S	110	120	-	Cara- water sand. mayola well.
566	8.8	do.	W	S	90	150	-	Monterey well.
567	14.1	do.	W	S	190	200	-	Sorio well.
568	10.7	do.	W	S	200	260	-	Cabras Negras well.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Falfurrias	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
569	13 miles southeast	D. J. Sullivan	J. W. Brown	1908	700+	4 $\frac{1}{4}$	-	-
570	12 $\frac{1}{2}$ miles southeast	do.	-	-	-	4 $\frac{1}{4}$	-	-
571	13 miles southeast	do.	Porter & Rupp	1931	587	5- 3/16	539	48
601	9 miles east-southeast	L. L. Chamberlain	Chester Downs	1913	453	5- 3/16	-	-
602	9 $\frac{1}{4}$ miles east-southeast	W. J. Chamberlain	Porter & Rupp	1925	613	5- 3/16	573	40
603	9 $\frac{1}{2}$ miles east-southeast	-	Stokes	-	700+	4 $\frac{1}{2}$	-	-
604	10 $\frac{1}{2}$ miles southeast	Mrs. J. F. Dawson	Zimmerman Bros.	1909	697	5- 3/16	-	-
611	8 $\frac{1}{2}$ miles south	Scott & Hopper	-	-	600+	4 $\frac{1}{2}$	-	-
612	9 $\frac{1}{2}$ miles south	J. W. Freeman	Rupp	1925	465	4 $\frac{1}{2}$	-	-
e/613	8 $\frac{1}{2}$ miles south	J. A. Brooks	Perry Downs	1907	783	5- 3/16	688	95
614	8 miles south-southeast	J. D. Cage, Estate	Chester Downs	1918	760	5- 3/16	-	-
615	6 $\frac{1}{2}$ miles south-southeast	Wright Estate	-	Old	-	4 $\frac{1}{4}$	-	-
616	7 $\frac{1}{2}$ miles south-southeast	C. F. Wagenschein	-	-	25	12	-	-
617	8 $\frac{1}{4}$ miles southeast	do.	-	-	46	4 $\frac{1}{2}$	-	-
618	7 miles southeast	Margarita Perez	Porter & Rupp	1925	598	6	598	-
631	10 miles south	R. J. Kleberg	-	-	640+	6	-	-
632	12 miles south	C. F. Wagenschein	Porter & Rupp	1931	459	4 $\frac{1}{2}$	419	40
633	13 $\frac{1}{2}$ miles south	W. T. Eldredge	Chester Downs	1917	480	4 $\frac{1}{4}$	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
569	2.2	Mar. 23, 1933	W	S	3,000	-	-	Pila well.
570	9.5	do.	W	S	160	180	-	Pita well.
571	6.2	do.	W	S	110	120	-	Novia well. Casing: 560 feet of 5-3/16-inch wrought iron.
601	22.5	Feb. 1, 1933	W	D,S	130	120	-	
602	7.5	do.	W	D,S,I	140	140	-	Irrigates 1½ acres of vegetables. Casing: 573 feet of 5-3/16-inch set at top of water sand.
603	-	-	W	S	120	140	-	
604	16.5	Mar. 22, 1933	W	D,S	280	250	-	Casing: 600 feet of 5-3/16-inch, 4¼-inch to bottom with bottom 60 feet perforated.
611	Flows	June 4, 1933	F	S	220	270	-	
612	14.0	Jan. 17, 1933	W	D,S	180	190	-	
613	Flows	Feb. 27, 1933	F,W	D,S	190	250	150	Reported flow of 250 gallons a minute when completed. Would rise 20 feet above ground level
614	Flows	do.	F,W	S	140	170	50	Number in casing. 9 well. Old number 9 well 460 feet deep, now abandoned.
615	-	-	W	S	9,500	500	-	
616	11.2	June 1, 1933	W	S	1,000	1,600	-	
617	-	-	W	S	1,000	500	-	
618	22.5	June 1, 1933	W	D,S	120	200	-	Casing: 35 feet of 6-inch swedged to 563 feet of 4½-inch.
631	-	-	W	S	210	200	-	
632	18.5	May 5, 1933	W	D,S	250	270	-	Casing: 419 feet of 4½-inch set at top
633	25.0	Jan. 24, 1933	W	S	470	490	-	Trociano of sand. or Bordo Trosado well.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
651	20 miles northwest	W. W. Jones	-	-	90	5- 3/16	-	-
652	18 miles northwest	do.	-	-	100+	5- 3/16	-	-
653	19 miles northwest	do.	-	-	375	5- 3/16	-	-
654	17 miles west-northwest	do.	-	-	150+	5- 3/16	-	-
655	do.	do.	-	-	150+	5- 3/16	-	-
656	16½ miles west-northwest	do.	-	-	150+	5- 3/16	-	-
657	do.	do.	-	-	150+	5- 3/16	-	-
658	16½ miles northwest	do.	-	-	300+	4¼	-	-
659	14½ miles northwest	do.	-	-	370	4¼	-	-
660	14½ miles west-northwest	do.	-	-	370	4½	-	-
661	12½ miles west-northwest	do.	-	-	150+	4¼	-	-
662	14½ miles west-northwest	do.	-	1929	373	4¼	364	9
663	14½ miles northwest	do.	-	-	150+	6- 5/8	-	-
664	13 miles northwest	do.	Cecil Albright	-	370	12	-	-
665	11 miles west-northwest	do.	-	-	150+	5- 3/16	-	-
666	13 miles west	do.	-	-	150+	5- 3/16	-	-
667	do.	do.	-	1931	158	5- 3/16	150	8
668	12 miles west	A. C. Jones	-	1921	150+	5- 3/16	-	-
669	16 miles west	do.	-	-	700	5- 3/16	-	-
670	13 miles west	do.	-	-	150+	5- 3/16	-	-
671	11 miles west	do.	-	-	150+	5- 3/16	-	-
672	do.	do.	-	1931	147	5- 3/16	-	-
701	12 miles northwest	Scott & Hopper	Chester Downs	1912	600+	5- 3/16	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power <u>a/</u>	Use of water <u>b/</u>	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness <u>c/</u>	Sul-phate <u>d/</u>	
651	35	Mar. 4, 1933	W	S	1,400	1,400	-	Capoule well.
652	-	-	W	S	1,300	800	-	Perdido well.
653	Flows	May 18, 1933	F,W	S	700	1,100	300	Lindero well. Temperature 80° F. Estimated yield, 60 gallons a minute.
654	40.0	do.	W	S	700	700	-	North Brazil well.
655	39.5	do.	W	S	700	800	-	South Brazil well.
656	-	-	W	S	-	-	-	North Cotulla well.
657	37.0	May 18, 1933	W	S	2,500	3,000	-	South Cotulla well.
658	25.1	do.	W	S	600	600	200	Agua Verde well.
659	Flows	do.	F	S	700	700	300	Tres Puertas well. Temperature 81° F. Yield, 34 gallons a minute.
660	Flows	do.	F	S	550	550	250	Esmeralda well. Temperature 81° F. Yield, 6 gallons a minute.
661	60.5	do.	W	S	500	420	-	Rancho Nuevo well.
662	Flows	do.	F	S	600	700	200	Mil Pesos well. Temperature 82° F. Yield, 155 gallons a minute.
663	52.3	do.	W	S	400	250	-	Colcha well.
664	Flows	do.	W	S	700	900	300	San Martin well. Temperature 81° F. Yield, 60 gallons a minute.
665	88.0	do.	W	S	900	850	-	Chapote well.
666	25.2	do.	W	S	1,700	800	-	Gonzalonia Number 1 well.
667	27.5	do.	-	N	1,500	-	-	Gonzalonia Number 2 well.
668	70.0	do.	W	D,S	75	250	-	Alto Colorado (Headquarters) well.
669	Flows	do.	F	S	360	180	300	Blanca well. Temperature 83° F.
670	54.0	do.	W	S	600	240	-	Pita (Mestena) well.
671	40.2	do.	W	S	220	370	-	North Realitos well.
672	36.0	do.	W	S	250	380	-	South Realitos well.
701	-	-	W	S	110	180	-	Morales well.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
702	11 miles northwest	Scott & Hopper	-	-	165	5- 3/16	-	-
703	10 $\frac{1}{2}$ miles northwest	do.	-	-	108	5- 3/16	-	-
704	9 miles northwest	do.	-	-	650+	5- 3/16	-	-
705	7 miles northwest	do.	-	-	730	5- 3/16	560 587	20 13
706	7 $\frac{1}{2}$ miles northwest	do.	-	1931	93	5- 3/16	-	-
707	5 $\frac{1}{2}$ miles northwest	do.	-	-	600+	5- 3/16	-	-
708	4 $\frac{1}{2}$ miles northwest	do.	-	-	602	5- 3/16	390 505	21 20
709	4 $\frac{1}{2}$ miles north	do.	-	-	172	4 $\frac{1}{4}$	581	21
710	3 $\frac{3}{4}$ miles northwest	do.	-	-	150	4 $\frac{1}{4}$	-	-
711	4 miles west-northwest	do.	-	-	165	5- 3/16	-	-
712	2 $\frac{1}{2}$ miles west-northwest	do.	-	-	1,100+	4 $\frac{1}{4}$	500+	--
713	1 $\frac{1}{2}$ miles northwest	do.	-	-	40	4 $\frac{1}{4}$	-	-
714	$\frac{3}{4}$ mile northwest	do.	Chester Downs	1927	346	10	316	40
715	At Rachal	do.	Porter & Rupp	1925	365	8	335	30
751	11 $\frac{1}{2}$ miles north	R. J. Kleberg	Chester Downs	1917	840	5- 3/16	-	-
752	12 miles north	do.	do.	1916	517	5- 3/16	480	34
753	10 miles north	do.	do.	1926	770	5- 3/16	-	-
754	9 miles north-northeast	do.	do.	1914	684	5- 3/16	640	44
755	7 miles north	do.	do.	Old	-	5- 3/16	-	-
756	4 miles north	do.	do.	1924	450	5- 3/16	-	-
757	3 $\frac{1}{2}$ miles north	do.	do.	1924	500+	4 $\frac{1}{4}$	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness c/	Sul-phate d/	
702	-	-	W	S	-	-	-	San Pedro well.
703	-	-	W	S	1,300	500	-	Calichosa well.
704	-	-	W	S	400	600	-	Cuatralbo well.
705	-	-	W	S	350	400	-	Tepeguaje well. Casing; 458 feet of 5-3/16-inch, 154 feet of 4 $\frac{1}{4}$ -inch and 127 feet of 3 $\frac{1}{2}$ -inch.
706	70	Apr. 5, 1933	W	S	2,000	3,000	-	Alto Bonito well.
707	-	-	W	S	290	340	-	Blanca well.
708	50	Apr. 5, 1933	W	S	330	310	-	Chapena well.
709	48	do.	W	S	1,100	800	-	Narvaez well.
710	-	-	W	S	600	300	-	Juan Garza well.
711	-	-	W	S	1,500	1,900	-	Ramon well.
712	28	Apr. 5, 1933	W	S	250	200	-	Llano well.
713	39.2	-	W	S	800	500	-	Nogales well.
714	22.5	Nov. 29, 1932	W	S	290	240	75	Casing; 100 feet of 8-inch and 5-3/16-inch to bottom.
715	26.5	Jan. 24, 1933	W	D,S	270	250	75	Casing; 58 feet of 8-inch and 283 feet of 5-3/16-inch with
751	12.0	Feb. 28, 1933	W	S	190	190	50	Number 6 foot lap. 8 well.
752	5.5	do.	W	S	230	200	50	Barrosa well. Reported flow of 3 gallons a minute in
753	-	-	W	S	1,000	700	50	Sufrosa Jan. 1916. well. Highly sulphuretted water.
754	12.8	Feb. 28, 1933	W	S	230	190	150	Los Muertos well. Casing; 532 feet of 5-3/16-inch, 4 $\frac{1}{2}$ -inch, to bottom with 60 feet per-
755	33.5	Jan. 24, 1933	W	S	290	330	-	Escondido perforated. well.
756	-	-	W	D,S	350	290	-	Encino Ranch head-quarters.
757	-	-	W	D,S	210	230	60	Encino Mejicano well.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
758	5½ miles northeast	R. J. Kleberg	-	Old	-	5- 3/16	-	-
759	6 miles north-northeast	do.	-	Old	-	8	-	-
760	12 miles north-northeast	do.	Chester Downs	1928	829	5- 3/16	798	31
761	11 miles northeast	do.	Perry Downs	1910	648	5- 3/16	590	-
762	8½ miles northeast	do.	Chester Downs	1918	817	5- 3/16	734	83
763	10 miles northeast	do.	-	-	-	5- 3/16	-	-
764	7½ miles northeast	do.	Downing	1908	537	5- 3/16	476	14
765	5 miles northeast	do.	-	-	52	5- 3/16	-	-
767	5 miles east-northeast	do.	Chester Downs	-	820	5- 3/16	750	70
766	4½ miles northeast	do.	-	-	35	5- 3/16	-	-
3/768	7½ miles east-northeast	do.	Chester Downs	1921	782	5- 3/16	660 730	50 52
769	5½ miles east	do.	-	-	782	5- 3/16	-	-
770	5 miles east-southeast	do.	Chester Downs	1916	596	5- 3/16	397 535 575	43 20 21

