

TEXAS BOARD OF WATER ENGINEERS

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BULLETIN 6014

VOLUME II

GROUND-WATER RESOURCES OF THE  
LOWER RIO GRANDE VALLEY AREA, TEXAS

Records of Wells, Drillers' Logs, Water Levels  
in Wells, and Chemical Analyses of Water

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Prepared in cooperation with the Geological Survey  
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and the  
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FOREWORD

Volume II

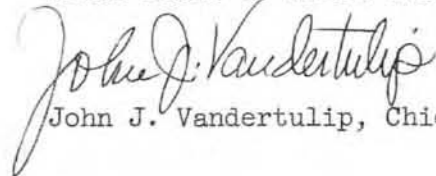
GROUND-WATER RESOURCES OF THE LOWER RIO  
GRANDE VALLEY AREA, TEXAS

This publication is the second of a two volume report on the ground-water resources of the Lower Rio Grande Valley area in Texas, prepared by the Ground-Water Branch of the U. S. Geological Survey in cooperation with the Texas Board of Water Engineers and the Lower Rio Grande Valley Chamber of Commerce, Inc. The Lower Rio Grande Valley area, as defined in this report, consists of Cameron, Hidalgo, Starr, and Willacy Counties; however, records of selected wells and drillers' logs in Kenedy County were used to supplement basic data.

The first volume of this report contains the text which describes, names, and discusses the four principal ground-water reservoirs of the area, and illustrates by maps, geologic cross sections, block diagrams, hydrographs, and other diagrams, many of the results of the study.

Locations of the wells and springs listed in the following tables are shown on the map enclosed in the pocket of this publication.

TEXAS BOARD OF WATER ENGINEERS



John J. Vandertulip, Chief Engineer



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TABLE 4

RECORDS OF WELLS  
IN THE  
LOWER RIO GRANDE VALLEY AREA  
AND  
SELECTED WELLS IN KENEDY COUNTY

1998-1999

1999-2000

2000-2001

2001

2002-2003

Table 4.--Records of wells in Cameron County, Texas

All wells are drilled unless otherwise noted in remarks.

Water level : Reported water levels given in feet, measured water levels given in feet and tenths.

Method of lift and type of power : A, airlift; B, butane; C, cylinder; Cf, centrifugal; E, electric; G, gasoline; H, hand; J, jet; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; RR, railroad; S, stock.

Water-bearing unit : A, alluvium; MS, Mercedes Sebastian shallow ground-water reservoir aquifer; RG, Lower Rio Grande ground-water reservoir.

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*A-1	W. A. Stohl	Ted Pursley	1950	367	8	RG	42.5	12	1950	T,B, 60	Irr	Casing: 367 ft, screen at 284-366 ft. Reported yield 800 gpm. Irrigates 200 acres. <sup>2/</sup>
A-2	do	W. A. Stohl	1950	20	2	MS	42.0	--	--	J,E, 1	D,S	Sandpoint well.
*A-3	do	Ted Pursley	1950	361	8	RG	42.2	12 18 14.4 4.9	1950 May 1954 Sept. 9, 1957 Feb. 17, 1959	T,B, 60	Irr	Casing: 354 ft, screen at 270-354 ft. Reported yield 700 to 800 gpm. <sup>2/</sup>
*A-4	Frank Solis	Harry King	1949	25	3	MS	45.0	--	--	C,W	D,S	Sandpoint well. Reported very hard.
A-5	M. W. Nelson	M. W. Nelson	1950	18	3	MS	39.0	12	1950	C,W	D,S	Sandpoint well. Reported water will kill shrubbery.
*A-6	Cruce Williams	A & T Drilling Co.	1952	300	12	RG	45.0	18	1952	T,B, 145	Irr	Drilled to 329 ft. Casing: 300 ft, slotted from 288 to 298 ft, 3-stage pump, cemented. Irrigates approximately 100 acres. <sup>3/</sup>
*A-7	do	Cruce Williams	1949	27	2	MS	45.0	20	1949	J,E, 1 1/2	D,S	Sandpoint well. Uses water softener.
A-8	do	Ted Pursley	1949	300	4	RG	45.0	9	1949	T,E, 3	D,S	Water reported from sand and gravel at 270-300 ft.
A-9	A. B. White Estate	A & T Drilling Co.	1951	393	--	--	41.5	--	--	--	N	Test hole. <sup>3/</sup>
*A-10	do	Harry King	1944	40	1	MS	42.0	--	--	C,W	S	Sandpoint well.
A-11	M. W. Nelson	M. W. Nelson	1948	20	3	MS	41.0	12	1948	C,H	S	do
*A-12	do	Ted Pursley	1950	366	8	RG	42.0	12	1950	T,B, 75	Irr	Casing: 366 ft, slotted from 271 to 363 ft. Irrigates approximately 100 acres. <sup>2/</sup>
A-13	Ramon de la Rosa	--	1940	20	1	MS	42.0	10	1940	C,W	D,S	Sandpoint well. Reported very salty.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*A-14	Chester Johnson	Ted Pursley	1951	365	8	RG	42.0	--	--	T,B, 60	Irr	Casing: 271 ft of 8-in., 6-in. screen at 271-363 ft. Irrigates 80 acres. <u>2/</u>
*A-15	do	do	1951	365	8	RG	42.5	--	--	T,B, 60	Irr	Casing: 270 ft of 8-in., 6-in. screen at 271-363 ft. Irrigates approximately 80 acres.
*A-16	M. A. Giese	Pursley & Son	1950	362	12	RG	45.5	10 17.3 7.7	1950 Sept. 9, 1957 Feb. 11, 1959	T,B, 75	Irr	Casing: 362 ft, slotted from 247 to 360 ft. Pumps large amount of sand. Irrigates 150 acres. <u>2/</u>
A-17	J. Solis	--	1940	20	2	MS	49.0	--	--	C,H	D,S	Sandpoint well.
A-18	Martin Cavazos	--	1943	30	2	MS	48.0	--	--	C,W	D,S	Sandpoint well. Reported good water.
*A-19	Fred Miller	A & T Drilling Co.	1950	390	12	RG	44.7	22.3 16 13.1 4.9	Sept. 11, 1952 May 1954 Sept. 9, 1957 Feb. 17, 1959	T,B, 60	Irr	Casing: 260 ft of 12-in., 8-in. screen at 260-360 ft. Yield 650 gpm. Temp. 78°F. <u>3/</u>
A-20	--	--	--	30	2	MS	45.0	--	--	C,W	S	Sandpoint well. Salty water.
A-21	Armando Izanaga	--	--	30	3	MS	51.0	--	--	J,E, 1 1/2	P	Sandpoint well. Supplies restaurant and bar.
*A-22	J. G. Ballinger	J. G. Ballinger	1951	21	2	MS	46.0	16	1951	J,E, 1 1/2	D	Sandpoint well. Supplies two families. Temp. 77°F.
*A-23	R. B. Ballinger	R. B. Ballinger	1948	20	2	MS	45.0	18	1948	C,H	D,S	Sandpoint well. Water sand from 16 to 20 ft. Temp. 77°F.
A-24	J. G. Ballinger	--	Old	30	1	MS	39.0	--	--	C,W	S	Sandpoint well.
*A-25	do	Harry King	1945	30	2	MS	42.0	--	--	C,H	S	do
A-26	W. A. Hext	Pursley & Son	1952	325	--	--	40.0	--	--	--	--	Could not set casing in this hole. <u>3/</u>
A-27	Francisco Tovar	--	1948	25	2	MS	46.5	--	--	C,H	D,S	Sandpoint well; replacing two wells abandoned because of salt water.
A-28	W. T. Steele	A & T Drilling Co.	1952	297	12	RG	48.0	14 15.4 7.4	May 1954 Sept. 9, 1957 Feb. 17, 1959	T,B, 65	Irr	Casing: 200 ft of 12-in., 9-in. screen at 200-297 ft. Cemented. Irrigates 60-80 acres. <u>3/</u>
*A-29	E. E. Petri	Carl Junker	1939	254	2	RG	45.0	40	1939	C,W	S	Casing: 254 ft, open end. Water in coarse-grained sand.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*A-30	Bob Harper	Carl Junker	--	110	2	MS	45.0	--	--	C,W	S	Sandpoint well.
A-31	--	Layne-Texas Co., Ltd.	1926	241	--	--	48.9	11	Dec. 1926	--	--	Test well. <u>2/</u>
*A-32	H. E. Rushing	O. N. Gilliland	1938	96	2	MS	48.0	--	--	C,W	D,S	Sandpoint well.
A-33	F. H. Vahlsing	--	Old	25	2	MS	43.0	--	--	C,H	D	do
*A-34	do	A. E. Fawcett	1949	697	12	RG	42.0	6 14.6 8.4	1949 Sept. 9, 1957 Feb. 17, 1959	T,B	Irr	Reported yield 900 gpm. Irrigates 200 acres.
*A-35	do	do	1949	692	12	RG	4		1949	T,B, 55	Irr	Casing and screens unknown. Reported yield 800 to 900 gpm. Well flowed when drilled. Irrigates 200 acres.
*A-36	do	--	1931	35	2	MS	41.0	30	1931	C,W	D,S	Sandpoint well.
A-37	Thomas North	--	1949	30	3	MS	39.7	--	--	J,E, 1 1/2	D,S	do
*A-38	do	A & T Drilling Co.	1951	300	14, 10	RG	40.0	18 16 16.2 10.1	1951 May 1954 Sept. 9, 1957 Feb. 17, 1959	T,B, 75	Irr	Drilled to 363 ft. Casing: 265 ft, 10-in. screen at 279-300 ft. Cemented. 6-stage pump set at 180 ft. Irrigates 160 acres. <u>3/</u>
A-39	Otho Wyrick	A. E. Fawcett	1946	472	--	RG	40.0	--	--	--	--	Reported yield 1,500 gpm. Test well. <u>3/</u>
A-40	Jack Fett	Pursley & Son	1952	558	--	--	41.0	--	--	--	--	Test well. <u>2/</u>
*A-41	Otho Wyrick	Otho Wyrick	1950	14	--	MS	40.0	12	Jan. 1952	Cf, B,90	Irr	A seep tank 300 ft long, 75 ft wide, and 14 ft deep. Irrigates 160 acres. Can pump 12 hours then stops 12 hours for recovery.
A-42	C. A. Ripley	James Taylor	1945	200	12, 8	MS	52.0	--	--	T,E	Ind	Drilled to 1,000 ft. Casing: 70 ft of 12-in., 8-in. from 70 to 200 ft. Gravel-walled well. Slotted casing. Supplies packing shed.
A-43	H. G. Valerius	A & T Drilling Co.	1953	360	--	--	42.0	--	--	--	N	Irrigation test. <u>3/</u>
A-44	W. A. Hext	do	1953	330	16	RG	47.0	--	--	T,G	Irr	Drilled to 457 ft. Cased to 330 ft. Screen from 260 to 330 ft. 12-in. 4-stage pump set at 170 ft. <u>3/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\frac{1}{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
B-1	Henry Adrain	--	Old	30	2	MS	37.0	--	--	C,W	D,S	Sandpoint well.
B-2	F. B. Zamarron	--	1952	35	2	MS	33.0	14.0	July 23, 1952	--	Irr	Six sandpoint wells spaced 20 ft apart. Irrigates 100 acres.
*B-3	Armendiaz Estate	F. B. Zamarron	1951	30	2	MS	31.0	--	--	J,E, 1 $\frac{1}{2}$	D, Irr	Three sandpoint wells. Irrigates 1 acre.
B-4	John Flannigan	--	1945	30+	2	MS	34.0	--	--	C,W	D,S	Sandpoint well.
B-5	Mrs. E. Ballinger	--	Old	27	2	MS	27.0	--	--	C,W	D,S	do
B-6	Lee Cramer	A & T Drilling Co.	1951	822	--	--	28.0	--	--	--	N	Irrigation test well. $\frac{3}{4}$
*B-7	Carlos Hext	--	--	20	1	MS	27.0	--	--	C,W	D	Sandpoint well.
B-8	A. B. White Estate	--	1952	40	2	MS	27.5	10	1952	Cf, G,50	Irr	Twenty-eight sandpoint wells. Irrigates 100 to 200 acres.
*B-9	H. E. Butt	B. L. Schwarz, Jr.	1952	--	2	MS	27.0	7	1952	Cf, B, 145	Irr	Thirty-nine sandpoint wells ranging from 40 to 60 ft in depth. Reported capacity 1,000 gpm. Irrigates 1,000 to 1,200 acres. Temp. 78°F.
B-10	Armendiaz Estate	--	Old	30	2	MS	31.0	--	--	C,W	D,S	Sandpoint well.
*B-11	Lucio Perez	H. King	1947	27	2	MS	38.0	--	--	C,W	D,S	Sandpoint well. Temp. 79°F.
B-12	Armendiaz Estate	Magnolia Petroleum Co.	1945	9,620	--	--	37.0	--	--	--	--	Oil test. $\frac{2}{3}$
*B-13	Roy Johnson	--	Old	35	1	MS	41.0	--	--	C,W	D,S	Sandpoint well.
B-14	N. O. Berry	N. O. Berry	1951	15	--	MS	34.0	--	--	Cf, G,60	Irr	A dug seep tank approximately 200 ft long. Irrigates 60 to 80 acres.
C-1	Phillip Wardner Estate	The Texas Co.	1951	2,100	--	--	15.0	--	--	--	--	Oil test. $\frac{2}{3}$
*C-2	Horace Grissom	--	--	16	60	A(?)	14.0	10.3	July 30, 1945	H	D,S	Dug. Temp. 76°F.
C-3	-- Pares	Standard Oil Co.	--	--	--	--	16.0	--	--	--	--	Oil test. $\frac{3}{4}$
C-4	-- Turfitt	Joseph Anderson	1935	--	--	--	34.0	--	--	--	--	do
*E-1	H. S. Norman	O. N. Gilliland	1943	206	2	RG	48.0	--	--	J,E	D,S	Sandpoint well.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*E-2	Wilson School	Harry King	1945	55	1	MS	41.0	7.1 4	July 15, 1945 May 1954	J,E	P,S	Sandpoint well.
E-3	F. B. Smith	A & T Drilling Co.	1952	185	16	RG	45.0	22	1952	T,B, 72	Irr	Drilled to 185 ft. Casing: 16-in. to 125 ft. Plugged at 185 ft. Irrigates 80 acres. <u>3/</u>
*E-4	Berl Berry	do	1952	200	12	RG	47.5	--	--	T,B, 145	Irr	Drilled to 451 ft. Casing: 12-in. to 124 ft. Screen at 124-200 ft. Plugged at 200 ft. Pump set at 117 ft. Reported yield 900 gpm. <u>2/ 3/</u>
E-5	Carl Junker	Carl Junker	--	34	2	MS	--	--	--	C,W	D,S	Sandpoint well.
E-6	John Abbott	A & T Drilling Co.	1952	330	12	RG	52.0	23.1 21 14.0	Oct. 13, 1952 May 1954 Feb. 17, 1959	T,B, 54	Irr	Drilled to 390 ft. Casing: 12-in. to 260 ft. Screen at 260-330 ft. 3-stage pump set at 120 ft. Cemented. Irrigates approximately 300 acres. <u>3/</u>
*E-7	Will McCorkele	do	1952	243	12	RG	56.0	--	--	T,B, 72	Irr	Casing: 12-in. to 243 ft. Slotted from 224 to 242 ft. 3-stage pump set at 120 ft. Reported yield 1,500 gpm. Irrigates 150 acres. <u>2/</u>
E-8	H. M. Snap	Otis Gilliland	1952	--	2	MS	54.0	--	--	Cf, E,5	Irr	Eighteen sandpoint wells 30 to 50 ft deep. All wells connected to 3-in. suction pipe. Irrigates 20 to 30 acres.
*E-9	A. L. Allen	--	1926	26	4	MS	56.0	8.4	Sept. 8, 1945	J,E, 1 1/2	D,S	Sandpoint well.
E-10	J. J. Thompson	-- Thompson	1924	29	2	MS	44.0	--	--	C,W	D,S	do
*E-11	E. N. Keeton	Carl Junker	1945	34	2	MS	57.0	8.3	July 19, 1945	J,E, 14	D	Sandpoint well. Temp. 79°F.
E-12	La Feria Water District	Layne-Texas Co., Ltd.	1926	66	24	MS	53.0	--	--	--	N	Test well. Gravel-walled. Screen at 21-66 ft. Measured yield 350 gpm. Reported drawdown 41 ft.
E-13	H. M. Snap	H. M. Snap	1952	--	2	MS?	56.5	--	--	Cf, G,25	Irr	Twenty sandpoint wells connected to 3-in. suction pipe. Irrigates 20 acres.
E-14	do	do	1952	--	2	MS?	57.0	--	--	Cf, G,50	Irr	do

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <u>1/</u>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
E-15	D. M. Cool	D. M. Cool	1952	--	2	MS?	57.0	--	--	Cf, G,55	Irr	Eleven sandpoint wells connected to 4-in. suction pipe. Irrigates 40 acres.
*E-16	Willis Seward	A & T Drilling Co.	1952	240	12	RG	56.5	8 18 22.6 12.9	1952 1954 May Sept. 9, 1957 Feb. 17, 1959	T,B, 159	Irr	Casing: 240 ft, slotted from 232 to 239 ft. 3-stage pump set at 120 ft. Irrigates 300 acres.
*E-17	C. O. Moore	do	1952	238	12	RG	60.0	10 19.0 12.2	1952 July Sept. 9, 1957 Feb. 17, 1959	T,B, 75	Irr	Casing: 188 ft, screen at 189-238 ft. 3-stage pump set at 120 ft. Irrigates 205 acres. <u>3/</u>
*E-18	N. M. Groves	N. M. Groves	1952	35	2	MS	59.0	8	1952	Cf, G,15	Irr	Six sandpoint wells connected to 3-in. suction line. Reported sand from 12 to 35 ft. Irrigates 40 acres.
*E-19	J. C. Dunn	James B. Taylor	1944	216	14	RG	55.0	10	Apr. 1954	T,E, 10	Ind	Casing: 186 ft, screen at 186-216 ft. 2-stage, 12-in. bowl pump. Supplies packing shed. Temp. 79°F.
*E-20	Adams Gardens Food Products Co.	do	1945	502	12	RG	57.0	11	1945	T,E, 15	Ind	Drilled to 565 ft. Casing: 321 ft, slotted from 321 to 502 ft. Measured yield 625 gpm. Drawdown 17 ft. <u>2/ 3/</u>
*E-21	D. G. Dill	--	1945	23	1	MS	48.0	--	--	J,E, $\frac{1}{2}$	D	Sandpoint well.
*E-22	Henry Sepp	Carl Junker	1942	40	2	MS	53.0	5.8	July 15, 1945	J,E	D	Sandpoint well. Temp. 76°F.
*E-23	City of La Feria	A & T Drilling Co.	1946	267	13	RG	55.0	20 12	1952 1957	T,E, 30	P,S	Casing: 148 ft, 10-in. screens from 148 to 262 ft. 5-stage pump. Measured yield 750 gpm. Drawdown 90 ft. <u>3/</u>
E-24	do	Layne-Texas Co., Ltd.	1929	216	16	RG	55.0	--	--	--	N	Abandoned in 1946.
*E-25	do	A & T Drilling Co.	1949	242	18	RG	55.0	14	1949	T,E, 30	P,S	Casing: 155 ft, 10-in. screen at 155-242 ft. Measured yield 740 gpm. Drawdown 34 ft. Gravel-valled. Cemented. <u>2/</u>
E-26	Rabb Tract	Layne-Texas Co., Ltd.	1926	232	--	--	68.0	8	1926	--	N	Irrigation test. <u>2/</u>

\* See footnotes at end of table.



Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
E-27	W. W. Cloud	--	1952	--	6	MS?	54.0	--	--	Cf, G,50	Irr	Two sandpoint wells connected to 6-in. suction pipe. Irrigates 40 acres.
*E-28	Paul Davies	Waldrep & Hamilton	1945	246	2	RG	50.0	20	1945	J,E	D,S	Casing: 242 ft, open end. <sup>2/</sup>
*E-29	H. G. McCrum	Carl Junker	1943	218	2	RG	44.0	10	1943	C,E, 1/3	D	Casing: 218 ft, open end. Gravel from 200 to 218 ft. Pump set at 50 ft.
*E-30	Sid Berly	Adams Gardens Drilling Co.	1952	214	12	RG	44.0	12 21.5	May 1954 Sept.10, 1957	T,E, 75	Irr	Casing: 214 ft, slotted from 200 to 214 ft. This is one of 5 wells that irrigates 2,000 acres. <sup>3/</sup>
*E-31	do	do	1952	184	12	RG	51.0	28.5 24.6 14.1	July 7, 1952 Sept.10, 1957 Feb. 17, 1959	T,E, 75	Irr	Casing: 184 ft slotted from 163 to 184 ft. Temp. 78°F. <sup>3/</sup>
*E-32	B. H. Dunlap	A & T Drilling Co.	1952	229	12	RG	60.0	--	--	T,B, 145	Irr	Casing: 229 ft, slotted from 222 to 228 ft. 3-stage pump set at 120 ft. Measured yield 950 gpm. Irrigates 100 acres. Temp. 78°F. <sup>2/</sup>
E-33	Leslie & Ernest Moore	Gene Liberty	1952	190	12	RG	54.0	21	June 1952	T,B, 55	Irr	Casing: 190 ft, slotted from 174 to 190 ft. Irrigates approximately 200 acres.
*E-34	Martin Palmer	A & T Drilling Co.	1952	214	12	RG	55.0	23.1 22 31.7 16.7	Oct. 5, 1952 May 1954 Sept.10, 1957 Mar. 2, 1959	T,E, 40	Irr	Casing: 214 ft, slotted from 201 to 213 ft. Measured yield 763 gpm. Irrigates 100 acres. Temp. 79°F. <sup>2/</sup>
*E-35	T. S. Wallace	O. N. Gilliland	1945	201	1	RG	54.0	14.5	July 27, 1945	J,E, 1/2	D,S	Casing: 201 ft, open end.
*E-36	John Weckl	A & T Drilling Co.	1949	350	2	RG	56.0	--	--	T,G, 65	Irr	Casing: 350 ft, slotted-unknown. Reported yield 1,200 gpm. Irrigates 103 acres. Temp. 78°F.
*E-37	Carl Zeitler	Carl Junker	1927	217	2	RG	54.0	--	--	C,W	D,S	Casing: 217 ft, open end. Temp. 78°F.
*E-38	Bob Hall	A & T Drilling Co.	1952	225	12	RG	53.0	31.9	July 24, 1952	T,B, 72	Irr	Casing: 225 ft, slotted from 217 to 224 ft. Measured yield 756 gpm. Irrigates 300 acres. Cemented with 60 sacks of cement. Temp. 79°F. <sup>2/</sup>

\* See footnotes at end of table.

Table 4. --Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <u>1</u>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*E-39	Bob Hall	A & T Drilling Co.	1952	155	12	RG	59.0	18.2	Oct. 2, 1952	T,E, 75	Irr	Casing: 155 ft, slotted from 147 to 154 ft. Measured yield 669 gpm. Drawdown 67 ft. 4-stage pump set at 150 ft. Cemented with 60 sacks of cement. Irrigates 140 acres. <u>2</u>
*E-40	Sid Berly	do	1952	228	12	RG	53.5	19	July 1952	T,E, 50	Irr	Casing: 228 ft, slotted from 220 to 227 ft. Temp. 79°F. <u>2</u>
E-41	Odell Morrow	do	1952	257	12	RG	48.0	--	--	T,B	Irr	Casing: 257 ft, slotted from 240 to 250 ft. 3-stage pump set at 120 ft. Cemented with 75 sacks of cement. Irrigates about 60 acres.
*E-42	Sid Berly	Adams Gardens Drilling Co.	1952	255	12	RG	51.5	20	May 1954	T,E, 75	Irr	Casing: 255 ft, slotted from 247 to 255 ft. One of 5 wells that irrigates 2,000 acres. Temp. 79°F. <u>3</u>
*E-43	H. C. Lewis	A & T Drilling Co.	1951	168	12	RG	52.0	19	1951	T,B, 145	Irr	Casing: 168 ft, slotted from 157 to 165 ft. Irrigates 80 acres. Temp. 78°F. <u>2</u>
E-44	T. S. Wallace	--	Old	135	6	RG	56.0	13.6	July 27, 1945	C,W	S	Casing: 135 ft.
E-45	Ed Wolfe	A & T Drilling Co.	1952	169	122	RG	57.0	18.9	Aug. 19, 1952	T,B, 145	Irr	Casing: 169 ft, slotted from 153 to 168 ft. 3-stage 12-in. bowl pump set at 120 ft. Cemented with 69 sacks of cement. Irrigates 40 acres. <u>2</u>
*E-46	Felix Till	do	1952	155	12	RG	59.0	--	--	T,B, 65	Irr	Casing: 155 ft, slotted from 138 to 153 ft. 3-stage pump set at 120 ft. Reported yield 900 gpm. Irrigates 80 to 100 acres. <u>2</u>
*E-47	Richard Rowland	do	1952	175	12	RG	56.5	--	--	T,E, 75	Irr	Casing: 175 ft, slotted from 161 to 174 ft. Cemented with 60 sacks of cement. Irrigates 100 acres. Reported yield 1,000 gpm. <u>2</u>
*E-48	Steve Hobeck	--	1950	165	12	RG	52.0	19	1950	T,B, 55	Irr	Casing: 165 ft, 8-in. pump set at 70 ft. Measured yield 500 gpm. Irrigates approximately 80 acres. Temp. 79°F.
E-49	H. C. Lewis	A & T Drilling Co.	1951	242	12	RG	51.5	18	1951	T,B, 145	Irr	Casing: 242 ft, slotted 214 to 240 ft. Cemented. Irrigates 80 acres. <u>2</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\frac{1}{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*E-50	L. L. Lawson	A & T Drilling Co.	1952	222	12	RG	50.0	--	--	T,B, 60	Irr	Casing: 12-in. to 76 ft, 16-in. from 76 to 222 ft. Slotted from 166 to 178 ft and 208 to 220 ft. Cemented with 75 sacks of cement. Reported yield 2,000 gpm. Drawdown 54 ft. Irrigates 300 acres. $\frac{2}{2}$
*E-51	City of Harlingen	do	1952	170	12	RG	51.5	20	1952	T,B, 65	P	Casing: 174 ft, slotted from 159 to 169 ft. 3-stage pump set at 120 ft. Measured yield 846 gpm. Cemented with 60 sacks of cement. Temp. 78°F. $\frac{2}{2}$
E-52	C. L. Kaiegler	do	1952	165	12	RG	53.0	--	--	T,B, 65	Irr	Casing: 165 ft, slotted from 154 to 164 ft. Cemented with 60 sacks of cement. Cement plug 164 to 165 ft. Irrigates about 100 acres. $\frac{2}{2}$
*E-53	Mrs. J. A. Morgan	Herman Hamilton	1944	141	1	RG	52.0	--	--	J,E, 1/3	D	Sandpoint well.
*E-54	Dave Morgan	A & T Drilling Co.	1952	172	12	RG	58.0	--	--	T,B, 50	Irr	Casing: 172 ft, slotted from 159 to 171 ft. Cemented with 60 sacks of cement. Measured yield 1,588 gpm. Irrigated 640 acres in 1952. Temp. 78°F. $\frac{2}{2}$
*E-55	Sid Berly	Adams Gardens Drilling Co.	1952	205	12	RG	61.0	--	--	T,E, 75	Irr	Casing: 205 ft, slotted from 198 to 205 ft. Measured yield 1,005 gpm. One of 5 wells that irrigate 2,000 acres. Temp. 79°F. $\frac{3}{2}$
*E-56	Bob Hall	A & T Drilling Co.	1952	160	12	RG	54.0	--	--	T,E, 75	Irr	Casing: 160 ft, slotted from 152 to 159 ft. Measured yield 1,015 gpm. 3-stage pump set at 120 ft. Irrigates 100 acres. Temp. 78°F. $\frac{2}{2}$
*E-57	John Benson	do	1947	162	12	RG	58.0	19 17.1	1947 June 27, 1955	T,B, 75	Irr	Casing: 162 ft, slotted from 152 to 160 ft. Reported sand from 140 to 145 and coarse gravel from 152 to 160 ft. Measured yield 891 gpm. Irrigates 100 acres. Temp. 80°F.
*E-58	H. C. Lewis	do	1951	164	12	RG	60.0	20	1951	T,B, 55	Irr	Casing: 164 ft, slotted from 153 to 161 ft. Irrigates 40 to 60 acres. Temp. 78°F. $\frac{2}{2}$

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) 1/	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*E-59	A. J. Phillips	A & T Drilling Co.	1951	164	12	RG	60.0	19.8	Jan. 18, 1952	T,B, 50	Irr	Casing: 164 ft, slotted from 149 to 160 ft. Measured yield 800 gpm. Drawdown 34 ft after 12 hours pumping. Irrigates 80 acres. Temp. 78°F.
*E-60	do	Carl Junker	1939	149	2	RG	58.0	17	July 1945	J,E, ½	D,S	Casing: 149 ft, open end. Reported sand and gravel. Pump was lowered in 1952. Temp. 77°F.
E-61	I. F. Bauer	do	--	152	2	RG	59.0	--	--	J,E	D,S	Casing: 152 ft, open end.
E-62	B. J. Wolfe	do	--	158	2	RG	60.0	--	--	C,W	D,S	Casing: 158 ft, open end.
E-63	J. C. Dunn	--	1946	170	12	RG	59.5	--	--	--	Irr	Casing: 170 ft, slotted in gravel; was used until 1948 then caved. Will be reworked.
*E-64	do	--	Old	155	4	RG	61.0	16	July 1945	J,E, 1½	D,S	Casing: 140 ft. Pump set at 120 ft. Temp. 79°F.
*E-65	Cardell Gunn	A & T Drilling Co.	1952	167	12	RG	64.5	19.5 22 32.4 16.4	June 18, 1952 May 1954 Sept.10, 1957 Mar. 2, 1959	T,B, 65	Irr	Casing: 167 ft, slotted from 158 to 165 ft. 3-stage pump set at 120 ft. Cemented with 60 sacks of cement. Measured yield 850 gpm. Irrigates 80 acres. 2/
*E-66	Paul Merten	Virdell Drilling Co.	1952	162	16	RG	67.0	18 33.6 15.0	Sept. 1952 Sept.10, 1957 Mar. 2, 1959	T,B, 108	Irr	Casing: 162 ft, slotted from 143 to 159 ft. 3-stage, 14-in. bowl pump set at 140 ft. Gravel-packed. Measured yield 1,142 gpm. Irrigates 300 acres. Sells. water.
E-67	Sid Berly	Adams Gardens Drilling Co.	1952	197	--	--	45.0	--	--	--	N	Irrigation test. 2/ 3/
*E-68	City of Harlingen	A & T Drilling Co.	1956	168	16	RG	55.0	32.1	July 17, 1957	T,E, 75	P	Cased to bottom. Slotted from 160 to 166 ft. 12-in. 3-stage pump set at 140 ft. Measured yield 1,300 gpm. Not E-68 in Rose, N. A., (1954), City of Harlingen well 5. 2/
*E-69	do	do	1953	165	16	RG	49.5	23.9 24.7 10.5	Sept.16, 1953 July 17, 1957 Mar. 2, 1959	T,E, 75	P	Drilled to 225 ft. Cased to 165 ft. Slotted from 158 to 165 ft. Pump set at 140 ft. Reported yield 1,100 gpm. City of Harlingen well 2. 2/3/

\* See footnotes at end of table.

Table 4.---Records of wells in Cameron County---Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <u>1</u>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*E-70	City of Harlingen	A & T Drilling Co.	1953	163	16	RG	50.5	24.9 26.9	Sept. 16, 1953 July 17, 1957	T, E, 75	P	Drilled to 168 ft. Cased to 163 ft. Slotted from 156 to 163 ft. Measured yield 1,480 gpm. City of Harlingen well 3. <u>2</u> / <u>3</u>
*E-71	do	Henry Cleveland	1953	222	16	RG	53.0	26.8 30.7	Sept. 16, 1953 July 17, 1957	T, E, 75	P	Drilled to 241 ft. Cased to 222 ft. Slotted from 146 to 164 ft and from 196 to 219 ft. Pump set at 140 ft. Reported yield 700 gpm. City of Harlingen well 4. <u>3</u>
*E-72	do	do	1953	166	16	RG	55.0	29.6 32.6 14.9	Sept. 16, 1953 July 17, 1957 Mar. 2, 1959	N	--	Drilled to 240 ft. Cased to 166 ft. Observation well. Slotted from 150 to 166 ft. Abandoned in 1956. Recording gage installed September 1957. City of Harlingen well 5A. <u>3</u>
*E-73	do	A & T Drilling Co.	1953	169	16	RG	52.0	28.6 29.9	Sept. 16, 1953 July 17, 1957	T, E, 75	P	Cased to 168 ft. Slotted from 160 to 168 ft. Pump set at 140 ft. Reported yield 1,300 gpm. City of Harlingen well 6. <u>2</u> / <u>3</u>
E-74	E. L. Snyder	do	1957	241	16	RG	57.0	--	--	T, B, 84	Irr	Cased to bottom. Slotted from 228 to 240 ft. 12-in. 3-stage pump set at 140 ft. Irrigates 40 acres.
E-75	L. M. Vigness	do	1957	250	12	RG	58.0	--	--	T, B, 84	Irr	Cased to bottom. Slotted from 237 to 248 ft. 12-in. 3-stage pump set at 140 ft. Irrigates approximately 80 acres. <u>2</u> / <u>3</u>
*E-76	C. J. Hoverson	--	1941	35	2	RG	61.0	--	--	Cf	D	Sandpoint well. Temp. 78°F.
E-77	L. J. Strieber well 1	H. L. Hunt	1953	8,518	--	--	--	--	--	--	--	Oil test. <u>3</u>
*F-1	D. B. Meadows	D. B. Meadows	1951	16	--	MS	41.0	14.0	Jan. 14, 1952	Cf, E, 5	Irr	A seep tank, 300 ft long, 50 ft wide and 16 ft deep. Can pump 12 hours then allow 12 hours for recovery. Irrigates 160 acres.
*F-2	Mrs. Doris Templeton	--	--	32	7	MS	39.0	9.6	July 13, 1945	Cf, E, 5	P	Five wells. Reported yield 1,500 gph. 100 customers in town of Combes. Temp. 75°F.
*F-3	Jose Chavez, Jr.	Jose Chavez, Jr.	1952	40	1	MS	34.0	--	--	Cf, G, 55	Irr	Twelve sandpoint wells connected to 3-in. suction pipe. Reported yield 250 gpm. Irrigates 10 acres. Temp. 77°F.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\frac{1}{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
F-4	J. E. Strickland	--	1935	20	1	MS	35.0	--	--	J,E, $\frac{1}{2}$	D	Sandpoint well.
*F-5	Pedro Chavez	Pedro Chavez	1952	40	1	MS	31.0	--	--	Cf, G,20	Irr	Twelve sandpoint wells, 3-in. suction 4-in. discharge. Reported yield 200 to 250 gpm. Irrigates 40 acres.
F-6	John Abbott	A & T Drilling Co.	1952	1,404	--	--	29.0	--	--	--	N	Irrigation test. $\frac{3}{4}$
F-7	do	do	1952	257	--	--	29.0	--	--	--	N	Domestic test. Salty water.
*F-8	U. S. Government	--	1944	1,012	--	--	36.0	--	--	--	N	Public supply test.
*F-9	Felix Puga	Felix Puga	1945	14	6	MS	30.0	8.7	Aug. 5, 1945	H	D	Casing, open end. Temp. 77°F.
F-10	Guy Leggett	-- White	1941	26	2	MS	37.0	--	--	C,W	D,S	
*F-11	G. A. Lovelace	--	Old	30	2	MS	39.0	--	--	J,E	D,S	Sandpoint well.
F-12	Food Machinery Corp.	A & T Drilling Co.	1946	1,237	--	--	39.0	--	--	--	N	Industrial test. $\frac{3}{4}$
F-13	Mrs. O. L. Welch	Adams Gardens Drilling Co.	1952	248	--	--	32.0	--	--	--	N	Irrigation test. $\frac{3}{4}$
F-14	Paul Hulsey	Shell Oil Co.	1952	11,106	--	--	29.0	--	--	--	--	Oil test. $\frac{3}{4}$
F-15	Al Parker	Goldrus Drilling Co.	1947	1,960	--	--	37.0	--	--	--	--	do
F-16	Southwest Packing Co.	A & T Drilling Co.	1947	300	--	--	40.0	--	--	--	N	Industrial test. $\frac{3}{4}$
F-17	Joe Garrett	-- Waldrep	1945	131	1	RG	47.0	--	--	J,E, $\frac{1}{2}$	D	Sandpoint well.
*F-18	H. Horton	O. N. Gilliland	1945	223	1	RG	48.0	18	1945	C,H	D	Sandpoint well. Temp. 76°F.
*F-19	T. J. Wallace	do	Old	135	2	RG	42.0	18	1945	C,W	D,S	Sandpoint well. Reported sand from 125 to 135 ft.
*F-20	C. E. Morgan	do	1945	225	2	RG	40.0	17	1945	C,H	D,S	Casing: 225 ft, open end. Water from gravel. Temp. 76°F.
F-21	George W. Gamble	O. B. Martin	1952	439	--	--	37.0	--	--	--	N	Irrigation test. $\frac{3}{4}$

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*F-22	G. B. Smith	A & T Drilling Co.	1952	253	12	RG	43.0	18 19.5	Mar. 2, 1952	T,B, 85	Irr	Casing: 253 ft, slotted from 230 to 251 ft. 3-stage pump set at 120 ft. Reported yield 1,000 gpm. Irrigates 80 to 120 acres. <u>2/</u>
*F-23	Tomas Pena	--	Old	160	1	RG	45.0	--	--	C,W	D	Sandpoint well. Temp. 77°F.
*F-24	O. W. Axtell	V. E. Morrow	1944	215	1	RG	46.0	25	1944	C,E	D	Casing: 215 ft, sandpoint well. Sand and gravel reported from 210 to 215 ft. Temp. 76°F.
F-25	J. A. Alderdice	do	1944	275	--	--	46.0	--	--	--	N	Domestic test. Reported gumbo clay. Dry.
F-26	H. A. Thieme	--	1923	10	120	RG	49.0	4.5	July 29, 1945	C,E	D,S	Dug. Concrete casing. Reported yield 13 gpm.
*F-27	L. R. Mortesen	A & T Drilling Co.	1952	218	12	RG	45.0	26	May 1954	T,B, 65	Irr	Drilled to 310 ft. Casing: 218 ft. Screen at 158-218 ft. 3-stage pump. Reported yield 675 gpm. Irrigates 80 to 100 acres. <u>3/</u>
F-28	W. D. Peters	V. E. Morrow	1945	200	--	--	44.0	--	--	--	N	Domestic test. Reported sand. Water insufficient.
F-29	Sunny Glen Home	--	Old	14	144	RG	42.0	5.5	July 5, 1945	H	S	Dug. Casing: 14 ft of brick.
F-30	W. J. Woolem	Virdell Drilling Co.	1952	399	--	--	37.5	--	--	--	N	Irrigation test. <u>2/</u>
F-31	Central Power & Light Co.	Layne-Texas Co. Ltd.	1952	238	20	RG	38.0	21 38	Oct. 1952 Apr. 1954	T,E, 40	Ind	Drilled to 250 ft. Casing: 153 ft of 20-in. Screen at 153-238 ft. Cemented and gravel-walled. Measured yield 412 gpm. <u>3/</u>
F-32	do	do	1952	240	20	RG	38.0	--	--	T,E, 40	Ind	Drilled to 240 ft. Casing: 178 ft of 20-in. Screen at 178 to 240 ft. Cemented and gravel-walled. Measured yield 450 gpm. Drawdown 80 ft. <u>3/</u>
F-33	do	do	1952	230	20	RG	38.0	--	--	T,E, 40	Ind	Casing: 164 ft of 20-in. Screen at 164 to 228 ft. Cemented with 130 sacks of cement. Measured yield 536 gpm. <u>3/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\bar{1}$ / $\bar{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*F-34	Alexander Marketing Co.	A & T Drilling Co.	1948	230	12	RG	39.0	15	Jan. 1952	T,E, 30	Ind	Drilled to 322 ft. Casing: 165 ft of 12-in. screen at 165-185 ft, and 200 to 230 ft. Uses 150,000 gpd during peaking season. $\bar{2}$ / $\bar{3}$
*F-35	Ernest Long	Henry Cleveland	1952	171	20	RG	27.5	8.3 8	June 26, 1952 May 1954	T,B, 60	Irr	Drilled to 291 ft. Casing: 171 ft, slotted from 100 to 170 ft. Gravel-packed. 3-stage pump. Reported yield 1,000 gpm. Measured drawdown 32 ft after 4 hours pumping. Irrigates 150 acres. $\bar{3}$ / $\bar{4}$
*F-36	Wilfred Mack	Bert Killinger	1952	180	12	RG	27.0	9.4	June 25, 1952	T,B, 145	Irr	Casing: 180 ft, slotted from 37 to 180 ft. Reported yield 1,000 gpm. Irrigates 150 to 200 acres. Temp. 79°F.
F-37	Ernest Long	A & T Drilling Co.	1952	200	12	RG	27.0	9.0 12.0 4.4	July 17, 1952 Sept. 30, 1957 Mar. 2, 1959	--	N	Casing: 150 ft, slotted - unknown. Well pumped 60 days then caved. Abandoned. $\bar{3}$ / $\bar{4}$
*F-38	M. H. Scaief	Tom Wilkinson	1952	198	12	RG	29.0	--	--	T,B, 62	Irr	Casing: 198 ft, slotted from 156 to 196 ft. Reported yield 800 gpm. Irrigates 300 acres. $\bar{2}$ / $\bar{3}$
*F-39	City of San Benito	Henry Cleveland	1952	169	20	RG	33.0	11.0	June 19, 1952	T,E, 40	P	Drilled to 226 ft. Casing: 169 ft, slotted from 112 to 169 ft. Used as standby supply for city. $\bar{3}$ / $\bar{4}$
F-40	E. A. Daugherty	Tom Wilkinson	1952	122	4	RG	32.0	10	1952	J,G, 90	Irr	Casing: 122 ft, slotted from 110 to 122 ft. Reported yield 400 gpm. Irrigates 10 acres. Water reported 2,412 ppm total solids.
*F-41	Mrs. Margaret Yost	O. N. Gilliland	1929	130	1	RG	35.0	--	--	J,E	D	Casing: 130 ft. Sandpoint well.
F-42	C. W. Hansen	V. E. Morrow	1945	230	--	--	44.0	--	--	--	N	Domestic test. No water-bearing strata found.
*F-43	E. Hartle	--	1935	136	2	RG	45.0	5.2	Aug. 6, 1945	J,E, 1/4	D	Casing: 136 ft. Sandpoint well.
*F-44	D. H. Palmer	Virdeil Drilling Co.	1952	166	12	RG	49.0	17.7 17.5 26.2 10.5	Aug. 19, 1952 May 3, 1954 Sept. 30, 1957 Mar. 2, 1959	T,B, 75	Irr	Casing: 166 ft, slotted from 115 to 166 ft. Gravel-packed with 21 yards of gravel. 3-stage pump set at 120 ft. Irrigates 93 acres. Temp. 79°F. $\bar{2}$ / $\bar{3}$

\* See footnotes at end of table.



Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*F-45	V. E. Morrow	A & T Drilling Co.	1952	262	12	RG	48.0	18	1952	--	N	Casing: 262 ft, slotted from 250 to 260 ft. Pumped large amounts of lignite when brought in. Abandoned. <sup>2/</sup>
F-46	Jack Garrett	do	1952	259	12	RG	49.0	18.9 34.6 17.2	July 24, 1952 Sept. 11, 1957 Mar. 2, 1959	T,B, 72	Irr	Drilled to 394 ft. Casing: 12-in. to 184 ft, 9-in. screen at 184 to 259 ft. Cemented and plugged at 259 ft. Irrigates 190 acres. <sup>3/</sup>
F-47	V. E. Morrow	do	1952	257	12	RG	49.0	--	--	T,B, 72	Irr	Casing: 257 ft, slotted from 247 to 256 ft. Cemented. Reported yield 900 gpm. Irrigates 68 acres. Can irrigate 600 acres. Temp. 78°F.
F-48	C. S. Halbert	O. L. Waldrep	1943	160	3	RG	49.0	8.7	July 10, 1952	--	N	Unused.
*F-49	O. L. Waldrep	do	1943	155	1	RG	54.0	--	--	J,E, <sup>1</sup> / <sub>2</sub>	D	Casing: 155 ft, open end. Reported gravel from 151 to 155 ft.
*F-50	B. F. Morrow	A & T Drilling Co.	1952	163	12	RG	50.0	--	--	T,B, 72	Irr	Casing: 163 ft, slotted from 152 to 162 ft. Cemented with 60 sacks of cement. 5-stage pump set at 120 ft. Irrigates approximately 100 acres. <sup>2/</sup>
*F-51	D. C. Hance	Morrow & Waldrep	1928	144	1	RG	51.0	9	1928	C,W	D	Casing: 144 ft. Sandpoint well. Reported water gravel 139 to 144 ft.
*F-52	M. D. Hance	A & T Drilling Co.	1948	178	12	RG	50.0	15	1948	T,B, 60	Irr	Casing: 178 ft, slotted from 158 to 176 ft. Reported yield 750 gpm. Irrigates 250 acres.
*F-53	L. M. Mikklesen	do	1948	185	8	RG	54.0	--	--	T,B, 55	Irr	Casing: 185 ft, slotted from 165 to 183 ft. Reported yield 600 gpm. Irrigates approximately 80 acres. Temp. 79°F.
*F-54	T. Oyama	Tom Wilkinson	1952	200	12	RG	52.5	20	1952	T,B, 145	Irr	Casing: 200 ft, slotted from 174 to 200 ft. 3-stage pump. Measured yield 1,000 gpm. Irrigates 250 acres. Temp. 77°F. <sup>2/</sup>
*F-55	Ray McDonald	do	1952	212	12	RG	47.0	--	--	T,B, 65	Irr	Casing: 206 ft, slotted from 148 to 205 ft. Reported yield 850 gpm. Irrigates approximately 200 acres. <sup>2/</sup>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
F-56	Jim Perkins	--	Old	11	24	RG	43.0	6.1	Aug. 2, 1952	J,E	D	Dug. Casing: 11 ft brick, open end. Temp. 77 $\frac{1}{2}$ °F.
F-57	G. W. McCain	Tom Wilkinson	1952	180	12	RG	44.0	10 30 15.6	1952 May 1954 Mar. 2, 1959	T,E, 75	Irr	Casing: 180 ft, slotted from 110 to 180 ft. 3-stage pump. Not cemented. This well and wells no. F-61 and F-62 irrigate 420 acres. <u>2/</u>
*F-58	do	--	1922	18	12	RG	44.0	14	Aug. 1945	J,E	D	Casing: 18 ft tile, open end. Never failed. Temp. 76° F.
*F-59	John Kuhar	O. N. Gilliland	1951	150	4	RG	41.0	--	--	Cf, G,10	Irr	Casing: 150 ft, slotted in gravel. Irrigates 25 acres. Temp. 77 $\frac{1}{2}$ °F.
*F-60	Joe M. Spear	Tom Wilkinson	1952	162	4	RG	45.0	21.3	July 22, 1952	J,E, 5	Irr	Casing: 162 ft, slotted. Irrigates 30 acres. Reported yield 500 gpm.
*F-61	G. W. McCain	do	1952	386	12	RG	46.0	19	1952	T,E, 75	Irr	Casing: 385 ft, slotted from 136 to 152 ft and 320 to 385 ft. 3-stage pump. Not cemented. Reported yield 1,750 gpm. <u>2/</u>
*F-62	do	A & T Drilling Co.	1948	310	12	RG	45.0	--	--	T,B, 54	Irr	Drilled to 310 ft. Casing: 310 ft, slotted from 230 to 260 ft, and 290 to 310 ft. Cemented with 200 sacks of cement. 3-stage pump. Reported yield 450 gpm. <u>3/</u>
*F-63	George W. Gamble	do	1948	328	14	RG	46.0	22	1948	T,B, 54	Irr	Drilled to 328 ft. Casing: 328 ft, slotted from 213 to 242 ft, and 268 to 328 ft. Cemented. Irrigates 80 acres and sells water. Temp. 79° F. <u>3/</u>
*F-64	E. J. Johnson	O. N. Gilliland	1940	57	3	RG	51.0	12.5	Aug. 2, 1945	C,W	D	Casing: 57 ft. Sandpoint well. Temp. 76° F.
*F-65	L. A. Perkins	Waldrep & Hamilton	1944	136	1	RG	50.0	15	1944	C,W	D	Casing: 136 ft. Sandpoint well. Temp. 78° F.
F-66	Highland School	Peter Christensen	1940	305	--	RG	48.0	--	--	Cf,E 1/3	P	Reported water gravel 300 to 305 ft.
*F-67	M. T. Rodriguez	--	Old	70	1	RG	48.0	--	--	J,E, 1/4	D,S	Casing: 70 ft. Sandpoint well.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
F-68	T. Kawamura	Tom Wilkinson	1952	346	12	RG	52.0	26 29.7 17.6	May 1954 Sept. 12, 1957 Mar. 7, 1959	T,B, 55	Irr	Casing: 346 ft, slotted from 287 to 346 ft. 3-stage pump. Well was first drilled to 211 ft, but did not produce, deepened to 346 ft. Not cemented. <u>2/</u>
F-69	George Oyama	do	1952	235	12	RG	53.0	--	--	T,B, 65	Irr	Casing: 235 ft, slotted from 190 to 235 ft. 3-stage pump. Irrigates 110 acres.
*F-70	L. M. Mikklesen	--	Old	190	2	RG	50.0	30	1952	J,E, 1	D	Casing: 190 ft, open end. Temp. 78°F.
*F-71	do	A & T Drilling Co.	1948	180	8	RG	48.0	--	--	T,B, 55	Irr	Casing: 180 ft, slotted from 168 to 180 ft. 3-stage pump. Reported yield 800 gpm. Irrigates 100 acres. <u>2/</u>
F-72	Brown & Slaughter	Tom Wilkinson	1952	184	14	RG	52.0	--	--	T,B, 65	Irr	Casing: 14-in. to 110 ft, 12-in. to 184 ft, slotted from 110 to 184 ft. 3-stage pump. Irrigates 60 acres. <u>2/</u>
F-73	Rangerville School	Otto Walk	1939	160	1	RG	53.0	--	--	J,E	P	Casing: 160 ft. Sandpoint well.
*F-74	S. Oyama	Tom Wilkinson	1952	206	12	RG	55.0	18	May 1952	T,B, 145	Irr	Casing: 206 ft, slotted from 155 to 204 ft. 3-stage pump set at 120 ft. Irrigates 100 acres. Temp. 79°F. <u>2/</u>
*F-75	T. Date	do	1952	200	12	RG	52.0	--	--	T,B, 75	Irr	Casing: 200 ft, slotted from 140 to 200 ft. Irrigates approximately 100 acres. Temp. 79°F. <u>2/</u>
F-76	Kenneth Shimotsu	do	1952	208	12	RG	53.0	--	--	T,B, 145	Irr	Casing: 208 ft, slotted from 181 to 208 ft. 3-stage pump. Irrigates approximately 80 acres. <u>2/</u>
*F-77	do	do	1952	203	12	RG	50.0	24	May 1954	T,B, 145	Irr	Casing: 203 ft, slotted from 158 to 198 ft. Bottomed in clay. 3-stage pump. Measured yield 966 gpm. Irrigates 200 acres. Temp. 79°F.
*F-78	Louis Stanley	Henry Cleveland	1952	174	12	RG	43.0	27 26 27.4 15.1	May 1952 May 1954 Sept. 12, 1957 Mar. 2, 1959	T,E, 75	Irr	Casing: 174 ft, slotted from 161 to 174 ft. Measured yield 700 gpm. Drawdown 54.5 ft after 120 hours pumping. Irrigates 80 acres. <u>2/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <u>1/</u>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
F-79	Louis Stanley	Hugh Cole	1948	247	--	RG	43.0	7	1948	--	N	Irrigation test. Private analysis shows 1,140 ppm chloride at 241 ft; 750 ppm chloride at 164 ft. <u>3/</u>
*F-80	George Oyama	Tom Wilkinson	1952	201	12	RG	53.0	26.4	June 25, 1952	T,B, 145	Irr	Casing: 201 ft, slotted from 166 to 197 ft. 3-stage pump. Measured yield 994 ppm. Irrigates 60 acres. Temp. 78°F. <u>2/</u>
F-81	Herman Johnson	do	1952	194	12	RG	51.5	22.1	June 25, 1952	T,B, 65	Irr	Casing: 194 ft, slotted from 150 to 192 ft. 3-stage pump. Reported yield 800 gpm. Irrigates approximately 60 acres. <u>2/</u>
*F-82	T. J. Thomas	--	1935	25	24	RG	54.0	10.6	Aug. 2, 1945	H	D,S	Concrete casing. Temp. 77°F.
*F-83	Oscar Thiems	A & T Drilling Co.	1952	168	12	RG	51.0	27.6 15.8	Sept. 12, 1957 Mar. 2, 1959	T,E, 50	Irr	Casing: 168 ft, slotted from 158 to 168 ft. Cemented with 60 sacks of cement. Measured yield 886 gpm. Temp. 79°F. <u>2/</u>
F-84	Tom Casey	Henry Cleveland	1952	163	12	RG	28.0	6.9	June 23, 1952	--	N	Drilled to 206 ft. Casing: 163 ft, slotted from 130 to 160 ft, plugged at 163 ft. Not used. <u>3/</u>
F-85	Charles Barber	Tom Wilkinson	1952	332	--	--	41.5	--	--	--	N	Irrigation test. <u>2/</u>
F-86	Central Power & Light Co.	Virdeil Drilling Co.	1953	308	20	RG	38.0	--	--	T,E, 75	Ind	Cased to bottom. <u>3/</u>
F-87	City of Harlingen	A & T Drilling Co.	1953	238	--	--	42.0	--	--	--	N	Test for public supply. Reported unusable. <u>2/</u>
F-88	do	do	1953	240	--	--	40.0	--	--	--	N	do
F-89	Hygeia Milk Products	Tom Wilkinson	1953	746	--	--	40.5	--	--	--	N	Test for industrial supply. <u>2/ 3/</u>
F-90	J. R. Parmer	do	1953	175	12	RG	55.0	53	1953	T,B, 54	Irr	Cased to bottom. Slotted from 150 to 172 ft. 10-in., 3-stage pump set at 120 ft. Irrigates 120 acres.
F-91	do	Herman Hamilton	1952	154	1	RG	54.0	70	1953	J,E	D	Cased to bottom.
F-92	U. S. Air Force	Pursley Drilling Co.	1953	708	--	--	33.5	--	--	--	N	Test for air base supply. Reported unusable. <u>3/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) 1/	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
F-93	City of Harlingen	A & T Drilling Co.	1953	300	--	--	42.0	--	--	--	N	Test for public supply. Reported unusable. 3/
*F-94	City of San Benito	Virdell Drilling Co.	1953	204	24, 12	RG	34.0	47.0	Sept. 8, 1953	T,E, 75	P	Drilled to 228 ft. Cased to 204 ft. 24-in. casing to 140 ft, 12-in. casing from 140 to 204 ft. Slotted from 140 to 173 ft, and from 184 to 204 ft. 9-in. 5-stage pump set at 198 ft. Reported yield 1,200 gpm. City of San Benito well 2. Not F-94 in Rose (1954). 2/
*F-95	do	Henry Cleveland	1953	242	24, 12	RG	38.0	--	--	T,E, 50	P	Drilled to 275 ft. Cased to 242 ft. 24-in. casing to 130 ft, 12-in. casing from 130 to 242 ft. Slotted from 142 to 188 ft, and from 206 to 232 ft. 10-in. 5-stage pump set at 215 ft. City of San Benito well 3. 2/ 3/
F-96	San Benito unit 11 well 1	Superior Oil Co.	1954	10,629	--	--	--	--	--	--	--	Oil test. 3/
G-1	Las Yesenas School	Peter Christensen	--	175	--	--	15.0	--	--	--	N	Test. Salty.
*G-2	Heston & Callowsy	A & T Drilling Co.	1952	382	--	--	28.0	--	--	--	N	Irrigation test. San Jose Ranch. 3/
G-3	do	Adams Gardens Drilling Co.	1952	127	12	--	28.0	9	July 1952	T,G, 55	Irr	Casing: 127 ft, slotted from 119 to 127 ft. Reported yield 600 gpm. Mixes this water with drainage and river water.
G-4	John Walsdorf	Henry Crockett	1935	175	--	--	26.0	--	--	--	N	Test. Dry.
*G-5	August Prieffer	--	--	30	24	A	24.0	--	--	H	D	Dug.
G-6	Frank Russell	A & T Drilling Co.	1947	275	8	RG	40.0	10	Jan. 1952	--	N	Not in use. Drilled for use in swimming pool and lawn. 3/
G-7	Cleve Tandy	do	1952	50	--	--	35.0	--	--	--	N	Test for irrigation. Salty.
G-8	do	do	1952	40	--	--	32.0	--	--	--	N	do
G-9	H. W. Shuckman	do	1953	200	--	--	30.0	--	--	--	N	Test for irrigation. Reported unusable. 3/

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
H-1	Cramer-Thompson	A & T Drilling Co.	1952	1,999	--	--	19.0	--	--	--	N	Irrigation test. Salty. <u>3/</u>
H-2	Lon C. Hill	--	Old	20	2	A	10.0	--	--	--	N	Casing: 20 ft. Sandpoint well. Not in use.
H-3	Mrs. I. Y. Garcia	The Texas Co.	1950	9,828	--	--	6.0	--	--	--	--	Oil test. <u>3/</u>
H-4	Cage Bros. Co.	A & T Drilling Co.	1956	270	14	--	10.0	--	--	T,G	Ind	Drilled to 315 ft. Cased to 270 ft. Screen from 170 to 200 ft, from 210 to 230 ft, and from 250 to 270 ft. 12-in. 3-stage pump set at 140 ft. <u>3/</u>
*J-1	Santa Maria Independent School District	Carl Junker	1931	161	6	RG	66.0	22 38.4 17.9	1931 Sept. 11, 1957 Mar. 2, 1959	Cf,E, --	P	Casing: 161 ft, open end. Temp. 81°F.
J-2	J. C. Dunn	A & T Drilling Co.	1946	387	12	RG	59.0	19.7	Jan. 15, 1952	T	Irr	Not used for past 3 years. <u>3/</u>
*J-3	H. C. Lewis	do	1950	159	12	RG	58.0	18	1950	T,G, 75	Irr	Casing: 159 ft, slotted from 140 to 157 ft. Reported yield 1,200 gpm. Irrigates 40 acres. Temp. 80°F.
*J-4	do	do	1951	167	12	RG	60.0	27 16.4	May 1954 Mar. 2, 1959	T,B, 55	Irr	Casing: 167 ft, slotted from 158 to 166 ft. 3-stage pump set at 120 ft. Cemented. Irrigates 60 acres. Temp. 79°F. <u>2/</u>
*J-5	John Benson	Tom Wilkinson	1949	174	12	RG	60.0	27.7	Sept. 2, 1952	T,B, 90	Irr	Casing: 174 ft, slotted from 152 to 170 ft. Not cemented. Measured yield 1,008 gpm. Irrigates 140 acres. Temp. 78°F.
J-6	Reyes Rodriguez	Bert Killinger	1948	170	12	RG	57.0	--	--	T,B, 40	Irr	Casing: 170 ft, slotted from 110 to 170 ft. 3-stage pump. Irrigates 80 acres.
*J-7	Cook & Hervey	Henry Cleveland	1952	180	20	RG	60.0	--	--	T,B, 60	Irr	Casing: 180 ft, slotted from 150 to 180 ft. Measured yield 1,199 gpm. Temp. 79°F.
*J-8	Leo Smith	A & T Drilling Co.	1952	172	12	RG	54.0	20	Aug. 1952	T,B, 145	Irr	Casing: 172 ft, slotted from 162 to 171 ft. Cemented with 60 sacks of cement. Irrigates 48 acres, and sells water. Temp. 77½°F. <u>2/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
J-9	E. C. Weber	Gene Liberty	1952	160	12	RG	57.0	--	--	T,B, 65	Irr	Casing: 160 ft, slotted from 148 to 160 ft. Reported large gravel 148 to 160 ft. Reported yield 1,000 gpm. <u>2/</u>
*J-10	H. C. Lewis	A & T Drilling Co.	1951	165	12	RG	62.0	18	1951	T,B, 55	Irr	Casing: 165 ft, slotted from 142 to 164 ft. Cemented. Reported yield 800 gpm. Irrigates 60 acres. Temp. 78°F.
*J-11	L. A. Kerr	Carl Junker	1942	156	2	RG	65.0	15.7	July 9, 1945	J,E	D,S	Casing: 156 ft. Reported gravel from 153 to 156 ft. Temp. 78°F.
*J-12	J. C. Dunn	Bob Johnson	1946	180	8	RG	65.0	24.0 21 35.0 14.2	June 5, 1952 Apr. 1954 Sept. 11, 1957 Mar. 2, 1959	T,E, 20	Irr	Casing: 180 ft, slotted from 140 to 180 ft. 2-stage pump set at 100 ft. Measured yield 731 gpm. Drawdown 44 ft after 12 hours pumping. Irrigates 165 acres.
*J-13	do	--	--	10	60	RG	64.0	7.0	July 27, 1945	H	D	Dug.
*J-14	Mrs. M. A. Reed	Otto Walk	1945	145	4	RG	67.0	16.6	July 2, 1943	J,E, 1/4	D,S	Casing: 154 ft, open end. <u>2/</u>
*J-15	Vick Peters	do	1945	135	2	RG	65.0	--	--	C,W	S	Casing: 135 ft, slotted from 132 to 135 ft. Temp. 76°F. <u>2/</u>
*J-16	Dale Mock	M. A. Parker	1952	172	10	RG	63.0	12	1952	T,B, 72	Irr	Casing: 172 ft, slotted from 145 to 170 ft. Cemented. 5-stage pump set at 120 ft. Reported yield 500 gpm. Irrigates 60 acres. Temp. 78°F.
*J-17	A. E. Matz	Adams Gardens Drilling Co.	1952	151	12	RG	65.0	21.3	Aug. 28, 1952	T,G, 55	Irr	Casing: 151 ft, slotted from 137 to 149 ft. Reported yield 900 gpm. Irrigates 106 acres. Temp. 79°F. <u>3/</u>
*J-18	John Benson	Tom Wilkinson	1952	187	16	RG	65.0	--	--	T,B, 75	Irr	Casing: 187 ft, slotted from 152 to 187 ft. Measured yield 905 gpm. Irrigates 80 acres. Temp. 78°F. <u>2/</u>
J-19	Jesus Garcia	do	1952	185	8	RG	65.0	24	May 1954	T,G, 55	Irr	Casing: 185 ft, slotted from 152 to 185 ft. Not cemented. Irrigates 60 acres. <u>2/</u>
*J-20	F. J. Anderson	O. N. Gilliland	1941	110	1	RG	58.0	--	--	C,W	D	Casing: 110 ft, open end.
*J-21	J. Tanamachi	--	1940	139	2	RG	57.0	20	1940	C,W	D,S	Casing: 139 ft, open end.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\frac{1}{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
J-22	J. E. Gerusa	A & T Drilling Co.	1952	161	12	RG	59.0	--	--	T,B, 55	Irr	Casing: 161 ft, slotted from 150 to 160 ft. Cemented with 75 sacks of cement. 3-stage pump set at 120 ft. Irrigates 80 acres. $\frac{2}{1}$
J-23	Juan B. Garcia	Tom Wilkinson	1952	200	12	RG	58.0	--	--	T,B, 145	Irr	Casing: 200 ft, slotted from 140 to 198 ft. Not cemented. Irrigates 60 acres. $\frac{2}{1}$
*J-24	San Benito Water District	--	1935	160	2	RG	58.0	--	--	C,G	D	Casing: 160 ft. Sandpoint well.
J-25	Santiago Gomez	Tom Wilkinson	1952	201	12	RG	65.0	24.2	Jan. 5, 1953	T,G, 55	Irr	Casing: 201 ft, slotted from 151 to 201 ft. 3-stage pump. Not cemented. Irrigates 80 to 100 acres. $\frac{2}{1}$
J-26	Alberto Fernandez	A & T Drilling Co.	1952	163	14	RG	70.0	--	--	T,B	Irr	Cased to bottom. Slotted from 120 to 163 ft. 12-in. 4-stage pump set at 120 ft.
J-27	F. J. Anderson	do	1957	167	16	RG	57.5	--	--	T,E, 75	Irr	Cased to bottom. Slotted from 160 to 166 ft. 14-in. 2-stage pump set at 140 ft. Irrigates 80 acres.
J-28	do	do	1957	160	16	RG	57.0	--	--	T,E, 75	Irr	Cased to bottom. Slotted from 153 to 169 ft. 14-in. 2-stage pump set at 140 ft. Irrigates 100 acres.
J-29	do	do	1957	178	16	RG	65.0	--	--	T,E, 75	Irr	Cased to bottom. Slotted from 171 to 177 ft. 14-in. 2-stage pump set at 140 ft.
*K-1	Emil Kaufman	Waldrep & Morrow	1944	151	3	RG	51.0	6	1944	J,E, 1/4	D,S	Casing: 151 ft, open end. Reported gravel from 145 to 151 ft. Temp. 77 $\frac{1}{2}$ °F.
*K-2	Cecil Graham	O. N. Gilliland	1945	150	3	RG	45.0	--	--	J,E, 1/4	D,S	Casing: 150 ft. Sandpoint well.
*K-3	L. C. Poth	A & T Drilling Co.	1948	290	14	RG	47.5	18	1948	T,G, 55	Irr	Drilled to 474 ft. Casing: 290 ft, slotted from 155 to 290 ft. Cemented. Irrigated approximately 200 acres. Well cratered in 1952 - dropped casing 9 ft. Abandoned. Temp. 78°F. $\frac{3}{1}$
*K-4	F. H. Wilson	Hugh Cole	1949	177	2	RG	47.0	13	1949	J,E, 1 $\frac{1}{2}$	D	Casing: 177 ft, slotted from 165 to 177 ft. Temp. 78°F.

\* See footnotes at end of table.



Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <u>1/</u>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*K-5	F. H. Wilson	A & T Drilling Co.	1952	185	12	RG	47.9	20	1952	T, B, 65	Irr	Casing: 185 ft, slotted from 176 to 184 ft. 3-stage, 10-in. bowl pump set at 120 ft. Irrigates 79 acres. Temp. 78°F. <u>2/</u>
*K-6	Pilar Cabrera	Henry Cleveland	1952	303	20	RG	49.0	--	--	T, B, 97	Irr	Casing: 303 ft, slotted from 160 to 303 ft. 3-stage, 14-in. bowl pump set at 150 ft. Gravel-packed. Irrigates 320 acres. Temp. 78°F. <u>3/</u>
*K-7	Barreda Estate	Tom Wilkinson	1952	235	12	RG	52.0	27.0	Sept. 2, 1952	T, B, 70	Irr	Casing: 235 ft, slotted from 200 to 235 ft. Reported sand and gravel 175 to 235 ft. Irrigates approximately 80 acres.
*K-8	J. G. Ballinger	A & T Drilling Co.	1952	204	14	RG	34.0	24 12.3	May Mar. 2, 1959	T, B, 75	Irr	Casing: 204 ft, slotted from 160 to 204 ft. Measured yield 2,097 gpm. Irrigates 200 to 300 acres. Temp. 78°F. <u>2/</u>
*K-9	Reynaldo Santiso	Tom Wilkinson	1949	204	14	RG	34.5	--	--	T, B, 159	Irr	Drilled to 207 ft. Casing: 204 ft, slotted from 158 to 200 ft. 3-stage pump. Not cemented. Measured yield 900 gpm. Irrigates approximately 60 acres. Temp. 79°F.
*K-10	G. B. Smith	A & T Drilling Co.	1952	174	16	RG	47.0	20.0 25	May 5, 1952 May 1954	T, B, 50	Irr	Casing: 174 ft, slotted from 150 to 171 ft. Cemented. 3-stage pump set at 120 ft. Reported yield 950 gpm. Irrigates 296 acres. Temp. 78°F. <u>2/</u>
*K-11	O. W. Tucker	Tom Wilkinson	1952	200	12	RG	44.5	18.9 24.7	Sept. 4, 1952 Sept. 12, 1957	T, B, 60	Irr	Casing: 200 ft, slotted from 140 to 198 ft. Measured yield 770 gpm. Temp. 78.8°F. <u>2/</u>
*K-12	Bert Crawford	O. B. Martin	1952	184	12	RG	45.0	--	--	T, B, 65	Irr	Casing: 184 ft, slotted from 145 to 178 ft. Reported large gravel 145 to 178 ft. Irrigates 313 acres.
K-13	Mrs. -- Coakley	Tom Wilkinson	1952	199	12	RG	45.0	14.1 15 6.1	Jan. 5, 1953 May 1954 Mar. 2, 1959	--	Irr	Casing: 199 ft, slotted from 150 to 197 ft. Will irrigate 200 acres. <u>2/</u>
K-14	M. de los Santos	do	1952	184	12	RG	48.5	--	--	T, B, 65	Irr	Casing: 184 ft, slotted from 145 to 182 ft. Irrigates 100 acres. <u>2/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water Level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
K-15	Tom Tanamachi	Gene Liberty	1952	160	12	RG	55.0	26 16.6	May 1954 Mar. 2, 1959	T,B, 145	Irr	Casing: 160 ft, slotted from 142 to 160 ft. Cemented. Reported yield 900 gpm. Irrigates approximately 80 acres.
*K-16	Ricardo Aguilar	Tom Wilkinson	1952	174	12	RG	55.0	--	--	T,G, 50	Irr	Casing: 174 ft, slotted from 149 to 172 ft. Measured yield 560 gpm. Irrigates 50 acres. Temp. 79°F.
K-17	Steve Galloway	Gene Liberty	1952	160	12	RG	55.0	18	Oct. 1952	T,G, 50	Irr	Casing: 160 ft, slotted from 142 to 160 ft. Estimated yield 650 gpm. Irrigates 150 to 200 acres.
*K-18	Mrs. A. D. Dickinson	A & T Drilling Co.	1952	173	12	RG	57.5	24	May 1954	T,B, 72	Irr	Casing: 173 ft, slotted from 164 to 172 ft. Cemented with 60 sacks of cement. 3-stage pump set at 120 ft. Measured yield 868 gpm. Irrigates 100 acres. Temp. 79°F. <sup>2/</sup>
*K-19	Eugene Kaufman	--	1925	140	3	RG	50.0	10.0	Aug. 3, 1945	J,E	D,S	Casing: 140 ft.
*K-20	W. H. Glidewell	O. N. Gilliland	1944	171	1	RG	56.0	14	1944	C,W	D,S	Casing: 171 ft. Sandpoint well.
K-21	Jack Garrett	A & T Drilling Co.	1952	306	--	RG	47.0	--	--	--	N	Irrigation test. <sup>3/</sup>
*K-22	Landrum School	Waldrep & Morrow	1940	135	1	RG	51.0	--	--	J,E	P	Casing: 135 ft.
*K-23	La Paloma School	--	1939	150	2	RG	46.0	--	--	J,E	P	Casing: 150 ft. Sandpoint well.
*K-24	H. D. Smith	O. N. Gilliland	1944	170	1	RG	48.0	--	--	C,H	D	Temp. 80°F.
K-25	Jose Escamilla	Henry Cleveland	1952	295	20	RG	49.0	--	--	T,B, 85	Irr	Casing: 295 ft, slotted from 164 to 295 ft. Irrigates 200 acres. <sup>3/</sup>
K-26	M. F. Martina	--	1945	40	3	A	49.0	--	--	H	N	Salty.
*K-27	Carlos Zepeda	Henry Cleveland	1952	275	12	RG	48.0	--	--	T,E, 50	Irr	Casing: 275 ft, slotted from 173 to 274 ft. Cemented. Reported yield 850 gpm. Irrigates 120 acres. Temp. 78°F. <sup>3/</sup>
*K-28	Encantada School	--	1934	150	--	RG	47.0	18	1934	J,E	P	
*K-29	Valley Christian Encampment	A & T Drilling Co.	--	270	8	RG	34.5	--	--	T,E, 15	P,D	Casing: 270 ft, screened at 200 to 270 ft. Temp. 78°F.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\frac{1}{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
K-30	-- McCamy	A & T Drilling Co.	1946	280	12	RG	39.0	--	--	T,E, 25	Irr	Casing: 280 ft, slotted from 260 to 280 ft. 5-stage pump. Irrigates 70 acres.
*K-31	Ben Benson	Tom Wilkinson	1950	290	14	RG	39.0	18 26 25.6 16.1	June 1952 Apr. 1954 Sept. 12, 1957 Mar. 2, 1959	T,B, 55	Irr	Casing: 290 ft, slotted from 278 to 290 ft. Measured yield 847 gpm. Irrigates approximately 200 acres. Temp. 78°F.
*K-32	L. T. Boswell	Fred Fielder	1948	279	8	RG	37.0	--	--	--	N	Abandoned irrigation well. <u>2/</u>
*K-33	Ben Benson	A & T Drilling Co.	1950	282	14	RG	40.0	20	1950	T,B	Irr	Drilled to 300 ft. Casing: 284 ft, slotted from 227 to 282 ft. Cemented. 3-stage pump. Measured yield 868 gpm. Irrigates approximately 100 acres. Temp. 78°F. <u>2/</u>
*K-34	J. T. Canales	Fred Fielder	1949	302	10	RG	45.0	--	--	T,B, 65	Irr	Casing: 194 ft of 10-in., 8-in. slotted; casing from 194 to 302 ft. Cemented. Irrigates 40 acres. <u>2/</u>
*K-35	do	Luis Tamez	1949	250	10	RG	43.0	--	--	T,B, 65	Irr	Casing: 154 ft of 10-in., 8-in. slotted casing from 154 to 250 ft. 3-stage pump set at 100 ft. Irrigates 40 acres.
*K-36	L. T. Boswell	Fred Fielder	1948	286	8	RG	42.0	--	--	T,-	N	Casing: 160 ft of 8-in., 6-in. from 160 to 286 ft. Slotted from 160 to 190 ft. and 237 to 286 ft. Abandoned.
*K-37	do	A & T Drilling Co.	1947	345	12	RG	43.0	--	--	T,B, 145	Irr	Irrigates approximately 100 acres. Temp. 79°F. <u>3/</u>
*K-38	Pilar Cabrera	Tom Wilkinson	1948	286	16	RG	42.0	23.7	June 26, 1952	T,B, 135	Irr	Casing: 286 ft, slotted from 230 to 286 ft. Reported yield 900 gpm. Irrigates 186 acres. Temp. 80°F.
K-39	Mrs. Raul Tijerina	Luis Tamez	1949	310	10	RG	44.0	--	--	T,B	Irr	Casing: 194 ft of 10-in., 8-in. casing 194 to 310 ft. Slotted from 194 to 310 ft. Irrigates 40 to 60 acres.
*K-40	J. T. Canales	do	1949	275	10	RG	45.0	--	--	T,B, 65	Irr	Casing: 175 ft of 10-in., 8-in. casing 175 to 274 ft. Slotted from 175 to 274 ft. Cemented with 75 sacks of cement. 3-stage pump set at 110 ft. Irrigates 40 acres.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\frac{1}{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
*K-41	Carlos Watson	A & T Drilling Co.	1951	276	12	RG	41.0	24.5 30.6 15.1	Aug. 20, 1952 Sept. 12, 1957 Mar. 2, 1959	T,B, 65	Irr	Casing: 274 ft, slotted from 248 to 273 ft. Estimated yield 900 gpm. Temp. 78°F. $\frac{2}{2}$
*K-42	do	Raul Tijerina	1950	220	10	RG	40.0	21.0	Aug. 20, 1952	T,B, 60	Irr	Casing: 220 ft, slotted from 200 to 220 ft. Irrigates 315 acres. Temp. 79°F.
*K-43	Raul Lopez	Tom Wilkinson	1950	275	14	RG	39.5	--	--	T,B	Irr	Casing: 275 ft, slotted from 190 to 220 ft, and 230 to 273 ft. Reported yield 1,000 gpm. Irrigates 150 acres. Temp. 79°F.
*K-44	Mrs. J. T. Canales	Luis Tamez	1949	240	10	RG	44.0	--	--	T,B	Irr	Casing: 184 ft of 10-in., 8-in. casing 184 to 239 ft. Slotted from 184 to 239 ft. Cemented with 75 sacks of cement. Irrigates 40 acres.
K-45	Raul Lopez	A & T Drilling Co.	1947	268	8	RG	39.0	22 22	Apr. 1947 1954	T,B, 65	Irr	Casing: 265 ft. Screens at 190 to 230 ft, and 240 to 265 ft. 3-stage pump set at 120 ft. Irrigates 100 acres. $\frac{2}{2}$
K-46	Charles Russell	Virdell Drilling Co.	1952	237	12	RG	42.5	--	--	T,B, 145	N	Casing: 237 ft, slotted from 195 to 235 ft. Well pumped 650 yards of sand by measurement. Cratered and abandoned. $\frac{2}{2}$
*K-47	J. T. Canales	Fred Fielder	1950	368	8	RG	44.0	--	--	T,B	Irr	Casing: 196 ft of 8-in., 5-in. casing from 196 to 328 ft. Slotted from 196 to 230 ft, and 274 to 328 ft. Irrigates 40 acres. $\frac{2}{2}$
*K-48	Villa Nueva School	--	1939	192	1	RG	44.0	18	1939	J,E	P	Water reported in fine-grained sand.
*K-49	Jose Vesterro	O. N. Gilliland	1945	206	1	RG	44.0	--	--	C,W	D	Casing: 206 ft, open end. Temp. 79°F.
*K-50	Jesus Costellano	Raul Tijerina	1949	280	8	RG	40.5	--	--	T,E, 40	Irr	Casing: 280 ft, slotted from 240 to 280 ft. Reported yield 600 gpm. Irrigates approximately 214 acres. Temp. 80°F.
K-51	Lee Joe Wood	Henry Cleveland	1952	260	16	RG	51.0	33	Apr. 1954	T,-	Irr	Cased to bottom. Slotted from 170 to 260 ft. $\frac{2}{2}$
K-52	-- Furukawa	A & T Drilling Co.	1953	190	12	RG	48.0	32 33.6 19.0	May 1954 Sept. 30, 1957 Mar. 2, 1959	T,B	Irr	Cased to bottom. Slotted from 181 to 189 ft. $\frac{2}{2}$

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <u>1</u>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
K-53	Oscar Thiems	A & T Drilling Co.	1956	176	14	RG	49.5	44	1956	T,B, 50	Irr	Cased to bottom. Slotted from 165 to 176 ft. 12-in. 3-stage pump set at 140 ft. Measured yield 1,100 gpm. Drawdown 51 ft. <u>2</u>
K-54	E. A. Brady	do	1953	186	16	RG	35.0	28.2	July 3, 1957	T,B, 75	Irr	Cased to bottom. Slotted from 176 to 186 ft. 2-stage pump set at 140 ft. Irrigates 200 acres. <u>3</u>
K-55	Lyle & Smith	do	1953	191	16	RG	38.0	29.5	do	T,E, 75	Irr	Drilled to 360 ft. Cased to bottom. Slotted from 180 to 191 ft. <u>3</u>
K-56	Sams-Porter Corp.	do	1953	250	16	RG	45.0	31.3	do	T,E, 75	Irr	Drilled to 271 ft. Cased to 250 ft. Slotted from 240 to 250 ft. Pump set at 140 ft. <u>3</u>
K-57	Rice Tract Community well 1	Russell Plantation	1955	9,552	--	--	--	--	--	--	--	Oil test. <u>3</u>
L-1	-- Hershberger	O. N. Gilliland	1943	108	10	RG	39.0	21.1	Aug. 10, 1945	--	N	Not used.
*L-2	F. Y. Wingate	do	1943	164	6	RG	38.0	34.9	do	C,E, 1/3	D, Irr	Casing: 164 ft, slotted from 160 to 164 ft. Water level reported 15 ft when drilled. Drawdown 15 ft after 10 minutes pumping 10 gpm.
*L-3	Continental Pipeline Co.	--	1937	65	1	RG	33.0	--	--	J,E	D	Casing: 65 ft. Sandpoint well.
*L-4	L. F. Wilkinson	Tom Wilkinson	1949	170	12	RG	33.0	14.4	July 22, 1952	T,G, 55	Irr	Casing: 170 ft. Commercial analysis reported 4,480 ppm total dissolved solids. Irrigates approximately 90 acres.
*L-5	Hall Palmer	Adams Gardens Drilling Co.	1952	200	--	A	34.0	22	May 1954	T,B, 75	Irr	Drilled to 268 ft. Casing: 196 ft, slotted from 178 to 196 ft. Plugged at 200 ft. Cemented with 100 sacks of cement. 3-stage pump set at 130 ft. <u>3</u>
L-6	L. F. Wilkinson	--	Old	40	2	RG	31.0	--	--	C,W	S	Casing: 40 ft. Sandpoint well. Reported water salty.
*L-7	John Prentiss	Tom Wilkinson	1952	173	4	RG	36.5	20	1952	J,G, 40	Irr	Casing: 170 ft, slotted from 158 to 170 ft. Reported yield 350 gpm. Irrigates 20 acres. Temp. 79 F.

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <u>1/</u>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
L-8	L. F. Wilkinson	Tom Wilkinson	1949	240	12	RG	30.0	--	--	--	N	Casing: 240 ft. Cemented. Reported never able to pump enough water for irrigation purposes.
*L-9	do	Otto Walk	1950	300	2	RG	30.0	8	1950	J,E, 1 1/2	D,S	Casing: 300 ft. Sandpoint well. Temp. 79°F.
L-10	A. H. Fernandez	Adams Gardens Drilling Co.	1952	186	12	RG	35.0	--	--	T,B, 65	N	Drilled to 205 ft. Casing: 186 ft, slotted from 176 to 185 ft. Well failed to produce after 48 hours pumping and acidation. Abandoned. <u>3/</u>
*L-11	do	Tom Wilkinson	1952	302	12	RG	35.0	24	May 1954	T,B, 65	Irr	Casing: 302 ft, slotted from 244 to 299 ft. Measured yield 696 gpm. Irrigates 200 to 300 acres. Temp. 79°F. <u>2/</u>
L-12	Pillar Cabrera	do	1952	203	12	RG	35.0	18.9	Oct. 14, 1952	T,B, 65	Irr	Casing: 203 ft, slotted from 175 to 203 ft. Irrigates 70 acres.
*L-13	Balbino Rego	do	1952	311	16	RG	35.0	23.4	June 17, 1952	T,B, 159	Irr	Casing: 311 ft, slotted from 265 to 311 ft. Yield 1,045 gpm. Irrigates 490 acres. Temp. 78°F. <u>2/</u>
*L-14	R. Grand-Lienard	A & T Drilling Co.	1951	280	12	RG	38.0	--	--	T,E, 50	Irr	Drilled to 280 ft. Casing: 280 ft, slotted from 203 to 280 ft. Reported yield 700 gpm. Irrigates 80 to 100 acres. <u>3/</u>
*L-15	R. O. Thuem	Tom Wilkinson	1949	296	12	RG	39.0	--	--	T,B, 159	Irr	Casing: 296 ft, slotted from 260 to 294 ft. Irrigates 110 acres. Temp. 80°F.
L-16	A. H. Fernandez	Adams Gardens Drilling Co.	1952	174	12	RG	35.0	24.0	July 8, 1952	T,E, 75	N	Casing: 174 ft, slotted from 160 to 174 ft. Pumped 30 days; water became too salty for irrigation use. <u>3/</u>
L-17	Ricos Valentine	--	--	40	2	A	17.0	--	--	C,W	S	Very salty.
L-18	Jarge Velez	A & T Drilling Co.	1948	598	--	--	20.0	--	--	--	N	Irrigation test. <u>3/</u>
*L-19	E. E. Wilson	--	1944	14	--	RG	30.0	--	--	J,E	D	Casing: 14 ft.
*L-20	A. H. Fernandez	A & T Drilling Co.	1951	230	14	RG	38.0	20	1951	T,B	Irr	Casing: 230 ft, slotted from 208 to 228 ft. Cemented. Reported yield 1,100 gpm. Irrigates approximately 300 acres. <u>2/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
L-21	A. H. Fernandez	A & T Drilling Co.	1951	305	--	--	41.0	--	--	--	N	Irrigation test. <u>2/</u>
L-22	Mrs. Alice Mayer	Tom Wilkinson	1951	245	12	RG	38.0	17.2	Aug. 19, 1952	T,B, 97	Irr	Casing: 245 ft, slotted from 210 to 245 ft. Irrigates 205 acres. Reported 760 ppm total dissolved solids. <u>2/</u>
*L-23	Geo. H. Bingley	A & T Drilling Co.	1952	190	12	RG	33.0	12.5	Aug. 28, 1952	T,B, 145	Irr	Casing: 190 ft, slotted from 182 to 189 ft. Cemented with 75 sacks of cement. Irrigates approximately 100 acres. Temp. 79°F. <u>2/</u>
*L-24	M. G. Ortiz	--	1929	165	3	RG	22.0	--	--	J,E	D,S	Casing: 155 ft, open end. Temp. 78°F.
*L-25	H. B. Fleming	O. N. Gilliland	1945	204	4	RG	29.0	8.8 20	Sept. 1945 Aug. 1954	J,E	D,S	Casing: 204 ft, open end. <u>2/</u>
*L-26	B. Castro	do	1943	212	1	RG	28.0	--	--	C,W	D	Casing: 212 ft, open end.
L-27	-- Fleming	Ted Pursley	1946	211	10	RG	28.0	--	--	--	N	Casing: 211 ft, slotted from 198 to 211 ft. Drilled for irrigation, never used. <u>2/</u>
L-28	P. J. Davis	The Texas Co.	1950	12,053	--	--	33.0	16	Apr. 1954	--	--	Oil test. <u>3/</u>
*L-29	City of Brownsville	Texas Water Supply Corp.	1952	200	20	RG	35.0	14	July 1952	T,E, 75	P	Casing: 170 ft of 20-in. 12-in. screen from 170 to 198 ft. Gravel-walled, and cemented reported yield 900 gpm. <u>3/</u>
*L-30	do	do	1952	203	20	RG	34.0	14.3	Oct. 23, 1952	T,E, 75	P	Casing: 150 ft of 2-in., 12-in. screen at 106 to 132 ft; 140 to 150 ft; 168 to 196 ft. Reported yield 1,000 gpm. <u>3/</u>
*L-31	A. Longoria	A. Longoria	1940	40	1	RG	37.0	--	--	C,W	S	Casing: 40 ft, open end. Water in sand and gravel.
L-32	City of Brownsville	Texas Water Supply Corp.	1952	503	--	--	38.0	--	--	--	N	Public supply test. <u>2/ 3/</u>
*L-33	do	Virdell Drilling Co.	1953	194	12	RG	33.0	--	--	T,E, 75	P	Cased to bottom. Slotted from 175 to 190 ft. 4-stage pump set at 160 ft. Reported yield 900 gpm. City of Brownsville well 3. Temp. 81°F. <u>2/3/</u>

\* See footnotes at end of table.

Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) $\frac{1}{2}$	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
L-34	City of Brownsville	Virdell Drilling Co.	1953	193	12	RG	33.0	21.8 18.2 10.7	Sept.30, 1953 Sept.13, 1957 Mar. 2, 1959	T,E, 75	P	Cased to bottom. Slotted from 175 ft to 190 ft. 4-stage pump set at 160 ft. Reported yield 800 gpm. City of Brownsville well 4. $\frac{2}{3}$
*L-35	do	do	1953	197	12	RG	33.5	20.6	Sept.30, 1953	T,E, 75	P	Cased to bottom. Slotted from 182 to 197 ft. 4-stage pump set at 160 ft. Reported yield 1,000 gpm. City of Brownsville well 5. Temp. 81°F. $\frac{2}{3}$
*L-36	do	do	1953	203	12	RG	33.5	21.1	Sept.30, 1953	T,E, 75	P	Cased to bottom. Slotted from 188 to 203 ft. 4-stage pump set at 160 ft. Reported yield 1,100 gpm. City of Brownsville well 6. $\frac{2}{3}$
L-37	do	do	1953	198	12	RG	34.0	22.5 18.2	Sept.30, 1953 Sept.11, 1957	T,E, 75	P	Cased to bottom. Slotted from 183 to 198 ft. 4-stage pump set at 160 ft. Reported yield 800 gpm. City of Brownsville well 7. $\frac{2}{3}$
*L-38	do	do	1953	200	12	RG	34.0	22.4 16.9 10.0	Sept.30, 1953 Sept.11, 1957 Mar. 2, 1959	T,E, 75	P	Cased to bottom. Slotted from 185 to 200 ft. 4-stage pump set at 160 ft. Reported yield 900 gpm. City of Brownsville well 8. $\frac{3}{4}$
L-39	Porter & Wentz	A & T Drilling Co.	1953	318	--	--	32.0	--	--	--	N	Test for irrigation. $\frac{3}{4}$
L-40	do	do	1957	211	16	RG	31.0	--	--	T,E, 75	Irr	Cased to bottom. Slotted from 203 to 211 ft. 12-in. 3-stage pump set at 140 ft. Irrigates 200 acres. Not L-40 in Rose (1954) report. $\frac{3}{4}$
L-41	do	do	1957	225	16	RG	32.0	--	--	T,E, 75	Irr	Cased to bottom. Slotted from 216 to 224 ft. 12-in. 3-stage pump set at 140 ft. Irrigates 200 acres. Not L-41 in Rose (1954) report.
L-42	Floyd Hoel	Tom Wilkinson	1953	260	12	RG	28.0	16	Apr. 1954	T	Irr	Cased to bottom. Slotted from 215 to 260 ft.
M-1	G. Newberry	Pure Oil Co.	1939	8,160	--	--	5.0	--	--	--	--	Oil test. $\frac{3}{4}$
N-1	do	do	1942	1,880	--	--	6.0	--	--	--	--	do
*N-2	R. E. McCaslin	R. E. McCaslin	1948	5	24	A?	9.0	3.0	Jan. 7, 1952	H	D	Dug. Casing: 5 ft wood. Water from windblown sand dunes. Yield approximately 10 gph.

\* See footnotes at end of table.



Table 4.--Records of wells in Cameron County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Altitude of land surface (ft.) <sup>1/</sup>	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of measurement			
N-3	Holmes Drilling Co.	Ted Pursley	1951	412	--	--	2.0	--	--	--	N	Test for oil rig boiler water. <sup>2/</sup>
N-4	Padre Island Development Co.	A & T Drilling Co.	1953	452	--	--	6.0	--	--	--	N	Test for public supply. <sup>3/</sup>
N-5	All America Cables & Radio Inc. well 1	Magnolia Petroleum Co.	1955	7,915	--	--	--	--	--	--	--	Oil test. <sup>3/</sup>
P-1	City of Brownsville	Texas Water Supply Corp.	1952	300	--	--	--	--	--	--	N	Public supply test. <sup>3/</sup>

<sup>1/</sup> Altitude estimated from U. S. Geological Survey topographic maps, contour interval 1 foot.

<sup>2/</sup> See table 5 for drillers logs of wells in Cameron County, Texas.

<sup>3/</sup> Electric log in files of Texas Board of Water Engineers.

<sup>4/</sup> See table 6 for water levels in wells in Cameron County, Texas.

\* See table 7 for analyses of water from wells in Cameron County, Texas.

Table 4.--Records of wells in Hidalgo County, Texas

All wells are drilled unless otherwise noted in remarks.

Water level : Reported water levels given in feet, measured water levels given in feet and tenths.

Method of lift and type of power : A, airlift; B, butane; C, cylinder; Cf, centrifugal; E, electric; G, gasoline or Diesel; H, hand; J, jet; Ng, Natural gas; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, none; P, public supply; RR, railroad; S, stock.

Water-bearing unit : G, Goliad sand; GL, Goliad sand and Lissie formation, undifferentiated; LF, Linn Paysville ground-water reservoir; MB, Mercedes Sebastian, shallow ground-water reservoir aquifer; RG, Lower Rio Grande ground-water reservoir.

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
A-1	3 <sup>1</sup> / <sub>2</sub>	A. C. Jones	--	--	150	6	G	--	--	C,W	S	Salado shallow well.
A-2	2 <sup>1</sup> / <sub>2</sub>	do	--	--	350	4	G	19.8	May 18, 1933	C,W	S	Salado deep well. Temp. 85°F.
A-3	1 <sup>1</sup> / <sub>2</sub>	do	--	--	150	4	G	41.1	do	C,W	S	Milpas well. Reported water salty.
A-4	4 <sup>1</sup> / <sub>2</sub>	L. J. Lipps	--	--	80	5	G	--	--	C,W	S	Encalmada well.
*A-5	36 <sup>1</sup> / <sub>2</sub>	do	--	--	450	4	G	--	--	C,W	S	Temp. 83°F.
*A-6	38 <sup>1</sup> / <sub>2</sub>	do	--	--	535	8	G	20.5	Apr. 21, 1933	C,W	S	Muertow well.
*A-7	37 <sup>1</sup> / <sub>2</sub>	do	--	--	648	4	G	--	--	C,W	S	Aqua Dulce well. Water from sandstone. Temp. 85°F.
*A-8	6 <sup>1</sup> / <sub>2</sub>	do	--	--	80	4	G	--	--	C,W	S	Numero Dos well.
A-9	33 <sup>1</sup> / <sub>2</sub>	A. C. Jones	--	--	150	5	G	67.2	May 18, 1933	C,W	S	do.
A-10	32 <sup>1</sup> / <sub>2</sub>	do	---	--	150	5	G	58.1	do	C,W	S	Cristalinos well.
A-11	30 <sup>1</sup> / <sub>2</sub>	H. B. Hargrove	H. B. Hargrove	1928	85	3	G	75	July 1933	C,W	S	North well. Reported water salty.
A-12	29 <sup>1</sup> / <sub>2</sub>	do	do	1926	85	4	G	68	do	C,W	S	South well. Reported yield 4 gpm.
A-13	31 <sup>1</sup> / <sub>2</sub>	do	do	1930	96	4	G	71	do	C,W	S	
A-14	548 <sup>1</sup> / <sub>2</sub> B-1 <sup>2</sup> / <sub>2</sub>	--	Schlumberger Co.	--	2,000	--	G	--	--	--	N	Core hole. <u>6</u> /
A-15	27 <sup>1</sup> / <sub>2</sub>	Pedro Valdez	Pedro Valdez	1919	103	6	G	58	July 1933	C,W	S	Cased to 14 ft. Water from sandy caliche.
A-16	28 <sup>1</sup> / <sub>2</sub>	do	do	1926	66	6	G	56	do	H	D,S	Cased to 14 ft. Reported water salty.
*A-17	549 <sup>1</sup> / <sub>2</sub> B-2 <sup>2</sup> / <sub>2</sub>	McAllen Ranch	E. J. Rupp	1938	648	5	G	+	--	Flows	S	Cased to bottom. <u>6</u> /

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of Measurement			
A-18	Mrs. M. M. Fairbanks	--	--	400	5	G	22	July 1933	C,W,G	S	Charco Largo well. Reported water salty.
A-19	F. G. Hinojosa	L. Calderon	1928	100	6	G	37	do	C,W	S	Cased to 80 ft.
A-20	M. Hinojosa	--	--	120	4	G	26	do	C,W	D,S	
A-21	A. G. Munoz	Francisco Vela	1918	125	4	G	42	June 1933	C,W	D,S	Cased to 60 ft; open end.
A-22	H. O. Casas	M. Pena	1910	90	4	G	28	do	C,W	D,S	
*A-23	Santos Casas	--	--	97	4	G	29	do	C,W	D,S	
A-24	Santa Monica School	--	--	155	4	G	28	July 1933	C,W	P	
*A-25	Placedo Casas	Paulo Casas	1921	40	4	G	22	do	H	S	Cased to 8 ft. Water from sandy caliche.
A-26	Felipe Garza	Felipe Garza	1927	74	4	G	35	do	C,W	D,S	Cased to 8½ ft. Reported water salty.
A-27	R. Casas	P. Garcia	1902	80	84	G	30	do	C,W	D,S	Dug. Reported water salty.
A-28	do	R. Casas	1921	91	4	G	30	do	C,W	D,S	Cased to 10 ft.
A-29	do	Francisco Vela	1908	110	6	G	47	do	C,W	D,S	Cased to bottom; open end. Reported water salty.
A-30	do	R. Panajua	1921	57	84	G	51	do	H	S	Dug.
A-31	J. Barrera	--	--	115	6	G	30	June 1933	C,W	D,S, Irr	
A-32	do	--	--	107	6	G	40	do	C,W	D,S, Irr	Together with well A-31 irrigates 10 acres.
A-33	C. G. Barrera	Francisco Vela	1912	123	6	G	30	do	C,W	D,S	Cased to 4 ft.
A-34	F. R. Barrera well B-1	Humble Oil & Refining Co.	1948	7,771	--	--	--	--	--	--	Oil test. 5/
B-1	King Ranch	--	--	600	4	G	+	1933	Flows	S	Cased to bottom. Measured yield 15 gpm. Temp. 81.5°F.
B-2	do	C. M. Hatcher	1924	771	4	G	+	1933	Flows	S	Cased to bottom. Measured yield 6 gpm. Hacha well. Temp. 85.5°F.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of Measurement			
*B-3	King Ranch	--	1917	552	3	G	+	1933	Flows	S	Cased to bottom. East Copita well. Temp. 87.5°F
*B-4	do	E. J. Rupp	1938	604	6	G	4	Aug.	C,W	S	Cased to bottom. Casing: 146 ft. of 6-in. and 427 ft. of 4-in.; open end. La Medina well. Temp. 87°F. 6/
B-5	do	H. L. Curry	1927	740	3	G	+	1933	Flows	S	Cased to bottom. Measured yield 4 gpm. South Copita well.
*B-6	do	E. J. Rupp	1938	802	6	G	+	1938	Flows	S	Drilled to 920 ft. plugged back to 802 ft. Measured yield 18 gpm. 6/
B-7	do	--	--	646	5	G	+	1933	Flows	S	Cased to bottom. Measured yield 8 gpm. Temp. 87.5°F.
B-8	do	Chester Davis	1921	718	4	G	+	1933	Flows	S	Cased to bottom. Measured yield 18 gpm. Reported water salty. Temp. 85.5°F.
B-9	do	J. C. Curry	--	787	8	G	7.7	Apr. 24, 1933	C,W	S	Cased to bottom. Tampico well. Temp. 86°F.
B-10	do	H. L. Curry	1931	903	5	G	+	1933	Flows	S	Cased to bottom. Measured yield 13 gpm. Temp. 88°F.
*B-11	do	--	1919	516	3	G	3.6	Apr. 21, 1933	C,W	S	Cased to bottom. Todos Santos well. Temp. 83°F.
*B-12	D. G. Guerra	Otto Custer	1927	792	4	G	+	1933	Flows	D,S	Cased to bottom. Reported yield 10 gpm.
B-13	Raphael Garcia	Raphael Garcia	1931	55	4	GL	40	July	C,G	S	Cased to 50 ft. Reported water salty.
B-14	D. Guerra Estate	H. L. Curry	1923	643	4	G	+	1935	Flows	D,S	Cased to bottom. Reported water salty.
B-15	Santa Fe Ranch well 5	Humble Oil & Refining Co.	1949	9,510	--	--	--	--	--	--	Oil test. 2/
B-16	C. T. Guerra et al well 1	Sun Oil Co.	1952	8,504	--	--	--	--	--	--	do.
C-1	F. R. Barrera	F. R. Barrera	1915	75	6	G	38	Aug.	C,W	D,S	Cased to 4 ft.
*C-2	G. Perez	--	--	85	6	G	62	do	C,W	D,S	
C-3	A. Guerra	--	--	84	4	G	25	do	C,W	D,S	

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
C-4	57 <sup>1</sup> / <sub>2</sub>	Antonio Perez	Antonio Perez	1932	69	6	G	35	Aug. 1933	H	D,S	No casing. Water from red sand.
*C-5	54 <sup>1</sup> / <sub>2</sub>	Roberto Zamora	Lino Trevino	1931	72	5	G	29	do	C,W	D,S	
*C-6	52 <sup>1</sup> / <sub>2</sub>	F. R. Barrera	N. Pena	1922	75	6	G	30	do	C,W	D,S	
C-7	68 <sup>1</sup> / <sub>2</sub>	J. G. Trevino	do	1927	74	8	G	24	July 1933	C,W	D,S	Dug.
C-8	69 <sup>1</sup> / <sub>2</sub>	Pedro Longoria	Aciano Sanchez	1910	67	96	G	41	do	C,W	D,S	Cased to 3 ft. Irrigates garden. Water from red sand.
C-9	71 <sup>1</sup> / <sub>2</sub>	Jesus Bazan	N. Pena	1925	105	4	G	25	do	C,W	D,S	Cased to 5 ft. Water from sandy caliche.
*C-10	72 <sup>1</sup> / <sub>2</sub>	Alfredo Rodriguez	A. Rodriguez	1928	72	5	G	57	do	C,W	D,S	
C-11	70 <sup>1</sup> / <sub>2</sub>	Juan Cavazos	N. Pena	1924	76	5	G	31	do	C,W	D,S	
C-12	67 <sup>1</sup> / <sub>2</sub>	J. G. Trevino	do	1927	61	6	G	34	do	H	D,S	Cased to 4 ft.
C-13	66 <sup>1</sup> / <sub>2</sub>	Anita Casas	do	1924	79	5	G	43	do	C,W	D,S	Reported water salty.
*C-14	65 <sup>1</sup> / <sub>2</sub>	do	Marcus Pena	1915	97	8	G	45	do	C,W	D,S	Cased to 5 ft.
C-15	64 <sup>1</sup> / <sub>2</sub>	O. Rodriguez	L. Calderon	1923	115	6	G	63	do	C,W	D,S	No casing.
*C-16	62 <sup>1</sup> / <sub>2</sub>	Marties Pena	--	--	125	4	G	61	do	C,W	D,S	
C-17	63 <sup>1</sup> / <sub>2</sub>	L. Calderon	L. Calderon	1919	130	6	G	65	do	C,W	D,S	Cased to 3 ft. Water from red and white sand.
*C-18	58 <sup>1</sup> / <sub>2</sub>	Antonio Perez	N. Pena	1920	115	4	G	60	Aug. 1933	C,W	D,S	Cased to 8 ft.
C-19	59 <sup>1</sup> / <sub>2</sub>	Bonifacio Perez	do	1920	130	4	G	--	--	H	D,S	Cased to 10 ft.
C-20	73 <sup>1</sup> / <sub>2</sub>	A. Guerra	--	--	24	96	G	83	July 1933	C,W	D,S	Dug.
*C-21	60 <sup>1</sup> / <sub>2</sub>	Dario Perez	N. Pena	1924	130	4	G	97	Aug. 1933	C,W	D,S	Cased to 10 ft. Reported water salty.
C-22	61 <sup>1</sup> / <sub>2</sub>	Roman Chabana	do	1923	120	4	G	84	do	C,W	D,S	Reported salty water from sandy caliche.
C-23	107 <sup>1</sup> / <sub>2</sub>	J. C. Thompson	--	--	300	4	G	79	1933	C,W,G	S	Reported water salty.
C-24	105 <sup>1</sup> / <sub>2</sub>	Andrew Reule	J. Speers	1929	338	4	G	160	July 1933	C,W	D,S	Cased to bottom. Reported water salty

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
C-25	104 <sup>1/2</sup>	F. J. Stevens	--Newbro	1930	335	4	G	148	July 1933	C,W	D,S	Cased to bottom. Reported water salty.
C-26	103 <sup>1/2</sup> E-3 <sup>2/2</sup>	G. E. Stevens	do	1928	337	4	G	186	do	C,W	D,S	Cased to bottom. 6/
C-27	102 <sup>1/2</sup>	Boston-Texas Land Co.	--Stoops	1906	310	5	G	189	do	C,W	S	Cased to bottom. Pinto Ballo well.
*C-28	567 <sup>1/2</sup>	E. Vrana	L. S. Doubrava	1936	300	4	G	--	--	C,W	S	Core hole. 6/
C-29	566 <sup>1/2</sup> E-5 <sup>2/2</sup>	--	Schlumberger Co.	--	1,166	--	--	--	--	--	N	
*C-30	568 <sup>1/2</sup>	Theodore Tice	A. Erdmann	1936	423	4	G	--	--	C,W	D,S	
*C-31	106 <sup>1/2</sup> 569 <sup>1/2</sup>	R. A. Kremel	R. A. Kremel	1933	335	4	G	150	1939	C,W	D,S	Drilled to 350 ft. and cased to 60 ft. in 1933. Redrilled and cased to 335 ft. in 1937. Water level 175 ft. in 1933. 6/
*D-1	550 <sup>1/2</sup> E-3 <sup>2/2</sup>	McAllen Ranch	E. J. Rupp	1938	684	5, 4	G	+	1939	Flows	S	Cased to 643 ft. Reported yield 5 gpm. 6/
D-2	82 <sup>1/2</sup>	Mrs. M. M. Fairbanks	--	--	129	5	G	48	Aug. 1933	C,W,G	S	Cased to bottom. Reported water salty.
D-3	83 <sup>1/2</sup>	do	--	--	200	4	G	37	do	C,W	S	Palmas well. Reported water salty.
D-4	74 <sup>1/2</sup>	A. O. Luck	--	--	120	60	G	36	June 1933	C,W	D,S	Dug.
D-5	75 <sup>1/2</sup>	C. Longoria	L. Calderon	1923	90	4	G	25	do	H	D,S	Cased to 3 ft.
D-6	76 <sup>1/2</sup>	Ricardo Gonzalez	Ricardo Gonzalez	1929	64	4	G	30	do	H	D,S	No casing.
*D-7	551 <sup>1/2</sup> F-2 <sup>2/2</sup>	McAllen Ranch	A. D. Killinger	1938	246	5	G	60	Aug. 1939	C,W	S	Cased to 216 ft. 6/
D-8	77 <sup>1/2</sup>	M. C. Vela	N. Pena	1919	125	4	G	29	June 1933	C,W	D,S	Cased to 3 ft.
*D-9	553 <sup>1/2</sup>	Mmanuel Vela	A. D. Killinger	1939	713	4	G	+	1939	Flows	D,S	Cased to 640 ft. Reported yield 5 gpm. 6/
*D-10	78 <sup>1/2</sup>	Enemencio Bazan	N. Pena	1929	100	6	G	32	June 1933	C,W	D	Cased to 10 ft.
*D-11	79 <sup>1/2</sup>	B. Bazan Estate	do	1919	82	4	G	--	--	H	D,S	Cased to 20 ft.
*D-12	80 <sup>1/2</sup>	McAllen Ranch	Wm. Collins	1912	150	6	G	35	Aug. 1933	C,W	D,S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level	Method of lift	Use of water	Remarks
*D-13	81 <sup>1/2</sup>	McAllen Ranch	Curry Bros.	--	450	8	G	--	C,W,G	D,S	Water from sandstone.
*D-14	554 <sup>1/2</sup> / <sub>F-4</sub>	Wood Christian	A. D. Killinger	1939	947	4	G	+	Flows	S	Cased to bottom. Reported yield 1 gpm. <sup>6/</sup>
*D-15	571 <sup>1/2</sup> / <sub>F-6</sub>	McAllen Ranch	E. J. Rupp	1938	756	5	G	+	Flows	S	Cased to 730 ft. Reported yield 9 gpm. <sup>6/</sup>
*D-16	572 <sup>1/2</sup> / <sub>F-7</sub>	do	do	1938	800	5	G	+	Flows	S	Cased to 766 ft. <sup>6/</sup>
D-17	112 <sup>1/2</sup>	do	--	1910	150	5	GL	58	C,W	S	Flowed when drilled.
*D-18	84 <sup>1/2</sup>	do	Curry Bros.	--	300	4	G	36	C,W	S	Cased to 44 ft.
*D-19	113 <sup>1/2</sup>	do	--	1908	440	5	GL	45	C,W	D,S	Cased to bottom.
*D-20	85 <sup>1/2</sup>	Henry Guerra	Otto Custer	1925	672	5	G	22	C,W,G	D,S	Dug.
D-21	86 <sup>1/2</sup>	Baker Estate	--	--	85	96	GL	28	C,W	S	Cased to bottom. Perforated below 1,400 ft. Measured yield 600 gpm. Temp. 106°F.
D-22	87 <sup>1/2</sup>	do	--	--	500	6	G	11	C,W,G	D,S	Drilled to 95 ft. Cased to 75 ft. Measured yield 134 gpm. Irrigates 8 acres.
*D-23	829 <sup>3/4</sup>	W. E. Goldston	--	1947	2,050	13	GF	--	T,G	Irr	Cased to bottom. <sup>4/</sup>
*D-24	735 <sup>3/4</sup>	Jessie Gaston	--	--	75	12	IF	32.8	T,G	Irr	Measured yield 134 gpm. Irrigates 8 acres.
*D-25	736 <sup>3/4</sup>	Neal Tennis	--	1938	85	12	IF	28.8 31.0	T,G	Irr	Cased to bottom. <sup>4/</sup>
*D-26	761 <sup>3/4</sup>	W. P. Hauser	Royal Stephens	1947	87	12	IF	--	T,G	Irr	Irrigates 300 acres.
*D-27	763 <sup>3/4</sup>	do	do	1947	78	12	IF	--	T,G	Irr	Cased to bottom.
*D-28	764 <sup>3/4</sup>	--Boiler	A. G. Steele	1948	90	14	IF	34.0	T,G	Irr	Measured yield 163 gpm. Irrigates 100 acres.
*D-29	766 <sup>3/4</sup> / <sub>F-17</sub>	A. J. Ehlers	Royal Stephens	1945	80	12	IF	28.6 47.4	T,G	Irr	Cased to bottom. Measured yield 305 gpm. Irrigates 125 acres. <sup>4/</sup>
*D-30	765 <sup>3/4</sup>	W. R. Allan	do	1945	89	14	IF	34.1	T,G	Irr	Cased to bottom. Measured yield 333 gpm. Irrigates 100 acres.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*D-31	A. W. Beaurline	--	1946	1,503	10, 8	G	+	--	Flows	Irr	Cased to bottom. Perforated from 1,000 to 1,100 ft. and from 1,200 to 1,500 ft.
*D-32	A. J. Ehlers	Royal Stephens	1946	86	12	IF	32.4 44.8	Mar. 23, 1948 June 27, 1958	T,G	Irr	Cased to 3 ft. Measured yield 312 gpm. 6/4/
D-33	A. W. Beaurline	--	1946	85	14	IF	32.0 28.3 32.4	Mar. 23, 1948 Dec. 10, 1948 Apr. 26, 1949	T,G	N	Irrigated 220 acres.
D-34	do	--	1945	85	14	IF	34.3	Mar. 23, 1948	T,G	Irr	
D-35	do	--	1946	85	14	IF	35.5 52.5	Mar. 23, 1948 June 27, 1958	T,G	Irr	4/
D-36	do	--	1947	85	14	IF	34.7 44.2	Mar. 23, 1948 June 27, 1958	T,G	Irr	4/
*D-37	H. E. Snyder	Royal Stephens	1947	85	12	IF	--	--	T,G	Irr	Measured yield 221 gpm. Irrigates 100 acres.
D-38	R. King	A. G. Steele	1948	95	12	IF	--	--	T,G	Irr	6/
*D-39	Southern Floral Co.	Royal Stephens	1945	76	12	IF	29.2 47.6	June 21, 1945 June 27, 1958	T,G	Irr	Irrigates 120 acres. 4/
*D-40	A. W. Beaurline	B. M. Roard	1938	78	12	IF	32.0 46.1	Sept. 2, 1934 June 27, 1958	T,G	Irr	Irrigates 70 acres. 4/
*D-41	G. D. Young	--	1945	900	6	G	+	--	Flows	--	
*D-42	do	Pioneer Drilling Co.	1947	95	12	IF	43.9 49.2	Apr. 4, 1948 June 27, 1958	Flows, T,G	Irr	Cased to 9 ft. Irrigates 170 acres. 4/
*D-43	Southern Floral Co.	Royal Stephens	1945	86	12	IF	--	--	T,G	Irr	
*D-44	G. D. Young	--	1945	900?	6	G	+	--	Flows	N	
*D-45	do	Dick Dean	1945	1,400	10	G	1.3	Jan. 11, 1950 May 27, 1955	--	N	Destroyed. 4/
D-46	do	Pioneer Drilling Co.	1947	95	12	IF	34.2 43.9	Apr. 4, 1948 June 27, 1958	T,G	Irr	Cased to 9 ft. Reported yield 200 gpm.
*D-47	G. D. Young	Dick Dean	1945	900?	6	G	+	--	Flows	N	

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*D-48	813 <sup>2/3</sup>	G. D. Young	--	1945	900?	6	G	+	--	Flows	N	
D-49	806 <sup>3/4</sup>	A. W. Beaurline	--	1945	88	14	LF	33.2 34.5	Mar. 20, 1948 Apr. 15, 1948	T,G	Irr	
*D-50	747 <sup>3/4</sup>	F. W. Boreman	Royal Stephens	1944	85	12	LF	--	--	T,G	Irr	Measured yield 250 gpm. Irrigates 50 acres.
*D-51	815 <sup>3/4</sup>	R. J. West	Mamuel Villareal	1946	90	10	LF	28	1948	T,G	Irr	Measured yield 265 gpm. Irrigates 40 acres.
D-52	816 <sup>3/4</sup>	--Wilson	Royal Stephens	1947	85	12	LF	34.2 37.5	Apr. 17, 1948 Jan. 11, 1950	--	N	Cased to 3 ft. Destroyed. <u>4/</u>
*D-53	751 <sup>3/4</sup>	O. J. Blaue	--	1931	80	10	LF	36.2	June 9, 1947	T,G	Irr	Cased to 4 ft. Irrigates 60 acres.
D-54	817 <sup>3/2</sup> F-10 <sup>2/2</sup>	Mrs.--Veynard	A. G. Steele	1946	90	14	LF	--	--	T,G	Irr	Irrigates 40 acres. <u>6/</u>
*D-55	819 <sup>3/4</sup>	Ivan A. White	--Wells	1928	85	8	LF	--	--	C,W	D,S	Cased to 60.
*D-56	820 <sup>3/4</sup>	do	Royal Stephens	1945	85	12, 11	LF	--	--	J,E	D,S	Cased to 62 ft.
D-57	574 <sup>1/3</sup>	do	B. M. Roard	1929	85	11	LF	34.9	June 21, 1945	--	--	
*D-58	121 <sup>1/2</sup>	J. A. White	Ned Wells	1929	80	8	LF	50	Aug. 1933	C,G	D,S, Irr	Cased to bottom. Water from sand.
*D-59	822 <sup>3/4</sup>	L. V. Harpel	--	1947	80	12	LF	30.2	Mar. 23, 1948	T,G	Irr	Irrigates 92 acres.
D-60	823 <sup>3/4</sup>	do	--	1948	75	6	LF	33.1	do	--	--	
*D-61	818 <sup>3/4</sup>	Ivan A. White	Royal Stephens	1945	93	14	LF	36.0	Mar. 23, 1948	T,G	Irr	Cased to 6 ft. Measured yield 568 gpm. Irrigates 120 acres.
*D-62	824 <sup>3/4</sup>	G. T. Harpel	A. G. Steele	1948	90	12	LF	38.9	Mar. 22, 1948	T,G	Irr	Cased to 50 ft. Measured yield 355 gpm. Irrigates 100 acres. <u>6/</u>
*D-63	825 <sup>3/4</sup>	L. V. Harpel	--	1947	90	12	LF	32.2 31.2 32.3	Mar. 22, 1948 Dec. 10, 1948 Apr. 26, 1949	T,G	N	Caved. Formerly irrigated 95 acres.
*D-64	826 <sup>3/4</sup>	--	--	--	90?	12	LF	39.4 53.7	Mar. 23, 1948 June 27, 1958	T,G	Irr	Irrigates 80 acres. <u>4/</u>
*D-65	827 <sup>3/4</sup>	Reynaldo Vela	--	1945	80	12	LF	34.3 49.0	Mar. 22, 1948 June 27, 1958	T,G	Irr	Cased to 6 ft. Irrigates 75 acres. <u>4/</u>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*D-66	118 <sup>1/</sup>	Frank Rabb . Estate	--	--	80+	5	LF	80	Aug. 1933	C,G	D,S	
*D-67	828 <sup>3/</sup>	Reynaldo Vela	--	--	90	12	LF	44.6 53.8	Mar. 22, 1948 June 27, 1958	T,G	Irr	Irrigates 100 acres. <u>4/</u>
*D-68	752 <sup>3/</sup>	do	Royal Stephens	1945	92	10	LF	42.7 67.6	June 21, 1945 June 28, 1958	T,G	Irr	Water from sand at 48 to 92 ft. <u>4/</u>
*D-69	573 <sup>1/3/</sup>	J. E. Garrett	B. M. Roark	1938	88	14	LF	51.0 49.9	Sept. 1, 1939 June 27, 1958	--	N	<u>4/</u>
D-70	117 <sup>1/</sup>	J. J. Young	Juan Mercado	1932	140	4	GL	102	July 1933	C,G	S	Cased to 40 ft.
D-71	116 <sup>1/</sup>	do	do	1921	120	4	GL	72	do	C,W	D,S	Cased to 20 ft.
D-72	115 <sup>1/</sup>	do	--	1925	125	6	GL	66	do	C,W	D,S	Cased to 60 ft.
D-73	114 <sup>1/</sup>	do	Juan Mercado	1919	125	6	GL	49	do	C,W	D,S	Cased to 80 ft.
D-74	111 <sup>1/</sup>	Mrs. M. M. Fairbanks	H. L. Curry	1910	350	6	GL	29	do	C,G	S	
D-75	110 <sup>1/</sup>	do	--	1926	156	4	GL	101	Aug. 1933	C,W,G	S	Cased to 20 ft.
D-76	847 <sup>2/</sup>	J. G. Turner	Shary & Maddox	1939	400	4	GL	78.9	Apr. 17, 1948	--	--	Oil field supply well.
*D-77	846 <sup>3/</sup>	do	do	1939	1,175	10	G	+	--	Flows, T,G	Irr	Converted oil test; cleaned to about 1,175 ft. Cased to 917 ft. <u>5/</u>
*D-78	109 <sup>1/</sup>	Mrs. M. M. Fairbanks	--	1926	170	4	G	100	Aug. 1933	C,W,G	D,S	Cased to 60 ft.
D-79	570 <sup>1/3/</sup>	--	--	--	1,302	--	--	--	--	--	N	Schlumberger core hole. <u>6/</u>
D-80	--	A. W. Beaurline et al.well 2	Amerada Petroleum Corp.	1949	8,506	--	--	--	--	--	--	Oil test. <u>5/</u>
D-81	--	A. W. Beaurline et al.well 1	Sinclair Oil & Gas Co.	1955	2,524	--	--	--	--	--	--	do.
*E-1	557 <sup>1/3/</sup> G-16 <sup>2/</sup>	D. Guerra & Sons	E. J. Rupp	1938	701	5	G	+	--	Flows	S	Drilled to 834 ft. Cased to 701 ft. <u>6/</u>
*E-2	830 <sup>3/</sup>	W. L. Goldston	--	1947	2,050	13	G?	+	--	Flows, T,G	Irr	Drilled to 2,200? ft. Screen from 1,400 to 2,050 ft. Irrigates 260 acres.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
E-3	88 <sup>1</sup> / <sub>2</sub>	D. Guerra & Sons	--	1908	500+	4	G	--	--	C,W	D,S	
*E-4	89 <sup>1</sup> / <sub>2</sub>	do	H. L. Curry	1925	625	4	G	+	--	Flows, C,W	D,S	Reported flow 1 gpm.
E-5	96 <sup>1</sup> / <sub>2</sub>	do	Curry Bros.	1893	600+	4	G	+	--	Flows	D,S	Reported flow 15 gpm.
E-6	562 <sup>1</sup> / <sub>2</sub> / G-15 <sup>2</sup> / <sub>2</sub>	King Ranch	E. J. Rupp	1938	1,002	6	G	+	--	Flows	S	Cased to bottom. Reported flow 30 gpm. <u>6</u> / <sub>2</sub>
E-7	97 <sup>1</sup> / <sub>2</sub>	do	H. L. Curry	1917	1,070	5	G	+	--	Flows	S	Cased to 960 ft. Machos well.
*E-8	564 <sup>1</sup> / <sub>2</sub> / H-1 <sup>2</sup> / <sub>2</sub>	Romaldo Garza	A. D. Killinger	1939	715	5	G	3	Aug. 1939	C,W	S	Cased to 686 ft. <u>6</u> / <sub>2</sub>
E-9	98 <sup>1</sup> / <sub>2</sub>	D. Guerra & Sons	H. L. Curry	1915	575	5	G	+	--	Flows	D,S	Cased to bottom.
E-10	92 <sup>1</sup> / <sub>2</sub>	do	do	1917	525	4	G	+	--	Flows	D,S	do.
E-11	93 <sup>1</sup> / <sub>2</sub>	do	--	1905	525+	4	G	+	--	Flows	S	do.
*E-12	94 <sup>1</sup> / <sub>2</sub>	do	H. L. Curry	1920	575	4	G	+	--	Flows	D,S	Cased to bottom. Reported flow 7 gpm.
E-13	556 <sup>1</sup> / <sub>2</sub> / G-17 <sup>2</sup> / <sub>2</sub>	W. M. Doughty	Garland Johnson	--	3,009	--	--	--	--	--	N	Oil test.
E-14	555 <sup>1</sup> / <sub>2</sub> / G-18 <sup>2</sup> / <sub>2</sub>	King Ranch	E. J. Rupp	1938	780	6	G	+	--	Flows	S	Cased to 760 ft. <u>6</u> / <sub>2</sub>
E-15	91 <sup>1</sup> / <sub>2</sub>	W. M. Doughty	W. T. Sprague	1907	440	4	GL	--	--	C,W,G	S	Cased to bottom.
*E-16	734 <sup>3</sup> / <sub>2</sub> / G-19 <sup>2</sup> / <sub>2</sub>	Guerra Bros.	E. J. Rupp	1944	1,020	5	--	+	--	Flows	S	Original depth 1,020 ft; later deepened. Final depth not known. <u>6</u> / <sub>2</sub>
E-17	780-b <sup>3</sup> / <sub>2</sub>	D. V. Guerra	Pursley Drilling Co.	1948	1,500+	10	G	+	--	Flows	Irr	
E-18	95 <sup>1</sup> / <sub>2</sub>	D. Guerra & Sons	H. L. Curry	1905	525+	4	G	+	--	Flows	D,S	
E-19	99 <sup>2</sup> / <sub>2</sub>	do	do	1912	560	4	G	+	--	Flows	D,S	Cased to bottom.
*E-20	561 <sup>1</sup> / <sub>2</sub> / G-13 <sup>2</sup> / <sub>2</sub>	do	E. J. Rupp	1938	811	5	G	+	--	Flows	S	Cased to 772 ft. <u>6</u> / <sub>2</sub>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*E-21	560 <sup>1</sup> / <sub>2</sub> / G-14 <sup>2</sup> / <sub>2</sub>	Romaldo Garza	A. D. Killinger	1938	742	4	G	+	--	Flows	S	Cased to bottom. <u>6</u> / <sub>2</sub>
E-22	100 <sup>1</sup> / <sub>2</sub>	P. Y. Perez	H. L. Curry	1912	630	4	G	32	Aug. 1933	C,W	D,S	Cased to bottom.
E-23	831 <sup>3</sup> / <sub>2</sub>	J. Garcia Heirs	Sun Oil Co.	1943	6,030	--	--	--	--	--	N	Oil test. <u>5</u> / <sub>2</sub>
E-24	151 <sup>1</sup> / <sub>2</sub>	--	--	--	750+	5	G	+	--	Flows	D,S	Measured yield 5 gpm.
*E-25	152 <sup>1</sup> / <sub>2</sub>	C. M. Corbett	--	1927	900+	5	G	30	Aug. 1933	C,W	D,S	
E-26	153 <sup>1</sup> / <sub>2</sub>	Mrs. M. M. Fairbanks	--	--	900+	6	G	+	--	Flows	S	Measured yield 10 gpm.
*E-27	585 <sup>1</sup> / <sub>3</sub> / G-8 <sup>2</sup> / <sub>2</sub>	C. M. Corbett	E. J. Rupp	1939	762	5	G	+	--	Flows	S	Cased to bottom. <u>6</u> / <sub>2</sub>
E-28	150 <sup>1</sup> / <sub>2</sub>	Roma Garza	--	--	750	4	G	+	--	Flows	D,S	Measured yield 5 gpm.
*E-29	739 <sup>3</sup> / <sub>2</sub>	H. L. McBride	Glenda Oil Co.	1945	1,710	8	G	+	--	Flows, T,G	Irr	Reported yield 25 ppm. <u>5</u> / <sub>2</sub>
E-30	149 <sup>1</sup> / <sub>2</sub>	Jose G. Trevino	J. Curry	1918	776	6	G	+	--	Flows	D,S	
*E-31	584 <sup>1</sup> / <sub>3</sub> / G-9 <sup>2</sup> / <sub>2</sub>	G. H. Coates	A. D. Killinger	1939	782	5	G	6	Aug. 1939	C,W	D,S	Cased to 725 ft. <u>6</u> / <sub>2</sub>
E-32	148 <sup>1</sup> / <sub>2</sub>	P. Garza	--	--	750+	4	G	9	Aug. 1933	C,W	D,S	
*E-33	147 <sup>1</sup> / <sub>2</sub>	A. V. Garza	--	--	750+	4	G	11.5	Aug. 5, 1933	C,W	D,S	
*E-34	582 <sup>1</sup> / <sub>3</sub> / G-10 <sup>2</sup> / <sub>2</sub>	P. C. Zamora	E. J. Rupp	1937	499	4	GL	8	Aug. 1939	C,W	D,S	Drilled to 631 ft. Cased to 499 ft. Slotted from 492 to 499 ft. <u>6</u> / <sub>2</sub>
*E-35	581 <sup>1</sup> / <sub>3</sub> / G-12 <sup>2</sup> / <sub>2</sub>	Juanlina Garza	A. D. Killinger	1937	705	4	G	+	--	Flows	D,S	Cased to bottom. <u>6</u> / <sub>2</sub>
*E-36	583 <sup>1</sup> / <sub>3</sub> / G-11 <sup>2</sup> / <sub>2</sub>	King Ranch	E. J. Rupp	1938	625	5	G	37	Aug. 1939	C,W	S	<u>6</u> / <sub>2</sub>
*E-37	134 <sup>1</sup> / <sub>2</sub>	A. B. Garza	H. L. Curry	1923	650	4	G	5	July 1933	C,W	D,S	Cased to bottom
E-38	137 <sup>1</sup> / <sub>2</sub>	M. Chapa	J. N. Cavazos	1920	75	4	G	44	Aug. 1933	C,W	D,S	Cased to bottom. Reported water salty.
*E-39	579 <sup>1</sup> / <sub>3</sub> / G-23 <sup>2</sup> / <sub>2</sub>	do	E. J. Rupp	1938	471	4	GL	--	--	J,G	Ind.	Drilled to 471 ft. Cased to 431 ft. <u>6</u> / <sub>2</sub>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level below land-surface datum (ft.)	Date of Measurement	Method of lift	Use of water	Remarks
E-40	136 <sup>1</sup> / <sub>2</sub>	M. Chapa	J. N. Cavazos	1920	210	5	IF	41	Aug. 1933	C,W	S	Cased to bottom. Reported water salty.
E-41	138 <sup>1</sup> / <sub>2</sub>	A. Guerra	--	--	213	5	IF	38	June 1933	C,W	D,S	
*E-42	780a <sup>2</sup> / <sub>2</sub>	Guerra Bros.	Pursley Drilling Co.	1948	1,385	8	G	+	--	Flows	Ind	
*E-43	780 <sup>2</sup> / <sub>2</sub>	Linn School District	Fred Fiedler	1945	1,470	10	G	+	--	Flows	--	
E-44	135 <sup>1</sup> / <sub>2</sub>	A. M. Chapa	J. N. Cavazos	1920	75	4	IF	46	Aug. 1933	C,W	D,S	Drilled to 1,470 ft. Cased to bottom. Perforated from 1,215 to 1,325 ft. Reported yield 40 gpm. <sup>6</sup> / <sub>2</sub>
E-45	133 <sup>1</sup> / <sub>2</sub>	Juan Chapa	do	1929	66	4	IF	41	do	C,W	S	Cased to bottom.
E-46	132 <sup>1</sup> / <sub>2</sub>	Juan N. Guerra	Juan N. Guerra	1926	68	4	IF	40	do	C,W	S	Reported water salty.
*E-47	580 <sup>1</sup> / <sub>2</sub>	J. N. Guerra	E. J. Rupp	1938	488	5	GL	7	Aug. 1939	C,W	D,S	do.
*E-48	129 <sup>1</sup> / <sub>2</sub>	Walter Doughty	J. N. Cavazos	1931	67	4	IF	28	June 1933	C,W	D,S	
E-49	130 <sup>1</sup> / <sub>2</sub>	Southern Pacific R. R. Co.	J. W. Jackson	1927	765	6	G	+	--	Flows	--	Reported yield 10 gpm. <sup>6</sup> / <sub>2</sub>
*E-50	128 <sup>1</sup> / <sub>2</sub>	A. Guerra	--	1925	173	5	IF	30	June 1933	C,W	D,S	
*E-51	127 <sup>1</sup> / <sub>2</sub>	A. Guerra	--	--	115	4	IF	30	do	C,W	D,S	
*E-52	126 <sup>1</sup> / <sub>2</sub>	do	--	--	90	4	IF	30	do	C,W	D,S	
E-53	--	Guerra Bros.	Pursley Drilling Co.	1948	1,385	--	G	--	--	T,-	--	<sup>5</sup> / <sub>2</sub>
E-54	781 <sup>2</sup> / <sub>2</sub>	Ranger Chemical Co.	--	--	80	12	LF	29.9 31.1	Jan. 22, 1948 Apr. 26, 1950	N	N	Destroyed. <sup>1</sup> / <sub>2</sub>
*E-55	779 <sup>2</sup> / <sub>2</sub>	T. H. McClelland	--	1945	80	--	IF	31.1 36.3	Jan. 22, 1948 June 4, 1957	T,G	--	<sup>1</sup> / <sub>2</sub>
E-56	778 <sup>2</sup> / <sub>2</sub>	Joe LeBow	--	--	90	12	LF	28.9 33.4	Jan. 22, 1948 June 27, 1958	T,-	N	<sup>1</sup> / <sub>2</sub>
*E-57	124 <sup>1</sup> / <sub>2</sub>	W. J. Wylie	--	1926	65	4	IF	34	June 1933	C,W	D, Irr	Cased to 10 ft.
*E-58	762 <sup>2</sup> / <sub>2</sub>	W. F. Houser	Royal Stephens	1948	87	12	IF	--	--	T,G	Irr	

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*E-59	737 <sup>2</sup> / <sub>1</sub>	A. K. Polis	--	1946	85	12	LF	30.1	June 9, 1947	T,G	Irr	
E-60	777 <sup>2</sup> / <sub>1</sub>	do	--	--	80	6	LF	24.6 24.9	Jan. 23, 1948 Jan. 11, 1950	N	N	Destroyed. <u>4</u> / <sub>1</sub>
*E-61	577 <sup>1</sup> / <sub>2</sub> <sup>3</sup> / <sub>1</sub>	Southern Floral Co.	A. D. Killinger	1937	88	12	LF	30.5 41.6 39.8	Aug. 15, 1939 June 7, 1947 May 21, 1948	N	N	
*E-62	776 <sup>2</sup> / <sub>1</sub>	do	Royal Stephens	1944	87	14	LF	--	--	T,G	Irr	
E-63	738 <sup>2</sup> / <sub>1</sub>	A. K. Polis	--	1946	85	12	LF	30.8 37.6	June 9, 1947 May 22, 1956	N	N	Destroyed. <u>4</u> / <sub>1</sub>
E-64	742 <sup>2</sup> / <sub>1</sub>	do	--	1945	80	10	LF	29.6	June 21, 1945	T,G	Irr	Cased to 10 ft.
E-65	741 <sup>2</sup> / <sub>1</sub> G-28 <sup>2</sup> / <sub>1</sub>	do	--	1945	80	10	LF	33.0 47.2	June 9, 1947 June 27, 1958	--	Irr	Cased to 10 ft. <u>4</u> / <sub>1</sub>
*E-66	744 <sup>2</sup> / <sub>1</sub>	do	--	--	80	36	LF	31.5 47.9	June 21, 1945 June 27, 1958	T,G	Irr	<u>4</u> / <sub>1</sub>
*E-67	576 <sup>1</sup> / <sub>2</sub> <sup>3</sup> / <sub>1</sub>	do	B. M. Roark	1938	78	36	LF	30.0 42.6	Sept. 2, 1939 June 27, 1958	T,G	Irr	<u>4</u> / <sub>1</sub>
*E-68	775 <sup>2</sup> / <sub>1</sub>	do	--	1946	80	12	LF	31.5 43.3	Mar. 20, 1948 June 27, 1958	T,G	Irr	<u>4</u> / <sub>1</sub>
E-69	782 <sup>2</sup> / <sub>1</sub>	Ranger Chemical Co.	--	--	80	13	LF	--	--	T,G	Irr	
*E-70	740 <sup>2</sup> / <sub>1</sub>	W. M. Doughty	--	1939	910	5	G	+	--	Flows	S	Measured yield 13 gpm.
*E-71	784 <sup>2</sup> / <sub>1</sub>	Tom Brown	Bob Johnson	1947	1,224	12, 10, 7	G	+	--	Flows, T,G	Irr	Cased to bottom. Perforated below 907 ft. Measured yield 804 gpm.
E-72	783 <sup>2</sup> / <sub>1</sub>	Ranger Chemical Co.	--	--	90	12	LF	30.5 36.8	Apr. 20, 1948 June 13, 1957	--	N	<u>4</u> / <sub>1</sub>
*E-73	742 <sup>2</sup> / <sub>1</sub> G-29 <sup>2</sup> / <sub>1</sub>	Rio Grande Floral Co.	--	1940	78	12	LF	27.7 44.0	June 20, 1945 June 4, 1957	T,G	Irr	Cased to 10 ft. Measured yield 300 gpm. Irrigates 12 acres. <u>4</u> / <sub>1</sub>
E-74	605 <sup>2</sup> / <sub>1</sub> G-42 <sup>2</sup> / <sub>1</sub>	Hele Schaleben	Royal Stephens	1946	75	12	LF	29.8 41.3	Jan. 23, 1948 June 27, 1958	T,G	Irr	Irrigates 45 acres. <u>4</u> / <sub>1</sub>
*E-75	757 <sup>2</sup> / <sub>1</sub>	S. L. Turner	--	1936	80	--	LF	31.2 42.5	June 10, 1947 June 27, 1958	T,G	Irr	Irrigates 83 acres. <u>4</u> / <sub>1</sub>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*E-76	804 <sup>3/</sup>	Rio Grande Floral Co.	Royal Stephens	1946	76	12	LF	--	--	T,G	Irr	Cased to 13 ft. Reported yield 200 gpm. Irrigates 30 acres.
*E-77	750 <sup>3/</sup> G-30 <sup>2/</sup>	Juan Medina	do	1945	80	12	LF	26.9 45.9	June 21, 1945 June 27, 1958	T,G	Irr	Measured yield 288 gpm. Irrigates 56 acres. <u>4/</u>
*E-78	802 <sup>3/</sup> G-41 <sup>2/</sup>	D. C. Pollock	--	1934	90	12	LF	33.4 52.8	Jan. 23, 1948 June 27, 1958	T,G	Irr	Cased to 30 ft. Irrigates 200 acres. <u>4/</u>
E-79	141 <sup>1/</sup>	G. Carrisal	F. Calvio	1928	50	4	LF	39	Aug. 1933	C,W	D,S	Cased to 20 ft.
*E-80	800 <sup>3/</sup> G-40 <sup>2/</sup>	J. P. Cruise	--	1943	100	12	LF	27.9 46.1	Jan. 23, 1948 June 4, 1957	T,G	Irr	Cased to 31 ft. Measured yield 728 gpm. <u>4/</u>
E-81	803 <sup>3/</sup>	--Bradburn	A. G. Steele	1946	90	12	LF	28.9	Apr. 15, 1948	T,G	Irr	
E-82	799 <sup>3/</sup> G-24 <sup>2/</sup>	J. P. Cruise	do	1947	134	12	LF	17.6	Mar. 21, 1948	T,G	Irr	Cased to 35 ft. <u>6/</u>
E-83	801 <sup>3/</sup>	W. P. Cruise	Royal Stephens	1946	112	12	LF	34.3	Apr. 17, 1948	--	--	Cased to 35 ft.
*E-84	749 <sup>3/</sup>	J. P. Cruise	Glenda Oil Co.	1945	890	6	G	+	--	Flows, A,G	Irr	Drilled to 1,404 ft. Cased to 890 ft. Measured yield 431 gpm. Temp. 92.5°F. <u>5/</u>
E-85	799a <sup>3/</sup>	W. P. Cruise	--	1948	907	12	LF	--	--	T,G	Irr	
E-86	798 <sup>3/</sup> G-25 <sup>2/</sup>	J. P. Cruise	A. G. Steele	1946	100	12	LF	--	--	--	N	Abandoned. <u>6/</u>
*E-87	786 <sup>3/</sup>	Texas Produce Co.	Bob Johnson	1946	1,046	12	G	+	--	Flows	Irr	Cased to bottom. Perforated from 1,006 to 1,046. Measured yield 1,205 gpm, Apr. 5, 1948. Irrigates 255 acres.
*E-88	785 <sup>3/</sup> G-33 <sup>2/</sup>	T. W. Lee	--	1946	935	8	G	+	--	Flows, T,G	Irr	Drilled to 980 ft. Cased to 935 ft. Perforated from 915 to 935 ft.
E-89	781 <sup>3/</sup> G-34 <sup>2/</sup>	G. B. Miller	--	1947	90	12	LF	39.2 52.1	Apr. 4, 1948 June 4, 1957	T,G	N	Destroyed. <u>4/</u>
E-90	797 <sup>3/</sup>	do	--	1947	90	12	LF	32.8 48.7	Apr. 4, 1948 June 27, 1958	T,B	Irr	<u>4/</u>
E-91	796 <sup>3/</sup>	do	--	1947	90	12	LF	--	--	T,G	Irr	

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*E-92	145 <sup>1/2</sup>	Mrs. Agnes Puckett	F. Mares	1930	37	5	IF	36.5	Aug. 1, 1933	C,W,G	D,S	Cased to 7 ft.
*E-93	786 <sup>3/4</sup>	G. B. Miller	--	1947	90	12	IF	43.7 53.9	Jan. 24, 1948 June 4, 1957	T,G	Irr	Irrigates 80 acres. <u>4/</u>
*E-94	753 <sup>1/2</sup> G-31 <sup>1/2</sup>	Frank Gross	Royal Stephens	1945	88	13	IF	35.9 45.7	June 9, 1947 June 27, 1958	T,G	Irr	Cased to bottom. Measured yield 756 gpm. Irrigates 240 acres. Temp. 79°F. <u>4/</u>
E-95	795 <sup>3/4</sup> G-39 <sup>1/2</sup>	do	--	1945	90	12	IF	27.2	Mar. 19, 1948	--	N	
*E-96	754 <sup>3/4</sup>	Fred Mischler	--	--	90	10	IF	35.1	June 9, 1947	T,G	Irr	Irrigates 30 acres.
*E-97	755 <sup>3/4</sup> G-32 <sup>1/2</sup>	W. H. Fowler	Royal Stephens	1946	90	12	IF	37.2 47.8	June 9, 1947 June 4, 1957	T,G	Irr	Cased to 30 ft. Measured yield 304 gpm. Irrigates 85 acres. <u>4/</u>
E-98	789 <sup>3/4</sup> G-35 <sup>1/2</sup>	do	A. G. Steele	1948	91	7	IF	52.9 63.7	Apr. 17, 1948 June 27, 1958	--	N	<u>4/</u>
E-99	756 <sup>3/4</sup>	do	Royal Stephens	1945	128	10	IF	55.1	May 12, 1945	--	N	Cased to 20 ft. Abandoned.
*E-100	146 <sup>1/2</sup>	Juan B. Gonzalez	Carlos Hinojosa	1930	75	6	IF	42	Aug. 1933	C,W	D,S	Cased to 5 ft.
E-101	790 <sup>3/4</sup> G-26 <sup>1/2</sup>	C. E. Villarreal	A. G. Steele	1947	80	5, 4	IF	--	--	C,W	D,S	Cased to bottom.
*E-102	791 <sup>3/4</sup> G-36 <sup>1/2</sup>	do	--	1946	91	12	IF	29 42.3	1946 June 27, 1958	--	N	Abandoned. <u>4/</u>
*E-103	794 <sup>3/4</sup> G-38 <sup>1/2</sup>	Taylor & Latham	--	--	90	12	IF	36.4 50.0	Mar. 22, 1948 June 27, 1958	T,G	Irr	Measured yield 348 gpm. Irrigates 165 acres. <u>4/</u>
*E-104	144 <sup>1/2</sup>	Carlos Hinojosa	Carlos Hinojosa	1923	52	4	IF	45	Aug. 1933	C,W	D,S	
*E-105	143 <sup>1/2</sup>	M. Cantu	--	--	38	96	IF	36	do	C,W	D,S	Dug.
E-106	--	G. D. Guerra	Border Well Service	1946	1,214	10	G	+	--	Flows, T,E,50	Irr	Cased to bottom. Irrigates 80 acres. <u>5/</u>
E-107	--	D. V. Guerra well 2	Sun Oil Co.	1952	8,507	--	--	--	--	--	--	Oil test. <u>5/</u>
E-108	--	D. V. Guerra well 1	do	1947	2,006	--	--	--	--	--	--	do.

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
E-109	--	W. M. Doughty well 1	Placid Oil Co.	1948	9,028	--	--	--	--	--	--	Oil test. <u>5/</u>
E-110	--	J. P. Cruise water well 1	Glenda Oil Co.	1945	1,382	--	--	--	--	--	N	Water well test. <u>5/</u>
E-111	--	McAllen well 1	H. L. Hunt	1948	9,022	--	--	--	--	--	--	Oil test. <u>5/</u>
F-1	155 <sup>1/2</sup>	Boston-Texas Land Co.	H. C. Stoops	1905	178	4	G	160	July	1933	D,S	Cased to bottom. Water from sand and gravel.
F-2	156 <sup>1/2</sup>	do	do	1905	255	6	G	174	do		S	Cased to bottom. Rifle well.
F-3	157 <sup>1/2</sup>	do	do	1905	265	5	G	188	do		S	Cased to bottom. Reported water salty. Sunshine well.
*F-4	590 <sup>1/2</sup>	Dallas Stock & Land Bank	--	--	300	4	G	--	--		D,S	Cased to bottom.
*F-5	591 <sup>1/2</sup>	E. Riethmyer	--	--	375	4	G	--	--		D,S	do.
*F-6	158 <sup>1/2</sup>	John Walker	E. Newbro	1926	280	5	G	167	July	1933	D,S	
*F-7	159 <sup>1/2</sup>	John T. Judd	do	1927	290	6	G	185	do		D,S	
*F-8	160 <sup>1/2</sup>	M. Nusbaum	do	1927	285	4	G	183	do		D,S	Cased to 220 ft.
*F-9	--	Lucian Pilarczyk	A. Erdmann	1949	300+	4	G	--	--		D,S	Cased to bottom.
*F-10	592 <sup>1/2</sup>	McCook Gin Co.	L. Kuseer	1935	344	4	G	--	--		Ind	do.
F-11	593 <sup>1/2</sup>	--	Schlumberger Co.	--	1,617	--	--	--	--		N	Core hole. <u>6/</u>
*F-12	163 <sup>1/2</sup>	Mick Kolzier	E. Newbro	1926	380	4	G	139	July	1933	D,S	Cased to 375 ft. Water from fine-grained white sand.
F-13	162 <sup>1/2</sup>	J. W. Burrsey	do	1927	338	4	G	160	do		D,S	Cased to bottom.
*F-14	595 <sup>1/2</sup>	Cora Davis	--	--	580	5	G	132	Aug.	1939	D,S	Old. Flowed when drilled.
*F-15	596 <sup>1/2</sup>	Anna Dube	A. Erdmann	1936	371	4	G	175	do		D,S	Cased to bottom. Reported water salty.
*F-16	594 <sup>1/2</sup>	Mildred Davis	A. L. Wallingham	1934	351	6	G	210	do		D,S	
*F-17	589 <sup>1/2</sup>	C. Pollock	do	1936	350	4	G	--	--		D,S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*F-18	161 <sup>1/2</sup>	P. Christianson	James Speer	1930	265	4	G	211	July 1933	C,W	D,S	Cased to bottom. Water from fine-grained red sand.
F-19	186 <sup>1/2</sup>	A. L. Landry	do	1931	260	4	G	200	Aug. 1933	C,W	D,S	Reported water salty.
*F-20	588 <sup>1/2</sup>	F. J. Dusek	A. Erdmann	1936	370	4	G	175	Aug. 1939	C,W	D,S	Cased to bottom.
F-21	587 <sup>1/2</sup>	--	Schlumberger Co.	--	1,255	--	--	--	--	--	N	Core hole. <u>6/</u>
*F-22	185 <sup>1/2</sup>	W. D. Jeffries	--	--	280	4	G	147	Aug. 1933	C,W	S	
F-23	586 <sup>1/2</sup>	--	Schlumberger Co.	--	706	--	--	--	--	--	N	Core hole. <u>6/</u>
F-24	207 <sup>1/2</sup>	Mrs. R. L. Cavazos	Juan Cavazos	1928	170	5	G	138	1933	C,W	D,S	Cased to bottom. Water from sand and gravel.
F-25	206 <sup>1/2</sup>	Martin Cavazos	do	1926	190	4	G	100	1933	C,W	D,S	Water from sand.
F-26	604 <sup>1/2</sup>	--	--	--	765	--	G	--	--	--	--	
F-27	205 <sup>1/2</sup>	C. Reyna	Juan Cavazos	--	125	4	G	101	1933	C,W	D,S	Water from gravel.
*F-28	208 <sup>1/2</sup> K-4 <sup>1/2</sup>	E. Salinas	--Colbath	1927	205	4	G	137	1933	C,W	D,S	Cased to 125 ft. <u>6/</u>
F-29	--	Block & Wallace	Pat Farmer	1953	495	18	G	--	--	T,G	Irr	Cased to bottom. Slotted from 195 to 495 ft. Pump set at 380 ft. Reported yield 1,100 gpm. <u>6/</u>
*F-30	211 <sup>1/2</sup>	Showers Estate	--	--	396	3	G	106	1933	C,W	D,S	Cased to bottom.
*F-31	597 <sup>1/2</sup> K-5 <sup>1/2</sup>	J. B. Winston	A. D. Killinger	1938	777	4	G	100	Aug. 1939	J,G	D,S	Cased to bottom. Reported yield 100 gpm. <u>6/</u>
F-32	--	U. S. Air Force	Layne-Texas Co.	1956	1,387	--	--	--	--	--	N	Test for public supply at Moore Air Base. Reported 2,100 gpm total solids. <u>5/</u>
F-33	--	H. J. Rock	Shell Oil Co.	1956	1,532	10	--	--	--	--	N	Oil test. Test for water reported salty. <u>5/</u>
*F-34	210 <sup>1/2</sup>	Showers Estate	--	--	197	4	G	101	1933	C,W	D,S	Cased to bottom.
F-35	209 <sup>1/2</sup>	Gill Estate	--	1913	145	4	G	116	1933	C,W	D,S	
*G-1	I-1 <sup>1/2</sup>	Chas. C. Roper	Killinger Drilling Co.	1946	844	4	G	--	--	J,E, I	D,S	<u>5/</u>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
G-2	--	Chas. C. Roper	Killinger Drilling Co.	1949	1,080	4	G	76.5	Sept. 16, 1957	J,E $\frac{1}{2}$	D,S	Cased to bottom. Slotted from 1,059 to 1,080 ft. <u>5/</u>
G-3	--	Valley Farms	--	--	300+	4	G	--	--	J,E	D,S	Cased to bottom. Reported 2,340 ppm. total solids.
G-4	164 <sup>1/2</sup>	O. M. Johnson	--	1926	163	4	G	72.	July 1933	C,W	S	Reported water salty.
G-5	--	Mrs. F. I. Johnson	Pursley Drilling Co.	--	1,180	6	G	--	--	T,G	Irr	Cased to bottom. Water from sand. Reported yield 350 gpm.
G-6	--	do	Carl Vickers	1953	1,021	16, 8	G	137.5	Sept. 16, 1957	T,B	Irr	Cased to bottom. Pump set at 300 ft. Reported yield 1,000 gpm.
G-7	--	do	Pursley Drilling Co.	1953	1,170	8	G	--	--	T,B	Irr	Cased to bottom. Slotted below 710 ft. Reported yield 650 gpm.
G-8	--	do	Superior Oil Co.	1953	1,160	12	G	119	Sept. 1957	T,G	Irr	Cased to bottom. Pump set at 300 ft. Wells G-5, 6, 7, and 8 irrigate 500 acres.
*G-9	598 <sup>1/3</sup> / L-7 <sup>2</sup>	Hammond Bros.	A. D. Killinger	1939	564	5	G	53	Apr. 1939	C,W	D,S	Cased to bottom. <u>6/</u>
G-10	166 <sup>1/2</sup>	Frank Rabb Estate	--	--	77	4	LF	50	Aug. 1933	C,W	D,S	Reported water salty.
*G-11	165 <sup>1/2</sup>	E. Vela	E. Vela	1928	72	4	LF	64	do	C,W	D,S	Cased to 4 ft.
*G-12	833 <sup>2/2</sup> / L-12 <sup>2/2</sup>	G. D. Guerra	A. G. Steele	1948	81	12	LF	40.4 45.1	Apr. 4, 1948 June 4, 1957	--	N	<u>4/</u>
G-13	834 <sup>2/2</sup> / L-13 <sup>2/2</sup>	R. G. Floyd	--	1940	60	48	LF	34.3 41.5	Mar. 22, 1948 June 4, 1957	--	N	<u>4/</u>
G-14	835 <sup>2/2</sup>	do	--	1940	97	5	LF	33.4 30.1 30.8 30.9	Mar. 22, 1948 Jan. 11, 1950 Apr. 29, 1950 May 31, 1950	--	N	
G-15	836 <sup>2/2</sup>	do	--	1940	97	5	LF	34.3 41.4	Mar. 22, 1948 June 4, 1957	--	N	<u>4/</u>
*G-16	190 <sup>1/2</sup>	W. M. Brevster	--	1908	180	4	LF	35	Aug. 1933	C,W	D,S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*G-17	--	Eoris Bulstkin	A & T Drilling Co.	1951	1,325	12	G	17	1957	--	N	Cased to bottom. Bottom 200 ft. slotted. <u>5/</u>
G-18	191 <u>1/2</u>	Jose Guerra	--	--	131	8	IF	54	Aug. 1933	C,W	D,S	Water from red clay and sand.
*G-19	189 <u>1/2</u>	Shary Estate	O. C. Withers	1913	136	6	IF	--	--	--	--	Cased to bottom.
*G-20	188 <u>1/2</u>	do	do	1913	372	6	GL	68	June 1933	C,W	S	Originally flowed.
*G-21	187 <u>1/2</u>	Hammond Bros.	--	1900	900+	8	G	27	do	C,W	D,S	Reported water salty.
G-22	212 <u>1/2</u>	do	--	1910	310	10	GL	144	1933	C,W	D,S	Reported water salty.
*G-23	213 <u>1/2</u>	do	O. C. Woods	1911	750	6	G	49	1933	C,W	D,S	Cased to bottom. <u>6/</u>
*G-24	214 <u>1/2</u>	do	do	1910	1,447	4	G	31	1933	C,W	D,S	Cased to bottom. Reported water salty.
G-25	216 <u>1/2</u>	Shary Estate	O. C. Withers	1913	300	6	GL	--	--	--	--	Cased to bottom. Reported water salty.
*G-26	218 <u>1/2</u>	Baptist Seminary	A. I. Willingham	1929	425	4	GL	21	1933	C,W	D,S	Cased to 420 ft. <u>6/</u>
G-27	--	Central Power & Light Co.	Layne-Texas Co.	1950	1,050	4	G	+	--	Flows J,E,1	Irr	Cased to bottom. Reported flow 15 gpm. <u>5/</u>
G-28	217 <u>1/2</u>	Shary Estate	O. C. Withers	1913	550	10	G	22	1933	C,W	S	Cased to bottom. Reported water salty.
G-29	--	Winnett & Neuhaus	A. D. Killinger	1952	1,014	16, 12	G	79.4	Sept. 16, 1957	T,NG, 85	Irr	Drilled to 515 ft. Cased to 500 ft. Slotted from 470 to 500 ft. Reported yield 500 gpm. Irrigates 75 acres.
*G-30	--	C. D. Lance	Bert Killinger	1950	500	10, 8	G	120	1957	T,NG	Irr	Cased to bottom.
G-31	215 <u>1/2</u>	H. G. Trooper	--Colbath	1931	180	5	GL	98	1933	C,W	D,S	Cased to 6 ft.
H-1	173 <u>1/2</u>	Joaquin Cavazos	Juan Cavazos	1920	75	4	IF	43	July 1933	C,W	D,S	Cased to 3 ft. <u>4/</u>
H-2	793 <u>3/4</u> G-37 <u>1/2</u>	--Kale	Royal Stephens	--	91	12	IF	22.8 37.0	Mar. 22, 1948 June 27, 1958	--	N	Cased to 20 ft.
H-3	169 <u>1/2</u>	Jack Lane	C. Hinojosa	1924	67	4	IF	45.5	Aug. 7, 1933	C,W	D,S	do.
H-4	168 <u>1/2</u>	Mrs. G. C. Cavazos	J. Z. Cavazos	1921	65	5	IF	48	Aug. 1933	C,W	D,S	Cased to 10 ft.
H-5	172 <u>1/2</u>	E. H. Carlisbath	--	1926	76	4	IF	--	--	C,W	D,S	Cased to 48 ft. Irrigates 55 acres. <u>4/ 6/</u>
*H-6	792 <u>3/4</u> M-29 <u>1/2</u>	Artura Garza	A. G. Steele	1947	96	12	IF	26.8 37.5	Mar. 20, 1948 June 27, 1958	T,G	Irr	

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*H-7	171 <sup>1</sup> / <sub>2</sub>	Crisanto Vela	M. Soto	1930	56	5	IF	43	July	C,W	D,S	Cased to 6 ft.
H-8	174 <sup>1</sup> / <sub>2</sub>	Cotton Belt Gin Co.	Juan Cavazos	1923	95	4	IF	50	do	C,G	D,Ind	Cased to 80 ft. Water from gravel and sand.
*H-9	175 <sup>1</sup> / <sub>2</sub>	F. B. Vela	--	--	63	4	IF	56	do	C,W	D,S	Cased to 7 ft.
H-10	176 <sup>1</sup> / <sub>2</sub>	Mrs. A. R. Calzando	Juan Mercado	1933	60	4	IF	40	do	C,W	D,S	Cased to 7 ft.
H-11	177 <sup>1</sup> / <sub>2</sub>	Ohlanbush Lumber Co.	Juan Cavazos	1932	60	4	IF	43	do	C,W	D,S	Cased to 6 ft.
*H-12	178 <sup>1</sup> / <sub>2</sub>	J. A. Deaton	J. A. Deaton	--	57	4	IF	40	do	C,W	D,S	Cased to 14 ft. Water from sand.
*H-13	179 <sup>1</sup> / <sub>2</sub>	Frank Rabb Estate	R. Serde	1926	60	5	IF	54	do	C,W	S	Cased to bottom.
*H-14	832 <sup>3</sup> / <sub>4</sub> M-282	G. D. Guerra	A. G. Steele	1946	92	12	IF	--	--	T,G	Irr	
*H-15	839 <sup>3</sup> / <sub>4</sub>	Pape & Allison	--	1946	1,464	12	G	+	--	Flows, T,G	Irr	Irrigates 160 acres.
*H-16	840 <sup>3</sup> / <sub>4</sub>	do	--	1946	1,105	8	G	+	--	Flows, T,G	Irr	Measured yield 424 gpm.
*H-17	167 <sup>1</sup> / <sub>2</sub>	A. J. Norwood	A. L. Willingham	1927	255	4	IF	--	--	C,W	D,S	Cased to bottom.
*H-18	841 <sup>1</sup> / <sub>2</sub>	U. S. Army	--	--	650	8	G	+	--	Flows	S	Reported yield 5 gpm.
*H-19	843 <sup>1</sup> / <sub>2</sub>	J. G. Turner	Gus Commier	1946	1,300	10	G	+	--	Flows	Irr	5/
H-20	195 <sup>1</sup> / <sub>2</sub>	A. Guerra	--	--	147	4	GL	52	July	C,W	S	Reported water salty.
*H-21	841a <sup>3</sup> / <sub>4</sub>	--Lee	--	1948	1,000	5	G	+	--	Flows	Irr	Reported yield 60 gpm.
*H-22	170 <sup>1</sup> / <sub>2</sub>	--Doughty	Curry Bros.	1908	950+	6	G	20	Aug.	C,W	D,S	Cased to bottom.
*H-23	180 <sup>1</sup> / <sub>2</sub>	Delta Orchards Co.	--	--	1,100+	5	G	+	--	Flows	D,S	
*H-24	184 <sup>1</sup> / <sub>2</sub>	Community	--	1926	940+	4	G	--	--	C,W	D,S	
*H-25	181 <sup>1</sup> / <sub>2</sub>	Steuer Estate	--	--	1,000+	6	G	--	--	C,W	D,S	

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Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
H-26	182 <sup>1</sup> / <sub>2</sub>	--	--	--	886	--	G	--	--	--	--	
*H-27	198 <sup>1</sup> / <sub>2</sub>	Edinburg School District	A. L. Willingham	1932	870	6	G	10	1933	--	D, S	Cased to bottom. Reported yield 40 gpm.
*H-28	196 <sup>1</sup> / <sub>2</sub>	Delta Orchards Co.	--	--	1,100	--	G	--	--	C, W	--	
H-29	197 <sup>1</sup> / <sub>2</sub>	Community	--	--	900	--	G	--	--	C, W	D, S	
H-30	199 <sup>1</sup> / <sub>2</sub>	Delta Orchards Co.	McNeil & Custer	--	456	--	GL	20	1933	C, W	D, S	Cased to bottom.
H-31	224 <sup>1</sup> / <sub>2</sub>	C. Cardenas	--	--	84	4	GL	54	do	C, W	D, S	Reported water salty.
*H-32	223 <sup>1</sup> / <sub>2</sub>	Juan de la Vina	--	--	130	4	GL	47	do	C, W	D, S	
H-33	--	Western National Gas Co.	Western National Gas Co.	1950	1,318	8	G	+	--	Flows, J, Ng	Ind	Cased to bottom. <u>2</u> / <sub>2</sub>
H-34	--	Tennessee Transmission Co.	--	1950	539	--	G	--	--	--	N	Reported total solids 2,850 ppm. <u>2</u> / <sub>2</sub>
H-35	222 <sup>1</sup> / <sub>2</sub>	S. Cardenas	--	1918	74	4	GL	50	1933	C, W	S	Reported water salty.
*H-36	842 <sup>3</sup> / <sub>2</sub>	J. G. Turner	Gas Commier	1946	1,250	9	G	+	--	Flows, T, G	Irr	Drilled to 1,345 ft. Cased to 1,250 ft. Slotted below 1,140 ft. <u>2</u> / <sub>2</sub>
*H-37	221 <sup>1</sup> / <sub>2</sub>	Alamo Cotton Oil Co.	A. L. Willingham	1929	258	4	GL	--	--	C, W	D, S	Cased to bottom.
H-38	220 <sup>1</sup> / <sub>2</sub>	Geo. Zimmer	--	1913	240	4	GL	56	1933	C, W	D, S	Cased to 160 ft. Reported water salty.
*H-39	759 <sup>3</sup> / <sub>2</sub>	L. A. Gannaway	--	1946	1,125	7	G	+	--	Flows, T, G	Irr	Drilled to 1,430 ft. Cased to 1,300 ft. Plugged at 1,125 ft. Reported yield 750 gpm. Irrigates 300 acres. <u>2</u> / <sub>2</sub>
*H-40	219 <sup>1</sup> / <sub>2</sub> M-272 <sup>1</sup> / <sub>2</sub>	Southern Pacific R. R. Co.	J. W. Jackson	1927	1,040	6	G	+	--	Flows	Ind	Cased to bottom. <u>6</u> / <sub>2</sub>
H-41	--	F. H. Vanhsing	Pursley Drilling Co.	1948	1,326	12	G	--	--	T, Ng	Irr	<u>2</u> / <sub>2</sub>
H-42	225 <sup>1</sup> / <sub>2</sub>	Community	E. Kieke	--	462	5	RG	32	1933	C, W	--	
H-43	226 <sup>1</sup> / <sub>2</sub>	do	--	--	480	5	RG	--	--	C, W	--	

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
H-44	--	Pat Farmer	Pat Farmer	1953	176	12	RG	18.8	Sept. 11, 1957	T,G	Irr	Cased to bottom. Slotted from 155 to 176 ft. Pump set at 130 ft. <u>5/</u>
H-45	227 <sup>1/2</sup>	Delta Orchards Co.	--	--	460+	5	RG	25	1933	--	--	
*H-46	228 <sup>1/2</sup>	do	E. Kieke	--	465	--	RG	--	--	C,W	D,S	
H-47	--	Hannis Turberville	Pat Farmer	1953	331	16	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 230 to 331 ft. Pump set at 240 ft. Reported yield 2,200 gpm. Irrigates 300 acres. <u>5/</u>
*H-48	--	H. N. Klunkert	do	1948	280	12	RG	--	--	T,B	Irr	Drilled to 304 ft. Cased to 280 ft. Slotted from 260 to 280 ft. Reported yield 975 gpm.
H-49	--	J. C. Turner water well 1	J. C. Turner	1946	1,303	--	--	--	--	--	--	Water well test. <u>5/</u>
H-50	--	J. C. Engleman well 4	Western Natural Gas Co.	1950	7,833	--	--	--	--	--	--	Oil test. <u>5/</u>
H-51	--	Helen E. Stiegel lease et al, well 1	H. R. Smith	1951	6,252	--	--	--	--	--	--	do.
*J-1	200 <sup>1/2</sup>	Delta Orchard Co.	--	--	930	--	G	--	--	--	--	
J-2	--	Rio Farms	Hugh Cole	1952	200	4	RG	10	1954	J,E	S	Cased to bottom. Slotted from 140 to 200 ft.
J-3	201 <sup>1/2</sup>	W. H. Keenly	--	--	310	--	RG	--	--	--	--	Water from gravel.
J-4	202 <sup>1/2</sup>	C. O. Sundling	E. Kieke	--	350	5	RG	17	1933	C,W	D,S	Cased to bottom. Water from gravel and sand.
J-5	203 <sup>1/2</sup>	First National Bank of Raymondville	--	--	350	--	RG	17	do	--	D,S	Reported water salty.
J-6	204 <sup>1/2</sup>	--	--	--	450	--	RG	22	do	H	D,S	
J-7	--	Mrs. Anna Stromberg	Pursley Drilling Co.	1952	353	10	RG	35	1952	T,B	Irr	Cased to bottom. Slotted from 258 to 353 ft. Measured yield 900 gpm.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
J-8	243 <sup>1/2</sup>	A. Swenson Estate	H. L. Curry	1912	1,115+	5	G	+	--	Flows C,W	D,S	Cased to bottom.
J-9	--	T. McColland	Pursley Drilling Co.	1950	316	10	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 234 to 316 ft. Pump set at 160 ft. Reported yield 600 gpm.
J-10	242 <sup>1/2</sup>	C. O. Sundling	--	--	150	4	RG	17.2	Aug. 24, 1933	C,W	--	Cased to 130 ft. Reported water salty.
J-11	N-38 <sup>2/2</sup>	G. S. Conners	Pursley Drilling Co.	1950	317	10	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 240 to 317 ft. Pump set at 120 ft. Reported yield 300 gpm.
J-12	241 <sup>1/2</sup>	W. Erickson	--	--	235	--	RG	--	--	C,W	S	Water from sand.
*J-13	244 <sup>1/2</sup>	J. Reynolds	E. Kieke	--	240+	--	RG	--	--	--	S	
J-14	N-35 <sup>2/2</sup>	Dan Gustafson	Pursley Drilling Co.	1952	326	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 250 to 326 ft.
J-15	N-36 <sup>2/2</sup>	do	do	1950	319	8	RG	34	1954	T,B	Irr	Cased to bottom. Slotted from 279 to 319 ft.
J-16	N-37 <sup>2/2</sup>	R. D. Farris	do	1952	301	8	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 213 to 301 ft. Pump set at 140 ft.
J-17	237 <sup>1/2</sup>	M. L. Barnum	H. L. Curry	1915	920	--	G	--	--	H	N	Reported water salty.
*J-18	236 <sup>1/2</sup>	Fred Henson	--	--	61	--	RG	40	1933	C,W	D,S	
*J-19	235 <sup>1/2</sup>	Barton Hughes	E. Kieke	--	98	--	RG	25	do	C,W	D,S	Water from sand.
J-20	234 <sup>1/2</sup>	do	A. L. Curry	--	80	6	RG	--	--	C,W	D,S	
J-21	N-32 <sup>1/2</sup>	Dan Logan	Pursley Drilling Co.	1952	348	14	RG	69	1953	T,B	Irr	Cased to bottom. Slotted from 168 to 348 ft. Reported yield 250 gpm. Draw-down 101 ft. Reported total solids 3,420 ppm.
J-22	--	M. R. Richardson	--	1953	420	16	RG	--	--	T,B	Irr	Cased to bottom. Irrigates 60 acres.
J-23	N-14 <sup>2/2</sup>	L. F. Nittler	Pat Farmer	1952	623	12	RG	60	1953	T,B	Irr	Cased to bottom. Slotted from 541 to 623 ft. Pump set at 290 ft. <sup>6/</sup>
J-24	N-13 <sup>2/2</sup>	W. D. Woodruff	--Woodruff	1953	590	12	RG	81.1	May 5, 1953	T,B	Irr	Drilled to 760 ft. Cased to 590 ft. Slotted from 500 to 590 ft. Pump set at 220 ft. <sup>2/</sup>

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of Measurement			
J-25	Marrs Nursery	Arlis Killinger	1953	135	4	RG	--	--	--	N	Cased to bottom. Abandoned. 6/
J-26	do	do	1953	200	4	RG	--	--	J,E	D,S	Cased to bottom. 6/
J-27	Delta Orchard Co.	--	--	123	--	RG	--	--	C,W	--	
*J-28	Rio Farms, Inc.	Layne-Texas Co.	1953	305	12	RG	10	May 1954	T,E, 75	Irr	Drilled to 1,643ft. Cased to 305 ft. Screen from 170 to 205 ft. and 265 to 305 ft. Pump set at 180 ft. Reported 1,200 gpm. 5/6/
J-29	Community	--	--	450	--	RG	--	--	C,W	D,S	
J-30	Delta Orchards Co.	E. Kieke	--	127	--	RG	--	--	--	--	
J-31	do	--	--	125	--	RG	20	Aug. 1933	C,W	D,S	
*J-32	do	--	--	160	--	RG	16.5	Aug. 23, 1933	C,W	D,S	
*J-33	Engleman Gardens	--	--	120	--	RG	--	--	--	--	
J-34	M. R. Richardson	Pat Farmer	1953	210	12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 170 to 210 ft. Pump set at 140 ft. Irrigates 80 acres. 6/
J-35	O. H. Heines	Pursley Drilling Co.	1953	340	12	RG	31	May 1954	T,B	Irr	Cased to bottom. Slotted from 262 to 340 ft. Pump set at 160 ft.
J-36	Ed Schmidt	do	1950	340	10	RG	--	--	T,P, 85	Irr	Cased to bottom. Slotted from 262 to 340 ft. Pump set at 150 ft.
J-37	Dan Logan	do	1952	340	14	RG	--	--	T,P, 85	Irr	Cased to bottom. Slotted from 259 to 338 ft. Pump set at 150 ft. Irrigates 75 acres.
J-38	do	A & T Drilling Co.	1953	601	--	RG	--	--	--	N	Irrigation test. 5/
J-39	Dickinson & Harris	H. L. Curry	--	710	--	RG	20	1933	C,W	S	Reported water salty.
J-40	Mike George	--	--	300+	--	RG	--	--	T	Irr	

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Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
J-41	240 <sup>1/</sup>	Merchants National Bank of Brownsville	E. Kieke	--	270	5	RG	30.5	Aug. 23, 1933	C,W	D,S	Reported water salty.
J-42	N-12 <sup>2/</sup>	J. D. Bourland	O. T. Davis	--	297	10	RG	95	1953	T,B, 77	Irr	Drilled to 297 ft. Cased to 276 ft. Slotted from 183 to 276 ft. <u>6/</u>
J-43	N-9 <sup>2/</sup>	Orville Stites	Pursley Drilling Co.	1948	294	12	RG	26	1954	T,B, 70	Irr	Cased to bottom. Slotted from 200 to 290 ft. Pump set at 120 ft. Irrigates 140 acres.
J-44	N-22 <sup>2/</sup>	Mike George	--	1953	289	8	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 269 to 289 ft. Pump set at 170 ft.
J-45	N-21 <sup>2/</sup>	do	--	1952	300	8	RG	--	--	T,B, 77	Irr	Cased to bottom. Slotted from 280 to 300 ft. Irrigates 35 acres.
J-46	248 <sup>1/</sup>	J. R. Barr	--	1915	665	--	RG	6	1933	C,W	S	Reported water salty.
J-47	249 <sup>1/</sup>	F. R. Johnston	--	--	30	84	RG	17	Aug. 1933	C,W	D,S	Dug.
J-48	N-10 <sup>2/</sup>	Escobar Bros.	Pursley Drilling Co.	1951	341	8	RG	25	1951	T,B	Irr	Cased to bottom. Slotted from 264 to 341 ft. Pump set at 135 ft.
J-49	N-20 <sup>2/</sup>	do	do	1953	500	16	RG	50	1953	T,B	Irr	Cased to bottom. Slotted from 340 to 500 ft. Pump set at 240 ft. Irrigates 210 acres.
J-50	247 <sup>1/</sup>	C. O. Pearson	--	--	27	--	RG	27	1933	C,W	D,S	Dug.
J-51	246 <sup>1/</sup>	Amanda Lund	--	--	239	--	RG	--	--	H	S	Reported water salty.
J-52	245 <sup>1/</sup>	C. Baker	--	--	35	--	RG	25	Aug. 1933	C,W	D,S	Dug.
J-53	N-34 <sup>2/</sup>	E. C. Lagerstram	Pursley Drilling Co.	1952	338	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 256 to 338 ft. Pump set at 200 ft. <u>6/</u>
J-54	N-33 <sup>2/</sup>	C. G. Gustafson	do	1951	326	10	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 226 to 236 ft. Pump set at 200 ft.
J-55	N-32 <sup>2/</sup>	E. C. Lagerstram	do	1951	354	10	RG	25	1954	T,B	Irr	Cased to bottom. Slotted from 270 to 354 ft. Pump set at 180 ft.
J-56	N-26 <sup>2/</sup>	Nyquist & Todd	do	1951	354	8	RG	35	1951	T,B	Irr	Cased to bottom. Slotted from 300 to 350 ft.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
J-57	N-25 <sup>2</sup> / <sub>1</sub>	C. G. Nyquist	Pursley Drilling Co.	1951	335	8	RG	55	May 1954	T,B	Irr	Cased to bottom. Slotted from 285 to 335 ft. Reported yield 550 gpm.
J-58	N-19 <sup>2</sup> / <sub>1</sub>	Lewis Fry	do	1952	494	14	RG	--	--	T,B	Irr	Cased to bottom. Screen from 244 to 353 ft. and from 424 to 494 ft. Pump set at 180 ft.
J-59	N-11 <sup>2</sup> / <sub>1</sub>	E. Escobar	do	1953	498	12, 8	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 398 to 498 ft. Pump set at 150 ft.
J-60	250 <sup>1</sup> / <sub>1</sub>	S. Rose	--	--	35	--	RG	--	--	C,W	D,S	
K-1	252 <sup>1</sup> / <sub>1</sub>	M. Pena	C. Smith	1927	120	4	G	94	July 1933	C,W	D,S	Reported water salty.
K-2	--	Clark Fuel Producing Co.	--	1956	5,559	4	--	--	--	--	Ind, Irr	Oil field supply well. 5/
*K-3	255 <sup>1</sup> / <sub>1</sub>	--Hart	--	--	99	8	G?	70	July 1933	C,W	D,S	
*K-4	251 <sup>1</sup> / <sub>1</sub>	W. R. Jackson	--	--	170	4	G?	111	do	C,W	D,S	Cased to bottom.
K-5	269 <sup>1</sup> / <sub>1</sub>	L. Garza	--	--	134	4	G?	100	do	C,W	D,S	
K-6	268 <sup>1</sup> / <sub>1</sub>	--	--Colbath	1928	110	4	G?	95	do	C,G	--	Cased to bottom. Water from sand and gravel.
K-7	--	Manuel Rodriguez	Bert Killinger	1957	396	12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 235 to 274 ft. and 356 to 396 ft. Pump set at 200 ft.
K-8	271 <sup>1</sup> / <sub>1</sub>	F. Kurz	John Hartzell	--	242	10	RG	95	Aug. 1933	C,G	N	Cased to bottom. Water from sand. Once used for irrigation.
*K-9	272 <sup>1</sup> / <sub>1</sub>	Mary Fleoden	Bert Killinger	1928	95	6	RG	90	do	C,W	D,S	Drilled to 106 ft. Cased to 95 ft; open end.
K-10	--	J. D. Reavis	Gene Liberty	1957	414	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 270 to 340 ft. and from 368 to 414 ft. Pump set at 200 ft. 5/ 6/
K-11	276 <sup>1</sup> / <sub>1</sub>	--	--	--	175	4	RG	--	--	C,W	D,S	Cased to bottom.
*K-12	277	Showers Estate	--Colbath	--	210	5	RG	96.5	Aug. 11, 1933	C,G	D,S	Drilled to 227 ft. Cased to 210 ft. Reported yield 15 gpm.
K-13	--	J. D. Reavis	--	--	496	10	RG	--	--	T,B	Irr	Cased to bottom. Reported yield 200 gpm.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Wells	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*K-14	275 <sup>1/</sup>	Showers Estate	--	--	161	4	RG	88	Aug. 1933	C,W	D,S	
*K-15	279 <sup>2/</sup>	Bentsen Bros.	--Colbath	1933	278	5	RG	--	--	C,E	D,S	Drilled to 331 ft. Cased to 278 ft. Reported yield 35 gpm. <u>6/</u>
K-16	--	A. Bierbeaur	Bert Killinger	1953	360	12	RG	99	Sept. 1957	T,G	Irr	Drilled to 462 ft. Cased to 360 ft. Slotted from 200 to 360 ft. Pump set at 218 ft. Reported yield 900 gpm. <u>5/</u>
K-17	--	Pride of Texas Co.	--	1953	407	16	RG	120	1953	T,G	Irr	Cased to bottom. Gravel-packed. Reported yield 800 gpm. <u>5/</u>
*K-18	--	LaHoma Ranch	--	1945	485	8	RG	--	--	T,E, 7 <sup>1/2</sup>	Irr, D	Drilled to 803 ft. Cased to 485 ft. Perforated in sand at 420 and 460 ft. <u>5/</u>
*K-19	--	American Investment co.	Glenda Oil Co.	1945	803	8, 6	RG	46.4	June 15, 1945	C,E, 1 <sup>1/2</sup>	D,S	Cased to bottom. Reported yield 7 gpm. <u>5/</u>
K-20	P-22 <sup>2/</sup>	Felix Mottini	Pursley Drilling Co.	1953	340	12	RG	100.3	Sept.16, 1957	T,B, 60	Irr	Cased to bottom. Pump set at 200 ft. <u>5/</u>
K-21	--	Thompson Bros.	do	1957	400	16	RG	123.7	May 3, 1957	T,B	Irr	Drilled to 427 ft. Cased to 400 ft. Slotted from 270 to 400 ft. <u>5/</u>
*K-22	--	W. W. Woody	Gene Liberty	1956	350	12	RG	--	--	T,G	Irr	Drilled to 405 ft. Cased to 350 ft. Slotted from 154 to 214 ft.; 228 to 252 ft; and from 256 to 350 ft. Pump set at 214 ft. <u>5/</u>
*K-23	--	Rsy Barnick	Bert Killinger	1957	345	12	RG	111	1957	T,G	Irr	Cased to bottom. Slotted from 255 to 340 ft. Reported yield 700 gpm. <u>6/</u>
*K-24	--	F. P. Eckroat	do	1956	276	8	RG	86.3	Sept.16, 1957	T,B	Irr	Cased to bottom. Slotted from 250 to 276 ft. Irrigates 20 acres. <u>6/</u>
K-25	--	E. M. Goodwin	do	--	252	8	RG	91.5	do	--	N	Cased to bottom. <u>6/</u>
K-26	--	John P. Waite	A. D. Killinger	1956	200	12	RG	110.7	Sept.11, 1957	T,B	Irr	Cased to bottom. Pump set at 180 ft. Reported yield 500 gpm.
K-27	--	Everett Bell	Atlantic Refining Co.	1957	480	13	RG	--	--	T,Ng	Irr	Cased to bottom. Perforated from 180 to 250 ft., and from 465 to 480 ft. <u>5/</u>

See footnotes at end of table.