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulphate d/	
758	21.8	Feb. 28, 1933	W	S	320	320	50	Lucero well.
759	-	-	W	S	460	480	100	Huesos well.
760	4.5	Feb. 28, 1933	W	S	290	550	1,200	Avispas well. Casing: 200 feet of 5-3/16-inch swedged to 4 1/4-inch to bottom Drilled to 1093 feet but plugged and shot
761	Flows	do.	F	S	290	290	160	Num-1 at 829 feet. ber 1 well. Temperature 83° F. Original depth 484 feet with 463 feet of 5-3/16-inch casing, present depth 648 feet with 200 feet of 4 1/4-inch casing added with bottom 60 feet perforated. Yield, 5 gallons a
762	Flows	do.	F	S	230	200	150	Casing; 505 minute. feet of 5-3/16-inch and 313 feet of 4 1/4-inch. Tacon (Talón) well. Temperature 84° F. Yield, 8 gallons a minute.
763	-	-	W	S	1,100	800	400	Leoncitas (Hodges) well. Temperature
764	-	-	W	S	290	180	250	Vivoras well. 75° F. Strongly sulphur- etted water. Temperature 83° F.
765	14.3	Mar. 2, 1933	-	N	75	150	-	
767	17.6	do.	W	S	800	600	400	Las Flores well. Temperature 77° F. Casing; 545 feet of 5-3/16-inch and 292 feet of 4 1/4-inch.
766	10.7	do.	F	N	80	210	-	
768	Flows	Mar. 1, 1933	W	S	250	160	150	Santo Tomas (Lagunas) well. Temperature 84° F. Casing; 580 feet of 5-3/16-inch and 213 feet of 4 1/4-inch with 80 feet perforated. Yield, 17 gallons a
769	4.5	do.	W	S	350	280	100	minute.
770	6.2	Mar. 2, 1933	W	S	240	180	80	Posita well. Temperature 82° F. Casing; 382 feet of 5-3/16-inch and 227 feet of 4 1/4-inch with 13 foot lap.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
771	7½ miles east	R. J. Kleberg	O. S. Caldwell	1906	630	5- 3/16	-	-
772	8½ miles east-southeast	do.	do.	1906	770	5- 3/16	-	-
801	11½ miles northwest	Sylvestre Rodriguez	Calderon Bros	1915	68	5- 3/16	54	14
802	11 miles northwest	Ireneo Lopez	do.	-	85	5- 3/16	-	-
803	10½ miles northwest	Calderon Bros.	do.	1932	83	8	-	-
804	do.	do.	do.	1919	110	-	-	-
811	16 miles west	Garcia Ramos	-	-	350+	4½	-	-
812	do.	J. G. Garcia	Calderon Bros.	1925	107	5- 3/16	-	-
813	15 miles west	Garcia Ramos	do.	1923	123	5- 3/16	-	-
814	do.	Garcia Ramos No. 2	Cecil Albright	1929	2,002	-	314	38
815	do.	Garcia Ramos	do.	1929	354	6	332	22
e/821	12 miles west-northwest	Garcia Ramos	-	-	83	4½	-	-
822	do.	do.	-	Old	97	96	-	-
826	10 miles west-northwest	Adolfo Garcia No. 1	Cecil Albright	-	1,600	-	-	-
827	do.	do.	do.	-	238	-	-	-
828	9½ miles west-northwest	Adolfo Garcia No. 3A	Chester Downs, Jr.	1932	258	8	-	-
829	do.	do.	Cecil Albright	1932	1,165	9	-	-
830	9¼ miles west-northwest	Adolfo Garcia	O. M. Boone	1926	550	5- 3/16	-	-
831	do.	Adolfo Garcia No. 1	Cecil Albright	1932	573	-	-	-
832	do.	Adolfo Garcia	Calderon Bros.	1910	120	8	-	-
833	do.	B. G. de Garcia	do.	1924	130+	5- 3/16	150	30
834	8½ miles west-northwest	do.	Chester Downs	1913	350	5- 3/16	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
771	Flows	Mar. 1, 1933	F	S	1,050	550	100	Santa Quiteria wells. Temperature 84° F. Two wells here. Yield 23 gallons a minute.
772	Flows	do.	F	S	230	130	130	Estimated yield, 20 gallons a minute.
801	-	-	H	D,S	180	370	-	
802	58.4	Mar. 13, 1933	W	D,S	2,000	1,600	-	
803	-	-	H	D,S	1,000	1,600	-	No casing used.
804	-	-	W	D,S	2,000	1,500	-	
811	30.0	Mar. 17, 1933	W	S	3,000	2,000	600	Salado well.
812	26.5	do.	W	S	240	490	-	Mostena well.
813	24.7	do.	W	S	420	410	60	
814	Flows	-	-	N	700	550	80	Oil test. Has small flow of water.
815	Flows	Mar. 17, 1933	F	S	700	700	70	Cinco de Mayo well. Temperature 81½° F. Casing; 150 feet of 6-inch. Yield, 60 gallons a minute.
821	65	May 8, 1933	W	D,S	-	-	-	Rancho Nuevo well. Casing; 80 feet of
822	57.0	Sept. 20, 1933	W	D,S	198	180	20	Rancho 4¼ -inch. Nuevo dug well. Temperature 73½° F. Dug to 90 feet with 7 feet drilled in
826	-	-	-	-	600	-	-	Oil test. bottom.
827	66.7	Mar. 17, 1933	-	N	550	500	100	Water well for drilling oil test.
828	93.7	do.	J,G,1½	D,S	600	550	50	Water well for drilling oil test.
829	-	-	-	-	-	-	-	Gas well.
830	97.8	Mar. 17, 1933	W	D,S	900	900	150	Encantada Ranch well.
831	-	-	-	-	-	-	-	Oil test, no production.
832	69.5	Mar. 17, 1933	W	D,S	2,500	2,700	200	Encantada Vieja well.
833	83.5	do.	W	S	2,000	2,500	50	Yesquitas well.
834	-	-	W	S	-	-	-	Tacubaya ranch west well.