Table 4.--Records of Wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*K-28	--	Everett Bell	Gene Liberty	1957	260	16	RG	--	--	T,Ng	Irr	Drilled to 325 ft. Cased to 260 ft. Slotted from 130 to 260 ft. Pump set at 200 ft. <u>5/</u>
K-29	351 <sup>1/2</sup> / <sub>P-42</sub>	LaJoy's Estate	A. L. Willingham	1926	180	8	RG	35	1933	C,E	--	Cased to bottom. Reported yield 350 gpm. <u>6/</u>
*K-30	349 <sup>1/2</sup> / <sub>O-15</sub>	Oscar Daskam	E. Daskam	1933	108	5	RG	67	July 1933	C,G	D,S, Irr	Cased to bottom. <u>6/</u>
K-31	264 <sup>1/2</sup>	G. Garcia	--	1883	19	4.8	RG	16	do	C,W	D,S	Dug.
*K-32	263 <sup>1/2</sup> / <sub>O-13</sub>	E. W. Sullivan	E. W. Johnson	1924	80	4	RG	10	do	C,W	D,S	Cased to bottom. Water from sand and gravel. <u>6/</u>
K-33	258 <sup>1/2</sup>	V. G. Chapa	--	--	144	4	RG	95	do	H	D,S	Reported water salty.
*K-34	257 <sup>1/2</sup>	Lopez Guerra	Juan Vela	1930	90	5	RG	62	do	C,W	D,S	
*K-35	256 <sup>1/2</sup>	P. S. Rivas	--	1926	80	5	RG	61	do	C,W	D,S	Drilled to 87 ft. Cased to 80 ft.
K-36	--	Clark Fuel Producing Co.	Clark Fuel Producing Co.	1940	4,121	10	--	--	--	T,E	Irr	Drilled as oil test. Now used for irrigation. <u>5/</u>
K-37	261 <sup>1/2</sup>	Mrs. A. F. Flores	--	1925	110	4	RG	85	July 1933	C,W	S	Reported water salty.
K-38	262 <sup>1/2</sup>	do	E. Newbro	1929	210	4	RG	--	--	C,W	S	Drilled to 230 ft. Cased to 210 ft. Reported water salty.
*K-39	601 <sup>1/2</sup>	R. R. Chamberlain	A. D. Killinger	1938	100	5	RG	42	Aug. 1939	C,E	D	Cased to bottom.
K-40	265 <sup>1/2</sup>	John Lawrence	--	1916	90	6	RG	32	July 1933	C,W	D,S	Cased to bottom. Water from sand and gravel.
K-41	--	Benita F. Diaz	Bert Killinger	1956	75	16	RG	21.9	Sept. 10, 1957	T,Ng	Irr	Cased to bottom. Slotted from 62 to 75 ft. Pump set at 60 ft. Reported yield 900 gpm.
K-42	346 <sup>1/2</sup>	Luis Pena	--	1926	80	5	RG	29	July 1933	C,W	D,S	Cased to bottom.
K-43	343 <sup>1/2</sup>	Town of Los Ebanos	Maximo Diaz	1915	60	4	RG	25	do	C,W	D,S	do.
K-44	--	F. Yturria	A. L. Herschep	1957	90	16	RG	25.5	Jan. 30, 1957	T,B, 55	Irr	Cased to bottom. Pump set at 86 ft.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
K-45	--	F. Yturria	A. L. Herschap	1957	96	16	RG	--	--	T,B, 55	Irr	Cased to bottom. Water from gravel. Pumping level 60 ft.
K-46	347 <sup>1/2</sup>	Yturria Town & Improvement Co.	--Colbath	1932	65	4	RG	42	July 1933	C,W	S	Cased to bottom. Reported water salty.
K-47	348 <sup>1/2</sup>	Fordyce Gin Co.	--	1926	100+	8	RG	31	do	--	N	Abandoned.
K-48	350 <sup>1/2</sup>	T. Card	--	--	108	5	RG	46	do	C,E	Ind	Cased to bottom. Reported yield 25 gpm. Oil field supply well.
K-49	--	John Halm	--	1953	90	16	RG	--	--	T,E	Irr	Cased to bottom. Slotted from 65 to 90 ft. Pump set at 75 ft.
K-50	--	Crow Gravel Co.	Pursley Drilling Co.	1957	86	12	RG	---	--	T,E, 40	Ind	Cased to bottom. Slotted from 74 to 86 ft. Pump set at 76 ft. Reported yield 800 gpm.
K-51	--	Bannworth Bros	A. D. Killinger	1953	97	16, 12	RG	21.9	Sept.10, 1957	T,G, 115	Irr	Drilled to 135 ft. Cased to 97 ft. Slotted from 76 to 97 ft. 10-in. pump set at 70 ft. Cemented. Irrigates 150 acres.
*K-52	--	do	do	1957	75	16, 12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 57 to 75 ft. Pump set at 65 ft. Cemented. <u>6/</u>
K-53	--	Block & Wallace	Bert Killinger	1956	90	12	RG	20.4	Sept.11, 1957	T,B, 54	Irr	Cased to bottom. Slotted from 80 to 90 ft.
*K-54	P-12 <sup>1/2</sup>	Tabasco School District	A & T Drilling Co.	1947	210	12	RG	--	--	T,A	P	Drilled to 466 ft. Cased to 210 ft. Slotted from 117 to 210 ft. Pump set at 180 ft. <u>5/</u>
*K-55	--	do	Killinger Drilling Co.	1956	133	8	RG	--	--	J,E, 1	P	Cased to bottom. Slotted from 102 to 133 ft.
*K-56	353 <sup>1/2</sup>	Soloman Chapa	S. de Luna	1929	87	3	RG	48	Aug. 1933	C,W	D,S	Cased to bottom.
*K-57	354 <sup>1/2</sup>	David Chapa	Juan Cavazos	1924	90	5	RG	--	--	C,W	D,S	Cased to bottom. Water from sandstone.
*K-58	614 <sup>1/2</sup> P-102 <sup>1/2</sup>	M. C. Hanson	A. D. Killinger	1938	243	4	RG	47	Aug. 1939	--	D	Drilled to 278 ft. Cased to 243 ft. <u>6/</u>
*K-59	355 <sup>1/2</sup>	Mrs. D. Lowry	--	--	138	6	RG	37	Aug. 1933	C,W	D,S	
*K-60	--	John P. Waite	Bert Killinger	1957	50	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 40 to 50 ft.
K-61	--	do	do	1957	44	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 34 to 44 ft. Pump set at 41 ft.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
K-62	--	T. B. Waite, Jr.	Bert Killinger	1956	42	16	RG	6	1957	T,B, 77	Irr	Cased to bottom. Slotted from 32 to 42 ft.
K-63	--	do	do	1956	44	12	RG	--	--	--	N	Cased to bottom. Reported water salty. Abandoned.
K-64	--	Showers Estate	Camlor Well Service	1948	280	5	RG	30	1950	--	N	Drilled to 957 ft. Cased to 280 ft. Slotted from 227 to 242 ft., and 248 to 280 ft. Reported yield small. 5/
*K-65	357 <sup>1/2</sup>	Showers Estate	--	--	153	5	RG	14	Aug. 1933	C,W	S	
*K-66	--	Floyd Everhart	Pursley Drilling Co.	1956	335	16	RG	40	1957	T,B	Irr	Drilled to 420 ft. Cased to 335 ft. Slotted from 176 to 212 ft., 236 to 270 ft., and 292 to 330 ft. Reported yield 850 gpm. 5/
K-67	--	L. C. Rentfree	--	1953	383	12	RG	62.6	Sept. 16, 1957	T,G	Irr	Cased to bottom. Slotted from 340 to 380 ft. 10-in. 13 stage pump set at 180 ft. 5/
K-68	--	do	--	1953	350	16	RG	60	Sept. 1957	T,G	Irr	Drilled to 390 ft. Cased to 350 ft. Slotted from 230 to 250 ft., and from 320 to 350 ft. 12-in. 14 stage pump set at 210 ft.
K-69	--	Lynn Citrus Groves	--	1953	400	12	RG	--	--	T,G	Irr	Cased to bottom. 5/
K-70	--	do	--	1953	405	12	RG	--	--	--	N	Reported water salty. Abandoned. 5/
K-71	--	Herman Bartlett	--	1953	360	12	RG	--	--	T,G	Irr	Cased to bottom. Reported yield 1,000 gpm. 5/
*K-72	--	City of Mission	Henry Cleveland	1953	412	20, 14	RG	69.3	Mar. 5, 1957	T,E, 75	P	Cased to 194 ft. with 20-in. casing 14-in. casing from 194 to 412 ft. Slotted from 290 to 412 ft. Gravel-packed. Pump set at 250 ft. 5/
K-73	--	R. C. Hausinger	A. D. Killinger	1948	380	--	--	--	--	--	N	Irrigation test. Reported water salty. 5/
*K-74	360 <sup>1/2</sup>	L. V. Williams	Bert Killinger	1931	40	4	RG	22	Aug. 1933	C,W	D,S	Water from gravel.
K-75	--	S. M. Duffie	--	--	60	--	RG	--	--	--	--	

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*K-76	362 <sup>1/</sup>	Mrs. H. K. Wood	O. C. Wood	1918	44	5	RG	24	July 1933	C,W	D,S	Cased to bottom. Water from gravel.
*K-77	363 <sup>1/</sup>	do	do	1931	60	60	RG	10.9	Sept. 1, 1939	T,G	Irr	Cased to bottom. Reported yield 450 gpm. Irrigates 40 acres.
*K-78	--	R. C. Vollmer	--	1912	117	4	RG	18.6	June 24, 1945	C,W	D,S	
*K-79	--	do	F. Burrhus	1933	90	10, 8	RG	20	1933	T,G	Irr	Cased to bottom.
K-80	--	J. M. Crom	Bert Killinger	1956	100	16	RG	--	--	T,B, 75	Irr	Cased to bottom. Slotted from 88 to 100 ft.
*K-81	--	do	Gene Liberty	1953	116	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 110 to 116 ft. Reported yield 1,500 gpm.
K-82	--	Gerald Langford	Arlis Killinger	--	118	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 96 to 117 ft. 6/
K-83	--	Norton Boyd	A & T Drilling Co.	1953	100	16	RG	30.7	Sept.11, 1957	T,G	Irr	Cased to bottom. Slotted from 84 to 100 ft. Reported yield 2,500 gpm. Reported water salty.
*K-84	--	do	A. D. Killinger	1940	215	4, 2	RG	16	1940	C,W, G,1 <sup>1/2</sup>	D,S	Cased to bottom. Water from sand and gravel.
K-85	--	Jack Morgan	Bert Killinger	1953	102	16	RG	30.2	Sept.11, 1957	T,G	Irr	Cased to bottom. Slotted from 90 to 102 ft. Pump set at 90 ft.
K-86	--	McAllen Fruit & Vegetable Co.	do	--	102	16	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 90 to 102 ft. Water from gravel.
K-87	--	State of Texas	do	--	150	4	RG	--	--	T,E	D, Irr	Drilled to 550 ft. Cased to 150 ft. Pump set at 80 ft. Water from gravel. 5/
K-88	--	do	A. D. Killinger	--	90	4	RG	--	--	J,E	P,D	Drilled to 104 ft. Cased to 90 ft. Pump set at 60 ft.
K-89	--	Bentsen Bros.	Pursley Drilling Co.	1953	106	--	RG	34.2	Sept.11, 1957	T,E, 60	Irr	Cased to bottom. Slotted from 82 to 106 ft. Pump set at 80 ft.
K-90	--	McAllen Fruit & Vegetable Co.	Bert Killinger	1953	102	16	RG	29.1	do	T,G	Irr	Cased to bottom. Slotted from 90 to 102 ft. Pump set at 90 ft.
*K-91	--	Marshall Terry	do	1952	98	12	RG	22	Aug. 1953	T,B, 110	Irr	Cased to bottom. Slotted from 78 to 98 ft. Irrigates 150 acres.

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
K-92	--	Baldrige & Son	Jim Baldrige	1957	98	16	RG	22.1	Sept.11, 1957	T	Irr	Drilled to 100 ft. Cased to 98 ft. Slotted from 86 to 98 ft. Pump set at 80 ft.
K-93	--	F. Yturria	Gene Liberty	1956	125	16	RG	--	--	T,G, 75	Irr	Cased to bottom. Slotted from 115 to 125 ft. Water from gravel.
K-94	--	W. Wallace	--	1953	97	12	RG	--	--	T,E, 75	Irr	Cased to bottom. Slotted from 67 to 97 ft. Reported yield 1,400 gpm. Reported 2,280 ppm total solids.
K-95	--	Central Power & Light Co.	Layne-Texas Co.	1956	439	--	--	--	--	--	N	Industrial test. 5/
K-96	--	do	do	1956	484	--	--	--	--	--	N	do.
K-97	--	do	do	1956	460	--	--	--	--	--	N	do.
*K-98	--	Sabardo Chaps	Sabardo Chaps	1943	58	3	RG	25.5	May 30, 1945	C,W	D,S	
*K-99	--	Cornelio Ochoa	--	--	80	3	RG	22.7	do	H	D,S	
K-100	--	Block & Wallace	Bert Killinger	1953	110	16	RG	--	--	T,-	Irr	Drilled to 127 ft. Cased to 110 ft. Slotted from 70 to 110 ft. Unused.
K-101	--	Juan Mercado	Arlis Killinger	1957	91	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 73 to 91 ft. Water from gravel.
*K-102	--	E. B. Reyna	Bert Killinger	1956	92	16	RG	21.2	Sept.11, 1957	T,B, 55	Irr	Cased to bottom. Slotted from 78 to 92 ft. Pump set at 80 ft.
K-103	--	P. H. Longoria	do	1956	89	14	RG	20.8	do	T,E, 60	Irr	Cased to bottom. Slotted from 81 to 89 ft. Pump set at 70 ft. Reported yield 1,600 gpm.
*K-104	--	T. L. Osborne	Jim Baldrige	1957	86	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 79 to 86 ft.
K-105	--	P. H. Longoria	Bert Killinger	1953	89	16	RG	24.4	Sept.11, 1957	T,B, 44	Irr	Cased to bottom. Slotted from 81 to 89 ft. Pump set at 70 ft. Reported yield 950 gpm.
K-106	--	W. A. Graham	--	1953	107	12	RG	--	--	T,B	Irr	Cased to bottom. Irrigates 220 acres.
K-107	--	V. G. Chappa well 2-A	Royal Oil & Gas Corp.	1940	4,121	--	--	--	--	--	--	Oil test. 5/

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
K-108	--	Daskam well 1	B. H. King et al.	1938	4,830	--	--	--	--	--	--	Oil test. <sup>5/</sup>
K-109	--	Temple W. West et al. well 11	Houston Oil Co. of Texas & American Republic Corp.	1953	6,278	--	--	--	--	--	--	do
K-110	--	Brock & Showers well 1	Gato Oil Co.	1935	5,025	--	--	--	--	--	--	
*L-1	280 <sup>1/2</sup>	G. W. B. Garrett	E. Newbro	1928	241	4	RG	114	Aug. 1933	C,W	D,S	Cased to bottom.
*L-2	281 <sup>1/2</sup>	W. H. Wycoff	--	1930	248	4	RG	96	do	C,W	D,S	
*L-3	282 <sup>1/2</sup>	A. H. Wicks	--	1925	123	4	RG	60	do	C,W	S	Cased to bottom. Reported water salty.
*L-4	283 <sup>1/2</sup>	Lee Hawkins	--	1915	175	4	RG	58 46.5	Aug. 1933 May 22, 1945	C,W	D,S	
*L-5	285 <sup>1/2</sup>	Shary Estate	--	--	150	4	RG	49 39.3	Aug. 1933 May 22, 1945	C,W	D,S	
*L-6	--	Wm. Schoening	W & W Drilling Co.	1953	242	12	RG	33.1	Mar. 5, 1957	T,B, 72	Irr	Cased to bottom. Slotted from 70 to 100 ft. and from 192 to 242 ft. 3 stage pump set at 140 ft. Reported yield 1,100 gpm. Irrigates 60 acres. Temp. 76°F. <sup>5/</sup>
*L-7	284 <sup>1/2</sup>	W. B. Beard	Bert Killinger	1929	50	4	RG	36	Aug. 1933	C,W	D,S	Cased to bottom. Water from fine-grained gravel.
L-8	--	Olney J. Dean	do	1953	1,100	12, 8	G?	73	Mar. 1957	T,B	Irr	Cased to bottom. Slotted below 800 ft. Pump set at 180 ft. <sup>5/</sup>
L-9	--	Bentsen Bros.	Camlor Well Service	1952	839	12	G?	36.1	Mar. 5, 1957	--	N	Cased to bottom. Slotted from 818 to 839 ft. Once used for irrigation. Abandoned. <sup>5/</sup>
L-10	--	Frank Reising	Pursley Drilling Co.	1948	809	12	G?	--	--	J,E	D,S	Cased to bottom. Drilled for irrigation. <sup>5/</sup>
L-11	300 <sup>1/2</sup>	G. Calloway	--	1913	70	4	RG	8	July 1933	C,W	S	Cased to bottom. Reported water salty.
*L-12	294 <sup>1/2</sup>	Mrs. M. Ross	A. Willingham	1924	118	4	RG	--	--	C,W	D,S	Cased to bottom. Water from gravel.
*L-13	302 <sup>1/2</sup>	E. Short	do	1926	128	4	RG	6 25	May 1933 Aug. 1933	C,W	D,S	Cased to bottom. Water from sand.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*L-14	--	C. W. McMillon	Pursley Drilling Co.	1952	297	16	RG	21	Sept. 1957	T,G, 100	Irr	Cased to bottom. Slotted from 243 to 297 ft. 2 stage pump set at 120 ft. Reported yield 1,700 gpm. Irrigates 80 acres. Sells water. $\frac{5}{6}$
*L-15	--	I. S. Knops	do	1952	298	12	RG	6	1952	T,B, 65	Irr	Cased to bottom. Slotted from 223 to 298 ft. 12-in. 3 stage pump set at 210 ft. Reported yield 1,000 gpm. Irrigates 150 acres. Sells water. $\frac{5}{6}$
L-16	--	Geo. Eby	--	1953	458	--	--	--	--	--	N	Irrigation test. $\frac{5}{6}$
L-17	--	Richard Vitosh	--	1953	450	--	--	--	--	--	N	do.
L-18	--	do	--	1953	245	12	RG	--	--	T,Ng	Irr	Drilled to 330 ft. Cased to 245 ft. Pump set at 145 ft. $\frac{5}{6}$
L-19	--	O. W. Robinson	Pursley Drilling Co.	1953	356	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 220 to 356 ft. Temp. 76°F. $\frac{5}{6}$
*L-20	296 $\frac{1}{2}$	Frank Brady	--	1930	90	4	RG	25	June 1933	C,E	S	
*L-21	297 $\frac{1}{2}$	A. B. McAfee	--	1929	194	4	RG	7	Aug. 1933	C,W	D,S	
L-22	--	H. F. Potts	Pursley Drilling Co.	--	255	16	RG	14.2	Sept. 17, 1957	J,E, $\frac{5}{6}$	D,S	Cased to bottom. Slotted from 200 to 253 ft. Once used for irrigation.
L-23	--	do	do	--	217	16	RG	8.6	do	--	N	Cased to bottom. Slotted from 196 to 217 ft. Reported water salty. Abandoned.
L-24	--	John Wiesehan	Gene Liberty	1953	285	12	RG	23.7	Mar. 5, 1957	--	N	Drilled to 580 ft. Cased to 285 ft. Slotted from 110 to 150 ft., and from 260 to 285 ft. Reported water salty. Abandoned. $\frac{5}{6}$
*L-25	605 $\frac{1}{2}$ Q-432 $\frac{1}{2}$	Bentzen Bros.	A. K. Killinger	1938	537	3	RG	16	Aug. 1939	C,E	D	Cased to bottom. $\frac{5}{6}$
L-26	--	Lance Bevil	Buddy Parker	1953	270	12	RG	--	--	T,Ng	Irr	Drilled to 398 ft. Cased to bottom. Slotted from 200 to 270 ft. Reported yield 1,600 gpm. $\frac{5}{6}$
L-27	--	Paul Hallock	Gene Liberty	1953	519	16, 14	RG	33.5	Sept. 17, 1957	T,B	Irr	Cased to bottom. Slotted from 390 to 519 ft. 3 stage pump set at 200 ft. Irrigates 200 acres. Temp. 82°F. $\frac{5}{6}$

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
L-28	--	E. R. Baird	Arlis Killinger	1953	140	10	RG	24	1956	T,B, 46	Irr	Cased to bottom. Slotted from 117 to 140 ft. 4 stage pump set at 90 ft.
*L-29	--	E. M. Bradbury	--	--	38	4	RG	--	--	J,E	D,S	Cased to bottom. Open end.
L-30	--	Whittenberg Estate	Pursley Drilling Co.	1953	426	12	RG	23.5	Sept. 17, 1957	T,Ng, 77	Irr	Cased to bottom. 5/
*L-31	--	Francis Jensen	Bert Killinger	1956	121	10	RG	18	1956	Cf,G	Irr	Cased to bottom. Irrigates 80 acres. Sells water.
*L-32	--	Mrs. P. J. Sweeney	do	1925	68	4	RG	33.4	Oct. 4, 1957	--	N	Cased to bottom. Water from gravel. Abandoned.
*L-33	--	Bill Hines	--	1918	98	4	RG	27.5	May 21, 1945	J,E	D,S	Cased to bottom. Open end.
*L-34	--	H. T. Klatt	Elmer Ray	1932	114	12	RG	38	May 1945	T,G 40	Irr	Cased to bottom.
*L-35	288 <sup>1/2</sup>	C. Knadle	--	1918	102	6	RG	55 32.7	1933 May 21, 1945	C,W	D,S	Reported water salty.
*L-36	292 <sup>1/2</sup>	Mrs. Louise Hunt	--Colbath	1933	35	5	RG	6	Aug. 1933	C,W	D,S	Cased to bottom. Open end.
*L-37	291 <sup>1/2</sup>	Mrs. J. S. Lyons	John Moore	1930	55	5	RG	43	Aug. 1933	C,G	D,S	do.
L-38	--	Shary Estate	A & T Drilling Co.	1947	290	4	RG	41.4	Sept. 7, 1957	T,-	N	Drilled to 1,510 ft. Cased to 290 ft. 5/
L-39	--	Reint Reike	Reint Reike	1956	75	12	RG	28	1956	T,G	Irr	Drilled to 89 ft. Cased to 75 ft. Slotted from 28 to 75 ft.
L-40	--	R. W. Kirby	Elmer Ray	1953	109	12	RG	36	1953	T,B, 56	Irr	Cased to bottom. Slotted from 60 to 109 ft. Irrigates 40 acres.
*L-41	--	F. D. McLain	--Duke	1953	153	14	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 120 to 150 ft. 3 stage pump set at 140 ft. Reported yield 1,500 gpm. 5/
L-42	--	Barrera Nursery	Pursley Drilling Co.	1953	151	6	RG	39.9	Sept. 17, 1957	J,E	Irr	Cased to bottom. Slotted from 130 to 151 ft.
L-43	--	E. M. Olson	--Duke	1952	198	16	RG	46.8	do	T,B	Irr	Cased to bottom. Slotted from 177 to 198 ft.
L-44	Q-30 <sup>2/2</sup>	M. L. O'Neill	Bert Killinger	1953	450	10	RG	57	1953	T,G, 145	Irr	Drilled to 597 ft. Cased to 450 ft. Slotted from 300 to 450 ft. Reported yield 1,200 gpm. Reported total solids 2,400 ppm. 5/

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
L-45	D-29 <sup>2</sup> / <sub>1</sub>	C. B. Amyx	Pursley Drilling Co.	1953	488	16, 10	RG	80	1953	T,B, 70	Irr	Cased to bottom. Slotted from 232 to 300 ft; 340 to 380 ft; 400 to 423 ft; and from 468 to 488 ft. Pump set at 180 ft. <u>5</u> / <sub>1</sub>
L-46	--	Weldon Tisdale	Bert Killinger	1957	316	12	RG	30	1957	T,B	Irr	Cased to bottom. Slotted from 236 to 316 ft. Irrigates 40 acres. <u>6</u> / <sub>1</sub>
*L-47	365 <sup>1</sup> / <sub>1</sub>	Mrs. G. F. Gray	--	1925	265	4	RG	49	Aug. 1933	C,W	S	Cased to bottom.
L-48	--	John Bannworth	Virdell Drilling Co.	1953	309	16	RG	32.3	Mar. 5, 1957	T,B	Irr	Cased to bottom. Slotted from 239 to 309 ft. 10-in. 3 stage pump set at 180 ft. <u>5</u> / <sub>1</sub>
*L-49	608 <sup>1</sup> / <sub>1</sub> Q-42 <sup>2</sup> / <sub>1</sub>	A. T. Patterson	A. D. Killinger	1938	354	4	RG	28	Aug. 1939	--	--	Cased to bottom. <u>6</u> / <sub>1</sub>
L-50	--	W. R. McClendon	--	1953	234	12	RG	34.6	Mar. 5, 1957	--	N	Cased to bottom. Reported water salty. <u>5</u> / <sub>1</sub>
L-51	--	C. A. Townsend	Virdell Drilling Co.	1953	240	16	RG	--	--	T	Irr	Drilled to 300 ft. Cased to bottom. Slotted from 100 to 120 ft. and from 200 to 240 ft. Reported yield 1,500 gpm. <u>5</u> / <sub>1</sub>
*L-52	--	Ralph Veazey	Bugh Cole	1953	87	4	RG	39	1953	J,E, 1 $\frac{1}{2}$	D,S	Cased to bottom. Slotted from 84 to 87 ft. Pump set at 63 ft.
L-53	--	Art Bannworth	A. D. Killinger	1953	280	4	RG	--	--	--	N	Drilled to 420 ft. Cased to 280 ft. Slotted from 260 to 280 ft. Reported water salty. Abandoned. <u>5</u> / <sub>1</sub>
L-54	--	R. W. Forsyth	--	1953	155	14	RG	--	--	T,B	Irr	Cased to bottom. 12-in. 3 stage pump set at 150 ft.
*L-55	--	Davis & Gandy	Pursley Drilling Co.	1957	486	16	RG	29.2	Mar. 27, 1957	T,G	Irr	Cased to bottom. Slotted from 266 to 306 ft., and from 346 to 486 ft. <u>5</u> / <sub>1</sub>
L-56	--	R. D. McCall	Hayvanor Drilling Co.	1957	362	12	RG	--	--	--	N	Drilled to 374 ft. Cased to 362 ft. Slotted from 150 to 180 ft.; 242 to 268 ft.; 290 to 320 ft.; and from 350 to 362 ft. Reported water salty. Abandoned. <u>5</u> / <sub>1</sub>
L-57	--	Pat DeMambo	Gene Liberty	1957	403	12	RG	--	--	T,B	Irr	Drilled to 403 ft. Cased to 390 ft. Slotted from 285 to 390 ft. Reported total solids 1,300 ppm. <u>5</u> / <sub>1</sub>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*L-58	--	Moore Canning Co.	A & T Drilling Co.	1946	512	12	RG	80	1954	T,E, 75	Ind	Cased to bottom. Screen from 422 to 512 ft. Pump set at 210 ft. Reported yield 815 gpm. <u>5/</u>
*L-59	Q-51 <u>2/</u>	City of McAllen	Layne-Texas Co.	1953	408	14, 12	RG	70	1954 Mar.	T,Ng, 144	P	Drilled to 470 ft. Cased to 408 ft. Screen from 308 to 408 ft. 12-in. 7 stage pump set at 307 ft. Measured yield 1,230 gpm. Drawdown 152 ft. <u>5/ 6/</u>
*L-60	398 <u>1/</u>	O. T. Yates	--	1927	194	4	RG	19	1953 June	C,W	D,S	Cased to bottom.
L-61	--	Kraft & Co.	Pursley Drilling Co.	1957	274	16	RG	--	--	T,Ng	Irr	Drilled to 282 ft. Cased to 274 ft. Slotted from 220 to 274 ft. Pump set at 140 ft. Reported yield 1,500 gpm. Irrigates 55 acres.
L-62	--	John Wiesehan	Gene Liberty	1952	265	16	RG	31.4	Mar. 5, 1957	T,B	Irr	Drilled to 290 ft. Cased to 265 ft. Slotted from 230 to 265 ft. <u>5/</u>
*L-63	396 <u>1/</u>	W. D. Gray	--	1929	80	4	RG	14.5	May 28, 1945	C,W	D,S	Cased to bottom. Water from sand.
L-64	--	I. S. Knops	Pursley Drilling Co.	1953	305	16	RG	--	--	T,Ng	Irr	Drilled to 328 ft. Cased to bottom. Slotted from 250 to 305 ft. Pump set at 190 ft. Reported yield 1,300 gpm. Irrigates 150 acres. Temp. 80°F. <u>5/</u>
L-65	--	--Holliday	do	1953	275	18	RG	--	--	T,Ng, 150	Irr	Cased to bottom. Slotted from 200 to 275 ft. 12-in. pump set at 160 ft. Reported yield 1,800 gpm. <u>5/</u>
L-66	--	Wayne Courts	Elmer Ray	1953	254	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 205 to 250 ft. 8-in. pump set at 90 ft. Irrigates 80 acres.
L-67	Q-21 <u>2/</u>	Vannie E. Cook, Jr.	Pursley Drilling Co.	1953	280	16	RG	31	May 1954	T,Ng	Irr	Drilled to 425 ft. Cased to 280 ft. Slotted from 220 to 280 ft. Pump set at 180 ft. <u>5/</u>
*L-68	--	City of McAllen	Gene Liberty	1953	270	14	RG	46	1953	T,Ng, 120	P	Drilled to 450 ft. Cased to 270 ft. Slotted from 180 to 270 ft. Pump set at 248 ft. Measured yield 1,400 gpm. Drawdown 78 ft. <u>5/</u>
*L-69	Q-22 <u>2/</u>	do	do	1953	420	16	RG	64	1953	T,Ng, 172	P	Drilled to 470 ft. Cased to 420 ft. Slotted from 320 to 420 ft. Pump set at 330 ft. Reported yield 1,036 gpm. <u>5/</u>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
L-70	Q-48 <sup>2</sup> / <sub>2</sub>	Coastal Refining Co.	Cumlor Well Service	1949	523	10	RG	30	1951	T,E, 15	Ind	Drilled to 730 ft. Cased to bottom. Screen from 400 to 523 ft. Reported yield 800 gpm. Daily usage 175,000 gallons. <sup>5</sup> / <sub>2</sub>
L-71	--	Snowden Bros.	Elmer Ray	1953	258	12	RG	--	--	T,NG	Irr	Cased to bottom. Slotted from 200 to 258 ft. 10-in. pump set at 120 ft. Irrigates 150 acres.
L-72	--	F. T. Mahoney	--Kennebrew	1953	290	16	RG	--	--	T,NG	Irr	Drilled to 305 ft. Cased to 290 ft. Slotted from 180 to 220 ft., and from 240 to 290 ft. Pump set at 165 ft. Reported yield 1,300 gpm. <sup>5</sup> / <sub>2</sub>
*L-73	Q-4 <sup>2</sup> / <sub>2</sub>	L. M. Beamsley	Fursley Drilling Co.	1953	285	14	RG	--	--	T,NG	Irr	Drilled to 418 ft. Cased to bottom. Slotted from 200 to 285 ft. Pump set at 235 ft. Reported yield 1,600 gpm. Irrigates 200 acres. <sup>5</sup> / <sub>2</sub>
*L-74	399 <sup>2</sup> / <sub>2</sub>	Ada R. Sigrist	--	1915	80	4	RG	17.5 16.6	June 14, 1933 May 28, 1945	C,W	D,S	Cased to bottom.
L-75	--	Paul Eby	Fursley Drilling Co.	1953	310	16	RG	--	--	T,NG, 165	Irr	Drilled to 397 ft. Cased to bottom. Slotted from 240 to 310 ft. Pump set at 140 ft. <sup>5</sup> / <sub>2</sub>
*L-76	--	Cleve Parish	Virdeil Drilling Co.	1952	290	16	RG	13	1952	T,NG, 120	Irr	Drilled to 300 ft. Cased to 290 ft. Slotted from 265 to 290 ft. 14-in. 3 stage pump set at 170 ft. Irrigates 240 acres.
*L-77	409 <sup>2</sup> / <sub>2</sub>	H. R. Giles	--	1925	76	4	RG	14	1933	C,W	D,S	Cased to bottom.
L-78	Q-9 <sup>2</sup> / <sub>2</sub>	R. O. Arnold	Fursley Drilling Co.	1952	405	16	RG	--	--	T,G, 100	Irr	Cased to bottom. Water from sand. Temp. 81°F.
L-79	Q-12 <sup>2</sup> / <sub>2</sub>	F. Metlock	--	1953	380	12	RG	21	May 1954	T,B	Irr	Cased to bottom. <sup>5</sup> / <sub>2</sub>
L-80	Q-14 <sup>2</sup> / <sub>2</sub>	J. F. Bailey	--	1952	343	12	RG	--	--	T,B	Irr	do.
L-81	Q-7 <sup>2</sup> / <sub>2</sub>	E. R. Russell	Virdeil Drilling Co.	1953	280	16	RG	20	1953	T,E, 125	Irr	Drilled to 337 ft. Cased to 280 ft. Screen from 240 to 280 ft. Measured yield 2,462 gpm. 12-in. 5 stage pump set at 200 ft. <sup>5</sup> / <sub>2</sub>

See footnotes at end of table.

Table 4:--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of Water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
L-82	--	A. F. Shere	Arlis Killinger	1953	305	16	RG	36	1957	T,Ng	Irr	Cased to bottom. Slotted from 247 to 302 ft. Reported yield 1,800 gpm. Irrigates 200 acres. $\frac{5}{6}$
*L-83	402 $\frac{1}{2}$	City of Pharr	A & T Drilling Co.	1953	315	16	RG	50	1953	T,E, 75	P	Drilled to 400 ft. Cased to bottom. Slotted from 210 to 240 ft., and from 260 to 312 ft. Pump set at 200 ft. Reported yield 1,200 gpm. Drawdown 90 ft. $\frac{5}{6}$
L-84	--	Morre Citrus Groves	Alexander & Cobb	1953	253	16	RG	66.9	Sept. 17, 1957	T,Ng	Irr	Drilled to 300 ft. Cased to bottom. Slotted from 205 to 253 ft. Pump set at 200 ft. Reported yield 1,200 gpm. $\frac{5}{6}$
*L-85	--	Linnard Bros.	Pursley Drilling Co.	1953	258	12	RG	30	1953	T,B	Irr	Cased to bottom. Slotted from 228 to 258 ft. Pump set at 150 ft. Irrigates 100 acres. $\frac{5}{6}$
L-86	--	McAllen Pipe & Supply Co.	do	1953	295	12	RG	--	--	--	N	Cased to bottom. Reported yield 400 gpm. Abandoned. $\frac{5}{6}$
*L-87	408 $\frac{1}{2}$	E. E. Richey	--	1924	86	5	RG	19.2	May 23, 1945	C,W	D,S	Cased to bottom.
*L-88	405 $\frac{1}{2}$	J. H. Smith	Ned Wells	1916	86	4	RG	26 21.0	Aug. 1933 May 21, 1945	C,W	D,S	Cased to bottom. Water from gravel.
L-89	--	McAllen Country Club	Pursley Drilling Co.	1956	247	16	RG	55.6	Sept. 9, 1957	T,Ng	P,Irr	Cased to bottom. Slotted from 180 to 247 ft. Pump set at 150 ft. Reported yield 900 gpm.
*L-90	--	John Weisban	Gene Liberty	1957	250	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 220 to 248 ft. Temp. 78.5°F.
L-91	--	Sugartex Corp.	Allan Beeson	1944	190	12	RG	20	1953	T,E, 20	Ind	Drilled to 350 ft. Cased to 190 ft. Water from sand and gravel. Reported yield 500 gpm.
L-92	--	Southern Foods Inc.	A & T Drilling Co.	1946	381	10, 7	RG	22	1953	T,E, 25	Ind	Drilled to 410 ft. Cased to 381 ft. Screen from 290 to 381 ft. Reported yield 550 gpm.
L-93	--	St. Claire Canning Co.	do	1946	208	8, 6	RG	25	1953	T,E, 40	Ind	Cased to bottom. Screen from 82 to 122 ft., and from 160 to 208 ft. Reported yield 150 gpm.
*L-94	402 $\frac{1}{2}$	A. B. Cockrell	--	--	65	4	RG	8 3.2	Aug. 1933 May 23, 1945	C,W	D,S	

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*L-95	392 <sup>1/2</sup>	W. H. Jordan	Juan Vela	1933	50	4	RG	12 8.8	Aug. 1933 May 23, 1945	C,W	D,S	Cased to bottom. Water from gravel.
L-96	--	Herbert Worff	--	1947	201	10	RG	--	--	T,G	Irr	Cased to bottom. Pump set at 60 ft.
L-97	--	John Weisehan	Gene Liberty	1954	245	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 205 to 245 ft. Irrigates 80 acres.
L-98	P-13 <sup>2/2</sup>	V. E. Neuhaus	A. D. Killinger	1949	311	8	RG	--	--	T,E	D,S	Drilled to 780 ft. Cased to 311 ft. Slotted from 296 to 311 ft. <sup>5/</sup>
L-99	--	Lloyd Bentsen, Jr.	Camlor Well Service	1952	311	16	RG	--	--	T,E, 15	D	Cased to bottom. Screen from 265 to 311 ft. <sup>5/</sup>
*L-100	383 <sup>1/2</sup> Q-69 <sup>2/2</sup>	C. E. Schwanz	Elmer Ray	1931	67	8	RG	12.0	Oct. 31, 1957	T,G	Irr	Cased to bottom. Slotted from 55 to 67 ft. <sup>6/</sup>
L-101	--	Willadel Citrus Groves	Gene Liberty	1949	448	4	RG	--	--	J,E, 1	D,S	Cased to bottom. Slotted from 427 to 448 ft. <sup>5/</sup>
*L-102	382 <sup>1/2</sup>	do	Elmer Ray	1930	55	12	RG	6.2	June 1, 1945	T,G	Irr	Cased to bottom. Reported yield 1,000 gpm. Irrigates 85 acres.
L-103	--	J. M. Lokey	--	--	90	10	RG	--	--	Cf,G	Irr	Cased to bottom. Slotted from 50 to 90 ft. Water from gravel.
L-104	--	Lloyd Bentsen, Sr.	Camlor Well Service	1952	210	20, 13	RG	--	--	T,G	Irr	Drilled to 240 ft. Cased to 210 ft. Screen from 100 to 210 ft. <sup>5/ 6/</sup>
*L-105	387 <sup>1/2</sup>	H. J. Gants	Elmer Ray	1930	68	6	RG	18	Aug. 1933	Cf,G	Irr	Cased to bottom. Irrigates 20 acres.
*L-106	389 <sup>1/2</sup>	H. W. Grover	do	1932	72	10	RG	11	do	T,G	Irr	Cased to bottom. Irrigates 55 acres. <sup>6/</sup>
*L-107	--	E. Waibel	--	--	42	4	RG	7.1	Mar. 24, 1945	C,W	D	Cased to bottom.
L-108	--	A. L. Hart	--	1953	440	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 346 to 440 ft. Pump set at 210 ft. Reported yield 400 gpm. <sup>5/</sup>
*L-109	--	Mrs. Lucille Bryant	John Brown	1944	65	6	RG	17	May 1945	Cf,G, 41	Irr	Cased to bottom. Reported yield 1,000 gpm. Irrigates 20 acres.
*L-110	377 <sup>1/2</sup>	E. Reese Estate	W. Newhouse	1932	75	14	RG	14	Aug. 1933	T,G	Irr	Cased to bottom. Reported yield 800 gpm. Irrigates 80 acres.
L-111	--	R. D. McCall	Hayvanor Drilling Co.	1953	355	12	RG	--	--	T,G	Irr	Cased to bottom. Reported total solids 990 ppm. <sup>5/</sup>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
L-112	--	Willadel Citrus Groves	Gene Liberty	1947	313	12	RG	--	--	T,E, 50	Irr	Cased to bottom. 5/
*L-113	374 <sup>1</sup> / <sub>1</sub>	Boyd & Bois	Elmer Ray	1933	98	10	RG	19	Aug. 1933	Cf,G	Irr	Cased to bottom. Reported yield 700 gpm. Irrigates 80 acres.
*L-114	372 <sup>1</sup> / <sub>1</sub>	Melba C. Carter	W. Newhouse	1932	92	6	RG	16	do	Cf,G	Irr	Cased to bottom. Reported yield 400 gpm. Irrigates 135 acres.
L-115	371 <sup>1</sup> / <sub>1</sub> Q-58 <sup>2</sup> / <sub>2</sub>	H. F. Peterson	F. Burrhus	1932	86	8	RG	12	do	Cf,G	Irr	Cased to bottom. Reported yield 400 gpm. Irrigates 36 acres. 5/
*L-116	Q-57 <sup>2</sup> / <sub>2</sub>	City of Mission	Pursley Drilling Co.	1953	363	16	RG	28.9	Sept. 24, 1953	T,E, 75	P	Drilled to 681 ft. Cased to 363 ft. Slotted from 270 to 363 ft. Pump set at 250 ft. Reported yield 750 gpm. 5/
*L-117	--	do	Elmer Ray	1953	361	16	RG	--	--	T,E, 100	P	Cased to bottom. Slotted from 260 to 361 ft. Pump set at 250 ft. Reported yield 900 gpm. 5/
*L-118	370 <sup>1</sup> / <sub>1</sub> Q-37 <sup>2</sup> / <sub>2</sub>	Crystal Water Swimming Pool	W. Woods	1926	68	24	RG	22	June 1933	T,G, 40	P	Cased to bottom. Reported yield 700 gpm. 5/
L-119	--	Percy Cornelius	--	--	110	10	RG	--	--	Cf,G	Irr	Cased to bottom.
L-120	--	Joe Carroll	Gene Liberty	1956	125	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 100 to 125 ft. 12-in. 2 stage pump set at 100 ft. Irrigates 250 acres.
*L-121	Q-40 <sup>2</sup> / <sub>2</sub>	D. D. Berry	D. D. Berry	1945	115	12	RG	18 30	July 1945 May 1954	T,G	Irr	Cased to bottom. Irrigates 40 acres. 5/
*L-122	379 <sup>1</sup> / <sub>1</sub>	Ernest Moreno	E. J. Bayse	1931	120	16	RG	17.5	Aug. 17, 1933	T,G	Irr	Cased to bottom. Reported yield 1,000 gpm. Irrigates 85 acres.
L-123	--	John Pollack	A. D. Killinger	1951	134	18	RG	34.3	Sept. 12, 1957	T,B, 80	Irr	Cased to bottom. Slotted from 74 to 134 ft. Reported yield 2,500 gpm. Irrigates 107 acres.
L-124	--	Shary Estate	do	--	260	12	RG	11.3	July 23, 1951	T,B, 75	Irr	Cased to bottom. Irrigates 100 acres.
*L-125	--	Russell E. Wald	--	1935	27	4	RG	7.4	June 15, 1945	C,W	D,S	
L-126	--	Shary Estate	Bert Killinger	--	80	16	RG	--	--	T,B, 100	Irr	Cased to bottom. Slotted from 68 to 80 ft.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*L-127	--	Russell Ewald	Russell Ewald	1939	90	10	RG	16	1939	Cf,G	Irr	Cased to bottom. Slotted from 71 to 90 ft. Reported yield 900 gpm.
*L-128	--	Lloyd Bentzen, Sr.	Pursley Drilling Co.	1956	205	16	RG	--	--	T,G, 75	Irr	Drilled to 283 ft. Cased to 205 ft. Slotted from 75 to 100 ft., and from 168 to 205 ft. $\frac{5}{2}$
L-129	--	Shary Estate	A. D. Killinger	1948	240	12	RG	11.4	July 23, 1951	T,B, 75	Irr	Drilled to 307 ft. Cased to 240 ft. Reported yield 900 gpm. Drawdown 108 ft.
*L-130	391 $\frac{1}{2}$	J. J. Carr	J. J. Carr	1930	100	8	RG	13	Aug.	Cf,G	Irr	Cased to bottom. Reported yield 250 gpm. Irrigates 5 acres. $\frac{5}{2}$
L-131	--	Willadel Citrus Groves	Gene Liberty	1947	235	10	RG	12	Aug.	T,G, 65	Irr	Cased to bottom. Slotted from 210 to 235 ft. Irrigates 80 acres.
L-132	--	J. L. Crump	Pursley Drilling Co.	1956	350	16	RG	--	--	T,B	Irr	Drilled to 371 ft. Cased to 350 ft. Slotted from 300 to 350 ft. Pump set at 240 ft. $\frac{5}{2}$
L-133	--	Shary well 1	A & T Drilling Co.	1947	1,510	--	--	--	--	--	--	$\frac{5}{2}$
L-134	--	A. B. Watson well 1	Continental Oil Co.	1949	8,501	--	--	--	--	--	--	Oil test. $\frac{5}{2}$
*M-1	309 $\frac{1}{2}$	C. B. Starr	--	1926	200+	3	RG	--	--	C,W	D,S	Cased to bottom.
*M-2	308 $\frac{1}{2}$	C. R. Fitzpatrick	--	1924	87	4	RG	8	Aug. 1933	C,W	D,S	do.
*M-3	313 $\frac{1}{2}$	W. L. Matthews	--	1924	65	3	RG	8.5	Aug. 1, 1933	C,W	D,S	
*M-4	--	Joe Holmes	Pursley Drilling Co.	1956	384	14	RG	--	--	T,G	Irr	Cased to bottom. $\frac{5}{2}$
*M-5	--	H. V. Smith	do	1953	360	12	RG	23.7	Sept. 11, 1957	T,G	Irr	Cased to bottom. Slotted from 320 to 360 ft. Pump set at 120 ft. Irrigates 200 acres.
M-6	312 $\frac{1}{2}$	Gulf Coast Orchards Co.	--	1925	119	4	RG	10	Aug. 1933	C,E	D,S	Cased to bottom.
*M-7	324 $\frac{1}{2}$	H. C. Aderhold	--	--	125	--	RG	20	do	C,W	D,S	
M-8	310 $\frac{1}{2}$	V. Z. Young	A. L. Willingham	1928	136	4	RG	7	do	H	S	Cased to bottom. Water from sand.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
M-9	--	Vernon Anthony	Pursley Drilling Co.	1952	263	8	RG	19.9	Sept. 11, 1957	T, B	Irr	Cased to bottom. Screen from 140 to 160 ft., and from 240 to 263 ft. Pump set at 130 ft. Irrigates 150 acres.
*M-10	311 <sup>1/2</sup>	E. Bader	--	1927	136	3	RG	9	Aug. 1933	H	D, S	Cased to bottom. Water from gravel.
M-11	--	M. S. Miller	Pursley Drilling Co.	1957	360	16	RG	20.4	Sept. 11, 1957	T, Ng	Irr	Cased to bottom. Slotted from 300 to 360 ft. Pump set at 170 ft.
*M-12	322 <sup>1/2</sup>	J. C. Tipps	A. L. Willingham	1926	147	--	RG	18.7	Aug. 26, 1933	H	D, S	
M-13	321 <sup>1/2</sup>	M. C. Carr	--	--	170	--	RG	--	--	H	D, S	
M-14	--	Frank Waters	--	1953	265	12	RG	21.8	Sept. 11, 1957	T, Ng	Irr	Cased to bottom.
*M-15	R-4 <sup>1/2</sup>	J. W. Wallace & Sons	Pursley Drilling Co.	1953	380	16	RG	--	--	T, Ng	Irr	Cased to bottom. 2/
M-16	--	J. L. DeWitt	Pat Farmer	1953	180	12	RG	17.8	Sept. 11, 1957	T, Ng	Irr	Cased to bottom. Slotted from 159 to 180 ft. 5/
M-17	R-5 <sup>2/2</sup>	J. W. Wallace & Sons	W. R. Woodruff	1952	380	12	RG	--	--	T, Ng	Irr	Cased to bottom. Slotted from 140 to 200 ft., and from 230 to 380 ft. Pump set at 180 ft. Irrigates 300 acres.
M-18	325 <sup>1/2</sup>	Engleman Gardens	--	--	200	6	RG	24.6	Aug. 23, 1933	C, W	D, S	Reported water salty.
M-19	--	Pat Farmer	Pat Farmer	1953	214	12	RG	--	--	T	Irr	Cased to bottom. Screen from 115 to 170 ft. Pump set at 110 ft. 6/
M-20	--	do	do	1953	204	12	RG	9.6	Sept. 12, 1957	T, Ng	Irr	Cased to bottom. Slotted from 149 to 204 ft. Pump set at 130 ft. 6/
M-21	--	Schwartz & Thomas	Pat Farmer	1953	313	--	RG	--	--	--	N	Cased to bottom. Slotted from 263 to 313 ft. Abandoned. 6/
M-22	--	do	do	1953	267	16	RG	17.1	Sept. 12, 1957	T, G	Irr	Cased to bottom. Slotted from 177 to 267 ft. Irrigates 400 acres. 6/
M-23	327 <sup>1/2</sup>	H. A. Yohey	--	--	13	48	RG	5	Aug. 1933	--	--	Dug.
*M-24	--	J. W. Wallace & Sons	Pursley Drilling Co.	1954	360	16	RG	--	--	T, Ng	Irr	Cased to bottom. Slotted from 130 to 220 ft., and from 250 to 360 ft. Pump set at 180 ft. Irrigates 300 acres.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Below land-surface datum (ft.)	Water level		Method of lift	Use of water	Remarks
									Date of Measurement				
M-25	--	Joe Holmes	--	--	365	10	RG	21.8	Oct. 22, 1957	T,G	Irr	Converted oil test. Cased to 365 ft. Water from sand. <u>5/</u>	
*M-26	--	J. W. Wallace & Sons	Pursley Drilling Co.	1953	235	16	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 140 to 235 ft. Pump set at 140 ft.	
M-27	--	do	do	--	235	16	RG	--	--	--	N	Cased to bottom. Reported water salty. Abandoned.	
M-28	--	A. O. Kolberg	--	1953	300	--	RG	--	--	T,B	Irr	<u>5/</u>	
M-29	--	Carl Berny	Pursley Drilling Co.	1953	170	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 148 to 170 ft. Pump set at 130 ft. Reported yield 1,400 gpm.	
M-30	--	do	Vardell Drilling Co.	1953	390	16	RG	--	--	T,G 130	Irr	Cased to bottom. Slotted from 350 to 390 ft. 14-in. 3 stage pump set at 160 ft. Reported yield 2,200 gpm. <u>5/</u>	
*M-31	315 <u>1/</u>	H. B. Swanson	--	1921	100	4	RG	5 4.7	Aug. 1933 May 31, 1945	C,W	D,S	Cased to bottom.	
M-32	--	Dale Geeslin	Pursley Drilling Co.	1952	360	12, 9	RG	24	Sept. 1957	T,B	Irr	Cased to bottom. Screen from 120 to 220 ft., and from 228 to 360 ft. Pump set at 119 ft. Irrigates 200 acres.	
*M-33	320 <u>1/</u>	E. S. Doughtie	--Withers	--	187	4	RG	24	Aug. 1933	C,W	S	Cased to bottom. Water from sand.	
M-34	--	H. V. Smith	Pursley Drilling Co.	1952	360	12, 8	RG	25.6	Sept. 11, 1957	T,G	Irr	Cased to bottom. Screen from 130 to 180 ft., and from 240 to 360 ft. Pump set at 128 ft. Irrigates 150 acres.	
*M-35	610 <u>1/</u> R-482 <u>1/</u>	H. F. Potts	A. D. Killinger	1939	253	3	RG	9	Aug. 1939	--	D	Cased to bottom. <u>6/</u>	
M-36	318 <u>1/</u>	Mrs. E. Hansen	Wm. Brewster	1917	123	3	RG	6	Aug. 1933	C,W	S	Cased to bottom. Reported water salty.	
M-37	--	Harold Pursley	Pursley Drilling Co.	1957	300	16	RG	--	--	T,G	Irr	Drilled to 402 ft. Cased to bottom. Slotted from 240 to 300 ft. Pump set at 150 ft. <u>5/</u>	
M-38	--	Tommy Levett	do	1953	370	16	RG	--	--	T,B, 110	Irr	Cased to bottom. Slotted from 140 to 200 ft., and from 250 to 360 ft. Pump set at 170 ft. Irrigates 550 acres.	
*M-39	R-592 <u>1/</u>	City of Edinburg	Ted Pursley	1953	349	16	RG	12	May 1954	T,E, 100	P	Drilled to 357 ft. Cased to 349 ft. Slotted from 170 to 349 ft. Pump set at 170 ft. Measured yield 1,700 gpm. <u>5/</u>	

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
M-40	306 <sup>1/</sup>	Mrs. R. P. Bouse	--	1919	96	6	RG	10	Aug. 1933	C,W	D,S	Cased to bottom.
*M-41	305 <sup>1/</sup>	F. H. Hull	Wm. Edwards	1920	120	4	RG	8.5	do	C,W	D,S	
*M-42	R-19 <sup>2/</sup>	H. A. Moore	Arlis Killinger	1952	377	12	RG	30 18	May 1952 1954	T,E	Irr	Cased to bottom. Screen from 277 to 377 ft. Measured yield 849 gpm. Irrigates 150 acres.
*M-43	412 <sup>1/</sup>	G. E. Alcott	Ned Wells	1929	96	4	RG	12	Aug. 1933	C,W	D,S	Cased to bottom. Water from sand and gravel.
M-44	R-20 <sup>2/</sup>	G. A. Bennett	A & T Drilling Co.	1953	309	12	RG	32	Mar. 1953	T,G	Irr	Drilled to 309 ft. Cased to bottom. Slotted from 147 to 167 ft. <u>5/ 6/</u>
M-45	R-41 <sup>2/</sup>	Gene Lewellyn	Pursley Drilling Co.	1953	387	12	RG	--	--	T,-	Irr	Cased to bottom. <u>5/</u>
M-46	--	K. P. Garfield	do	1953	320	16	RG	--	--	T,Ng	Irr	Drilled to 383 ft. Cased to bottom. Slotted from 230 to 320 ft. <u>5/</u>
*M-47	413 <sup>1/</sup>	--Aldrich	--	1920	120	4	RG	12	Aug. 1933	C,W	D,S	Cased to bottom.
M-48	--	Wayne Muir	Pursley Drilling Co.	1953	351	12	RG	--	--	T,-	Irr	Cased to bottom. <u>5/</u>
*M-49	414 <sup>1/</sup>	Peter Iverson	--	1918	79	4	RG	8	Aug. 1933	C,W	D,S	Cased to bottom.
*M-50	--	J. J. Daniels	Pursley Drilling Co.	1953	356	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 298 to 356 ft. <u>5/</u>
M-51	--	Frank Chestnut	Virdeil Drilling Co.	1953	362	12	RG	--	--	T,G, 87	Irr	Cased to bottom. Slotted from 331 to 361 ft. Pump set at 160 ft. Irrigates 500 acres. <u>5/</u>
M-52	--	Bruno Obst Estate	Pursley Drilling Co.	1956	347	16	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 287 to 347 ft. Pump set at 200 ft. Reported yield 2,000 gpm.
M-53	--	Adan Muniz	Virdeil Drilling Co.	1953	385	12	RG	--	--	T,G	Irr	Drilled to 414 ft. Cased to 385 ft. Slotted from 310 to 385 ft. <u>5/</u>
M-54	--	H. T. Toothaker	do	1953	416	12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 260 to 270 ft.; 370 to 390 ft.; and from 400 to 410 ft. Pump set at 150 ft. <u>5/</u>
M-55	--	H. B. Dillon	W. W. Woodruff	1952	180	14	RG	23.3	Sept.10, 1957	T,B	Irr	Cased to bottom. Pump set at 150 ft.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
M-56	--	L. W. Dillon	--White	1953	180	16	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 150 to 180 ft. Pump set at 150 ft.
*M-57	--	Sam Weisenbaker	Fool Drilling Co.	1953	165	12	RG	22.9	Sept. 10, 1957	T,B	Irr	Cased to bottom. Slotted from 145 to 165 ft. Pump set at 120 ft. Irrigates 150 acres.
*M-58	--	do	do	1953	172	12	RG	23.1	do	T,B	Irr	Cased to bottom. Slotted from 142 to 172 ft. Water from gravel.
*M-59	421 <sup>1/2</sup>	A. R. Schubart	D. Smith	1921	136	4	RG	7.5	Aug. 25, 1933	--	N	Cased to bottom. Reported water salty.
M-60	421 <sup>1/2</sup>	F. Giese	--	--	8	10	RG	2.5	do	H	D,S	
M-61	--	A. N. Vos	Pate Bros.	--	25	30	RG	8	1957	J,E	D	Cased to bottom.
M-62	--	L. E. Smith	Pursley Drilling Co.	1957	485	16	RG	--	--	T,B, 77	Irr	Cased to bottom.
M-63	428 <sup>1/2</sup>	M. W. Smith	M. W. Smith	--	18	30	RG	14.5	Aug. 25, 1933	C,W	D,S	Water from sand.
M-64	R-12 <sup>1/2</sup>	H. G. Eastham	A & T Drilling Co.	1953	490	16, 12	RG	43 34	May 1954	T,B	Irr	Drilled to 534 ft. Cased to 490 ft. Slotted from 390 to 490 ft. 14-in. 2 stage pump set at 140 ft. <u>5/ 6/</u>
*M-65	--	Sam Weisenbaker	do	1956	151	16	RG	--	--	T,B, 70	Irr	Cased to bottom. Slotted from 140 to 148 ft. Pump set at 120 ft. <u>6/</u>
*M-66	--	C. C. Billman	--	1952	472	12	RG	--	--	T,G, 100	Irr	Cased to bottom. <u>5/</u>
M-67	419 <sup>1/2</sup>	T. T. Keffer	--	--	35	5	RG	5	Aug. 1933	C,W	D,S	Cased to bottom.
M-68	--	Jack Johnson	Pursley Drilling Co.	1953	420	16	RG	--	--	T,E, 125	Irr	Drilled to 436 ft. Cased to 420 ft. Slotted from 340 to 420 ft. 14-in. 3 stage pump set at 200 ft. Irrigates 243 acres. <u>5/</u>
M-69	--	C. O. Williams	--Kennebro	1953	405	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 360 to 400 ft. Pump set at 200 ft. Reported yield 1,500 gpm. <u>5/</u>
*M-70	R-50 <sup>1/2</sup>	City of Alamo	Woodruff Drilling Co.	1953	390	16	RG	60	1953	T,E, 100	P	Drilled to 395 ft. Cased to 390 ft. Slotted from 356 to 390 ft. Pump set at 200 ft. Reported yield 800 gpm. <u>5/</u>
M-71	R-43 <sup>1/2</sup>	C. V. Morelius	Virdell Drilling Co.	1953	412	16	RG	--	--	T,B, 80	Irr	Cased to bottom. Slotted from 370 to 380 ft., and from 390 to 410 ft. 14-in. 3 stage pump set at 260 ft. <u>5/</u>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*M-72	R-6 <sup>2/</sup>	Stugard Ranch	Pursley Drilling Co.	1952	385	14	RG	31 35	May 1952 1954	T,E	Irr	Cased to bottom. Slotted from 295 to 385 ft.
M-73	616 <sup>1/</sup> R-46 <sup>2/</sup>	City of San Juan	Layne-Texas Co.	--	869	--	RG	--	--	--	N	Destroyed. 6/
M-74	--	Walter Klepfer	Cobb Drilling Co.	1952	299	12	RG	--	--	T,B	Irr	Cased to bottom. 5/
*M-75	R-54 <sup>2/</sup>	City of San Juan	Pursley Drilling Co.	1953	346	12	RG	--	--	T,E, 60	P	Drilled to 402 ft. Cased to 346 ft. Slotted from 280 to 346 ft. Pump set at 210 ft. Reported yield 750 gpm. 5/
M-76	--	Reichert Bros.	do	1952	378	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 308 to 378 ft. 14-in. 3 stage pump set at 200 ft. 5/
M-77	--	States Unit well 1	Western National Gas Co.	1953	8,566	--	--	--	--	--	--	Oil test. 5/
*N-1	--	City of Elsa	A & T Drilling Co.	1957	270	20, 12	RG	--	--	T,E, 75	P	Drilled to 304 ft. Cased to 270 ft. Screen from 200 to 270 ft. 12-in. 3 stage pump set at 160 ft. Reported yield 1,100 gpm. Temp. 79°F 5/
*N-2	329 <sup>1/</sup>	Adolph Carlson	Smith Bros.	--	133	5	RG	16	Aug. 1933	C,W	D,S	
N-3	331 <sup>1/</sup>	Gill Bros.	--	--	160	5	RG	22	do	C,W	S	Cased to bottom. Reported water salty.
N-4	--	George Henner	Virdell Drilling Co.	1953	240	12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 190 to 240 ft. Pump set at 120 ft. Reported yield 1,500 gpm. Irrigates 300 acres. 6/
N-5	--	do	A & T Drilling Co.	1953	380	--	--	--	--	--	N	Irrigation test. 5/
N-6	S-1 <sup>2/</sup>	E. C. Giese	Pursley Drilling Co.	--	437	12	RG	29	May 1954	T,-	Irr	Drilled to 492 ft. Cased to 437 ft. Screen from 235 to 437 ft. Pump set at 190 ft. Irrigates 315 acres.
N-7	S-3 <sup>2/</sup>	J. E. Pealor	do	1952	490	12	RG	20.9	Oct. 25, 1957	T,Ng	Irr	Drilled to 498 ft. Cased to 490 ft. Slotted from 290 to 490 ft. Pump set at 190 ft. Reported yield 1,100 gpm. Irrigates 210 acres.
*N-8	337 <sup>1/</sup>	J. F. Byrnes	E. Juncke	--	495	6	RG	20	Aug. 1933	C,W	D,S	Cased to bottom. Temp. 79°F.

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
N-9	--	Wade Estate	Pursley Drilling Co.	1948	344	14	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 239 to 344 ft. 12-in. 6 stage pump set at 180 ft.
N-10	S-22 <sup>1/2</sup>	Robt. Stump	do	1951	328	8	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 238 to 328 ft. Pump set at 160 ft. Reported yield 800 gpm. Irrigates 300 acres.
N-11	342 <sup>1/2</sup>	B. H. de Lomas	--	--	33	6	RG	17.5	Aug. 24, 1933	H	D,S	Cased to bottom. Water from sand.
N-12	--	Bell Bros.	Ted Pursley	1953	510	16, 10	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 240 to 510 ft. Pump set at 190 ft. Irrigates 320 acres.
N-13	--	do	Pursley Drilling Co.	1952	492	12, 8	RG	--	--	T,B	Irr	Cased to bottom. Screen from 240 to 492 ft. Pump set at 180 ft.
N-14	--	Melvin Giese	Ted Pursley	1952	360	12	RG	--	--	T,B	Irr	Cased to bottom. Screen from 270 to 360 ft. Pump set at 220 ft. 5/
N-15	--	do	Pursley Drilling Co.	1953	365	12	RG	--	--	T,B, 77	Irr	Cased to bottom. Slotted from 275 to 365 ft. 12-in. 4 stage pump set at 240 ft. Reported yield 600 gpm.
N-16	--	Paul F. Brandt	do	1953	360	8	RG	80	1953	T,B, 77	Irr	Cased to bottom. Slotted from 260 to 360 ft. Pump set at 180 ft. Reported yield 400 gpm.
N-17	--	Valley Acres Inc.	Pursley Drilling Co.	--	308	10	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 175 to 225 ft., and from 259 to 308 ft. Pump set at 200 ft.
N-18	--	do	do	--	304	10	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 190 to 304 ft. Pump set at 200 ft.
N-19	--	do	do	1953	270	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 200 to 270 ft.
N-20	--	do	A & T Drilling Co.	1953	230	10	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 200 to 230 ft. Pump set at 180 ft.
N-21	340 <sup>1/2</sup>	F. W. Johnson	--	1933	41	6	RG	16	Aug. 1933	H	--	Reported water salty. Temp. 77°F.
N-22	--	Jess Dudley	A & T Drilling Co.	1947	640	16	RG	--	--	T,Ng	Irr	Drilled to 1,685 ft. Cased to 640 ft. Slotted from 450 to 640 ft. Pump set at 180 ft. Irrigates 160 acres. 5/
N-23	341 <sup>1/2</sup>	A. B. Baker	--	--	120	5	RG	12.5	Aug. 18, 1933	C,W	--	Reported water salty.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of Measurement			
N-24	Wade Estate	A & T Drilling Co.	1947	604	16	RG	30	May 1954	T,Ng	Irr	Drilled to 656 ft. Cased to 604 ft. Slotted from 422 to 604 ft. Pump set at 180 ft. <u>5/</u>
N-25	do	Pursley Drilling Co.	1948	545	14, 10	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 320 to 545 ft. 12-in. 6 stage pump set at 180 ft.
*N-26	R. O. Wade	do	1952	484	16, 12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 334 to 484 ft. Pump set at 220 ft. <u>5/</u>
N-27	A. H. Malons	Fisher & Jernigan	1948	355	--	RG	--	--	--	--	
*N-28	R. O. Wade	Pursley Drilling Co.	1951	491	16, 10	RG	20	1954	T,G, 121	Irr	Drilled to 513 ft. Cased to 491 ft. <u>5/</u>
*N-29	Wade Estate	Ed Keike	--	135	5	RG	9.5	Aug. 18, 1933	C,W	D,S	Cased to bottom. Temp. 80°F.
*N-30	City of Edcouch	Pat Farmer	1953	338	16, 12	RG	20	Sept. 1953	T,E, 150	P	Cased to bottom. Screen from 263 to 338 ft. Pump set at 258 ft. Reported yield 900 gpm. <u>5/</u>
N-31	R. R. Hill	Ed Keike	--	143	8	RG	20	Aug. 1933	H	--	Cased to bottom. Reported water salty.
*N-32	Mrs. C. L. Rice	do	1921	130	10	RG	--	--	C,W	D,S	
*N-33	C. A. Pearson	--	--	178	4	RG	--	--	C,W	D,S	Cased to bottom. Water from gravel.
*N-34	Mrs. E. J. Hutchinson	--	--	12	36	RG	6	Aug. 1933	H	D,S	Dug.
N-35	--Schwadie	--	--	8	6	RG	6	do	H	D,S	Reported water salty.
*N-36	M. G. Carter	--	--	20	120	RG	9	July 1933	H	D,S	Dug. Water from sand and gravel.
N-37	Southland Life Insurance Co.	--	--	14	60	RG	11	do	C,W	D,S	Dug.
N-38	F. Bennett	--	--	14	4	RG	6.5	July 29, 1933	--	H	
N-39	E. O. Norris	--	1952	400	12	--	--	--	--	Irr	<u>5/</u>
N-40	Valley Acres Inc.	Pursley Drilling Co.	1953	240	10	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 210 to 240 ft. Pump set at 200 ft.
N-41	do	do	1953	350	10	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 235 to 350 ft. Pump set at 200 ft.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
N-42	--	C. W. Schwartz	Pursley Drilling Co.	1953	405	12	RG	--	--	--	N	Cased to bottom. Slotted from 318 to 405 ft. Abandoned.
N-43	--	A. D. Squires	do	1953	393	12	RG	--	--	T,B	Irr	Cased to bottom. Screen from 323 to 393 ft.
*N-44	--	A. E. Schwartz	A. E. Schwartz	1953	38	2	MS	--	--	Cf,E	Irr	Twenty-four sand point wells.
*N-45	454 <sup>1/</sup>	do	--	--	80	--	MS	--	--	C,W	D,S	
*N-46	--	do	A & T Drilling Co.	1951	327	12	RG	--	--	T,B	Irr	Cased to bottom. Screen from 256 to 356 ft.
N-47	--	Central Valley Airport	do	1953	357	12	RG	--	--	T,B	Irr	Cased to bottom. Reported yield 800 gpm. <sup>5/</sup>
N-48	--	A. R. Dillon	A. R. Dillon	--	402	2	MS	--	--	Cf,E	Irr	Sand point wells.
N-49	--	Mrs. --Emil	Pres Allan	--	275	12	RG	--	--	T,B	Irr	Cased to bottom.
*N-50	462 <sup>1/</sup>	J. Ziebarth	--	1931	90	--	MS	--	--	H	D,S	
N-51	--	E. F. Schwartz	A & T Drilling Co.	1956	355	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 270 to 355 ft. Pump set at 160 ft. Reported yield 1,000 gpm. <sup>5/</sup>
N-52	--	do	do	1946	680	12	RG	20	1950	--	N	Abandoned. <sup>5/</sup>
N-53	457 <sup>1/</sup>	L. T. Galbreath	--	--	14	36	MS	10.5	Aug. 9, 1933	C,W	D,S	Dug.
*N-54	458 <sup>1/</sup>	F. O. Underhill	--	--	40	1	MS	20	Aug. 1933	C,E	D,S	
*N-55	--	Hoblitzelle Ranch	Camlor Well Service	1945	1,545	--	--	20	1954	--	N	Irrigation test. <sup>5/ 6/</sup>
N-56	451 <sup>1/</sup>	Carter Estate	--	--	30	--	MS	5	Aug. 1933	C,W	D,S	
N-57	S-63 <sup>2/</sup>	R. E. George	Pursley Drilling Co.	1951	360	16	RG	--	--	T	Irr	Cased to bottom. <sup>5/</sup>
N-58	445 <sup>1/</sup>	A. J. Wright	--	--	20	4	RG	6.5	Aug. 3, 1933	--	N	Reported water salty.
N-59	S-43 <sup>2/</sup>	Harold Hansen	--	1952	566	12	RG	30	May 1954	T	Irr	<sup>5/</sup>
N-60	440 <sup>1/</sup>	C. Eamel	--	--	10	36	RG	8.7	July 28, 1933	H	D,S	Dug.
N-61	436 <sup>1/</sup>	Adam Wood	--	--	19	--	RG	11.5	July 27, 1933	--	N	Reported water salty. Water from sand.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
N-62	437 <sup>1/2</sup>	Mercedes Water District	--	--	15	--	RG	10	July 1933	--	D,S	
N-63	431 <sup>1/2</sup>	W. T. Lacy	T. D. Blackwell	--	26	8	RG	18	Aug. 1933	--	N	Reported water salty.
*N-64	--	City of Weslaco	Virdell Drilling Co.	1953	575	16	RG	98	1953	T,E, 100	P	Drilled to 607 ft. Cased to 575 ft. Slotted from 465 to 575 ft. 12-in. 4 stage pump set at 238 ft. Reported yield 700 gpm. <sup>5/</sup>
N-65	--	Howard Wright	Arlis Killinger	1952	568	16	RG	--	--	T,E	Irr	<sup>5/</sup>
N-66	--	N. Weslaco unit well 1	La Gloria Corp.	1945	2,760	--	--	--	--	--	--	Oil test. <sup>5/</sup>
P-1	--	H. Marcell	--	--	100	8	RG	--	--	T,G	Irr	Cased to bottom.
P-2	--	O. C. Rinehart	Bert Killinger	--	94	16	RG	--	--	T,B, 77	Irr	Cased to bottom. Slotted from 81 to 94 ft. Water from gravel.
P-3	--	Mrs. U. M. Arms	Elmer Ray	1953	126	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 96 to 126 ft. <sup>6/</sup>
*P-4	468 <sup>1/2</sup>	H. P. Porter	F. Burrhus	1933	120	8	RG	11.7	June 9, 1945	--	N	Cased to bottom. <sup>6/</sup>
*P-5	--	Shary Estate	--	--	82	6	RG	7.2	June 15, 1945	J,E	D,S	Cased to bottom.
P-6	--	do	Bert Killinger	1953	108	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 75 to 96 ft. <sup>6/</sup>
*P-7	472 <sup>1/2</sup>	M. Madsen	--	1913	120	4	RG	16 8.4	Sept. 1939 June 15, 1945	C,W	D,S	Cased to bottom.
*P-8	--	Shary Estate	A. D. Killinger	1948	139	12	RG	12.7	July 23, 1951	T,B, 75	Irr	Cased to bottom. Slotted from 118 to 139 ft. Irrigates 75 acres.
P-9	--	W. L. Carr	--	1939	92	8	RG	--	--	Cf,B	Irr	Cased to bottom. Slotted from 76 to 92 ft. Irrigates 65 acres.
P-10	--	L. M. Berry	L. M. Berry	1956	140	12	RG	47.6	Sept. 12, 1957	T,Ng	Irr	Cased to bottom. Slotted from 90 to 140 ft.
P-11	--	do	do	1956	200	12	RG	41.9	do	T,Ng	Irr	Cased to bottom. Slotted from 150 to 200 ft. Reported water salty.
*P-12	--	do	Elmer Ray	1934	130	10, 8	RG	18.5	May 25, 1945	Cf,G, 37	Irr	Cased to bottom. Slotted from 85 to 130 ft. Measured yield 720 gpm.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of Measurement			
P-13	F. Guerra	--	1945	103	6	RG	16.8	May 19, 1945	T,B	Irr	Cased to bottom.
*P-14	J. H. Curtis	Ned Wells	1929	104	10	RG	10	Aug. 1933	T,G	Irr	Cased to bottom. Irrigates 100 acres.
P-15	Willadel Citrus Groves	Bert Killinger	1950	235	8	RG	12	Aug. 1951	T,G, 47	Irr	Cased to bottom. Irrigates 60 acres.
*P-16	Fehr & Koetting	C. H. Ray	1932	104	12	RG	20	Aug. 1933	C,G	Irr	Cased to bottom. Irrigates 80 acres.
P-17	F. R. Ratcliffe	A. D. Killinger	1949	194	5	RG	13	Aug. 1951	J,E, 1	D,S	Drilled to 207 ft. Cased to 194 ft. Slotted from 191 to 194 ft.
P-18	R. W. Rowe	--	1923	93	4	RG	13 12.9	Aug. 1933 May 23, 1945	--	--	Cased to bottom. Water from gravel.
P-19	Juan Ferrios	John Brown	1943	92	6	RG	17.5	May 28, 1945	Cf,G, 85	Irr	Cased to bottom. Slotted from 77 to 92 ft.
*P-20	M. A. Holden	--	--	105	12	RG	16	1944	Cf,G	D,S, Irr	
*P-21	W. P. Bates	C. Ray	1939	118	8	RG	14.5	May 18, 1945	Cf,G, 65	Irr	Cased to bottom.
P-22	John Weisehan	Cobb Drilling Co.	1952	242	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 232 to 242 ft. Irrigates 70 acres. 5/
P-23	J. B. Martinez	Gene Liberty	1956	240	14	RG	--	--	T,Ng	Irr	Cased to bottom. Pump set at 160 ft. Irrigates 60 acres.
P-24	M. L. Woods	A. D. Killinger	1947	234	4	RG	49.6	Sept. 17, 1957	J,E, 1	D,S	Cased to bottom. Slotted from 213 to 234 ft. 5/
P-25	C. A. Townsend	Gene Liberty	1957	230	12	RG	--	--	T,G, 105	Irr	Cased to bottom. Slotted from 180 to 230 ft. Pump set at 120 ft. Irrigates 100 acres.
P-26	E. B. Darby	Cobb Drilling Co.	1953	240	14	RG	53.6	Sept. 17, 1957	--	N	Cased to bottom. Slotted from 225 to 240 ft. Abandoned. 5/
P-27	E. B. Darby	A & T Drilling Co.	1956	450	16	RG	--	--	T,G	Irr	Drilled to 450 ft. Cased to 285 ft. Slotted from 230 to 285 ft. Pump set at 140 ft. 5/ 6/
*P-28	J. C. Kelly	--	1912	78	4	RG	7	Aug. 1933	C,W	D,S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
P-29	501 <sup>1/2</sup>	C. W. Dowley	--	1924	49	4	RG	15	Aug. 1933	C,W	S	Reported water salty.
*P-30	--	Knops & McMillon	Pursley Drilling Co.	1957	415	16	RG	45.6	Sept. 17, 1957	T,G, 103	Irr	Drilled to 448 ft. Cased to 415 ft. Slotted from 240 to 270 ft.; 290 to 365 ft.; and from 380 to 415 ft. Pump set at 180 ft. Reported yield 2,000 gpm. Irrigates 160 acres. <sup>5/</sup>
P-31	--	Granville Smith	--	1952	182	12	RG	19	1953	T,B	Irr	Cased to bottom. <sup>5/</sup>
P-32	--	Carl Schuster	A & T Drilling Co.	1953	475	14	RG	23.6	Sept. 17, 1957	T,G	Irr	Cased to bottom. Screen from 400 to 475 ft. Pump set at 180 ft. Reported yield 1,200 gpm. <sup>5/</sup>
*P-33	499 <sup>1/2</sup>	J. S. Ward	--	1920	90	5	RG	5	Aug. 1933	H	D,S	Cased to bottom.
*P-34	--	Jim Darbey	--	1944	125	6	RG	5.1	May 26, 1945	C,W	D,S	do.
P-35	--	E. B. Darby	A & T Drilling Co.	1953	130	12	RG	--	--	T,B, 77	Irr	Cased to bottom. Slotted from 109 to 130 ft. Pump set at 110 ft.
P-36	--	Ed Danner	Arlio Killinger	1953	122	5	RG	--	--	J,E	Ind	Cased to bottom. Slotted from 102 to 122 ft. Pump set at 80 ft. Cotton gin well. <sup>6/</sup>
*P-37	496 <sup>1/2</sup>	R. J. Sorenson	--	1917	110	4	RG	8.5	Aug. 9, 1933	C,W	D,S	Cased to bottom.
P-38	--	Everett Knapp	Pursley Drilling Co.	1953	120	16	RG	--	--	T,G	Irr	Drilled to 148 ft. Cased to 120 ft. Slotted from 105 to 120 ft. Reported yield 1,200 gpm.
F-39	--	Kremmeller Farms	A & T Drilling Co.	1956	154	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 146 to 154 ft. Pump set at 120 ft. <sup>6/</sup>
*P-40	--	L. G. Nelson	--Steele	1948	119	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 99 to 116 ft. Pump set at 90 ft.
P-41	--	do	A & T Drilling Co.	1957	100	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 91 to 99 ft. Pump set at 90 ft. <sup>6/</sup>
*P-42	497 <sup>1/2</sup>	John Klumb	Juan Vela	1928	83	4	RG	10	Aug. 1933	C,W	D,S	Cased to bottom.
*P-43	495 <sup>1/2</sup>	J. G. Moutier	--	1917	110	4	RG	17	do	C,W	D,S	Cased to bottom. Water from sand and gravel.
P-44	494 <sup>1/2</sup>	Amado Lozano	Amado Lozano	1928	75	4	RG	11	do	C,W	D,S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*P-45	493 <sup>1/2</sup>	M. M. Darron	Juan Perez	1925	100	4	RG	12	Aug. 1933	C,W	D,S	Cased to bottom.
*P-46	491 <sup>1/2</sup>	W. W. Stevens	Wm. Schulz	1913	90	4	RG	9	do	C,W	D,S	do.
P-47	--	Prudencio Aguirre	Arlis Killinger	1953	119	12	RG	21.3	Sept. 17, 1957	T,B	Irr	Cased to bottom. Slotted from 106 to 119 ft. Irrigates 80 acres. <sup>6/</sup>
*P-48	--	E. B. Darby	A & T Drilling Co.	1954	135	14	RG	23.4	do	T,B, 77	Irr	Cased to bottom. Slotted from 125 to 135 ft. Pump set at 115 ft.
P-49	--	do	do	1954	130	14	RG	--	--	--	N	Cased to bottom. Slotted from 120 to 130 ft. Abandoned.
*P-50	489 <sup>1/2</sup>	Valley View School	Juan Perez	1927	105	4	RG	12	Aug. 1933	C,W	P	Cased to bottom.
*P-51	488 <sup>1/2</sup>	G. M. Shoup	--	1918	125	4	RG	10	do	C,W	D,S	do.
P-52	--	--Heils	--	--	382	14	RG	15.1	Sept. 17, 1957	T,B	Irr	Cased to bottom. Irrigates 110 acres.
*P-53	--	Continental Pipe Line Co.	--	1936	93	6	RG	--	--	C,G, 3	D,Ind	Cased to bottom.
*P-54	--	Thesar Bros.	Gene Liberty	1952	300	16	RG	--	--	T,B	Irr	Drilled to 306 ft. Cased to 300 ft. Slotted from 200 to 300 ft. Pump set at 120 ft. <sup>5/</sup>
*P-55	485 <sup>1/2</sup>	do	Juan Vela	1913	99	4	RG	11	Aug. 1933	C,W	D,S	Cased to bottom.
*P-56	--	R. C. Rodriguez	A. de Luna	1945	100	6	RG	6.8	May 9, 1945	C,W	D,S	Cased to bottom.
P-57	--	F. P. Gonzalez	Arlis Killinger	1957	245	12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 165 to 245 ft. Pump set at 190 ft. Irrigates 70 acres.
P-58	--	Valley Vitamins Inc.	David Jones	1944	119	12, 10	RG	13	1944	T,E, 15	Ind	Cased to bottom. Slotted from 91 to 119 ft. Measured yield 600 gpm. <sup>6/</sup>
*P-59	--	do	do	1944	186	12	RG	13	Sept. 1944	T,G, 40	Ind	Cased to bottom. Slotted from 107 to 127 ft. <sup>6/</sup>
*P-60	--	Roy Lepovitz	--White	1953	300	18	RG	--	--	T,N,G, 100	Irr	Cased to bottom. Slotted from 150 to 300 ft. <sup>5/</sup>
*P-61	--	Thesar Bros.	Gene Liberty	1952	300	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 150 to 300 ft. Pump set at 120 ft. Temp. 79°F. <sup>5/</sup>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*P-62	--	Thesar Bros.	Gene Liberty	1956	326	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 216 to 326 ft. Pump set at 120 ft.
P-63	--	Baldwin Dairies	Bert Killinger	1950	90	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 75 to 90 ft. Pump set at 80 ft.
P-64	--	Jerry Baldwin	Gene Liberty	--	250	12	RG	--	--	T,B	Irr	Drilled to 270 ft. Cased to 250 ft. Slotted from 140 to 170 ft., and from 180 to 250 ft. Pump set at 150 ft. 5/
*P-65	482 <sup>1/</sup>	--Fletcher	C. H. Ray	1932	110	10	RG	--	--	T,G	Irr	Cased to bottom. Reported yield 800 gpm. Irrigates 30 acres.
*P-66	--	R. L. Bell	Pursley Drilling Co.	1957	329	12	RG	--	--	T,Ng	Irr	Cased to bottom. 5/
*P-67	483 <sup>1/</sup>	W. J. Zackman	--Bayse	1931	120	12	RG	18	June 1933	T,E	Irr	Cased to bottom. Reported yield 700 gpm.
P-68	--	R. L. Bell	--	1950	215	12	RG	--	--	--	N	Cased to bottom. Abandoned. 5/
P-69	--	H. H. Kawahata	Elmer Ray	1953	144	16	RG	24.3	Sept.12, 1957	T,Ng, 77	Irr	Cased to bottom. Slotted from 90 to 144 ft.
*P-70	--	Casper Arms	--	--	125	--	RG	18.2	May 24, 1945	T,G	Irr	
*P-71	--	Hidalgo County Water District 3	Gene Liberty	1953	288	20	RG	35	1953	T,Ng, 147	Irr	Drilled to 306 ft. Cased to 288 ft. 14-in. 3 stage pump set at 212 ft. Reported yield 1,400 gpm.
*P-72	--	H. H. Kawahata	Buddy Parker	1953	121	16	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 96 to 121 ft.
*P-73	--	--Cook	--Newhouse	1936	125	10	RG	17.9	June 9, 1945	T,G	Irr	Cased to bottom.
*P-74	--	Valley Vitamins Inc.	David Jones	1944	127	12	RG	15.9	July 6, 1945	T,Ng	Irr	Drilled to 136 ft. Cased to 127 ft. Slotted from 106 to 127 ft. Pump set at 95 ft. Irrigates 80 acres. 6/
*P-75	--	--Cook	--	--	63	5	RG	18.6	June 9, 1945	C,W	--	
P-76	--	H. H. Kawahata	Gene Liberty	1953	120	16	RG	33.3	Sept.12, 1957	T,B, 77	Irr	Cased to bottom. Slotted from 99 to 120 ft.
P-77	--	L. M. Berry	L. M. Berry	1956	125	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 90 to 125 ft. Pump set at 80 ft.

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (if different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								BELOW land-surface datum (ft.)	Date of Measurement			
*P-78	--	Hugh Harrington	Arlis Killinger	1956	365	16	RG	69.9	Sept.12, 1957	T,Ng	Irr	Drilled to 457 ft. Cased to 365 ft. Slotted from 210 to 240 ft., and from 280 to 365 ft. Pump set at 190 ft. Irrigates 70 acres. 5/ 6/
P-79	--	J. D. Powlik	A. D. Killinger	--	126	20	RG	--	--	T,G	Irr	Cased to bottom.
P-80	--	Roberts Estate	--	--	115	10	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 90 to 115 ft. Irrigates 44 acres.
*P-81	--	J. D. Powlik	Gene Liberty	1957	130	16	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 105 to 130 ft. Pump set at 120 ft.
*P-82	--	Shary Estate	Bert Killinger	1953	110	16	RG	26.6	Sept.12, 1957	T,B	Irr	Cased to bottom. Slotted from 100 to 110 ft.
P-83	--	G. M. Furswell	do	--	110	12	RG	26	Sept. 1957	T,B	Irr	Cased to bottom. Slotted from 91 to 110 ft. Pump set at 80 ft. Reported yield 800 gpm.
P-84	--	do	do	--	110	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 81 to 110 ft. Pump set at 80 ft.
P-85	--	Horace Ettchison	Arlis Killinger	1957	85	16	RG	--	--	T	Irr	Cased to bottom. Slotted from 65 to 85 ft. Water from gravel.
P-86	--	Rodolfo Samano	Bert Killinger	1957	74	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 62 to 72 ft.
P-87	--	Shary Estate	do	1957	75	16	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 63 to 75 ft. Pump set at 73 ft. 6/
P-88	--	Walthal Estate	Bert Killinger	--	75	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 63 to 75 ft.
P-89	--	do	do	--	176	12	RG	20.5	Sept.11, 1957	T,G	Irr	Cased to bottom. Slotted from 156 to 176 ft. 6/
*P-90	--	W. O. Holton	do	1950	227	4	RG	16	1951	J,E, 1	D,S	Cased to bottom. Slotted from 206 to 227 ft.
*P-91	471 1/2 U-552	F. Burrhus	F. Burrhus	1933	115	8	RG	11	Aug. 1933	C,E	Irr	Cased to bottom. Reported yield 800 gpm. Irrigates 60 acres.
P-92	--	Shary Estate	Bert Killinger	1953	108	16	RG	--	--	T,Ng, 85	Irr	Cased to bottom. Slotted from 87 to 108 ft.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
P-93	--	Shary Estate	Bert Killinger	1953	128	16	RG	--	--	T,Ng, 85	Irr	Cased to bottom. Slotted from 107 to 128 ft.
P-94	--	do	do	1953	106	16	RG	14	1953	T,Ng, 85	Irr	Cased to bottom. Slotted from 85 to 106 ft.
*P-95	--	do	Mayfair Oil Co.	1956	220	12	RG	--	--	T,B	Irr	Former oil test. Perforated from 200 to 220 ft. Reported yield 900 gpm.
P-96	--	Oblate Fathers	Bert Killinger	1957	102	16	RG	18.7	Sept. 11, 1957	T,B	Irr	Cased to bottom. Slotted from 90 to 102 ft. Pump set at 95 ft.
*P-97	467 <sup>1/2</sup>	do	--	1913	150	4	RG	47	Aug. 1933	C,E	D,S	Cased to bottom. Reported yield 16 gpm.
R-1	--	J. C. Groves	Pursley Drilling Co.	1953	390	16	RG	50	1957	T,E, 125	Irr	Cased to bottom. Slotted from 330 to 390 ft. Pump set at 240 ft. Reported yield 1,700 gpm. <sup>5/</sup>
R-2	--	W. C. Rice	Gene Liberty	1951	407	12	RG	10	1951	T,B, 60	Irr	Cased to bottom. Irrigates 100 acres. <sup>5/</sup>
R-3	--	LeRoy Scott	Pursley Drilling Co.	1957	412	14	RG	58.9	July 7, 1957	T,G	Irr	Cased to bottom. Slotted from 319 to 409 ft. <sup>5/</sup>
*R-4	502 <sup>1/2</sup>	F. R. Lenser	Wm. Brewster	1922	103	4	RG	17	Aug. 1933	C,W	S	Cased to bottom. Reported water salty.
*R-5	--	Midvalley Farms	Howard Fortram	--	482	12	RG	--	--	T,E	D	Cased to bottom. Slotted from 400 to 420 ft., and from 450 to 480 ft. Pump set at 230 ft. Reported yield 1,800 gpm.
*R-6	--	do	do	1952	475	16	RG	--	--	T,E, 75	Irr	Cased to bottom. Slotted from 430 to 475 ft. Pump set at 200 ft. Reported yield 2,500 gpm. <sup>5/</sup>
R-7	--	D. R. Ralston	Cobb Drilling Co.	1953	333	16	RG	--	--	T,E	Irr	Cased to bottom. Slotted from 277 to 330 ft. <sup>5/</sup>
R-8	--	Darnell De Roulac	Hugh Cole	1947	340	12	RG	12	1947	T,G, 86	Irr	Cased to bottom. Slotted from 265 to 340 ft. Pump set at 200 ft. Reported yield 700 gpm. Irrigates 100 acres.
R-9	--	H. C. Cramer	Pursley Drilling Co.	1952	390	16, 12	RG	56	1957	T,E, 125	Irr	Drilled to 413 ft. Cased to 390 ft. Slotted from 300 to 390 ft. Pump set at 240 ft. Irrigates 240 acres.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
R-10	--	D. R. Ralston	Cobb Drilling Co.	1952	326	12	RG	100	1954	T,B, 75	Irr	Cased to bottom. Slotted from 284 to 326 ft. Pump set at 210 ft. Irrigates 250 acres.
R-11	--	G. L. Cowley	Pursley Drilling Co.	1953	400	16	RG	--	--	T,G	Irr	Drilled to 410 ft. Cased to 400 ft. Slotted from 310 to 400 ft. Pump set at 200 ft. <u>5/</u>
R-12	--	A. Z. Lloyd	Ted Pursley	1952	380	8	RG	124	1953	T,B, 35	Irr	Cased to bottom. Slotted from 290 to 380 ft. Irrigates 30 acres.
*R-13	512 <sup>1/</sup>	J. A. Elmer	Wm. Brewster	1921	104	4	RG	12	Aug. 1933	C,W	D,S	Cased to bottom. Water from gravel.
*R-14	513 <sup>1/</sup>	E. L. Gilland	--	1923	50	4	RG	15	do	C,W	D,S	Cased to bottom.
R-15	--	Art Beckwith	Gene Liberty	1952	150	12, 8	RG	--	--	T,B	Irr	Drilled to 290 ft. Cased to 150 ft. Slotted from 130 to 150 ft. Irrigates 40 acres. <u>5/</u>
R-16	--	Doffing Estate	A & T Drilling Co.	1953	490	12	RG	100	1953	T,E, 75	Irr	Cased to bottom. Slotted from 400 to 490 ft. Pump set at 170 ft. Irrigates 100 acres. <u>6/</u>
R-17	--	Maurice Bell	Pat Farmer	1953	461	16, 12	RG	--	--	T,Ng	Irr	Cased to bottom. Screen from 300 to 461 ft. Pump set at 240 ft. Reported yield 1,000 gpm. Irrigates 75 acres. <u>6/</u>
*R-18	V-59 <sup>2/</sup>	City of Donna	A & T Drilling Co.	1953	493	16, 12	RG	--	--	T,E, 100	F	Drilled to 548 ft. Cased to 493 ft. Slotted from 467 to 493 ft. Pump set at 200 ft. Reported yield 1,500 gpm. <u>5/</u>
R-19	--	D. C. Key	do	1948	417	16	RG	44	1954	T	Irr	Cased to bottom. <u>5/</u>
R-20	V-54 <sup>2/</sup>	J. E. Mitchell	do	1948	505	--	--	--	--	--	N	Irrigation test. <u>5/</u>
R-21	V-47 <sup>2/</sup>	Boyce, Boyce & Bottom	do	1952	250	12	RG	--	--	T,B	Irr	Cased to bottom. <u>5/</u>
R-22	V-49 <sup>2/</sup>	Taromina Canning Co.	do	1952	228	14	RG	32	May 1954	--	N	Abandoned. <u>5/</u>
R-23	--	R. D. Ivey	Pursley Drilling Co.	1952	185	12	RG	21	Oct. 1957	--	N	Cased to bottom. Slotted from 169 to 185 ft. Abandoned.
R-24	--	E. W. Virtrees	--	1952	148	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 127 to 148 ft. <u>5/</u>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*R-25	514 <sup>1/</sup>	O. Dean	--	--	70+	5	RG	14.0	June 22, 1945	C,W	D,S	
R-26	--	--Hammond	--	1952	159	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 137 to 157 ft. Reported yield 1,500 gpm. Irrigates 155 acres.
R-27	--	Truett Hubbard	Pursley Drilling Co.	1956	393	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 373 to 393 ft. Pump set at 180 ft.
R-28	--	Hubert Drawe	Arlis Killinger	1953	135	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 122 to 135 ft. <u>6/</u>
R-29	--	Truett Hubbard	--	1952	218	12	RG	--	--	T,B	Irr	Cased to bottom.
*R-30	--	Missouri Pacific R. R.	--	1925	210	4	RG	13.4	June 22, 1945	C,W	D,S	do.
R-31	--	J. H. Unland	--	--	175	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 155 to 175 ft. Pump set at 140 ft. Irrigates 80 acres.
*R-32	511 <sup>1/</sup>	do	J. H. Unland	1926	86	4	RG	25	Aug. 1933	C,W	D,S	Cased to bottom.
R-33	--	Frank Seviere	Arlis Killinger	--	156	16	RG	--	--	T,G	Irr	Drilled to 156 ft. Cased to 147 ft. Slotted from 130 to 145 ft. <u>6/</u>
*R-34	V-56 <sup>2/</sup>	Juan C. Gomez	Virdell Drilling Co.	1953	163	16	RG	19 19.7	May 1954 Oct. 24, 1957	T,B, 145	Irr	Cased to bottom. Slotted from 128 to 138 ft., and from 148 to 163 ft. Temp. 79°F. <u>5/</u>
R-35	--	Thomas Morin	Arlis Killinger	1953	162	12	RG	--	--	T,B, 54	Irr	Cased to bottom. Slotted from 150 to 162 ft. Pump set at 60 ft. <u>6/</u>
R-36	--	James Morin	A. D. Killinger	1952	132	22	RG	30	1953	T,G, 100	Irr	Cased to bottom. Slotted from 96 to 132 ft. Pump set at 70 ft. Reported yield 2,900 gpm. Irrigates 350 acres.
R-37	--	A. F. Buchanan	Howard Fortram	1951	327	16, 12	RG	22.8	Oct. 24, 1957	--	N	Cased to bottom. Slotted from 307 to 327 ft. Abandoned.
*R-38	506 <sup>1/</sup>	W. J. Wittenberg	Wm. Brewster	1927	80	4	RG	13	Aug. 1933	C,W	D,S	Cased to bottom.
*R-39	507 <sup>1/</sup>	C. Wichman	--	1920	108	4	RG	15	do	C,W	D,S	Cased to bottom. Water from sand.
R-40	503 <sup>1/</sup>	Felke Estate	Wm. Brewster	1925	95	4	RG	20	do	C,W	S	Cased to bottom. Reported water salty.
R-41	--	Harris P. Coszby	Arlis Killinger	1953	129	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 80 to 129 ft. Reported yield 1,700 gpm.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
R-42	--	L. Dreibalbis	Pursley Drilling Co.	1952	115	16	RG	--	--	T,E, 50	Irr	Cased to bottom. Slotted from 90 to 114 ft. Pump set at 80 ft.
*R-43	--	W. V. Edwards	Arlis Killinger	1954	115	12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 105 to 115 ft. Pump set at 105 ft. Irrigates 72 acres.
R-44	--	A. F. Buchanan	A. D. Killinger	1953	110	20	RG	29	1953	T,E, 75	Irr	Cased to bottom. Slotted from 100 to 110 ft. Pump set at 80 ft. Measured yield 2,734 gpm. Irrigates 300 acres.
R-45	--	F. M. Whitlock	do	1953	114	20	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 98 to 114 ft. Pump set at 80 ft.
R-46	--	W. J. Reis	--	--	360	12	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 330 to 360 ft.
R-47	--	Harris P. Coszby	Pursley Drilling Co.	1953	331	--	--	--	--	--	N	Irrigation test. 5/
*R-48	505 <sup>1/</sup>	Southwestern Life Insurance Co.	--	1923	75	4	RG	5	Aug. 1933	H	S	Cased to bottom.
R-49	V-16 <sup>2/</sup>	A. B. Cantu	Cobb Drilling Co.	1952	122	20	RG	21	Oct. 1957	T,E, 75	Irr	Cased to bottom. Slotted from 109 to 121 ft. Pump set at 80 ft. 5/
R-50	--	Carl Schuster	Howard Fortran	--	132	16	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 120 to 132 ft. Pump set at 100 ft. Irrigates 200 acres.
*R-51	509 <sup>1/</sup>	C. R. Boase	--	1926	105	4	RG	9	Aug. 1933	C,W	D,S	
R-52	535 <sup>1/</sup>	D. A. Knapp	--	1929	126	4	RG	15	do	C,G	D,S	Water from gravel.
R-53	--	Frank Schuster	A & T Drilling Co.	1953	141	14	RG	36	1953	T,B	Irr	Cased to bottom. Slotted from 120 to 141 ft. 6/
R-54	--	R. D. Ivey	--	1953	150	14	RG	--	--	T,B	Irr	Cased to bottom. Reported yield 1,200 gpm. Irrigates 120 acres.
R-55	536 <sup>1/</sup>	Landa Plantation	--	1913	68	4	RG	14	Aug. 1933	C,W	D,S	
*R-56	--	County School	R. H. Harvey	1931	67	5	RG	21.9	May 29, 1945	C,W	P	Cased to bottom. Water from sand.
R-57	--	John Singleterry	--	1953	140	12	RG	25	1953	T,B, 50	Irr	Cased to bottom. Slotted from 125 to 140 ft. Pump set at 120 ft. Irrigates 150 acres.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of Measurement			
R-58	James Morin	A & T Drilling Co.	1953	146	12	RG	38	1954	T,B	Irr	Cased to bottom. Slotted from 137 to 145 ft. <u>6/</u>
R-59	Alma Ramen	--	1951	115	14	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 100 to 112 ft. Pump set at 80 ft. Reported yield 1,400 gpm. Irrigates 225 acres.
*R-60	Fun School No. 4	R. H. Harvey	--	110	5	RG	16 15.6	Aug. 1933 June 22, 1945	C,W	P	Water from sand.
R-61	Newell Water	A & T Drilling Co.	1953	143	14	RG	--	--	T,G	Irr	Cased to bottom. Slotted from 129 to 143 ft. Pump set at 110 ft. Irrigates 250 acres.
R-62	do	do	1956	140	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 131 to 139 ft. Reported yield 1,400 gpm. <u>6/</u>
R-63	do	do	1948	385	14	RG	--	--	--	N	Abandoned. <u>5/</u>
R-64	do	do	1957	173	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 163 to 172 ft. Pump set at 120 ft. Reported yield 1,600 gpm.
*R-65	Temple Orchards	--	1932	120	4	RG	15	Aug. 1933	C,W	D,S	
R-66	Quinn McManus	A & T Drilling Co.	1952	170	12	RG	44	May 1954	T,B	Irr	Cased to bottom. Slotted from 154 to 169 ft. <u>6/</u>
*R-67	--Sheppard	--	--	187	4	RG	30	Aug. 1933	H	D,S	Oil test. <u>2/</u>
*R-68	A. L. Steele	C. Newman	--	80	3	RG	22	do	C,W	D,S	
R-69	John Jancik well 1	Sinclair Prairie Oil Co.	1949	3,092	--	--	--	--	--	--	Oil test. <u>2/</u>
R-70	Sweeney well 1	H. J. Porter et al	1936	3,920	--	--	--	--	--	--	Oil test. <u>2/</u>
R-71	South Weslaco unit well 6	La Gloria Corp.	1948	9,747	--	--	--	--	--	--	do.
R-72	South Weslaco unit well 1	do	1944	8,732	--	--	--	--	--	--	do.
*R-1	Texas Citrus Exchange	Camlor Well Service	1944	540	12, 8	RG	--	--	T,E, 30	Ind, F	Drilled to 1,290 ft. Cased to 540 ft. Screen from 400 to 445 ft.; 461 to 491 ft.; and from 514 to 540 ft. Reported yield 700 gpm. <u>5/</u>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*S-2	519 <sup>1/</sup>	C. H. Cotton	--	--	36	--	MS	11.5	Aug. 19, 1933	C,W	D,S	Dug.
S-3	520 <sup>1/</sup>	J. H. Couch	--	--	36	6	MS	16.5	do	C,W	D,S	Water from sand and gravel.
S-4	--	F. Haza	A. D. Killinger	1953	265	8	RG	42	1953	T,B, 54	Irr	Cased to bottom. Slotted from 250 to 265 ft. Pump set at 130 ft. Reported yield 650 gpm. Irrigates 40 acres. <u>6/</u>
S-5	--	Texas A & M Experimental Station	Layne-Texas Co.	1953	600	18, 10	RG	83	1957	T,E, 75	Irr	Drilled to 611 ft. Cased to 600 ft. Screen from 450 to 600 ft. <u>5/ 6/</u>
*S-6	620 <sup>1/</sup>	O. E. Ridenove	A. I. Willingham	1921	139	4	RG	14	Sept. 1939	C,W	D,S	
*S-7	523 <sup>1/</sup>	South Palm Garden School	A. Z. Darlington	1924	20	4	MS	6	Aug. 1933	C,W	P	Water from sand.
S-8	--	A. V. Edwards	A & T Drilling Co.	1956	280	12	RG	--	--	T,B, 100	Irr	Cased to bottom. Slotted from 235 to 280 ft. Pump set at 120 ft. <u>6/</u>
S-9	--	David Settler	--	--	200	14	RG	--	--	T,B, 77	Irr	Cased to bottom.
S-10	--	Austin Ellison	--	--	150	12	RG	--	--	T,B	Irr	do.
S-11	--	Baptist Foundation of Texas	A & T Drilling Co.	1956	296	16	RG	--	--	T,B, 70	Irr	Cased to bottom. Slotted from 280 to 295 ft. Pump set at 140 ft. <u>6/</u>
*S-12	W-67 <sup>2/</sup>	City of Mercedes	do	1953	338	16	RG	38	May 1954	T,E, 75	P	Drilled to 347 ft. Cased to 338 ft. Slotted from 230 to 250 ft., and from 278 to 338 ft. Reported yield 1,200 gpm. <u>5/</u>
*S-13	528 <sup>1/</sup>	Henry Williamson	--	--	45	4	MS	13.5	Aug. 10, 1933	C,W	D,S	
*S-14	529 <sup>1/</sup>	W. A. Critch-- field	W. A. Critchfield	--	40	3	MS	11.5	do	C,W	D,S	Cased to bottom. Water from sand.
S-15	--	James Imel	A & T Drilling Co.	1950	412	--	RG	--	--	T	Irr	Cased to bottom. <u>5/</u>
*S-16	--	R. J. Reger	R. J. Reger	1953	50	2	MS	--	--	Cf,G	Irr	Forty-one sand point wells.
S-17	--	E. B. Smith	--	1957	300+	--	RG	--	--	T,B	Irr	Cased to bottom.
S-18	--	Ira Whitlock	Ira Whitlock	--	45	2	MS	--	--	Cf,G	Irr	Five sandpoint wells.

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*S-19	534 <sup>1/</sup>	C. F. Barter	C. F. Barter	--	50	2	RG	20	Aug. 1933	C,W	D,S	Water from sand.
S-20	W-61 <sup>2/</sup>	T. D. Blackwell	--	--	410	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 365 to 410 ft. 12-in. 3 stage pump set at 130 ft. Reported yield 1,500 gpm.
*S-21	W-74 <sup>2/</sup>	D. G. Kelkers	A & T Drilling Co.	1949	369	14	RG	45.1	Sept.10, 1957	T,B, 100	Irr	Cased to bottom. Slotted from 357 to 369 ft. <sup>5/</sup>
*S-22	--	H. H. Somnitz	--	1944	144	1	RG	12	1944	H	D,S	Cased to bottom. Water from gravel.
S-23	--	W. H. Drawe	Gene Liberty	1951	200	12	RG	20	1951	T,G, 60	Irr	Cased to bottom. Slotted from 190 to 200 ft. Irrigates 150 acres.
S-24	--	do	do	1950	150	12	RG	46.5	Sept.10, 1957	T,G, 60	Irr	Cased to bottom. Slotted from 120 to 150 ft.
*S-25	--	do	O. N. Gilliland	1945	148	2	RG	12	1945	C,E, $\frac{1}{4}$	D,S	Cased to bottom. Water from gravel.
S-26	--	W. T. Wooley	Jernigan & Fisher	1949	168	12	RG	44.4	Sept.10, 1957	T,Ng	Irr	Cased to bottom. Slotted from 147 to 168 ft. Irrigates 120 acres.
S-27	--	Duane Miller	A & T Drilling Co.	--	196	14	RG	45	1957	T,B	Irr	Cased to bottom. Slotted from 185 to 195 ft. Pump set at 120 ft. Reported yield 1,200 gpm. <sup>6/</sup>
S-28	--	E. J. Drefke	do	--	194	14	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 183 to 194 ft. Pump set at 140 ft.
*S-29	--	Continental Pipe Line Co.	--	1938	142	6	RG	12	1945	C,G, $1\frac{1}{2}$	D,S	Cased to bottom.
*S-30	545 <sup>1/</sup>	Wm. McKinney	--	--	100	--	RG	--	--	H	D,S	
S-31	--	D. Schwartz	Camlor Well Service	1944	159	14	RG	17	1945	T,Ng	Irr	Cased to bottom. Slotted from 119 to 157 ft. <sup>6/</sup>
*S-32	--	do	do	1944	155	16, 12	RG	15	1945	T,Ng, 50	Irr	Cased to bottom. Slotted from 134 to 155 ft. Reported yield 900 gpm. <sup>6/</sup>
S-33	--	do	do	1944	157	14, 12	RG	18.5	June 14, 1945	T,Ng, 50	Irr	Cased to bottom. Slotted from 136 to 157 ft.
S-34	--	do	Texas Water Wells	1945	156	20	RG	11.8	July 13, 1945	T,E, 40	Irr	Cased to bottom. Slotted from 137 to 156 ft.

See footnotes at end of table.



Table 4.--Records of wells in Hidalgo County--Continued

Well Number	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*S-35	--	D. Schwartz	Texas Water Wells	1945	155	20, 12	RG	11.7	June 14, 1945	T,E, 40	Irr	Cased to bottom. Screen from 110 to 155 ft.
S-36	--	do	do	1945	156	20, 12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 121 to 156 ft.
S-37	--	do	Camlor Well Service	1944	174	14, 12	RG	12.8	June 14, 1945	T,B	Irr	Cased to bottom. Slotted from 134 to 174 ft. 6/
S-38	--	Butler & Sherrill	Gene Liberty	1952	144	12	RG	50	1953	T,B	Irr	Cased to bottom. Slotted from 124 to 144 ft. Pump set at 110 ft. Irrigates 220 acres.
S-39	--	D. Schwartz	Camlor Well Service	1944	157	14	RG	--	--	T,Ng, 50	Irr	Cased to bottom. Slotted from 137 to 157 ft.
*S-40	--	do	do	1944	155	14, 10	RG	17	1945	T,B, 42	Irr	Cased to bottom. Slotted from 135 to 155 ft. Reported yield 1,200 gpm. 6/
*S-41	--	Justman-Frankenthal	--	--	125	4	RG	13.2	June 14, 1945	C,W	D,S	
S-42	--	Art Beckwith	L. Riemenschneider	1956	250	16	RG	--	--	T,G	Irr	Drilled to 319 ft. Cased to 250 ft. Slotted from 228 to 250 ft. Pump set at 120 ft. Irrigates 100 acres. 6/
S-43	--	Jack Holcombe	Gene Liberty	1952	260	16	RG	85	1953	T,G	Irr	Drilled to 260 ft. Cased to 252 ft. Slotted from 236 to 250 ft. Pump set at 170 ft. Reported yield 2,000 gpm. Irrigates 200 acres. 5/
*S-44	--	Clayton E. Malone	do	1952	256	16	RG	--	--	T,B, 84	Irr	Drilled to 264 ft. Cased to 256 ft. Slotted from 226 to 256 ft. Pump set at 120 ft. Irrigates 225 acres. Temp. 80°F. 6/
S-45	--	Art Beckwith	do	1952	260	12	RG	40	1953	T,B, 84	Irr	Cased to bottom. Slotted from 240 to 260 ft. Pump set at 120 ft.
S-46	W-22 <sup>2</sup> /	John Lynch	--	1949	280	10	RG	--	--	T,B	Irr	Cased to bottom.
S-47	W-21 <sup>2</sup> /	do	--	1949	280	10	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 260 to 280 ft. Pump set at 150 ft. Irrigates 200 acres.
S-48	W-101 <sup>2</sup> /	Jack Holcombe	Porter Drilling Co.	1953	238	16	RG	69	1953	T,G	Irr	Drilled to 275 ft. Cased to 230 ft. Slotted from 222 to 234 ft. Pump set at 160 ft. Irrigates 140 acres. 5/

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
S-49	--	Dan Logan	A & T Drilling Co.	1948	165	12	RG	--	--	T,Ng	Irr	Cased to bottom. Slotted from 155 to 165 ft. Reported yield 900 gpm.
*S-50	--	N. J. Moore	--	--	140	5	RG	19.8	Aug. 4, 1945	C,W	D,S	Cased to bottom.
S-51	W-17 <sup>2</sup> / <sub>1</sub>	M. Lively	Gene Liberty	1952	153	12	RG	26	1953	T,B, 84	Irr	Cased to bottom. Slotted from 133 to 153 ft. 12-in. 3 stage pump set at 100 ft. Irrigates 40 acres.
S-52	--	Dan Logan	A & T Drilling Co.	1948	350	8	RG	--	--	--	N	Caved and abandoned
*S-53	--	do	do	1948	350	12	RG	--	--	T,Ng	Irr	Cased to bottom. Irrigates 200 acres.
*S-54	--	B. J. Theimer	Bob Johnson	1945	150	12	RG	--	--	T,-	Irr	Reported yield 900 gpm.
*S-55	--	do	do	1945	153	12	RG	--	--	T,-	Irr	Reported yield 1,250 gpm.
S-56	W-45 <sup>2</sup> / <sub>1</sub>	Bennett Bros.	Gene Liberty	1950	172	13	RG	56	1953	T,B	Irr	Cased to bottom. Slotted from 142 to 172 ft. 12-in.3 stage pump set at 120 ft. Reported yield 1,000 gpm.
S-57	W-37 <sup>2</sup> / <sub>1</sub>	Homecourt & Fitzgerald	A & T Drilling Co.	1953	245	14	RG	--	--	T,B, 77	Irr	Cased to bottom. Slotted from 224 to 245 ft. 12-in. 3 stage pump set at 120 ft. <sup>6</sup> / <sub>1</sub>
S-58	--	M. Mummert	do	1952	508	14	RG	67	1953	--	N	Abandoned. <sup>5</sup> / <sub>1</sub>
S-59	--	do	Gene Liberty	1952	160	16	RG	35	1952	T,G, 100	Irr	Cased to bottom. Slotted from 140 to 160 ft. 12-in. 5 stage pump set at 120 ft. Irrigates 225 acres.
*S-60	--	Clayton E. Malone	Bob Johnson	1945	180	12, 8	RG	21	1953	T	Irr	Cased to bottom. Reported yield 275 gpm. <sup>6</sup> / <sub>1</sub> <sup>4</sup> / <sub>1</sub>
*S-61	624 <sup>1</sup> / <sub>1</sub>	Relampago School	--	--	70	--	RG	18	1939	C,W	P	
S-62	W-72 <sup>2</sup> / <sub>1</sub>	L. W. Clifford	Porter Drilling Co.	1953	150	12	RG	52	1957	T,B	Irr	Cased to bottom. Slotted from 135 to 150 ft. Pump set at 120 ft. Reported yield 800 gpm.
S-63	W-73 <sup>2</sup> / <sub>1</sub>	do	A & T Drilling Co.	1948	340	14	RG	--	--	T,B	Irr	Drilled to 413 ft. Cased to 340 ft. Slotted from 310 to 340 ft. <sup>5</sup> / <sub>1</sub>
S-64	--	Hidalgo County Water District No. 9	do	1947	270	10	RG	51.1	Sept.10, 1957	T,E, 25	Ind, D	Drilled to 389 ft. Cased to 270 ft. Screen from 220 to 270 ft. Reported yield 250 gpm. <sup>5</sup> / <sub>1</sub>

See footnotes at end of table.

Table 4.--Records of wells in Hidalgo County--Continued

Well	Old Number (If different)	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
								Below land-surface datum (ft.)	Date of Measurement			
*S-65	546 <sup>1/</sup>	W. D. Chadwick	C. Newman	--	145	6	RG	40	1933	C,W	D,S	Cased to bottom. Water from gravel.
S-66	--	S. J. Barter	Gene Liberty	--	166	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 148 to 166 ft. 10-in. 3 stage pump set at 100 ft. Reported yield 1,000 gpm.
S-67	--	South Mercedes unit well 1	La Gloria Corp.	1945	9,015	--	--	--	--	--	--	Oil test. <sup>5/</sup>

<sup>1/</sup> Lonsdale, J. T., and Nye, S. S. 1941, Records of wells, drillers logs, water analyses, and map showing location of wells in Hidalgo County, Texas: Texas Board Water Engineers, dupl. rept.

<sup>2/</sup> Rose, N. A., 1954, Investigation of ground-water conditions in Hidalgo, Cameron, and Willacy Counties in the Lower Rio Grande Valley of Texas: Lower Rio Grande Valley Chamber of Commerce.

<sup>3/</sup> Pollett, C. R., White, W. N., and Irelan, Burdge, 1949, Occurrence and development of ground water in the Linn-Faysville area, Hidalgo County, Texas: Texas Board Water Engineers, dupl. rept.

<sup>4/</sup> See table 6 for water levels in wells in Hidalgo County, Texas.

<sup>5/</sup> Electric log in files of Texas Board of Water Engineers.

<sup>6/</sup> See table 5 for drillers' logs of wells in Hidalgo County, Texas.

\* See table 7 for analyses of water from wells in Hidalgo County, Texas.

Table 4.--Records of wells in Starr County, Texas

All wells are drilled unless otherwise noted in the remarks column.

Water level : Reported water levels given in feet; measured water levels given in feet and tenths.

Method of lift and type of pump : A, airlift; C, cylinder; Cf, centrifugal; E, electric; G, gasoline; H, hand; T, turbine; W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial, Irr, irrigation; N, none; P, public supply; S, stock.

Water-bearing unit : A, Quaternary alluvium; Rg, Lower Rio Grande ground-water reservoir; O, Oakville sandstone.

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
A-1	Downs Royalty Co.	John Dickens	Old	159	6	--	109.9	Oct. 23, 1950	C,W	S	Casing reported to 150 ft.
*A-2	H. P. Guerra	L. A. Fears	1949	217	5	--	130.2	Oct. 26, 1950	C,W	S	Cased to bottom. Temp. 85½°F. 1/
A-3	Antiocho Munoz	H. L. Staggs	1946	214	6	--	86.8	Oct. 23, 1950	C,W	S	Cased to bottom. Slotted from 196 to 214 ft. 1/
A-4	do	Antiocho Munoz	1910	48	60	--	28.9	do	C,W	D,S	Dug. Casing: 20 ft of stone. "Las Comas Ranch."
*A-5	H. P. Guerra	--	1910	36	96	--	27.4	Oct. 26, 1950	C,W	S	Dug. Casing: 20 ft of concrete. "Charco Largo Ranch". Temp. 82°F.
*A-6	do	John Dickens	1946	325	6	--	132.2 133.0	Oct. 26, 1950 Feb. 5, 1958	C,W	S	Cased to bottom. Temp. 87°F.
*A-7	do	Fritz Vollmer	1932	112	6	--	26.0	Oct. 26, 1950	C,G	D,S, Ind	Cased to bottom. Pumps 75 gpm. Supplies Sun Oil Camp 3 miles west through 2-in. pipe-line. "San Roman Ranch". Temp. 81°F.
*A-8	do	do	1926	170	4	--	56.7	do	C,W	S	Cased to bottom. "Moro Ranch". Temp. 81½°F.
A-9	F. S. de Canales Estate	Raphael Canales	1915	200	6	--	151.3	Oct. 23, 1950	C,W	S	
A-10	Zaragoza Salinas	L. E. Fears	1948	185	4	--	--	--	C,W	S	Cased to bottom. "El Fresnito Ranch". 1/
*A-11	do	Antonio Saenz	1942	100	5	--	47.4	Oct. 18, 1950	C,W	S	Cased to bottom. Temp. 79°F.
A-12	Manuel Hinojosa	-- Williams	1930	255	5	--	38.6 19.8	Oct. 26, 1950 Feb. 5, 1958	C,W	D,S	Cased to 60 ft. "Viboras Ranch".
A-13	Felipe Seenz	Antonio Saenz	1939	42	6	--	22.9	Oct. 23, 1950	C,W	S	Cased to 20 ft.
A-14	Guerra & Canales	Guerra & Canales	1919	36	60	--	25.5	do	C,W	D,S	Dug. Casing: 2 ft of concrete and 17 ft of wood. "San Juan de Dios Ranch".
A-15	Fidel Gonzalez	Fidel Gonzalez	1930	20	48	--	16.1	Oct. 18, 1950	C,W	D,S	Dug. Casing: 10 ft of wood.

\* See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
A-16	Juan Ramos	A. L. Herschap	1950	363	4	--	--	--	C,W	D,S	Cased to 360 ft. "La Casita Ranch".
*A-17	J. O. Clark Fuel Co.	L. A. Fears	1949	540	4	---	---	--	A	Ind, S	Cased to bottom. Used in steam boiler drill rigs. <u>1/</u>
A-18	Cayetano Ramos	--	1950	36	48	--	32.3 34.8	Oct. 18, 1950 Feb. 5, 1958	H	D,S	Dug. No casing. "Aqua Dulce Ranch".
A-19	do	Danrey Petroleum Co.	1937	1,261	8	--	---	--	C,W	N	Oil test, now abandoned.
A-20	Salvadore Salinas	L. A. Fears	1947	238	6	---	---	--	C,G, 3	S, Ind	Cased to bottom. Supplies water for drill rigs. <u>1/</u>
A-21	do	Salvadore Salinas	1948	11	60	---	---	---	C,W	D,S	Dug. Casing: 11 ft of concrete. "Las Escobas Ranch".
A-22	do	Texon Royalty Co.	1947	2,610	--	--	---	---	--	N	Oil test. Altitude 310 ft. <u>2/</u>
*A-23	do	Salvadore Salinas	1925	30	60	--	16.0	Oct. 17, 1950	C,W	S	Dug. Casing: 12 ft of concrete. "Lavor Ranch".
A-24	Maria Guerra	--	1927	30	60	--	26.7	Oct. 23, 1950	C,W	D,S	Dug. Casing: 10 ft of concrete. "San Pedro Ranch".
A-25	Antonio Garcia	Antonio Garcia	1942	38	5	--	26.8	do	C,W	D,S	Cased to bottom. "El Capotito Ranch".
A-26	Loreto Canales well 1	Clark Fuel Production Co.	1948	1,696	--	--	---	--	--	--	Oil test. <u>2/</u>
A-27	Zaragoza Salinas well 1	Cottonwood Corp.	1948	2,208	--	--	---	--	--	--	do
A-28	Jose R. Salinas well 3	Clark Fuel Production Co.	1956	3,584	--	--	---	--	--	--	do
A-29	A. A. Guerra well 1	Hassie Hunt Trust	1951	2,285	--	--	---	--	--	--	do
B-1	King Ranch Corp.	E. R. David	1938	250	5	--	224.9	Mar. 6, 1951	C,W	S	Cased to 240 ft. "La Coma" well.
B-2	do	do	1936	300	5	---	188.7	do	C,W	S	Cased to 285 ft. Sand reported from 285 to 300 ft. "San Juan" well.
B-3	do	do	1946	260	5	--	216.8	do	C,W	S	Cased to 245 ft. "El Sordo" well.
B-4	do	do	1932	250	6	--	---	--	C,W	S	Cased to 245 ft. "Granjenitos" well.

\* See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*B-5	King Ranch Corp.	E. R. David	1943	240	5	--	325.3	Mar. 6, 1951	C,W	S	Cased to 236 ft. "Brazil" well. Temp. 86°F.
B-6	do	do	1932	260	5	--	145.1	do	C,W	S	"San Jose" well.
B-7	do	do	1932	500	5	--	166.1	do	C,W	S	Cased to 250+ ft. "Leoncitos" well.
*B-8	do	--	--	300	6	--	94.9	do	C,W	S	"San Alvarado" well. Temp. 84°F.
B-9	Isidro Guerra	Isidro Guerra	1937	74	60	--	50.3	Oct. 23, 1950	C,W	D,S	Dug. Casing: 6 ft of concrete. "Santa Brizida Ranch".
B-10	Camillo Gonzalez	Antonio Saenz	1948	250	4	--	--	--	C,W	S	Cased to bottom. <u>1</u> / Temp. 84°F.
*B-11	Adolpho Gonzalez	do	1935	500	5	--	197.5	Nov. 16, 1950	C,W	S	Cased to bottom. "El Matho Ranch".
*B-12	Enrique Gonzalez	do	1928	224	4	--	--	--	C,W	D,S	Cased to bottom. Well obstructed at 107 ft.
B-13	do	do	1933	360	4	--	107+	Nov. 1950	C,W	S	Cased to bottom. Temp. 87°F.
B-14	Santiago Gonzalez	John Dickens	1912	300	4	--	190.1 206.9	Nov. 16, 1950 Feb. 5, 1958	C,W	S	Well obstructed at 139 ft. "Las Islas Ranch".
B-15	H. P. Guerra	Fritz Vollmer	1922	294	--	--	139+	Oct. 1950	C,W	D,S	Cased to bottom.
B-16	do	Jack O'Neill	1940	318	5	--	232.5	Oct. 25, 1950	C,W	S	Cased to bottom. <u>1</u> / Cased to bottom.
B-17	Pedro A. Saenz	Fred Fielder	1949	462	5	--	240.7	Oct. 5, 1950	C,W	S	Oil test. <u>2</u> / do
B-18	Isidro Guerra well 1	Miller & Pierce	1952	2,263	--	--	--	--	--	--	do
B-19	E. O. Gonzales well 1	Humble Oil & Refining Co.	1947	5,514	--	--	--	--	--	--	do
C-1	M. M. Guerrero	Sun Oil Co.	1942	700	8	0	131.7 134.9	Nov. 19, 1953 Feb. 6, 1958	N	N	Oil test. Drilled to 5,282 ft. Plugged back to 700 ft. Casing: 100 ft of 8-in; 600 ft of 6-in. <u>1</u> / do
C-2	do	Fritz Vollmer	1937	350	4	--	--	--	C,W	D,S	Cased to bottom. "Buenos Aries Ranch".
*C-3	do	L. A. Fears	1950	308	4	--	85.4 88.1	Oct. 11, 1950 Feb. 6, 1958	C,W	S	Cased to 303 ft. Temp. 84°F. <u>1</u> / do
*C-4	H. P. Guerrero	Ramon Falcon	1937	311	4	--	117.6	Oct. 25, 1950	C,W	D,S	Cased to bottom.
C-5	R. T. Margo	John Dickens	1944	265	4	--	--	--	C,W	S	do

\* See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
C-6	R. T. Margo	Fritz Vollmer	1932	300	5	--	113.0	Oct. 11, 1950	C,W	S	Cased to 285 ft.
*C-7	do	A. L. Herschap	1950	665	6	0	82.8 89.1	Nov. 19, 1953 Feb. 6, 1958	A	Ind, S	Cased to 651 ft. Used for State road construction. To be used for irrigation. <u>1/</u>
C-8	do	Antonio Saenz	1937	305	6	--	--	--	C,W	Ind, D	Cased to 300 ft. Supplies water for cotton gin.
*C-9	Antonio Garcia	Antonio Garcia	1920	100	88	--	28.5	Oct. 11, 1950	C,W	D,S	Dug. Casing: 10 ft of concrete. "Sal Colorado Ranch".
C-10	Leocadio Olivarez	L. A. Fears	1948	90	4	--	72.9	Oct. 11, 1950	C,W	D,S	Cased to bottom.
C-11	Ramon Lopez Estate	Francisco Vela	1950	76	4	--	--	--	C,W	D,S	Driven. No casing+ "Tres Reyes Ranch".
*C-12	Pedro A. Saenz	--	1935	98	4	--	67.2	Sept. 3, 1945	C,W	D	Cased to 22 ft. "La Gloria Ranch".
*C-13	H. P. Guerra	Fritz Vollmer	1941	110	4	--	79.8	Oct. 25, 1950	C,G	Ind	Cased to bottom. Used for cotton gin.
C-14	W. B. Osburn	--	1941	420	6	--	86.7 93.2	Oct. 5, 1950 Feb. 6, 1958	C,W	S	<u>2/</u>
C-15	H. P. Guerra	Ramon Falcon	1928	310	5	--	211.0	Oct. 25, 1950	C,W	S	Cased to bottom. <u>1/</u>
C-16	Arcadio Rodriguez	Fred Fielder	1949	382	4	--	204.1	Oct. 5, 1950	C,W	S	Cased to bottom. Temp. 78°F. <u>1/</u>
*C-17	Ignacio Trevino	Antonio Saenz	1949	410	4	--	208.6 212.0	Oct. 5, 1950 Feb. 6, 1958	C,W	S	Cased to bottom. Temp. 78°F. <u>1/</u>
C-18	E. A. Montalvo	Pedro Garcia	1903	110	4	--	--	--	C,W	D,S	Cased to bottom.
C-19	Vidal Perez	--	1924	330	4	--	175.4	Sept. 11, 1950	C,W	D,S	Cased to 300 ft. "San Jose Ranch".
*C-20	Leandro Saenz	L. A. Fears	1948	254	4	--	92.6	do	C,W	S	Cased to bottom. Temp. 80°F.
C-21	Mrs. S. G. Pena	do	1949	251	4	--	84.5	do	C,W	S	Cased to bottom. <u>1/</u>
C-22	Vincente Saenz	Antonio Saenz	1937	250	4	--	75.4	do	C,W	D,S	"Las Medianito Ranch".
C-23	do	--	Old	145	84	--	78.1	Sept. 11, 1950	C,W	D,S	Dug. Casing: 10 ft of stone.
*C-24	Cruz Saenz	Grenshaw Co.	1949	150	4	--	51.1	Sept. 12, 1950	C,W	D	Cased to 20 ft. "Santa Anna Ranch".
C-25	S. S. Saenz	Antonio Saenz	1947	175	4	--	62.0	do	C,W	D	Cased to 60 ft.

\* See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
C-26	Gilberto Alinez	Antonio Saenz	1949	262	4	--	--	--	C,W	D,S	Cased to bottom.
C-27	Raphael Ramirez	Felipe Saenz	1920	220	5	--	191.6	Sept. 26, 1950	C,W	S	"El Estribo Ranch".
C-28	Maurio Ramirez	do	1927	365	5	--	--	--	C,W	D,S	Cased to bottom. "Santa Anita Ranch".
C-29	Albino Alinez	Hunt & Holland Co.	1947	5,511	--	--	--	--	--	--	Oil test. Altitude, 464 ft. <u>2/</u>
C-30	--	--	--	1,505	--	--	--	--	--	--	do
C-31	N. R. Montalvo well 12	Humble Oil & Refining Co.	1953	7,002	--	--	--	--	--	--	do
D-1	Rene Montalvo	--	Old	51	84	--	28.3	Sept. 6, 1950	C,W	D,S	Dug. Casing: 4 ft of stone. "Santa Elena Ranch".
D-2	Laurencio Garza	Enrique Garza	1940	90	5	--	45.0	do	C,W	D,S	Driven. Cased to 20 ft.
D-3	do	--	1860	72	120	--	41.9	do	C,W	S	Dug. Casing: 20 ft of stone.
*D-4	Victor Contreras	Alberto Vela	1947	84	6	--	37.7	Sept. 6, 1950	C,W	D,S	Driven. Cased to 12 ft.
*D-5	Andrea Garza	Antonio Saenz	1948	217	4	--	43.0 48.8	Oct. 5, 1950 Feb. 6, 1958	C,W	S	Cased to bottom.
D-6	Santiago Pena	Santiago Pena	1929	60	4	--	43.3	Aug. 31, 1950	C,W	D,S	Driven. Cased to 6 ft.
D-7	Emilio Trevino	Eugene Garner	1943	407	4	--	--	--	C,W	D, Ind	Cased to bottom. Gun-perforated 371 to 407 ft. Water used for steam boiler rigs for drilling. <u>1/</u>
D-8	do	--	1910	125	4	--	44.2	Sept. 6, 1950	C,W	D,S, Irr	Cased to 10 ft. Irrigates approximately one acre.
*D-9	Mrs. Eustacio Zarate	Sun Oil Co.	1945	500	4	--	89.0	do	C,W	S	Cased to bottom.
D-10	Juan Villareal	--	Old	85	12	--	69.9	do	C,W	S	Driven.
D-11	M. Valverde	Francisco Vela	--	55	8	--	28.1	Aug. 30, 1950	C,W	D,S	Driven. Casing: 4 ft of tile.
*D-12	Augustine Olivarez	--	--	120	6	--	25.1	Sept. 5, 1950	C,W	D,S	Driven.
D-13	Enrique Garza	Enrique Garza	1923	90	60	--	28.8	Aug. 31, 1950	C,W	D,S	Dug. Casing: 40 ft of stone.
D-14	Manuel Laurel	L. A. Fears	1949	124	4	--	54.3	do	C,W	D,S	Cased to bottom. "San Raphael Ranch".

\* See footnotes at end of table.



Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
D-15	Melico Contreras	M. Vela	1930	70	5	--	20.4	Aug. 31, 1950	C,W	D,S	Driven. Cased to 8 ft.
D-16	Rene Montalvo	Manuel Villareal	1938	90	4	--	42.3	do	C,W	S	Driven. Cased to 10 ft.
D-17	E. A. Montalvo	A. H. Masirun	1941	927	7, 6	0	--	--	C,G	D,Ind	Casing: 482 ft. of 7-in.; 445 ft. of 6-in. Water used for steam boiler for drilling rigs. <u>1/</u>
D-18	San Isidro School District	Francisco Vela	1928	100	4	--	25.3	Aug. 17, 1950	C,W	N	Cased to 2 ft.
*D-19	do	Pursley & Sons	1950	823	7	0	--	--	T,E, 3	P	Cased to bottom. Supplies San Isidro School, 700 enrollment. <u>1/</u>
D-20	Blas Pena Gonzalez	--	1820	36	72	--	18.7 21.0	Aug. 17, 1950 Feb. 6, 1958	H	S	Dug. Believed to be oldest well in Starr County. Used in 1949 for gravel-pit work. "San Isidro Viejo Ranch".
D-21	Francisco Vela	Santiago Vela	1910	85	4	--	--	--	C,W	S	Driven.
D-22	Bruna Zarate Silva	Francisco Vela	1906	80	5	--	19.6	Aug. 17, 1950	H	S	do
D-23	Faustino Villareal	do	1926	60	6	--	22.7	do	C,W	D,S	do
D-24	Humble Oil & Refining Co.	Pursley & Sons	1950	889	4	0	56.0 64.6	Dec. 2, 1953 Feb. 6, 1958	A	Ind	Cased to 880 ft. Water used for steam boilers for drilling rigs. <u>1/</u>
D-25	Armado Garza	Basilio Olivarez	1880	50	84	--	39.1	Aug. 30, 1950	C,W	D,S	Casing: 5 ft. of rock.
*D-26	Jay Simmons	A. H. Maisen	1947	844	4	0	--	--	A	D,Ind	Cased to bottom. Water used for steam boilers for drilling rigs, and by two families for domestic use.
D-27	J. Garcia	--	1929	90	6	--	52.0	Sept. 5, 1950	C,W	S	Casing: 4 ft. of tile.
*D-28	Guerra Bros.	Fred Fielder	1945	710	4	0	35.2	do	C,G, 4	D,S, Ind	Cased to bottom. Used in cotton gin. "La Reforma Ranch".
D-28a	Arcadio Guerra	Sun Oil Co.	1949	2,036	-	--	--	--	N	N	Oil test. Owner intends to irrigate with well. <u>2/</u>
D-29	Blas Recenes	Blas Recenes	1938	79	5	--	33.7	Aug. 30, 1950	C,W	D,S Irr	Driven. Cased to 3 ft. Irrigates 50 citrus trees.
D-30	Josepha L. Honojosa	Marcos Pena	1920	80	4	--	27.6	do	C,W	D,S Irr	Driven. Cased to 20 ft. Irrigates one-half acre.
D-31	Felipe Recenes	Felipe Recenes	1932	60	4	--	--	--	C,W	D,S	Driven. No casing.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of measurement			
D-32	Saras Faries	Francisco Vela	1925	53	5	--	21.6	Aug. 17, 1950	H	D,S	Driven. Cased to 4 ft.
D-33	Daniel Garza	do	1915	100	7	--	15.7	Aug. 31, 1950	C,W	D,S	Driven. Casing: 4 ft. of tile.
D-34	E. A. Montalvo	John Dickens	1910	220	7	--	62.5	Nov. 15, 1950	C,W	S	Casing: 4 ft. of galvanized iron.
D-35	Santiago Rodriguez	Francisco Vela	1928	100	7	--	58.4	Aug. 16, 1950	C,W	S	Driven. Cased to 5 ft.
D-36	Francisco Alvarado	--	Old	60	7	--	--	--	H	S	Dug. Casing: 4 ft. of stone.
D-37	Martha F. Villareal	Marcos Pena	1920	130	4	--	41.1	Aug. 16, 1950	C,W	D,S	Driven. Casing: 5 ft. of galvanized iron.
D-38	M. G. Pena	Manuel Villareal	1929	90	4	--	32.7	Aug. 30, 1950	C,W	D,Irr	Driven. Cased to 13 ft. Irrigates 25 citrus trees. "Delmita Ranch".
D-39	Marcos Pena	Sun Oil Co.	1947	200	4, 3	--	29.3	Aug. 15, 1950	C,W	S	Casing: 20 ft. of 4-in.; 180 ft. of 3-in.
D-40	Narcisco Gonzalez	Inocente Gonzalez	1890	190	100	--	50.0	Aug. 10, 1950	C,W	D,S	Dug. Casing: 5 ft. of stone.
D-41	Cristophe Lopez	Miquel Gonzalez	1923	120	6	--	41.6	do	C,W	D,S	Driven. Cased to 20 ft.
D-42	G. S. Pena	Francisco Vela	1929	100	4	--	--	--	C,W	D,S	Driven.
D-43	Pedro Pena	N. Pena	1924	90	5	--	47.8	Aug. 30, 1950	C,W	D,S	Driven. Cased to 6 ft.
*D-44	L. Pena	Manuel Villareal	1945	150	5	--	--	--	C,W	D,S	Driven.
D-45	Maria Lopez Pena	Raphael Pena	1908	152	4	--	58.0	Aug. 15, 1950	C,W	D,S	Driven. Cased to 5 ft.
D-46	Jose R. Laurel	Francisco Vela	--	130	4	--	--	--	C,W	D,S, Irr	Driven. Cased to 10 ft. Irrigates 9 citrus trees.
D-47	Ignacia Villareal	do	1918	135	4	--	56.8	Aug. 16, 1950	C,W	D,S	Driven. Cased to 5 ft.
D-48	M. J. Rodriguez	Crenshaw Bros.	1949	925	8	0	--	--	T,C, 40	Irr	Cased to bottom. Irrigates approximately 50 acres. Supplies water for construction of State Highway. "El Centro Ranch".
D-49	do	L. A. Pears	1950	307	6	--	95.2	Sept. 25, 1950	N	N	Cased to bottom. <u>1/</u>
*D-50	do	J. R. Johnson	1950	962	8	0	--	--	T,C	Irr	Cased to bottom. Reported yield 589 gpm; drawdown 172 ft. Cemented from 532 ft. to surface. Irrigates approximately 50 acres. <u>1/2/</u>
D-51	do	L. A. Pears	1949	338	5	--	--	--	C,G	S	Cased to 186 ft. <u>1/</u>
D-52	Santiago Hernandez	Manuel Villareal	1944	125	6	--	84.2	Aug. 21, 1950	C,W	D,S Irr	Cased to 5 ft. Irrigates 15 citrus trees.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
D-53	--	--	--	1,626	-	--	--	--	--	--	Test hole. <u>2/</u>
D-54	--	--	--	1,708	-	--	--	--	--	--	do
D-55	--	--	--	1,410	-	--	--	--	--	--	do
D-56	--	--	--	1,597	-	--	--	--	--	--	do
D-57	McGill Bros. well 195	Humble Oil & Refining Co.	1953	6,972	-	--	--	--	--	--	Oil test. <u>2/</u>
D-58	F. M. Saenz well 1	Clark Fuel Production Co.	1951	4,708	-	--	--	--	--	--	do
E-1	H. P. Guerra	Glenn Harroun	1937	3,003	-	--	--	--	N	N	Oil test. <u>2/</u>
E-2	do	--	1922	280	6	--	188.7	Nov. 2, 1950	C,W	S	Cased to bottom. Temp. 83°F.
*E-3	do	John Dickens	1938	305	4	--	291.0	do	C,G	S	Cased to bottom.
E-4	do	--	1907	280	5	--	184.2	Oct. 31, 1950	C,W	S	Temp. 81½°F.
E-5	do	John Dickens	1926	315	5	--	254.3	Nov. 2, 1950	C,W	S	Cased to bottom. Temp. 84°F.
*E-6	do	Bob Colbath	1921	250	4	--	214.5	do	C,W	S	Temp. 81½°F.
*E-7	do	John Dickens	1940	300	6	--	186.1	do	C,W	D,S	Cased to bottom. "Sandia Ranch".
*E-8	R. T. Margo	Berkshire Co.	--	700	8	--	34.0 29.3 27.4	Jan. 10, 1956 Jan. 9, 1957 Feb. 5, 1958	C,W	S	Oil test drilled to 3,011 ft. Plugged back to 700 ft. in 1940. Temp. 81°F.
E-9	H. P. Guerra	T. E. Stephens	1935	360	5	--	182.5 174.2	Oct. 31, 1950 Feb. 5, 1958	C,W	S	Oil test drilled to 3,000 ft. Finished as water well to 360 ft. Cased to 360 ft.
*E-10	Santos Canales	John Dickens	1930	262	5	--	--	--	C,W	D,S	Cased to bottom. <u>1/</u>
E-11	Ubaldo Hinojosa	Gil Hinojosa	1947	250	4	--	219.6	Nov. 2, 1950	C,W	S	Cased to bottom. Headquarters "Guerra Ranch".
E-12	H. P. Guerra	Bob Colbath	1921	275	4	--	--	--	C,W	D,S	Cased to bottom. "Falcon Heights Tourist Camp". <u>1/</u>
*E-13	L. J. Ruthven	L. A. Fears	1949	268	6	--	154.6	Dec. 15, 1950	T,E, 2	D,P	Cased to bottom. "Falcon Heights Tourist Camp". <u>1/</u>
E-14	do	A. L. Herschlap	1951	818	7	--	--	--	T,E	D,P	Cased to bottom. "Falcon Heights Tourist Camp."
E-15	Mrs. -- Bates	do	1950	303	4	--	--	--	T,E, 1	D,P	Cased to 297 ft. Water sands at 256-275 ft. and 281-303 ft. Supplies water for tourist camp.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of measurement			
E-16	Jose Pena	John Dickens	1928	115	6	--	--	--	C,W	D,S	Cased to bottom.
E-17	Andres Canales	Antonio Suenz	1944	180	6	--	--	--	C,W	D,S	Cased to bottom. Well obstructed at 72 ft.
E-18	Ubaldo Hinojosa	L. A. Fears	1947	240	4	--	187.5	Nov. 20, 1950	C,W	S	Cased to bottom. Temp. 81°F.
*E-19	Juan Margo	Juan Margo	1910	71	60	--	59.4	Oct. 31, 1950	C,W	D,S	Casing: 8 ft. of brick. "Loma Blanca Ranch".
*E-20	Meiquiades S. Salinas	R. C. Hillman	1946	350	4	--	237.3 237.9	Oct. 31, 1950 Feb. 5, 1958	C,W	D,S	Oil test to 3,937 ft. Finished as water well to 350 ft. Temp. 83½°F.
E-21	Manuel Ramirez	John Dickens	1932	260	5	--	--	--	C,W	S	Cased to bottom. Reported water of poor quality.
E-22	Rodolfo Munoz	Rodolfo Munoz	1925	62	60	--	57.0	Nov. 1, 1950	C,W	S	Casing: 12 ft. of brick. Temp. 80°F.
E-23	H. P. Guerra	John Dickens	1936	315	4	--	135.2	do	C,W	S	Cased to bottom.
E-24	do	R. C. Hillman	1940	382	6	--	233.2	Oct. 31, 1950	C,W	S	Oil test to 2,241 ft. Finished as water well to 382 ft. Cased to 380 ft.
*E-25	do	-- Borah	1930	250	10	--	105.8	Nov. 1, 1950	C,W	S	Oil test to 897 ft. Finished as water well to 250 ft. Temp. 80½°F.
E-26	do	Bob Colbath	1920	300	6	--	108.3	do	C,W	S	Temp. 78°F.
E-27	H. Gonzalez Estate	--	--	192	6	--	106.4	Sept. 1, 1945	C,W	S	Abandoned.
*E-28	Nicolas Silva	John Dickens	1943	100	6	--	92.0 46.6	Nov. 1, 1950 Feb. 5, 1958	C,W	D,S	Cased to 13 ft. In Falcon Dam right-of-way. "Chapeno Ranch". Temp. 82°F.
E-29	do	L. A. Fears	1946	60	6	--	49.7	Nov. 1, 1950	C,W	D	Cased to 38 ft. "Chapeno Ranch".
E-30	Felix Luera	do	1946	125	6	--	--	--	C,W	D,S	Cased to bottom.
E-31	Luis Martinez well 1	Tom R. Cunningham	1953	1,011	--	--	--	--	--	--	Oil test. 2/
*F-1	Salvadore Salinas	L. A. Fears	1950	340	6	--	125.4	Oct. 18, 1950	C,W	S	Cased to bottom. Temp. 83°F. 1/
F-2	do	do	1950	250	6	--	79.2	do	C,W	S	Cased to bottom. Temp. 81½°F. "Chapotito Ranch".
*F-3	do	do	1947	240	4	--	40.7 38.8	Oct. 17, 1950 Feb. 3, 1958	C,W	S	Cased to bottom. Temp. 82°F.
F-4	Ignacio Gutierrez	do	1950	232	6	--	--	--	N	N	Cased to bottom. Reported water unfit for any use. 1/
F-5	Pilar Guerra	Felipe Suenz	1929	280	4	--	--	--	C,W	D,S	Cased to 220 ft. "Mira Solis Ranch".

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
F-6	Hicasio Guerra	Antonio Saenz	1944	110	4	--	46.6	Oct. 2, 1950	C,W	D,S	Cased to bottom.
F-7	Francisco Pena	--	Old	46	84	--	32.2	Oct. 19, 1950	C,W	D,S	Casing: 23 ft. of stone, "Puerto Ranch".
F-8	H. Gonzalez Estate	--	1925	95	4	--	13.6	do	N	N	Cased to bottom. Abandoned.
F-9	Faustino Ramos	A. L. Herschlap	1950	258	4	--	13.4	Oct. 2, 1950	C,W	S	Cased to 254 ft. Well flowed when drilled. <u>1/</u>
*F-10	Juan Ramos	do	1950	129	4	--	13.8	do	C,W	S	Cased to bottom. Well flowed when drilled. <u>1/</u>
F-11	Guillermo Villareal	Antonio Saenz	1944	110	4	--	56.4	Oct. 16, 1950	C,W	D,S	Cased to bottom.
*F-12	Nicasio Guerra	A. L. Herschlap	1950	381	4	--	44.2	do	C,W	S	Cased to bottom. Well flowed when drilled. Temp. 78°F. <u>1/</u>
F-13	Jesus Villareal	L. A. Fears	1950	318	4	--	7.3	Oct. 2, 1950	C,W	S	Cased to bottom. <u>1/</u>
*F-14	Abel J. Sanchez	Antonio Saenz	1940	285	6	--	--	--	C,W	D,S	Cased to bottom.
F-15	H. Gonzalez Estate	-- Kelly	1937	300	4	--	--	--	C,W	S	Cased to bottom. Temp. 81.5°F.
*F-16	Antonio Saenz	Antonio Saenz	1944	200	5	--	97.2 124.6	Nov. 13, 1950 Feb. 5, 1958	C,W	S	Cased to 200 ft. Water sand reported at 150-163 ft. Temp. 82°F.
F-17	Franquillino Garcia	L. A. Fears	1947	278	6	--	141.9	Oct. 16, 1950	C,W	S	Cased to bottom.
F-18	T. M. Munoz	Felipe Saenz	1930	300	4	--	--	--	C,W	D,S	Cased to 90 ft. "San Manuel Ranch".
F-19	Pedro Olivarez	--	1943	26	42	--	21.5	Nov. 13, 1950	C,W	S	Casing: 18 ft. of concrete and brick.
F-20	do	Antonio Saenz	1948	280	5	--	58.8	do	C,W	S	Abandoned.
*F-21	Enrique Gonzalez	Dan Tarbutton	1946	204	5	--	42.7	Sept. 20, 1950	C,W	S	Cased to bottom. Screened: 153 to 186 ft. <u>1/</u>
F-22	Pedro Olivarez	L. A. Fears	1950	155	4	--	--	--	C,W	S	Cased to bottom. <u>1/</u>
F-23	Santiago Clark	--	Old	37	42	--	25.7	Oct. 2, 1950	C,W	S	Dug. Casing: 20 ft. of stone.
F-24	Estaban Escobar	Estaban Escobar	1917	64	54	--	44.1 44.6	Oct. 19, 1950 Feb. 5, 1958	C,W	D,S	Dug. Casing: 10 ft. of concrete.
*G-1	Procopio Guerra	A. L. Herschlap	1949	515	5	--	+	Jan. 3, 1951	Flows	S	Cased to 450 ft. Flows 1 1/2 gpm. Temp. 84°F.
G-2	Adolpho Gonzalez	Stanclind Oil Co.	1949	1,000	5	--	14.6	Nov. 16, 1950	N	N	Oil test. To be used as water well for stock.
G-3	do	Antonio Saenz	1940	225	4	--	--	--	C,W	S	Cased to bottom. "Monterrey Ranch".
*G-4	H. F. Guerra	John Dickens	1935	290	4	--	185.6	Oct. 25, 1950	C,W	S	Cased to bottom. "Las Islas Ranch".

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Days of measurement			
G-5	H. P. Guerra	Bob Colbath	1921	276	4	--	--	--	C, G, 2	S	Cased to bottom.
G-6	do	Fritz Vollmer	1934	298	6	--	205.4	Sept. 13, 1950	C, W	S	Temp. 83°F.
G-7	do	Bob Colbath	1921	290	5	--	247.8	do	C, W	S	Cased to bottom.
G-8	Pedro Salinas	A. L. Herschap	1949	396	4	--	241.8	Sept. 14, 1950	C, W	S	Cased to 391 ft. <u>1</u> / "El Negro Ranch".
G-9	George Coates	Antonio Saenz	1928	402	4	--	--	--	C, W	S	do
G-10	do	A. D. Killinger	--	400	4	--	--	--	C, W	D, S	do
*G-11	do	--	1943	530	4	--	--	--	C, W	S	Temp. 85°F.
G-12	do	Antonio Saenz	1944	500	4	--	127.0	Sept. 14, 1950	C, W	N	Cased to bottom.
G-13	do	do	1944	375	4	--	163.9	Sept. 15, 1950	C, W	S	do
G-14	do	do	1942	275	5	--	121.4	Sept. 14, 1950	C, W	S	do
G-15	Raphaela Lopez	L. A. Fears	1940	243	4	--	--	--	C, W	S	Cased to bottom. <u>1</u> / do
G-16	Horacio Saldana	do	1948	308	4	--	199.8	Sept. 14, 1950	C, W	S	do
*G-17	Isabel S. Lopez	J. M. Lopez	1905	32	8 1/2	--	24.4	do	C, W	D, S Ind	Dug. Casing: 1.5 ft. of concrete. Supplies water for 5 families. Has been used for water for steam boilers for drilling rig. "El Rucio Ranch".
*G-18	Lila Martinez	--	1931	285	6	--	--	--	C, W	D, S	"La Morita Ranch".
*G-19	Enrique Gonzalez	John Dickens	--	290	6	--	--	--	C, W	S	Cased to bottom.
*G-20	do	Antonio Saenz	1940	260	6	--	--	--	C, W	S	do
G-21	Mrs. Edna Schwartz	L. A. Pears	1950	535	5	--	--	--	T, F, 1 1/2	S	Cased to 382 ft. <u>1</u> / do
G-22	Domingo L. Garza	Antonio Saenz	1934	400	5	--	259.9	Sept. 7, 1950	C, W	S	Cased to 300 ft.
*G-23	do	do	1929	284	5	--	217.1	Sept. 20, 1950	C, W	S	Cased to 283 ft. "Santa Rosa Ranch".
*G-24	Leandro Resendez	do	1943	380	6	--	100.3 94.4	Nov. 15, 1950 Feb. 5, 1958	C, W	S	Cased to bottom.
*G-25	Martin Garza	Howard Staggs	1940	275	6	--	64.5	Aug. 2, 1950	C, W	S	Cased to bottom.
G-26	Santano Guerrero	Antonio Saenz	1945	303	6	--	135.1	do	C, W	S	do
G-27	Starr County Land & Cattle Co.	Sun Oil Co.	1942	5,119	-	--	--	--	--	--	Oil test. <u>2</u> / do

See footnotes at end of table.

Table 4. --Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
G-28	H. P. Guerra well A-1	Sun Oil Co.	1952	5,236	-	--	--	--	--	--	Oil test. 2/
G-29	M. Guerra, Jr., et al well D-1	CAM Corp.	1949	5,590	-	--	--	--	--	--	do
H-1	Cecilia S. Alaniz	Antonio Saenz	1948	260	4	--	186.3	Sept. 26, 1950	C,W	S	Cased to bottom. 1/
H-2	do	--	1915	360	5	--	170.6	do	C,W	D,S	Supplies water for 2 families. "San Pedro Ranch".
*H-3	Cruz Saenz	--	1890	71	72	--	42.6	Sept. 12, 1950	C,W	D,S	Dug. Casing: 13 ft. of concrete. Supplies water for 4 families. "Santa Anna Ranch".
H-4	Jose Trevino	--	1920	--	4	--	--	--	C,W	D,S	Cased to bottom. 1/
H-5	Cruz Saenz	Fred Fielder	1949	375	4	--	66.2	Sept. 12, 1950	N	N	Dug. Casing: 20 ft. of concrete. "Santa Catarina Ranch".
H-6	Felix Mexia	S. Saenz	1890	96	60	--	78.3	do	C,W	D,S	Dug. Casing: 10 ft. of stone. "Las Delicias Ranch".
H-6a	Santiago Saenz	Santiago Saenz	1908	60	48	--	11.8	Sept. 11, 1950	C,W	D,S	Cased to bottom. "Berlin Ranch". Temp. 85°F.
*H-7	M. S. Hinojosa	L. A. Fears	1946	130	4	--	44.3	do	C,W	D,S	Cased to bottom. Temp. 87°F.
*H-8	Hilario Saenz	do	1945	256	4	--	72.7	do	C,W	D,S	Cased to bottom. Used in cotton gin only.
H-9	Elizondo & Ramirez	A. L. Herschap	1949	490	4	--	--	--	T,F, 1 1/4	Ind	Cased to bottom. "San Blas Ranch".
*H-10	Eugenio A. Saenz	Lasro Guerrero	1925	365	4	--	239.5	Sept. 26, 1950	C,W	D,S	Cased to bottom. Temp. 82°F. 1/
H-11	H. P. Guerra	Antonio Saenz	1937	276	4	--	--	--	C,W	S	Cased to bottom.
H-12	Rene Soils	L. A. Fears	1946	216	4	--	165.4	Sept. 26, 1950	N	N	Cased to bottom. 1/
H-13	Librado Garza	do	1948	282	4	--	152.6 139.4	Sept. 12, 1950 Feb. 6, 1958	C,W	S	Cased to bottom. Temp. 81°F. 1/
H-14	Hilario Garza	Antonio Saenz	1948	300	4	--	195.1	Sept. 12, 1950	C,W	D,S	Cased to bottom. "Santa Maria Ranch".
H-15	Santiago S. Valverde	L. A. Fears	1946	311	4	--	165.3	do	C,W	D,S	Cased to bottom. Temp. 82°F. 1/
H-16	Andres Garza	Antonio Saenz	--	290	4	--	165.3	do	C,W	D,S	Cased to bottom.
H-17	Hilario Garza	--	1928	325	4	--	190.0	do	C,W	S	Cased to bottom. Temp. 81°F.
H-18	Andres Garza	Andres Garza	1912	90	156	--	20.4	Sept. 11, 1950	C,W	D,S	Dug. 5 1/2 ft. of stone. "Coyote Ranch".
H-19	Vidal Perez	Antonio Saenz	1934	100	4	--	16.5	do	C,W	S	Cased to bottom.

See footnotes at end of table.

Table 4.-- Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
H-20	Mrs. S. G. Pena	Antonio Saenz	1938	325	4	--	194.6	Aug. 1, 1950	C,W	S	Cased to bottom.
*H-21	do	do	1947	400	6	--	199.0 196.0	Aug. 1, 1950 Feb. 6, 1958	C,W	S	Cased to bottom.
H-22	F. A. Garza	L. A. Fears	1946	315	3	--	202.2	Sept. 27, 1950	C,W	S	Cased to bottom. <u>1/</u>
H-23	Andres Garza	Antonio Saenz	1947	330	4	--	166.3	Sept. 27, 1950	C,W	S	Cased to bottom.
H-24	Rumberto Rangel	do	1936	375	3	--	--	--	C,W	D,S	do
H-25	Felix F. Martinez	Santiago Barrera	1927	380	6	--	223.3	Aug. 1, 1950	C,W	D,S	Cased to bottom. "Santa Fe Ranch".
H-26	do	Antonio Saenz	1948	350	5	--	240.1	Aug. 21, 1950	C,W	S	Cased to bottom. <u>1/</u>
*H-27	Arkansas Fuel Co.	M. & W. Pullen Co.	1945	1,007	6	--	--	--	C,G, 5	D	Cased to 900 ft. Reported unfit for human consumption. Sand from 900 to 1,000 ft.
H-28	Pablo A. Saenz	Santiago Escobar	1925	100	4	--	--	--	C,W	D,S	Driven. Cased to 10 ft. "La Copita Ranch".
H-29	Sun Oil Co.	Sun Oil Co.	1941	335	4	--	--	--	C,G 5	D	Cased to 325 ft. <u>1/</u>
*H-30	Melico Longoria	do	1942	200	3	--	--	--	C,W	D,S	Cased to 100 ft. Supplies 3 families. U. S. Coast & Geodetic Survey B.M. 25 ft. west. Altitude 431.32. "El Perdido Ranch".
H-31	Rene Solis	L. A. Fears	1948	250	4	--	--	--	C,W	D,S	Cased to bottom.
H-32	Roberto Garza	Antonio Saenz	1942	245	4	--	--	--	C,W	D,S	Cased to 233 ft.
H-33	Cameron Ranch	John Dickens	1934	270	6	--	193.9	Aug. 1, 1950	C,W	D,S	Cased to bottom.
*H-34	Liberato Barrera	L. A. Fears	1949	281	5, 4	--	160.5	Sept. 13, 1950	C,W	D,S	Casing: 162 ft. of 5-in.; 119 ft. of 4-in. <u>1/</u>
*H-35	Leandro Elizondo	Lazaro Guerra	1925	215	4	--	121.6	Sept. 7, 1950	C,W	D,S	Cased to 200 ft.
H-36	do	John Dickens	1944	100	4	--	20.5	do	C,W	D,S	Cased to bottom.
H-37	do	Kirby Petroleum Co.	1944	470	4	--	--	--	C,W	S	do
H-38	Manuel Martinez	Gene Liberty	1948	425	7	--	--	--	C,W	S	do
*H-39	Rowan & Hope	L. A. Fears	1948	540	6	--	--	--	A	D,Ind	Cased to bottom. Water sand at 500-540 ft. Water used in steam boilers for drilling rigs. Temp. 86°F.
H-40	George Pridemore	--	1946	300	5	--	--	--	C,W	D,S	
H-41	Francisco Alvarado	Eugene Garner	1944	364	6	--	262.2	Aug. 1, 1950	C,W	D,S	Cased to bottom. "El Rabon Ranch".

See footnotes at end of table.



Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
H-42	J. M. Martinez	John Dickens	1927	240	4	--	208.7 205.1	Sept. 7, 1950 Feb. 6, 1958	C,W	S	Cased to bottom. U. S. Coast & Geodetic Survey B.M. 100 feet east. Altitude 462.46 ft.
H-43	Ramon Alvarez	--	1932	250	5	--	--	--	C,W	S	"Piloncillo Ranch".
H-44	Cameron Ranch	--	1932	375	6	--	189.9	Sept. 13, 1950	C,W	S	"La Corona Ranch".
*H-45	do	John Dickens	1943	245	6	--	--	--	C,W	S	Cased to bottom.
H-46	do	do	1937	250	6	--	172.3 179.9	Sept. 13, 1950 Apr. 15, 1955	C,W	S	Cased to bottom.
*H-47	do	do	1946	260	6	--	--	--	C,W	D,S	Cased to bottom. "Cameron Ranch" headquarters.
H-48	D. W. Cowan	Arthur Erdmann	1950	316	4	--	189.8	Sept. 26, 1950	C,G, 4	S	Cased to bottom. 1/
H-49	Cameron Ranch	John Dickens	1936	240	5	--	220.0	Sept. 14, 1950	C,W	S	Cased to bottom.
H-50	T. W. Slick Estate	do	1938	240	6	--	196.8	Aug. 1, 1950	C,G, 3	S	do
*H-51	Cameron Ranch	do	1937	254	6	--	--	--	C,W	S	do
*H-52	do	Dan Tarbutton	1946	260	6	--	194.6 201.5	Dec. 2, 1953 Feb. 6, 1958	C,W	S	Cased to bottom. 2/
H-53	George Pridemore	--	1935	300	5	--	--	--	C,W	S	do
H-54	J. A. Wetzel	H. C. Stoops	1920	270	6	--	--	--	C,W	D,S	Cased to 100 ft. "Rincon Ranch".
*H-55	Continental Oil Co.	W. R. Davis Co.	1945	963	7	0(?)	--	--	A	Ind	Cased to 907 ft. Too salty for steam boilers. Used for cooling in Diesel rigs. "Continental Rincon Camp".
H-56	San Antonio Loan & Trust Co.	Humble Oil & Refining Co.	1947	400	5	--	159.5 146.8	Nov. 15, 1950 Feb. 6, 1958	C,W	S	Reported small supply.
H-57	do	Antonio Saenz	1941	240	5	--	168.6	Jan. 10, 1951	C,W	S	Cased to bottom.
H-58	Cameron Ranch	John Dickens	1936	240	6	--	167.2	Sept. 13, 1950	C,W	S	Cased to bottom. Temp. 81°F.
H-59	V. Saenz well D-1	Humble Oil & Refining Co.	1949	5,385	-	--	--	--	--	--	Oil test. 2/
H-60	G. H. Costes well 5	Sun Oil Co.	1941	4,548	-	--	--	--	--	--	do
H-61	Cameron well 1	Farenthold & Pittsairn	1956	3,525	-	--	--	--	--	--	do

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
H-62	Helene W. Lyons, et al. well 1	W. V. Paul	1954	4,943	-	--	--	--	--	--	Oil test. <u>2/</u>
J-1	G. H. Speer	Bob Colbath	1917	275	6	--	134.6	Aug. 14, 1950	C,W	D,S	Cased to bottom. "Speer Ranch" headquarters.
J-2	do	--Murdock	1929	275	5	--	153.0	do	C,W	D,S	Cased to bottom.
J-3	Sun Oil Co.	Layne-Texas Co.	1948	852	8	0	--	--	T,E 20	Ind	Cased to bottom. Sun Oil Gas Plant. Screens: 587-607; 637-652; 677-737; and 794-814 ft. <u>1/</u>
*J-4	do	do	1948	911	8	0	--	--	T,E, 20	Ind	Cased to bottom. Sun Oil Gas Plant. Pumps approximately 150 gpm. <u>1/ 2/</u>
*J-5	Continental Oil Co.	K. & S. Construction Co.	1947	875	10	0	--	--	T,G, 40	D,Ind	Cased to 528 ft. Finished with 5-in. screens and blanks. Gravel-packed. Supplies water for Continental Oil Camp and Gas Plant 20 miles south. <u>1/ 2/</u>
J-6	do	Barrett Well Service	1945	885	10	0	--	--	T,G, 40	D,Ind	Cased to 528 ft. Yield 350 barrels per hour. 500 ft. east of J-5. Total usage from J-5 and J-6, 7,000 barrels a day.
J-7	Jose N. Laurel	Manuel Villareal	Old	133	5	--	105.9	Aug. 19, 1950	C,W	D,S	Driven. Cased to 10 ft.
J-8	Felix Jaurez	A. L. Herschap	1950	311	4	--	--	--	C,W	D,S	Cased to bottom.
J-9	Armanda McKinney	Bob Colbath	1923	175	5	--	79.8	Aug. 7, 1950	C,W	S	Cased to 20 ft.
J-10	H. Barrera Guerra	Gene Liberty	1947	490	6	--	105.9	do	C,W	S	Cased to bottom. "Arkansas City Ranch".
J-11	do	Raphael Pena	1905	165	5	--	--	--	C,W	S	Driven.
J-12	do	Francisco Vela	--	100	5	--	54.3	Aug. 10, 1950	C,W	S	Driven. Not in use.
J-13	do	L. Calderon	1930	200	-	--	--	--	C,W	S	
J-14	do	Baldridge & King	1946	250	5	--	123.7	Aug. 10, 1950	C,W	S	Cased to bottom.
J-15	H. Barrera Guerra	Ed Dean	1947	245	4	--	89.5	do	C,W	S	Dug to 100 ft. in 1903; drilled to 245 ft. in 1947. Cased to bottom.
J-16	S. Pena	Francisco Vela	1928	130	5	--	70.1	Aug. 8, 1950	C,W	D,S	Cased to 10 ft.
J-17	G. Garcia Perez	Raphael Pena	1906	125	5	--	71.2	do	C,W	D,S	
J-18	B. G. de Villareal	Francisco Vela	1930	100	4	--	75.0	do	C,W	N	Driven.
J-19	Mrs. Severa Salinas	L. Guerra	1930	135	4	--	--	--	C,W	D,S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
J-20	G. S. Pena	Francisco Vela	1915	120	4	--	84.6	Aug. 5, 1950	C,W	D,S, Irr	Driven. Cased to 6 ft. Irrigates 70 citrus trees.
J-21	George H. Speer	--	Old	125	5	--	--	--	--	--	Driven.
J-22	V. L. Pena	Francisco Vela	Old	130	6	--	--	--	C,W	S	Driven. Cased to 10 ft.
J-23	Sun Oil Co.	Sun Oil Co.	1939	899	7	0	--	--	--	N	Cased to bottom. Yield: 92 barrels per hour. Screens at 595-632; 691-729; and 793-853 ft. Destroyed. 1/
J-24	do	A. H. Masiron	1939	895	7	0	--	--	--	N	Cased to bottom. Yield: 97 barrels per hour. Screens at 558-601; 688-708; 722-779; and 855-871 ft. Destroyed. 1/
*J-25	do	Sun Oil Co.	1940	902	7	0	--	--	T,E, 15	D,Ind	Cased to bottom. Yield: 107 barrels per hour. Screens at 586-606; 644-652; 696-756; 818-851; and 861-891 ft. Wells J-42, J-43, and J-25 supplies water for Sun Oil Camp - approximately 75 families. 1/
J-26	George H. Speer	do	1938	200	6	--	169.1	Aug. 1, 1950	C,W	D,S	Cased to bottom. Temp. 84°F.
J-27	do	Raphael Pena	1914	270	6	--	177.4	Jan. 10, 1957	C,W	S	Cased to bottom.
J-28	Felix Martinez	Santiago Barrera	1932	380	5	--	158.1	Aug. 1, 1950	C,W	S	do
J-29	Flavio Ramirez	Manuel Villareal	1936	150	6	--	144.6	Aug. 7, 1950	C,W	S	Driven. Cased to 20 ft.
J-30	Melico Perez	--	1928	150	8	--	124.1	do	C,W	S	Driven. Cased to 8 ft.
*J-31	P. H. Longoria	Santiago Barrera	1924	200	5	--	122.9	do	C,W	S	Cased to bottom. Temp. 81°F.
J-32	Dario Guerra	do	1926	352	5	--	108.1	Aug. 9, 1950	C,W	D,S	Cased to bottom.
J-33	do	Pursley & Sons	1949	838	4	0	115.5	Feb. 6, 1958	C,W	N	Cased to bottom. Screens at 773-814; and 819-829 ft. Water sand also at 750-751 ft. Owner plans to irrigate.
*J-34	T. W. Lee	Gene Liberty	1936	220	6	--	134.3	Aug. 7, 1950	N	S	"Va Lee Ranch". Temp. 83°F.
J-35	do	Pursley & Sons	1949	825	10	0	164.5	Aug. 7, 1950	C,W	S	No motor installed. To be used for irrigation. "Va Lee Ranch".
J-36	do	Gene Liberty	1936	750	6	0	170.3	Aug. 11, 1950	T,-	N	Cased to bottom. Irrigates 5 acres of citrus trees. Yield: 550 gpm.
J-37	do	do	1936	750	6	0	--	--	T,E, 14	D	Cased to bottom.
J-38	do	do	1936	750	6	0	--	--	T,G, 70	D,S, Irr	Cased to bottom. Irrigates one acre of lawn. Fills large swimming pool.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*J-39	T. W. Lee	Pursley & Sons	1950	823	10	0	--	--	T, E, 1 1/4	D, S	Cased to bottom. Water level at time of drilling 51 ft. Screens at 703-737; and 760-823 ft. <u>1/</u>
J-40	Mrs. Fannie Heard	--	1936	350	5	--	--	--	C, W	S	Cased to bottom.
*J-41	W. P. Hauser	Arthur Erdmann	1950	434	4	07	--	--	C, W	D, S	
J-42	Sun Oil Co.	Pursley Drilling Co.	1950	818	7	0	221	1956	T, E, 15	D, Ind, Irr	Test hole drilled to 821 ft. Cased to 818 ft. Slotted from 572 to 675; 710 to 730; 740 to 778 and 795 to 810 ft. 6-in. 20 stage pump set at 250 ft. Reported yield 68 gpm. Sun Camp well 4. <u>1/</u> <u>2/</u>
J-43	do	do	1950	808	7	0	200	1956	T, E, 15	D, Ind, Irr	Test hole drilled to 811 ft. Cased to 808 ft. Slotted from 572 to 676; 699 to 719; 729 to 767 and 784 to 799 ft. 4-in. 26 stage pump set at 245 ft. Reported yield 65 gpm. Sun Camp well 5. <u>1/</u>
J-44	do	Sun Oil Co.	--	850	10	0	--	--	T, Ng, 70	D, Ind	Converted oil test. Perforated from 520 to 540, 560 to 580; 615 to 630; 680 to 710; 770 to 780; 795 to 810 and 835 to 850 ft. 7-in. 17 stage pump set at 320 ft. Reported yield 95 gpm. McKinney's well 2.
J-45	Geo. H. Speer	do	--	1,050	10	0	--	--	T, Ng	Irr	Converted oil test. Perforated from 380 to 410; 570 to 600; 610 to 645; 670 to 780 ft. Pump set at 350 ft. Irrigates approximately 100 acres.
*K-1	H. P. Guerra	John Dickens	1930	300	4	--	94.0 99.2	Aug. 31, 1945 Feb. 5, 1958	C, W	S	Cased to bottom. "Anaqua Ranch".
*K-2	do	do	1930	400	4	--	169.5 169.3	Aug. 31, 1945 Feb. 5, 1958	C, W	S	
K-3	J. A. Garza	Graham Bros.	1941	2,010	-	--	--	--	N	N	Oil test. <u>2/</u>
*K-4	H. P. Guerra	Borah Co.	1932	300	10	--	91.3	Sept. 30, 1945	C, W	S	Oil test. Finished as water well to 300 ft.
*K-5	do	Fritz Vollmer	1930	250	5	--	141.5	Dec. 7, 1950	C, W	S	Cased to bottom.
*K-6	Manuel Ramirez	John Dickens	--	200	6	--	40.5 38.6	Sept. 30, 1945 Feb. 5, 1958	C, W	S	Temp. 84°F.
K-7	Nelson Parkhill	Bert Killinger	1956	30	20	A	10.5	Sept. 9, 1957	Cf, Bu	Irr	Cased to bottom. Slotted from 21 to 30 ft.
K-8	do	do	1956	30	20	A	14.7	do	Cf, G	Irr	Cased to bottom. Slotted from 20 to 30 ft.

See footnotes at end of table.