Records of wells in Brooks County, Texas--Continued

c.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
835	8 $\frac{1}{2}$ miles west-northwest	B. G. de Garcia	Cecil Albright	1930	365	6 $\frac{3}{4}$	350	15+
836	10 $\frac{1}{2}$ miles west-northwest	Garcia No. 1B	do.	1930	294	6- 5/8	244	50
837	do.	do.	do.	1930	1,169	8 $\frac{1}{2}$	-	-
838	10 miles west	B. G. de Garcia	Calderon Bros.	1905	160	6	-	-
839	do.	do.	do.	1908	100+	5- 3/16	-	-
840	9 miles west	J. G. Garcia	Dickens	1905	175	5- 3/16	-	-
841	8 miles west	E. Garcia	Calderon Bros.	1930	180	5- 3/16	-	-
842	8 $\frac{1}{2}$ miles west-southwest	J. G. Garcia	Dickens	1907	110	5- 3/16	-	-
843	10 miles west-northwest	Garcia No. 2B	Cecil Albright	1931	960	-	-	-
844	do.	do.	do.	1931	306	5- 3/16	292	14
845	11 $\frac{3}{4}$ miles northwest	Jones Estate	Mestena Oil Co.	1937	361	8- 5/8	-	-
846	11 $\frac{1}{2}$ miles northwest	do.	do.	1925	120	5- 3/16	-	-
851	8 $\frac{1}{2}$ miles west-northwest	Francisco Perez	Calderon Bros.	1925	120	5- 3/16	-	-
852	7 $\frac{1}{2}$ miles west-northwest	Amado Perez	do.	1924	116	5- 3/16	-	-
853	do.	Roberto Perez	do.	1926	125	5- 3/16	-	-
854	8 miles west-northwest	Domingo Chavano	do.	1925	167	-	-	-
855	7 $\frac{1}{2}$ miles west	Pablo Perez	do.	1924	165	5- 3/16	-	-
856	7 miles west-northwest	Longoria Estate	do.	1918	140	5- 3/16	-	-
857	do.	Andres Longoria	do.	1924	130	5- 3/16	-	-
858	do.	Felicita L. Lopez	do.	1925	150	5- 3/16	-	-
859	6 miles west-northwest	J. P. Ruelas	M. Pena	1907	100+	5- 3/16	-	-
860	7 miles west-northwest	J. G. Garcia	Calderon Bros.	1923	116	5- 3/16	-	-
861	6 $\frac{1}{2}$ miles west-northwest	Mateo Longoria	do.	1924	140	5- 3/16	-	-
862	do.	Simon Trevino, Jr.	do.	1928	120+	5- 3/16	-	-

All wells are drilled unless otherwise stated in remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chloride	Hardness c/	Sulfate d/	
835	-	-	W	D,S	900	700	80	Tacubaya ranch, east well.
836	-	-	-	N	-	-	-	Water well for drilling oil test.
837	-	-	-	-	-	-	-	Gas well.
838	96.2	Mar. 17, 1933	W	D,S	650	750	100	Ranchito well. Casing; 20 feet of
839	54.7	do.	W	S	110	330	15	Llano well. 6-inch.
840	55.3	do.	W	D,S	250	450	30	Realito well. Casing; 20 feet of 5-3/16-inch.
841	80.9	Mar. 16, 1933	W	D,S	1,000	1,000	200	Mirador well. Casing; 20 feet of 5-3/16-inch.
842	37.2	do.	W	S	200	360	25	Cinco de Mayo well. Casing; 20 feet of
843	-	-	-	-	-	-	-	Oil 5-3/16-inch. test.
844	-	-	-	N	-	-	-	Water well for drilling oil test. Casing; 38 feet of
845	40.9	Apr. 4, 1940	N	N	-	-	-	Casing; 290 feet of 8-5/8-inch, 71 feet of 7-inch perforated.
846	-	-	A,G	D	-	-	-	Camp well. rated.
851	-	-	W	D,S	1,500	2,500	-	
852	-	-	W	D,S	600	1,000	-	
853	-	-	W	D,S	25	430	-	Small yield.
854	-	-	W	D,S	1,700	2,000	-	
855	-	-	W	D,S	1,300	1,600	-	
856	70.6	Mar. 14, 1933	W	S	300	500	-	
857	85.0	Mar. 13, 1933	W	S	320	600	30	
858	87.0	do.	W	D,S	1,500	1,600	-	
859	-	-	W	S	900	1,000	150	
860	-	-	H	D,S	30	400	-	Small yield.
861	83.0	Mar. 14, 1933	H	S	2,500	2,400	-	
862	-	-	H	S	2,000	2,500	-	

Records of wells in Brooks County, Texas--Continued

No.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
863	6½ miles west-northwest	P. Mangel	Calderon Bros.	1921	155	5- 3/16	-	-
864	6 miles west	Jacoba Villareal	Enero Abrigo	1924	146	5- 3/16	-	-
865	5 miles west	Florencio Rodriquez	Calderon Bros.	1924	130	5- 3/16	-	-
866	4½ miles west	Celso V. Ramirez	do.	1929	115	5- 3/16	-	-
867	4½ miles west-northwest	do.	Marcus Pena	1905	105	5- 3/16	-	-
868	do.	do.	do.	1907	110	5- 3/16	-	-
869	7 miles west	Jose M. Martinez	G. Abrigo	1923	125	5- 3/16	-	-
870	7½ miles west	Juan Perez	G. Hernandez	1930	97	5- 3/16	-	-
871	8 miles west	Vivian de Luna	Calderon Bros.	1925	100	5- 3/16	-	-
872	do.	Victor Martinez	G. Abrigo	1919	70	5- 3/16	-	-
873	7¾ miles west	Vivian de Luna	do.	1920	70+	-	-	-
874	do.	Matilde Martinez	-	Old	80	96	-	-
875	7 miles west	Emilie Escalante	Calderon Bros.	1924	117	5- 3/16	-	-
876	6½ miles west	Matilde Martinez	do.	1907	125	5- 3/16	-	-
877	do.	Ruperto Perez	do.	1924	100	4½	-	-
878	do.	Vivian Garcia	do.	1924	101	5- 3/16	-	-
879	do.	E. G. de Esslinger	G. Hernandez	-	70	8	-	-
880	6½ miles west-southwest	Zaragosa Solis	Calderon Bros.	1908	70	5- 3/16	-	-
881	7 miles west-southwest	Juan Perez	G. Hernandez	1933	71	5- 3/16	-	-
882	5 miles west	Enrique Villareal	Calderon Bros.	1926	138	5- 3/16	-	-
883	4½ miles west	Longoria Estate	M. Martinez	1914	300	5- 3/16	-	-
884	do.	Eugenio Longoria	Calderon Bros	1924	150	5- 3/16	-	-
885	4 miles west	Juan Longoria	do.	1928	100	5- 3/16	-	-
886	2 miles west	Longoria Estate	Enero Abrigo	-	150+	5- 3/16	-	-
911	3½ miles northwest	P. Mangel, Jr.	Rafael Pena	1909	100	5- 3/16	-	-
912	3 miles north-northwest	G. Abrigo	Calderon Bros.	1931	100+	6	-	-

All wells are drilled unless otherwise stated in Remarks

No.	Water level		Method of lift and amount of power a/	Use of water b/	Field tests			Remarks
	Depth below top of casing	Date of measurement			Chlo- ride	Hard- ness c/	Sul- phate d/	
863	90.0	Mar. 14, 1933	W	D,S	1,400	1,400	-	
864	-	-	W	D,S	1,800	1,700	-	
865	-	-	H	D,S	2,000 1,940	2,300	-	
866	72.3	Mar. 14, 1933	H	D,S	2,500	2,500	-	
867	-	-	W	D,S	1,000	1,000	-	
868	-	-	W	D,S	1,000	1,200	-	
869	-	-	W,H	D,S	900	1,400	-	
870	74.6	Mar. 16, 1933	W	D,S	500	450	40	
871	55.6	do.	W	D,S	400	450	70	
872	44.5	do.	W	D,S	1,500 1,260	1,600	150	
873	-	-	W	D,S	270	600	-	Small yield.
874	45.0	Sept. 20, 1933	V	D,S	130 168	450	-	Dug well, 50 feet deep, drilled to 80 feet.
875	-	-	W	D,S	800	900	-	
876	-	-	W	D,S	1,000	1,200	-	
877	65.4	Mar. 16, --	H	D,S	1,200	1,200	150	
878	65	do.	H	D,S	1,200	1,100	200	
879	56.3	do.	H	D,S	700	600	120	
880	-	-	W	D,S	160	330	-	
881	-	-	K	S	160	280	-	Casing: 20 feet of 5-3/16-inch.
882	73.6	Mar. 14, 1933	H	D,S	1,500 2,330	1,200	-	Small yield.
883	-	-	W	D,S	1,900	1,500	-	Well yielded good water when first completed.
884	-	-	H	S	2,500	2,700	300	
885	-	-	H	D,S	1,500 1,775	850	-	
886	54.0	Mar. 14, 1933	W	S	-	-	-	
887	-	-	V	D,S	900	500	150	
888	48.0	Mar. 16, 1933	H	D,S	1,000	500	250	

Records of wells in Brooks County, Texas--Continued

No.	Distance from Ranchal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
913	3 $\frac{1}{2}$ miles north-northwest	F. Villareal	F. Villareal	1935	60	5- 3/16	-	-
914	do.	Estefana D. Ramirez	Calderon Bros.	1899	85	4 $\frac{1}{4}$	-	-
915	3 $\frac{1}{2}$ miles north	Enero Abrigo	Enero Abrigo	1932	75+	5- 3/16	-	-
916	do.	Pedro Benavides	do.	1906	65	4 $\frac{1}{4}$	-	-
917	3 miles north	do.	Calderon Bros.	1904	75	5- 3/16	-	-
918	3 $\frac{1}{2}$ miles north	J. G. Ramos	Enero Abrigo	1921	50	4 $\frac{1}{4}$	-	-
919	3 $\frac{1}{4}$ miles north	J. R. Canales	-	-	42	4 $\frac{1}{4}$	-	-
920	do.	P. Mangel, Jr.	P. Mangel, Jr.	1927	45	4 $\frac{1}{4}$	-	-
921	3 $\frac{1}{2}$ miles north	Nicolas Cantu	Enero Abrigo	1920	42	4 $\frac{1}{4}$	-	-
922	3 miles north	Marcela Cantu	Chester Downs	1916	377	4 $\frac{1}{4}$	-	-
923	3 $\frac{1}{2}$ miles north-northeast	Simon Bayarena	Calderon Bros.	1910	150	5- 3/16	-	-
924	3 $\frac{3}{4}$ miles north-northeast	Rafael Garza	Rafael Garza	1915	60	5- 3/16	-	-
925	4 miles north-northeast	Marciano Rodriguez	Marciano Rodriguez	1915	40	5- 3/16	-	-
926	do.	Candelario Bayarena	Candelario Bayarena	1915	40	5- 3/16	-	-
927	$\frac{1}{2}$ mile north	Marcelo Cantu	Enero Abrigo	1920	65	5- 3/16	-	-
928	2 miles east-northeast	Simon Trevino	Simon Trevino	1928	46	12	-	-
929	2 $\frac{1}{2}$ miles east	Simon Trevino, Jr.	Calderon Bros.	1928	150+	5- 3/16	-	-
930	2 $\frac{1}{2}$ miles east-southeast	Antonio Zarate	Enero Abrigo	1915	50	5- 3/16	-	-
951	12 miles west	Allen Land & Cattle Co.	-	-	100+	5- 3/16	-	-
952	10 miles west-southwest	do.	-	-	120	4 $\frac{1}{4}$	-	-
953	12 miles west-southwest	do.	-	-	450	5- 3/16	-	-
954	16 $\frac{1}{2}$ miles west-southwest	do.	-	-	350	5- 3/16	-	-
955	15 $\frac{1}{2}$ miles west-southwest	do.	-	-	60	5- 3/16	-	-
956	13 $\frac{1}{2}$ miles west-southwest	do.	-	-	120	6- 5/8	-	-
957	12 miles southwest	do.	-	-	87	4 $\frac{1}{4}$	-	-
958	16 miles west-southwest	Allen No. 3	Milam Drilling Co.	-	1,508	-	-	-
959	14 miles west-southwest	Allen No. A-1	do.	1929	1,509	-	-	-

Records of wells in Brooks County, Texas--Continued

No.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
960	14 miles west-southwest	Allen No. 1	Milam Drilling Co.	1929	1,395	-	-	-
961	11½ miles west-southwest	Allen Nos. 8 & 9	do.	1929	3,007	-	-	-
962	15½ miles west-southwest	Allen No. 2	do.	1929	1,501	-	-	-
963	14½ miles west-southwest	Allen Nos. 5 & 10	do.	1929	3,006	-	-	-
964	12 miles west-southwest	Allen No. 7	do.	1929	1,252	-	-	-
965	16½ miles west-southwest	Allen No. 4	do.	1929	1,250	-	-	-
971	9 miles west-southwest	A. C. Jones	-	-	150+	6- 5/8	-	-
972	8 miles west-southwest	do.	-	-	150+	5- 3/16	-	-
973	10 miles southwest	do.	-	-	150+	4½	-	-
974	do.	do.	-	-	150+	5- 3/16	-	-
981	5½ miles west-southwest	L. J. Lipps	-	-	1,100	10	-	-
982	6 miles southwest	do.	-	-	100+	4½	-	-
983	8 miles southwest	do.	-	-	450+	4½	-	-
984	4½ miles southwest	do.	-	-	100+	4½	-	-
985	3½ miles southwest	do.	-	-	500+	5- 3/16	-	-
986	4 miles southwest	do.	-	-	150+	4½	-	-
987	3¼ miles south-southwest	do.	-	-	150+	4½	-	-
988	8 miles south-southwest	do.	-	-	650	-	-	-
991	3 miles southeast	Mrs. H. M. King, Estate	Chester Downs	1921	670	4½	-	24
992	4 miles south	do.	-	1917	510	6- 5/8	-	-
993	5 miles south	do.	-	-	-	-	-	-
994	6 miles south	do.	-	-	-	6- 5/8	-	-