Table 4.--Records of wells in Starr County.--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
K-9	Nelson Parkhill	Bert Killinger	1956	55	16	A	42.1	Sept. 9, 1957	T,E, 30	Irr	Cased to bottom. Slotted from 46 to 55 ft. Reported yield 400 gpm. <u>1/</u>
K-10	do	Arlis Killinger	1957	58	16	A	42.5	do	T,B, 55	Irr	Cased to 54 ft. Slotted from 48 to 54 ft. <u>1/</u>
K-11	J. C. Guerra well A-7	The Texas Co.	1949	1,850	-	--	--	--	--	--	Oil test. <u>2/</u>
*L-1	Pedro B. Ross	--	--	314	6	--	--	--	C,W	D,S	Cased to 180 ft.
L-2	Pedro Guerra	Antonio Saenz	1943	162	4	--	--	--	C,W	D,S	Cased to bottom. "San Jose Ranch".
*L-3	Francisco E. Garcia	do	1944	275	6	--	212.9	Oct. 16, 1950	C,W	D,S	Cased to bottom.
L-4	M. M. Guerrero	L. A. Fears	1949	318	4	--	82.2 82.4	Oct. 17, 1950 Feb. 5, 1958	C,W	S	Cased to bottom. <u>1/</u>
*L-5	Jurvenio Garza	Jurvenio Garza	1936	45	38	--	40.2	Sept. 29, 1945	C,W	D	Dug. Casing: 45 ft. of concrete.
*L-6	Guadalupe Alvarez	Guadalupe Alvarez	1932	35	48	--	34.5	do	C,W	D	Dug. Casing: 35 ft. of concrete. Temp. 81°F.
*L-7	Margarito Bermudez	--	1944	40	42	A?	33.5	do	C,W	D	Dug. Casing: 40 ft. of concrete.
*L-8	A. Perez	John Dickens	1944	100	4	RG?	36.0	do	C,W	D	Cased to bottom.
*L-9	Las Garzas Ranch	do	1943	32	6	RG	24.1	do	C,W	D,S	do
*L-10	Martin Cavazos	do	1945	32	6	--	25.5	Sept. 28, 1945	C,W	D,S	Cased to bottom.
L-11	Raphael Trevino	Raphael Trevino	1940	35	36	--	28.7	do	C,W	D,S	Dug. Casing: 35 ft. of concrete pipe.
L-12	Leo Herrera	Leo Herrera	1949	34	36	--	32.5	July 24, 1950	C,W	D	Dug. Casing: 34 ft. of concrete pipe.
L-13	Juan Galindo	A. L. Herschap	1949	36	4	--	--	--	H	D	Cased to bottom. Yield 250 gpd.
*L-14	Manuel Munoz	L. A. Fears	1949	206	5	--	45.4	Nov. 13, 1950	C,W	S	Cased to bottom. <u>1/</u>
L-15	Anna Kelsey	Zimmerman & Brock	1945	3,196	-	--	--	--	--	--	Oil test. <u>2/</u>
*L-16	E. G. Gonzalez	A. L. Herschap	1956	58	16	RG	26.0	Sept. 10, 1957	T,E, 15	Irr	Cased to bottom. Slotted from 44 to 58 ft. Reported yield 450 gpm. Irrigates 200 acres.
L-17	Manuela Garza	Bill Carney	1956	100	46, 36	A	10.0	Jan. 19, 1956	Cf,E	Irr	Dug. Cased to 40 ft. 14 ft. of 46-in. casing; 26 ft. of 36-in. casing. Irrigates 150 acres. <u>1/</u>
L-18	Elmore & Stahl	Elmore & Stahl	1956	37	60	RG	--	--	Cf,E, 75	Irr	Dug. Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date	Depth (ft.)	Diam-eter of well (in.)	Water-bearing unit	Water level	Date of measurement	Method	Use of water	Remarks
I-19	Suntex Farms	Suntex Farms	1956	36	60	RG	6.5	Nov. 14, 1956	F, E, I	Dug, Cased to bottom. Slotted from 24 to 36 ft. Pump set at 12 ft.	
I-20	Boone Ladrange	Boone Ladrange	1956	36	60	RG	22.9	Sept. 9, 1956	F, E, I	Dug, Cased to bottom. Slotted from 25 to 36 ft.	
I-21	do	do	1957	54	54	RG	22.8	do	F, E, I	Dug, Cased to bottom. Slotted from 44 to 54 ft. Reported yield 1,450 gpm.	
I-22	Quirino Alvarez	Premier Oil & Refining Co.	1944	1,850	--	--	--	--	--	--	Oil test. 2/
I-23	N. Reyna et al, well 1	John J. Pichinson	1955	1,260	--	--	--	--	--	--	do
I-24	Kelsey Bass well 1	GILCREASE OIL CO.	1937	3,265	--	--	--	--	--	--	do
*M-1	Domingo L. Garza	Bob Colbath	1927	284	5	--	145.7	Aug. 22, 1950	C, W	D, S	Cased to 279 ft.
M-2	do	Domingo L. Garza	1907	150	96	--	67.2	do	C, W	S	Dug, Casing: 11 ft. of rock.
M-3	D. L. Garza Estate	--	014	120	84	--	51.6	Sept. 7, 1950	C, W	D, S	Casing: 20 ft. of rock, "Barbacosa Ranch"
M-4	do	--	014	38	96	--	34.3	Aug. 3, 1950	C, W	S	Casing: 20 ft. of wood, "Barbacosa Ranch"
M-5	J. D. Brock	Coastal Oil Co.	--	--	6	--	117.0	do	C, W	S	Oil test.
M-6	W. L. Goldston	John Dickens	1931	300	4	--	107.4	Aug. 2, 1950	C, W	S	
M-7	J. D. Brock	--	--	275	5	--	131.1	do	C, W	S	
M-8	D. G. Wood, Sr.	--	014	58	60	--	26.1	Aug. 3, 1950	H	S	Dug, Casing: 8 ft. of stone, "Sagonada Ranch"
M-9	do	--	014	36	60	--	27.2	do	C, W	D, S	Dug, Casing: 7 ft. of concrete, "Sagonada Ranch"
M-10	Trinidad Rodriguez	KILLINGER Bros.	1926	172	5	--	130.0	July 27, 1950	C, W	D, S	Cased to 8 ft.
*M-11	Santano Guerrero	Antonio Saenz	1946	204	5	--	146.1	July 27, 1950	C, W	S	Cased to bottom. Temp. 83°F.
M-12	Martin Garza	Francisco Loera	1934	280	5	--	60.9	Aug. 2, 1950	C, W	S	Cased to bottom.
M-13	Mary H. Edgerton	Bob Colbath	1916	265	6	--	127.3	do	C, W	S	Cased to 20 ft.
M-14	Trinidad Rodriguez	Antonio Saenz	1945	150	6	--	65.2	July 27, 1950	C, W	S	Cased to bottom.
M-15	George Decker	L. A. Fears	1950	219	6	--	--	--	N	N	Dry hole. 1/
*M-16	Trinidad Rodriguez	Antonio Saenz	1949	182	6	--	77.6	July 27, 1950	C, W	S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of measurement			
M-17	W. L. Goldston	--	1935	--	4	--	119.4	Aug. 2, 1950	C,W	S	
M-18	Domingo L. Garza	Pedro Perez	1905	80	108	--	74.5	Aug. 3, 1950	C,W	S	Dug. Casing: 20 ft. of stone. Reported that well fills to top during heavy rains.
*M-19	Florentino Barrera	L. A. Fears	1950	182	4	--	89.4	Nov. 22, 1950	C,W	S	Cased to bottom. <u>1/</u>
M-20	Maria Ruiz	John Dickens	1945	116	5	--	63.8	Aug. 3, 1950	C,W	S	Cased to bottom.
M-21	Apolonia Molina	do	1938	100	4	--	45.2	do	C,W	S	do
*M-22	Luis Martinez	do	1939	85	6	--	42.8	Oct. 5, 1945	H	D	Cased to 12 ft.
*M-23	Felix Chapa	Antonio Saenz	1943	200	4	--	74.7 64.5	Oct. 5, 1945 Feb. 5, 1958	C,W	D	Cased to bottom.
*M-24	G. E. Dodd	--	1937	80	6	--	55.1	Oct. 5, 1945	C,W	D,S	Cased to bottom.
M-25	Ismael Salinas	L. A. Fears	1949	120	4	--	48.5	Oct. 5, 1950	C,W	D	Cased to 46 ft. <u>1/</u>
M-26	Quirino Vela Estate	--	--	250	6	--	103.1	Aug. 2, 1950	C,W	D,S	Cased to bottom.
M-27	Encarracion Saenz	Antonio Saenz	1940	180	4	--	--	--	C,W	D,S	
M-28	Manuel Manoz	do	1945	182	6	--	42.4	Aug. 3, 1950	C,W	N	Cased to bottom. "Viejo Ranch".
M-29	do	John Dickens	1946	48	6	--	40.9	do	C,W	S	Cased to 47 1/2 ft.
M-30	Ignacio Ramirez	A. L. Herschap	1950	350	4	--	17.0 10.7	Dec. 15, 1950 Feb. 5, 1958	C,W	S	Cased to bottom. Two miles from Rio Grande.
*M-31	Clopton Estate	--	Old	60	6	RG?	41.5	Sept. 16, 1945	C,W	S	"Santo Domingo Ranch".
M-32	Mrs. Mary Edgerton	--	Old	30	36	--	13.6	Sept. 16, 1950	C,W	D	Dug. Casing: 30 ft. of concrete. Well reported to be supplied by seepage water from lake.
M-33	Garciasville School District	Pursley & Sons	1950	734	7	--	--	--	N	N	Reported sulfur water. <u>1/</u>
*M-34	Willie Richmond	Bob Colbath	1923	32	6	RG?	26.3	Sept. 27, 1945	C,W	D	Cased to bottom. "La Casito Ranch".
M-35	Julio Mayorga	Julio Mayorga	1929	30	48	RG?	--	--	C,W	D	Dug. Dry at time of measurement. Water level in well affected by stage of Rio Grande.
M-36	J. D. Brock	Pursley & Sons	1950	2,151	--	--	--	--	N	N	Oil test. <u>1/</u>
M-37	Mrs. Anna Kelsey	J. D. Brock	1946	2,068	--	--	--	--	--	--	Oil test. Altitude 248 ft. <u>2/</u>
*M-38	Valley Brick & Tile Co.	Bob Colbath	1921	54	4	--	--	--	C, G, 1, 2	Ind	Cased to bottom. Supplies brick plant.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
M-39	Jose Penn	John Dickens	1945	40	5	RG7	30.1 22.4	Sept. 27, 1945 Feb. 5, 1958	C,W	D	"Santa Cruz Ranch".
*M-40	-- Backe	--	--	70	4	RG	39.6	Sept. 27, 1945	H	D	Casing: 35 ft. of tile.
*M-41	E. Moore	E. Moore	--	35	48	--	37.3	do	C,W	S	Casing: 12 ft. of brick. Temp. 70°F.
*M-42	C. H. McColrey	C. H. McColrey	1930	32	36	RG7	14.1	Sept. 28, 1945	C,W	D	Oil test. <u>2</u> /
M-43	Frank Deyno	LaBlanca Oil Co.	1947	--	--	--	--	--	--	--	Cased to bottom. Slotted from 33 to 49 ft. Pump set at 47 ft.
M-44	Shuford Bros.	A. L. Herschap	1957	49	16	RG	24	Jan. 1957	T,B	Irr	Cased to bottom. Slotted from 30 to 46 ft. Irrigates 150 acres.
M-45	Izaguerre Estate	do	1956	46	16	RG	15	Oct. 1956	T,B, 50	Irr	Dug. Cased to bottom. Slotted from 48 to 61 ft.
M-46	Ringold Farms	Ringold Farms	1956	61	60	RG	--	--	T,G, 117	Irr	Dug. Cased to bottom. Slotted from 29 to 46 ft.
*M-47	do	do	1957	46	56	RG	18.1	Sept. 10, 1957	T,G	Irr	Dug. Cased to bottom. Slotted from 22 to 34 ft.
M-48	do	do	1957	34	60	RG	13.1	do	--	Irr	Dug. Cased to bottom. Slotted from 34 to 46 ft.
M-49	do	do	1956	46	60	RG	11.9	do	--	Irr	Cased to bottom. Slotted from 45 to 55 ft. Reported yield 1,500 gpm. <u>1</u> /
*M-50	J. H. Guerra	Bert Killinger	1956	55	16	RG	--	--	--	Irr	Cased to bottom. Irrigates 10 acres.
M-51	John Hinojosa	do	1953	60	12	RG	28.7	Sept. 9, 1957	T,E, 10	Irr	Dug. Cased to bottom; open end.
M-52	Tommy Rodman	Tommy Rodman	1957	35	60	RG	--	--	T,E, 30	Irr	Cased to bottom. Slotted from 33 to 53 ft. Irrigates 200 acres. <u>1</u> /
*M-53	Alfredo Rodriguez	A. L. Herschap	1956	54	16	RG	--	--	T,G, 90	Irr	Cased to bottom. Slotted from 41 to 61 ft. Irrigates 200 acres.
M-54	J. M. Morin	do	1956	61	16	RG	22.7	Sept. 10, 1957	T,G, 75	Irr	Dug. Cased to bottom. Slotted from 16 to 24 ft.
M-55	R. D. McCall	Kenneth Johnson	1956	24	54	RG	--	--	Cf,E	Irr	Dug. Cased to bottom.
M-56	Geo. Labar	Geo. Labar	1956	30	54	RG	--	--	--	N	Cased to bottom. Slotted from 66 to 76 ft. Reported water salty. Abandoned.
M-57	A. V. Margo	A. L. Herschap	1956	76	16	RG	--	--	--	N	

See footnotes at end of table.



Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
M-58	Sheerin & Meadors	A & T Drilling Co.	1956	69	30, 16	RG	27.8	Sept. 10, 1957	T, G, 70	Irr	Drilled to 297, cased to 69 ft.; 40 ft. of 30-in. casing, 58 ft. of 16-in. casing. Pump set at 65 ft. <u>2/</u>
M-59	do	Bert Killinger	1957	70	16	RG	--	--	T, G	Irr	Cased to bottom. Slotted from 61 to 70 ft.
M-60	do	do	1957	68	16	RG	--	--	T, G	Irr	Cased to bottom. Slotted from 61 to 68 ft. Pump set at 67 ft.
M-61	Los Puertos Farm	F. M. Reising	1957	60	78, 48	RG	31.1 29.7	July 7, 1957 Sept. 10, 1957	T, G	Irr	Dug. Casing: 50 ft. of 78-in., and 10 ft. of 48-in. Slotted from 50 to 60 ft.
*M-62	La Casita Farms	--	1957	60	26	RG	23.7	Sept. 10, 1957	T, G	Irr	Dug. Cased to bottom. Slotted from 34 to 60 ft. <u>1/</u>
*M-63	do	A. L. Herschap	1956	85	16	RG	--	--	T, B	Irr	Cased to bottom. Slotted from 47 to 85 ft. Pump set at 70 ft.
M-64	do	do	1956	80	14	RG	24.1	Sept. 10, 1957	T, G, 45	Irr	Cased to bottom. Slotted from 60 to 80 ft. Irrigates 50 acres.
M-65	do	--	1957	47	60, 54	RG	22.3	do	T, G	Irr	Dug. Cased to bottom. Slotted from 32 to 47 ft. Pump set at 46 ft.
M-66	Roy Lepovitz	A. L. Herschap	1957	65	12	RG	--	--	T, G	Irr	Cased to bottom. Slotted from 43 to 65 ft. Pump set at 54 ft. <u>1/</u>
M-67	Martha Clopton	do	1957	55	26	RG	32.7	Sept. 10, 1957	T, G	Irr	Cased to bottom. Slotted from 35 to 55 ft. Pump set at 40 ft.
*M-68	do	do	1957	64	20	RG	--	--	T, G	Irr	Cased to 58 ft. Slotted from 28 to 58 ft.
M-69	Glick Bros.	do	1957	48	16	RG	7.1	Sept. 10, 1957	T, G	Irr	Cased to bottom. Slotted from 28 to 48 ft. Pump set at 40 ft.
M-70	Baldrige & Jones	do	1956	47	16	RG	18.9	Mar. 3, 1957	T, G	Irr	Cased to bottom. Slotted from 30 to 47 ft. Pump set at 40 ft.
M-71	do	--	1957	45	12	RG	--	--	Cf, G	Irr	Cased to bottom. Slotted from 33 to 45 ft.
*M-72	do	Lynn Jones	1956	46	12	RG	--	--	T, G	Irr	Cased to bottom. Slotted from 36 to 46 ft.
M-73	Glick Bros.	A. L. Herschap	1957	58	16	RG	20.6	Sept. 10, 1957	T, B	Irr	Cased to bottom. Slotted from 35 to 55 ft. Pump set at 55 ft.
M-74	do	do	1957	68	16	RG	22.4	do	T, G	Irr	Cased to bottom. Slotted from 43 to 68 ft.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of measurement			
M-75	Baldrige & Jones	Bert Killinger	1956	64	16	RG	25.5	Sept. 10, 1957	T, B, 50	Irr	Cased to bottom. Slotted from 49 to 64 ft.
M-76	do	Lynn Jones	1957	47	12	RG	--	--	Cf, B	Irr	Dug. Cased to bottom. Slotted from 32 to 47 ft.
*M-77	Guillermo Martínez	Bert Killinger	1956	70	16	RG	36.8	Sept. 10, 1957	T, B	Irr	Cased to bottom. Slotted from 60 to 70 ft. Reported yield 1,200 gpm.
M-78	Marrs McLean	Breuer-Robinson	4,567	4,567	--	--	--	--	--	--	Oil test. <u>2/</u>
M-79	Green & Manning well 1	J. B. Mitchell	--	7,014	--	--	--	--	--	--	do
M-80	J. H. Clopton well A-1	Kelsey - Bass	--	3,517	--	--	--	--	--	--	do
M-81	D. R. Semmes well 1	D. L. Clark & R. Cox et al	--	2,708	--	--	--	--	--	--	do
M-82	R. C. Roos, Jr. well 1	Patrick H. Downing	--	4,048	--	--	--	--	--	--	do
M-83	R. C. Roos, Jr.	Edwin W. Pauley	--	4,204	--	--	--	--	--	--	do
N-1	Continental Oil Co.	Continental Oil Co.	1950	1,550	6	--	--	--	A	Ind	Cased to 629 ft. Reported too salty for boiler feed.
*N-2	T. W. Lee	--	1935	285	4	--	204.2	Oct. 1, 1945	C, W	S	Cased to 200 ft. Abandoned.
*N-3	J. A. Wetzel	H. C. Stoops	1905	240	4	--	--	--	C, W	S	"El Javalina Ranch".
N-4	T. B. Slick Estate	John Dickens	1936	400	6	--	216.0	Dec. 12, 1950	C, W	S	Cased to bottom.
*N-5	J. A. Wetzel	A & T Drilling Co.	1946	447	6	--	183.3 184.3	July 25, 1950 Feb. 6, 1958	C, W	S	Cased to bottom. <u>1/</u>
N-6	Baldrige & King	Pursley & Sons	1950	999	5	--	--	--	A	Ind	Cased to 990 ft. Water used in steam boilers for drilling rigs. <u>1/</u>
*N-7	T. B. Slick Estate	--	--	220	6	--	163.9	Sept. 29, 1945	C, W	S	Cased to bottom. "El Penal Ranch".
N-8	George Fridmore	Slick-Moorman Co.	1949	900	6	--	--	--	A	S, Ind	Water used in steam boilers for drilling rigs.
*N-9	T. B. Slick Estate	--	--	210	6	--	150.1	July 25, 1950	C, W	S	Cased to bottom.
N-10	La. Briza Land & Cattle Co.	John Dickens	1940	380	6	--	--	--	C, W	S	do
N-11	Lalo Hinojosa	L. A. Fears	1950	328	4	--	87.7	Dec. 13, 1950	N	N	Cased to bottom. <u>1/</u>
N-12	La. Briza Land & Cattle Co.	John Dickens	1935	375	6	--	128.1	Dec. 12, 1950	C, W	S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of measurement			
*N-13	Filomena Flores	John Dickens	1927	217	4	--	181.8	Sept. 6, 1945	C,G, 1 $\frac{1}{2}$	D,S	Cased to 200 ft.
N-14	M. Flores	--	1930	225	6	--	162.1	Sept. 28, 1945	C,W	D,S	Cased to bottom.
*N-15	Juan Ruiz	Antonio Saenz	1940	170	4	--	158.0	do	C,W	D,S	do
*N-16	M. Flores	--	--	200	6	--	142.9	do	C,G, 4 $\frac{1}{2}$	D	Cased to bottom. "El Pinto Ranch".
*N-17	L. Flores	John Dickens	1925	160	6	--	158.7	do	C,W	D,S	Cased to bottom.
*N-18	Juan Flores	--	1916	217	4	--	175.1	Sept. 19, 1945	C,W	D	do
N-19	Sun Oil Co.	Eugene Garner	1944	449	5	--	--	--	A	Irr	Cased to bottom. Yield: 45 gpm. Water used in steam boilers for drilling rigs. Gun perforated at 322-385 and 431-449 ft. <u>1</u>
N-20	do	Camelor Well Service	1944	514	5	--	--	--	A	Irr	Cased to bottom. Yield: 40 bph. <u>1</u>
N-21	Narcisco Solis	John Dickens	1946	55	4	--	48.2	Nov. 22, 1950	C,W	S	Cased to bottom.
*N-22	Sun Oil Co.	Gus Canales	1945	203	4	--	--	--	C,E, 4	D,Irr	Cased to 162 ft. <u>1</u>
*N-23	do	Eugene Garner	1944	200	3	--	--	--	C,E, 4	D,Irr	Cased to 185 $\frac{1}{2}$ ft. Supplies water for Sun Oil Garcia Camp. Water used in drilling rigs. <u>1</u>
*N-24	Manuel Gonzalez	Antonio Saenz	1940	180	6	--	145.4	Sept. 6, 1945	C,W	D	Cased to bottom. Temp. 83°F.
*N-25	Manuel Samano	--	1929	171	4	--	151.5	Sept. 19, 1945	C,G, 4 $\frac{1}{2}$	D	Cased to 160 ft.
*N-26	Juan Salinas	--	1907	208	8	--	115.1	Sept. 6, 1945	C,W	D,S	
*N-27	do	John Dickens	1930	200	6	--	135.6 144.4	Sept. 6, 1945 Feb. 6, 1958	C,W	S	
*N-28	Sun Oil Co.	--	--	250	3	--	144.9	Sept. 6, 1945	C,G, $\frac{1}{4}$	D	Cased to bottom.
*N-29	do	--	--	200	6	--	--	--	A	Ind	Water used only for steam boilers for drilling rigs.
*N-30	Felipe Solis	John Dickens	1928	45	5	--	28.5 43.6 45.3	Sept. 28, 1950 Jan. 12, 1956 Jan. 10, 1957	C,W	D,S	Cased to 10 ft.
N-31	Donaciano Perez	Antonio Saenz	1932	55	4	--	--	--	C,W	D,S	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of measurement			
N-32	Romun Ybarra	John Dickens	1945	53	5, 4	--	46.2	Aug. 29, 1950	C,W	D,S	Casing: 2 ft. of 5-in.; remainder 4-in.
*N-33	Octaviano Cantu	do	1945	50	4	--	--	--	C,W	D,S, Irr	Cased to bottom. Irrigates 2 acres.
N-34	Basilio Solis	--	1905	140	6	--	12.8	Aug. 29, 1950	C,W	D,S	Cased to 20 ft.
N-35	Miguel Guzman	John Dickens	1946	43	4	--	37.9	do	C,W	D,S	Cased to bottom.
N-36	Mrs. Cruz Solis	Antonio Saenz	1933	45	4	--	33.7	do	C,W	D,Irr	Cased to bottom. Irrigates 12 citrus trees.
N-37	Joaquin Guiterrez	do	1942	60	6	--	--	--	C,W	D,Irr	Cased to 47 ft. Supplies water for 3 families. Irrigates 25 citrus trees.
N-38	Leandro Solis	do	1945	44	5	--	32.6	Aug. 29, 1950	C,W	D,S	
N-39	Pedro Solis	John Dickens	1946	45	4	--	25.8	do	C,W	D,S, Irr	Cased to bottom. Irrigates 15 citrus trees.
*N-40	Narcisco Pena	do	1929	56	4	--	41.2	do	C,W	D,S	Cased to bottom.
N-41	Bruno Lozano	Victoriano Lozano	1918	100	9	--	44.1	do	C,W	D,S	do
N-42	Estaban Garcia	Antonio Saenz	1930	180	5	--	78.5	Dec. 12, 1950	C,W	D,S	Cased to bottom.
*N-43	do	--	--	800	4	--	105.2	Sept. 5, 1945	C,W	N	Unfit for any use.
*N-44	Luis Pena	Antonio Saenz	1932	95	4	--	71.0 56.1	Sept. 5, 1945 Feb. 6, 1958	C,W	D	Cased to bottom.
N-45	J. V. Rowley	--	1950	497	--	--	--	--	--	--	Test well for irrigation water. 2/
*N-46	Maximo Diaz	--	--	90	4	--	57.2	Sept. 5, 1945	C,W	S	"Guarache Ranch".
N-47	Juan Flores	--	--	100	4	--	56.5	do	N	N	
N-48	Jose Pena	John Dickens	1925	175	4	--	67.4	do	C,W	S	Cased to bottom.
N-49	S. Garza	do	1946	75	5	--	49.0	Dec. 12, 1950	C,W	D,S	Cased to 40 ft.
N-50	Julio Garza	--	--	141	7	RG?	95.6 94.8	Aug. 28, 1945 Feb. 5, 1958	C,W	S	
N-51	-- Cavazos	--	--	75	4	RG?	--	--	C,W	S	
*N-52	Cristobal Saenz	John Dickens	1945	62	8	RG	28.3	Aug. 25, 1945	C,W	D	Cased to 20 ft.
*N-53	Juan Solis	do	1944	61	6	RG	30.5	do	C,W	D	Cased to 60 ft.
*N-54	Elas Gonzalez	do	1925	60	4	RG	28.3	do	C,W	D	Cased to bottom.

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*N-55	Severa Moreno	John Dickens	1942	74	6	RG	26.5	Aug. 16, 1945	C,W	D	Cased to bottom.
N-56	La Grulla School District	L. A. Fears	1949	70	6	RG	--	--	T,E, 2	P	Cased to bottom. Supplies water for 200 to 300 school children. <u>1/</u>
*N-57	-- Garza	-- Garza	Old	28	36	RG	21.3	Aug. 24, 1950	C,W	D	Dug. Casing: 28 ft. of concrete tile. "Artesitas Ranch".
*N-58	C. W. Butler	Tom Wilkinson	1953	70	12	RG	27.9	Sept. 10, 1957	T,G, 55	Irr	Cased to bottom. Slotted from 60 to 70 ft.
*N-59	do	Bert Killinger	1957	68	16	RG	23.7	do	T,B	Irr	Cased to bottom. Slotted from 56 to 68 ft. <u>1/</u>
*N-60	do	do	1957	68	16	RG	27.3	do	T,B	Irr	Cased to bottom. Slotted from 56 to 68 ft.
N-61	do	do	1957	68	16	RG	--	--	--	N	Cased to bottom. Slotted from 56 to 68 ft. Abandoned.
*N-62	Adan Gonzalez	do	1957	61	16	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 47 to 61 ft. Reported yield 1,000 gpm.
N-63	Amado Vera	do	1957	60	12	RG	--	--	--	N	Cased to bottom. Slotted from 50 to 60 ft. Abandoned.
*N-64	Reynaldo Vera	do	1956	65	12	RG	34.0	Sept. 10, 1957	T,B, 55	Irr	Cased to bottom. Slotted from 56 to 65 ft.
N-65	Hermilio Hinojosa	do	1953	62	12	RG	20	Sept. 1957	T,B, 45	Irr	Cased to bottom. Slotted from 53 to 62 ft.
N-66	A. V. Margo	do	1953	62	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 52 to 62 ft.
N-67	-- Vera	do	1953	65	12	RG	--	--	T,B	Irr	Cased to bottom. Slotted from 56 to 65 ft.
N-68	Mrs. O. H. Davenport well 1	W. U. Paul	--	5,692	--	--	--	--	--	--	Oil test. <u>2/</u>
N-69	A. Orive well 1	Sun Oil Co.	--	4,750	--	--	--	--	--	--	do
N-70	Alvarez well 8	Stardust Oil Co.	--	648	--	--	--	--	--	--	do
N-71	McKim-Alvarez well 3	Cox & Hamon	--	4,750	--	--	--	--	--	--	do
N-72	R. C. Roos, Jr. well 1	Harry L. Martin	--	3,516	--	--	--	--	--	--	do
N-73	Block Realty	Clark Fuel Production & K. D. Owen	--	2,650	--	--	--	--	--	--	do

See footnotes at end of table.

Table 4.--Records of wells in Starr County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land surface datum (ft.)	Date of measurement			
N-74	Yturria Land & Livestock well 1	Clark Fuel Production Co.	--	3,413	--	--	--	--	--	--	Oil test. 2/
N-75	Vera Estate	Blair Ureeland	--	3,212	--	--	--	--	--	--	do

1/ See table 5 for drillers' logs of wells in Starr County, Texas

2/ Electric logs in files of Texas Board of Meter Engineers

\* See table 7 for analyses of water from wells in Starr County, Texas

Table 4.--Records of wells in Willacy County, Texas

All wells are drilled unless otherwise noted in remarks.

Water-bearing unit

: MS, Mercedes-Sebastian shallow ground-water reservoir; G, Goliad sand.

Water levels : Reported water levels given in feet, measured water levels given in feet and tenths.

Method of lift and type of power : A, airlift; B, butane; C, cylinder; Cf, centrifugal; E, electric; G, gasoline; H, hand; J, jet; T, turbine;

W, windmill. Number indicates horsepower.

Use of water : D, domestic; Ind, industrial; Irr, irrigation; N, not used; P, public supply, RR, railroad; S, stock.

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*A-1	C. M. Corbett	-- Geneau	1927	732	6	G	5.6	Aug. 14, 1937	C,W	S	Cased to bottom; open end. Flowed until 1956.
*A-2	do	E. J. Rupp	1953	1,090	4	G	16.1	do	C,W	S	Cased to bottom; open end. Temp. 90°F.
*A-3	do	do	1940	1,050	4	G	25.1	do	C,W	S	Cased to bottom; open end. Temp. 91°F.
A-4	King Ranch	Howard Curry	1927	1,062	$2\frac{1}{4}$	G	4	1933	C,W	S	Cased to bottom. Well 198 in Turner and Cumley (1940).
*A-5	Garcia & Dougherty	E. J. Rupp	1954	860	5	G	7.4	Aug. 12, 1957	C,W	S	Cased to 808 ft. $\frac{1}{2}$
A-6	Earl Thomas	do	--	950	5	G	2.6	Aug. 20, 1957	--	S	Cased to bottom; open end. Water from sand.
*A-7	Bob Allan	Layne-Texas Co.	1953	964	18, 10	G	34.0 15.5	Apr. 16, 1953 Aug. 7, 1957	T,E, 150	Irr	Cased to bottom. Screen from 670 to 690; 730 to 770; and 800 to 950 ft. Pump set at 340 ft. Reported yield 950 gpm. Temp. 89°F. $\frac{1}{2}$ $\frac{2}{2}$
A-8	Gus Garrett	Magnolia Petroleum Co.	1946	935	10	G	26	May 1954	T,NG	Irr	Cased to 1,600 ft. Perforated from 747 to 803 ft. and 890 to 935 ft. Reported total solids 2,449 ppm.
*A-9	Pan American Oil Co.	Pursley Drilling Co.	1950	870	$7\frac{1}{2}$	G	7.6	Oct. 15, 1957	J,E, $1\frac{1}{2}$	D,Ind	Cased to bottom. Slotted from 835 to 870 ft. Water from sand and gravel.
*A-10	Kieke Community Well	E. Kieke	1915	1,025	10, 8	G	8.8	Nov. 7, 1957	J,E, $\frac{1}{2}$	P,S	Cased to bottom; open end. Supplies five families.
*A-11	C. J. Scott	Pursley Drilling Co.	1952	950	$7\frac{1}{2}$ , 6	G	--	--	J,E, $\frac{1}{2}$	D,S	Cased to bottom. Perforated from 856 to 861 ft.; 870 to 890 ft.; and 915 to 944 ft. Gamma Ray log in files of Texas Board of Water Engineers. $\frac{2}{2}$
A-12	G. C. Schoonmaker	--	1952	1,071	10	G	10	May 1954	--	N	Cased to bottom. Once used by city of Raymondville for municipal supply. Reported total solids 2,832 ppm.
A-13	Ia Sara School District	--	--	980	--	G	--	--	--	N	Abandoned. Once used for school supply. Reported total solids 3,935 ppm.
A-14	S. J. Sackett	Pursley Drilling Co.	1956	850	12	G	14.4	Nov. 7, 1957	T,B	Irr	Cased to bottom. Slotted from 810 to 850 ft. Water from sand. Irrigates 40 acres. Reported total solids 3,000 ppm.

See footnotes at end of table.

Table 4.--Records of wells in Willacy County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*A-15	Rudaman Land Co.	--	--	900	4	G	10	1957	J, E, $\frac{1}{2}$	D, S	Cased to bottom. Slotted from 700 to 900 ft. Pump set at 100 ft. Flowed until 1955.
A-16	do	Pursley Drilling Co.	1952	890	16	G	123	May 1954	--	N	Cased to 890 ft. Slotted from 850 to 890 ft. Once used for irrigation. Abandoned. Drilled to 1,712 ft. $\frac{2}{1}$
A-17	C. L. Pollock	H. Curry	1915	870	4	G	15.6	Aug. 5, 1957	--	N	Cased to bottom; open end. Reported water salty.
A-18	H. T. Ramsey	--	--	28+	5	--	11.8	Aug. 3, 1957	C, W	N	Abandoned.
A-19	Myrtle Kendrick et al. well 1	George C. Schoonmaker	1953	9,022	--	--	--	--	--	--	Oil test. $\frac{2}{1}$
A-20	E. F. Robinson well 1	J. S. Abercrombie CO.	1949	8,800	--	--	--	--	--	--	do
B-1	Harl Thomas	--	--	1,380	7	G	+	--	Flows	S	Cased to bottom. Water from sand.
B-2	do	E. J. Rupp	1953	950	4	G	--	--	C, W	S	Cased to bottom. Slotted from 940 to 950 ft.
*B-3	do	--	--	900	5	G	14.0	Aug. 5, 1957	C, W	D, S	Cased to bottom; open end. Farras well.
*B-4	Yuurria Land & Cattle Co.	E. J. Rupp	1954	995	6	G	32.1	Oct. 18, 1957	C, W	S	Cased to bottom; open end. Tojo well. $\frac{1}{1}$
*B-5	do	do	1943	1,115	5	G	7.9	do	C, W	D, S	Cased to bottom; open end. Casa Dorias well.
*B-6	do	do	1944	1,024	5	G	2.4	do	C, W	S	Cased to bottom; open end. Cabeza Blanca well. Temp. 83°F.
*B-7	do	do	1947	1,258	4	G	--	--	C, W	S	Cased to bottom; open end. La Retama well.
*B-8	do	do	1943	1,128	5	G	4.7	Oct. 18, 1957	C, W	S	Cased to bottom; open end. Water from sand. Novias well.
*B-9	do	do	1939	946	7	G	24.4	do	C, W	D, S	Cased to bottom; open end. Main ranch well.
*B-10	W. E. Bakke, Jr.	do	1952	970	5	G	35	1957	J, E, $\frac{1}{2}$	D, S	Cased to bottom; open end. Temp. 88°F.
B-11	do	do	1953	980	5	G	--	--	C, E, $\frac{1}{1}$	D, S	Cased to bottom; open end.
*B-12	do	do	1954	830	5, $\frac{4}{4}$	G	34.2	July 7, 1957	C, W	S	Cased to 808 ft.; open end. Temp. 88 $\frac{1}{2}$ °F. $\frac{1}{1}$
B-13	do	do	1954	840	5	G	--	--	C, W	S	Cased to bottom; open end.

See footnotes at end of table.



Table 4.--Records of wells in Willacy County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
B-14	W. E. Bakke, Jr.	E. J. Rupp	1953	1,100	5	G	34.7	July 7, 1957	C,W,E	S	Cased to bottom. Slotted from 1,000 to 1,100 ft.
*B-15	Conley Cattle Co.	do	--	950	6	G	35.0	Aug. 6, 1957	C,W	S	Cased to bottom. Temp. 83°F.
*B-16	do	do	1953	852	6	G	45.9	Aug. 21, 1957	C,W	S	Cased to bottom. Slotted from 831 to 852 ft. Temp. 84°F. <u>1/</u>
*B-17	do	do	1954	876	7, 6, 4	G	--	--	J,E	D,S	Cased to bottom. Slotted from 830 to 876 ft. Temp. 84°F. <u>1/</u>
*B-18	do	do	1954	855	6, 4	G	--	--	C,W	D,S	Cased to bottom. Slotted from 824 to 844 ft. <u>1/</u>
B-19	-- Face	Holmes Drilling Co.	1953	920	4	G	22	1954	C,W	D,S	Cased to bottom.
*B-20	A. M. Pickard	E. J. Rupp	1950	1,100	5	G	22	1957	J,E, 1/3	D,S	Cased to bottom. Slotted from 1,079 to 1,100 ft.
*B-21	City of Raymondville	Layne-Texas Co.	1953	1,196	14, 8	G	31 16	1953 May 16, 1954	T,E, 75	P	Drilled to 1,196 ft. Cased to 1,054 ft. Screen from 850 to 921 ft., and from 971 to 1,054 ft. Pump set at 350 ft. <u>1/ 2/</u>
B-22	Victor Berg	-- Davis	--	1,260	10	G	--	--	T,B	Irr	Cased to bottom. Slotted from 1,220 to 1,260 ft.
B-23	-- Wertz well 1	H. L. Hunt	1947	11,053	--	--	--	--	--	--	Oil test. <u>2/</u>
B-24	J. C. Ladd well 1	Quintana Petroleum Corp.	1948	9,566	--	--	--	--	--	--	do
C-1	King Ranch	H. L. Curry	1931	1,327	5, 4 3	G	+	--	Flows	S	Cased to bottom. Measured yield in 1933 7½ gpm. Retama well. Well 233 in Turner and Cumley (1940).
C-2	do	Howard Curry	1925	1,000+	--	G	+	--	Flows	S	Measured yield in 1933, 16 gpm. Dos Mesquites well. Well 261 in Turner and Cumley (1940). Temp. 91½°F.
C-3	do	--	--	50	5	--	--	--	C,W	S	Perico well. Well 262 in Turner and Cumley (1940). Temp. 76°F.
C-4	Humble Oil & Refining Co.	Carl Vickers	1954	1,416	8, 4	G	--	--	J,A	Ind	Cased to bottom. Slotted from 1,269 to 1,416 ft. Oil field supply well. <u>1/</u>
C-5	do	W. J. Calaway	1946	1,207	4	G	--	--	J,A	Ind	Drilled to 1,207 ft. Cased to 1,188 ft. Slotted from 1,156 to 1,188 ft. Oil field supply well. <u>1/</u>
*C-6	David V. Mayo	H. Curry	1922	1,340	5	G	+	--	Flows C,W	D,S	Cased to bottom; open end. Temp. 91°F.

See footnotes at end of table.

Table 4.--Records of wells in Willacy County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*C-7	City of San Perlita	Carl Vickers	--	1,432	8	G	+	--	Flows T,E	P	Drilled to 1,432 ft. Cased to 1,429 ft. Screen from 1,402 to 1,429 ft. $\frac{1}{2}$
*C-8	San Perlita Water Co-op	H. Curry	1944	1,350	6	G	+	--	Flows T,E, $\frac{3}{4}$	P,S	Cased to bottom. Slotted from 1,308 to 1,350 ft. Reported flow 10 gpm. Supplies six families. Temp. 92°F.
*C-9	F. A. Shewmaker	F. A. Shewmaker	1949	15	36	--	8.8	Aug. 13, 1933	J,E, $\frac{1}{2}$	D,S	Dug. Cased to bottom.
*C-10	Humble Oil & Refining Co.	H. L. Curry	1945	1,379	8, 6, 4	G	+	--	Flows	D,S	Cased to bottom. Slotted from 1,357 to 1,379 ft.
C-11	do	Carl Vickers	1946	1,321	4	G	--	--	J,A	Ind	Cased to bottom. Slotted from 1,282 to 1,320 ft. Oil field supply well. $\frac{1}{2}$
C-12	Don Stone	Howard Curry	1949	1,140	4	G	+	--	Flows J,E	S	Cased to bottom. Slotted from 1,119 to 1,140 ft.
*C-13	Busch Bros.	do	1945	1,140	5	G	+	--	Flows J,E, $\frac{1}{3}$	D,S	Cased to bottom. Supplies five families.
*C-14	Don Stone	do	1947	1,147	5	G	3.2	Aug. 20, 1957	J,E, $\frac{1}{2}$	D,S	Cased to bottom. Slotted from 1,126 to 1,147 ft. Supplies about 50 laborers.
*C-15	do	do	1949	1,140	5	G	+	--	Flows T,E,3	P,S, Ind	Cased to bottom. Supplies several families, school and gin.
*C-16	A. J. Schubert	E. J. Rupp	1955	1,138	10, 7	G	+	--	Flows T,B, 54	Irr	Cased to bottom. Slotted from 1,107 to 1,138 ft. Estimated flow 1 gpm, reported pumps 200 gpm. Temp. 87°F. $\frac{1}{2}$
C-17	do	do	1946	1,151	4	G	.3	Aug. 21, 1957	--	S	Cased to bottom. Slotted from 1,131 to 1,151 ft. $\frac{1}{2}$
C-18	Humble Oil & Refining Co.	A. H. Masiran	1943	1,505	7	G	--	--	--	N	Drilled to 1,505 ft. Cased to 1,420 ft. Perforated from 1,207 to 1,211 ft.; 1,336 to 1,340 ft.; and from 1,380 to 1,420 ft. Oil field supply well. Abandoned. $\frac{1}{2}$
C-19	Sauz Ranch Tenerias well 4	Humble Oil & Refining Co.	1948	8,600	--	--	--	--	--	--	Oil test. $\frac{2}{2}$
C-20	Sauz Ranch Nopal well 4	do	1952	9,500	--	--	--	--	--	--	do
C-21	Sauz Ranch Mulatos Pasture well 119	do	1950	7,990	--	--	--	--	--	--	do

See footnotes at end of table.

Table 4.--Records of wells in Willacy County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
D-1	King Ranch	Howard Curry	1930	--	--	G	+	--	Flows	S	Measured yield 30 gpm. Dave Deer well. Well 263 in Turner and Cumley (1940). Temp. 90°F.
*D-2	Port Mansfield Authority	Layne-Texas Co.	1955	1,580	16, 9, 5	G	+	--	Flows T,E	Ind	Drilled and cased to 1,580 ft. Screen from 1,539 to 1,570 ft. Pump set at 262 ft. Measured yield 197 gpm. Temp. 94°F. 1/ 2/
D-3	Sauz Ranch Tenerias well 3	Humble Oil & Refining Co.	1953	8,999	--	--	--	--	--	--	Oil test. 2/
D-4	Sauz Ranch Tenerias well 2	do	1947	9,948	--	--	--	--	--	--	do
E-1	City of Lyford	--	1939	1,100	4, 2	--	--	--	T,E, 5	N	
*E-2	do	Layne-Texas Co.	1908	1,935	10, 8	G	--	--	T,E	P	Water from sand 1,200 to 1,935 ft. Flowed when drilled. Temp. 92°F.
E-3	-- Moseson	--	1912	1,200	8	--	11	1954	--	N	Once used for irrigation.
*E-4	E. Lagerstrum, Jr.	E. Lagerstrum, Jr.	1956	22	2	MS	10	1957	J,E, 1/2	D,S, Irr	Irrigates approximately 1/2 acre. Five sand point wells.
E-5	-- Nance	--	1908	45	4	MS	18, 18	1908, 1953	J,E	D,S	Cased to bottom; open end.
*E-6	C. R. Anderson	--	1951	20	2	MS	12	1957	J,E, 1/4	D,S	Sandpoint well.
E-7	do	Puraley Drilling Co.	1953	360	8	--	10.2	Oct. 25, 1957	--	N	Cased to bottom. Screen from 270 to 360 ft. Once used for irrigation. Abandoned.
E-8	P. Nyquist	--	1952	30?	2	MS	--	--	Cl,G	Irr	Sandpoint wells.
*E-9	John Williams	John Williams	1951	28	2	MS	14	1957	Cl,G	Irr	Irrigates 40 acres. Eleven sandpoint wells.
E-10	J. A. King Estate	--	1952	52?	2	MS	--	--	Cl,G	Irr	Irrigates approximately 10 acres. Sand-point wells.
*E-11	Elias Allan	Crawford Slayton	1953	129	4, 2	MS	12	1957	J,E, 3/4	D,S	Cased to bottom. Slotted from 108 to 129 ft.
*E-12	Lyford Independent School District	--	1950	30	2	MS	--	--	J,E, 3/4	P	Two sandpoint wells at Sebastian School.
*E-13	M. S. Oakes	M. S. Oakes	1956	29	2	MS	--	--	J,E	D,S	Sandpoint well.

See footnotes at end of table.

Table 4.--Records of wells in Willacy County--Continued

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
*E-14	-- Richardson	--	--	30	2	MS	--	--	C,W	S	Sandpoint well.
*E-15	R. L. Williams	R. L. Williams	1956	15	1	MS	--	--	J,E	S	do
*E-16	do	do	1957	17	1	MS	8	1957	J,E, 2	D,S	do
E-17	Community owned	--	--	30	2	MS	--	--	J,E	D,S	do
*E-18	Lee Jacobs	Lee Jacobs	1957	18	2	MS	10	1957	J,E	D,S	do
*E-19	do	do	1957	17	2	MS	--	--	C,E	D,S	do
*E-20	Los Coyotes Gin	E. J. Rupp	1947	1,355	6, 4	G	--	--	J,E	Ind	Cased to bottom; open end. <u>1/</u>
F-1	R. G. Smith	do	--	1,171	4	G	--	--	J,E	S	Drilled to 1,171 ft. Cased to 1,110 ft. Slotted from 1,100 to 1,110 ft. <u>1/</u>
*F-2	T. G. Garcia	--	1890	18	72	--	3.6	Aug. 12, 1957	J,E	D,S	Three dug wells. Cased to bottom.
F-3	Pan-American Oil Co.	Standard Oil Co.	1942	400	4	--	--	--	J,Ng	D,S, Ind	Cased to bottom.
F-4	J. D. Campbell	--	1950	18	--	--	6.0	Oct. 28, 1957	C,W	N	Dug.
*F-5	do	--	1950	15	--	--	8.0	do	C,W	D,S	do
F-6	Sauz Ranch Nopal well 7	Humble Oil & Refining Co.	1953	8,210	--	--	--	--	--	--	Oil test. <u>2/</u>
F-7	W. B. Kipp well 1	Crown Central Petroleum Corp.	1952	8,503	--	--	--	--	--	--	do
P-8	Livingston well 1	Phillips Petroleum Corp.	1945	8,404	--	--	--	--	--	--	do
G-1	Sauz Ranch Nopal well 6	Humble Oil & Refining Co.	1953	9,995	--	--	--	--	--	--	do

1/ See table 5 for drillers' logs of wells in Willacy County, Texas.

2/ Electric logs in files of Texas Board of Water Engineers.

\* See table 7 for analyses of water from wells in Willacy County, Texas.

Table 4.--Records of wells in Kenedy County, Texas

All wells are drilled unless otherwise noted in remarks.

Water-bearing unit : G, Gollid sand

Water levels : Reported

Method of lift and type of power : C, cylinder; J, jet; Ng, natural gas; W, windmill.

Use of water : D, domestic; Ind, industrial; S, stock.

Well	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Water-bearing unit	Water level		Method of lift	Use of water	Remarks
							Below land-surface datum (ft.)	Date of measurement			
196	King Ranch	Howard Curry	1922	--	--	G	+	--	Flows	S	Measured yield 9 gpm. Field test: Chloride 700; hardness 80; sulfate 100. Temp. 87½°F.
197	do	--	--	--	4	--	--	--	C,W	S	Field test: Chloride 600; hardness 80; sulfate 200.
232	do	Howard Curry	1922	--	--	G	+	--	Flows	S	Measured yield 13 gpm. Field test: Chloride 440; hardness 390; sulfate 400. Temp. 89½°F.
234	do	--	--	60+	6	--	30	1933	C,W	S	Field test: Chloride 1,700; hardness 2,400; sulfate 100.
235	do	W. P. Gano	--	1,320	--	G	+	--	Flows	D,S	Measured yield 10 gpm. Field test: Chloride 490; hardness 470; sulfate 400. Temp. 90°F.
256	do	--	--	53	5	--	25	1933	C,W	S	Field test: Chloride 1,000; hardness 1,000; sulfate 300. Temp. 76°F.
257	do	--	--	40	5	--	30	1933	C,W	S	Field test: Chloride 1,400; hardness 1,000; sulfate 250. Temp. 77°F.
258	do	Henry Curry	1920	1,381	6, 4, 3	G	+	--	Flows	S	Measured yield 6 gpm. Field test: Chloride 550; hardness 1,400; sulfate 1,000. Temp. 88½°F.
259	do	Howard Curry	1925	--	--	G	+	--	Flows	S	Measured yield 27 gpm. Field test: Chloride 650; hardness 1,300; sulfate 600. Temp. 90°F.
260	do	do	1930	--	--	G	+	--	Flows	S	Measured yield 20 gpm. Field test: Chloride 500; hardness 480; sulfate 600. Temp. 91°F.
264	Harl Thomas	E. J. Rupp	1954	830	6, 4	G	--	--	C,W	S	Cased to bottom. Slotted from 800 to 830 ft. 1/
265	Humble Oil & Refining Co.	Carl Vickers	1948	1,420	4	G	--	--	J,Ng	Ind	Drilled to 1,420 ft. Cased to 1,386 ft. Slotted from 1,340 to 1,386 ft. Oil field supply well. 1/

1/ See table 5 for drillers' logs of wells in Kenedy County, Texas.

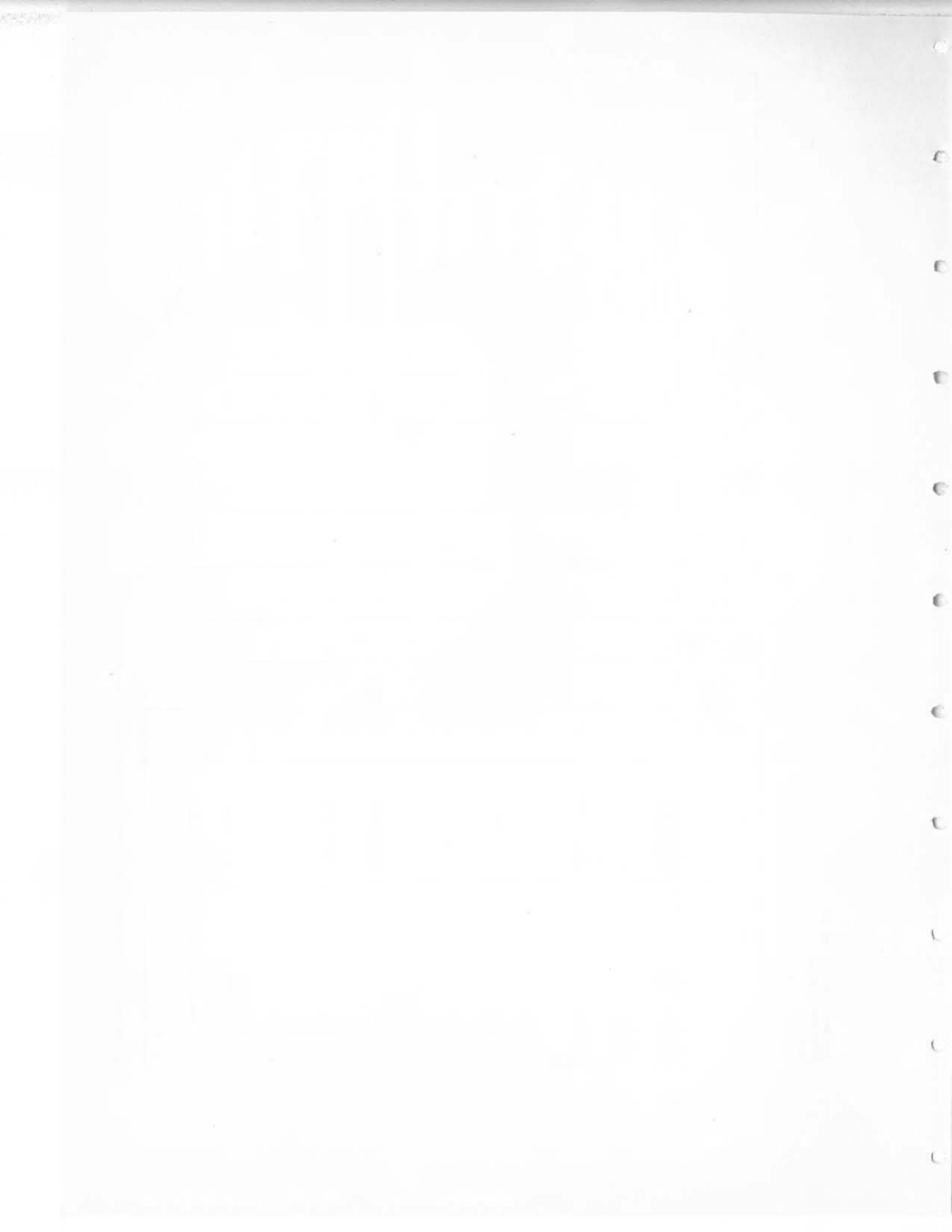


TABLE 5

DRILLERS' LOGS OF WELLS  
IN THE  
LOWER RIO GRANDE VALLEY AREA  
AND  
SELECTED WELLS IN KENEDY COUNTY

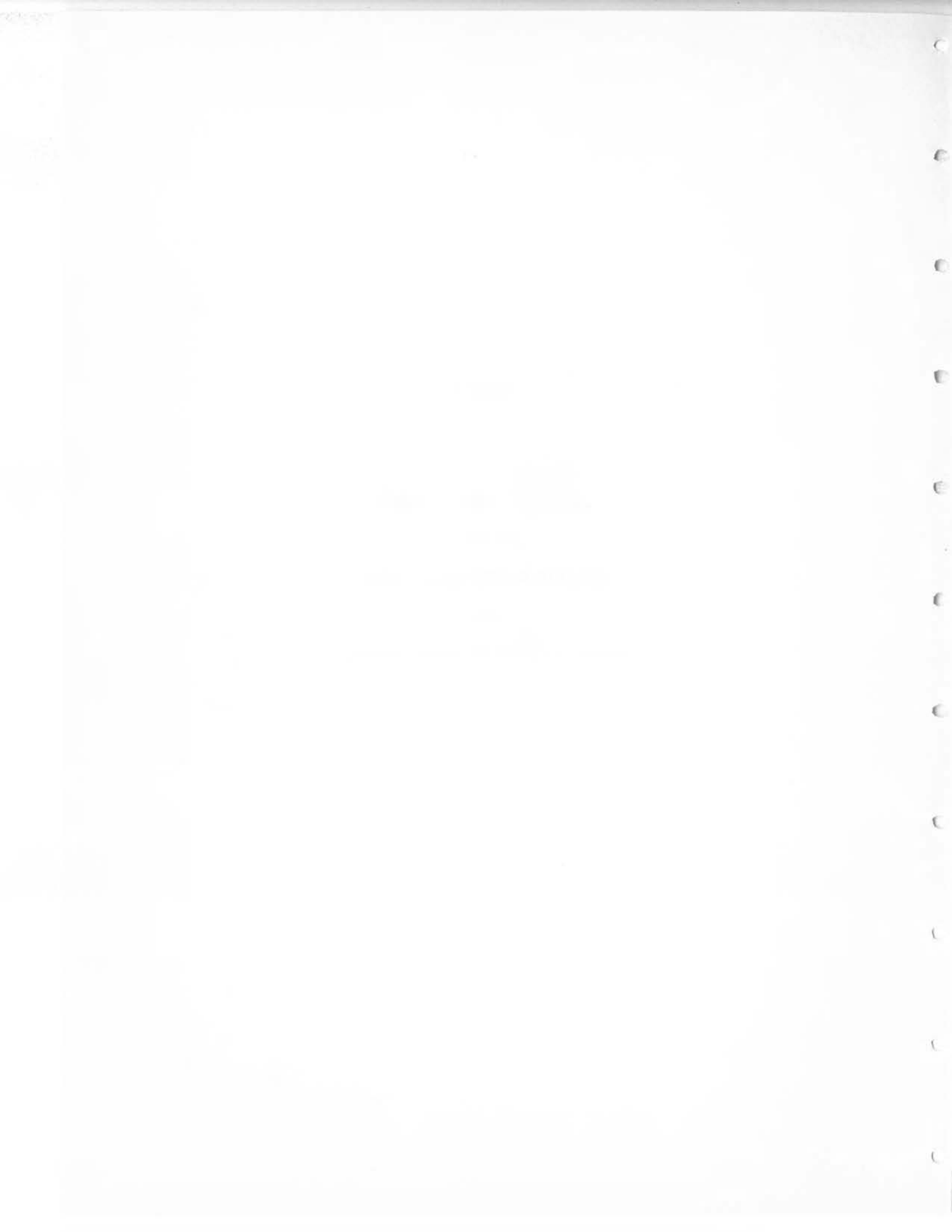




Table 5.--Drillers' logs of wells in Cameron County, Texas

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well A-1

Owner: W. A. Stohl. Driller: Ted Pursley.

Surface soil-----	3	3	Sand-----	81	180
Caliche, shaly-----	12	15	Shale, streaky-----	104	284
Sand-----	29	44	Sand-----	82	366
Shale, streaky-----	42	86	Shale-----	1	367
Shale, sandy-----	13	99			

Well A-3

Owner: W. A. Stohl. Driller: Ted Pursley.

Surface soil-----	3	3	Sand-----	84	182
Caliche, shaly-----	11	14	Shale, sticky-----	88	270
Sand-----	32	46	Sand-----	84	354
Shale, sticky-----	39	85	Shale-----	7	361
Shale, sandy-----	13	98			

Well A-12

Owner: M. W. Nelson. Driller: Ted Pursley.

Surface soil-----	3	3	Shale-----	19	93
Caliche-----	12	15	Sand and shale-----	147	240
Sand-----	29	44	Shale, streaky-----	31	271
Shale-----	18	62	Sand-----	92	363
Sand-----	12	74	Shale-----	3	366

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well A-14

Owner: Chester Johnson. Driller: Ted Pursley.

Surface soil-----	3	3	Sand and shale, sandy-----	163	239
Caliche-----	14	17	Shale, streaky-----	32	271
Sand-----	17	34	Sand-----	92	363
Shale, streaky-----	42	76	Shale-----	2	365

Well A-16

Owner: M. A. Giese. Driller: Pursley & Son.

Surface soil-----	3	3	Sand with shale breaks-----	121	199
Caliche, shaly-----	13	16	Shale-----	48	247
Sand-----	31	47	Sand-----	113	360
Shale-----	31	78	Shale, streaky-----	2	362

Well A-31

Owner: -- Driller: Layne-Texas Co.

Top soil-----	3	3	Sand-----	47	111
Clay-----	9	12	Sand and clay streaks-----	8	119
Sand-----	25	37	Sand-----	15	134
Clay-----	10	47	Clay-----	34	168
Sand-----	8	55	Sand-----	70	238
Clay-----	9	64	Gravel-----	3	241

Well A-40

Owner: Jack Fett. Driller: Pursley & Son.

Shale-----	12	12	Quicksand-----	181	193
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(Continued on next page)

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well A-40--Continued					
Shale-----	13	206	Shale-----	22	420
Sand-----	60	266	Sand-----	50	470
Shale-----	56	322	Shale-----	37	507
Sand-----	10	332	Sand-----	45	552
Shale-----	31	363	Shale-----	6	558
Sand-----	35	398			

Well B-12, partial log

Owner: Armendiaz Estate. Driller: Magnolia Petroleum Co.

Surface clay and sand-----	45	45	Sand, hard-----	68	1,425
Sand and boulders-----	116	161	Shale and sand streaks-----	119	1,544
Sand-----	70	231	Sand, hard-----	91	1,635
Sand and caliche-----	106	337	Shale and sand streaks-----	137	1,772
Sand and shale streaks-----	514	851	Sand, hard, and sandstone--	70	1,842
Shale, sandy and streaks of sandstone-----	103	954	Sandstone, hard-----	75	1,917
Sandstone, and sandy shale streaks-----	64	1,018	Sand, hard, and shale streaks-----	83	2,000
Rock, sandy, hard-----	74	1,092	Sand and sandy shale-----	217	2,217
Shale and hard sand streaks-----	128	1,220	Sand, hard-----	273	2,490
Sand, hard, and shale streaks-----	137	1,357	Total depth-----		9,620

Well C-1

Owner: Phillip Wardner Estate. Driller: The Texas Co.

Surface clay and sand-----	200	200	Gravel, sandy and shale----	625	825
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(Continued on next page)

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well C-1--Continued					
Shale and sand-----	539	1,364	Shale, sand streaks-----	183	1,872
Shale, sandy and shells----	325	1,689	Shale and sand-----	288	2,160

Well E-7

Owner: Will McCorkele. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	39	125
Clay-----	4	10	Clay and sand streaks-----	25	150
Sand-----	30	40	Sand-----	67	217
Clay-----	46	86	Gravel-----	26	243

Well E-20

Owner: Adams Gardens Food Products Co. Driller: J. B. Taylor.

Surface-----	20	20	Clay, sandy-----	15	216
Clay-----	35	55	Sand-----	7	223
Gravel-----	20	75	Clay, tough-----	37	260
Clay and caliche-----	39	114	Sand-----	6	266
Sand-----	16	130	Shale-----	19	285
Clay-----	4	134	Sand-----	18	303
Sand-----	9	143	Shale, tough-----	2	305
Clay, sandy-----	5	148	Sand-----	8	313
Sand-----	8	156	Clay-----	3	316
Sand and gravel-----	27	183	Sand-----	45	361
Clay, tough-----	12	195	Shale-----	12	373
Sand-----	6	201	Shale, sandy-----	2	375

(Continued on next page)

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-20--Continued					
Sand and gravel-----	43	418	Sand, hard, and gravel-----	18	505
Shale-----	3	421	Shale-----	6	511
Sand-----	4	425	Shale, sandy-----	10	521
Shale-----	2	427	Shale, sticky-----	17	538
Sand-----	43	470	Sand, hard-----	25	563
Shale-----	5	475	Shale, sticky-----	2	565
Sand-----	12	487			

Well E-25

Owner: City of La Feria. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	63	218
Sand-----	34	40	Sand and gravel-----	22	240
Clay-----	38	78	Clay-----	2	242
Sand and clay-----	77	155			

Well E-26

Owner: Rabb Tract. Driller: Layne-Texas Co.

Topsoil-----	4	4	Packsand-----	16	66
Sand, muddy-----	12	16	Clay-----	11	77
Clay-----	2	18	Packsand-----	153	230
Sand-----	26	44	Gravel-----	2	232
Clay-----	6	50			

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well E-28

Owner: Paul Davies. Driller: Waldrop and Hamilton.

Sand-----	26	26	Sand, coarse-----	8	73
Clay-----	2	28	Clay-----	145	218
Sand, yellow-----	4	32	Gravel-----	28	246
Clay-----	33	65			

Well E-32

Owner: B. H. Dunlap. Driller: A & T Drilling Co.

Clay-----	30	30	Sand-----	20	115
Sand-----	15	45	Clay-----	30	145
Clay-----	15	60	Sand-----	41	186
Sand-----	26	86	Clay-----	26	212
Clay-----	9	95	Sand and gravel-----	17	229

Well E-34

Owner: Martin Palmer. Driller: A & T Drilling Co.

Surface soil-----	6	6	Gravel-----	5	160
Sand-----	48	54	Clay-----	16	176
Clay and streaks of sand---	56	110	Sand-----	20	196
Sand-----	45	155	Gravel-----	18	214

Well E-38

Owner: Bob Hall. Driller: A & T Drilling Co.

Surface soil-----	12	12	Sand-----	40	65
Clay-----	13	25	Clay and sand streaks-----	60	125

(Continued on next page)

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well E-38--Continued

Sand-----	28	153	Sand-----	23	208
Clay-----	32	185	Gravel-----	17	225

Well E-39

Owner: Bob Hall. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	34	142
Sand-----	42	48	Gravel-----	13	155
Clay and sand streaks-----	60	108			

Well E-40

Owner: Sid Berly. Driller: A & T Drilling Co.

Surface soil-----	27	27	Sand-----	3	218
Sand-----	25	52	Sand and gravel-----	10	228
Clay-----	163	215			

Well E-43

Owner: H. C. Lewis. Driller: A & T Drilling Co.

Surface soil-----	15	15	Clay-----	16	113
Sand-----	57	72	Sand-----	35	148
Clay-----	17	89	Gravel, coarse-----	17	165
Sand-----	8	97	Clay-----	3	168

Well E-45

Owner: Ed Wolfe. Driller: A & T Drilling Co.

Surface soil-----	10	10	Sand-----	38	48
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Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-45--Continued					
Clay-----	28	76	Sand-----	25	143
Sand-----	21	97	Gravel-----	26	169
Clay-----	21	118			

Well E-46

Owner: Felix Till. Driller: A & T Drilling Co.

Surface soil-----	7	7	Sand-----	45	105
Sand-----	28	35	Clay-----	17	122
Clay-----	25	60	Gravel, coarse-----	33	155

Well E-47

Owner: Richard Rowland. Driller: A & T Drilling Co.

Surface soil-----	10	10	Sand-----	41	151
Sand-----	32	42	Gravel-----	24	175
Clay, broken streaks-----	68	110			

Well E-49

Owner: H. C. Lewis. Driller: A & T Drilling Co.

Surface soil-----	15	15	Sand-----	25	138
Sand-----	38	53	Sand and gravel-----	19	157
Clay-----	10	63	Clay and sand streaks-----	26	183
Sand-----	15	78	Sand-----	15	198
Clay-----	7	85	Gravel and sand-----	42	240
Sand-----	18	103	Clay-----	2	242
Clay-----	10	113			



Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well E-50

Owner: L. L. Lawson. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	10	135
Clay-----	39	45	Clay-----	5	140
Sand-----	30	75	Sand-----	5	145
Clay-----	5	80	Gravel, coarse-----	33	178
Sand-----	10	90	Sand-----	22	200
Clay-----	35	125	Gravel-----	22	222

Well E-51

Owner: City of Harlingen. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand and clay streaks-----	40	110
Clay and sand streaks-----	30	36	Clay-----	14	124
Clay-----	28	64	Sand-----	22	146
Sand-----	6	70	Gravel-----	24	170

Well E-52

Owner: C. L. Kaiegler. Driller: A & T Drilling Co.

Surface soil-----	12	12	Sand-----	15	115
Sand-----	16	28	Clay-----	5	120
Clay-----	32	60	Sand-----	20	140
Sand-----	15	75	Clay-----	5	145
Clay-----	25	100	Gravel-----	20	165

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well E-54

Owner: Dave Morgan. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	40	100
Clay-----	24	30	Clay-----	30	130
Sand-----	10	40	Sand-----	10	140
Clay-----	20	60	Gravel-----	32	172

Well E-56

Owner: Bob Hall. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	18	108
Clay-----	22	28	Clay-----	12	120
Sand-----	32	60	Sand-----	24	144
Clay-----	30	90	Gravel-----	16	160

Well E-58

Owner: H. C. Lewis. Driller: A & T Drilling Co.

Surface soil-----	15	15	Sand-----	63	148
Sand-----	54	69	Sand and gravel-----	13	161
Sand and clay streaks-----	16	85	Clay-----	3	164

Well E-65

Owner: Cardell Gunn. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	21	155
Clay-----	24	30	Gravel-----	10	165
Sand-----	28	58	Clay-----	2	167
Clay and sand streaks-----	76	134			

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well E-68

Owner: City of Harlingen. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	27	120
Sand-----	29	35	Clay and sand streaks-----	18	138
Clay and sand streaks-----	28	63	Sand and clay streaks-----	21	159
Sand and clay streaks-----	12	75	Gravel-----	8	167
Sand-----	18	93	Clay-----	1	168

Well E-69

Owner: City of Harlingen. Driller: A & T Drilling Co.

Surface soil-----	6	6	Gravel-----	8	166
Clay-----	21	27	Clay-----	9	175
Sand-----	58	85	Sand-----	19	194
Clay-----	10	95	Clay-----	16	210
Sand-----	40	135	Sand-----	4	214
Sand and gravel-----	23	158	Clay-----	11	225

Well E-70

Owner: City of Harlingen. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand, hard-----	40	130
Clay-----	22	28	Sand-----	20	150
Sand and clay-----	42	70	Gravel-----	14	164
Sand-----	20	90	No record-----	4	168

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well E-73

Owner: City of Harlingen. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	18	118
Clay-----	4	10	Sand-----	20	138
Sand-----	22	32	Clay-----	5	143
Clay-----	35	67	Sand-----	5	148
Sand-----	21	88	Gravel-----	21	169
Sand and gravel-----	12	100			

Well E-75

Owner: L. M. Vigness. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	64	194
Clay-----	6	12	Sand and gravel, fine-----	47	241
Sand and clay streaks-----	46	58	Gravel-----	7	248
Clay-----	29	87	Clay-----	2	250
Sand, hard-----	43	130			

Well F-22

Owner: G. B. Smith. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	42	170
Sand-----	24	30	Sand-----	10	180
Clay-----	10	40	Clay-----	35	215
Sand-----	54	94	Sand-----	15	230
Sand with clay streaks-----	34	128	Gravel-----	23	253

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well F-30

Owner: W. J. Woolem. Driller: Virdell Drilling Co.

Clay, yellow-----	88	88	Clay-----	15	290
Sand, fine-grained, brown--	26	114	Sand and gravel-----	19	309
Clay, caliche, white-----	44	158	Clay-----	41	350
Sand and gravel-----	56	214	Sand-----	35	385
Clay and sand-----	46	260	Clay-----	14	399
Sand with small gravel-----	15	275			

Well F-38

Owner: M. H. Scaief. Driller: Tom Wilkinson.

Surface soil-----	10	10	Sand-----	40	89
Clay, with sand streaks----	20	30	Clay, sandy-----	48	137
Clay-----	19	49	Gravel-----	61	198

Well F-44

Owner: D. H. Palmer. Driller: Virdell Drilling Co.

Sand with streaks of clay--	26	26	Sand, black, fine-grained--	15	95
Sand-----	8	34	Clay, blue-----	10	105
Clay, yellow-----	8	42	Sand-----	5	110
Sand, black, fine-grained--	16	58	Clay, blue-----	5	115
Clay with streaks of sand--	22	80	Gravel-----	51	166

Well F-45

Owner: V. E. Morrow. Driller: A & T Drilling Co.

Clay-----	35	35	Sand-----	35	70
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Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-45--Continued					
Clay-----	50	120	Clay-----	30	205
Sand-----	15	135	Sand-----	41	246
Clay-----	19	154	Sand and gravel-----	16	262
Sand-----	21	175			

Well F-50

Owner: B. F. Morrow. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	20	120
Sand-----	19	25	Clay-----	4	124
Clay-----	35	60	Sand and gravel-----	39	163
Sand with clay streaks-----	40	100			

Well F-54

Owner: T. Oyama. Driller: Tom Wilkinson.

Surface soil-----	6	6	Sand-----	112	171
Clay-----	32	38	Gravel-----	22	193
Sand-----	8	46	Clay-----	7	200
Clay, sandy-----	13	59			

Well F-55

Owner: Ray McDonald. Driller: Tom Wilkinson.

Surface clay-----	18	18	Clay-----	19	138
Sand-----	38	56	Sand-----	10	148
Clay-----	33	89	Gravel-----	57	205
Sand-----	30	119	Clay-----	7	212

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well F-57

Owner: G. W. McCain. Driller: Tom Wilkinson.

Surface soil-----	15	15	Sand-----	10	120
Sand-----	40	55	Gravel-----	60	180
Clay-----	55	110			

Well F-61

Owner: G. W. McCain. Driller: Tom Wilkinson.

Surface soil-----	15	15	Gravel-----	15	151
Sand-----	14	29	Clay-----	87	238
Clay-----	10	39	Clay, sandy-----	6	244
Sand-----	13	52	Sand, with shale streaks---	30	274
Clay-----	28	80	Clay-----	16	290
Sand-----	11	91	Sand-----	15	305
Clay-----	7	98	Clay-----	15	320
Sand-----	25	123	Gravel, fine, with sand----	65	385
Clay-----	13	136	Clay, hard-----	1	386

Well F-68

Owner: T. Kawamara. Driller: Tom Wilkinson.

Surface soil-----	10	10	Sand-----	13	134
Sand-----	19	29	Gravel, sandy, and clay----	16	150
Clay-----	17	46	Clay-----	3	153
Sand-----	59	105	Sand-----	28	181
Clay-----	16	121	Clay-----	15	196

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Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well F-68--Continued

Sand-----	15	211	Sand with some gravel-----	69	287
Clay-----	7	218	Gravel-----	59	346

Well F-71

Owner: L. M. Mikklesen. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	42	164
Sand, with clay streaks----	116	122	Gravel-----	16	180

Well F-72

Owner: Brown and Slaughter. Driller: Tom Wilkinson.

Clay, sandy-----	29	29	Sand-----	8	120
Sand-----	39	68	Sand and gravel-----	22	142
Sand and clay-----	21	89	Gravel-----	38	180
Clay-----	23	112	Clay-----	4	184

Well F-74

Owner: S. Oyama. Driller: Tom Wilkinson.

Surface soil-----	10	10	Sand-----	30	120
Sand-----	39	49	Clay, sandy-----	31	151
Clay-----	11	60	Gravel-----	53	204
Sand-----	21	81	Clay-----	2	206
Clay-----	9	90			



Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well F-75

Owner: T. Date. Driller: Tom Wilkinson.

Surface clay-----	8	8	Sand-----	22	137
Sand-----	56	64	Clay-----	3	140
Clay-----	51	115	Gravel-----	60	200

Well F-76

Owner: Kenneth Shimetsu. Driller: Tom Wilkinson.

Surface soil-----	15	15	Clay-----	103	151
Sand-----	33	48	Gravel-----	57	208

Well F-78

Owner: Louis Stanley. Driller: Henry Cleveland.

Clay-----	24	24	Shale, clay-----	70	160
Sand, broken-----	16	40	Gravel-----	12	172
Shale-----	45	85	Shale-----	2	174
Sand-----	5	90			

Well F-80

Owner: George Oyama. Driller: Tom Wilkinson.

Surface soil-----	15	15	Sand and clay-----	31	151
Sand-----	21	36	Clay-----	15	166
Clay-----	53	89	Gravel-----	31	197
Sand with clay streaks-----	31	120	Clay-----	4	201

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well F-81

Owner: Herman Johnson. Driller: Tom Wilkinson.

Surface soil-----	17	17	Clay-----	16	121
Sand-----	33	50	Sand-----	29	150
Clay-----	10	60	Gravel-----	42	192
Sand-----	45	105	Clay-----	2	194

Well F-83

Owner: Oscar Thiems. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	30	135
Clay-----	24	30	Clay-----	20	155
Sand and clay-----	65	95	Gravel-----	13	168
Clay-----	10	105			

Well F-85

Owner: Charles Barber. Driller: Tom Wilkinson.

Surface soil-----	5	5	Sandrock and clay-----	50	150
Caliche-----	4	9	Clay-----	50	200
Clay-----	20	29	Sandrock and clay-----	50	250
Sand-----	18	47	Clay-----	50	300
Clay-----	53	100	Sandrock-----	32	332

Well F-87

Owner: City of Harlingen. Driller: A & T Drilling Co.

Hardpan, blue-----	19	19	Sand-----	3	22
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Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well F-87--Continued					
Clay, sand, hard-----	18	40	Clay, hard, yellow-----	20	206
Clay, with sand, fine- grained-----	120	160	Sand, blue, with small gravel-----	12	218
Layers of sand in clay-----	20	180	Sand, coarse, dark, with small gravel-----	17	235
Sand, blue water-----	6	186	Clay-----	3	238

Well F-88

Owner: City of Harlingen. Driller: A & T Drilling Co.

Sand, hard, fine-grained---	29	29	Clay, yellow-----	50	170
Clay-----	13	42	Gumbo, clay, gray-----	31	201
Sand, yellow, fine- grained-----	9	51	Gravel and sand, blue-----	29	230
Clay, medium-grained soft--	69	120	Gravel-----	8	238
			Clay-----	2	240

Well F-89

Owner: Hygeia Milk Products Co. Driller: Tom Wilkinson.

No record-----	104	104	Clay and gravel-----	21	266
Clay and sand-----	10	114	Clay, sand and gravel-----	92	358
Sand-----	22	136	Sand and gravel-----	30	388
Clay-----	10	146	Sand and clay-----	26	414
Clay and sand-----	29	175	Clay-----	16	430
Sand-----	14	189	Clay and caliche-----	18	448
Sand and gravel-----	15	204	Clay-----	22	470
Gravel-----	41	245	Gravel, clay and caliche---	40	510

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Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-89--Continued					
Sand and clay-----	29	539	Clay, sandy-----	20	658
Sand-----	58	597	Sand and clay-----	57	715
Clay-----	41	638	Shale-----	31	746

Well F-94

Owner: City of San Benito. Driller: Virdell Drilling Co.

Clay, red-----	25	25	Sand-----	9	158
Sand, clay and gravel-----	82	107	Clay-----	14	172
Sand and gravel (salt water)-----	14	121	Sand-----	6	178
Gravel and clay-----	28	149	Sand and gravel (water)-----	50	228

Well F-95

Owner: City of San Benito. Driller: Henry Cleveland.

Clay-----	30	30	Clay-----	15	132
Sand-----	30	60	Sand-----	54	186
Clay-----	27	87	Clay-----	15	201
Sand and gravel (salt water)-----	30	117	Sand-----	25	226
			Clay-----	49	275

Well J-4

Owner: H. C. Lewis. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	17	144
Sand-----	14	20	Sand and gravel-----	21	165
Clay and sand-----	70	90	Clay-----	2	167
Clay-----	37	127			

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well J-8

Owner: Leo Smith. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	52	146
Clay with sand streaks-----	88	94	Gravel-----	26	172

Well J-9

Owner: E. C. Weber. Driller: Gene Liberty.

Surface soil-----	9	9	Sand-----	17	148
Clay-----	80	89	Gravel-----	12	160
Clay, sandy-----	42	131			

Well J-14

Owner: Mrs. M. A. Reed. Driller: Otto Walk.

Surface soil-----	10	10	Sand-----	12	72
Sand-----	2	12	Clay-----	70	142
Clay-----	48	60	Gravel and sand-----	3	145

Well J-15

Owner: Vick Peters. Driller: Otto Walk.

Surface soil-----	10	10	Clay-----	10	82
Sand-----	2	12	Sand-----	50	132
Clay-----	48	60	Rock, shell, sand & gravel-	3	135
Sand-----	12	72			

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well J-18

Owner: John Benson. Driller: Tom Wilkinson.

Surface soil-----	12	12	Clay and sand-----	31	122
Clay-----	17	29	Clay-----	30	152
Sand-----	31	60	Gravel-----	35	187
Clay-----	31	91			

Well J-19

Owner: Jesus Garcia. Driller: Tom Wilkinson.

Surface soil-----	10	10	Sand and clay-----	31	60
Clay-----	2	12	Clay-----	92	152
Sand-----	17	29	Gravel-----	33	185

Well J-22

Owner: J. E. Gerusa. Driller: A & T Drilling Co.

Surface soil-----	10	10	Gravel-----	4	126
Clay-----	36	46	Clay-----	4	130
Sand-----	8	54	Sand-----	15	145
Clay with sand streaks-----	49	103	Sand and gravel-----	16	161
Sand-----	19	122			

Well J-23

Owner: Juan B. Garcia. Driller: Tom Wilkinson.

Clay and sand-----	29	29	Clay-----	50	140
Sand-----	31	60	Gravel-----	60	200
Sand and clay-----	30	90			

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well J-25

Owner: Santiago Gomez. Driller: Tom Wilkinson.

Surface soil-----	7	7	Sand and clay-----	61	121
Clay and sand-----	22	29	Sand-----	30	151
Sand-----	31	60	Gravel-----	50	201

Well K-5

Owner: F. H. Wilson. Driller: A & T Drilling Co.

Surface soil-----	6	6	Gravel-----	14	185
Sand-----	165	171			

Well K-8

Owner: J. G. Ballinger. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	63	158
Sand-----	12	18	Gravel-----	32	190
Clay-----	77	95	Sand-----	14	204

Well K-10

Owner: G. B. Smith. Driller: A & T Drilling Co.

Surface soil-----	7	7	Sand-----	35	95
Clay-----	3	10	Clay-----	30	125
Sand-----	16	26	Sand and gravel-----	49	174
Clay-----	34	60			

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well K-11

Owner: O. W. Tucker. Driller: Tom Wilkinson.

Surface soil and clay-----	29	29	Clay, sandy-----	19	140
Clay-----	61	90	Gravel-----	58	198
Clay and sand-----	10	100	Clay-----	2	200
Clay-----	21	121			

Well K-13

Owner: Mrs. -- Coakley. Driller: Tom Wilkinson.

Surface soil-----	10	10	Clay-----	30	147
Clay-----	65	75	Sand-----	3	150
Sand-----	42	117	Gravel-----	49	199

Well K-14

Owner: M. de los Santos. Driller: Tom Wilkinson.

Clay-----	29	29	Sand-----	23	145
Sand-----	32	61	Gravel-----	38	183
Clay-----	31	92	Clay-----	1	184
Clay, sandy-----	30	122			

Well K-18

Owner: Mrs. A. D. Dickinson. Driller: A & T Drilling Co.

Surface soil-----	8	8	Sand-----	8	132
Sand-----	18	26	Clay-----	8	140
Clay-----	10	36	Sand-----	10	150
Sand-----	50	86	Gravel-----	23	173
Clay-----	38	124			



Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well K-32

Owner: L. T. Boswell. Driller: Fred Fielder.

Surface soil-----	12	12	Sand and gravel-----	31	239
Clay-----	42	54	Clay-----	3	242
Sand-----	109	163	Sand and gravel-----	24	266
Sand and gravel-----	33	196	Clay-----	13	279
Clay-----	12	208			

Well K-33

Owner: Ben Benson. Driller: A & T Drilling Co.

Surface soil-----	12	12	Sand and gravel-----	19	185
Sand-----	58	70	Clay-----	26	211
Clay-----	56	126	Sand and gravel-----	21	232
Sand-----	8	134	Clay-----	2	234
Clay-----	20	154	Sand and gravel-----	48	282
Sand-----	12	166	Sand-----	18	300

Well K-34

Owner: J. T. Canales. Driller: Fred Fielder.

Surface soil-----	16	16	Gravel-----	15	180
Sand-----	24	40	Clay-----	13	193
Sand and clay-----	125	165	Gravel-----	109	302

Well K-41

Owner: Carlos Watson. Driller: A & T Drilling Co.

Surface soil-----	16	16	Sand-----	38	54
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Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well K-41--Continued

Clay with sand streaks-----	114	168	Sand and gravel-----	10	240
Sand-----	10	178	Clay-----	5	245
Sand and gravel-----	18	196	Sand and gravel-----	29	274
Clay-----	12	208	Clay-----	2	276
Sand-----	22	230			

Well K-45

Owner: Raul Lopez. Driller: A & T Drilling Co.

Surface soil-----	8	8	Clay-----	7	240
Clay, sandy-----	162	170	Sand and gravel-----	28	268
Sand and gravel-----	63	233			

Well K-46

Owner: Charles Russell. Driller: Virdell Drilling Co.

Surface sand and clay-----	26	26	Clay-----	5	145
Sand with small gravel-----	22	48	Sand, fine-grained, with streaks of clay-----	30	175
Clay-----	22	70	Gravel, small-----	20	195
Sand with clay streaks-----	10	80	Gravel, large-----	40	235
Gravel, fine, with sandy clay streaks-----	15	95	Clay-----	2	237
Sand, fine-grained, with streaks of clay-----	45	140			

Well K-47

Owner: J. T. Canales. Driller: Fred Fielder.

Surface soil and sand-----	25	25	Clay and sand-----	171	196
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Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well K-47--Continued					
Sand-----	6	202	Clay-----	44	274
Gravel-----	28	230	Sand-----	54	328

Well K-51

Owner: Lee Joe Wood. Driller: Henry Cleveland.

Clay-----	70	70	Clay-----	9	164
Sand-----	25	95	Gravel-----	40	204
Clay-----	10	105	Clay-----	2	206
Sand-----	12	117	Sand and gravel-----	21	227
Clay-----	18	135	Clay-----	11	238
Sand-----	20	155	Gravel-----	22	260

Well K-52

Owner: -- Furukawa. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand and clay-----	51	118
Sand-----	24	30	Clay-----	40	158
Clay-----	37	67	Gravel-----	32	190

Well K-53

Owner: Oscar Thiems. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	12	95
Clay-----	14	20	Clay, hard and sand streaks-----	52	147
Sand, hard-----	15	35	Sand and gravel, small-----	6	153
Sand and clay streaks-----	35	70	Gravel-----	23	176
Sand-----	13	83			

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well L-11

Owner: A. H. Fernandez. Driller: Tom Wilkinson.

Clay-----	15	15	Clay, imbedded gravel-----	9	185
Sand-----	20	35	Clay-----	28	213
Clay-----	101	136	Sand, clay breaks-----	31	244
Sand-----	28	164	Gravel-----	55	299
Gravel, sandy-----	12	176	Clay-----	3	302

Well L-13

Owner: Balbino Rego. Driller: Tom Wilkinson.

Surface soil-----	29	29	Sand-----	5	150
Clay-----	6	35	Gravel-----	61	211
Sand-----	54	89	Clay-----	30	241
Clay-----	31	120	Clay with sand streaks-----	24	265
Clay, sandy-----	25	145	Gravel-----	46	311

Well L-20

Owner: A. H. Fernandez. Driller: A & T Drilling Co.

Surface soil-----	7	7	Sand, clay streaks-----	29	93
Clay, sandy-----	10	17	Clay-----	95	188
Sand-----	22	39	Gravel, sand streaks-----	40	228
Clay-----	25	64	Sand-----	2	230

Well L-21

Owner: A. H. Fernandez. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	48	52
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Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well L-21--Continued					
Clay-----	25	77	Sand and gravel-----	47	214
Sand-----	16	93	Sand, clay streaks-----	39	253
Clay, sand streaks-----	74	167	Clay-----	52	305

Well L-22

Owner: Mrs. Alice Mayer. Driller: Tom Wilkinson.