All wells are drilled unless otherwise stated in Remarks

No.	Water level		Method of lift and amount of power <u>a/</u>	Use of water <u>b/</u>	Field tests			Remarks
	Depth below top of casing	Date of measurement			parts per million			
					Chlo-ride	Hard-ness <u>c/</u>	Sul-phate <u>d/</u>	
960	-	-	-	-	-	-	-	Oil test.
961	-	-	-	-	-	-	-	Do.
962	-	-	-	-	-	-	-	Do.
963	-	-	-	-	-	-	-	Do.
964	-	-	-	-	-	-	-	Do.
965	-	-	-	-	-	-	-	Do.
971	62.0	May 18, 1933	W	S	180	350	-	Rucia well.
972	-	-	W	S	240	470	-	Huila well.
973	42.0	May 18, 1933	W	S	1,600	900	-	Twin Rucia, north well.
974	41.0	do.	W	S	-	-	-	Twin Rucia, south well.
981	45	Apr. 17, 1933	W	S	360	330	-	Patito well.
982	34	do.	W	S	270	390	-	Coyotes well.
983	12	do.	W	S	260	390	-	Vargas well.
984	-	-	W	S	1,600	550	-	Corrales well.
985	-	-	W	S	230	240	-	Fonte well, formerly had a flow.
986	-	-	W	D,S	300	350	-	Coyote Ranch Headquarters well.
987	-	-	W	S	450	490	-	Paloma well.
988	Flows	Apr. 17, 1933	F	S	320	160	-	Tordias well. Temperature 85° F. Yields 25 gallons a minute.
991	-	-	W	S	300	80	200	Magueyes well. Casing: 521 feet of 4 $\frac{1}{2}$ -inch, 159 feet of 3 $\frac{1}{2}$ -inch with 38 feet perforated.
992	2.0	Apr. 21, 1933	W	S	260	110	200	Blanca well. Casing: 23 feet of 6-5/8-inch, 441 feet of 4-1/4-inch and 62 feet of 3-1/4-inch.
993	-	-	W	S	270	280	200	Well at railroad shipping pens.
994	Flows	Apr. 21, 1933	F,W	D,S	280	50	-	Huisachos Altos well. Temperature 83° F.

Records of wells in Brooks County, Texas--Continued

No.	Distance from Rachal	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Principal water-bearing bed	
							Depth to top of bed (ft.)	Thickness of bed (ft.)
995	6 miles southeast	Mrs. H. M. King, Estate	H. L. Curry	1930	810	5-3/16	-	-
996	9 miles east-southeast	do.	do.	-	1,182	5-3/16	-	-
997	8 miles southeast	do.	-	-	-	5-3/16	-	-
<u>998</u>	8 miles south-southeast	do.	Chester Downs	-	691	5-3/16	-	-

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

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

All wells are drilled unless otherwise stated in Remarks

No.	Water level		Method of lift and amount of power <u>a/</u>	Use of water <u>b/</u>	Field tests parts per million			Remarks
	Depth below top of casing	Date of measurement			Chlo-ride	Hard-ness <u>c/</u>	Sul-phate <u>d/</u>	
995	Flows	Apr. 21, 1933	F	S	400	260	500	Cuervos well. Temperature 86°F. Casing: 51 feet of 5-3/16-inch, 682 feet of 4-1/4-inch set at 700 feet and 159 feet of 3-1/4-inch set at 810 feet. Highly sulphuretted water. Yields 12 gallons a minute.
996	Flows	Mar. 1, 1933	F	S	270	480	1,600	Cuatro Esquinas well. Temperature 87°F. Casing: 95 feet of 5-3/16-inch, 877 feet of 4-1/4-inch and 56 feet of 3-1/4-inch. Yield, 5 gallons a minute.
997	Flows	Apr. 21, 1933	F	S	290	25	200	Naranjo well. Temperature 82°F. Yield, 19 gallons a minute.
998	Flows	do.	F	S	270	90	200	Alameda well. Temperature 83½°F. Casing: 85 feet of 5-3/16-inch, 565 feet of 4-1/4-inch and 81 feet of 3-1/4-inch with 22 feet perforated. Yield, 22 gallons a minute.

a/ Hardness as calcium carbonate determined by the soap method.

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

c/ For analyses see table of water analyses.

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

Table of Drillers' Logs, Brooks County, Texas

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 21</u>		
Houston Oil Company, Lasater Number 2.		
Surface sand and clay - -	3	3
Soft lime rock - - - -	4	7
Sand - - - - -	14	21
Rock - - - - -	4	25
Hard dry sand - - - -	44	69
Water sand - - - - -	39	108
Sandy clay - - - - -	66	174
Sand and gravel - - - -	18	192
Clay - - - - -	23	215
Red clay - - - - -	97	312
Sand and gravel - - - -	16	328
Clay - - - - -	22	350
Red clay - - - - -	63	418
Sand and gravel - - - -	61	479
Shale - - - - -	186	665
Sand rock - - - - -	3	668
Sticky shale - - - - -	152	820
Sandy shale - - - - -	30	850
Sticky shale - - - - -	25	875
Lime rock - - - - -	5	880
Sticky yellow shale - -	50	930
Hard shale and lime - -	63	993
Sticky shale, streaks of limel	35	1128
Sticky shale - - - - -	57	1185
Shale and lime - - - -	59	1244
Sticky shale - - - - -	30	1274
Sand - - - - -	60	1334
Hard sand - - - - -	5	1339
Sand and shale - - - -	46	1385
Sand - - - - -	11	1396
Sticky shale - - - - -	55	1451
Sand - - - - -	9	1460
Shale and shell - - - -	70	1530
Gumbo - - - - -	20	1550
Sticky shale - - - - -	114	1664
Sand - - - - -	13	1677
Sticky shale - - - - -	17	1694
Sand - - - - -	11	1705
Sticky shale - - - - -	79	1784
Sand and shale - - - -	8	1792
Sandy shale - - - - -	8	1800
Sand - - - - -	11	1811
Sticky shale - - - - -	52	1863
Sand and shale - - - -	9	1872
Sandy shale - - - - -	8	1880
Sticky shale - - - - -	52	1932
Sandy shale - - - - -	19	1951
Sticky shale - - - - -	40	1991
Sandy shale - - - - -	18	2009
Sticky shale - - - - -	14	2023
Sand - - - - -	1	2024
Lime, shale and sand - -	9	2033
Sandy lime and shale - -	7	2040

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 21--Continued</u>		
Sticky shale - - - - -	99	2139
Sand and shale - - - -	19	2158
TOTAL DEPTH - - - - -		4120

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 73</u>		
Cambrian Production Company's (Maupin) Powers Number 1.		
Sand - - - - -	30	30
Clay - - - - -	30	60
Hard sand and boulders -	130	190
Clay - - - - -	20	210
Gumbo - - - - -	85	295
Sand - - - - -	35	330
Gumbo - - - - -	108	438
Sand and boulders - - -	2	440
Gumbo - - - - -	21	461
Sand - - - - -	6	467
Gumbo - - - - -	73	540
Sand - - - - -	12	552
Water sand - - - - -	23	575
Shale and boulders - -	33	608
Gumbo - - - - -	14	622
Sand - - - - -	13	635
Gumbo - - - - -	105	740
Water sand - - - - -	5	745
Sand - - - - -	32	777
Gumbo - - - - -	68	845
Sand - - - - -	20	865
Gumbo - - - - -	41	906
Hard sand - - - - -	29	935
Shale - - - - -	13	948
Gumbo - - - - -	12	960
White rock, lime - - -	5	965
Sand - - - - -	55	1020
Hard sand - - - - -	5	1025
Gumbo - - - - -	110	1135
Sand and shale - - - -	79	1214
Gumbo - - - - -	12	1226
Sand and shale - - - -	34	1260
Gumbo - - - - -	85	1345
Sand - - - - -	20	1365
Gumbo - - - - -	60	1425
Sand - - - - -	10	1435
Gumbo - - - - -	20	1455
Shale - - - - -	15	1470
Gumbo - - - - -	10	1480
Sand - - - - -	20	1500
TOTAL DEPTH - - - - -		3169

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 175</u>		
Burro well, J. D. Cage Estate, owners.		
Surface sand and clay -	40	40
Blue clay - - - - -	20	60
(Continued on next page)		

Table of Drillers' Logs, Brooks County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 175--Continued</u>		
Rock and sand - - - - -	20	80
Blue and white clay - - - - -	30	110
White sand - - - - -	10	120
Rock - - - - -	20	140
Brown clay - - - - -	120	260
White and blue clay - - - - -	100	360
White sand - - - - -	10	370
Rock - - - - -	12	382
Red clay and boulders - - - - -	48	430
Red and blue clay - - - - -	50	480
Red clay - - - - -	90	570
Water sand - - - - -	30	600

<u>Driller's log of well 137</u>		
Tres Encinos, J. D. Cage Estate, owners.		
Soft rock and sand - - - - -	20	20
Blue clay and rock - - - - -	100	120
Red clay and rock - - - - -	140	260
White sand - - - - -	10	270
Red clay and loose boulders	150	420
Rock - - - - -	14	434
Hard rock - - - - -	22	456
White sand and boulders - - - - -	44	500
Sand and rock - - - - -	40	540
Red clay - - - - -	20	560
Water sand and loose boulders	25	585
Red clay - - - - -	30	615
Water sand		

<u>Driller's log of well 229</u>		
The Texas Company's Lasater Number 1.		
Sand - - - - -	180	180
Gumbo - - - - -	12	192
Sand and gravel - - - - -	78	270
Gypsum - - - - -	160	430

<u>Driller's log of well 230</u>		
The Texas Company, Ed. C. Lasater Number 3.		
Surface sand - - - - -	40	40
Gypsum - - - - -	75	115
Caliche - - - - -	15	130
Sand caliche - - - - -	40	170
Salt and pepper sand - - - - -	20	190
Sticky caliche - - - - -	64	254
Gypsum - - - - -	45	299
Shale - - - - -	50	349
Sand - - - - -	50	399
Gypsum - - - - -	30	429
Gumbo - - - - -	41	470
Sand - - - - -	23	493
Caliche - - - - -	11	504
Gumbo - - - - -	36	540
Sand - - - - -	25	565

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 230--Continued</u>		
Sticky caliche - - - - -	31	596
Gumbo - - - - -	20	616
Sand - - - - -	12	628
Gumbo - - - - -	83	711
Sand - - - - -	120	831
Gumbo - - - - -	10	841
Sand - - - - -	12	853
Hard sand - - - - -	2	855
Gumbo and boulders - - - - -	61	916
Sand and boulders - - - - -	28	944
Hard sand - - - - -	110	1054
Sand - - - - -	40	1094
Gumbo - - - - -	4	1098
Sand - - - - -	8	1106
Gumbo - - - - -	6	1112
Sand - - - - -	23	1135
Gumbo - - - - -	35	1170
Hard sand - - - - -	27	1197
Sandy gumbo - - - - -	137	1334
Gumbo, streaks of hard sand	30	1364
Sandy gumbo - - - - -	32	1396
Gumbo and lime - - - - -	137	1533
TOTAL DEPTH - - - - -		4878

<u>Driller's log of well 259</u>		
F. G. Sterns Oil Company, Myrick Number 1.		
Surface - - - - -	25	25
Caliche - - - - -	19	44
White clay - - - - -	23	67
Pink clay - - - - -	22	89
Clay and gravel - - - - -	11	100
White and pink clay - - - - -	53	153
Water sand - - - - -	8	161
Yellow and white clay - - - - -	89	250
Fine white sand - - - - -	22	272
White clay - - - - -	10	282
White clay and gravel - - - - -	12	294
Clay and boulders - - - - -	22	316
Red and white clay - - - - -	86	402
Mixed shale - - - - -	42	444
Red clay - - - - -	40	484
Water sand - - - - -	28	512
Red clay - - - - -	32	544
Water sand - - - - -	82	626
Clay - - - - -	97	723
Sand - - - - -	15	738
Clay - - - - -	10	748
Hard sand - - - - -	52	800
Sand - - - - -	99	899
Brown clay - - - - -	5	904
Sand - - - - -	21	925
Gypsum and sand - - - - -	5	930
Sand - - - - -	16	946

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Table of Drillers' Logs, Brooks County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 259--Continued</u>		
Broken clay, sand and gypsum	20	966
Gypsum - - - - -	43	1009
Sand and boulders - - -	18	1027
Blue clay - - - - -	9	1036
Sand and shale - - - -	17	1053
Blue gumbo - - - - -	10	1063
Sand and blue shale - -	17	1080
Blue gumbo - - - - -	5	1085
Sand and blue shale - -	22	1107
Water sand - - - - -	21	1128
Rock - - - - -	2	1130
Sand - - - - -	5	1135
Rock - - - - -	2	1137
Blue shale and sand - -	23	1160
Blue gumbo - - - - -	5	1165
Blue shale and sand - -	27	1192
Blue gumbo - - - - -	4	1196
Shale and sand - - - -	34	1230
Blue gumbo - - - - -	13	1243
Blue shale and sand - -	57	1300
White sand and shale - -	15	1315

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 280</u>		
Central Power and Light Company, owners.		
Soil - - - - -	1	1
Clay - - - - -	6	7
White sand - - - - -	12	19
Clay - - - - -	3	22
Hard caliche - - - - -	18	40
Clay - - - - -	14	54
Soft caliche - - - - -	15	69
Hard dry clay - - - - -	8	77
Soft clay - - - - -	23	100
Hard caliche - - - - -	9	109
Tough clay and lime - -	21	130
Tough clay and lime rock	74	204
Sand and soft clay - - -	12	216
Clay - - - - -	4	220
Sand (gas showing) - - -	6	226
Clay - - - - -	5	231
Sand and clay - - - - -	23	254
Soft clay - - - - -	46	300
Hard dry clay - - - - -	52	352
Rock - - - - -	2	354
Clay - - - - -	6	360
Sand and boulders - - -	20	380
Tough clay - - - - -	23	403
Sand - - - - -	9	412
Gumbo - - - - -	27	439
Sand (broken) - - - - -	6	445
Gumbo - - - - -	22	467
Tough lime - - - - -	3	470
Sand - - - - -	4	474
Hard clay - - - - -	3	477

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 280--Continued</u>		
Sand (fine brown water sand)	20	497
Hard sand and lime - -	43	540
Tough gumbo - - - - -	7	547
Hard water sand - - - -	23	570
Gumbo - - - - -	4	574
Soft water sand - - - -	17	591
Gumbo - - - - -	6	597
Sand - - - - -	27	624
Tough gumbo - - - - -	58	682
Sand (good) - - - - -	68	750
Sand rock - - - - -	1	751
Gumbo - - - - -	4	755

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 306</u>		
Mrs. Doris Taylor, owner.		
Top soil and sand - - -	15	15
Sand and caliche - - -	11	26
Sand, salt water - - -	4	30
Caliche and clay - - -	18	48
Sand, salt water - - -	13	61
Sand and caliche - - -	24	85
Rock, hard caliche and clay	6	93
Rock and caliche - - -	2	95
Clay, white - - - - -	5	100
Rock or caliche - - -	5	105
Rock and white clay - -	13	118
Rock, red and white clay	10	128
Red and white clay - -	12	140
Sand and white clay - -	5	145
White clay with sandy streaks and rocks - - - - -	10	155
White and pink clay - -	15	170
Red and white sticky clay	10	180
White and red clay - -	25	205
Sand - - - - -	10	215
Pink sandy clay with caliche	20	235
Sandy clay with black rock	20	255
Sandy gray and red clay -	10	265
Sandy gray and red clay; some caliche - - - -	25	290
Gray and red clay and caliche - - - - -	15	305
White rock and sand - -	15	320
Soft red and gray sandy clay	9	329
Soft gray sandy clay - -	31	360
Gray and red clay - - -	10	370
White clay and sand - -	10	380
Red clay and sand rock -	15	395
Sand - - - - -	15	410
Sand rock - - - - -	2	412
Soft gray clay, some yellow and red - - - - -	13	425
Gray clay, sand streaks -	5	430