Surface soil-----	4	4	Sand-----	50	155
Clay-----	64	68	Clay-----	10	165
Sand-----	22	90	Sand and clay-----	31	196
Clay-----	15	105	Gravel-----	49	245

Well L-23

Owner: George H. Bingley. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	33	135
Clay-----	24	30	Sand-----	10	145
Sand-----	25	55	Clay-----	14	159
Clay-----	20	75	Sand-----	18	177
Sand-----	27	102	Gravel-----	13	190

Well L-25

Owner: H. B. Fleming. Driller: O. N. Gilliland.

Soil, clay-----	149	149	Clay, white-----	19	170
Sandstone-----	2	151	Sand, hard and soft streaks, gravel-----	34	204

Table 5.--Drillers' logs of wells in Cameron County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well L-27

Owner: -- Fleming. Driller: Ted Pursley.

Surface soil-----	3	3	Shale, sticky-----	20	160
Caliche, shaly-----	11	14	Sand-----	11	171
Shale, sticky-----	33	47	Sand, hard-----	16	187
Sand-----	34	81	Gravel-----	11	198
Shale, sticky-----	36	117	Sand and gravel-----	13	211
Sand-----	23	140			

Well L-32

Owner: City of Brownsville. Driller: Texas Water Supply Corp.

Surface soil-----	15	15	Clay and sand-----	19	215
Sand, fine-grained with streaks of wood-----	24	39	Clay, sand streaks-----	127	342
Clay, gumbo-----	13	52	Sand, clay streaks-----	36	378
			Clay-----	24	402
Sand, with streaks of clay-----	46	98	Sand and gravel, fine- grained-----	65	467
Clay-----	54	152	Shale-----	21	488
Sand, fine-grained-----	44	196	Sand-----	15	503

Well L-33

Owner: City of Brownsville. Driller: Virdell Drilling Co.

Topsoil-----	4	4	Sand and clay-----	26	134
Clay-----	26	30	Clay-----	36	170
Sand-----	16	46	Gravel-----	22	192
Clay-----	26	72	Clay-----	2	194
Sand-----	36	108			

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well L-34

Owner: City of Brownsville. Driller: Virdell Drilling Co.

Topsoil-----	4	4	Sand-----	45	117
Clay-----	30	34	Clay-----	52	169
Sand-----	11	45	Gravel-----	21	190
Clay-----	27	72	Clay-----	3	193

Well L-35

Owner: City of Brownsville. Driller: Virdell Drilling Co.

Topsoil-----	4	4	Sand-----	62	134
Sand and clay-----	6	10	Clay-----	36	170
Clay-----	20	30	Gravel-----	25	195
Sand-----	12	42	Clay-----	2	197
Clay-----	30	72			

Well L-36

Owner: City of Brownsville. Driller: Virdell Drilling Co.

Topsoil-----	4	4	Sand-----	78	151
Clay-----	28	32	Clay-----	15	166
Sand-----	9	41	Gravel-----	34	200
Clay-----	32	73	Clay-----	3	203

Well L-37

Owner: City of Brownsville. Driller: Virdell Drilling Co.

Topsoil-----	3	3	Clay-----	18	28
Sand-----	7	10	Sand-----	23	51

(Continued on next page)

Table 5.--Drillers' logs of wells in Cameron County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well L-37--Continued					
Clay-----	26	77	Sand-----	20	168
Sand-----	33	110	Gravel-----	28	196
Clay with sand breaks-----	38	148	Clay-----	2	198

Well N-3

Owner: Holmes Drilling Co. Driller: Ted Pursley.

Shale, rotten-----	68	68	Sand, water, salty-----	122	331
Sand, water, salty-----	80	148	Shale-----	33	364
Shale, sandy-----	21	169	Sand, water, salty-----	48	412
Shale-----	40	209			



Table 5.--Drillers' logs of wells in Hidalgo County, Texas

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well A-14					
Owner: -- Driller: Schlumberger Co. (Core Hole)					
Caliche-----	76	76	Sand and shale (water)-----	105	1,105
Shale, sandy-----	180	256	Sand with hard breaks (water)-----	55	1,160
Sand and shale breaks-----	14	270	Shale-----	46	1,206
Shale-----	46	316	Sand with hard breaks (water)-----	70	1,276
Sand and shale-----	80	396	Sand and shale, hard sandy (water)-----	34	1,310
Sand with hard breaks (water)-----	170	566	Shale-----	6	1,316
Shale, sandy-----	50	616	Shale, sandy and sand, hard (water)-----	15	1,331
Shale, sandy with sand, hard breaks (water)-----	102	718	Shale, sandy (water)-----	28	1,359
Shale and sandy shale breaks (water)-----	20	738	Sand with hard breaks, (water)-----	23	1,382
Sand, hard and shale breaks (water)-----	107	845	Shale, sandy (water)-----	27	1,409
Rock-----	1	846	Sand with hard breaks (water)-----	167	1,576
Sandrock and soft breaks (water)-----	12	858	Shale, sandy (water)-----	40	1,616
Shale, sticky-----	17	875	Shale-----	123	1,739
Sand with hard breaks (water)-----	85	960	Sand and shale, hard-----	100	1,839
Shale-----	15	975	Shale-----	140	1,979
Sand with hard breaks (water)-----	25	1,000	Shale, sandy-----	21	2,000

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well A-17

Owner: McAllen Ranch. Driller: E. J. Rupp.

Surface soil-----	11	11	Clay-----	55	365
Rock-----	44	55	Sand-----	19	384
Clay and rock-----	10	65	Clay, white, hard-----	16	400
Sand and rock-----	15	80	Clay-----	43	443
Sand-----	7	87	Sand-----	34	477
Rock-----	28	115	Clay, white-----	43	520
Clay-----	60	175	Clay, blue-----	10	530
Clay and rock-----	20	195	Clay, gray-----	13	543
Clay, red-----	30	225	Sand-----	17	560
Clay, red and rock-----	15	240	Clay, white and rock-----	10	570
Clay, red-----	8	248	Sand and clay-----	36	606
Gravel-----	7	255	Clay and rock-----	14	620
Clay, red-----	17	272	Clay, red, gray, blue-----	28	648
Sand-----	38	310			

Well B-4

Owner: King Ranch. Driller: E. J. Rupp.

Topsoil, sandy-----	14	14	Clay, red, soft-----	55	310
Caliche, hard-----	56	70	Clay, red and rock-----	67	377
Clay, yellow, sticky-----	20	90	Clay, red, sticky-----	56	433
Clay, sandy and sandrock---	113	203	Sand and gravel-----	30	463
Clay, yellow, sticky-----	22	225	Clay, red, sticky-----	54	517
Clay, sandy and rock-----	30	255	Sand and some gravel-----	24	541

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-4--Continued					
Clay, sticky-----	7	548	Clay, red and white, sandy and rock-----	5	575
Sand and clay, red with sand breaks-----	22	570	Sand and gravel-----	29	604

Well B-6

Owner: King Ranch. Driller: E. J. Rupp.

Topsoil, sandy-----	5	5	Clay, red, sticky-----	29	579
Caliche, hard-----	45	50	Sand-----	5	584
Sand streaks and rock-----	10	60	Clay, blue-----	5	589
Clay, pink and white, sandy and rock-----	20	80	Sand-----	13	602
Clay, red and rock-----	160	240	Clay, blue, sticky-----	22	624
Clay, red, sticky-----	72	312	Sand-----	31	655
Sand-----	12	324	Clay, sticky-----	8	663
Clay and rock-----	26	350	Sand-----	10	673
Clay, red, hard, sticky----	50	400	Clay, sticky-----	55	728
Clay, red, sticky and rock-	60	460	Sand-----	12	740
Clay, red, hard with rock and sand-----	24	484	Clay-----	3	743
Clay, red-----	13	497	Sand-----	12	755
Sand and gravel-----	25	522	Clay-----	5	760
Clay and boulders-----	5	527	Sand-----	10	770
Clay, soft, sticky-----	7	534	Clay-----	5	775
Sand-----	16	550	Sand-----	21	796
			Clay, sticky-----	4	800

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-6--Continued					
Sand-----	29	829	Clay, soft, blue and boulders-----	71	911
Clay-----	1	830	Rock, hard, blue-----	9	920
Sand-----	10	840			

Well C-26

Owner: G. E. Stevens. Driller: -- Newbro.

Surface soil-----	8	8	Gravel-----	5	284
Clay, red-----	60	68	Clay, blue and shale-----	1	285
Gumbo, white-----	12	80	Sand (water)-----	52	337
Clay, blue, sticky-----	199	279			

Well C-29

Owner: -- Driller: Schlumberger Co. (Core hole)

Sand and caliche-----	44	44	Sand (water)-----	32	686
Shale-----	12	56	Sand and shale, sandy-----	10	696
Sand-----	60	116	Shale, sandy-----	51	747
Shale-----	194	310	Sand-----	40	787
Sand (water)-----	38	348	Shale-----	55	842
Shale-----	29	377	Sand-----	29	871
Sand (water)-----	33	410	Shale, sandy-----	115	986
Shale-----	52	462	Sand, hard and soft-----	65	1,051
Sand (water)-----	64	526	Shale, sandy-----	17	1,068
Sand, hard (water)-----	40	566	Sand-----	23	1,091
Shale-----	20	586	Shale-----	59	1,150
Shale, sandy-----	68	654	Sand-----	16	1,166

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well C-31

Owner: R. A. Kremel. Driller: R. A. Kremel.

Sand-----	9	9	Clay, red and caliche-----	238	318
Caliche-----	31	40	Sand, red, fine-grained----	27	345
Clay, red-----	4	44	Sand and clay (water)-----	5	350
Caliche-----	36	80			

Well D-1

Owner: McAllen Ranch. Driller: E. J. Rupp.

Surface soil-----	12	12	Clay, gray-----	6	471
Caliche-----	28	40	Sand-----	4	475
Rock and clay-----	40	80	Clay, blue-----	5	480
Clay, red and rock-----	45	125	Sand-----	14	494
Clay, white and rock-----	9	134	Clay, blue-----	16	510
No record-----	84	218	Clay, gray and rock-----	34	544
Sand-----	22	240	Clay, blue, white and rock-	21	565
Clay-----	4	244	Sand-----	24	589
Sand-----	18	262	Clay-----	3	592
Clay and rock-----	68	330	Sand-----	6	598
Sand-----	35	365	Clay-----	7	605
Clay, red and white-----	7	372	Clay, red, yellow, soft----	10	615
Clay, white and rock-----	6	378	Sandrock, hard packed-----	15	630
Sand-----	59	437	Clay, yellow, soft-----	13	643
Clay, red-----	5	442	Sand-----	41	684
Sand-----	23	465			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well D-7

Owner: McAllen Ranch. Driller: A. D. Killinger.

Caliche-----	50	50	Clay and caliche-----	152	230
Sand and caliche-----	28	78	Clay and sand (water)-----	16	246

Well D-9

Owner: Manuel Vela. Driller: A. D. Killinger.

Sand-----	3	3	Clay, sticky-----	65	500
Caliche and clay streaks---	120	123	Sand, cemented-----	7	507
Clay and shale streaks-----	73	196	Shale, sandy, hard-----	63	570
Sand-----	4	200	Shale, hard and sand streaks-----	32	602
Clay and shale streaks-----	45	245	Sandstone-----	22	624
Sand-----	11	256	Sand-----	5	629
Clay and shale streaks-----	124	380	Shale, sandy, hard and sand streaks-----	41	670
Sand, cemented-----	4	384	Washed out-----	43	713
Shale, hard and clay streaks-----	51	435			

Well D-14

Owner: Wood Christian. Driller: A. D. Killinger.

Caliche and sand-----	3	3	Caliche and shale streaks, hard-----	53	137
Caliche, hard-----	52	55	Shale-----	32	169
Caliche, sandy-----	4	59	Clay, sticky-----	16	185
Caliche-----	18	77	Shale-----	43	228
Clay, sandy-----	7	84			

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well D-14--Continued					
Clay-----	26	254	Sandstone and clay streaks-	18	558
Sand-----	1	255	Sandstone-----	21	579
Clay-----	45	300	Sandstone and clay streaks-	5	584
Shale, rotten-----	15	315	Clay-----	28	612
Shale, sticky and clay-----	26	341	Caliche, hard-----	6	618
Sandstone, hard (water)-----	9	350	Clay-----	10	628
Clay-----	6	356	Caliche, hard-----	2	630
Sand and clay streaks-----	7	363	Clay-----	14	644
Clay, sticky-----	7	370	Sand-----	16	660
Shale-----	28	398	Clay and shale streaks-----	8	668
Sand and shale streaks-----	5	403	Clay, sandy, rock streaks--	6	674
Sandstone, hard-----	2	405	Sand, hard-----	4	678
Clay, sticky-----	3	408	Clay, red, tough and shale streaks-----	40	718
Gumbo-----	18	426	Shale-----	38	756
Sand, fine-grained-----	8	434	Shale, tough-----	19	775
Clay, sticky-----	30	464	Clay and sand streaks-----	20	795
Shale-----	13	477	Sand, fine-grained, tight--	9	804
Sand-----	4	481	Clay and sand streaks-----	9	813
Shale-----	20	501	Rock-----	1	814
Sandstone-----	3	504	Clay-----	10	824
Clay, sticky-----	10	514	Rock-----	1	825
Sand, fine-grained-----	16	530	Clay and shale-----	71	896
Sand and clay streaks-----	10	540			

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well D-14--Continued					
Rock-----	1	897	Rock-----	1	910
Shale-----	1	898	Clay, sandy-----	2	912
Rock-----	1	899	Sandrock-----	4	916
Shale-----	1	900	Sand-----	12	928
Sand-----	3	903	Clay-----	3	931
Rock-----	1	904	Sand-----	8	939
Sand-----	2	906	Clay-----	8	947
Clay-----	3	909			

Well D-15

Owner: McAllen Ranch. Driller: E. J. Rupp.

Soil-----	4	4	Sand, hard-----	32	476
Caliche rock-----	88	92	Rock, hard-----	20	496
Sand breaks, boulders-----	13	105	Clay, yellow-----	37	533
Clay and rock-----	74	179	Rock, hard-----	7	540
Clay, red-----	28	207	Sand, hard-----	22	562
Sand-----	15	222	Clay, yellow, blue-----	33	595
Clay, red-----	78	300	Clay, blue, hard and rock--	30	625
Clay, red and rock, hard---	30	330	Sand-----	18	643
Sand breaks-----	20	350	Clay and rocks-----	52	695
Clay, red and rock, hard---	18	368	Sand, hard-----	18	713
Sand and boulders-----	20	388	Clay, soft and rock-----	18	731
Clay, blue and boulders----	56	444	Sand, hard and boulders----	25	756



Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well D-16

Owner: McAllen Ranch. Driller: E. J. Rupp.

Rock-----	21	21	Clay, blue, soft and boulders-----	26	432
Caliche rock-----	69	90	Sand, hard and clay breaks-	34	466
Sand-----	10	100	Boulders-----	5	471
Rocks, broken-----	60	160	Clay, rocks-----	41	512
Clay, soft, sticky-----	60	220	Sand, hard-----	23	535
Sand and boulders-----	10	230	Clay, yellow-----	65	600
Rock, hard and clay, red---	10	240	Sand-----	35	635
Sand-----	28	268	Clay, blue, white and rocks-----	14	649
Clay, red-----	12	280	Sand, hard and boulders----	8	657
Clay, white and rock-----	60	340	Clay, blue and boulders----	35	692
Clay, pink-----	11	351	Sand, hard-----	11	703
Sand-----	8	359	Clay, yellow-----	22	725
Clay, yellow, blue-----	20	379	Clay, blue and rocks-----	41	766
Sand-----	27	406	Sand, hard-----	34	800

Well D-32

Owner: A. J. Ehlers. Driller: Royal Stephens.

Sand-----	5	5	Sand, tight and gravel-----	53	85
Caliche, hard and soft layers-----	27	32	Clay, blue-----	1	86

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well D-38

Owner: R. King. Driller: A. G. Steele.

Caliche-----	18	18	Sand-----	58	92
Clay-----	16	34	Clay-----	3	95

Well D-54

Owner: Mrs. -- Veynard. Driller: A. G. Steele.

Sand-----	10	10	Sand-----	36	86
Caliche-----	25	35	Clay-----	4	90
Clay-----	15	50			

Well D-62

Owner: G. T. Harpel. Driller: A. G. Steele.

Sand-----	3	3	Sand-----	43	88
Caliche-----	20	23	Clay-----	2	90
Clay-----	22	45			

Well D-79

Owner: -- Driller: Schlumberger Co. (Core Hole)

Sand-----	5	5	Shale, sandy-----	30	105
Caliche-----	20	25	Shale-----	10	115
Sand-----	10	35	Sand-----	20	135
Ash, sandy-----	10	45	Ash, sandy-----	10	145
Sand-----	10	55	Shale-----	10	155
Caliche-----	10	65	Shale, sandy-----	30	185
Sand-----	10	75	Shale-----	20	205

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well D-79--Continued					
Shale, sandy-----	90	295	Sand-----	10	855
Sand-----	20	315	Shale, sandy (water)-----	20	875
Shale, sandy-----	30	345	Sand-----	10	885
Sand-----	15	360	Sand, hard breaks (water)--	10	895
Shale-----	13	373	Shale, hard (water)-----	10	905
Sand-----	31	404	Sand (water)-----	10	915
Shale, sandy-----	91	495	Sand, hard (water)-----	10	925
Shale-----	7	502	Sand (water)-----	20	945
Shale, sandy-----	23	525	Shale, hard-----	70	1,015
Sand, shale breaks (water)-	75	600	Shale-----	12	1,027
Shale, sandy (water)-----	160	760	Shale, sandy (water)-----	8	1,035
Sand-----	50	810	Sand-----	80	1,115
Shale, sandy-----	25	835	Shale, sandy-----	42	1,157
Shale, sandy and sand-----	10	845	Sand-----	145	1,302

Well E-1

Owner: D. Guerra and Sons. Driller: E. J. Rupp.

Surface soil-----	10	10	Sand and rock-----	30	230
Caliche and clay-----	30	40	Clay, sandy-----	15	245
Sand, caliche breaks-----	10	50	Clay, pink-----	67	312
Clay and caliche-----	20	70	Sand-----	18	330
Sand, clay and caliche-----	30	100	Clay and rock-----	20	350
Clay, red, soft-----	50	150	Clay, red, brown, blue-----	44	394
Sand-----	50	200	Sand-----	23	417

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-1--Continued					
Clay-----	5	422	Sand-----	25	620
Sand, hard-----	43	465	Clay-----	4	624
Clay-----	6	471	Sand-----	23	647
Sand-----	12	483	Clay, blue, white, red-----	18	665
Clay-----	6	489	Sand, hard-----	32	697
Sand-----	35	524	Clay-----	4	701
Clay-----	11	535	Sand-----	36	737
Sand-----	32	567	Clay and boulders-----	5	742
Clay-----	3	570	Sand and boulders-----	49	791
Sand and boulders-----	9	579	Clay, blue-----	21	812
Clay, white and rock-----	16	595	Sand, hard-----	22	834

Well E-6

Owner: King Ranch. Driller: E. J. Rupp.

Soil, sandy-----	10	10	Clay, blue, sandy and gypsum-----	102	410
Clay and caliche-----	80	90	Clay, blue, soft-----	30	440
Clay, sandy-----	20	110	Clay, red, sticky-----	10	450
Clay, white, pink-----	15	125	Sand-----	10	460
Sand and gravel-----	20	145	Clay, red, sticky-----	40	500
Clay, sticky-----	40	185	Sand, white-----	10	510
Sand and gravel-----	25	210	Gypsum-----	16	526
Rock, hard-----	10	220	Clay, sticky-----	5	531
Clay, red, sticky-----	40	260	Gypsum-----	8	539
Clay, white, blue and rock-	48	308			

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-6--Continued					
Clay, red, blue, sticky----	31	570	Sand and gravel-----	23	823
Clay, red, sticky and rock-	55	625	Clay-----	4	827
Sand-----	37	662	Sand-----	13	840
Clay, red, brown, blue----	28	690	Clay, blue, sticky-----	19	859
Clay, red, sticky-----	24	714	Sand-----	30	889
Sand and gravel-----	35	749	Clay, brown, yellow, sticky-----	41	930
Clay, soft and rocks-----	8	757	Sand-----	20	950
Clay, red, sticky-----	13	770	Clay, white, pink and rocks-----	28	978
Clay, red, sticky and rocks-----	30	800	Sand-----	24	1,002

Well E-8

Owner: Ronaldo Garza. Driller: A. D. Killinger.

Surface-----	6	6	Clay and sandy clay streaks-----	50	258
Shale and sand streaks----	22	28	Sand-----	4	262
Clay, red-----	14	42	Clay-----	16	278
Shale-----	22	64	Clay and sand streaks----	16	294
Clay, hard-----	21	85	Clay, soft-----	50	344
Clay, caliche-----	23	108	Clay, soft-----	14	358
Caliche-----	11	119	Sand-----	21	379
Clay, caliche-----	10	129	Clay-----	9	388
Clay, sticky-----	51	180	Sand and shale streaks----	12	400
Sand-----	28	208	Sand with gypsum-----	37	437

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-8--Continued					
Shale and sandy clay-----	4	441	Shale, hard and clay streaks-----	82	602
Sand and hard sand streaks-	29	470	Clay-----	68	670
Clay, sticky-----	21	491	Shale, rotten-----	11	681
Sand and clay streaks-----	3	494	Sand-----	4	685
Sand-----	8	502	Clay-----	1	686
Clay and shale streaks-----	6	508	Sand-----	26	712
Shale, red, hard-----	12	520	Clay-----	3	715

Well E-14

Owner: King Ranch. Driller: E. J. Rupp.

Soil, sandy-----	5	5	Clay, soft and rock-----	39	370
Caliche-----	45	50	Clay, brown, blue, sticky--	45	415
Clay and rocks-----	60	110	Sand-----	18	433
Rocks-----	20	130	Clay and rocks-----	13	446
Clay, soft and rocks-----	50	180	Sand and gravel-----	69	515
Clay, sandy and sandrock---	40	220	Clay-----	20	535
Clay, pink, blue, soft and rocks-----	50	270	Sand-----	40	575
Clay, red-----	12	282	Clay, blue-----	5	580
Sand-----	10	292	Sand and gravel-----	60	640
Clay, soft-----	8	300	Clay-----	6	646
Clay, red, blue, sticky----	10	310	Clay, red, sticky-----	38	684
Clay, soft with rock and sand breaks-----	21	331	Sand-----	34	718
			Clay, blue, sticky-----	12	730

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-14--Continued					
Sand-----	14	744	Sand-----	15	780
Clay, sticky-----	21	765			

Well E-16

Owner: Guerra Bros. Driller: E. Rupp.

Soil-----	18	18	Sand-----	26	678
Caliche-----	52	70	Clay and rock-----	38	716
Sand-----	20	90	Clay and sand-----	14	730
Clay-----	90	180	Clay-----	10	740
Sand-----	20	200	Sand-----	20	760
Clay and rock-----	60	260	Clay-----	37	797
Clay and sand-----	48	308	Rock-----	3	800
Clay-----	107	415	Sand-----	30	830
Sand-----	61	476	Clay-----	35	865
Clay-----	18	494	Sand-----	45	910
Sand-----	51	545	Clay-----	18	928
Clay-----	38	583	Sand-----	17	945
Sand-----	15	598	Clay-----	45	990
Clay-----	54	652	Sand (water)-----	30	1,020

Well E-20

Owner: D. Guerra and Sons. Driller: E. J. Rupp.

Soil-----	12	12	Sand-----	10	60
Caliche-----	38	50	Caliche-----	15	75

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well E-20--Continued					
Clay, sandy and rock-----	25	100	Clay-----	2	627
Clay, red, sandy-----	150	250	Sand-----	9	636
Clay and rock-----	60	310	Clay, red-----	24	660
Clay, white-----	17	327	Sand-----	2	662
Sand, hard-----	14	341	Clay-----	13	675
Clay-----	119	460	Sand-----	11	686
Gumbo-----	20	480	Clay-----	2	688
Gypsum and clay-----	40	520	Gravel and sand-----	10	698
Sand, hard-----	22	542	Clay-----	15	713
Clay-----	6	548	Sand-----	39	752
Sand, hard-----	9	557	Sand and boulders-----	18	770
Clay, red-----	18	575	Clay-----	2	772
Sand-----	50	625	Sand-----	39	811

Well E-21

Owner: Ronaldo Garza. Driller: A. D. Killinger.

Surface soil-----	7	7	Clay, sandy and sand-----	30	204
Caliche-----	13	20	Clay-----	16	220
Clay-----	20	40	Clay, sandy-----	33	253
Caliche, sandy-----	64	104	Clay, sandy and sand streaks-----	117	370
Clay and caliche-----	20	124	Clay-----	82	452
Sand-----	18	142	Sand, fine-grained-----	13	465
Sand, fine-grained (salt water)-----	32	174	Clay, sandy-----	17	482

(Continued on next page)



Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well E-21--Continued							
Clay-----	30	512	Sand, clay streaks-----	36	668		
Sand (salt water)-----	73	585	Clay-----	49	717		
Clay, sandy-----	12	597	Sand-----	23	740		
Clay-----	35	632	Clay-----	2	742		

Well E-27

Owner: C. M. Corbett. Driller: E. J. Rupp.

Clay-----	12	12	Sand, fine-grained-----	15	495		
Clay and caliche-----	8	20	Clay, blue-----	34	529		
Sand, clay-----	20	40	Sand-----	16	545		
Clay-----	10	50	Clay-----	37	582		
Sand streaks-----	10	60	Sand-----	42	624		
Clay-----	185	245	Rock-----	1	625		
Sand-----	21	266	Clay, red and rock-----	45	670		
Clay, sand breaks-----	124	390	Sand-----	25	695		
Clay-----	70	460	Clay, red-----	33	728		
Clay and rocks-----	20	480	Sand-----	34	762		

Well E-31

Owner: G. H. Coates. Driller: A. D. Killinger.

Surface soil-----	20	20	Clay, soft-----	5	142		
Clay, soft-----	49	69	Clay, hard, sticky-----	10	152		
Caliche, hard, soft-----	23	92	Clay, soft-----	45	197		
Clay, hard streaks-----	45	137	Clay, sand streaks-----	5	202		

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-31--Continued					
Sand, hard streaks-----	12	214	Clay, hard, sticky-----	18	604
Clay, sticky-----	6	220	Shale, yellow, brown-----	16	620
Clay, sandy-----	80	300	Clay, sticky-----	61	681
Sand and caliche-----	39	339	Clay, sticky and shale-----	10	691
Clay, sandy-----	20	359	Sand, sandy clay streaks---	6	697
Clay, hard streaks-----	18	377	Clay, sticky-----	4	701
Clay-----	66	443	Sand-----	7	708
Clay, sandy-----	21	464	Sandstone, hard-----	12	720
Clay, hard sand streaks---	12	476	Clay, sticky-----	5	725
Clay, sandy, hard streaks--	14	490	Sand-----	33	758
Clay, hard sand streaks---	21	511	Clay-----	5	763
Sand, shale streaks-----	55	566	Sandstone-----	10	773
Sand, hard and clay, sticky-----	20	586	Clay, sticky-----	1	774
			Sandstone-----	8	782

Well E-34

Owner: P. C. Zamora. Driller: E. J. Rupp.

Surface soil-----	6	6	Clay, red, sandy-----	73	280
Clay, brown, soft-----	16	22	Sand, fine-grained-----	30	310
Gypsum and clay-----	38	60	Clay, white, soft-----	70	380
Caliche-----	53	113	Clay, yellow-----	34	414
Clay, red, sticky-----	37	150	Sand, gray-----	26	440
Sand-----	10	160	Clay, yellow-----	28	468
Clay, light red-----	47	207	Sand-----	10	478

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-34--Continued					
No record-----	9	487	No record-----	56	631
Sand-----	88	575			

Well E-35

Owner: Juanlina Garza. Driller: A. D. Killinger.

Surface soil-----	5	5	Sand, firm and clay-----	65	312
Clay, sandy-----	10	15	Sand, hard and caliche-----	28	340
Clay, hard-----	5	20	Clay-----	95	435
Clay, sandy-----	15	35	Clay and sand, fine- grained-----	27	462
Caliche and clay, sandy----	5	40	Shale, blue-----	23	485
Caliche and clay-----	40	80	Sand-----	16	501
Clay-----	54	134	Clay, red, blue-----	51	552
Sand-----	22	156	Sand-----	3	555
Clay, sandy-----	15	171	Clay, red-----	20	575
Clay-----	30	201	Clay, red, sand streaks----	66	641
Caliche, hard and clay, sandy-----	14	215	Sand-----	9	650
Caliche, sandy and clay----	16	231	Clay, sand streaks-----	20	670
Sand and caliche-----	16	247	Sand (water)-----	35	705

Well E-36

Owner: King Ranch. Driller: E. J. Rupp.

Sand-----	10	10	Rock and sand-----	20	90
Clay-----	6	16	Clay, red, sand breaks-----	20	110
Caliche, clay, sand-----	54	70	Clay, red-----	60	170

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-36--Continued					
Sand breaks-----	20	190	Sand-----	16	524
Clay, sandy and rock-----	100	290	Clay-----	5	529
Sand breaks and boulders---	15	305	Sand-----	5	534
Clay and rock-----	25	330	Clay-----	6	540
Clay, pink, white-----	70	400	Sand-----	29	569
Clay, red-----	30	430	Clay-----	5	574
Sand-----	20	450	Sand, hard-----	10	584
Clay and rock-----	31	481	Clay-----	18	602
Sand-----	19	500	Sand-----	23	625
Clay-----	8	508			

Well E-39

Owner: M. Chapa. Driller: E. J. Rupp.

Surface soil-----	7	7	Clay, red-----	93	199
Sand and clay-----	11	18	Sand-----	20	219
Rock-----	32	50	Clay, white and rock-----	152	371
Clay-----	15	65	Clay, red, yellow-----	59	430
Sand-----	41	106	Sand-----	41	471

Well E-43

Owner: Linn School District. Driller: Fred Fiedler.

Sand and clay-----	33	33	Clay, sticky and sand-----	130	343
Clay-----	121	154	Clay-----	40	383
Sand-----	59	213	Sand-----	60	443

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-43--Continued					
Clay, sandy-----	20	463	Sand, blue clay and shells-	108	948
Sand-----	20	483	Sand-----	40	988
Clay-----	20	503	Sand and clay-----	72	1,060
Sand-----	20	523	Sand-----	40	1,100
Clay-----	60	583	Clay and sandy clay-----	44	1,144
Sand-----	20	603	Sand-----	50	1,194
Clay-----	47	650	Clay and sandy clay-----	90	1,284
Clay and sand-----	90	740	Sand (water)-----	80	1,364
Clay-----	20	760	Clay-----	19	1,383
Sand and clay-----	20	780	Sand-----	47	1,430
Sand-----	20	800	Sand and gravel-----	20	1,450
Clay-----	27	827	Sand-----	20	1,470
Sand-----	13	840			

Well E-49

Owner: Southern Pacific Railroad Co. Driller: J. W. Jackson.

Surface sand-----	3	3	Gumbo, tough-----	98	310
Caliche-----	90	93	Sand-----	20	330
Sand, red, fine-grained---	12	105	Gumbo-----	72	402
Gumbo-----	11	116	Sand-----	99	501
Sand-----	7	123	Gumbo-----	6	507
Gumbo and shale-----	46	169	Sand-----	15	522
Caliche-----	27	196	Gumbo-----	6	528
Shale-----	16	212	Sand-----	6	534

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-49--Continued					
Rock-----	2	536	Sand and shale-----	23	640
Gumbo-----	52	588	Gumbo-----	52	692
Sand-----	8	596	Shale and sand-----	38	730
Gumbo-----	7	603	Sand-----	14	744
Sand, hard, soft rock-----	7	610	Shale, sand and gumbo-----	21	765
Gumbo-----	7	617			

Well E-82

Owner: J. P. Cruise. Driller: A. G. Steele.

Surface material-----	6	6	Sand-----	2	71
Caliche-----	26	32	Clay-----	2	73
Sand, hard-----	35	67	Sand-----	3	76
Clay-----	2	69	Clay-----	58	134

Well E-86

Owner: J. P. Cruise. Driller: A. G. Steele.

Clay and caliche-----	26	26	Clay-----	19	100
Sand-----	55	81			

Well F-11

Owner: -- Driller: Schlumberger Co. (Core hole)

Sand-----	15	15	Shale-----	20	95
Caliche-----	5	20	Shale, sandy-----	110	205
Shale, sandy-----	25	45	Ash, sandy-----	30	235
Shale, hard-----	30	75	Sand-----	60	295

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-11--Continued					
Sand with shale breaks-----	10	305	Sand-----	45	1,045
Shale-----	20	325	Shale, sandy-----	10	1,055
Shale, sandy-----	10	335	Sand with shale breaks-----	30	1,085
Sand (water)-----	30	365	Shale, sandy-----	10	1,095
Shale, sandy-----	10	375	Shale-----	10	1,105
Sand (water)-----	10	385	Sand-----	100	1,205
Sand with shale breaks (water)-----	20	405	Shale, sandy-----	20	1,225
Shale, sandy-----	10	415	Sand-----	20	1,245
Sand (water)-----	20	435	Shale, sandy-----	40	1,285
Shale-----	16	451	Shale-----	35	1,320
Sand (water)-----	149	600	Shale, sandy-----	77	1,397
Sand with hard breaks-----	25	625	Shale, hard-----	10	1,407
Sand (water)-----	30	655	Shale, very hard-----	10	1,417
Shale, sandy, hard breaks--	20	675	Shale, hard-----	10	1,427
Shale-----	20	695	Shale, sandy-----	10	1,437
Sand (water)-----	100	795	Shale-----	10	1,447
Sand, hard (water)-----	10	805	Shale, sandy-----	10	1,457
Sand (water)-----	50	855	No record-----	50	1,507
Shale-----	50	905	Shale-----	10	1,517
Sand-----	15	920	Shale, sandy-----	20	1,537
Shale, sandy-----	2	922	Sand-----	10	1,547
No record-----	15	937	Shale-----	40	1,587
Sand-----	28	965	Shale, sandy-----	10	1,597
Shale, sandy-----	35	1,000	Shale-----	20	1,617

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well F-21							
Owner: -- Driller: Schlumberger Co. (Core hole)							
Sand-----	25	25	Shale, sandy-----	40	695		
Ash, sandy-----	90	115	Sand-----	20	715		
Sand (water)-----	20	135	Sand, hard breaks-----	20	735		
Shale, sandy-----	20	155	Sand-----	10	745		
Sand (water)-----	77	232	Shale, sandy-----	10	755		
Sand, hard (water)-----	6	238	Sand-----	30	785		
Sand (water)-----	4	242	Shale, sandy-----	80	865		
Sand, hard-----	3	245	Shale-----	85	950		
Sand with hard breaks (water)-----	60	305	Shale, sticky-----	35	985		
Sand-----	30	335	Shale, sandy-----	15	1,000		
Shale-----	30	365	Sand-----	55	1,055		
Sand-----	40	405	Shale, sandy-----	60	1,115		
Sand, hard breaks-----	60	465	Shale-----	10	1,125		
Sand-----	60	525	Shale, sandy-----	70	1,195		
Shale-----	30	555	Shale-----	30	1,225		
Sand-----	70	625	Shale, sandy-----	5	1,230		
Shale-----	30	655	Sand-----	18	1,248		
			Shale-----	7	1,255		

Well F-23

Owner: -- Driller: Schlumberger Co. (Core hole)

Sand and shale, sandy-----	37	37	Sand, hard-----	27	76		
Sand-----	12	49	No record-----	5	81		

(Continued on next page)



Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-23--Continued					
Sand, hard (water)-----	82	163	Sand-----	72	478
Shale-----	50	213	Shale-----	80	558
Sand, hard breaks (water)--	46	259	Shale and sandy shale-----	37	595
Shale-----	17	276	Shale-----	9	604
No record-----	35	311	Sand-----	10	614
Sand-----	37	348	Shale-----	92	706
Shale, sandy-----	58	406			

Well F-28

Owner: E. Salinas. Driller: -- Colbath.

Caliche and gravel-----	37	37	Clay-----	84	195
Gravel and clay, gray-----	57	94	Sand-----	10	205
Sand-----	17	111			

Well F-29

Owner: Block and Wallace. Driller: Pat Farmer.

Surface soil-----	4	4	Sand-----	49	249
Shale-----	8	12	Gravel, sandy-----	24	273
Caliche-----	13	25	Rock-----	1	274
Shale-----	50	75	Sand-----	16	290
Shale, sandy-----	35	110	Shale-----	11	301
Gravel-----	4	114	Rock-----	1	302
Gumbo-----	4	118	Sand-----	2	304
Shale, sandy-----	82	200	Rock-----	1	305

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-29--Continued					
Sand-----	6	311	Gumbo-----	30	375
Rock-----	1	312	Sand-----	30	405
Shale-----	16	328	Gravel and sand-----	90	495
Shale, sandy-----	17	345			

Well F-31

Owner: J. E. Winston. Driller: A. D. Killinger.

Surface soil-----	14	14	Sand-----	4	426
Caliche-----	30	44	Clay, sticky-----	1	427
Caliche and clay-----	53	97	Sand-----	10	437
Clay, sandy-----	7	104	Clay, hard-----	3	440
Clay-----	23	127	Sand-----	5	445
Sand and clay streaks-----	30	157	Clay, sticky-----	25	470
Clay-----	62	219	Sand and clay-----	6	476
Shale, rotten-----	14	233	Clay-----	4	480
Clay-----	32	265	Clay and shale streaks-----	14	494
Shale, rotten-----	32	297	Sand, hard and clay streaks-----	7	501
Clay-----	14	311	Sand, soft and clay-----	38	539
Clay and sand, hard streaks-----	31	342	Shale, sandy-----	10	549
Clay and shale, rotten-----	48	390	Shale, sandy, hard-----	11	560
Clay, soft-----	10	400	Shale, brown, coarse-----	8	568
Clay, sandy-----	4	404	Clay, sticky-----	13	581
Clay, sticky-----	18	422	Shale, hard, sand streaks--	17	598

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well F-31--Continued					
Clay, sandy, hard streaks--	84	682	Sand, hard streaks-----	17	723
Shale, rotten and sand, hard-----	16	698	Clay, sticky-----	11	734
Clay, sandy-----	8	706	Sand, hard streaks-----	43	777

Well G-9

Owner: Hammond Bros. Driller: A. D. Killinger.

Surface soil-----	10	10	Clay, sticky-----	5	429
Caliche-----	31	41	Clay, sandy and sand streaks-----	13	442
Caliche and clay, hard-----	33	74	Clay, sticky and sandy clay streaks-----	13	455
Clay-----	25	99	Rock-----	1	456
Clay and caliche-----	11	110	Clay-----	3	459
Shale, sandy-----	64	174	Rock-----	1	460
Clay, hard-----	31	205	Clay, sticky-----	16	476
Clay, sandy-----	26	231	Clay, sandy-----	9	485
Clay-----	8	239	Sand, shale streaks-----	8	493
Clay, sticky-----	5	244	Clay-----	8	501
Clay, soft with hard streaks-----	26	270	Rock-----	1	502
Sand, shale streaks-----	43	313	Clay-----	2	504
Clay-----	17	330	Rock-----	1	505
Clay, sandy-----	44	374	Clay-----	10	515
Clay, sticky-----	22	396	Clay, sandy and shale-----	17	532
Clay, sandy-----	28	424	Sand, hard-----	32	564

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well G-24					
Owner: Hammond Bros. Driller: O. C. Woods.					
Soil, sand and clay-----	315	315	Gumbo, hard streaks-----	19	996
Gumbo-----	196	511	Rock-----	1	997
Sand, blue, fine-grained---	11	522	Sand, fine-grained, hard---	19	1,016
Gumbo-----	25	547	Gumbo-----	19	1,035
Rock-----	1	548	Sand (water)-----	5	1,040
Gumbo and gravel-----	31	579	Shale, sand streaks-----	21	1,061
Gumbo-----	63	642	Sand (water)-----	19	1,080
Clay, sandy, hard-----	35	677	Rock-----	1	1,081
Clay, soft-----	3	680	Gumbo-----	44	1,125
Clay, sandy, hard and pyrites-----	50	730	Shale, sandy-----	14	1,139
Gumbo and gravel-----	22	752	Rock-----	4	1,143
Limerock and gumbo-----	20	772	Clay, hard, sandy-----	14	1,157
Gumbo and gravel-----	3	775	Sand, white, fine-grained--	4	1,161
Sand and clay-----	10	785	Gumbo-----	4	1,165
Gumbo and limerock-----	35	820	Sand, white, fine-grained--	5	1,170
Limerock, hard-----	2	822	Clay-----	17	1,187
Gumbo and limerock-----	64	886	Shale, hard, sandy and sand, fine-grained-----	11	1,198
Limerock, hard-----	11	897	Gumbo-----	35	1,233
Gumbo-----	33	930	Shale-----	23	1,256
Rock and shale-----	18	948	Rock-----	1	1,257
Gumbo-----	2	950	Clay, hard, sandy-----	16	1,273
Rock and shale-----	27	977	Packsand, fine-grained-----	12	1,285

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well G-24--Continued					
Gumbo-----	44	1,329	Sand-----	3	1,379
Shale and sand-----	6	1,335	Gumbo, hard, dry-----	27	1,406
Shale-----	25	1,360	Sand, fine-grained-----	11	1,417
Rock-----	2	1,362	Clay, hard, sandy-----	15	1,432
Shale, hard, sandy-----	14	1,376	Gumbo-----	15	1,447

Well G-26

Owner: Baptist Seminary. Driller: A. L. Willingham.

Surface soil-----	10	10	Gravel and sand (bad water)-----	30	170
Clay, red, gravelly-----	30	40	Clay, yellow, gray-----	245	415
Caliche-----	30	70	Sand, gray-----	10	425
Clay, yellow-----	70	140			

Well H-6

Owner: Arturo Garza. Driller: A. G. Steele.

Sand and clay-----	10	10	Sand-----	73	95
Caliche-----	12	22	Clay-----	1	96

Well H-40

Owner: Southern Pacific Railroad Co. Driller: J. W. Jackson.

Sand and surface soil-----	8	8	Gumbo, tough-----	34	230
Caliche-----	104	112	Packsand and rock, soft---	25	255
Sand and rock-----	14	126	Shale, sandy-----	65	320
Gravel (salt water)-----	8	134	Gumbo, tough-----	50	370
Gumbo, hard-----	38	172	Shale-----	9	379
Shale-----	24	196	Gumbo, pink-----	41	420

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well H-40--Continued					
Sand-----	18	438	Gumbo, hard-----	15	567
Sand packed, and rock-----	19	457	Shale, sand streaks-----	19	586
Boulders and sandrock-----	20	477	Sand with boulders-----	83	669
Shale and sand-----	17	494	Shale, broken, gumbo-----	36	705
Gumbo-----	20	514	Gumbo, hard-----	95	800
Gumbo, pink-----	25	539	Sand, hard, porous-----	18	818
Slate, black, hard (strong gas)-----	13	552	Gumbo, hard-----	154	972
			Sand, hard, porous-----	68	1,040

Well H-44

Owner: Pat Farmer. Driller: Pat Farmer.

Sand, fine-grained-----	10	10	Shale-----	15	120
Clay, red-----	37	47	Sand, fine-grained-----	23	143
Shale, red-----	38	85	Gravel, assorted-----	33	176
Sand, fine-grained, red----	20	105			

Well H-47

Owner: Hannis Turberville. Driller: Pat Farmer.

Clay, red-----	15	15	Shale, sandy-----	18	238
Sand-----	15	30	Sand-----	12	250
Gumbo-----	35	65	Gumbo-----	5	255
Shale-----	28	93	Shale, sandy-----	14	269
Sand-----	17	110	Gumbo-----	23	292
Gumbo-----	20	130	Sand-----	39	331
Sand-----	90	220			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well J-23					
Owner: L. F. Nittler. Driller: Pat Farmer.					
Quicksand-----	28	28	Shale, gummy-----	8	332
Clay, red-----	23	51	Quicksand-----	18	350
Shale, sandy-----	10	61	Gumbo-----	16	366
Gumbo-----	11	72	Shale, gummy-----	44	410
Shale, sandy-----	8	80	Sand, fine-grained-----	8	418
Shale, gummy-----	14	94	Shale, gummy-----	26	444
Shale, sandy-----	26	120	Sand-----	6	450
Sand, fine-grained-----	15	135	Shale, gummy-----	28	478
Shale-----	17	152	Sand-----	8	486
Sand, coarse-----	59	211	Shale, gummy-----	25	511
Gumbo-----	9	220	Sand-----	22	533
Shale, sandy-----	34	254	Shale-----	7	540
Shale-----	11	265	Sand-----	28	568
Shale, sandy-----	15	280	Shale-----	10	578
Shale, gummy-----	18	298	Sand-----	45	623
Gumbo-----	26	324			

Well J-25

Owner: Marrs Nursery. Driller: Arlis Killinger.

Topsoil-----	5	5	Clay-----	55	89
Clay, sandy-----	19	24	Sand-----	41	130
Sand-----	10	34	Clay-----	5	135

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well J-26

Owner: Marrs Nursery. Driller: Arlis Killinger.

Topsoil-----	5	5	Sand-----	36	128
Sand-----	20	25	Clay-----	3	131
Sand, fine-grained-----	10	35	Clay, sandy-----	33	164
Clay-----	57	92	Pea gravel-----	36	200

Well J-28

Owner: Rio Farms, Inc. Driller: Layne-Texas Co.

Sand-----	56	56	Shale-----	201	848
Shale-----	41	97	Sand-----	4	852
Sand, fine-grained-----	26	123	Shale-----	8	860
Sand-----	30	153	Sand and shale streaks-----	36	896
Shale and sand-----	16	169	Sand-----	18	914
Gravel and shale-----	31	200	Shale, sandy and shale-----	46	960
Sand, brown, coarse-----	34	234	Sand-----	19	979
Shale-----	12	246	Shale and sandy shale-----	207	1,186
Sand, coarse-----	59	305	Sand, fine-grained-----	20	1,206
Shale-----	40	345	Shale and sandy shale-----	18	1,224
Sand-----	11	356	Sand and shale streaks-----	37	1,261
Shale and sand-----	26	382	Sand, fine-grained, gray and shale streaks-----	49	1,310
Shale and sandy shale-----	81	463	Shale, sandy streaks-----	55	1,365
Shale-----	75	538	Shale-----	29	1,394
Shale and sandy shale-----	37	575	Shale, sandy and shale-----	46	1,440
Sand, fine-grained-----	72	647			

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Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well J-28--Continued					
Sand and shale streaks-----	22	1,462	Shale-----	18	1,521
Shale and sandy shale-----	19	1,481	Sand and shale-----	21	1,542
Sand and shale streaks-----	22	1,503	Shale-----	43	1,585

Well J-34

Owner: Milton Richardson. Driller: Pat Farmer.

Clay, red-----	12	12	Shale-----	16	80
Quicksand-----	8	20	Gumbo-----	14	94
Clay-----	8	28	Shale-----	8	102
Shale, sandy-----	12	40	Sand-----	6	108
Gumbo-----	8	48	Shale-----	10	118
Shale-----	10	58	Shale, sandy-----	42	160
Gumbo-----	6	64	Gravel, fine-grained-----	50	210

Well J-42

Owner: J. D. Bourland. Driller: O. T. Davis.

Clay-----	15	15	Clay-----	162	192
Sand-----	15	30	Sand and gravel (water)-----	87	279

Well J-53

Owner: E. C. Ingerstram. Driller: Pursley Drilling Co.

Surface soil-----	3	3	Shale-----	88	248
Sand-----	57	60	Sand-----	82	330
Shale-----	62	122	Shale-----	8	338
Sand-----	38	160			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well K-10					
Owner: J. D. Reavis. Driller: Gene Liberty.					
Clay and caliche-----	90	90	Shale-----	4	180
Gravel-----	10	100	Shale, sandy-----	14	194
Shale-----	30	130	Sand (water)-----	28	222
Sand-----	12	142	Shale, sandy-----	38	260
Shale-----	8	150	Sand (water)-----	80	340
Sand-----	11	161	Shale-----	28	368
Shale-----	7	168	Sand-----	46	414
Sand-----	8	176			

Well K-15

Owner: Bentsen Brothers. Driller: -- Colbath.

Sand-----	10	10	Gravel-----	1	77
Clay and sand-----	19	29	Clay and sand-----	40	117
Clay, blue-----	13	42	Clay, red, sandy-----	11	128
Sand-----	17	59	Conglomerate and clay seams-----	80	208
Gravel-----	10	69	Sand, fine-grained-----	123	331
Sand-----	7	76			

Well K-23

Owner: Ray Barnick. Driller: Bert Killinger.

Surface soil-----	15	15	Sand and clay-----	26	76
Caliche-----	10	25	Sand-----	16	92
Clay-----	25	50	Sand and gravel, scattered-	3	95

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well K-23--Continued					
Gravel, cemented-----	2	97	Clay-----	14	182
Sand, firm-----	3	100	Sand-----	16	198
Gravel, cemented-----	1	101	Clay-----	38	236
Sand, loose-----	3	104	Sand-----	4	240
Gravel and cemented gravel	8	112	Clay-----	15	255
Sand, firm-----	3	115	Sand, firm-----	17	272
Clay-----	35	150	Sand, good-----	68	340
Sand-----	18	168	Clay-----	5	345

Well K-24

Owner: F. P. Eckroat. Driller: Bert Killinger.

Caliche-----	35	35	Sand-----	28	157
Caliche and clay-----	18	53	Shale-----	4	161
Sand-----	15	68	Sand-----	22	183
Gravel, cemented-----	2	70	Shale-----	18	201
Sand (water)-----	11	81	Sand, firm-----	16	217
Gravel, cemented-----	9	90	Sand, good-----	33	250
Shale, hard-----	10	100	Sand layers, loose and hard-----	26	276
Shale-----	29	129			

Well K-25

Owner: E. M. Goodwin. Driller: Bert Killinger.

Caliche, hard-----	20	20	Gravel, loose-----	10	56
Caliche and clay-----	26	46	Gravel, cemented-----	29	85

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well K-25--Continued

Sand, fine-grained-----	5	90	Clay-----	67	200
Clay-----	40	130	Sand, hard-----	48	248
Sand, hard-----	3	133	Clay-----	4	252

Well K-29

Owner: LaJoya Estate. Driller: A. L. Willingham.

Surface soil-----	12	12	Clay-----	20	90
Sand, light-----	26	38	Gravel, sand with clay beds (water)-----	90	180
Gravel, loose-----	32	70			

Well K-30

Owner: Oscar Daskam. Driller: E. Daskam.

Surface soil-----	20	20	Sand, blue, gray (salt water)-----	5	77
Gravel-----	20	40	Clay, red-----	7	84
Ash, volcanic-----	4	44	Sandrock (water)-----	4	88
Clay, red and sand, brown--	26	70	Clay, red and blue shale---	15	103
Sandrock-----	2	72	Sandrock and sand-----	5	108

Well K-32

Owner: E. W. Sullivan. Driller: E. W. Johnson.

Soil-----	8	8	Sand and gravel-----	20	61
Clay, red-----	33	41	Clay, red-----	19	80

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well K-52

Owner: Bannworth Brothers. Driller: A. D. Killinger.

Topsoil-----	3	3	Clay, sandy-----	4	40
Sand-----	5	8	Clay, blue, silty-----	15	55
Clay-----	13	21	Clay, red streaks, blue sandy clay, and gravel--	10	65
Sand-----	12	33	Gravel-----	10	75
Clay-----	3	36			

Well K-58

Owner: M. C. Hanson. Driller: A. D. Killinger.

Dirt and sand-----	20	20	Clay, sticky-----	26	148
Caliche, sand streaks-----	8	28	Clay, sandy-----	4	152
Caliche, hard and sand streaks-----	10	38	Sand, cemented-----	36	188
Gravel, cemented-----	6	44	Clay, sticky-----	55	243
Clay-----	15	59	Sand-----	27	270
Gravel-----	2	61	Clay-----	8	278
Clay, sandy and shale streaks-----	61	122			

Well K-82

Owner: Gerald Langford. Driller: Arlis Killinger.

Clay-----	30	30	Pea sand and gravel boulders-----	30	117
Sand, firm-----	10	40	Clay-----	1	118
Sand-----	47	87			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well L-14

Owner: C. W. McMillon. Driller: Pursley.

Topsoil-----	16	16	Shale-----	32	231
Caliche-----	83	99	Sand-----	12	243
Gravel, small and sand-----	100	199	Gravel, large-----	54	297

Well L-25

Owner: Bentsen Bros. Driller: A. D. Killinger.

Dirt-----	6	6	Clay, yellow-----	11	212
Sand and dirt-----	8	14	Sand, yellow and red-----	20	232
Caliche-----	14	28	Clay, pink-----	3	235
Clay, soft and caliche-----	22	50	Sand, gravel, broken streaks-----	61	296
Clay, soft-----	20	70	Clay, sandy and sand with gravel streaks-----	14	310
Sand and gravel-----	15	85	Clay, red-----	53	363
Clay-----	4	89	Sand, brown-----	17	380
Gravel, cemented-----	1	90	Clay-----	14	394
Sand and gravel with grav- el streaks, cemented-----	70	160	Clay and sand streaks-----	41	435
Clay, red-----	10	170	Clay, hard and sand streaks-----	40	475
Sandrock and gravel, large-	27	197	Sand with hard streaks-----	62	537
Gravel, hard, cemented-----	4	201			

Well L-46

Owner: Weldon Tisdale. Driller: Bert Killinger.

Clay-----	30	30	Gravel, sandy-----	10	55
Sand, hard-----	15	45	Gravel, loose-----	10	65

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well L-46--Continued					
Clay, soft-----	5	70	Sand-----	9	249
Sand streaks, hard and soft-----	10	80	Sandrock, hard-----	4	253
Sandrock-----	13	93	Sand-----	9	262
Sand streaks, hard and soft-----	22	115	Sand, hard-----	3	265
Gravel-----	13	128	Rock-----	1	266
Sand streaks, hard and loose-----	17	145	Sand, hard-----	3	269
Clay-----	5	150	Sand, firm-----	1	270
Sand-----	20	170	Sand, loose-----	2	272
Clay-----	3	173	Sand, firm-----	3	275
Sand-----	33	206	Clay-----	3	278
Clay-----	4	210	Sand-----	5	283
Sand-----	2	212	Sand, firm with hard streaks-----	22	305
Clay-----	21	233	Clay-----	4	309
Sand, firm and hard streaks-----	7	240	Sand-----	7	316

Well L-49

Owner: A. T. Patterson. Driller: A. D. Killinger.

Surface soil and clay-----	45	45	Sand and gravel, cemented--	16	114
Sand and gravel, salty water-----	46	91	Gravel, loose-----	4	118
Sand and gravel, cemented--	5	96	Sand and gravel, cemented--	17	135
Gravel, loose-----	2	98	Sand, clay and gravel-----	39	174

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well L-49--Continued					
Gravel, fine, loose-----	10	184	Sand and clay streaks-----	18	333
Sand, clay and gravel-----	28	212	Gravel and clay-----	4	337
Clay, pink-----	2	214	Clay, sandy-----	3	340
Clay, sandy streaks-----	36	250	Clay-----	7	347
Clay, yellow-----	10	260	Sand, fine-grained (water)-	6	353
Clay, sandy streaks-----	48	308	Clay, streaky-----	1	354
Clay-----	7	315			

Well L-59

Owner: City of McAllen. Driller: Layne-Texas Co.

Soil-----	6	6	Caliche and clay-----	16	186
Clay, sandy-----	10	16	Sand and caliche-----	8	194
Gravel and clay, packed----	31	47	Sand-----	61	255
Clay-----	29	76	Shale-----	45	300
Gravel and clay, packed----	9	85	Sand-----	114	414
Gravel, loose-----	9	94	Shale, tough-----	30	444
Gravel, large, loose-----	33	127	No record-----	26	470
Clay-----	43	170			

Well L-82

Owner: A. F. Shore. Driller: Arlis Killinger.

Topsoil-----	5	5	Clay and sand streaks-----	20	100
Clay-----	65	70	Gravel, sandy-----	35	135
Sand-----	10	80	Clay-----	15	150

(Continued on next page)



Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well L-82--Continued					
Gravel-----	5	155	Gravel-----	15	275
Clay-----	90	245	Clay and sand-----	4	279
Sand-----	8	253	Sand, hard, loose-----	7	286
Gravel-----	5	258	Gravel-----	19	305
Sand, hard-----	2	260			

Well L-100

Owner: C. E. Schwanz. Driller: E. H. Ray.

Surface soil-----	3	3	Clay-----	2	35
Clay and silt-----	9	12	Sand-----	2	37
Sand-----	21	33	Gravel-----	30	67

Well L-104

Owner: L. M. Bentsen, Sr. Driller: Camlor Well Service.

Surface soil-----	30	30	Shale-----	10	170
Sand, fine-grained-----	30	60	Sand and gravel (water)-----	20	190
Sand and gravel-----	35	95	Sand, broken and shale-----	20	210
Shale-----	20	115	Shale, hard-----	30	240
Sand and gravel-----	45	160			

Well L-106

Owner: H. W. Grover. Driller: Elmer Ray.

Dirt-----	11	11	Clay-----	1	39
Sand, dark-----	27	38	Gravel-----	33	72

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well L-115

Owner: H. P. Peterson. Driller: F. Burrhus.

Clay-----	16	16	Clay-----	13	71
Quicksand-----	42	58	Gravel-----	15	86

Well L-118

Owner: Crystall Waters Swimming Pool. Driller: W. Woods.

Loam, sandy-----	11	11	Sand, gravel, clay-----	6	36
Sand and gravel-----	19	30	Sand and gravel-----	32	68

Well L-121

Owner: D. D. Berry. Driller: D. D. Berry.

Topsoil-----	2	2	Clay-----	1	91
Clay, red-----	18	20	Gravel-----	23	114
Sand, light brown with clay lenses-----	70	90	Sandrock and yellow clay---	1	115

Well L-130

Owner: J. J. Carr. Driller: J. J. Carr.

Clay-----	12	12	Gravel-----	5	60
Clay, sandy-----	6	18	Sand-----	25	85
Quicksand-----	37	55	Sand and gravel-----	15	100

Well M-16

Owner: J. L. DeWitt. Driller: Pat Farmer.

Clay, red-----	27	27	Shale, sandy-----	17	50
Sand-----	6	33	Sand-----	44	94

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well M-16--Continued					
Shale-----	22	116	Gravel-----	38	180
Sand-----	26	142			

Well M-19

Owner: Pat Farmer. Driller: Pat Farmer.

Quicksand-----	20	20	Sand, fine-grained-----	8	124
Shale, red-----	15	35	Gumbo-----	8	132
Clay, red-----	12	47	Shale, gummy-----	7	139
Shale, gummy-----	17	64	Shale, sandy-----	11	150
Gumbo-----	8	72	Sand, coarse-----	5	155
Shale, sandy-----	16	88	Shale, sandy-----	15	170
Gumbo-----	6	94	Sand, red-----	15	185
Shale, sandy-----	14	108	Shale, sandy-----	9	194
Shale, gummy-----	8	116	Sand, fine-grained-----	20	214

Well M-20

Owner: Pat Farmer. Driller: Pat Farmer.

Clay, red-----	10	10	Sand, fine-grained-----	8	104
Quicksand-----	20	30	Shale-----	13	117
Gumbo-----	16	46	Sand, fine-grained (water)-	53	170
Shale-----	14	60	Gravel, fine-----	20	190
Shale, sandy-----	12	72	Gumbo-----	6	196
Shale-----	11	83	Sand-----	8	204
Gumbo-----	13	96			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well M-21					
Owner: Schwartz and Thomas. Driller: Pat Farmer.					
Quicksand-----	20	20	Shale, sandy-----	11	150
Shale, red-----	15	35	Sand, coarse-grained-----	5	155
Clay, red-----	12	47	Shale, sandy-----	15	170
Shale, gummy-----	17	64	Sand, red-----	15	185
Gumbo-----	8	72	Shale, sandy-----	9	194
Shale, sandy-----	16	88	Sand, fine-grained-----	20	214
Gumbo-----	6	94	Gumbo-----	24	238
Shale, sandy-----	14	108	Sand, fine-grained (water)-	26	264
Shale, gummy-----	8	116	Gumbo-----	16	280
Sand, fine-grained-----	8	124	Shale, gummy-----	15	295
Gumbo-----	8	132	Sand-----	18	313
Shale, gummy-----	7	139			

## Well M-22

Owner: Schwartz and Thomas. Driller: Pat Farmer.

Clay, red-----	18	18	Sand-----	20	165
Sand-----	31	49	Gravel-----	30	195
Gumbo-----	20	69	Sand-----	5	200
Shale-----	21	90	Rock-----	3	203
Sand-----	10	100	Sand-----	12	215
Shale-----	17	117	Rock-----	1	216
Shale, sandy-----	28	145	Sand-----	51	267

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well M-35

Owner: H. F. Potts. Driller: A. D. Killinger.

No record-----	103	103	Sand and pea gravel streaks-----	66	191
Sand-----	4	107	Clay-----	20	211
Sand and clay streaks-----	3	110	Sand, fine-grained and shale streaks-----	19	230
Sand-----	5	115	Sand, coarse-grained-----	23	253
Pea gravel and sandstone---	10	125			

Well M-44

Owner: G. A. Bennett. Driller: A & T Drilling Co.

Clay-----	82	82	Clay-----	11	178
Sand-----	24	106	Sand-----	17	195
Clay-----	6	112	Clay-----	15	210
Gravel-----	14	126	Sand-----	84	294
Rock-----	1	127	Gravel-----	15	309
Gravel-----	40	167			

Well M-64

Owner: H. G. Eastham. Driller: A & T Drilling Co.

Sand and shale streaks-----	54	54	Sand-----	15	120
Sand-----	6	60	Shale-----	6	126
Sand and gravel, small-----	7	67	Sand-----	14	140
Shale-----	7	74	Gravel-----	33	173
Sand-----	21	95	Shale-----	17	190
Shale, streaky-----	10	105	Sand-----	58	248

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well M-64--Continued					
Shale-----	22	270	Shale-----	4	416
Shale and sandy shale-----	30	300	Sand and gravel-----	78	494
Sand-----	20	320	Sand, hard and shale-----	21	515
Sand and shale streaks-----	68	388	Shale, sandy-----	19	534
Gravel-----	24	412			

Well M-65

Owner: Sam Weisenbaker. Driller: A & T Driller Co.

Surface soil-----	6	6	Clay-----	32	113
Clay-----	14	20	Sand-----	22	135
Clay and sand streaks-----	22	42	Sand and gravel, fine- grained-----	5	140
Clay-----	35	77	Gravel-----	8	148
Sand-----	4	81	Clay-----	3	151

Well M-73

Owner: City of San Juan. Driller: Layne-Texas Co.

Clay, red-----	18	18	Sand-----	65	312
Clay-----	10	28	Clay-----	10	322
Clay, red-----	2	30	Gumbo-----	11	333
Clay, joint-----	80	110	Sand-----	31	364
Clay, red-----	43	153	Gumbo-----	44	408
Sand-----	63	216	Sand-----	22	430
Clay, soft-----	22	238	Sand and gravel-----	42	472
Clay-----	9	247	Sand-----	10	482

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well M-73--Continued					
Gravel-----	11	493	Gumbo-----	14	716
Gumbo-----	22	515	Rock-----	5	721
Sand-----	22	537	Sand, gravel and boulders--	23	744
Sand and gravel-----	20	557	Sand-----	16	760
Sand-----	10	567	Gumbo-----	39	799
Gravel-----	11	578	Sand-----	11	810
Gumbo-----	121	699	Sand and gravel-----	43	853
Rock-----	3	702	Sand-----	16	869

Well N-4

Owner: George W. Henner. Driller: Virdell Drilling Co.

Surface soil-----	6	6	Clay-----	7	297
Clay, sandy-----	134	140	Sand-----	43	340
Clay-----	60	200	Clay-----	20	360
Sand-----	30	230	Sand-----	20	380
Clay-----	10	240	Clay-----	37	417
Sand, broken-----	50	290			

Well N-30

Owner: City of Edcouch. Driller: Pat Farmer.

Clay, red-----	18	18	Shale, sandy-----	25	138
Sand-----	36	54	Shale-----	47	185
Shale-----	48	102	Shale, sandy-----	15	200
Sand-----	11	113	Sand-----	138	338

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well N-55							
Owner: Hoblitzelle Ranch. Driller: Camlor Well Service.							
Sand-----	16	16	Sand-----	40	635		
Clay-----	39	55	Shale, sticky-----	25	660		
Sand-----	4	59	Sand and gravel-----	111	771		
Clay-----	11	70	Shale-----	21	792		
Sand-----	8	78	Gravel-----	8	800		
Clay, sticky-----	7	85	Shale, hard-----	12	812		
Clay-----	24	109	Sand-----	33	845		
Sand-----	24	133	Shale, sticky-----	2	847		
Clay, hard-----	2	135	Sand-----	5	852		
Sand-----	6	141	Shale, sticky-----	5	857		
Clay and sand-----	2	143	Shale, sandy-----	8	865		
Shale and clay-----	12	155	Shale, sticky-----	2	867		
Sand-----	29	184	Sand-----	2	869		
Gravel-----	21	205	Shale-----	19	888		
Clay-----	50	255	Sand-----	18	906		
Sand-----	80	335	Shale-----	25	931		
Shale-----	52	387	Shale, sticky-----	23	954		
Shale, sticky-----	43	430	Sand and gravel-----	25	979		
Sand-----	21	451	No record-----	2	981		
Clay, sticky-----	58	509	Shale, sticky-----	23	1,004		
Shale, hard-----	43	552	Sand with hard streaks-----	46	1,050		
Shale, sticky-----	43	595	Shale, sticky-----	3	1,053		

(Continued on next page)



Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well N-55--Continued					
Shale-----	2	1,055	Shale-----	6	1,382
Sand-----	48	1,103	Sand and gravel-----	49	1,431
Shale, hard-----	1	1,104	Shale, hard, sandy and boulders-----	22	1,453
Shale, sticky-----	27	1,131	Sand, hard and boulders----	19	1,472
Shale-----	14	1,145	Shale and boulders-----	8	1,480
Sand-----	10	1,155	Sand, hard-----	6	1,486
Shale-----	7	1,162	Shale, sandy and boulders--	9	1,495
Sand and shale-----	46	1,208	Sandrock-----	3	1,498
Sand-----	12	1,220	Sand-----	7	1,505
Shale-----	2	1,222	Sand and boulders-----	15	1,520
Shale, hard-----	30	1,252	Shale, sticky-----	8	1,528
Shale, sandy-----	6	1,258	Sand and boulders-----	2	1,530
Shale and boulders-----	17	1,275	Sand-----	5	1,535
Sand, hard and gravel-----	40	1,315	Sand, hard and boulders----	3	1,538
Shale, sandy and boulders--	5	1,320	Sand-----	2	1,540
Sand-----	17	1,337	Sand with hard streaks-----	5	1,545
Shale, sticky and sand streaks-----	39	1,376			

Well P-3

Owner: Mrs. U. M. Arms. Driller: Elmer Ray.

Topsoil-----	20	20	Clay-----	46	86
Sand-----	2	22	Sand (water)-----	13	99
Clay-----	13	35	Gravel, light-----	7	106
Sand-----	5	40	Gravel, loose-----	20	126

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well P-4

Owner: H. P. Porter. Driller: F. Burrhus.

Clay-----	21	21	Clay-----	4	90
Sand-----	4	25	Gravel-----	6	96
Clay-----	20	45	Sand, clay and sandrock----	10	106
Sand-----	5	50	Gravel-----	2	108
Clay-----	15	65	Sandrock-----	1	109
Sandrock, hard-----	8	73	Gravel-----	2	111
Clay-----	1	74	Sand (water), coarse, black-----	2	113
Sandrock-----	12	86	Sandrock-----	7	120

Well P-6

Owner: Shary Estate. Driller: Bert Killinger.

Silt and sand-----	57	57	Gravel-----	5	94
Gravel, cemented-----	11	68	Shale-----	1	95
Clay-----	8	76	Sandrock-----	1	96
Gravel, sandy-----	7	83	Shale-----	12	108
Sand-----	6	89			

Well P-27

Owner: E. B. Darby. Driller: A & T Drilling Co.

Soil-----	6	6	Sand and caliche-----	7	63
Clay-----	17	23	Clay and caliche-----	10	73
Clay, sandy-----	27	50	Sand-----	3	76
Clay-----	6	56	Sand and gravel-----	8	84

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)		
Well P-27--Continued					
Clay and sand, hard-----	18	102	Clay and gravel-----	3	255
Sand, hard-----	10	112	Gravel, sandy, fine- grained-----	18	273
Clay and sand-----	95	207	Clay, sandy-----	5	278
Gravel, cemented-----	1	208	Clay-----	5	283
Clay-----	3	211	Gravel, sandy-----	2	285
Sand and gravel, hard-----	2	213	Clay-----	58	343
Gravel, cemented-----	1	214	Gravel, hard-----	4	347
Sand-----	6	220	Clay-----	2	349
Clay-----	7	227	Gravel-----	2	351
Gravel-----	5	232	Clay-----	19	370
Clay-----	1	233	Gravel-----	4	374
Gravel-----	10	243	Sand, hard-----	30	404
Gravel, cemented-----	1	244	Clay-----	21	425
Gravel-----	2	246	Sand, hard-----	13	438
Clay-----	6	252	Clay-----	12	450

Well P-36

Owner: Ed Danner. Driller: Arlis Killinger.

Topsoil-----	5	5	Clay-----	3	46
Sand-----	7	12	Clay, silty-----	42	88
Clay-----	13	25	Sand-----	13	101
Sand, silty-----	18	43	Gravel-----	21	122

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well P-39

Owner: Krenmueller Farms. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	20	135
Sand and clay-----	54	60	Sand and gravel-----	19	154
Clay and sand streaks-----	55	115			

Well P-41

Owner: L. G. Nelson. Driller: A & T Drilling Co.

Surface soil-----	5	5	Clay-----	15	75
Sand-----	30	35	Sand-----	10	85
Sand and clay streaks-----	10	45	Gravel-----	14	99
Clay-----	5	50	Clay-----	1	100
Sand-----	10	60			

Well P-47.

Owner: Prudencio Aguirre. Driller: Arlis Killinger.

Topsoil-----	5	5	Clay, silty-----	55	85
Clay, sandy-----	5	10	Sand-----	18	103
Clay-----	20	30	Gravel and clay-----	16	119

Well P-58

Owner: Valley Vitamins, Inc. Driller: David Jones.

Silt and clay, brown-----	14	14	Clay, dry, hard, red-----	25	65
Sand, fine-grained-----	16	30	Sand (water)-----	36	101
Sand, coarse (water)-----	10	40	Gravel (water)-----	18	119

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well P-59

Owner: Valley Vitamins, Inc. Driller: David Jones.

Topsoil and silt-----	15	15	Gravel (water)-----	29	131
Sand (water)-----	10	25	Gravel, flint-----	16	147
Clay, red, hard, dry-----	35	60	Gravel, large-----	39	186
Sand and shale-----	42	102			

Well P-74

Owner: Valley Vitamins, Inc. Driller: David Jones.

Topsoil-----	4	4	Gumbo, black-----	20	90
Clay, red-----	61	65	Gravel (water)-----	37	127
Silt-----	5	70	Clay, red-----	9	136

Well P-78

Owner: Hugh Harrington. Driller: Arlis Killinger.

Surface soil-----	12	12	Clay-----	15	210
Sand-----	6	18	Sand (good)-----	30	240
Clay-----	12	30	Clay-----	48	288
Sand-----	20	50	Sand (good)-----	12	300
Silt-----	50	100	Clay-----	3	303
Gravel, hard streaks-----	18	118	Sand-----	11	314
Gravel, cemented-----	2	120	Clay-----	4	318
Clay and sand-----	22	142	Gravel, sandy-----	7	325
Clay-----	26	168	Sand, firm-----	26	351
Sand and clay-----	27	195	Sand-----	9	360

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well P-78--Continued					
Clay-----	13	373	Sand-----	4	450
Sand-----	42	415	Clay-----	5	455
Sand, hard, loose-----	20	435	Sand-----	2	457
Clay-----	11	446			

Well P-87

Owner: Shary Estate. Driller: Bert Killinger.

Surface soil-----	20	20	Sand-----	12	62
Sand-----	10	30	Gravel-----	10	72
Clay-----	20	50	Clay and gravel-----	3	75

Well P-89

Owner: E. Welthal Estate. Driller: A. D. Killinger.

Surface soil-----	10	10	Sandrock, hard-----	27	123
Clay and silt-----	82	92	Conglomerate-----	33	156
Gravel-----	4	96	Sand, firm (water)-----	20	176

Well R-16

Owner: Doffing Estate. Driller: A & T Drilling Co.

Surface soil and clay-----	40	40	Sand, hard and shale-----	80	380
Sand and clay streaks-----	87	127	Sand, hard-----	10	390
Gravel and sand-----	21	148	Sand and gravel-----	56	446
Sand, gravel, shale-----	30	178	Shale, streaky-----	4	450
Shale, streaky-----	82	260	No record-----	40	490
Sand, hard and shale streaks-----	40	300			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well R-17

Owner: Maurice Bell. Driller: Pat Farmer.

Gumbo-----	40	40	Rock-----	1	245
Sand-----	53	93	Gumbo-----	28	273
Shale, sandy-----	21	114	Shale-----	31	304
Shale-----	28	142	Sand-----	46	350
Gumbo-----	20	162	Gumbo-----	43	393
Sand-----	28	190	Rock-----	2	395
Gravel-----	30	220	Sand-----	23	418
Gumbo-----	7	227	Gravel-----	6	424
Gravel-----	15	242	Sand-----	26	450
Gumbo-----	2	244	Gravel-----	11	461

Well R-28

Owner: Hubert Drawe. Driller: Arlis Killinger.

Clay-----	50	50	Clay, silty-----	7	119
Sand-----	27	77	Sand-----	3	122
Clay-----	13	90	Gravel-----	13	135
Sand-----	22	112			

Well R-33

Owner: Frank Seviere. Driller: Arlis Killinger.

Clay-----	98	98	Gravel-----	29	145
Sand-----	5	103	Hard streaks-----	1	146
Gravel, sandy-----	13	116	Clay-----	10	156

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well R-35

Owner: Thomas Morin. Driller: Arlis Killinger.

Clay, silty and sand streaks-----	70	70	Gravel, sandy-----	21	145
Sand-----	18	88	Conglomerate-----	4	149
Gravel, fine, sandy-----	12	100	Gravel-----	3	152
Gravel and sandy streaks---	16	116	Sand-----	2	154
Sand and clay streaks-----	8	124	Gravel-----	8	162

Well R-53

Owner: Frank Schuster. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	15	70
Sand-----	9	15	Sand-----	40	110
Clay-----	30	45	Gravel-----	31	141
Sand-----	10	55			

Well R-58

Owner: James Morin. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	55	100
Clay-----	29	35	Sand-----	20	120
Sand-----	10	45	Gravel-----	26	146

Well R-62

Owner: Newell Waters. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand-----	18	38
Clay-----	14	20	Clay-----	47	85

(Continued on next page)



Table 5.--Drillers' logs of wells in Hidalgo County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well R-62--Continued					
Clay and sand streaks-----	18	103	Sand and gravel, fine-----	9	129
Sand-----	17	120	Gravel-----	11	140

Well R-66

Owner: Quinn McManus. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	7	147
Clay and sand streaks-----	108	114	Sand-----	4	151
Sand-----	10	124	Sand and gravel-----	19	170
Sand and gravel-----	16	140			

Well S-4

Owner: F. Haza. Driller: A. D. Killinger.

Topsoil-----	15	15	Sand-----	160	240
Subsoil-----	55	70	Gravel-----	25	265
Clay-----	10	80			

Well S-5

Owner: Texas A & M Experimental Station. Driller: Layne-Texas Co.

Soil, brown, sandy-----	4	4	Sand and gravel-----	14	184
Clay, yellow, and caliche--	89	93	Clay, pink and sand and gravel layers-----	58	242
Clay, yellow, and layers of sand, brown-----	25	118	Sand, brown-----	16	258
Sand, brown-----	7	125	Pea gravel-----	13	271
Shale, pink, brown with hard layers-----	23	148	Clay, pink and gray-----	19	290
Shale, brown, sandy-----	22	170	Sand, brown, hard-----	10	300

(Continued on next page)

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well S-5--Continued					
Clay, gray-----	19	319	Sand, fine-grained, gray and clay breaks-----	18	500
Clay, sandy-----	11	330	Sand, fine-grained, gray---	47	547
Sand, gray and clay streaks-----	13	343	Clay, gray and sand layers-	15	562
Sand, gray-----	29	372	Sand, fine-grained, gray and gravel-----	20	282
Clay, pink and gray with sand streaks-----	70	442	Clay, gray-----	9	591
Sand, fine-grained, gray---	40	482	Sand, fine-grained, gray---	11	602
			Clay, gray-----	9	611

Well S-8

Owner: A. V. Edwards. Driller: A & T Drilling Co.

Surface soil-----	6	6	Sand and gravel-----	10	200
Clay-----	24	30	Clay-----	25	225
Sand-----	60	90	Sand and gravel-----	54	279
Clay and sand-----	100	190	Clay-----	1	280

Well S-11

Owner: Baptist Foundation of Texas. Driller: A & T Drilling Co.

Surface soil-----	6	6	Clay-----	13	213
Clay-----	17	23	Gravel, small and sand-----	30	243
Sand and clay streaks-----	57	80	Clay-----	7	250
Clay-----	45	125	Sand and clay-----	15	265
Sand-----	13	138	Sand and gravel-----	7	272
Gravel-----	2	140	Gravel-----	24	296
Sand and clay streaks-----	60	200			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well S-27

Owner: Duane Miller. Driller: A & T Drilling Co.

Surface soil-----	6	6	Gravel, fine-----	5	177
Clay and sand streaks-----	49	55	Gravel-----	19	196
Sand and clay-----	117	172			

Well S-31

Owner: D. Schwartz. Driller: Camlor Well Service.

Surface soil-----	8	8	Sand-----	10	93
Clay-----	16	24	Shale, sticky-----	23	116
Sand-----	31	55	Sand and gravel-----	28	144
Clay-----	28	83	Gravel-----	15	159

Well S-32

Owner: D. Schwartz. Driller: Camlor Well Service.

Surface soil and clay-----	16	16	Clay and caliche-----	6	101
Sand-----	5	21	Sand-----	25	126
Clay-----	71	92	Gravel-----	29	155
Sand-----	3	95			

Well S-37

Owner: D. Schwartz. Driller: Camlor Well Service.

Surface soil and clay-----	16	16	Clay-----	29	92
Clay-----	13	29	Sand-----	13	105
Sand-----	13	42	Sand and gravel-----	21	126
Clay-----	19	61	Gravel, hard-----	31	157
Sand, hard-----	2	63	Shale, sandy-----	17	174

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well S-40

Owner: D. Schwartz. Driller: Camlor Well Service.

Surface soil and clay-----	32	32	Clay and caliche-----	10	109
Sand-----	19	51	Sand-----	2	111
Clay-----	12	63	Clay and caliche-----	17	128
Sand-----	14	77	Sand and gravel-----	6	134
Clay and caliche-----	11	88	Gravel, large-----	21	155
Sand-----	11	99			

Well S-42

Owner: Art Beckwith. Driller: L. Riemenschneider.

Alluvium-----	130	130	Sandrock-----	12	178
Sand and gravel-----	5	135	Clay-----	45	223
Gravel-----	15	150	Sand and gravel-----	27	250
Lime, white-----	2	152	Clay-----	29	279
Sandrock-----	8	160	Sandrock-----	40	319
Gravel-----	6	166			

Well S-44

Owner: C. E. Malone. Driller: Gene Liberty.

Topsoil and clay-----	30	30	Shale-----	25	235
Sand-----	136	166	Gravel-----	29	264
Sand, hard-----	44	210			

Table 5.--Drillers' logs of wells in Hidalgo County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well S-57

Owner: Homecourt and Fitzgerald. Driller: A & T Drilling Co.

Sand-----	35	35	Sand and gravel-----	18	148
Sand and clay-----	75	110	Clay-----	62	210
Sand-----	20	130	Sand and gravel-----	35	245

Well S-60

Owner: Clayton Malone. Driller: Bob Johnson.

Alluvium-----	32	32	Gravel-----	23	171
Packsand-----	108	140	Clay, yellow-----	9	180
Packsand, hard-----	8	148			

Table 5.--Drillers' logs of wells in Starr County, Texas

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well A-2

Owner: H. P. Guerra. Driller: L. A. Fears.

Caliche-----	21	21	Clay, red-----	32	202
Clay, red-----	27	48	Sand-----	15	217
Clay, blue-----	122	170			

Well A-3

Owner: Antioco Munoz. Driller: H. L. Staggs.

Caliche-----	6	6	Sand-----	34	214
Clay, sandy-----	174	180			

Well A-10

Owner: Earagosa Salinas. Driller: L. A. Fears.

Surface soil-----	5	5	Sandstone-----	2	164
Clay, red and yellow-----	91	96	Sand, hard-----	6	170
Shale, sandy-----	3	99	Clay, blue-----	4	174
Clay, blue-----	60	159	Clay and rock-----	3	177
Clay, blue, and streaks of rock-----	3	162	Sand and rock-----	8	185

Well A-17

Owner: J. O. Clark Fuel Co. Driller: L. A. Fears.

Surface soil-----	5	5	Clay, blue, sandy-----	93	441
Clay, red-----	43	48	Rock and clay-----	41	482
Clay, blue, sandy-----	8	56	Shale-----	12	494
Clay, blue with hard streaks-----	292	348	Sand-----	12	506

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Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well A-17--Continued

Shale-----	9	515	Shale, hard-----	6	527
Sand and rock-----	6	521	Sand, water-----	13	540

Well A-20

Owner: Salvadore Salinas. Driller: L. A. Fears.

Surface soil-----	11	11	Shale, streaked-----	143	220
Clay-----	34	45	Sand, water-----	18	238
Shale, sandy-----	32	77			

Well B-10

Owner: Camilio Gonzalez. Driller: Antonio Saenz.

Sand-----	10	10	Clay, red-----	60	150
Caliche-----	40	50	Rock-----	50	200
Gravel-----	8	58	Clay, red-----	25	225
Rock-----	22	80	Sand, water-----	5	230
Sand-----	10	90	Clay, red-----	20	250

Well B-17

Owner: Pedro A. Saenz. Driller: Fred Fielder.

Soil-----	1	1	Gravel-----	40	340
Caliche-----	39	40	Clay-----	80	420
Clay-----	260	300	Sand, water-----	42	462

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well C-1

Owner: M. M. Guerrero. Driller: Sun Oil Co.

Caliche-----	65	65	Sand-----	30	230
Clay, sandy with gravel----	66	131	Shale, sand streaks-----	212	442
Shale, sand streaks-----	69	200	Shale, sandy-----	258	700

Well C-3

Owner: M. M. Guerrero. Driller: L. A. Fears.

Soil-----	4	4	Rock-----	3	83
Clay and boulders-----	6	10	Clay, yellow-----	3	86
Gravel-----	2	12	Clay, yellow and rock-----	4	90
Clay, yellow-----	52	64	Clay, blue-----	188	278
Rock-----	4	68	Clay, red-----	19	297
Clay, blue-----	10	78	Clay, hard, blue-----	5	302
Sand, hard-----	2	80	Sand, water-----	6	308

Well C-7

Owner: R. T. Margo. Driller: A. L. Herschap.

Soil-----	5	5	Sand, gray-----	28	306
Sand, gray-----	63	68	Shale, brown-----	274	580
Shale, brown-----	210	278	Sand, water-----	85	665

Well C-16

Owner: Arcadio Rodriguez. Driller: Fred Fielder.

Sand-----	8	8	Clay-----	182	200
Caliche-----	10	18	Clay, sandy-----	20	220

(Continued on next page)



Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well C-16--Continued					
Clay, red-----	80	300	Clay, red-----	5	335
Gravel-----	30	330	Sand-----	47	382

Well C-17

Owner: Ignacio Trevino. Driller: Antonio Saenz.

Soil-----	8	8	Clay, red-----	103	340
Caliche-----	77	85	Sandstone-----	10	350
Clay, red-----	90	175	Clay, red-----	30	380
Clay, sandy-----	62	237	Sand, water-----	30	410

Well C-21

Owner: Mrs. S. C. Pena. Driller: L. A. Fears.

Soil-----	7	7	Clay, red, and rock-----	16	228
Caliche and clay-----	9	16	Clay, sandy-----	6	234
Caliche-----	58	74	Sand, clay streaks-----	12	246
Clay, red, and caliche-----	11	85	Sand, water-----	5	251
Clay, red-----	127	212			

Well D-7

Owner: Emilio Trevino. Driller: Eugene Garner.

Soil-----	3	3	Sand-----	6	335
Sand-----	17	20	Sand and shale-----	20	355
Sand and caliche-----	65	85	Shale, sticky-----	19	374
Shale, sandy-----	8	93	Sand-----	33	407
Shale-----	236	329			

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well D-17

Owner: E. A. Montalvo. Driller: A. H. Masiran.

Soil, surface-----	3	3	Shale-----	56	629
Caliche-----	84	87	Sand, hard-----	20	649
Sand, hard-----	14	101	Rock-----	1	650
Shale and boulders-----	115	216	Shale-----	18	668
Sand, hard-----	16	232	Sand and boulders-----	36	704
Shale-----	76	308	Shale-----	3	707
Sand, soft-----	24	332	Sand-----	7	714
Shale-----	19	351	Shale-----	2	716
Sand, soft-----	25	376	Sand, hard-----	29	745
Shale-----	10	386	Shale-----	18	763
Sand and boulders-----	34	420	Sand-----	31	794
Shale-----	27	447	Shale-----	10	804
Sand, hard-----	38	485	Sand, hard-----	36	840
Shale-----	4	489	Shale-----	44	884
Sand, hard streaks-----	28	517	Sand-----	42	926
Shale-----	53	570	Shale-----	1	927
Sand-----	3	573			

Well D-19

Owner: San Isidro School District. Driller: Pursley & Sons.

Soil, surface-----	9	9	Sand-----	35	138
Caliche-----	80	89	Shale, sandy-----	216	354
Caliche, sandy-----	14	103	Sand-----	15	369

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well D-19--Continued							
Shale-----	33	402	Shale-----	16	562		
Sand-----	56	458	Sand-----	139	701		
Shale-----	59	517	Shale-----	4	705		
Sand-----	8	525	Sand-----	110	815		
Shale-----	8	533	Shale, sandy-----	8	823		
Sand-----	13	546					

Well D-24

Owner: Humble Oil and Refining Co. Driller: Pursley and Sons.