(Continued on next page)

Table of Drillers' Logs, Brooks County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 306--Continued</u>		
Gray clay - - - - -	5	435
Sand - - - - -	5	440
Sand and clay - - - - -	15	455
Hard clay and rock - - - - -	5	460
Gray sandy clay with caliche	5	465
Red clay - - - - -	42	507
Sand - - - - -	10	517
Red clay with few rocks	23	540
Red and gray clay - - - - -	5	545
Red clay - - - - -	10	555
Water sand - - - - -	49	604

<u>Driller's log of well 705</u>		
Scott and Hopper, owners.		
Clay and sand - - - - -	20	20
Soft rock and sand - - - - -	100	120
Clay and rock - - - - -	80	200
White clay - - - - -	120	320
Red clay and rock - - - - -	55	375
First artesian sand - - - - -	15	390
Red clay and rock - - - - -	20	410
Hard rock - - - - -	8	418
Red clay - - - - -	42	460
Red clay and boulders - - - - -	100	560
Second artesian sand - - - - -	20	580
Rock - - - - -	7	587
Good artesian sand - - - - -	13	600
Hard rock - - - - -	8	608
White clay - - - - -	92	700
Blue clay - - - - -	30	730

<u>Driller's log of well 768</u>		
Santo Tomas well. Robt. J. Kleberg, owner.		
Rock and clay - - - - -	20	20
Sand - - - - -	5	25
Blue and white clay - - - - -	125	150
Blue clay - - - - -	150	300
Hard rock - - - - -	10	310
Red clay and boulders - - - - -	115	425
Red clay - - - - -	89	514
Hard rock - - - - -	6	520
Red clay - - - - -	30	550
Gravel - - - - -	10	560
Red clay - - - - -	20	580
Brown clay - - - - -	60	640
Rock - - - - -	20	660
Artesian sand - - - - -	50	710
Red clay - - - - -	20	730
Artesian sand - - - - -	52	782

<u>Driller's log of well 814</u>		
Amos Dinn's, Jose Garcia Ramos Number 2.		
Caliche - - - - -	123	123
Hard and soft sand - - - - -	75	198
Red clay - - - - -	18	216
Sand - - - - -	8	224
Red gumbo - - - - -	32	256
Sand - - - - -	10	266
Gumbo - - - - -	23	289
Red gumbo - - - - -	25	314

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 814--Continued</u>		
Shale, sand, gravel and water	38	352
Red gumbo - - - - -	46	398
Sandy shale - - - - -	70	468
Red gumbo - - - - -	42	510
Sticky shale - - - - -	78	588
Sand and shale - - - - -	178	766
Red clay - - - - -	74	840
Sandy shale - - - - -	78	918
Sand - - - - -	124	1042
Shale and boulders - - - - -	124	1166
Hard sandy shale - - - - -	48	1214
Blue gumbo - - - - -	196	1410
Shale and boulders - - - - -	170	1580
Blue gumbo - - - - -	176	1756
Sand - - - - -	54	1810
Brown shale - - - - -	130	1940
Sand - - - - -	30	1970
Brown shale - - - - -	32	2002

<u>Driller's log of well 829</u>		
Ed East's Garcia Number 3A.		
Surface sand - - - - -	2	2
Sand and caliche - - - - -	12	14
Caliche rock - - - - -	12	26
Rock - - - - -	4	30
Caliche and sand - - - - -	8	38
Rock - - - - -	18	56
Caliche rock - - - - -	13	69
Rock - - - - -	3	72
Rock and caliche - - - - -	12	84
Sand rock - - - - -	7	91
Sandstone - - - - -	23	114
Sand rock - - - - -	2	116
Sand and caliche - - - - -	49	165
Rock and sand - - - - -	15	180
Caliche - - - - -	10	190
Yellow clay - - - - -	10	200
Sandy clay - - - - -	30	230
Sand, clay and lime - - - - -	20	250
Clay - - - - -	12	262
Shale - - - - -	25	287
Sand - - - - -	22	309
Gravel - - - - -	26	335
Brown shale - - - - -	5	340
Shale and lime - - - - -	10	350
Sand and gravel - - - - -	10	360
Brown shale - - - - -	10	370
Sand, shale, lime and yellow clay - - - - -	2	372
Yellow clay, broken shale	7	379
Sand - - - - -	3	382
Sand and gravel - - - - -	5	387
Gumbo and shale - - - - -	133	520
Lime - - - - -	1	521
Sand and shale - - - - -	17	538

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Table of Drillers' Logs, Brooks County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 829--Continued</u>		
Blue shale - - - - -	12	550
Sand and shale - - - - -	62	612
Gumbo - - - - -	54	666
Lime, pyrites and shale - -	2	668
Shale - - - - -	2	670
Sand - - - - -	14	684
Shale and some lime - - -	6	690
Gumbo - - - - -	11	701
Sand, gumbo and lime - - -	13	714
Sand - - - - -	11	725
Sandy shale and lime - - -	32	757
Sand - - - - -	2	759
Sandy shale and lime - - -	25	784
Gumbo - - - - -	8	792
Lime, sand and shale - - -	18	810
Sand, shale streaks - - -	35	845
Sand - - - - -	10	855
Gumbo - - - - -	10	865
Sand - - - - -	10	875
Gumbo, lime streaks - - -	9	884
Gumbo - - - - -	29	913
Water sand - - - - -	25	938
Rock - - - - -	3	941
Shale, blue with brown streaks - - - - -	119	1060
Blue sandy shale and lime -	54	1114
Blue sand - - - - -	1	1115
Blue shale - - - - -	45	1160
Blue sand, gas - - - - -	5	1165

<u>Driller's log of well 844</u>		
The California Company (Ed. East), Garcia Number 2 B, water well.		
Surface - - - - -	6	6
Sandy clay - - - - -	100	106
Sand - - - - -	5	111
Sandy clay - - - - -	35	146
Red clay - - - - -	18	164
Sandy clay - - - - -	67	231
Red clay - - - - -	23	254
Sand - - - - -	11	265
Red clay - - - - -	4	269
Sand, water - - - - -	10	279
Shale - - - - -	13	292
Sand and gravel, water - -	14	306

<u>Driller's log of well 960</u>		
Milam's, Riley Allen Number 1.		
Surface sand - - - - -	6	6
Sandy clay and caliche - -	54	60
Caliche - - - - -	22	82
Water sand - - - - -	24	106
Sand - - - - -	58	164

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 960--Continued</u>		
Shale and sand - - - - -	8	172
Shale - - - - -	48	220
Pink gumbo - - - - -	38	258
Sand, showing gas - - - -	20	278
Brown gumbo - - - - -	32	310
Clay - - - - -	20	330
Sand - - - - -	44	374
Clay - - - - -	12	386
Sand - - - - -	13	399
Chocolate-colored clay - -	28	427
Sandy lime - - - - -	3	430
Chocolate-colored clay - -	29	459
Hard white sand - - - - -	4	463
Brown clay - - - - -	2	465
White sand - - - - -	1	466
Light sand and lime - - -	3	469
Blue gumbo - - - - -	13	482
Sand rock - - - - -	1	483
Sand - - - - -	2	485
Blue gumbo - - - - -	91	576
Sand - - - - -	5	581
Lime and sand - - - - -	9	590
Light lime and sand - - -	28	618
Blue shale - - - - -	6	624
Blue and gray sandy shale	10	634
Blue shale, tough - - - -	12	646
White gumbo - - - - -	47	693
Sandy shale - - - - -	5	698
Hard sand - - - - -	10	708
Brown shale - - - - -	16	724
Blue gumbo - - - - -	11	735
Blue shale - - - - -	5	740
Blue gumbo - - - - -	18	758
Hard sand - - - - -	12	770
Blue shale - - - - -	18	788
Blue shale, sandy streaks	12	800
Chocolate-colored gumbo -	10	810
Tough blue gumbo - - - -	15	825
Hard sand - - - - -	30	855
Tough gumbo - - - - -	3	858
Sand - - - - -	14	872
Blue gumbo - - - - -	34	906
Gray and blue sandy shale	19	925
Hard sand - - - - -	9	934
Red gumbo - - - - -	6	940
Sand rock - - - - -	1	941
Gumbo - - - - -	2	943
Sandy gray shale - - - -	13	956
Sand, lime and boulders -	29	985
Rock - - - - -	3	988
Sandy shale - - - - -	13	1001
Sand rock - - - - -	1	1002
Brown and blue gumbo - -	49	1051

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Table of Drillers' Logs, Brooks County--Continued

	Thickness (feet)	Depth (feet)
Driller's log of well 960--Continued		
Sand - - - - -	4	1055
Gumbo - - - - -	5	1060
Sandy shale - - - - -	18	1078
Hard sandy rock - - - - -	2	1080
Gumbo - - - - -	1	1081
Sand and boulders - - - - -	3	1089
Gumbo - - - - -	47	1136
Sand and boulders - - - - -	3	1139
Sand, boulders and shale	30	1169
Blue shale - - - - -	18	1187
Blue gumbo - - - - -	16	1203
Hard sand rock - - - - -	6	1209
Shale, streaks of sand -	3	1212
Hard sand and boulders -	4	1216
Tough blue and brown gumbo	52	1268
Tough brown gumbo - -	9	1277

	Thickness (feet)	Depth (feet)
Driller's log of well 960--Continued		
Sand, boulders and lime -	11	1288
Hard sandstone - - - - -	2	1290
Sand, boulders and lime -	7	1297
Shale, streaks of sand -	5	1302
Sand, boulders and lime -	5	1307
Sandy shale - - - - -	6	1313
Shale - - - - -	18	1331
Sand, boulders and lime -	15	1346
Sticky shale, streaks of sand - - - - -	18	1364
Sand and coarse gravel -	13	1377
Blue shale - - - - -	4	1381
Hard sandstone - - - - -	2	1383
Sand and boulders - - - - -	5	1388
Hard rock - - - - -	2	1390
Hard sand - - - - -	5	1395

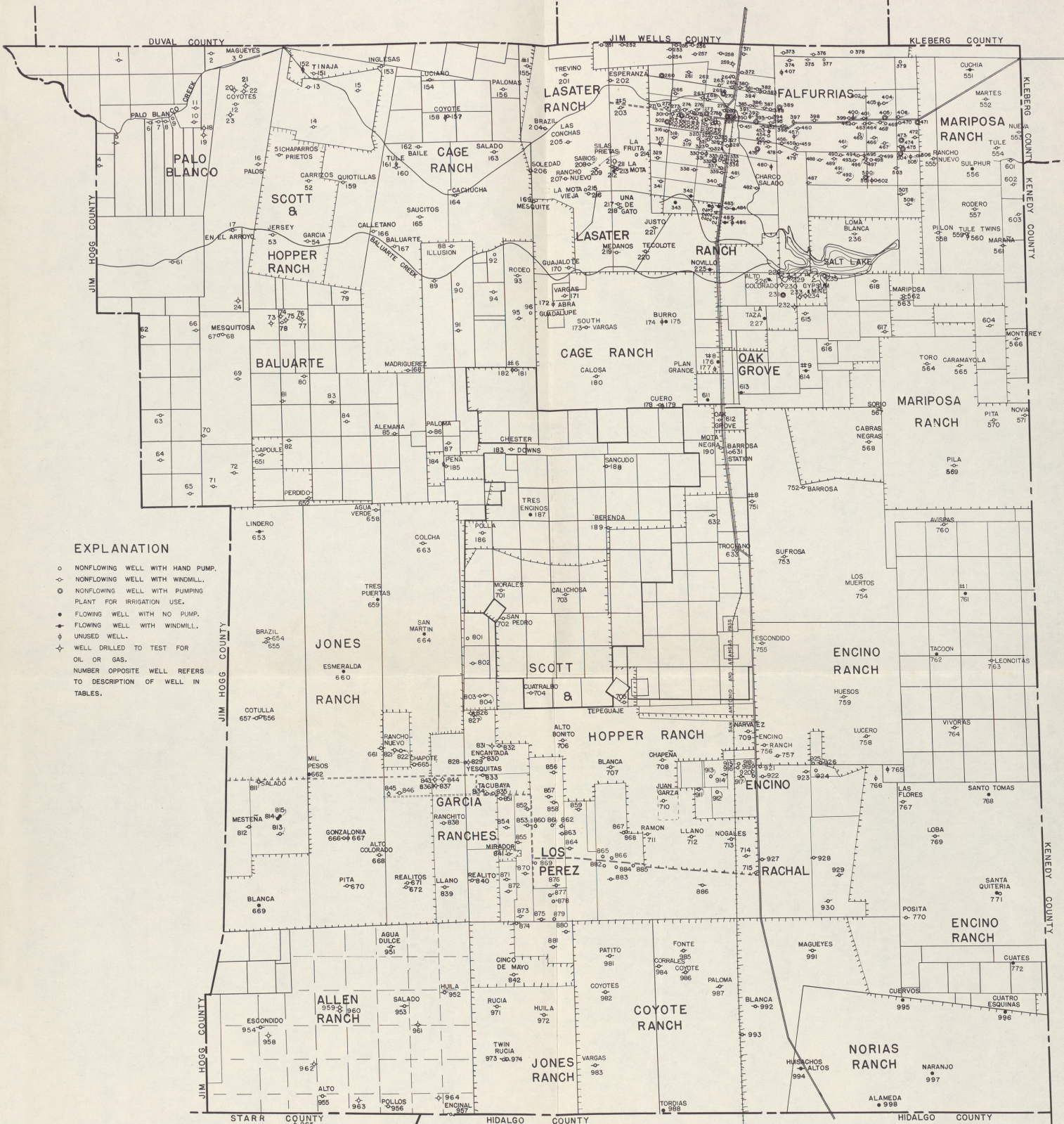
Analyses of water from wells in Brooks County, Texas

(Analyzed by Margaret D. Foster. Parts per million. Numbers at heads of columns correspond to numbers in table of well data.)

	79	280	333	507	613	768	821	998
Silica (SiO ₂) - - - - -	--	--	--	--	--	23	--	30
Iron (Fe) - - - - -	--	--	0.25	0.92	0.39	.29	3.4	.20
Calcium (Ca) - - - - -	88	38	190	50	43	35	38	21
Magnesium (Mg) - - - - -	19	18	213	15	23	15	15	9.2
Sodium (Na) - - - - -						270		280
Potassium (K)	<u>a/</u> 81	<u>a/</u> 168	<u>a/</u> 1,644	<u>a/</u> 148	<u>a/</u> 220		<u>a/</u> 119	
Bicarbonate (HCO ₃) - - - - -	350	278	620	316	292	182	240	302
Sulphate (SO ₄) - - - - -	14	40	941	63	192	266	18	105
Chloride (Cl) - - - - -	115	188	2,430	130	170	232	128	252
Nitrate (NO ₃) - - - - -	12	.50	12	.0	1.2	3.5	23	5.6
Total dissolved solids (calculated) - -	512	589	5,735	562	793	<u>b/</u> 938	462	<u>b/</u> 859
Total hardness as CaCO ₃ (calculated) - -	298	169	1,348	186	202	149	156	90
Date of collection (1933) - -	May 8	Apr. 7	Apr. 7	Apr. 7	Apr. 7	Apr. 19	May 8	Apr. 21

a/ Calculated.

b/ Determined.



EXPLANATION

- NONFLOWING WELL WITH HAND PUMP.
- ◊ NONFLOWING WELL WITH WINDMILL.
- ◐ NONFLOWING WELL WITH PUMPING PLANT FOR IRRIGATION USE.
- FLOWING WELL WITH NO PUMP.
- ⊕ FLOWING WELL WITH WINDMILL.
- ⊖ UNUSED WELL.
- ⊕ WELL DRILLED TO TEST FOR OIL OR GAS.
- ⊖ NUMBER OPPOSITE WELL REFERS TO DESCRIPTION OF WELL IN TABLES.

BASE COMPILED FROM MAP OF BROOKS COUNTY SUPPLIED BY ALLING BLUE PRINT COMPANY, FROM MAPS OF RANCHES BY H. S. BELL, BROOKS COUNTY SURVEYOR, AND FIELD NOTES.

MAP SHOWING LOCATION OF WATER WELLS IN BROOKS COUNTY, TEXAS

U.S. GEOLOGICAL SURVEY AND TEXAS BOARD OF WATER ENGINEERS
FIELD WORK BY SAMUEL F. TURNER
JAMES C. GUMLEY

SCALE 1" = 2000 VARAS