Soil-----	5	5	Shale-----	67	463		
Caliche-----	31	36	Sand, hard, streaky-----	52	515		
Sand and caliche-----	38	74	Sand-----	33	548		
Shale, streaky-----	77	151	Shale, streaky-----	8	556		
Sand-----	12	163	Sand, hard-----	53	609		
Shale-----	78	241	Shale, streaky-----	75	684		
Sand-----	49	290	Sand, hard-----	44	728		
Shale-----	37	327	Shale-----	21	749		
Sand-----	25	352	Sand, firm-----	106	855		
Shale-----	13	365	Shale, sandy-----	34	889		
Sand, hard-----	31	396					

Well D-49

Owner: M. J. Rodriguez. Driller: L. A. Fears.

Soil-----	6	6	Caliche-----	77	83		
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Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well D-49--Continued					
Clay, red-----	43	126	Clay, sticky-----	21	259
Clay, red with rock-----	12	138	Clay, sandy-----	23	282
Clay, red-----	78	216	Sand, water-----	25	307
Clay, sandy-----	22	238			

Well D-50

Owner: M. J. Rodriguez. Driller: J. R. Johnson.

Soil, red, sandy-----	2	2	Shale, blue, sticky-----	36	608
Caliche, white-----	8	10	Shale, yellow, sandy-----	52	660
Caliche, yellow, hard-----	50	60	Sand, yellow and shale-----	118	778
Shale, red, and lime-----	70	130	Sand, green, hard-----	24	802
Sandstone, hard-----	39	169	Sand, yellow, and shale-----	58	860
Shale, red-----	59	228	Shale, yellow-----	60	920
Shale, blue and sandstone--	204	432	Sand, yellow, fine-grained-	30	950
Shale, blue and lime-----	86	518	Clay, yellow, and sand-----	12	962
Sand, bluish-gray-----	54	572			

Well D-51

Owner: M. J. Rodriguez. Driller: L. A. Fears.

Soil-----	10	10	Sand, fine-grained-----	17	240
Caliche-----	48	58	Clay, red-----	36	276
Clay, red-----	158	216	Sand, water-----	62	338
Clay, red, and sand-----	7	223			

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well E-11

Owner: Ubaldo Hinojosa. Driller: Gil Hinojosa.

Rock-----	75	75	Shale-----	40	215
Shale-----	70	145	Shale, sandy-----	33	248
Clay-----	30	175	Sand-----	2	250

Well E-13

Owner: L. J. Ruthven. Driller: L. A. Fears.

Soil-----	5	5	Clay, sandy-----	18	167
Clay, sandy and caliche----	9	14	Clay, sticky-----	17	184
Clay, sandy and hard rock--	22	36	Clay, hard sandy-----	10	194
Rock, streaky clay-----	32	68	Rock-----	9	203
Clay, hard, sandy-----	6	74	Clay, sandy with rock streaks-----	31	234
Clay, blue, hard-----	69	143	Clay, blue-----	34	268
Rock-----	6	149			

Well F-1

Owner: Salvadore Salinas. Driller: L. A. Fears.

Soil-----	6	6	Clay, hard, red-----	21	158
Clay, mixed-----	52	58	Clay, blue-----	113	271
Sandstone-----	11	69	Clay, blue and rock-----	47	318
Clay, hard, sandy-----	12	81	Rock-----	3	321
Rock and clay-----	8	89	Sand, water-----	19	340
Clay, hard, blue-----	48	137			

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well F-4

Owner: Ignacio Gutierrez. Driller: L. A. Fears.

Clay, sandy-----	20	20	Sand, hard-----	9	190
Clay, sandy and rock-----	55	75	Rock-----	4	194
Clay, blue, sandy-----	48	123	Sand-----	2	196
Clay, blue and rock-----	4	127	Rock-----	2	198
Sand, hard, and rock-----	13	140	Sand-----	28	226
Clay, sandy-----	41	181	Clay, sandy-----	6	232

Well F-9

Owner: Faustino Ramos. Driller: A. L. Herschap.

Sand, hard, gray-----	60	60	Sand, gray, soft-----	32	258
Shale, brown-----	166	226			

Well F-10

Owner: Juan Ramos. Driller: A. L. Herschap.

Sand, gray, soft-----	10	10	Shale, brown-----	53	108
Caliche-----	45	55	Sand, gray, soft-----	21	129

Well F-12

Owner: Nicasio Guerra. Driller: A. L. Herschap.

Sand, gray-----	60	60	Shale, green-----	80	340
Shale, brown-----	200	260	Sand, gray-----	41	381

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well F-13

Owner: Jesus Villareal. Driller: L. A. Fears.

Caliche-----	40	40	Clay, sandy-----	14	292
Clay, red, and boulders----	16	56	Sand, water -----	24	316
Clay, hard, red-----	76	132	Clay, red-----	2	318
Clay, sticky-----	146	278			

Well F-21

Owner: Enrique Gonzalez. Driller: Dan Tarbutton.

Clay and gravel-----	6	6	Shale, blue-----	49	153
Sand-----	6	12	Sand-----	33	186
Sand and gravel-----	22	34	Shale, blue-----	18	204
Shale with caliche streaks-	70	104			

Well F-22

Owner: Pedro Olivarez. Driller: L. A. Fears.

Soil-----	5	5	Clay, red-----	8	106
Clay, sandy-----	7	12	Clay, blue-----	12	118
Clay, hard, sandy-----	15	27	Clay, red-----	26	144
Clay, blue with sandstone--	55	82	Sand, hard-----	11	155
Clay, hard, blue-----	16	98			

Well G-8

Owner: Pedro Salinas. Driller: A. L. Herschap.

Caliche-----	65	65	Shale, brown-----	207	372
Sand and gravel-----	100	165	Sand, gray-----	24	396

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well G-15

Owner: Raphaela Lopez. Driller: L. A. Fears.

Soil-----	5	5	Clay, sandy-----	24	227
Gravel-----	7	12	Sand-----	3	230
Caliche, sandy-----	2	14	Rock-----	1	231
Caliche, hard, and rock----	56	70	Sand-----	2	233
Clay, hard, red-----	120	190	Rock-----	1	234
Clay, soft, pink-----	13	203	Sand-----	9	243

Well G-16

Owner: Horacio Saldana. Driller: L. A. Fears.

Soil-----	7	7	Sand-----	4	285
Caliche, sandy-----	4	11	Clay, red-----	9	294
Caliche-----	32	43	Rock-----	1	295
Clay, red-----	238	281	Sand, clay streaks-----	13	308

Well G-21

Owner: Mrs. Edna Schwartz. Driller: L. A. Fears.

Soil-----	4	4	Sand, fine-grained-----	2	86
Caliche-----	11	15	Clay, red, and rock-----	62	148
Clay, red-----	18	33	Clay, red-----	191	339
Sand, hard, and rock-----	16	49	Sand and ash, sandy-----	43	382
Clay, red, and rock-----	35	84	Ash, sandy, and clay-----	153	535



Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well H-1

Owner: Cecilia S. Alaniz. Driller: Antonio Saenz.

Soil-----	8	8	Clay and caliche-----	30	200
Caliche-----	22	30	Sand and rock-----	40	240
Clay, red-----	140	170	Sand, water-----	20	260

Well H-5

Owner: Cruz Saenz. Driller: Fred Fielder.

Clay-----	20	20	Shell-----	20	210
Caliche-----	90	110	Clay-----	20	230
Clay-----	20	130	Shell-----	20	250
Clay, sandy-----	20	150	Sand and shell-----	20	270
Sand-----	20	170	Clay-----	40	310
Sand and shells-----	20	190	Sand-----	65	375

Well H-12

Owner: Rene Solis. Driller: L. A. Fears.

Sand-----	5	5	Clay, red, sticky-----	80	144
Clay, sandy-----	3	8	Clay, red, limestone streaks-----	33	177
Clay, sandy, and caliche---	2	10	Ash, sandy-----	19	196
Caliche-----	14	24	Ash, sandy, sand streaks---	5	201
Clay, red-----	11	35	Sand, limestone streaks----	15	216
Clay, red, soft-----	21	56			
Clay, red, limestone streaks-----	8	64			

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well H-13

Owner: Librado Garza. Driller: L. A. Fears.

Sand-----	8	8	Clay, caliche streaks-----	9	96
Caliche, sandy-----	4	12	Clay, red-----	127	223
Caliche-----	22	34	Clay, pink, sandy-----	28	251
Clay, red, caliche streaks-	11	45	Ash, sandy and clay-----	21	272
Clay, red-----	8	53	Sand-----	7	279
Clay, red, caliche streaks-	23	76	Clay, sticky-----	3	282
Clay, red-----	11	87			

Well H-15

Owner: Santiago S. Valverde. Driller: L. A. Fears.

Sand-----	8	8	Clay, pink and limestone---	17	235
Caliche, sandy-----	4	12	Clay, red, sticky-----	17	252
Caliche, soft-----	29	41	Clay, sandy-----	32	284
Caliche, hard-----	19	60	Clay, sandy, and limestone-	3	287
Clay, red-----	8	68	Ash, sandy, and sand-----	24	311
Clay, red, sticky-----	150	218			

Well H-22

Owner: F. A. Garza. Driller: L. A. Fears.

Sand-----	8	8	Clay, red, sticky-----	198	234
Caliche, sandy-----	6	14	Clay, red and limestone----	11	245
Caliche-----	8	22	Clay, sandy and limestone--	7	252
Clay, red, and caliche----	14	36	Ash, sandy, and clay-----	12	264

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)		Depth (feet)		Thickness (feet)		Depth (feet)	
Well H-22--Continued							
Sand-----	2	266	Clay-----	5	304		
Ash, sandy-----	11	277	Rock, broken, sandy-----	11	315		
Clay, sandy and limestone--	21	298	Clay, red, sticky-----	3	318		
Rock-----	1	299					

Well H-26

Owner: Felix F. Martinez. Driller: Antonio Saenz.

Soil-----	8	8	Rock-----	18	260		
Caliche-----	42	50	Clay-----	52	312		
Clay, red-----	135	185	Rock-----	12	324		
Rock, sandy-----	15	200	Sand, water-----	26	350		
Clay, red-----	42	242					

Well H-29

Owner: Sun Oil Co. Driller: Sun Oil Co.

Sand, brown-----	3	3	Clay, yellow and shells----	30	300		
Caliche, sandy-----	72	75	Clay, yellow-----	31	331		
Caliche-----	55	130	Sand, water-----	2	333		
Clay, yellow-----	140	270	Shells, gray-----	2	335		

Well H-34

Owner: Liberato Barrera. Driller: L. A. Fears.

Soil-----	7	7	Clay, red and rock-----	33	190		
Caliche-----	41	48	Clay, red-----	80	270		
Clay, red-----	109	157	Sand-----	11	281		

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well H-48

Owner: D. W. Cowan. Driller: Arthur Erdmann.

Soil-----	6	6	Shale, pink, sticky-----	75	265
Caliche-----	19	25	Shale and boulders-----	20	285
Shale, pink-----	160	185	Rock, hard-----	2	287
Sand, dry-----	5	190	Sand and boulders-----	29	316

Well J-3

Owner: Sun Oil Co. Driller: Layne-Texas Co.

Soil-----	5	5	Shale, hard, gray-----	14	578
Caliche-----	18	23	Sand-----	42	620
Sand, pink and caliche-----	60	83	Shale, hard, yellow-----	11	631
Shale, red-----	115	198	Shale-----	20	651
Shale, red and caliche-----	33	231	Sand-----	20	671
Shale, sandy-----	139	370	Shale, sandy-----	15	686
Sand-----	30	400	Sand-----	85	771
Shale, rock-----	111	511	Shale-----	49	820
Shale, sandy-----	19	530	Shale, sandy-----	30	850
Shale, hard, red-----	23	553	Shale-----	2	852
Sand, hard-----	11	564			

Well J-4

Owner: Sun Oil Co. Driller: Layne-Texas Co.

Soil-----	6	6	Shale, red-----	71	240
Caliche-----	163	169	Shale, soft, yellow-----	19	259

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well J-4--Continued					
Shale, hard, yellow-----	42	301	Shale-----	47	631
Shale and rock-----	6	307	Shale, hard-----	49	680
Shale, hard-----	24	331	Shale, sandy-----	96	776
Shale-----	160	491	Shale, hard-----	95	871
Shale, sandy-----	38	529	Shale, hard, red-----	40	911
Shale, hard, gray, sandy---	55	584			

Well J-5

Owner: Continental Oil Co. Driller: K & S Construction Co.

Soil, sandy-----	4	4	Sand, very fine-grained----	12	604
Caliche-----	26	30	Shale, hard-----	11	615
Caliche, rocky-----	33	63	Sand, yellow, fine-grained-	3	618
Clay, hard, sticky-----	77	140	Shale, sandy-----	25	643
Shale, hard, sandy-----	52	192	Sand, fine-grained-----	11	654
Clay, sandy-----	20	212	Shale, sandy-----	5	659
Clay, hard, sticky-----	42	254	Sand, fine-grained-----	13	672
Clay, sandy-----	91	345	Shale, sandy-----	25	697
Shale-----	83	428	Sand, fine-grained-----	15	712
Sand, fine-grained-----	41	469	Shale-----	19	731
Clay, sandy-----	32	501	Sand, fine-grained-----	78	809
Shale, hard-----	30	531	Shale, sandy-----	18	827
Clay, sandy-----	16	547	Sand, fine-grained-----	32	859
Sand, fine-grained-----	23	570	Shale, hard-----	2	861
Clay, sandy-----	10	580	Sand, fine-grained-----	9	870
Sand, fine-grained-----	12	592	Shale, hard-----	5	875

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well J-23

Owner: Sun Oil Co. Driller: Sun Oil Co.

Caliche-----	40	40	Sand, hard-----	140	780
Ash, red, sandy-----	45	85	Sand, water-----	55	835
Shale, sandy-----	380	465	Sand, hard-----	40	875
Shale and sand-----	110	575	Sand, water-----	14	889
Sand, water-----	65	640			

Well J-24

Owner: Sun Oil Co. Driller: A. H. Masiran.

Caliche and shale-----	119	119	Shale-----	2	749
Shale, hard-----	207	326	Sand, hard-----	17	766
Sand-----	5	331	Shale, sandy-----	12	778
Shale-----	238	569	Sand, hard streaks-----	12	790
Sand-----	45	614	Shale-----	47	837
Shale-----	15	629	Shale and sand-----	18	855
Sand-----	29	658	Shale and sandy rock-----	9	864
Shale-----	36	694	Rock, sand-----	28	892
Sand, water-----	53	747	Shale-----	3	895

Well J-25

Owner: Sun Oil Co. Driller: Sun Oil Co.

Caliche-----	187	187	Shale-----	177	447
Shale-----	78	265	Sand-----	8	455
Sand-----	5	270	Shale-----	134	589

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well J-25--Continued					
Sand-----	21	610	Sand-----	60	760
Shale-----	38	648	Shale-----	62	822
Sand-----	8	656	Sand-----	32	854
Shale-----	44	700	Sand and shale-----	48	902

Well J-39

Owner: T. W. Lee. Driller: Pursley & Sons.

Soil-----	189	189	Shale, sand streaks-----	20	619
Sand-----	22	211	Shale, streaky-----	24	643
Shale-----	40	251	Sand-----	14	657
Sand-----	63	314	Shale, sandy-----	6	663
Shale-----	29	343	Sand-----	4	667
Sand, hard-----	60	403	Shale, streaky-----	2	669
Sand, hard streaks-----	39	442	Sand-----	34	703
Shale, streaky-----	80	522	Shale, sandy-----	23	726
Sand, hard-----	45	567	Sand-----	72	798
Shale-----	7	574	Shale-----	25	823
Sand, hard-----	25	599			

Well J-42

Owner: Sun Oil Co. Driller: Pursley Drilling Co.

Surface soil-----	2	2	Shale, sticky-----	52	123
Caliche-----	51	53	Shale, sandy-----	29	152
Caliche, shaly-----	18	71	Sand-----	29	181

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well J-42--Continued					
Shale, sticky-----	78	259	Shale-----	41	573
Sand-----	13	272	Sand, firm-----	45	618
Shale-----	9	281	Shale, streaks, hard-----	1	619
Sand, tight-----	66	347	Sand, firm-----	70	689
Shale-----	34	381	Sand and shale streaks-----	14	703
Sand-----	42	423	Sand-----	24	727
Shale, sticky-----	24	447	Shale-----	18	745
Sand-----	24	471	Sand-----	50	795
Shale, sticky-----	40	511	Shale, sandy-----	8	803
Sand-----	21	532	Sand-----	18	821

## Well J-43

Owner: Sun Oil Co. Driller: Pursley Drilling Co.

Surface soil-----	2	2	Sand-----	23	423
Caliche-----	53	55	Shale, sticky-----	27	450
Caliche, shaly-----	20	75	Sand-----	16	466
Shale, sticky-----	55	130	Shale, sticky-----	45	511
Shale, sandy-----	24	154	Sand-----	21	532
Sand-----	31	185	Shale-----	34	566
Shale, sticky-----	85	270	Sand-----	107	673
Sand-----	8	278	Shale-----	32	705
Sand, tight-----	72	350	Sand, firm, good-----	78	783
Shale-----	50	400	Shale-----	28	811



Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well K-9

Owner: Nelson Parkhill. Driller: Bert Killinger.

Soil-----	2	2	Gravel-----	11	55
Silt-----	42	44			

Well K-10

Owner: Nelson Parkhill. Driller: Arlis Killinger.

River silt-----	44	44	Sandrock, hard-----	1	53
Gravel-----	8	52	Clay, blue-----	5	58

Well L-4

Owner: M. M. Guerrero. Driller: L. A. Fears.

Soil-----	4	4	Clay, yellow-----	3	86
Clay, red, and boulders----	6	10	Sand, hard, clay streaks---	4	90
Gravel-----	2	12	Clay, hard, blue, rock		
Clay, yellow-----	52	64	streaks-----	188	278
Clay, sandy, blue-----	4	68	Clay, red-----	19	297
Clay, blue-----	10	78	Clay, hard, blue-----	5	302
Sand, fine-grained, blue---	2	80	Sand, blue-----	6	308
Rock-----	3	83	Clay, blue-----	10	318

Well L-14

Owner: Manuel Munoz. Driller: L. A. Fears.

Caliche-----	6	6	Clay, blue-----	21	43
Gravel-----	13	19	Clay, red-----	7	50
Clay, mixed-----	3	22	Clay, blue-----	4	54

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well L-14--Continued					
Clay, mixed, rock streaks--	26	80	Clay, soft, mixed-----	5	125
Clay, red-----	6	86	Clay, blue, rock streaks---	15	140
Clay, blue-----	6	92	Clay, mixed-----	50	190
Clay, mixed-----	12	104	Sand-----	14	204
Clay, red-----	16	120	Clay-----	2	206

Well L-17

Owner: Manuela Garza. Driller: Bill Carney.

Silt-----	17	17	Shale, blue-----	2	40
Sand-----	15	32	Sandrock, hard-----	25	65
Gravel-----	6	38	Shale-----	35	100

Well M-15

Owner: George Decker. Driller: L. A. Fears.

Caliche, hard-----	6	6	Clay, blue-----	138	219
Caliche, soft-----	75	81	(Dry well)		

Well M-19

Owner: Florentino Barrera. Driller: L. A. Fears.

Caliche-----	36	36	Sand-----	15	179
Clay, red-----	128	164	Clay, red-----	3	182

Well M-25

Owner: Ismeal Salinas. Driller: L. A. Fears.

Caliche-----	7	7	Clay, yellow-----	23	30
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Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well M-25--Continued

Caliche-----	6	36	Caliche, sandy-----	73	120
Sand and gravel-----	11	47			

Well M-33

Owner: Garciasville School District. Driller: Pursley & Sons.

Soil-----	27	27	Sand, shale streaks-----	35	272
Gravel-----	9	36	Shale, sandy-----	223	495
Shale, streaky-----	122	158	Shale, streaky-----	56	551
Sand-----	19	177	Shale, blue, and sand-----	121	672
Shale, streaky-----	27	204	Sand, hard-----	34	706
Sand, fine-grained-----	23	227	Shale-----	28	734
Shale, sandy-----	10	237			

Well M-36

Owner: J. D. Brock. Driller: Pursley & Sons.

Soil-----	1	1	Sand-----	29	498
Gravel-----	12	13	Shale-----	90	588
Caliche and shale-----	45	58	Sand-----	6	594
Shale, blue-----	264	322	Shale, sandy-----	43	637
Sand, hard-----	33	355	Sand, hard-----	4	641
Shale, streaky-----	18	373	Shale, sandy-----	16	657
Sand, shale streaks-----	48	421	Sand-----	40	697
Rock, sandy, hard-----	4	425	Shale, streaky-----	12	709
Shale-----	44	469	Shale, sandy-----	77	786

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well M-36--Continued					
Sand-----	9	795	Sand-----	10	1,443
Shale, green, streaky-----	30	825	Shale, sandy-----	49	1,492
Shale, sandy-----	4	829	Sand-----	34	1,526
Shale, streaky-----	15	844	Shale, sandy-----	5	1,531
Shale, sandy-----	10	854	Sand-----	38	1,569
Shale, streaky-----	55	909	Shale-----	150	1,719
Sand-----	14	923	Sand, hard streaks-----	2	1,721
Shale, reddish-brown-----	38	961	Sand, hard-----	11	1,732
Shale, sandy-----	24	985	Shale, sandy-----	66	1,798
Sand-----	58	1,043	Sand-----	31	1,829
Shale-----	26	1,069	Shale, streaky-----	17	1,846
Shale, sandy-----	54	1,123	Sand-----	6	1,852
Sand-----	2	1,125	Sand, hard-----	2	1,854
Sand, hard-----	1	1,126	Sand-----	15	1,869
Shale, streaky-----	27	1,153	Shale-----	12	1,881
Shale, sandy-----	19	1,172	Sand-----	4	1,885
Shale and limestone-----	15	1,187	Shale, streaky-----	79	1,964
Shale, sandy-----	32	1,219	Sand-----	9	1,973
Sand-----	37	1,256	Shale-----	69	2,042
Shale, sandy-----	111	1,367	Sand-----	46	2,088
Shale, streaky-----	22	1,389	Shale, sandy-----	19	2,107
Shale, sandy-----	43	1,432	Sand, firm-----	43	2,150
Sand, hard-----	1	1,433	Limestone, hard-----	1	2,151

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well M-50

Owner: J. H. Guerra. Driller: Bert Killinger.

Silt-----	16	16	Clay and gypsum-----	3	45
Sand with hard streaks-----	26	42	Gravel-----	10	55

Well M-53

Owner: Alfredo Rodriguez. Driller: A. L. Herschap.

Silt-----	2	2	Sand-----	6	33
Clay-----	25	27	Gravel-----	21	54

Well M-62

Owner: La Casita Farms. Driller: --

Silt-----	20	20	Gravel-----	15	59
Sand, fine-grained-----	24	44	Shale, blue-----	1	60

Well M-66

Owner: Roy Lepovitz. Driller: A. L. Herschap.

Sand and clay-----	21	21	Gravel, fine to coarse-----	23	65
Quicksand-----	21	42			

Well N-5

Owner: J. A. Wetzel. Driller: A & T Drilling Co.

Soil-----	6	6	Sand and gravel-----	44	343
Caliche-----	114	120	Sand-----	20	363
Sand, hard, and caliche-----	26	146	Shale-----	53	416
Sand and gravel-----	60	206	Sand-----	29	445
Shale-----	93	299	Shale-----	2	447

Table 5.--Drillers' logs of wells in Starr County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well N-6

Owner: Baldrige and King. Driller: Pursley and Sons.

Soil-----	12	12	Sand-----	45	709
Caliche-----	19	31	Shale, streaky-----	62	771
Caliche, hard-----	107	138	Sand, shale streaks-----	16	787
Shale, hard, sandy-----	137	275	Sand, firm-----	46	833
Shale-----	22	297	Shale, streaky-----	13	846
Sand-----	66	363	Sand, tight-----	16	862
Shale, sand streaks-----	180	543	Shale, streaky-----	17	879
Sand-----	39	582	Sand-----	108	987
Shale-----	82	664	Shale-----	12	999

Well N-11

Owner: Lalo Hinojosa. Driller: L. A. Fears.

Soil-----	5	5	Clay, red-----	190	234
Caliche-----	23	28	Clay, red, and sand-----	16	250
Clay, pink-----	16	44	Clay, red-----	78	328

Well N-19

Owner: Sun Oil Co. Driller: Eugene Garner.

Soil-----	3	3	Shale-----	25	230
Clay-----	34	37	Shale, sandy-----	11	241
Sand-----	11	48	Shale-----	37	278
Shale-----	137	185	Shale, brittle-----	23	301
Shale, sandy-----	20	205	Shale, sticky-----	17	318

(Continued on next page)

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well N-19--Continued					
Sand, streaky-----	65	383	Shale, sandy-----	6	425
Shale, streaky-----	34	417	Sand, shale streaks-----	24	449
Sand-----	2	419			

Well N-20

Owner: Sun Oil Co. Driller: Camelor Well Service.

Soil-----	4	4	Shale-----	61	310
Clay-----	35	39	Sand-----	20	330
Sand-----	14	53	Shale-----	46	376
Shale-----	135	188	Sand-----	5	381
Shale, broken, and sand----	12	200	Shale, sand streaks-----	99	480
Shale-----	37	237	Sand-----	34	514
Sand-----	12	249			

Well N-22

Owner: Sun Oil Co. Driller: Gus Canales.

Soil-----	3	3	Sand and shale-----	112	170
Clay-----	50	53	Rock, sandy, hard-----	2	172
Gravel-----	5	58	Sand-----	31	203

Well N-23

Owner: Sun Oil Co. Driller: Eugene Garner.

Soil-----	6	6	Shale-----	64	160
Clay-----	44	50	Sand and shale-----	10	170
Gravel, sandy, and shale---	22	72	Sand-----	30	200
Sand and gravel-----	24	96			

Table 5.--Drillers' logs of wells in Starr County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well N-56

Owner: LaGrulla School District. Driller: L. A. Fears.

Soil-----	18	18	Sand and gravel-----	3	69
Clay-----	19	37	Clay, blue-----	1	70
Sand-----	29	66			

Well N-59

Owner: C. W. Butler. Driller: Bert Killinger.

Surface soil-----	10	10	Sand-----	8	43
Sand-----	21	31	Clay-----	7	50
Clay-----	4	35	Gravel-----	18	68



Table 5.--Drillers' logs of wells in Willacy County, Texas

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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## Well A-5

Owner: Garcia and Dougherty. Driller: E. J. Rupp.

Surface soil-----	10	10	Shale and gypsum-----	50	490
Shale and caliche-----	33	43	Sand, hard-----	55	545
Sand-----	19	62	Shale-----	20	565
Shale-----	13	75	Sand, hard-----	30	595
Caliche-----	19	94	Shale-----	37	632
Shale-----	51	145	Sand, hard-----	13	645
Shale and sand-----	86	231	Sand, hard and shale-----	75	720
Sand-----	24	255	Shale and rock, hard-----	62	782
Shale and sand-----	95	350	Sand, hard-----	12	794
Shale-----	40	390	Shale and rock-----	14	808
Sand and shale-----	50	440	Sand-----	52	860

## Well A-7

Owner: Bob Allan. Driller: Layne-Texas Co.

Surface soil-----	5	5	Shale, sandy and sand-----	150	600
Clay and caliche-----	15	20	Sand, hard-----	58	658
Sand-----	5	25	Shale, hard, sandy-----	12	670
Clay-----	182	207	Sand-----	23	693
Clay, sticky-----	72	279	Shale-----	35	728
Sand-----	20	299	Sand-----	40	768
Clay-----	52	351	Shale, hard-----	24	792
Sand and shale, sandy-----	40	391	Sand and shale breaks, hard-----	158	950
Shale, sandy-----	17	408	Shale, hard-----	14	964
Shale and shale breaks, sandy-----	42	450			

Table 5.--Drillers' logs of wells in Willacy County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well B-4

Owner: Yturria Land and Cattle Co. Driller: E. J. Rupp.

Surface soil-----	15	15	Sand and shale, sandy-----	48	518
Shale-----	15	30	Shale-----	10	528
Shale, sandy and sand-----	220	250	Shale, sandy-----	137	665
Sand, hard-----	10	260	Gypsum and shale-----	63	728
Shale-----	36	296	Sand-----	12	740
Sand, hard-----	20	316	Shale-----	64	804
Shale-----	9	325	Sand and shale-----	15	819
Sand-----	10	335	Shale-----	30	849
Shale-----	33	368	Sand, hard-----	21	870
Sand-----	25	393	Shale-----	5	875
Shale-----	17	410	Sand-----	20	895
Sand-----	44	454	Shale-----	53	948
Shale-----	16	470	Sand-----	47	995

Well B-12

Owner: W. E. Bakke, Jr. Driller: E. J. Rupp.

Surface soil-----	6	6	Sand-----	100	340
Shale-----	30	36	Shale-----	65	405
Sand-----	10	46	Sand-----	45	450
Shale-----	44	90	Shale-----	10	460
Sand-----	30	120	Shale, sandy-----	58	518
Shale-----	20	140	Shale-----	44	562
Sand and shale, sandy-----	100	240	Sand-----	43	605

(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-12--Continued					
Shale and gypsum-----	95	700	Sand-----	20	769
Sand-----	15	715	Shale-----	31	800
Shale-----	10	725	Sand-----	30	830
Shale, sandy-----	24	749			

Well B-16

Owner: Conley Cattle Co. Driller: E. J. Rupp.

Surface soil-----	10	10	Shale-----	30	470
Shale-----	12	22	Sand and shale, hard-----	110	580
Shale, sandy-----	19	41	Shale-----	38	618
Shale-----	22	63	Sand and shale-----	22	640
Sand-----	25	88	Shale-----	15	655
Shale-----	36	124	Sand, hard-----	20	675
Sand-----	29	153	Gypsum and shale-----	85	760
Shale-----	23	176	Sand-----	18	778
Shale, sandy-----	64	240	Shale-----	3	781
Shale-----	85	325	Sand, hard-----	24	805
Sand-----	20	345	Shale-----	13	818
Shale and rock-----	45	390	Sand-----	34	852
Sand-----	50	440			

Well B-17

Owner: Conley Cattle Co. Driller: E. J. Rupp.

Surface soil-----	10	10	Shale-----	15	25
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(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well B-17--Continued					
Shale, sandy-----	16	41	Shale-----	70	655
Shale-----	19	60	Sand, hard-----	25	680
Sand-----	21	81	Gypsum and shale-----	80	760
Shale-----	43	124	Sand-----	20	780
Sand-----	21	145	Shale-----	5	785
Shale-----	31	176	Sand, hard-----	20	805
Shale, sandy-----	59	235	Shale-----	7	812
Shale-----	100	335	Sand-----	8	820
Sand-----	10	345	Shale-----	10	830
Shale and rock-----	45	390	Sand-----	15	845
Sand-----	45	435	Shale-----	8	853
Shale-----	40	475	Sand-----	23	876
Sand and gypsum-----	110	585			

Well B-18

Owner: Conley Cattle Co. Driller: E. J. Rupp.

Surface soil-----	5	5	Sand-----	20	198
Shale-----	13	18	Shale-----	57	255
Sand-----	7	25	Sand-----	20	275
Shale-----	33	58	Shale-----	15	290
Sand-----	17	75	Sand-----	34	324
Shale-----	18	93	Shale, sandy-----	16	340
Sand-----	22	115	Shale-----	25	365
Shale-----	63	178	Sand-----	53	418

(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well B-18--Continued					
Shale, sandy-----	10	428	Shale-----	114	730
Sand-----	26	454	Boulders-----	15	745
Shale-----	25	479	Shale-----	36	781
Sand-----	13	492	Sand, hard-----	23	804
Gypsum and shale-----	10	502	Shale-----	20	824
Sand-----	20	522	Sand-----	20	844
Shale-----	52	574	Shale-----	4	848
Sand and shell-----	42	616	Sand-----	7	855

Well B-21

Owner: City of Raymondville. Driller: Layne-Texas Co.

Surface soil-----	4	4	Shale-----	15	381
Clay-----	8	12	Sand-----	52	433
Sand-----	25	37	Shale and sand breaks-----	35	468
Clay and gravel streaks----	65	102	Shale and caliche-----	34	502
Sand-----	18	120	Shale and sand breaks-----	82	584
Clay-----	7	127	Sand-----	7	591
Clay and caliche-----	15	142	Shale-----	3	594
Sand-----	51	193	Sand-----	32	626
Shale, sandy-----	25	218	Shale and sand breaks-----	181	807
Shale, sandy, hard-----	22	240	Shale-----	36	843
Shale-----	8	248	Sand-----	26	869
Shale, sandy-----	98	346	Shale-----	7	876
Sand, hard-----	20	366	Sand-----	54	930

(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well B-21--Continued					
Shale-----	6	936	Sand-----	61	1,054
Sand-----	19	955	Shale-----	142	1,196
Shale-----	38	993			

Well C-4, partial log

Owner: Humble Oil and Refining Co. Driller: Carl Vickers.

No record-----	590	590	Sand-----	35	1,276
Shale-----	41	631	Shale and hard streaks-----	70	1,346
Sand, hard and shale streaks-----	409	1,040	Sand, hard and shale-----	10	1,356
Shale-----	26	1,066	Shale-----	23	1,379
Sand-----	63	1,129	Sand-----	24	1,403
No record-----	112	1,241	Shale-----	13	1,416

Well C-5

Owner: Humble Oil and Refining Co. Driller: W. J. Calaway.

Surface sand-----	75	75	Shale, sandy and shell-----	230	860
Shale-----	15	90	Sand-----	25	885
Shale and sand streaks-----	45	135	Shale, sandy and shell-----	25	910
Sand-----	57	192	Shale, sandy-----	10	920
Shale, sandy-----	28	220	Shale, sandy and shell-----	40	960
Sand-----	20	240	Shale, sticky-----	64	1,024
Sand and shale streaks-----	80	320	Shale, sandy-----	32	1,056
Shale, sandy-----	40	360	Shale, sandy and sand-----	104	1,160
Sand, sticky-----	260	620	Sand-----	47	1,207
Boulders, hard-----	10	630			

Table 5.--Drillers' logs of wells in Willacy County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
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Well C-7

Owner: City of San Perlita. Driller: Carl Vickers.

Surface soil-----	12	12	Shale-----	18	764
Shale-----	59	71	Sand-----	72	836
Sand-----	27	98	Shale-----	7	843
Shale-----	8	106	Sand, hard-----	53	896
Sand-----	32	138	Shale-----	11	907
Shale-----	7	145	Sand, hard-----	28	935
Sand-----	14	159	Shale-----	182	1,117
Shale-----	13	172	Sand, hard-----	23	1,140
Sand-----	139	311	Shale-----	112	1,252
Shale-----	31	342	Sand, pink-----	90	1,342
Sand-----	35	377	Sand-----	6	1,348
Shale-----	93	470	Shale-----	2	1,350
Sand-----	105	575	Sand-----	7	1,357
Shale-----	54	629	Shale, pink-----	20	1,377
Sand-----	6	635	Sand-----	22	1,399
Shale-----	5	640	Shale-----	3	1,402
Sand-----	84	724	Sand-----	27	1,429
Shale-----	7	731	Shale-----	3	1,432
Sand-----	15	746			

Well C-11

Owner: Humble Oil and Refining Co. Driller: Carl Vickers.

Soil and clay-----	13	13	Sand-----	7	20
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(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

Thickness (feet)		Depth (feet)	Thickness (feet)		Depth (feet)
Well C-11--Continued					
Clay-----	38	58	Shale-----	41	755
Sand-----	25	83	Sand, shaly-----	155	910
Sand and shale streaks-----	146	229	Shale-----	105	1,015
Sand-----	11	240	Sand-----	35	1,050
Shale-----	13	253	Shale-----	24	1,074
Sand-----	59	312	Sand-----	77	1,151
Shale-----	41	353	Shale-----	12	1,163
Sand-----	48	401	Sand-----	50	1,213
Shale-----	27	428	Shale-----	6	1,219
Sand-----	106	534	Sand-----	16	1,235
Shale-----	48	582	Shale, pink-----	47	1,282
Sand-----	73	655	Sand-----	38	1,320
Rock-----	3	658	Shale-----	1	1,321
Sand-----	56	714			

Well C-16

Owner: A. J. Schubert. Driller: E. J. Rupp.

Surface soil-----	12	12	Shale and shell-----	215	665
Sand-----	70	82	Sand-----	30	695
Shale-----	78	160	Shale and shell-----	50	745
Sand-----	30	190	Shell and sand-----	155	900
Shale and shell-----	70	260	Shell and shale-----	100	1,000
Sand-----	25	285	Shale and rock-----	50	1,050
Shale, sandy and gypsum-----	100	385	Shale-----	57	1,107
Sand-----	65	450	Sand-----	31	1,138



Table 5.--Drillers' logs of wells in Willacy County--Continued

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well C-17

Owner: A. J. Schubert. Driller: E. J. Rupp.

Surface soil-----	15	15	Sand, hard-----	45	795
Sand-----	55	70	Shell and shale-----	30	825
Clay-----	15	85	Sand-----	15	840
Sand and shell-----	135	220	Shale and shell-----	64	904
Shale and shell-----	108	328	Sand-----	18	922
Sand and shell-----	22	350	Shell, hard-----	30	952
Shale and shell-----	70	420	Sand and shell-----	20	972
Shale-----	125	545	Sand-----	13	985
Sand-----	25	570	Clay-----	3	988
Shell and shale-----	36	606	Sand-----	7	995
Clay-----	37	643	Shale-----	111	1,106
Shell and clay-----	74	717	Sand-----	8	1,114
Sand, hard-----	25	742	Clay-----	18	1,132
Clay and shell-----	8	750	Sand-----	19	1,151

Well C-18

Owner: Humble Oil and Refining Co. Driller: A. H. Masiran.

Clay soil-----	8	8	Sand-----	22	240
Sand-----	27	35	Shale, sandy-----	47	287
Clay-----	13	48	Sand, hard-----	19	306
Shale, streaky-----	46	94	Sand and shale streaks-----	34	340
Sand-----	114	208	Shale, sticky-----	45	385
Shale-----	10	218	Sand-----	17	402

(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well C-18--Continued					
Shale, hard-----	23	425	Shale-----	7	1,117
Sand-----	22	447	Sand-----	10	1,127
Shale-----	56	503	Sand and shale-----	39	1,166
Sand-----	71	574	Sand, hard-----	60	1,226
Shale-----	16	590	Sand and shale-----	94	1,320
Sand-----	60	670	Shale, pink-----	13	1,333
Shale, sticky-----	27	697	Sand-----	36	1,369
Sand-----	17	714	Shale-----	2	1,371
Shale-----	6	720	Sand-----	38	1,409
Sand-----	21	741	Shale-----	6	1,415
Shale-----	12	753	Sand-----	9	1,424
Sand-----	13	766	Shale, hard-----	25	1,449
Shale-----	186	952	Sand-----	11	1,460
Rock-----	4	956	Shale, hard-----	14	1,474
Shale and sand-----	108	1,064	Sand, hard-----	17	1,491
Sand-----	46	1,110	Shale, pink-----	14	1,505

Well D-2

Owner: Port Mansfield Authority. Driller: Layne-Texas Co.

Clay, sandy-----	55	55	Sand and lime-----	63	343
Clay and clay, sandy-----	30	85	Shale and shale, sandy-----	45	388
Sand and clay breaks-----	20	105	Sand, soft and shell-----	135	523
Shale and shale, sandy-----	95	200	Shale-----	12	535
Sand and shale, sandy-----	80	280	Sand and shell-----	18	553

(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

		Thickness (feet)	Depth (feet)			Thickness (feet)	Depth (feet)
Well D-2--Continued							
Shale, hard, sandy and boulders-----	116	669	Sand and shale streaks-----	9	1,107		
Sand and shale, medium-----	81	750	Sand and shale breaks-----	48	1,155		
Sand, soft and some shale--	90	840	Sand, soft-----	74	1,229		
Shale and shale, sandy-----	14	854	Shale-----	11	1,240		
Sand and shale, hard, rough-----	37	891	Sand-----	23	1,263		
Shale and sand breaks-----	18	909	Shale, sandy-----	27	1,290		
Sand and shell-----	44	953	Sand, soft-----	10	1,300		
Shale, sandy and shale-----	82	1,035	Shale, hard and boulders---	65	1,365		
Shale, hard-----	23	1,058	Sand and shale, sandy-----	175	1,540		
Sand-----	13	1,071	Sand-----	33	1,573		
Shale, hard-----	27	1,098	Shale-----	7	1,580		

Well E-20

Owner: Los Coyotes Gin. Driller: E. J. Rupp.

Surface soil-----	12	12	Clay and sand-----	60	500
Sand-----	23	35	Sand-----	70	570
Clay-----	57	92	Clay-----	41	611
Sand-----	43	135	Sand-----	13	624
Clay-----	35	170	Sand, shell and clay-----	112	736
Sand and gravel-----	120	290	Clay-----	50	786
Clay-----	55	345	Sand-----	40	826
Sand and clay-----	64	409	Sand, shell and clay-----	214	1,040
Clay-----	31	440	Sand-----	12	1,052

(Continued on next page)

Table 5.--Drillers' logs of wells in Willacy County--Continued

	Thickness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)
Well E-20--Continued					
Sand and shell-----	12	1,064	Clay-----	62	1,290
Clay-----	146	1,210	Sand-----	65	1,355
Sand-----	18	1,228			

Well F-1

Owner: R. G. Smith. Driller: E. J. Rupp.

Surface soil-----	10	10	Shell, hard-----	13	853
Sand-----	47	57	Sand-----	37	890
Shale-----	23	80	Shale-----	10	900
Sand-----	70	150	Sand and shell-----	40	940
Shale-----	44	194	Sand and shale-----	10	950
Rock-----	20	214	Shale-----	42	992
Shale-----	14	228	Sand-----	18	1,010
Sand, shale and shell-----	262	490	Shale-----	90	1,100
Shale-----	24	514	Sand-----	33	1,133
Shell and shale-----	226	740	Shale-----	3	1,136
Shell, hard-----	44	784	Sand-----	25	1,161
Sand-----	56	840	Shale-----	10	1,171

Table 5.--Drillers' logs of wells in Kenedy County, Texas

Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
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Well 264

Owner: Harl Thomas. Driller: E. J. Rupp.

Surface soil-----	15	15	Shale-----	43	442
Shale-----	11	26	Sand-----	23	465
Shale, sandy and sand-----	254	280	Shale-----	28	493
Shale-----	16	296	Shale, sandy and shale-----	130	623
Sand, hard-----	24	320	Shale and gypsum-----	47	670
Shale-----	9	329	Shale, sandy-----	55	725
Sand-----	15	344	Shale-----	50	775
Shale-----	41	385	Sand-----	55	830
Sand-----	14	399			

Well 265

Owner: Humble Oil and Refining Co. Driller: Carl Vickers.

Surface soil-----	2	2	Shale-----	45	1,042
Sand, black-----	15	17	Sand-----	130	1,172
Shale, green-----	41	58	Shale-----	3	1,175
Sand-----	263	321	Sand-----	41	1,216
Sand and shale, streaks----	439	760	Shale-----	19	1,235
Shale, sandy-----	23	783	Sand, hard and shale streaks-----	66	1,301
Sand and shale streaks-----	60	843	Sand-----	28	1,329
Sand and hard streaks-----	64	907	Shale, brown and hard streaks-----	26	1,355
Shale and hard streaks-----	78	985	Sand and boulders-----	64	1,419
Sand-----	4	989	Shale-----	1	1,420
Shale-----	4	993			
Sand-----	4	997			

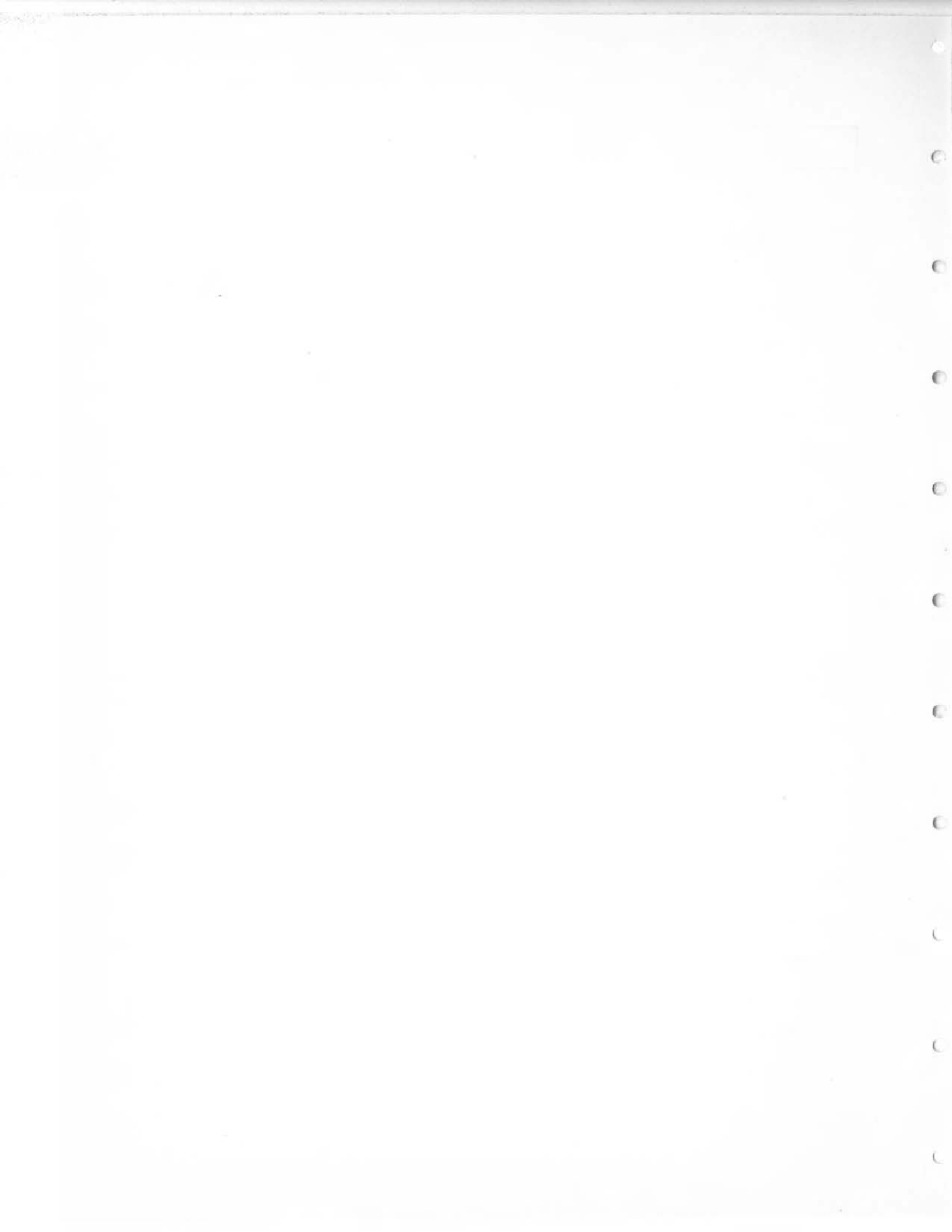


TABLE 6

WATER LEVELS IN WELLS  
IN  
CAMERON AND HIDALGO COUNTY, TEXAS





Table 6.--Water levels in wells in Cameron County, Texas

Well E-72. Owner: City of Harlingen

1957

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1										34.3	-	24.8
2										34.4	-	24.6
3										34.2	-	24.6
4										36.8	-	24.7
5										33.6	-	24.7
6										33.2	-	24.7
7										32.6	35.5	24.2
8										34.3	34.5	24.9
9										36.4	34.2	24.8
10										38.2	32.6	25.1
11										38.9	31.7	26.3
12										38.8	30.8	26.8
13										36.8	30.2	26.9
14										35.9	29.5	33.9
15										37.1	28.9	29.2
16										36.7	28.5	28.9
17							32.6			36.7	28.1	35.1
18										-	28.8	31.4
19										-	28.0	-
20										-	28.3	-
21										-	27.2	-
22										-	27.0	-
23										-	26.6	-
24									31.6	-	26.3	-
25									31.3	-	26.0	-

(Continued on next page)

Table 6.--Water levels in wells in Cameron County--Continued

## Well E-72--Continued

1957

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
26									32.1	-	25.7	-
27									32.6	-	25.5	-
28									33.7	-	25.3	-
29									33.3	-	25.1	-
30									31.9	-	25.0	-
31										-		-

1958

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1	28.4	21.3	-	22.9	25.8	30.0	28.1	24.2				
2	29.4	21.4	-	23.1	25.8	29.5	27.6	23.8				
3	29.2	21.3	-	24.0	25.3	30.3	27.0	23.3				
4	28.6	23.4	-	25.4	25.1	28.9	27.1	23.2				
5	28.0	22.4	-	25.7	24.7	28.5	27.2	24.1				
6	27.4	22.3	-	28.6	24.6	28.6	26.0	24.7				
7	26.9	22.6	-	30.0	24.1	28.0	25.6	24.7				
8	26.4	22.7	-	29.0	23.9	27.4	26.2	24.1				
9	25.9	23.8	-	29.2	24.1	27.0	25.6	23.9				
10	25.4	23.4	-	27.6	26.2	26.2	24.3	23.6				
11	24.9	30.0	-	27.0	25.1	25.9	24.0	22.9				
12	24.6	25.7	-	25.4	24.9	26.9	23.9	22.6				
13	24.3	23.9	-	27.1	28.1	31.9	23.5	22.3				
14	24.1	23.0	-	26.7	28.4	32.6	23.4	22.2				
15	23.8	22.4	-	25.8	28.8	29.0	23.8	22.3				
16	23.6	22.0	-	25.2	27.6	28.4	23.7	22.2				

(Continued on next page)

Table 6.--Water levels in wells in Cameron County--Continued

## Well E-72--Continued

Day	1958											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
17	23.4	21.8	-	25.0	26.6	30.3	23.1	21.6				
18	23.1	21.8	-	24.4	24.9	31.7	22.9	21.5				
19	22.9	21.8	-	24.0	24.6	31.6	24.2	21.6				
20	22.7	21.1	-	23.5	25.5	31.1	23.5	21.4				
21	23.5	20.5	-	23.2	25.6	31.4	23.2	21.3				
22	22.2	20.4	-	22.9	27.9	47.1	23.7	21.6				
23	22.1	20.2	-	22.8	30.5	41.9	24.0	21.7				
24	22.1	-	-	23.3	31.1	34.3	24.2	21.8				
25	22.4	-	-	24.2	30.8	33.6	24.2	21.8				
26	22.0	-	-	24.8	30.4	32.9	24.0	22.8				
27	21.7	-	20.2	23.8	29.3	33.9	23.6	22.5				
28	21.6	-	21.2	23.7	29.9	31.3	23.6					
29	21.4	-	22.3	24.5	30.6	29.6	23.2					
30	21.3		21.7	25.6	32.7	28.4	23.6					
31	21.3		21.5		33.1		23.5					

Table 6.--Water levels in wells in Hidalgo County, Texas

Well S-60. Owner: Clayton E. Malone

1946

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1							58.4	57.2	57.3	58.1	58.7	57.6
2							58.4	57.1	57.1	58.2	58.6	57.7
3							58.4	57.0	56.9	58.3	58.6	57.7
4							58.5	57.0	56.8	58.4	58.5	57.6
5							58.5	57.0	56.6	58.4	58.5	57.6
6							58.4	57.0	56.5	58.4	58.4	57.5
7							58.4	56.9	56.4	58.4	58.3	57.5
8							58.4	56.9	56.3	58.4	58.3	57.5
9							58.4	56.9	56.2	58.4	58.2	57.5
10							58.3	56.8	56.1	58.4	58.2	57.5
11							58.2	56.7	56.2	58.4	58.1	57.4
12							58.1	56.7	56.4	59.2	58.0	57.3
13							58.0	56.7	56.4	59.3	57.9	-
14							57.9	56.6	56.6	59.9	57.9	-
15							57.8	56.6	56.6	58.9	57.8	-
16							57.7	56.5	56.5	58.7	57.7	-
17						58.4	57.6	56.6	56.7	58.9	57.6	-
18						-	57.5	56.6	56.9	58.8	57.6	-
19						-	57.4	56.5	56.8	58.8	57.5	-
20						-	57.4	56.6	56.9	58.8	57.5	-
21						58.4	57.3	56.5	56.9	58.8	57.4	-
22						58.4	57.3	56.7	57.1	58.8	57.4	-
23						58.7	57.3	56.7	57.1	58.8	57.5	-
24						58.8	57.3	56.7	57.2	58.8	57.6	-
25						58.7	57.3	56.7	57.5	58.8	57.6	-

(Continued on next page)

Table 6.--Water levels in wells in Hidalgo County--Continued

## Well S-60--Continued

Day	1946											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
26						58.8	57.3	56.7	57.7	58.8	57.6	-
27						59.1	57.3	56.7	58.1	58.8	57.6	-
28						59.1	57.3	56.7	58.2	58.8	57.7	-
29						58.7	57.3	56.7	58.1	58.8	57.7	-
30						58.5	57.3	56.7	58.0	58.7	57.7	-
31							57.2	57.3		58.7		-

Day	1947											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-	-	57.4	56.6	-	57.4	56.3	-	-	-	56.6	-
2	-	-	57.4	56.6	-	57.4	56.3	-	-	-	56.6	-
3	-	-	57.4	56.7	-	57.4	56.3	-	-	-	56.6	-
4	-	-	57.3	56.8	57.3	57.4	-	-	-	-	56.5	-
5	-	-	57.3	56.9	57.2	57.4	-	-	-	-	56.5	-
6	-	-	57.3	56.9	57.1	57.4	-	-	-	-	56.5	-
7	-	-	57.2	56.9	56.9	47.3	-	-	-	-	56.5	-
8	-	-	57.1	56.9	56.8	57.3	-	-	-	-	56.5	-
9	-	-	57.0	56.8	56.7	57.2	-	-	-	-	56.5	-
10	-	-	57.0	56.8	56.6	57.2	-	-	-	-	56.5	-
11	-	-	56.9	56.7	56.4	57.1	-	-	-	-	56.4	-
12	-	-	56.9	56.7	56.4	56.9	-	-	-	-	56.4	-
13	-	-	57.0	56.6	56.6	56.8	-	-	-	-	56.4	-
14	-	-	56.9	56.6	56.6	56.7	-	-	-	-	56.4	-
15	-	-	56.8	56.8	56.5	56.6	-	-	-	-	56.4	-
16	-	-	56.7	56.9	56.3	56.4	-	-	-	-	56.4	-

(Continued on next page)

Table 6.--Water levels in wells in Hidalgo County--Continued

## Well S-60--Continued

1947

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
17	-	-	56.8	57.0	56.5	56.3	-	-	-	-	-	-
18	-	-	56.8	57.1	56.7	56.2	-	-	-	-	-	-
19	-	57.3	56.8	57.0	56.9	56.0	-	-	-	-	-	-
20	-	57.3	56.8	57.1	57.0	56.4	-	-	-	-	-	-
21	-	57.2	56.8	57.2	57.0	56.4	-	-	-	-	-	-
22	-	57.2	56.8	57.2	57.1	56.3	-	-	-	-	-	-
23	-	57.3	56.8	57.2	57.2	56.3	-	-	-	-	-	-
24	-	57.3	56.7	57.3	57.2	56.0	-	-	-	-	-	-
25	-	57.3	56.7	57.3	57.5	56.3	-	-	-	-	-	-
26	-	57.2	56.7	57.2	57.5	56.8	-	-	-	-	-	-
27	-	57.2	56.6	57.2	57.5	56.8	-	-	-	-	-	-
28	-	57.4	56.5	57.1	57.5	56.8	-	-	-	-	-	-
29	-		56.4	57.1	57.4	56.4	-	-	-	56.8	-	-
30	-		56.4	57.2	57.4	56.3	-	-	-	56.7	-	-
31	-		56.5		57.4		-	-		56.6		-

1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	-	-						56.6	-	59.2	59.8	58.0
2	-	-						56.5	56.3	59.2	59.7	58.0
3	-	-						56.6	56.3	59.2	59.7	57.6
4	-	-						56.4	56.1	59.2	59.7	57.4
5	-	-						55.9	55.9	59.2	59.7	57.7
6	-	-					54.6	55.6	56.1	59.2	59.6	57.9
7	-	-					55.8	55.4	56.1	59.1	59.6	58.0

(Continued on next page)

Table 6.--Water levels in wells in Hidalgo County--Continued

Well S-60--Continued

1948

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
8	-	-					56.3	55.4	56.1	59.1	59.5	58.2
9	-	-					56.7	55.1	56.2	59.0	59.3	58.2
10	-	56.8					56.9	55.2	56.4	59.0	58.9	58.1
11	-	56.8					56.9	55.2	57.4	58.6	58.6	58.0
12	-						56.1	55.4	58.0	58.2	58.2	58.0
13	-						56.0	55.4	58.4	58.4	58.0	58.0
14	-						56.3	55.6	58.8	58.5	58.1	58.2
15	-						56.4	55.7	59.1	58.7	58.2	58.3
16	-						56.5	55.9	59.2	58.8	58.0	58.4
17	-						56.5	55.8	59.1	58.9	58.0	58.4
18	-						56.6	55.8	58.8	59.5	58.2	58.3
19	-						56.6	55.7	58.7	59.5	58.2	58.1
20	-						56.6	55.8	58.8	59.4	58.3	58.2
21	55.9						56.7	55.8	59.0	59.3	58.5	58.2
22	-						56.8	55.8	59.1	59.3	58.6	57.9
23	-						56.8	55.8	59.1	59.4	58.7	-
24	-						56.8	55.8	59.1	59.5	58.8	57.6
25	-						56.8	55.9	59.2	59.8	58.8	57.7
26	-						56.8	56.0	59.2	59.8	58.8	58.0
27	-						56.8	55.9	59.2	59.8	58.8	58.1
28	-						56.7	55.9	59.2	59.8	58.3	57.8
29	-						56.6	-	59.2	59.7	58.3	57.8
30	-						56.5	-	59.2	59.7	58.1	57.8
31	-						56.5	-		59.7		58.0

(Continued on next page)

Table 6.--Water levels in wells in Hidalgo County--Continued

## Well S-60--Continued

Day	1949											
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.
1	58.2	-	-	58.1	-	57.6	-	57.9	56.6			
2	58.4	-	-	58.0	-	57.2	-	57.9	56.6			
3	58.5	-	-	58.1	-	56.9	-	57.8	56.4			
4	58.5	-	-	58.1	-	56.5	-	57.8	56.5			
5	58.4	-	-	58.3	-	56.5	-	57.8	56.6			
6	58.2	-	-	58.4	-	56.6	-	57.8	-			
7	58.1	-	-	58.2	-	56.6	-	57.9	-			
8	58.1	-	-	58.3	-	56.6	-	57.9	-			
9	58.2	59.1	-	58.5	-	56.9	-	-	-			
10	58.3	59.0	-	58.7	-	57.1	-	-	-			
11	58.4	58.9	-	58.8	-	58.1	-	-	-			
12	58.5	58.8	-	58.9	-	58.2	-	-	-			
13	58.6	58.7	-	58.9	-	58.0	-	-	-			
14	58.7	58.3	-	58.8	-	58.0	-	-	-			
15	58.7	58.0	59.5	58.5	-	57.9	-	-	-			
16	58.8	57.6	59.5	58.3	-	58.0	-	-	-			
17	58.9	57.2	59.5	58.2	59.6	58.3	-	-	-			
18	58.9	57.0	59.5	58.3	59.6	58.4	57.3	-	-			
19	58.9	56.8	59.1	58.0	59.7	58.4	57.3	-	-			
20	58.9	56.8	59.0	57.8	59.8	58.1	57.3	-	-			
21	59.0	56.8	59.1	57.6	59.6	57.9	57.1	-	56.7			
22	59.0	57.1	58.9	57.5	58.9	57.5	57.2	57.4	56.7			
23	59.0	57.2	59.0	58.3	58.8	57.5	57.2	57.4	56.8			
24	59.0	57.2	59.1	59.2	58.9	57.6	57.4	57.3	56.9			

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Table 6.--Water levels in wells in Hidalgo County--Continued

Well S-60--Continued

1949

Day	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct	Nov.	Dec.
25	58.9	57.1	59.0	59.5	58.5	57.3	57.4	57.2	-			
26	-	58.0	58.8	59.6	58.2	57.3	57.5	57.3	-			
27	-	58.2	58.8	-	57.9	57.4	57.6	57.3	-			
28	-	58.2	58.9	-	57.8	57.5	57.7	57.2	-			
29	-	-	58.8	-	57.7	-	57.8	57.2	-			
30	-		58.3	-	57.7	-	58.4	57.2	-			
31	-		58.0		57.6		58.3	57.0				

Table 6.--Water levels in wells in Hidalgo County, Texas

(In feet below land surface)

Date	Water level	Date	Water level	Date	Water level
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Well D-25

Owner: Neal Tennis

Mar. 21, 1948	28.77	June 4, 1952	33.37	May 22, 1956	37.90
Apr. 26, 1949	26.32	May 20, 1953	36.68	June 4, 1957	37.47
Jan. 11, 1950	30.66	May 26, 1954	Pumping	June 27, 1958	30.96
Apr. 25	35.60	May 27, 1955	37.03		

Well D-29

Owner: A. J. Ehlers

Dec. 10, 1948	28.59	June 13, 1951	46.69	May 27, 1955	47.37
Apr. 26, 1949	33.27	June 3, 1952	46.50	May 22, 1956	Pumping
Jan. 11, 1950	42.22	May 20, 1953	43.88	June 4, 1957	47.38
June 1	43.00	May 26, 1954	45.60	June 27, 1958	Pumping

Well D-32

Owner: A. J. Ehlers

Mar. 23, 1948	32.42	June 13, 1951	43.63	May 27, 1955	45.84
Dec. 10	28.72	June 3, 1952	40.11	May 22, 1956	44.03
Apr. 26, 1949	32.83	May 20, 1953	42.50	June 4, 1957	44.98
Apr. 25, 1950	39.04	May 25, 1954	45.01	June 27, 1958	44.76
June 1	41.50				

Well D-35

Owner: A. W. Beaurline

Mar. 23, 1948	35.47	Dec. 10, 1948	32.53	Apr. 26, 1949	32.91
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Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well D-35--Continued					
Jan. 11, 1950	35.90	June 3, 1952	40.59	May 22, 1956	44.36
Apr. 25	40.45	May 20, 1953	41.35	June 4, 1957	46.47
June 1	37.87	May 25, 1954	43.95	June 27, 1958	52.53
June 14, 1951	44.77	May 27, 1955	45.10		

Well D-36

Owner: A. W. Beaurline

Mar. 23, 1948	34.67	June 1, 1950	37.18	May 27, 1955	43.07
Dec. 10	33.61	June 14, 1951	39.17	May 22, 1956	42.86
Apr. 26, 1949	34.14	June 3, 1952	39.07	June 4, 1957	44.43
Jan. 11, 1950	35.82	May 20, 1953	41.25	June 27, 1958	44.17
Apr. 25	36.83	May 25, 1954	41.68		

Well D-39

Owner: Southern Floral Co.

June 21, 1945	29.25	May 31, 1950	41.70	May 27, 1955	Pumping
Jan. 23, 1948	37.95	June 4, 1952	43.08	May 22, 1956	47.32
Mar. 22	38.88	May 21, 1953	44.47	June 4, 1957	48.12
Apr. 26, 1949	39.82	May 25, 1954	45.01	June 27, 1958	47.63
Apr. 25, 1950	50.70				

Well D-40

Owner: A. W. Beaurline

Sept. 2, 1939	32.00	Apr. 26, 1949	36.12	May 10, 1951	41.70
Jan. 23, 1948	33.67	Apr. 26, 1950	39.54	June 13	51.60
Mar. 30	32.15	May 31	39.30	June 4, 1952	42.01

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Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well D-40 Continued					
May 20, 1953	43.69	May 22, 1956	46.38	June 27, 1958	46.08
May 26, 1954	45.17	June 4, 1957	46.90		

Well D-42

Owner: George D. Young

Apr. 4, 1948	43.89	May 21, 1953	46.90	May 22, 1956	49.97
Jan. 11, 1950	43.69	May 25, 1954	45.93	June 4, 1957	49.64
Apr. 25	43.85	May 27, 1955	Pumping	June 27, 1958	49.24
June 4, 1952	45.50				

Well D-45

Owner:--

Jan. 11, 1950	1.34	June 4, 1952	22.70	May 27, 1955	27.40
Apr. 25	5.37	May 21, 1953	23.52	May 22, 1956	De- stroyed
June 14, 1951	8.97	May 25, 1954	25.21		

Well D-46

Owner: George D. Young

Apr. 4, 1948	34.18	June 4, 1952	39.65	May 22, 1956	43.86
Jan. 11, 1950	36.74	May 21, 1953	40.92	June 4, 1957	44.67
Apr. 25	37.25	May 25, 1954	41.32	June 27, 1958	43.92
June 14, 1951	38.86	May 27, 1955	Pumping		

Well D-64

Owner: G. D. Young

Mar. 23, 1948	39.42	Apr. 26, 1949	39.01	May 29, 1949	46.55
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Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well D-64--Continued					
June 14, 1951	51.93	May 27, 1955	53.47	June 4, 1957	54.42
June 4, 1952	51.15	May 22, 1956	58.05	June 27, 1958	53.73

Well D-65

Owner: Reynaldo Vela

Mar. 22, 1948	34.31	May 29, 1950	39.20	May 22, 1956	52.00
Apr. 26, 1949	33.25	June 4, 1952	46.37	June 4, 1957	50.37
Jan. 11, 1950	36.57	May 25, 1954	47.97	June 27, 1958	49.01
Apr. 26	39.88	May 27, 1955	50.67		

Well D-67

Owner: Reynaldo Vela

Mar. 22, 1948	44.57	May 29, 1950	47.00	May 27, 1955	51.93
Apr. 26, 1949	44.48	June 4, 1952	47.17	May 22, 1956	52.92
Jan. 11, 1950	44.32	May 21, 1953	51.88	June 4, 1957	54.66
Apr. 26	45.18	May 25, 1954	50.23	June 27, 1958	53.76

Well D-68

Owner: Reynaldo Vela

June 21, 1945	42.74	Apr. 26, 1950	50.10	May 27, 1955	56.35
Mar. 22, 1948	50.02	June 4, 1952	52.30	May 22, 1956	57.40
Dec. 10	50.20	May 21, 1953	55.90	June 4, 1957	57.93
Apr. 26, 1949	49.25	May 25, 1954	54.97	June 27, 1958	57.64

Well D-69

Owner: J. E. Garrett

Sept. 1, 1939	51.00	Apr. 15, 1948	43.99	Dec. 10, 1948	44.35
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Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well D-69--Continued					
Apr. 26, 1949	44.52	May 21, 1953	49.60	June 4, 1957	51.70
Jan. 11, 1950	44.62	May 25, 1954	49.07	June 27, 1958	49.86
June 13, 1951	47.10	May 27, 1955	51.15		
June 4, 1952	47.04	May 22, 1956	52.01		

Well E-54

Owner: Ranger Chemical Co.

Jan. 22, 1948	29.92	Dec. 9, 1948	28.61	Jan. 11, 1950	30.05
Mar. 20	29.85	Apr. 26, 1949	28.28	Apr. 26	31.10

Well E-55

Owner: T. H. McClelland

Jan. 22, 1948	31.11	Apr. 25, 1950	32.48	May 26, 1954	35.99
Mar. 20	31.13	May 29	33.70	May 27, 1955	35.53
Dec. 9	29.98	June 13, 1951	32.19	May 22, 1956	Caved
Apr. 26, 1949	29.69	June 4, 1952	33.29	June 4, 1957	36.30
Jan. 11, 1950	30.95	May 21, 1953	34.56		

Well E-56

Owner: Joe W. Lebow

Jan. 22, 1948	28.93	Apr. 25, 1950	29.15	May 26, 1954	34.03
Mar. 21, 1948	29.04	May 29	29.44	May 27, 1955	34.25
Dec. 9, 1948	27.79	June 13, 1951	29.56	May 22, 1956	33.95
Apr. 26, 1949	27.59	June 4, 1952	30.48	June 4, 1957	34.29
Jan. 11, 1950	28.45	May 21, 1953	33.36	June 27, 1958	33.38

Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well E-60

Owner: A. K. Polis

Jan. 23, 1948	24.55	Dec. 9, 1948	22.95	Jan. 11, 1950	24.88
Mar. 20	24.02	Apr. 26, 1949	22.58		Well filled

Well E-63

Owner: A. K. Polis

June 9, 1947	30.8	Apr. 26, 1950	32.05	May 20, 1953	35.71
Jan. 23, 1948	30.17	June 1	32.40	May 26, 1954	36.61
Mar. 20	29.09	May 10, 1951	34.77	May 27, 1955	38.35
Dec. 9	28.44	June 13	33.92	May 22, 1956	37.63
Apr. 26, 1949	28.05	June 4, 1952	34.45	June 4, 1957	De- stroyed
Jan. 11, 1950	31.17				

Well E-65

Owner: A. K. Polis

June 9, 1947	33.00	Apr. 26, 1950	38.86	May 26, 1954	45.02
Jan. 23, 1948	36.67	June 1	38.80	May 27, 1955	46.86
Mar. 20	35.16	May 10, 1951	42.10	May 22, 1956	47.15
Dec. 9	36.56	June 13	41.42	June 4, 1957	47.27
Apr. 26, 1949	35.88	June 4, 1952	42.17	June 27, 1958	47.17
Jan. 11, 1950	38.53	May 20, 1953	43.60		

Well E-66

Owner: A. K. Polis

June 21, 1945	31.48	Jan. 23, 1948	33.15	Apr. 26, 1949	34.83
June 9, 1947	36.9	Mar. 20	31.50	Jan. 11, 1950	37.29

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Table 6.--Water Levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well E-66--Continued					
Apr. 26, 1950	38.99	June 4, 1952	42.93	May 22, 1956	46.72
June 1	39.87	May 20, 1953	44.51	June 4, 1957	47.50
May 10, 1951	40.68	May 26, 1954	44.85	June 27, 1958	47.94
June 13	40.68	May 27, 1955	47.03		

Well E-67

Owner: A. K. Polis

Sept. 2, 1939	30.00	Apr. 26, 1950	35.55	May 20, 1953	39.20
Jan. 23, 1948	36.12	June 1	35.52	May 27, 1955	46.39
Mar. 20	29.35	May 10, 1951	37.97	May 22, 1956	45.95
Apr. 26, 1949	31.21	June 13	38.14	June 4, 1957	46.65
Jan. 11, 1950	34.38	June 4, 1952	39.67	June 27, 1958	42.60

Well E-68

Owner: A. K. Polis

Mar. 20, 1948	31.51	May 10, 1951	38.85	May 27, 1955	42.73
Apr. 26, 1949	32.55	June 13	38.57	May 22, 1956	45.16
Jan. 11, 1950	35.20	June 4, 1952	39.09	June 4, 1957	46.04
Apr. 26	36.58	May 20, 1953	42.37	June 27, 1958	43.28
June 1	37.00	May 26, 1954	Pumping		

Well E-72

Owner: Ranger Chemical Co.

Apr. 20, 1948	30.48	Jan. 11, 1950	32.11	May 10, 1951	36.74
Dec. 10	30.50	Apr. 25	34.54	June 13	36.83
Apr. 26, 1949	30.15				



Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well E-73

Owner: Rio Grande Floral Co.

June 20, 1945	27.69	Apr. 26, 1949	30.29	May 26, 1954	41.17
June 8, 1947	31.5	Jan. 11, 1950	42.40	May 22, 1956	44.43
Jan. 23, 1948	31.63	Apr. 26	35.37	June 4, 1957	43.95
Mar. 20	30.62	June 4, 1952	38.30	June 27, 1958	Pumping
Dec. 9	30.15	May 20, 1953	40.61		

Well E-74

Owner: Hale Schalesen

Jan. 23, 1948	29.84	Apr. 26, 1950	34.05	May 27, 1955	44.12
Mar. 20	28.75	June 13, 1951	36.68	May 22, 1956	41.20
Dec. 9	29.48	June 4, 1952	37.36	June 4, 1957	43.22
Apr. 26, 1949	29.56	May 20, 1953	39.25	June 27, 1958	41.34
Jan. 11, 1950	32.70	May 26, 1954	39.76		

Well E-75

Owner: S. L. Turner

June 10, 1947	31.2	Apr. 26, 1950	34.90	May 27, 1955	43.54
Jan. 23, 1948	29.87	May 31	38.40	May 22, 1956	42.95
May 20	27.98	June 13, 1951	40.67	June 4, 1957	43.56
Apr. 26, 1949	30.80	June 4, 1952	37.92	June 27, 1958	42.53
Jan. 11, 1950	33.83	May 20, 1953	39.49		

Well E-77

Owner: Juan Medina

June 21, 1945	26.92	Mar. 22, 1948	32.47	Apr. 26, 1949	31.77
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Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well E-77--Continued					
Jan. 11, 1950	39.37	May 21, 1953	41.92	May 22, 1956	47.50
June 13, 1951	38.52	May 25, 1954	44.35	June 4, 1957	47.16
June 4, 1952	40.17	May 27, 1955	45.10	June 27, 1958	45.87

Well E-78

Owner: D. C. Pollock

Jan. 23, 1948	33.39	Apr. 26, 1950	44.19	May 27, 1955	Pumping
Mar. 21	32.18	May 31	43.34	May 22, 1956	54.62
Dec. 10	31.93	June 13, 1951	42.60	June 4, 1957	53.46
Apr. 26, 1949	32.34	June 3, 1952	50.97	June 27, 1958	52.84
Jan. 11, 1950	35.40	May 26, 1954	52.79		

Well E-80

Owner: J. P. Cruise

Jan. 23, 1948	27.89	May 10, 1951	46.72	May 27, 1955	48.43
Mar. 21	26.83	June 13	61.50	May 22, 1956	Pumping
Apr. 26, 1949	27.58	June 3, 1952	46.36	June 4, 1957	46.09
Jan. 11, 1950	30.50	May 20, 1953	47.35	June 27, 1958	Pumping
May 31	40.39	May 26, 1954	45.65		

Well E-89

Owner: G. B. Miller

Apr. 4, 1948	39.17	May 10, 1951	47.74	May 27, 1955	51.43
Apr. 27, 1949	39.08	June 13	47.80	May 22, 1956	52.72
Jan. 11, 1950	41.61	June 3, 1952	49.45	June 4, 1957	52.12
Apr. 25	43.37	May 20, 1953	49.17	June 27, 1958	Destroyed
May 29	44.08	May 26, 1954	50.43		

Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well E-90

Owner: G. B. Miller

Apr. 4, 1948	32.75	May 10, 1951	42.66	May 27, 1955	Pumping
Apr. 27, 1949	33.03	June 13	43.55	May 22, 1956	Pumping
Jan. 11, 1950	36.70	June 3, 1952	44.28	June 4, 1957	49.03
Apr. 25	39.00	May 20, 1953	44.54	June 27, 1958	48.68
May 29	39.55	May 26, 1954	45.95		

Well E-93

Owner: G. B. Miller

Jan. 24, 1948	43.72	Apr. 25, 1950	48.68	May 26, 1954	New pump cannot meas.
Mar. 21	43.62	May 29	48.72	May 22, 1956	Pumping
Dec. 10	43.58	June 13, 1951	52.56	June 4, 1957	53.87
Apr. 27, 1949	43.49	June 3, 1952	52.62	June 27, 1958	Pumping
Jan. 11, 1950	46.86	May 20, 1953	52.52		

Well E-94

Owner: Frank Gross

June 9, 1947	35.9	May 29, 1950	49.05	May 27, 1955	Pumping
Jan. 24, 1948	32.02	June 3, 1952	51.34	May 22, 1956	Pumping
Mar. 19	30.14	May 20, 1953	47.73	June 4, 1957	48.10
Dec. 10	33.59	May 26, 1954	48.60	June 27, 1958	45.74
Apr. 27, 1949	29.60				

Well E-97

Owner: W. H. Fowler

June 9, 1947	37.2	Jan. 24, 1948	35.18	Mar. 22, 1948	34.83
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Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well E-97--Continued					
Apr. 27, 1948	36.63	May 10, 1951	49.25	May 26, 1954	46.48
Jan. 12, 1950	39.64	June 13	43.81	May 27, 1955	50.17
Apr. 25	42.68	June 3, 1952	44.91	May 22, 1956	48.93
May 29	43.95	May 20, 1953	45.67	June 4, 1957	47.83

## Well E-98

Owner: W. H. Fowler

Apr. 17, 1948	52.87	May 29, 1950	57.80	May 26, 1954	62.83
Dec. 10	53.70	May 10, 1951	70.50	May 27, 1955	65.05
Apr. 27, 1949	53.35	June 13	66.98	May 22, 1956	63.57
Jan. 12, 1950	55.60	June 3, 1952	60.15	June 4, 1957	63.11
Apr. 25	57.34	May 20, 1953	60.37	June 27, 1958	63.73

## Well E-102

Owner: C. E. Villarreal

Sept. 1946	29.00	Apr. 25, 1950	39.58	May 26, 1954	44.57
Jan. 24, 1948	32.90	May 29	39.89	May 27, 1955	45.71
Mar. 22	32.62	May 10, 1951	43.57	May 22, 1956	44.73
Dec. 10	33.50	June 13	42.03	June 4, 1957	44.75
Apr. 27, 1949	33.44	June 3, 1952	42.89	June 25, 1958	42.43
Jan. 12, 1950	37.14	May 20, 1953	43.22		

## Well E-103

Owner: Taylor &amp; Latham

Mar. 22, 1948	36.40	Apr. 27, 1949	35.89	May 29, 1950	55.40
Dec. 10	34.26	Apr. 25, 1950	56.00	June 3, 1952	56.18

(Continued on next page)

Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
Well E-103--Continued					
May 20, 1953	62.46	May 27, 1955	61.17	June 4, 1957	58.10
May 26, 1954	57.66	May 22, 1956	Pumping	June 27, 1958	49.98

Well G-12

Owner: G. D. Guerra

Apr. 4, 1948	40.40	June 14, 1951	48.44	May 22, 1956	52.92
Dec. 10	37.24	June 4, 1952	42.27	June 4, 1957	45.12
Apr. 27, 1949	35.87	May 21, 1953	43.99	June 27, 1958	Destroyed
Apr. 27, 1950	42.61	May 25, 1954	44.12		
May 31	40.19	May 27, 1955	45.07		

Well G-13

Owner: R. G. Floyd

Mar. 22, 1948	34.29	June 14, 1951	34.05	May 27, 1955	38.23
Jan. 11, 1950	30.86	June 4, 1952	32.24	May 22, 1956	42.06
Apr. 27	31.90	May 21, 1953	37.35	June 4, 1957	41.51
May 31	32.00	May 25, 1954	37.97		

Well G-15

Owner: R. G. Floyd

Mar. 22, 1948	34.34	June 14, 1951	34.32	May 27, 1955	37.80
Jan. 11, 1950	30.66	June 4, 1952	31.78	May 22, 1956	41.93
Apr. 27	31.43	May 21, 1953	37.06	June 4, 1957	41.40
May 31	31.70	May 25, 1954	37.27		

Table 6.--Water levels in wells in Hidalgo County--Continued

Date	Water level	Date	Water level	Date	Water level
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Well H-2

Owner: -- Kale

Mar. 22, 1948	22.75	May 29, 1950	33.34	May 26, 1954	37.88
Dec. 10	20.79	May 10, 1951	36.96	May 27, 1955	38.49
Apr. 27, 1949	22.13	June 13	35.87	May 22, 1956	39.15
Jan. 12, 1950	28.92	June 3, 1952	37.30	June 4, 1957	38.72
Apr. 25	34.49	May 20, 1953	37.99	June 27, 1958	36.97

Well H-6

Owner: Arturo Garza

Mar. 20, 1948	26.82	May 20, 1953	41.02	May 22, 1956	41.95
Apr. 27, 1949	27.37	May 26, 1954	41.07	June 4, 1957	41.04
June 14, 1951	38.18	May 27, 1955	42.33	June 27, 1958	37.46
June 3, 1952	39.89				

TABLE 7

ANALYSES OF WATER FROM WELLS  
IN THE  
LOWER RIO GRANDE VALLEY AREA

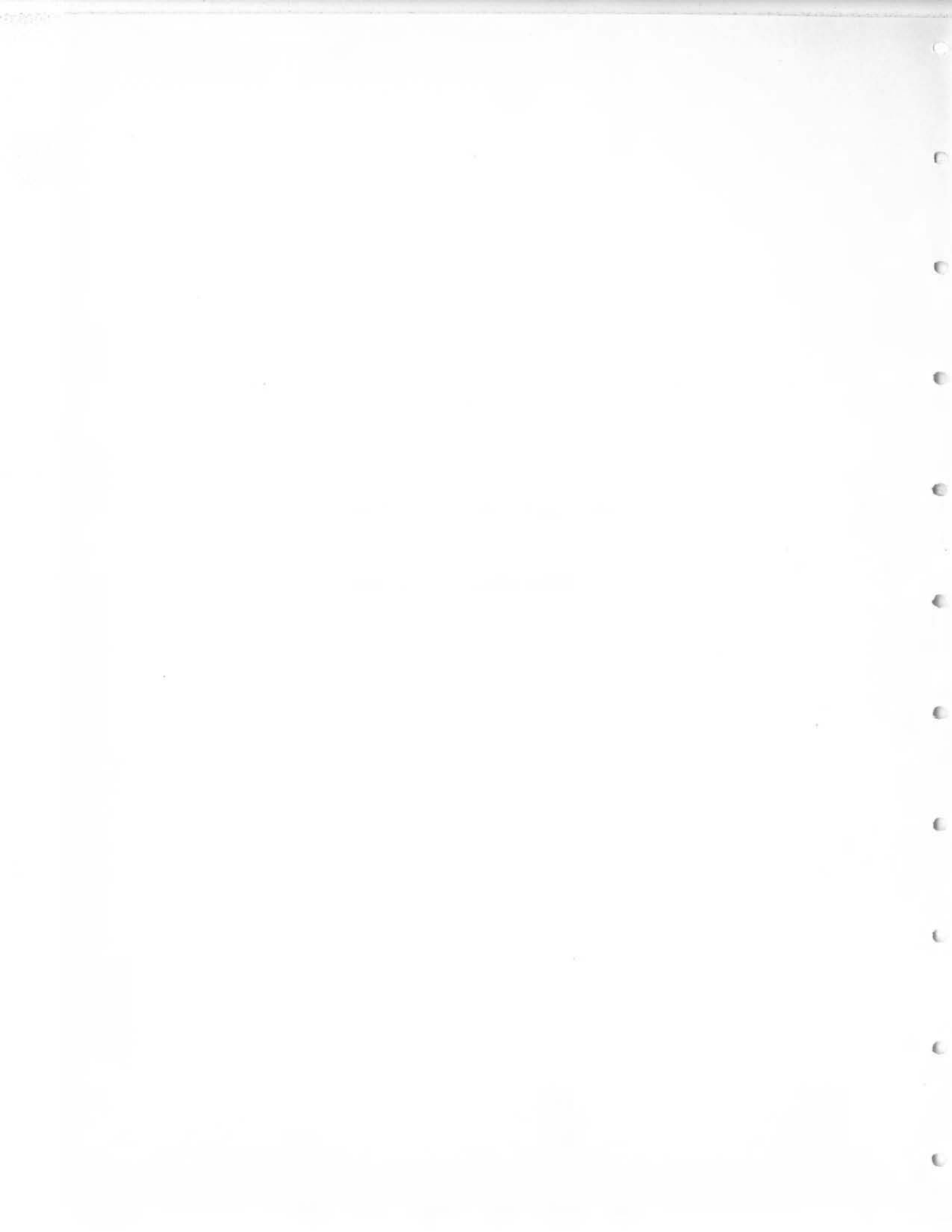




Table 7.--Analyses of water from wells in Cameron County, Texas

(Analyses given are in parts per million except specific conductance, pH, sodium adsorption ratio (SAR), and percent sodium)  
Water-bearing unit: A, alluvium; MS, Mercedes-Sebastian shallow ground-water reservoir; RG, Lower Rio Grande ground-water reservoir.

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) a/3	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
A-1	W. A. Stohl	367	RG	Jan. 30, 1952	31	74	59	1,220	-	519	937	1,170	2.2	1.0	7.7	3,760	427	86	26	5,310	7.5
A-3	do	361	RG	Feb. 15, 1952	31	69	59	1,220	-	535	933	1,170	-	.5	7.2	3,750	414	86	26	6,010	7.6
A-4	Frank Solis	25	MS	Jan. 7, 1952	54	178	78	87	-	332	156	175	.4	321	.25	1,210	764	20	1.4	1,800	8.2
A-6	Cruce Williams	300	RG	July 24, 1952	44	104	109	1,140	-	469	1,060	1,200	.6	15	5.8	3,910	708	78	19	6,250	8.5
A-7	do	27	MS	July 21, 1952	100	106	95	571	-	649	422	608	.8	81	-	2,300	655	65	9.7	3,580	7.3
A-10	A. B. White Estate	40	MS	Aug. 7, 1945	-	-	-	-	-	687	1,300	1,840	-	9.6	-	61,050	-	-	-	-	-
A-12	M. W. Nelson	366	RG	Dec. 4, 1951	24	73	62	1,320	-	549	1,060	1,240	-	.0	7.8	4,060	437	87	27	6,310	7.5
A-14	Chester Johnson	365	RG	Dec. 14, 1951	31	44	37	1,050	-	569	700	920	2.8	.5	7.2	3,070	262	90	28	4,320	7.7
A-15	do	365	RG	do	29	62	62	1,160	-	518	932	1,100	2.4	.0	7.6	3,610	410	86	25	5,580	8.1
A-16	M. A. Glese	362	RG	Dec. 10, 1951	31	36	34	948	-	513	645	860	2.8	.0	6.1	2,810	230	90	27	4,470	8.0
A-19	Fred Miller	390	RG	Jan. 14, 1952	32	43	42	1,080	-	574	757	940	2.8	.2	2.4	3,180	280	89	28	5,050	7.6
A-22	J. G. Ballinger	21	MS	Jan. 7, 1952	96	194	164	571	-	390	708	920	2.0	30	.79	2,880	1,160	52	7.3	4,370	7.9
A-23	R. B. Ballinger	20	MS	do	95	20	21	929	-	674	490	750	7.0	13	2.4	2,660	136	94	35	4,150	8.2
A-25	J. G. Ballinger	30	MS	Aug. 7, 1945	-	-	-	-	-	705	520	575	-	22	-	6285	-	-	-	-	-
A-29	E. E. Petri	254	RG	do	-	-	-	-	-	542	300	830	-	-	-	6608	-	-	-	-	-
A-30	Bob Harper	110	MS	do	-	-	-	-	-	496	500	505	-	0.4	-	6308	-	-	-	-	-
A-32	H. E. Rushing	96	MS	Aug. 6, 1945	-	-	-	-	-	498	1,100	1,010	-	.2	-	6600	-	-	-	-	-
A-34	F. H. Vahlring	697	RG	Jan. 16, 1952	32	135	81	1,230	-	309	975	1,450	0.8	.5	5.4	4,060	670	80	21	6,350	7.4
A-35	do	692	RG	do	29	83	72	1,240	-	321	1,000	1,300	1.0	.0	5.8	3,890	503	84	24	6,190	8.0
A-36	do	35	MS	Aug. 7, 1945	-	-	-	-	-	429	55	143	-	.8	-	6555	-	-	-	-	-
A-38	Thomas North	300	RG	Jan. 31, 1952	35	152	169	1,510	-	466	1,640	1,660	1.0	.5	7.6	5,400	1,070	75	20	7,920	7.2
A-41	Otho A. Wyrick	14	MS	Jan. 14, 1952	47	104	59	389	-	403	432	418	.9	5.0	1.2	1,650	502	63	7.6	2,630	7.9
B-3	F. Armendiaz Estate	30	MS	July 23, 1952	52	83	40	272	-	472	251	210	.0	5.0	1.3	1,140	372	61	6.2	1,640	7.5
B-7	C. Hext	20	MS	Aug. 7, 1945	-	-	-	-	-	408	260	522	-	.0	-	6818	-	-	-	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (microhmhos at 25°C)	pH
B-9	H. E. Butt	-	MS	Nov. 17, 1952	40	350	156	731	400	757	1,420	-	5.6	1.2	3,660	1,520	51	8.2	5,700	7.7
B-11	Lucio Perez	27	MS	July 21, 1952	98	72	71	341	541	266	338	1.6	14	-	1,470	472	61	6.9	2,330	7.5
B-13	Roy Johnson	35	MS	Aug. 6, 1945	-	-	-	-	310	340	279	-	.5	-	-	b382	-	-	-	-
C-2	Honace Grissom	16	A?	June 30, 1945	-	82	25	74	426	19	71	-	.2	-	551	308	-	1.9	-	-
E-1	H. S. Norman	206	RG	Aug. 8, 1945	-	102	70	608	397	892	740	-	.8	-	2,810	542	-	15	-	-
E-2	Wilson School	55	MS	June 16, 1945	-	144	90	228	285	382	420	-	1.2	-	1,410	730	-	3.7	-	-
E-4	Earl Berry	200	RG	June 23, 1952	43	34	23	465	538	379	242	2.0	2.5	1.8	1,460	180	85	15	2,320	8.3
E-7	Willi McCorkle	243	RG	Oct. 28, 1952	36	28	15	304	474	213	122	-	.0	.82	968	132	83	12	1,490	7.8
E-9	A. L. Allen	26	MS	Aug. 8, 1945	-	-	-	-	255	220	219	-	0.0	-	-	b315	-	-	-	-
E-11	E. N. Keeton	34	MS	June 19, 1945	-	-	-	-	130	220	291	-	1.8	-	-	b638	-	-	-	-
E-16	Willis Seward	240	RG	July 3, 1952	34	31	18	348	488	260	160	2.0	.0	1.8	1,090	192	83	12	1,780	8.3
E-17	C. O. Moore	238	RG	July 7, 1952	34	115	59	498	300	322	718	.6	2.5	1.2	1,900	530	67	9.4	3,230	7.5
E-18	N. M. Groves	35	MS	July 9, 1952	44	116	40	200	292	267	250	2.0	2.0	.44	1,070	454	49	4.1	1,720	7.4
E-19	J. C. Dunn	216	RG	June 16, 1945	-	75	36	422	371	429	356	-	1.0	-	1,500	335	-	10	-	-
E-20	Adams Gardens Food Products Co.	520	RG	June 9, 1945	-	95	53	862	307	905	805	-	.0	-	2,870	455	-	18	-	-
E-21	D. G. Dill	23	MS	Aug. 4, 1945	-	-	-	-	694	900	1,050	-	.4	-	-	b870	-	-	-	-
E-22	Henry Sepp	40	MS	June 16, 1945	-	54	12	391	375	337	264	-	3.8	-	1,250	184	-	12	-	-
E/E-23	City of La Feria	267	RG	June 19, 1952	33	90	46	447	474	451	372	1.2	3.0	1.8	1,680	414	70	9.5	2,680	7.7
E/E-25	do	242	RG	do	34	100	49	502	426	520	462	1.4	1.8	1.8	1,880	451	71	10	2,990	7.6
E-28	Paul Davies	242	RG	Aug. 4, 1945	-	180	88	417	390	686	485	-	.2	-	2,050	811	-	6.4	-	-
E-29	H. G. McCrum	218	RG	June 15, 1945	-	61	57	495	410	569	378	-	1.8	-	1,760	386	-	11	-	-
E-30	Sid Berly	214	RG	July 17, 1952	34	102	74	475	143	764	475	.0	1.0	1.4	2,000	559	65	8.7	3,260	7.9
E-31	do	278	RG	July 2, 1952	34	72	37	375	431	438	240	1.2	.5	1.2	1,410	332	71	9.0	2,230	7.8
E-32	B. H. Dunlap	229	RG	Oct. 30, 1952	36	108	60	472	365	662	400	-	.0	1.2	1,920	516	67	9.0	2,890	7.8
E-34	Martin Palmer	214	RG	Oct. 9, 1952	42	42	27	189	290	233	108	-	2.2	.47	787	216	66	5.5	1,330	8.2
E/E-35	T. S. Wallace	201	RG	July 3, 1945	-	81	32	242	420	308	138	-	1.5	-	1,010	334	-	5.6	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
E-36	John Weckl	350	RG	Feb. 20, 1952	32	55	28	492	524	505	260	-	0.5	2.2	1,630	252	81	14	2,560	7.5
E-37	Carl Zeitler	217	RG	June 20, 1945	-	22	21	535	264	815	170	-	.5	-	1,690	142	-	20	-	-
E-38	Bob Hall	225	RG	Aug. 19, 1952	35	74	34	345	405	435	200	1.2	.5	.95	1,320	324	70	8.3	2,070	7.9
E-39	do	155	RG	Oct. 15, 1952	44	106	40	273	424	300	250	-	3.5	.24	1,220	429	58	5.7	1,960	7.9
E-40	Sid Berly	228	RG	July 2, 1952	34	59	29	333	448	334	201	1.2	.0	1.2	1,210	266	73	8.9	1,940	7.7
E-42	do	255	RG	do	36	108	46	362	383	506	282	1.0	1.0	.90	1,530	458	63	7.3	2,440	7.7
E-43	H. C. Lewis	159	RG	Jan. 15, 1952	47	76	32	226	454	179	168	.7	2.2	.20	954	321	60	5.5	1,530	7.6
E-46	Felix Till	155	RG	Sept. 2, 1952	44	51	21	119	254	144	79	1.0	.5	.27	585	214	55	3.5	1,000	8.0
E-47	Richard Rowland	175	RG	do	43	53	30	194	324	249	112	1.0	.5	.46	842	256	62	5.3	1,430	8.0
E-48	Steve Hobeck	160	RG	Jan. 31, 1952	36	50	22	260	449	197	145	.8	.8	1.0	934	216	72	7.8	1,480	7.5
E-50	L. L. Lawson	222	RG	Sept. 4, 1952	47	127	36	298	408	361	270	.8	.0	.45	1,340	465	58	6.0	2,130	7.6
d/E-51	City of Harlingen	170	RG	Apr. 29, 1952	47	88	31	225	430	254	162	.8	.0	.37	1,020	347	58	5.3	1,610	7.6
E-53	Mrs. J. A. Morgan	141	RG	June 21, 1945	-	125	38	196	415	285	182	-	.0	-	1,030	468	-	3.9	-	-
E-54	Dave Morgan	172	RG	Sept. 4, 1952	45	65	31	207	349	244	132	.8	3.0	.30	900	290	61	5.3	1,520	8.0
E-55	Sid Berly	205	RG	July 2, 1952	46	157	58	209	315	426	392	.8	4.0	.33	1,530	630	50	5.0	2,520	7.8
E-56	Bob Hall	160	RG	Oct. 9, 1952	44	174	60	266	218	449	445	-	5.4	.48	1,550	680	46	4.4	2,640	7.8
E-57	John Benson	162	RG	Jan. 17, 1952	42	67	35	194	231	249	202	.6	3.2	.76	908	311	58	4.8	1,680	7.9
E-58	H. C. Lewis	164	RG	Jan. 31, 1952	46	112	39	164	452	219	140	0.6	0.0	0.60	943	440	45	5.4	1,470	7.9
E-59	A. J. Phillips	164	RG	do	47	108	38	155	431	178	147	.6	3.2	.54	889	426	44	3.3	1,440	7.5
E-60	do	149	RG	June 20, 1945	-	-	-	-	361	180	138	-	3.8	-	-	b384	-	-	-	-
E-64	J. C. Dunn	155	RG	June 16, 1945	-	-	-	-	196	240	100	-	3.8	-	-	b234	-	-	-	-
E-65	Cardell Gunn	167	RG	June 18, 1952	40	110	38	129	418	219	97	1.0	3.0	.45	859	430	39	2.7	1,330	7.4
E-66	Paul Merten	162	RG	Oct. 13, 1952	45	148	40	135	412	311	120	-	3.0	.35	1,010	534	35	2.5	1,500	7.9
F-68	City of Harlingen	168	RG	July 18, 1957	48	124	40	283	6.6	401	337	.9	2.0	.58	1,370	474	56	5.6	2,150	7.7
c/E-69	do	165	RG	Sept. 28, 1953	45	146	45	283	8.2	410	390	.5	4.2	.30	1,430	550	52	5.2	2,230	7.3

See footnotes at end of table.

Table 7.--Analyses of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>Δ</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
c/E-70	City of Harlingen	163	RG	Sept. 28, 1953	48	131	45	294	8.1	363	413	308	.5	5.2	.46	1,430	512	55	5.7	2,230	7.7
c/E-71	do	222	RG	do	45	121	43	241	6.4	341	355	258	.6	2.5	.50	1,240	479	52	4.8	1,940	7.4
c/E-72	do	166	RG	do	45	80	28	238	5.5	425	261	155	.8	2.5	.65	1,030	314	62	5.8	1,600	7.6
e/E-73	do	169	RG	do	41	165	58	314	7.4	379	486	385	.7	5.4	.53	1,650	650	51	5.4	2,540	7.5
E-76	C. J. Hoverson	35	RG	June 20, 1945	-	102	21	161	-	188	231	211	-	.0	-	914	341	-	7.5	-	-
F-1	D. B. Meadows	16	MS	Jan. 14, 1952	47	132	60	415	-	462	449	450	.9	5.0	.87	1,790	576	61	7.5	2,760	7.8
f/F-2	Mrs. Doris Templeton	32	MS	June 13, 1945	32	114	37	325	8.8	418	356	308	1.0	5.4	-	1,390	436	-	6.8	2,170	7.2
F-3	Jose Chavez, Jr.	40	MS	Sept. 8, 1952	50	110	45	178	-	304	280	208	2.0	.5	.57	1,020	460	46	3.6	1,640	7.6
F-5	Pedra Chevez	40	MS	do	42	91	31	169	-	304	206	172	1.2	.0	.36	862	354	51	3.9	1,410	7.6
g/F-8	U. S. Government	1,012	-	Mar. --, 1944	15	23	3.8	823	-	193	1,020	451	2.1	1.2	-	2,430	73	-	41	-	8.4
F-9	Felix Puga	14	MS	July 5, 1945	-	-	-	-	-	370	400	230	-	0.4	-	-	b585	-	-	-	-
F-11	G. A. Lovelace	30	MS	July 12, 1945	-	18	13	597	-	520	583	257	-	.0	-	1,720	98	-	26	-	-
F-18	H. Horton	223	RG	June 18, 1945	-	-	-	-	-	127	1,500	1,080	-	-	-	-	b848	-	-	-	-
F-19	T. J., Wallace	135	RG	June 21, 1945	-	147	79	438	-	356	661	470	-	1.8	-	1,970	692	-	7.3	-	-
F-20	C. E. Morgan	225	RG	June 22, 1945	-	304	162	923	-	465	1,450	1,090	-	2.8	-	4,160	1,420	-	11	-	-
F-22	G. B. Smith	253	RG	Apr. 30, 1952	34	168	87	514	-	337	706	630	-	.2	1.7	2,310	776	59	8.0	3,610	7.4
F-23	Tomas Pena	160	RG	June 21, 1945	-	174	96	528	-	328	695	695	-	3.0	-	2,350	828	-	8.0	-	-
F-24	O. W. Axtell	215	RG	do	-	164	76	456	-	363	657	518	-	2.2	-	2,050	722	-	7.4	-	-
F-27	L. R. Mortesen	218	RG	July 16, 1952	34	102	52	535	-	370	598	482	0.2	1.0	2.2	1,990	468	71	11	3,140	7.5
F-34	Alexander Marketing Co.	230	RG	Jan. 22, 1952	33	58	46	548	0	376	552	475	1.0	.2	2.7	1,910	334	78	13	3,060	8.3
F-35	Ernest Long	171	RG	June 26, 1952	45	216	122	1,150	-	314	1,100	1,520	1.0	5.0	2.9	4,320	1,040	71	16	6,780	7.8
F-36	W. Mack	180	RG	Oct. 1, 1952	38	98	59	889	-	437	917	810	-	1.0	3.5	3,030	487	80	18	4,630	7.5
h/F-38	M. H. Scaief	198	RG	June 23, 1952	31	80	51	790	-	436	818	650	1.4	.8	3.2	2,640	409	81	17	4,110	7.7
g/F-39	City of San Benito	226	RG	June 13, 1952	35	68	47	524	-	405	640	358	1.4	.0	2.1	1,870	363	76	12	2,910	7.7
F-41	Mrs. M. Yost	130	RG	July 2, 1945	-	-	-	-	-	348	450	316	-	3.0	-	-	b338	-	-	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) a/	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
F-43	E. Hurtle	135	RG	July 6, 1945	-	-	-	-	394	360	239	-	7.9	-	-	6411	-	-	-	-
F-44	D. H. Palmer	166	RG	May 20, 1952	45	111	43	338	385	433	295	1.0	4.5	1.3	1,460	454	62	6.9	2,280	7.7
F-45	V. E. Morrow	262	RG	Aug. 19, 1952	32	70	34	371	359	400	298	1.0	0.5	1.1	1,380	314	72	9.1	2,280	7.6
F-49	O. L. Waldrap	155	RG	July 10, 1945	-	-	-	-	311	280	144	-	4.7	-	-	6262	-	-	-	-
F-50	B. F. Morrow	163	RG	Aug. 20, 1952	45	163	56	361	407	454	432	1.0	.5	.70	1,710	637	55	6.2	2,750	7.7
F-51	D. C. Hance	144	RG	July 6, 1945	-	91	48	298	263	431	287	-	4.8	-	1,290	424	-	6.3	-	-
F-52	M. D. Hance	178	RG	Sept. 3, 1952	45	97	35	303	401	359	235	1.0	.0	1.0	1,270	386	63	6.7	2,010	7.7
F-53	L. M. Mikklesen	185	RG	May 20, 1952	50	89	38	294	392	310	268	1.0	5.0	1.1	1,250	378	63	6.6	1,970	7.3
F-54	T. Oyama	200	RG	do	46	100	42	296	376	335	292	.8	5.0	1.1	1,300	422	60	6.3	2,060	7.3
F-55	Ray McDonald	212	RG	Oct. 6, 1942	43	118	46	322	401	389	305	.8	.0	.75	1,420	484	59	6.4	2,240	8.0
F-58	G. W. McCain	18	RG	July 2, 1945	-	128	47	205	213	345	293	-	15	-	1,140	513	-	3.9	-	-
F-59	John Kuhar	150	RG	Aug. 12, 1952	53	155	83	529	218	694	698	.0	1.5	1.1	2,320	728	61	8.5	3,890	7.9
F-60	Joe M. Spear	162	RG	Aug. 3, 1952	49	160	80	511	248	653	665	.0	9.2	1.2	2,250	728	60	8.2	3,750	7.8
F-61	G. W. McCain	386	RG	May 5, 1952	34	115	75	566	390	838	450	-	.0	-	2,270	586	67	9.7	3,400	7.7
F-62	do	310	RG	May 21, 1952	32	44	31	444	388	399	325	1.4	.2	1.6	1,470	238	80	12	2,390	7.8
F-63	G. W. Gamble	328	RG	Jan. 9, 1952	31	112	69	632	362	851	560	.7	.5	1.9	2,440	563	71	12	3,660	7.7
F-64	E. J. Johnson	48	RG	July 2, 1945	-	107	29	231	296	304	233	-	.5	-	1,050	386	-	5.1	-	-
F-65	L. A. Perkins	136	RG	do	-	154	52	367	368	467	430	-	3.6	-	1,650	598	-	6.5	-	-
F-67	M. T. Rodriguez	70	RG	do	-	142	51	426	456	508	415	-	2.2	-	1,770	564	-	7.8	-	-
F-70	L. M. Mikklesen	190	RG	May 21, 1952	47	102	40	284	374	310	285	1.0	4.5	-	1,260	419	60	6.0	2,030	7.5
F-71	do	180	RG	May 20, 1952	46	84	33	263	412	292	200	1.2	3.2	1.0	1,130	345	62	6.2	1,770	7.3
F-74	S. Oyama	206	RG	Sept. 2, 1952	42	75	28	280	395	287	208	1.2	6.9	.79	1,120	302	67	7.0	1,790	7.3
F-75	T. Date	200	RG	Oct. 2, 1952	47	95	32	252	404	254	215	.8	5.0	.81	1,100	368	60	5.7	1,770	8.1
F-77	Kenneth Shimotsu	203	RG	Oct. 21, 1952	50	108	64	493	220	581	570	-	.2	.87	1,980	532	67	9.3	3,310	7.9
F-78	Louis Stanley	176	RG	May 8, 1952	42	172	73	650	368	705	770	-	.5	1.5	2,590	729	66	11	4,160	7.3
F-80	George Oyama	201	RG	Aug. 18, 1952	41	122	51	372	433	408	380	1.0	4.0	1.1	1,590	514	61	7.1	2,570	7.8
F-82	T. J. Thomas	25	RG	July 2, 1945	-	148	32	201	370	286	238	-	2.5	-	1,090	501	-	3.9	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> ) (GK)	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Ferrous-sodium ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
F-83	Oscar Thiems	168	RG	Sept. 3, 1952	43	280	115	537	-	387	1,200	.6	6.0	.61	2,700	1,170	50	4,710	7.7
G/F-94	City of San Benito	228	RG	Sept. 11, 1953	34	40	34	434	4.6	435	302	1.2	.0	1.8	1,470	240	79	2,340	7.9
G/F-95	do	242	RG	do	34	48	32	449	4.6	391	328	1.3	.2	1.6	1,490	292	79	2,380	7.6
G-2	Heston & Calloway	127	-	July 3, 1952	52	59	87	1,020	-	986	1,120	.4	5.0	2.9	3,420	504	81	5,770	8.2
G-5	August Pfeiffer	30	A	July 11, 1945	-	-	-	-	-	240	254	-	.0	-	-	6420	-	-	-
J-1	Santa Maria Independent School District	161	RG	Apr. 17, 1941	-	139	37	136	424	173	127	-	2.4	-	823	499	-	-	-
J-1	do	161	RG	June 9, 1945	-	156	41	103	402	207	167	-	2.2	-	874	598	-	1.9	-
J-3	H. C. Lewis	159	RG	Jan. 16, 1952	46	92	35	159	-	452	182	1.0	3.2	.43	844	374	48	1,300	7.6
J-4	do	167	RG	Jan. 21, 1952	49	106	36	152	-	460	170	.6	3.5	.72	874	412	44	1,390	7.4
J-5	John Benson	174	RG	Jan. 17, 1952	47	162	51	241	-	398	295	0.6	4.5	0.62	1,370	614	46	2,120	7.4
J-7	Cook & Hervey	180	RG	Oct. 9, 1952	51	78	32	179	-	402	223	-	1.8	.34	879	326	54	1,360	7.6
J-8	Leo Smith	172	RG	Sept. 3, 1952	48	47	22	210	-	343	207	1.0	3.5	.49	816	208	69	1,360	8.2
J-10	H. C. Lewis	165	RG	Feb. 20, 1952	48	98	35	149	-	478	174	-	3.2	.44	845	388	45	1,330	7.5
J-11	L. A. Kerr	156	RG	June 9, 1945	-	91	27	46	283	86	80	-	2.8	-	516	338	-	1.1	-
J-12	J. C. Dunn	180	RG	June 16, 1952	45	104	29	107	-	455	105	.8	3.5	.25	719	378	38	1,170	7.6
J-13	do	10	RG	do	-	-	-	-	-	-	1,860	Field determination		-	-	-	-	-	-
J-14	Mrs. M. A. Reed	145	RG	Aug. 4, 1945	-	-	-	-	-	355	140	-	.0	-	-	6360	-	-	-
J-15	Vick Peters	135	RG	June 15, 1945	-	92	33	105	389	121	104	-	3.8	-	673	365	-	2.4	-
J-16	Dale Mock	172	RG	Oct. 30, 1952	48	88	28	113	-	370	153	-	.2	.15	706	334	42	1,080	7.6
J-17	A. E. Matz	151	RG	Aug. 29, 1952	53	83	45	217	-	346	144	.8	4.5	.51	1,070	384	55	1,760	7.8
J-18	John Benson	187	RG	Jan. 5, 1953	47	112	38	96	-	480	136	-	.0	.09	752	436	32	1,170	7.6
J-20	F. J. Anderson	110	RG	July 3, 1945	-	58	36	140	253	211	118	-	2.8	-	773	292	-	3.5	-
J-21	J. Tammachi	139	RG	Apr. 17, 1941	-	151	48	221	392	335	272	-	2.0	-	1,220	574	-	4.0	-
J-24	San Benito Water District	160	RG	July 3, 1945	-	67	30	168	365	165	129	-	2.5	-	834	290	-	4.3	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a/</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
K-1	Emil Kaufman	151	RG	July 2, 1945	-	70	23	151	333	149	117	-	4.9	-	712	269	-	4.0	-	-
K-2	Cecil Graham	150	RG	do	-	82	37	288	277	363	265	-	5.0	-	1,180	356	-	6.6	-	-
K-3	L. C. Poth	290	RG	May 13, 1952	43	118	49	428	455	512	380	-	.0	0.88	1,750	496	65	8.4	2,780	7.6
K-4	F. H. Wilson	177	RG	June 25, 1952	44	126	46	427	455	494	380	0.8	5.0	.96	1,750	504	65	8.8	2,730	7.6
K-5	do	185	RG	July 1, 1952	45	122	43	423	423	485	402	.8	4.5	.66	1,730	482	66	8.4	2,830	8.0
K-6	Pilar Cabrera	303	RG	Oct. 22, 1952	44	98	52	646	370	788	530	-	.2	1.5	2,340	458	75	28	3,610	7.9
K-7	Barreda Estate	235	RG	Oct. 2, 1952	41	135	72	1,030	342	1,160	975	1.0	.5	2.1	3,580	633	78	18	5,430	7.8
K-8	Joe Ballinger	204	RG	Jan. 8, 1952	50	112	63	626	399	812	500	.6	4.0	1.0	2,360	538	72	12	3,600	7.7
K-9	Reynaldo Santise	204	RG	June 26, 1952	51	122	64	689	389	915	580	1.0	.0	1.7	2,610	568	72	13	4,090	7.9
K-10	G. B. Smith	174	RG	May 5, 1952	45	76	36	417	438	537	242	-	.0	.90	1,570	338	73	9.9	2,400	8.0
K-11	O. W. Tucker	200	RG	Oct. 30, 1952	46	68	28	322	437	326	192	-	3.5	.50	1,200	284	71	8.3	1,830	7.5
K-12	Bert Crawford	184	RG	Oct. 2, 1952	47	104	39	299	460	386	210	-	4.6	.53	1,320	420	61	6.3	2,010	8.1
K-16	Ricardo Aquilar	174	RG	Oct. 13, 1952	46	102	35	97	412	142	82	-	.2	.08	725	398	35	2.1	1,120	7.8
K-18	Mrs. A. D. Dickinson	173	RG	do	40	-	-	-	-	123	82	-	-	-	-	-	-	-	1,180	-
K-19	Eugene Kaufman	140	RG	July 3, 1945	-	110	54	246	469	443	130	-	2.8	-	1,220	496	-	4.8	-	-
K-20	W. H. Glidewell	171	RG	do	-	111	44	167	357	248	190	-	3.5	-	939	458	-	3.4	-	-
K-22	Landrum School	135	RG	Apr. 18, 1941	-	121	34	62	448	80	89	-	.2	-	607	442	-	1.3	-	-
K-23	La Palema School	150	RG	do	-	87	39	364	440	464	228	-	4.8	-	1,400	377	-	8.1	-	-
K-24	H. D. Smith	170	RG	July 6, 1945	-	-	-	-	422	600	495	-	7.8	-	-	6600	-	-	-	-
K-27	Carlos Zepeda	275	RG	Nov. 17, 1952	38	60	27	280	494	296	112	-	.2	0.54	1,060	260	70	7.6	1,630	7.7
K-28	Encantada School	150	RG	Apr. 17, 1941	-	113	22	59	340	127	62	-	2.5	-	553	373	-	1.3	-	-
K-29	Valley Christian Encampment	270	RG	Nov. 20, 1952	37	141	64	701	505	947	530	-	.2	.94	2,670	615	71	12	3,940	7.5
K-31	Ben Benson	290	RG	June 25, 1952	36	58	28	485	495	482	278	1.0	2.0	1.4	1,610	260	80	13	2,530	7.9
1/K-32	L. T. Boswell	279	RG	Feb. 2, 1950	33	79	45	535	517	670	312	-	.2	.78	1,930	382	75	12	2,920	7.6
K-33	Ben Benson	272	RG	June 23, 1952	33	82	43	614	495	729	388	.8	.2	1.8	2,140	382	78	14	3,270	7.6
k/K-34	J. T. Canales	302	RG	Feb. 21, 1950	32	66	35	439	487	491	255	-	.0	.19	1,560	308	76	11	2,380	7.5

See footnotes at end of table.

Table 7.--Analyses of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
1/K-35	J. T. Canales	250	RG	Feb. 20, 1950	35	70	36	404	-	513	423	238	-	.2	.35	1,460	322	73	9.8	2,280	7.6
m/K-36	L. T. Boswell	286	RG	do	34	168	80	612	-	466	888	535	-	.0	1.3	2,550	748	64	9.7	3,780	7.4
K-37	do	345	RG	June 23, 1952	36	58	45	683	-	448	805	438	1.0	2.5	2.4	2,290	330	82	16	3,600	8.1
K-38	Pilar Cabrera	286	RG	June 24, 1952	33	38	33	567	-	485	603	312	1.0	2.0	2.6	1,830	230	84	16	2,900	8.1
K-40	J. T. Canales	275	RG	Feb. 20, 1950	31	44	26	435	-	550	392	225	-	.2	.86	1,420	217	81	13	2,200	7.7
K-41	Carlos Watson	276	RG	June 23, 1952	34	111	60	790	-	501	894	650	1.0	.0	2.1	2,790	524	77	15	4,300	7.5
K-42	do	220	RG	June 24, 1952	36	72	47	502	-	472	528	355	1.0	3.0	1.3	1,780	373	75	11	2,790	7.7
K-43	Raul Lopez	275	RG	June 23, 1952	33	58	29	560	-	527	547	342	1.0	1.2	2.2	1,830	264	82	15	2,910	7.6
K-44	Mrs. J. T. Canales	240	RG	Feb. 21, 1950	37	94	32	87	-	433	101	72	-	.0	.34	657	366	34	2.0	1,050	7.5
K-47	J. T. Canales	328	RG	do	34	122	73	628	-	394	606	700	-	.0	-	2,360	604	69	11	3,700	8.1
K-48	Villa Nueva School	206	RG	July 6, 1945	-	-	-	-	-	302	170	115	-	-	-	b234	-	-	-	-	-
K-49	Jose Vesterro	192	RG	Apr. 18, 1941	-	40	22	214	-	432	150	103	-	0.2	-	742	190	-	6.7	-	-
n/K-50	Jesus Costellano	280	RG	June 23, 1952	36	108	68	838	-	465	1,030	675	1.0	.2	2.2	2,990	549	77	16	4,520	7.9
L-2	E. Y. Wingate	164	RG	July 10, 1945	-	159	64	617	-	206	966	582	-	8.3	-	2,500	660	-	10	-	-
L-3	Continental Pipeline Co.	65	RG	do	-	-	-	-	-	311	1,200	950	-	8.8	-	-	b780	-	-	-	-
L-4	L. F. Wilkinson	170	RG	1950	-	-	230	387	-	515	1,344	1,241	-	-	-	4,480	1,916	-	-	-	-
L-5	Hall Palmer	200	A	Oct. 2, 1952	47	156	78	1,400	-	559	1,210	1,420	1.0	.5	2.4	4,590	710	81	23	7,030	7.5
L-7	John Prentiss	173	RG	July 11, 1952	47	164	68	835	-	530	1,080	672	.0	10	2.2	3,140	688	73	14	4,720	7.5
L-9	L. F. Wilkinson	300	RG	July 22, 1952	36	105	50	832	-	536	938	610	.0	2.0	-	2,840	468	79	17	4,330	7.9
L-11	A. H. Fernandez	302	RG	Oct. 5, 1952	42	148	63	883	-	489	1,100	700	.8	.2	2.3	3,180	628	75	15	4,750	7.6
L-13	Balbino Rego	311	RG	June 26, 1952	39	80	56	758	-	335	961	575	.8	4.5	2.0	2,640	430	79	16	4,150	8.0
L-14	R. Grand-Lienard	280	RG	July 2, 1952	20	82	49	648	-	449	798	438	.8	2.5	1.6	2,260	406	78	14	3,500	8.1
L-15	R. O. Thuem	296	RG	June 27, 1952	37	42	32	563	-	481	573	328	.8	2.0	1.6	1,820	236	84	16	2,930	8.2
L-19	E. S. Wilson	14	RG	July 11, 1945	-	-	-	-	-	392	1,900	542	-	5.0	-	-	b1,100	-	-	-	-
L-20	A. H. Fernandez	230	RG	Sept. 10, 1952	34	48	30	562	-	496	507	360	1.4	2.0	1.6	1,790	244	83	16	2,820	7.9

See footnotes at end of table.



Table 7.--Analyse of water from wells in Cameron County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sup>a</sup>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Ferrous-iron ratio (SAR)	Specific conductance (microhmios at 25°C)	pH	
L-23	George Bingley	190	RG	Aug. 29, 1952	36	24	16	494	553	372	265	2.2	1.0	1.7	1,480	126	90	19	2,420	8.5
L-24	M. G. Ortiz	165	RG	June 14, 1945	-	54	39	904	442	711	820	-	2.2	-	2,750	296	-	23	-	-
L-25	H. B. Fleming	204	RG	Sept. 3, 1945	-	57	22	668	570	588	430	-	.5	-	2,050	233	-	19	-	-
L-26	B. Castro	212	RG	June 19, 1945	-	-	-	-	618	420	540	-	1.2	-	-	285	-	-	-	-
L-29	City of Brownsville	200	RG	Oct. 22, 1952	34	35	25	652	595	523	415	1.8	.8	1.9	1,980	190	88	21	3,090	7.7
L-30	do	203	RG	Oct. 29, 1952	34	35	24	655	511	513	420	1.4	.2	2.7	1,980	186	88	21	3,040	7.6
L-31	Abraham Lonoria	40	RG	July 11, 1945	-	-	-	-	117	950	865	-	8.4	-	-	1,220	-	-	-	-
L-33	City of Brownsville	194	RG	Oct. 6, 1953	36	52	36	766	6.3	669	580	1.8	.0	1.9	2,430	278	85	20	3,800	7.7
L-35	do	197	RG	do	36	34	25	546	5.1	471	295	1.8	.0	1.5	1,700	188	86	17	2,700	7.8
L-36	do	203	RG	do	34	26	18	574	4.6	465	300	2.0	.0	1.5	1,720	139	90	20	2,700	7.9
L-38	do	200	RG	do	34	23	16	555	4.4	426	308	1.8	.0	1.5	1,650	124	90	22	2,640	8.2
N-2	R. E. McCaslin	5	A <sup>b</sup>	Jan. 7, 1953	22	96	72	283	-	69	572	.8	.8	-	1,280	536	53	5.3	2,400	7.9

<sup>a</sup>/ Includes the equivalent of any carbonate (CO<sub>3</sub>) present.

<sup>b</sup>/ Hardness by soap method.

<sup>c</sup>/ Iron (Fe), 0.00.

<sup>d</sup>/ Iron (Fe), 0.03.

<sup>e</sup>/ Iron (Fe), 0.01.

<sup>f</sup>/ Iron (Fe), 0.11.

<sup>g</sup>/ Iron (Fe), 0.03.

<sup>h</sup>/ Iron (Fe), 2.9.

<sup>i</sup>/ Iron (Fe), 0.09.

<sup>j</sup>/ Iron (Fe), 0.17.

<sup>k</sup>/ Iron (Fe), 0.38.

<sup>l</sup>/ Iron (Fe), 0.08.

<sup>m</sup>/ Iron (Fe), 0.13.

<sup>n</sup>/ Iron (Fe), 0.05.

<sup>o</sup>/ Iron (Fe), 0.05.

<sup>p</sup>/ Iron (Fe), 0.04.

<sup>q</sup>/ Iron (Fe), 0.01.

Table 7.--Analyses of water from wells in Hidalgo County, Texas

(Analyses given are in parts per million except specific conductance, pH, sodium adsorption ratio (SAR), and percent sodium).  
 Water-bearing unit: G, Goliad sand; GL, Goliad sand and Lissie formation, undifferentiated; LF, Linn-Faysville ground-water reservoir;  
 MS, Mercedes Sebastian, shallow ground-water reservoir; RG, Lower Rio Grande ground-water reservoir.

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a/3</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
A-5	L. J. Lipps	450	G	Apr. 16, 1941	-	44	24	302	268	99	385	-	-	-	986	208	-	9.1	-	-
A-6	do	535	G	do	-	30	16	325	274	96	362	-	14	-	978	141	-	12	-	-
A-7	do	648	G	do	-	14	6.3	382	260	111	398	-	4.0	-	1,040	61	-	21	-	-
A-8	do	80	G	do	-	22	10	546	232	156	660	-	-	-	1,510	96	-	24	-	-
A-17	McAllen Ranch	648	G	Aug. 10, 1939	-	-	-	-	249	164	490	-	-	-	-	b32	-	-	-	-
A-23	Santos Casas	97	G	Aug. 31, 1939	-	-	-	-	548	176	310	-	36	-	-	b186	-	-	-	-
A-25	Placedo Casas	40	G	do	-	29	16	274	384	91	211	-	34	-	844	138	-	10	-	-
B-3	King Ranch	552	G	Apr. 16, 1941	-	48	20	482	228	572	330	-	.5	-	1,570	202	-	15	-	-
B-4	do	604	G	do	-	12	5.0	306	280	36	318	-	.0	-	815	50	-	19	-	-
B-6	do	802	G	do	-	142	47	782	146	1,380	495	-	.0	-	2,910	548	-	15	-	-
B-11	do	516	G	do	-	19	9.4	321	312	103	298	-	.8	-	905	86	-	15	-	-
B-12	D. G. Guerra	792	G	do	-	92	37	669	176	684	695	-	.0	-	2,260	382	-	15	-	-
C-2	G. Perez	85	G	Aug. 31, 1939	-	59	32	395	564	236	280	1.5	38	-	1,320	279	-	10	-	-
C-5	Roberto Zamora	72	G	Aug. 14, 1957	68	142	79	498 15	239	186	950	-	30	1.4	2,090	680	61	8.3	3,550	7.5
C-6	F. R. Barrera	75	G	Aug. 31, 1939	-	114	63	383	174	145	755	1.1	18	-	1,570	543	-	7.1	-	-
C-10	Alfredo Rodriguez	72	G	Sept.--, 1939	-	-	-	-	334	36	158	-	12	-	-	b76	-	-	-	-
C-14	Anita Casas	97	G	Aug. 19, 1957	-	-	-	-	373	-	280	-	-	-	-	223	-	-	1,670	8.4
C-16	Marties Pena	125	G	Sept.--, 1939	-	-	-	-	362	71	430	-	17	-	-	b300	-	-	-	-
C-18	Antonio Perez	115	G	Aug. 31, 1939	-	58	41	306	566	253	515	1.3	28	-	1,480	313	-	7.5	-	-
C-21	Dario Perez	130	G	do	-	-	-	-	-	655	2,070	-	-	-	-	-	-	-	-	-
C-28	E. Vrana	300	G	Sept. 2, 1939	-	-	-	-	282	649	1,550	-	25	-	-	b878	-	-	-	-
C-30	Theodore Tice	423	G	Aug. 11, 1939	-	-	-	-	-	252	900	1.2	-	-	-	-	-	-	-	-
C-31	R. A. Kremel	335	G	do	-	-	-	-	330	282	1,090	-	19	-	-	b578	-	-	-	-
D-1	McAllen Ranch	684	G	Aug. 10, 1939	-	-	-	-	292	151	392	-	-	-	-	b34	-	-	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (microhmhos at 25°C)	pH
D-7	McAllen Ranch	246	G	Aug. 10, 1939	-	-	-	-	283	121	382	-	20	-	-	b231	-	-	-	-
D-9	Manuel Veia	713	G	Aug. 31, 1939	-	-	-	-	330	208	248	2.5	-	-	-	b20	-	-	-	-
D-9	do	713	G	Jan. 14, 1949	12	5.8	1.9	385	348	221	245	-	0.0	3.2	1,040	22	97	1,780	-	
D-10	Enemencio Bazan	100	G	Aug. 31, 1939	-	-	-	-	358	88	248	-	68	-	-	b129	-	-	-	-
D-11	B. Bazan Estate	82	G	1939	-	-	16	242	380	63	190	-	14	-	739	131	-	9.2	-	-
D-12	McAllen Ranch	150	G	Jan. 14, 1949	58	30	20	171	354	44	132	-	7.8	1.5	639	157	70	6.0	1,090	-
D-12	do	150	G	Aug. 15, 1957	-	-	-	-	343	-	132	-	-	-	-	140	-	-	1,020	8.1
D-13	do	450	G	Jan. 14, 1949	12	70	48	891	294	451	1,130	-	5.5	4.0	2,750	372	84	20	4,770	-
D-13	do	450	G	Aug. 19, 1957	-	-	-	-	314	-	1,100	-	-	-	-	377	-	-	4,560	7.9
D-14	Wood Christian	947	G	Sept. 1, 1939	-	-	-	-	332	200	245	2.5	-	-	-	b10	-	-	-	-
D-14	do	947	G	Jan. 14, 1949	14	5.4	1.5	382	332	242	230	-	1.0	2.2	1,040	20	98	1,720	-	
D-15	McAllen Ranch	756	G	Sept. 1, 1939	-	-	-	-	341	168	270	2.4	-	-	-	b14	-	-	-	-
D-16	do	800	G	do	-	-	-	-	318	238	234	2.5	-	-	-	b18	-	-	-	-
D-18	do	300	G	Aug. 19, 1957	-	-	-	-	298	-	1,120	-	-	-	-	440	-	-	4,490	8.0
D-19	do	440	G	do	-	-	-	-	362	-	248	-	-	-	-	14	-	-	1,810	8.5
D-20	Henry Guerra	672	G	Sept. 7, 1939	-	98	74	681	392	421	890	1.0	15	-	2,370	548	-	13	-	-
D-23	W. E. Goldston	2,050	G	Jan. 22, 1948	-	4.4	1.9	514	397	353	315	-	-	-	1,380	19	98	50	2,320	-
D-23	do	2,050	G	Apr. 18, 1948	48	7.0	2.2	513	412	354	308	-	1.2	-	1,440	26	98	45	2,300	-
D-23	do	2,050	G	Dec. 9, 1948	-	-	-	-	-	-	298	-	-	4.9	-	-	-	-	2,280	-
D-23	do	2,050	G	May 29, 1950	-	-	-	-	-	-	332	-	-	5.5	-	-	-	-	2,480	-
D-24	Jesse Gaston	75	LF	Jan. 22, 1948	-	42	37	325	310	128	410	-	.0	-	1,090	257	73	9.1	1,990	-
D-24	do	75	LF	Mar. 20, 1948	-	-	-	-	-	-	240	-	-	1.3	-	-	-	-	2,020	-
D-25	Neal Tennis	85	LF	Jan. 22, 1948	-	53	35	337	400	160	362	-	5.0	-	1,150	276	73	8.8	2,060	-
D-26	W. P. Hauser	87	LF	Mar. 20, 1948	75	45	32	385	400	147	420	-	10	2.2	1,310	244	77	11	2,200	-
D-27	do	78	LF	do	78	65	38	221	288	132	292	-	16	1.3	985	318	60	5.4	1,590	-
D-28	-- Boler	90	LF	Apr. 8, 1948	87	33	28	266	324	92	280	-	24	1.8	999	198	75	8.2	1,680	-
D-29	A. J. Ehlers	80	LF	Apr. 7, 1948	90	50	33	210	260	88	282	-	18	1.2	927	261	64	5.7	1,560	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (microhmhos at 25°C)	pH
D-30	W. R. Allen	89	LF	Apr. 7, 1948	82	43	26	187	256	74	215	-	38	1.6	797	214	65	5.5	1,340	-
D-31	A. W. Beurline	1,503	G	Mar. 23, 1948	23	15	2.4	493	394	412	260	-	.8	7.4	1,410	48	96	30	2,150	-
D-31	do	1,503	G	May 17, 1950	-	-	-	-	292	-	258	-	-	5.6	-	-	-	-	2,140	8.0
D-31	do	1,250	G	do	-	-	-	-	315	-	262	-	-	5.5	-	-	-	-	2,100	7.9
D-31	do	1,350	G	do	-	-	-	-	318	-	262	-	-	4.8	-	-	-	-	2,060	8.0
D-31	do	1,365	G	do	-	-	-	-	322	-	265	-	-	5.7	-	-	-	-	2,080	8.1
D-31	do	1,503	G	June 1, 1950	-	-	-	-	-	-	258	-	-	4.7	-	-	-	-	2,130	-
D-32	A. J. Ehlers	86	LF	Apr. 19, 1948	68	86	44	309	323	198	415	-	15	1.6	1,300	396	63	6.8	2,080	-
D-32	do	86	LF	Jan. 11, 1950	74	65	36	260	325	123	335	-	9.2	1.3	1,060	310	65	-	1,830	7.4
D-37	H. H. Snyder	85	LF	Apr. 9, 1948	90	24	24	196	236	59	220	-	25	1.0	781	158	73	6.7	1,350	-
D-39	Southern Floral Co.	76	LF	Jan. 21, 1945	-	66	49	372	364	155	495	-	21	-	1,340	366	-	8.5	-	-
D-39	do	76	LF	Apr. 19, 1948	95	38	37	267	253	113	340	-	29	1.4	1,040	247	70	7.4	1,750	-
D-39	do	76	LF	Jan. 11, 1950	76	68	40	275	334	129	358	-	24	1.5	1,140	334	64	6.5	1,940	7.6
D-40	A. W. Beurline	78	LF	June 21, 1945	-	74	41	211	201	145	330	-	38	-	938	353	4.9	-	1,880	-
D-40	do	78	LF	Dec. 10, 1948	-	-	-	-	-	-	360	-	-	.9	-	-	-	-	1,880	-
D-41	G. D. Young	900	G	Apr. 4, 1948	26	8.4	4.5	502	305	194	480	-	.5	-	1,370	40	97	-	2,380	-
D-42	do	95	LF	Mar. 24, 1948	84	40	38	243	241	122	315	-	20	2.3	983	256	67	6.6	1,600	-
D-43	Southern Floral Co.	86	LF	Mar. 22, 1948	90	57	41	285	309	125	368	-	35	1.9	1,160	311	67	7.0	1,960	-
D-44	G. D. Young	900	G	Apr. 4, 1948	23	7.4	3.7	503	325	223	445	-	1.0	3.5	1,370	34	97	37	2,330	-
D-45	do	1,400	G	do	24	6.2	2.2	485	321	199	432	-	1.5	-	1,310	24	98	42	2,280	-
D-47	do	900	G	do	30	4.0	1.7	492	341	193	430	-	1.0	3.5	1,320	18	98	48	2,330	-
D-48	do	900	G	do	27	12	4.1	495	284	329	388	-	.5	3.0	1,400	47	96	32	2,350	-
D-50	F. W. Boreman	85	LF	Apr. 14, 1948	73	78	46	214	310	120	322	-	19	1.6	1,030	364	55	4.7	1,840	-
D-51	R. J. West	90	LF	Apr. 13, 1948	96	24	34	272	231	99	345	-	15	-	1,030	200	75	8.4	1,840	-
D-53	O. J. Blaue	80	LF	June 21, 1945	-	67	36	241	248	104	360	-	23	-	953	315	-	5.9	-	-
D-55	Ivan A. White	85	LF	Apr. 17, 1948	70	92	53	334	397	150	482	-	15	-	1,390	448	62	6.8	2,370	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
D-56	Ivan A. White	85	LF	Apr. 17, 1948	60	186	112	500	394	510	802	-	32	-	2,400	924	54	7.1	3,880	-
D-58	J. A. White	80	LF	Aug. 26, 1933	-	62	32	272	383	114	295	-	12	-	1,031	286	-	7.0	-	-
D-59	L. V. Harpel	80	LF	Apr. 20, 1948	80	14	27	304	482	102	208	-	14	1.6	983	146	82	11	1,750	-
D-61	Ivan A. White	93	LF	Apr. 15, 1948	80	32	33	260	271	84	320	-	24	-	976	216	72	7.7	1,730	-
D-62	Geo. T. Harpel	90	LF	Apr. 14, 1948	73	44	22	236	434	80	188	-	11	1.6	870	200	72	7.2	1,410	-
D-63	L. V. Harpel	90	LF	do	69	49	23	208	320	71	228	-	13	1.6	820	217	68	6.2	1,330	-
D-64	--	90	LF	Apr. 20, 1948	64	58	33	190	328	93	225	-	11	1.2	840	280	60	4.9	1,390	-
D-65	Reynaldo Vela	80	LF	Apr. 15, 1948	88	23	25	198	251	58	222	-	15	1.1	779	160	73	6.8	1,260	-
D-66	Frank Rabb Estate	80	LF	Sept. 2, 1939	-	-	-	-	268	55	345	-	16	-	-	b322	-	-	-	-
D-67	Reynaldo Vela	90	LF	Apr. 20, 1948	82	36	23	181	265	60	206	-	10	0.8	749	184	68	5.8	1,210	-
D-68	do	92	LF	Apr. 19, 1948	86	39	25	161	230	53	212	-	10	.8	714	200	64	4.9	1,240	-
D-69	J. E. Garrett	88	LF	Dec. --, 1948	67	74	36	247	300	105	357	-	12	.6	1,050	332	62	5.9	1,800	-
D-69	do	88	LF	Jan. 11, 1950	68	73	34	244	288	93	362	-	12	1.4	1,030	322	62	5.9	1,790	7.5
D-77	J. G. Turner	1,175	G	Apr. 14, 1948	32	5.8	2.2	433	362	303	248	-	1.8	4.1	1,210	24	98	38	1,960	-
D-77	do	1,175	G	May 31, 1950	-	-	-	-	-	-	230	-	-	2.6	-	-	-	-	1,880	-
D-78	Mrs. M. M. Fairbanks	170	G	Aug. 26, 1933	-	88	33	122	254	44	252	-	14	-	-	355	-	2.8	-	-
E-1	D. Guerra & Sons	701	G	Aug. 31, 1939	-	-	-	-	183	247	580	0.9	-	-	-	b141	-	-	-	-
E-2	W. L. Goldston	2,050	G?	Jan. 22, 1948	-	2.0	3.3	504	542	250	290	-	2.0	-	1,320	18	98	49	2,220	-
E-2	do	2,050	G?	Apr. 18, 1948	40	4.0	1.7	494	518	220	310	-	1.5	6.6	1,330	17	98	55	2,160	-
E-4	D. Guerra & Sons	625	G	Aug. 25, 1933	-	-	-	-	205	146	520	-	.0	-	-	b92	-	-	-	-
E-8	Romaldo Garza	715	G	Aug. 30, 1939	-	108	29	1,016	141	569	1,340	-	-	-	3,130	389	-	22	-	-
E-12	D. Guerra & Sons	575	G	Aug. 25, 1933	20	31	11	500	196	342	490	-	.0	-	1,490	123	-	20	-	-
E-16	Guerra Bros.	1,020	-	May 11, 1945	-	53	14	623	123	928	338	-	1.8	-	2,020	190	-	20	-	-
E-16	do	1,020	-	June 16, 1945	-	52	12	618	128	902	339	-	.8	-	1,990	180	-	20	-	-
E-20	D. Guerra & Sons	811	G	Aug. 10, 1939	-	-	-	-	364	707	430	-	-	-	-	b177	-	-	-	-
E-21	Romaldo Garza	742	G	Aug. 3, 1939	-	-	-	-	196	193	585	1.1	-	-	-	b106	-	-	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium (SAR)	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
E-25	C. M. Corbett	900	G	Sept. 4, 1939	-	78	18	735	212	391	910	.9	-	-	2,240	265	-	19	-	-
E-27	do	762	G	Aug. 31, 1939	-	-	-	-	296	244	620	-	-	-	-	b126	-	-	-	-
E-29	H. L. McBride	1,710	G	June 15, 1945	-	37	8.7	460	258	518	268	-	0.8	-	1,420	128	-	16	-	-
E-31	Geo. H. Coates	782	G	Sept. 1, 1939	-	-	-	-	170	430	750	-	-	-	-	b156	-	-	-	-
E-31	do	782	G	Dec. 9, 1948	-	-	-	-	-	-	730	-	-	2.4	-	-	-	-	3,430	-
E-33	A. V. Garza	750	G	Sept. 6, 1939	-	40	15	615	341	274	660	0.9	-	-	1,770	162	-	21	-	-
E-34	P. C. Zamora	499	GL	Aug. 10, 1939	-	-	-	-	281	341	845	-	-	-	-	b189	-	-	-	-
E-34	do	499	GL	Dec. 10, 1948	-	-	-	-	-	-	770	-	-	1.7	-	-	-	-	3,570	-
E-35	Juanlina Garza	705	G	Sept. 1, 1939	-	38	13	571	188	354	615	-	-	-	1,680	148	-	20	-	-
E-36	King Ranch	625	G	Aug. 10, 1939	-	-	-	-	287	320	775	-	-	-	-	b138	-	-	-	-
E-36	do	625	G	Dec. 10, 1948	-	-	-	-	-	-	770	-	-	1.7	-	-	-	-	3,460	-
E-37	A. B. Garza	650	G	Sept. 7, 1939	-	36	17	686	376	246	765	1.0	7.5	1.7	1,940	160	-	24	-	-
E-39	M. Chapa	431	GL	Aug. 7, 1939	-	-	-	-	306	391	1,120	-	5.0	-	-	b273	-	-	-	-
E-42	Guerra Bros.	1,385	G	Dec. --, 1943	20	17	8.3	506	276	574	250	-	.2	6.9	1,520	76	93	25	2,410	-
E-42	do	1,385	G	Jan. 16, 1949	-	-	-	-	-	-	248	-	-	6.5	-	-	-	-	2,430	-
E-43	Linn School District	1,325	G	Jan. 22, 1948	-	20	7.0	554	189	777	230	-	1.2	-	1,690	79	94	27	2,690	-
E-43	do	1,325	G	Mar. 20, 1948	-	-	-	-	-	-	415	-	-	8.7	-	-	-	-	2,710	-
E-43	do	1,325	G	May 29, 1950	-	-	-	-	-	-	202	-	-	5.5	-	-	-	-	3,820	-
E-43	do	1,325	G	Aug. 14, 1957	66	212	161	633	272	264	1,450	-	27	2.4	2,950	1,190	54	8.0	5,150	6.0
E-47	J. N. Guerra	488	GL	Aug. 10, 1939	-	-	-	-	324	295	850	-	7.5	-	-	b180	-	-	-	-
E-48	Walter Doughty	67	LF	Sept. 7, 1939	-	-	-	-	394	200	680	-	14	-	-	b352	-	-	-	-
E-50	A. Guerra	173	LF	Aug. 26, 1933	-	-	-	-	426	270	620	-	-	-	-	b502	-	-	-	-
E-51	do	115	LF	Sept. 7, 1939	-	-	-	-	285	193	580	-	16	-	-	b375	-	-	-	-
E-52	do	90	LF	do	-	-	-	-	-	195	590	-	54	-	-	-	-	-	-	-
E-55	T. H. McClelland	80	LF	Jan. 22, 1948	-	41	48	671	392	265	810	-	23	-	2,050	300	63	17	3,520	-
E-55	do	80	LF	Mar. 20, 1948	-	-	-	-	-	-	920	-	-	3.6	-	-	-	-	3,900	-

See footnotes at end of table.

Table 7.--Analyse of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
E-57	W. J. Wylie	65	LF	Sept. 1, 1939	-	43	28	305	422	129	280	2.2	7.0	-	-	222	-	8.9	-	-
E-58	W. P. Hauser	87	LF	Apr. 19, 1948	95	36	23	362	426	128	330	-	31	2.3	1,220	184	81	12	1,940	-
E-59	A. K. Pollis	85	LF	Apr. 4, 1948	90	53	33	191	248	80	275	-	9.5	1.2	920	268	61	5.0	1,510	-
E-61	Southern Floral Co.	88	LF	Sept. 1, 1939	-	56	32	264	381	109	292	-	9.8	-	951	271	-	7.0	-	-
E-61	do	86	LF	Apr. 19, 1948	74	83	41	250	280	99	402	-	24	1.3	1,110	376	59	5.6	1,880	-
E-62	do	87	LF	do	80	77	38	194	290	81	292	-	44	1.2	980	348	55	4.5	1,580	-
E-66	A. K. Pollis	80	LF	Apr. 4, 1948	94	58	35	248	250	101	342	-	42	1.6	1,040	288	65	6.4	1,780	-
E-67	do	78	LF	June 21, 1945	-	61	44	259	192	102	438	-	19	-	1,020	333	-	6.2	-	-
E-67	do	78	LF	Jan. 23, 1948	-	54	41	244	222	104	375	-	18	-	945	304	63	6.1	1,790	-
E-67	do	78	LF	Dec. 10, 1948	-	-	-	-	-	-	360	-	-	1.4	-	-	-	-	1,840	-
E-68	do	80	LF	Jan. 23, 1948	-	57	42	222	238	91	358	-	4.6	-	955	315	61	5.4	1,740	-
E-68	do	80	LF	Dec. 9, 1948	-	-	-	-	-	-	402	-	-	.8	-	-	-	-	1,970	-
E-70	W. M. Doughty	910	G	May 11, 1945	-	12	5.7	474	252	206	468	-	1.8	-	1,290	54	-	28	-	-
E-70	do	910	G	Apr. 20, 1948	30	12	5.4	502	253	223	498	-	.4	3.4	1,380	52	95	31	2,370	-
E-70	do	910	G	June 1, 1950	-	-	-	-	-	-	510	-	-	3.4	-	-	-	-	2,430	-
E-71	Tom Brown	1,224	G	Apr. 6, 1948	20	8.2	2.8	395	276	207	318	-	0.8	2.8	1,090	32	96	31	1,850	-
E-71	do	1,224	G	May 31, 1950	-	-	-	-	-	-	398	-	-	3.8	-	-	-	-	2,090	-
E-73	Rio Grande Floral Co.	78	LF	Jan. 16, 1945	-	58	33	199	204	94	299	-	31	-	814	280	-	5.2	-	-
E-73	do	78	LF	Apr. 20, 1948	74	62	32	225	314	85	285	-	35	2.1	955	286	63	5.8	1,550	-
E-75	S. L. Turner	80	LF	June 10, 1947	-	60	37	352	408	167	388	-	14	-	1,220	302	-	8.8	2,130	-
E-75	do	80	LF	Dec. 10, 1948	-	-	-	-	-	-	283	-	-	.9	-	-	-	-	1,580	-
E-76	Rio Grande Floral Co.	76	LF	Jan. 23, 1948	-	74	50	220	414	90	298	-	20	-	956	390	55	4.8	1,730	-
E-76	do	76	LF	Mar. 21, 1948	-	-	-	-	-	-	385	-	-	1.6	-	-	-	-	1,760	-
E-77	Juan Medina	80	LF	Apr. 14, 1948	77	73	39	280	320	105	400	-	18	1.4	1,150	342	64	6.6	1,930	-
E-78	D. C. Pollock	90	LF	Apr. 20, 1948	89	42	42	340	193	121	505	-	24	1.5	1,260	278	73	8.8	2,280	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
E-80	J. P. Cruise	100	LF	Apr. 7, 1948	79	68	51	319	250	151	492	-	21	1.7	1,310	379	65	7.1	2,310	-
E-84	do	890	G	Apr. 13, 1945	-	-	-	-	314	260	405	-	1.2	-	-	-	-	-	-	-
E-84	do	890	G	May 11, 1945	-	9.8	4.4	466	305	226	402	-	1.5	-	1,260	42	-	32	-	-
E-84	do	890	G	Mar. 21, 1948	23	10	3.2	464	300	230	398	-	.8	4.0	1,280	38	96	32	2,210	-
E-84	do	890	G	May 31, 1950	-	-	-	-	-	-	395	-	-	3.2	-	-	-	-	2,200	-
E-87	Texas Produce Co.	1,046	G	Jan. 24, 1948	-	5.5	3.5	453	292	219	385	-	1.5	-	1,210	28	97	36	2,110	-
E-87	do	1,046	G	Mar. 20, 1948	-	-	-	-	-	-	300	-	-	3.9	-	-	-	-	2,140	-
E-87	do	1,046	G	May 31, 1950	-	-	-	-	-	-	378	-	-	3.2	-	-	-	-	2,120	-
E-88	T. W. Lee	935	G	Mar. 20, 1948	28	7.8	2.4	437	290	217	365	-	1.0	4.1	1,210	30	97	35	2,030	-
E-88	do	935	G	May 31, 1950	-	-	-	-	-	-	355	-	-	2.1	-	-	-	-	2,010	-
E-92	Mrs. Agnes Puckett	37	LF	Sept. 5, 1939	-	-	-	-	-	127	540	-	8.2	-	-	-	-	-	-	-
E-93	G. B. Miller	90	LF	Apr. 5, 1948	66	46	39	474	296	174	618	-	15	2.3	1,580	276	79	11	2,870	-
E-94	Frank Gross	88	LF	May 12, 1945	-	71	50	352	330	127	528	-	1.9	-	1,290	382	-	7.9	-	-
E-94	do	88	LF	Jan. 24, 1948	-	57	43	352	330	131	468	-	22	-	1,240	320	71	8.5	2,270	-
E-96	Fred Mischler	90	LF	Jan. 12, 1950	77	80	47	278	338	126	412	-	9.4	1.8	1,200	393	61	6.1	2,090	7.4
E-97	W. H. Fowler	90	LF	June 8, 1947	-	108	55	528	636	252	605	-	9.6	-	1,870	496	-	10	3,200	-
E-97	do	90	LF	Jan. 24, 1948	-	69	61	572	436	249	735	-	18	-	1,920	423	75	12	3,480	-
E-97	do	90	LF	Apr. 2, 1948	84	58	55	562	431	242	690	-	18	3.2	1,920	370	77	13	3,240	-
E-100	Juan Gonzalez	75	LF	Sept. 5, 1939	-	-	-	-	-	260	900	-	19	-	-	-	-	-	-	-
E-102	C. E. Villarreal	91	LF	Jan. 24, 1948	-	46	41	402	315	134	530	-	16	-	1,320	284	76	10	2,410	-
E-103	Taylor & Latham	90	LF	do	-	86	52	264	328	143	415	-	.2	-	1,120	428	57	5.5	2,080	-
E-103	do	90	LF	Mar. 26, 1948	-	-	-	-	-	-	460	-	-	1.9	-	-	-	-	2,230	-
E-104	Carlos Hinojosa	52	LF	Sept. 5, 1939	-	-	-	-	-	117	360	-	26	-	-	-	-	-	2,230	-
E-105	M. Cantu	38	LF	do	-	55	28	424	695	79	345	1.7	40	-	1,320	252	-	11	-	-
F-4	Dallas Stock & Land Bank	300	G	Sept. 2, 1939	-	102	54	685	377	254	970	1.0	26	-	2,280	476	-	14	-	-

See footnotes at end of table.



Table 7.--Analysis of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sup>2</sup>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percentage of sodium (SAR)	Specific conductance (microhms at 25°C)
F-5	E. Rethmeyer	375	Oct. 2, 1939	-	93	51	570	375	169	845	1.2	3.8	-	1,920	442	-	-
F-6	John Walker	280	Sept., 1939	-	-	-	-	-	409	1,030	-	-	-	-	-	-	-
F-7	John Judd	290	Aug. 11, 1939	-	-	-	-	382	200	905	1.6	5.0	-	-	-	-	-
F-8	M. Nussbaum	285	do	-	-	-	-	386	183	850	-	20	-	-	-	-	-
F-9	Luclan Pierezyk	300	Aug. 14, 1957	-	-	-	-	28	-	1,120	-	-	-	-	-	-	3,760
F-10	McCook Gin Co.	344	Aug. 11, 1939	-	-	-	-	338	183	885	1.9	18	-	-	-	-	-
F-10	do	344	Jan. 14, 1949	12	56	64	1,210	678	108	1,710	-	14	6.1	3,520	403	87	6,270
F-12	Nick Koltzer	380	do	19	95	53	750	311	316	1,070	-	17	4.7	2,480	455	78	4,340
F-14	Mrs. Cora Davis	580	Aug. 11, 1939	-	-	-	-	344	258	880	-	-	-	-	-	-	-
F-14	do	580	Sept. 2, 1939	-	104	49	609	311	255	890	.9	8.8	-	2,070	461	-	-
F-15	Mrs. Anna Dube	371	Aug. 11, 1939	-	-	-	-	264	540	1,170	1.6	21	-	-	-	12	-
F-16	Mildred Davis	351	do	-	-	-	-	320	526	1,510	1.9	-	-	-	-	-	-
F-17	C. Pollock	350	do	-	-	-	-	-	261	1,080	-	19	-	-	-	-	-
F-18	P. Christianson	265	Sept., 1939	-	-	-	-	350	458	1,050	1.7	40	-	-	-	-	-
F-20	F. J. Dusek	370	Aug. 11, 1939	-	-	-	-	-	221	740	1.0	-	-	-	-	-	-
F-22	W. D. Jeffries	280	Aug. 26, 1933	-	134	40	281	402	109	455	-	32	-	1,230	499	55	-
F-28	E. Salinas	205	Aug. 25, 1933	-	91	27	323	332	90	455	-	40	-	1,190	338	67	-
F-30	Showers Estate	396	do	-	108	53	723	297	384	1,000	-	4.7	-	2,420	487	-	-
F-31	J. E. Winston	777	Aug. 3, 1939	-	-	-	-	233	278	570	-	-	-	-	-	-	-
*F-31	do	777	Jan. 12, 1950	15	16	6.8	573	232	351	538	.5	5.2	1,620	68	95	30	2,790
F-34	Showers Estate	197	Aug. 25, 1933	-	-	-	-	537	75	715	-	4.8	-	-	-	-	-
G-1	Charles C. Roper	844	Aug. 19, 1957	-	-	-	-	321	-	325	-	-	-	-	-	-	2,040
G-9	Hammond Bros.	564	Aug. 30, 1939	-	-	-	-	242	280	1,120	-	-	-	-	-	-	8.1
G-11	E. Vela	72	Sept. 5, 1939	-	-	-	-	-	119	450	-	-	-	-	-	-	-
G-12	G. D. Guerra	81	Jan. 11, 1950	67	94	47	310	349	112	492	-	7.0	1.8	1,300	428	61	2,290
G-16	W. M. Brewster	180	Sept. 2, 1939	-	44	14	140	285	24	130	1.0	60	-	558	188	-	4.4

See footnotes at end of table.

Table 7.--Analyse of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (microhos at 25°C)	pH	
G-17	B. W. Bulatkin	1,325	G	July 3, 1951	18	40	18	737	236	635	652	-	4.0	.4	2,220	174	90	34	3,730	8.6	
G-19	Shary Estate	136	LF	Sept. 5, 1939	-	-	-	-	358	417	1,220	2.0	12	-	-	6472	-	-	-	-	
G-20	do	372	GL	do	-	-	-	-	297	500	1,150	1.5	15	-	-	6458	-	-	-	-	
G-21	Hammond Bros.	900	G	Aug. 3, 1939	-	-	-	-	321	352	265	-	-	-	-	626	-	-	-	-	
G-23	do	750	G	Aug. 25, 1933	-	55	23	521	310	417	480	-	.0	-	1,650	232	-	-	-	-	
G-24	do	1,447	G	Jan. 12, 1950	16	11	4.2	581	320	604	295	-	.8	9.9	1,680	45	97	38	2,640	8.2	
G-26	Baptist Seminary	425	OL	Sept. 4, 1939	-	-	-	-	372	534	1,310	-	8.0	-	3,170	6510	-	-	-	-	
G-30	C. D. Lance	515	G	Jan. 12, 1950	19	72	36	699	262	375	880	-	.2	3.3	2,210	328	82	17	3,710	7.4	
H-5	Arturo Garza	96	LF	Jan. 24, 1948	-	34	35	378	403	153	388	-	12	-	1,200	229	78	11	2,120	-	
H-6	do	96	LF	Dec. 9, 1948	-	-	-	-	-	-	380	-	-	1.6	-	-	-	-	-	2,160	-
H-7	Crisanto Vela	56	LF	Sept. 5, 1939	-	-	-	-	438	221	600	-	11	-	-	6288	-	-	-	-	
H-9	F. B. Vela	63	LF	do	-	-	-	-	-	210	450	-	12	-	-	-	-	-	-	-	
H-12	J. A. Deaton	57	LF	do	-	-	-	-	368	95	360	-	8.2	-	-	6288	-	-	-	-	
H-13	Frank Rabb Estate	60	LF	do	-	-	-	-	-	216	675	-	7.5	-	-	-	-	-	-	-	
H-14	G. D. Guerra	92	LF	Mar. 26, 1948	81	41	35	449	424	124	520	-	14	2.3	1,480	246	80	12	2,580	-	
H-14	do	92	LF	Apr. 4, 1948	65	40	41	489	394	189	570	-	8.5	1.7	1,590	268	80	13	2,770	-	
H-15	Pape & Allison	1,464	G	Jan. 24, 1948	-	43	27	806	248	409	950	-	1.5	-	2,360	218	89	24	4,040	-	
H-15	do	1,464	G	Apr. 12, 1948	20	54	26	884	236	414	1,090	-	2.0	4.1	2,610	242	89	25	5,250	-	
H-15	do	1,464	G	May 31, 1950	-	-	-	-	-	-	880	-	-	2.8	-	-	-	-	-	3,900	-
H-16	do	1,105	G	Jan. 24, 1948	-	34	19	804	254	415	900	-	1.5	-	2,300	163	91	27	3,870	-	
H-16	do	1,105	G	Mar. 20, 1948	-	-	-	-	-	-	1,400	-	-	4.2	-	-	-	-	-	5,330	-
H-16	do	1,105	G	Apr. 18, 1948	21	48	24	750	247	441	842	-	.2	-	2,250	218	88	22	3,630	-	
H-16	do	1,105	G	May 31, 1950	-	-	-	-	-	-	900	-	-	3.1	-	-	-	-	-	3,900	-
H-17	A. J. Norwood	255	LF	Sept. 5, 1939	-	-	-	-	256	476	1,190	-	14	-	-	6450	-	-	-	-	
H-18	U. S. Army	650	G	Apr. 6, 1948	28	106	51	1,110	204	570	1,500	-	8.0	3.7	3,480	474	84	22	5,810	-	
H-18	do	650	G	June 1, 1950	-	-	-	-	-	-	1,360	-	-	2.9	-	-	-	-	-	5,070	-

See footnotes at end of table.

Table 7.--Analyses of water from wells and springs in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a/</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dis-solved solids	Total hardness as CaCO <sub>3</sub>	Per-cent so-dium	Sodium adsorp-tion ratio (SAR)	Specific conduct-ance (micromhos at 25°C)	pH
H-19	J. G. Turner	1,300	G	Apr. 5, 1948	25	59	32	899	214	458	1,120	-	.5	3.8	2,700	273	88	23	-	-
H-19	do	1,300	G	June 1, 1950	-	-	-	-	-	-	1,140	-	-	4.6	-	-	-	-	-	-
H-21	-- Lee	1,000	G	Dec. --, 1948	20	27	13	595	254	542	455	-	.2	5.2	1,780	101	91	24	2,910	-
H-21	do	1,000	G	--	-	-	-	-	-	-	465	-	-	4.9	-	-	-	-	-	-
H-22	-- Doughty	950	G	Sept. 5, 1939	-	-	-	-	142	437	1,140	-	-	-	2,550	6210	-	-	-	-
H-23	Delta Orchards Co.	1,100	G	Sept. 4, 1939	-	163	50	1,010	101	1,100	1,120	-	-	-	3,480	612	-	18	-	-
H-24	Community	940	G	Sept. 7, 1939	-	-	-	-	84	2,430	980	-	-	-	-	61,080	-	-	-	-
H-25	Steuver Estate	1,000	G	do	-	-	-	-	-	474	1,510	0.6	5.0	-	-	-	-	-	-	-
H-27	Edinburg School District	870	G	Sept. 4, 1939	-	134	39	1,010	117	576	1,410	.6	-	-	3,280	495	-	20	-	-
H-28	Delta Orchards Co.	1,100	G	do	-	112	43	1,080	168	530	1,490	.9	-	-	3,330	456	-	22	-	-
H-32	Juan de la Vina	130	GL	Sept. 7, 1939	-	106	82	1,180	488	537	1,560	2.1	-	-	3,710	601	-	21	-	-
H-36	J. G. Turner	1,250	G	Apr. 5, 1948	19	54	24	1,000	186	407	1,300	-	1.0	4.7	2,890	234	90	28	5,020	-
H-37	Alamo Cotton Oil Co.	258	GL	Sept. 5, 1939	-	-	-	-	417	886	1,280	2.1	18	-	-	6525	-	-	-	-
H-39	L. A. Gannaway	1,430	G	June 10, 1947	-	72	31	1,010	196	452	1,320	-	1.5	-	2,980	307	-	25	-	-
H-39	do	1,430	G	Mar. 24, 1948	68	74	36	993	177	492	1,300	-	1.5	5.8	3,050	332	87	24	5,130	-
H-40	Southern Pacific R. R. Co.	1,040	G	Sept. 14, 1945	1.0	5.7	1.7	827	230	152	1,040	1.0	1.8	-	2,140	21	-	80	3,930	9.3
H-46	Delta Orchards Co.	465	RG	Sept. 7, 1939	-	-	-	-	412	712	1,570	2.7	-	-	-	6600	-	-	-	-
H-48	H. N. Klunkert	280	RG	May 15, 1958	28	78	38	714	365	508	780	-	3.0	4.7	2,330	351	82	17	3,820	7.4
J-1	Delta Orchards Co.	930	G	Sept. 4, 1939	-	127	38	1,120	122	612	1,540	.7	-	-	3,500	473	-	22	-	-
J-13	J. Reynolds	240	RG	Sept. 7, 1939	-	34	30	1,100	626	580	1,040	4.7	-	-	3,100	208	-	33	-	-
J-18	Fred Henson	61	RG	do	-	-	-	-	319	607	1,710	-	-	-	-	6291	-	-	-	-
J-19	Barton Hughes	98	RG	Aug. 23, 1933	-	-	-	-	597	631	920	-	.0	-	-	6204	-	-	-	-
J-28	Rio Farms, Inc.	305	RG	May 16, 1958	34	57	47	1,100	465	646	1,190	-	3.0	7.4	3,310	336	88	26	5,330	7.5

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a/3</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
J-32	Delta Orchards Co.	160	RG	Sept. 7, 1939	-	-	-	-	510	552	1,530	-	-	-	3,640	b172	-	-	-	-
J-33	Engleman Gardens Co.	120	RG	Sept. 4, 1939	-	56	41	1,010	476	589	1,060	3.6	-	-	3,000	308	-	25	-	-
K-3	-- Hart	99	G?	Sept. 5, 1939	-	-	-	-	356	83	127	-	8.8	-	-	b123	-	-	-	-
K-4	W. R. Jackson	170	G?	do	-	-	-	-	234	210	640	-	16	-	-	b412	-	-	-	-
K-9	Mary Fleoden	106	RG	do	-	-	-	-	-	277	545	-	20	-	-	-	-	-	-	-
K-12	Showers Estate	210	RG	Aug. 25, 1933	13	84	35	398 12	370	183	520	-	.0	-	1,430	354	-	9.4	-	-
K-14	do	161	RG	do	-	84	35	-	170	100	560	-	1.0	-	-	b291	-	-	-	-
K-15	Bentsen Bros.	278	RG	Sept. 5, 1939	-	128	53	515	304	340	735	-	19	-	-	537	-	9.6	-	-
K-18	La Homa Ranch	485	RG	Apr. 14, 1957	18	108	58	612 23	280	306	930	-	.5	2.8	2,200	508	71	12	3,770	7.5
K-19	American Investment Co.	803	G	June 15, 1945	-	94	50	877	246	447	1,190	-	.8	-	2,780	440	-	18	-	-
K-22	W. W. Woody, Jr.	350	RG	Aug. 7, 1957	20	97	43	448 16	315	223	652	-	17	1.8	1,670	419	69	9.5	2,920	7.6
K-23	Ray Barnick	345	RG	Aug. --, 1957	23	74	33	474 20	336	269	580	-	11	2.5	1,650	320	75	12	2,790	7.8
K-24	F. P. Eckroat	276	RG	Aug. 12, 1957	30	72	26	337 -	332	81	450	-	27	1.5	1,190	286	72	8.7	2,120	7.9
K-28	Everett Bell	260	RG	Aug. 6, 1957	24	37	20	397 -	368	153	410	-	2.5	1.9	1,230	174	83	13	2,130	7.6
K-30	Oscar Daskam	108	RG	Sept. 5, 1939	-	-	-	-	-	323	1,120	0.6	32	-	-	-	-	-	-	-
K-32	E. W. Sullivan	80	RG	do	-	-	-	-	-	549	1,120	-	40	-	-	-	-	-	-	-
K-34	Lopez Guerra	90	RG	do	-	-	-	-	-	27	60	-	9.6	-	-	-	-	-	-	-
K-35	P. S. Rivas	80	RG	do	-	-	-	-	-	153	440	-	19	-	-	-	-	-	-	-
K-39	R. R. Chamberlain	100	RG	do	-	-	-	-	235	759	1,470	-	28	-	-	b532	-	-	-	-
K-52	Bennworth Bros.	75	RG	Aug. 1, 1957	44	311	80	200 -	413	330	600	-	.0	.4	1,770	1,100	28	2.6	2,900	7.7
K-54	Tabasco School District	210	RG	Aug. 6, 1957	38	202	78	1,240 -	335	834	1,650	-	69	5.1	4,280	824	77	19	6,760	7.4
K-55	do	133	RG	do	24	66	25	386 -	318	156	468	-	40	1.6	1,320	268	76	10	2,290	7.6
K-56	Soloman Chapa	87	RG	Sept. 5, 1939	-	-	-	-	-	187	670	1.5	18	-	-	-	-	-	-	-
K-57	David Chapa	90	RG	do	-	-	-	-	-	284	1,410	1.0	74	-	-	-	-	-	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (microhms at 25°C)	pH
K-58	M. C. Hanson	243	RG	Aug. 5, 1939	-	-	-	-	240	1,360	860	-	-	-	-	b420	-	-	-	-
K-59	Mrs. D. Lowry	138	RG	Aug. 24, 1933	-	-	-	-	370	161	425	-	5.4	-	-	b210	-	-	-	-
K-60	John P. Waite	50	RG	Aug. 15, 1957	44	166	39	377	270	336	600	-	5.0	1.1	1,700	574	59	6.8	2,730	8.2
K-65	Showers Estate	153	RG	Aug. 24, 1933	-	156	46	410	307	240	675	-	20	-	1,700	579	-	7.4	-	-
K-66	Floyd Everhard	335	RG	Aug. 12, 1957	24	118	45	397	292	101	695	-	41	1.4	1,570	480	64	7.9	2,780	8.2
K-72	City of Mission	412	RG	Sept. 17, 1953	20	66	36	545	322	275	685	-	5.9	2.8	1,810	312	78	14	3,130	7.7
K-74	L. V. Williams	40	RG	Sept. 5, 1939	-	-	-	-	233	604	460	-	1.9	-	-	b585	-	-	-	-
K-76	Mrs. H. K. Wood	44	RG	Sept. 2, 1939	-	-	-	-	278	414	450	-	13	-	-	b660	-	-	-	-
K-77	do	60	RG	do	-	164	56	251	300	398	360	-	18	-	1,400	640	-	4.3	-	-
K-78	R. C. Vollmer	117	RG	Aug. --, 1945	-	290	66	152	465	464	328	-	.0	-	1,530	595	-	2.1	-	-
K-78	do	117	RG	June 7, 1946	-	-	-	-	387	454	300	-	3.5	-	-	-	-	-	-	-
K-79	do	90	RG	June 20, 1945	-	177	51	137	428	280	215	-	4.0	-	1,070	651	-	2.3	-	-
K-81	J. M. Cron	116	RG	Aug. --, 1957	42	198	40	128	548	170	205	-	5.4	.2	1,060	658	30	2.2	1,720	7.6
K-84	Norton Boyd	215	RG	May 30, 1945	-	61	26	481	341	234	548	-	10	-	1,550	259	-	13	-	-
K-91	Marshall Terry	98	RG	Apr. 23, 1953	45	312	99	242	469	338	670	-	5.5	.4	1,940	1,190	31	3.0	3,240	7.0
K-98	Sabardo Chapa	58	RG	May 30, 1945	-	-	-	-	500	500	492	-	5.8	-	-	-	-	-	-	-
K-99	Cornelio Ochoa	80	RG	do	-	82	24	233	463	263	109	-	4.0	-	943	303	-	5.8	-	-
K-102	E. B. Reyna	92	RG	Aug. 27, 1957	37	173	49	223	508	218	340	0.4	3.0	1.0	1,300	633	43	3.8	2,160	7.2
K-104	T. L. Osborne	86	RG	Aug. 22, 1957	40	163	38	105	478	154	168	-	.0	.3	987	563	29	1.9	1,480	7.2
L-1	G. W. B. Garrett	241	RG	Sept. 5, 1939	-	107	47	697	310	345	960	-	6.0	-	2,320	460	-	14	-	-
L-2	W. H. Wycoff	248	RG	do	-	-	-	-	306	430	1,080	-	-	-	-	b585	-	-	-	-
L-3	A. H. Wicks	123	RG	May 22, 1945	-	-	-	-	561	1,100	1,980	-	4.5	-	-	b915	-	-	-	-
L-4	Lee Hawkins	175	RG	do	-	-	-	-	396	1,400	2,140	-	11	-	-	b1,080	-	-	-	-
L-5	Shary Estate	150	RG	do	-	-	-	-	321	340	1,220	-	21	-	-	b765	-	-	-	-
L-6	William Schoening	242	RG	Aug. 8, 1957	60	125	53	755	360	631	880	-	22	3.1	2,710	530	75	14	4,300	7.6
L-6	do	242	RG	Oct. 31, 1957	84	131	53	807	358	630	950	-	21	3.4	2,860	545	76	15	4,540	8.0

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>A</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
L-7	W. B. Beard	50	RG	Aug. 27, 1933	-	-	-	-	376	100	210	-	3.6	-	-	123	-	-	-	-	
L-12	Mrs. M. Ross	118	RG	Sept. 5, 1939	-	-	-	-	432	524	1,090	1.2	-	-	-	6705	-	-	-	-	
L-13	E. Short	128	RG	Aug. 27, 1933	-	-	-	-	449	500	825	-	-	-	-	6645	-	-	-	-	
L-14	C. W. McMillion	297	RG	Apr. 16, 1953	30	154	82	774	251	515	1,160	-	3.0	3.6	2,840	721	70	-	4,920	7.7	
L-15	I. S. Knops	298	RG	Apr. 24, 1953	28	133	73	770	297	412	1,170	-	6.0	3.6	2,740	632	73	13	4,730	7.1	
L-20	Frank Brady	90	RG	May 18, 1945	-	147	73	801	428	1,150	608	-	4.3	-	2,990	667	-	13	-	-	
L-21	A. B. McAfee	194	RG	do	-	224	88	684	115	596	1,200	-	3.2	-	2,850	921	-	9.8	-	-	
L-25	Bentsen Bros.	537	RG	Aug. 3, 1939	-	-	-	-	256	356	840	-	-	-	-	6210	-	-	-	-	
L-29	E. M. Bradbury	38	RG	May 1, 1953	72	103	41	357	371	378	280	-	152	1.5	1,570	426	65	7.5	2,390	7.5	
*L-31	Francis Jensen	121	RG	Aug. 15, 1956	52	157	58	864	28	377	843	980	2.8	9.9	2.2	3,180	630	74	15	4,960	7.0
L-32	P. J. Sweeney	69	RG	Jan. 9, 1953	108	230	74	1,530	418	991	2,000	7.0	-	-	5,150	879	79	22	8,160	7.4	
L-33	Bill Hines	98	RG	May 21, 1945	-	-	-	-	393	900	1,460	-	14	-	-	6810	-	-	-	-	
*L-34	H. T. Klatt	114	RG	do	42	124	45	605	366	430	740	2.0	16	-	2,180	494	-	12	3,540	7.8	
L-35	C. Knadle	102	RG	do	-	-	-	-	423	1,050	2,210	-	11	-	-	6990	-	-	-	-	
L-36	Mrs. Louise Runt	35	RG	Sept. 7, 1939	-	-	-	-	-	863	2,040	.8	15	-	-	-	-	-	-	-	
L-37	Mrs. J. S. Lyons	55	RG	do	-	-	-	-	449	343	575	4.1	43	-	-	6262	-	-	-	-	
L-41	F. D. McLain	153	RG	Aug. 16, 1957	25	253	109	801	301	640	1,350	.8	23	2.6	3,350	1,080	62	11	5,420	7.2	
L-47	Mrs. G. F. Gray	265	RG	Sept. 7, 1939	-	-	-	-	278	449	1,110	.7	6.7	-	-	6735	-	-	-	-	
L-49	A. T. Patterson	354	RG	Aug. 5, 1939	-	-	-	-	168	324	1,060	-	-	-	-	6218	-	-	-	-	
*L-52	Ralph Venzey	87	RG	July 20, 1953	34	370	132	1,270	393	1,030	2,010	.9	-	3.8	5,040	1,470	65	14	7,940	7.1	
L-55	Davis & Gandy	486	RG	Oct. 24, 1957	18	45	17	700	262	339	780	1.8	2.0	6.3	2,040	182	89	23	3,530	7.7	
*L-58	Moore Canning Co.	512	RG	May 26, 1953	20	32	13	367	5.2	372	296	238	1.5	.0	3.3	1,160	134	85	14	1,930	7.8
*L-59	City of McAllen	408	RG	Aug. 24, 1953	22	44	19	381	5.6	358	339	262	1.1	.2	2.9	1,250	188	81	12	2,060	7.7
L-60	O. T. Yates	194	RG	Sept. 7, 1939	-	-	-	-	302	274	310	0.6	-	-	-	6322	-	-	-	-	
L-63	W. D. Gray	80	RG	May 18, 1945	-	-	-	-	388	600	1,350	-	5.5	-	-	61,080	-	-	-	-	

\* Well L-31, Iron (Fe) 0.02; well L-34, Iron (Fe) 0.25; well L-52, Iron (Fe) 0.03; well L-58, Iron (Fe) 0.04; well L-59, Iron (Fe) 0.02.

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) g/l	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (microhos at 25°C)	pH
L-65	City of McAllen	270	RG	Sept. 1, 1953	32	137	67	376	8.3	216	565	.5	.2	0.9	1,910	742	52	6.0	3,040	7.4
L-69	do	420	RG	Aug. 24, 1953	23	60	24	370	5.8	345	278	.9	.2	2.5	1,290	248	76	10	2,110	7.5
L-73	L. M. Beumale	285	RG	Aug. 9, 1957	12	70	17	139	-	142	202	-	1.0	.4	659	244	55	3.9	1,160	8.1
L-74	Ada R. Sigrist	80	RG	May 28, 1945	-	-	-	-	-	453	1,130	-	2.5	-	-	1,100	-	-	-	-
L-76	Cleve Parish	290	RG	Apr. 22, 1953	34	223	90	475	-	391	840	-	3.0	1.4	2,290	926	53	6.3	3,830	6.9
L-77	H. R. Giles	76	RG	Sept. 7, 1939	-	-	-	-	-	399	840	.5	-	-	-	8705	-	-	-	-
L-83	City of Pharr	315	RG	May 25, 1953	26	117	47	319	8.8	259	468	.6	.2	1.2	1,420	486	58	6.3	2,430	7.4
L-85	Linnard Bros	298	RG	May 12, 1958	26	122	39	240	-	258	308	-	.2	.8	1,180	465	53	4.8	1,900	7.1
L-87	E. B. Richey	86	RG	May 23, 1953	-	-	-	-	-	376	740	-	11	-	-	6885	-	-	-	-
L-88	J. H. Smith	86	RG	May 21, 1945	-	62	24	471	-	462	325	-	22	-	1,540	253	-	13	-	-
L-90	John Weiseman	250	RG	Aug. 13, 1957	22	74	29	226	4.1	306	195	-	.0	.8	974	304	61	5.6	1,560	7.5
L-94	A. B. Cockrell	65	RG	May 23, 1945	-	-	-	-	-	244	905	-	17	-	-	705	-	-	-	-
L-95	W. H. Jordan	50	RG	do	-	-	-	-	-	307	700	-	5.6	-	-	420	-	-	-	-
L-100	C. E. Schwanz	57	RG	--	-	105	37	308	-	310	369	1.1	6.4	-	1,290	414	-	6.6	-	-
L-102	Willadel Citrus Groves	55	RG	Sept. 2, 1939	-	127	46	244	-	269	318	-	7.1	-	1,220	506	-	4.7	-	-
L-102	do	55	RG	June 1, 1945	-	210	72	512	-	302	760	-	22	-	2,300	820	-	7.8	-	-
L-105	R. J. Gants	68	RG	Sept. 2, 1939	-	-	-	-	-	-	540	0.7	7.0	-	-	-	-	-	-	-
L-105	do	68	RG	May 30, 1945	-	201	74	492	-	310	695	-	24	-	2,240	806	-	7.5	-	-
L-106	H. W. Grover	72	RG	Sept. 2, 1939	-	227	80	345	-	268	620	.6	8.8	-	1,930	896	-	5.0	-	-
L-107	E. Waibel	42	RG	May 24, 1945	-	285	92	1,050	-	401	1,280	-	40	-	4,100	1,090	-	14	-	-
L-109	Mrs. Lucille Bryant	65	RG	May 25, 1945	-	398	135	1,200	-	332	1,810	-	34	-	5,000	1,550	-	13	-	-
L-110	Evans Rees Estate	75	RG	Sept. 2, 1939	-	-	-	-	-	-	590	-	10	-	-	-	-	-	-	-
L-110	do	75	RG	June 15, 1945	-	430	167	848	-	174	1,520	-	45	-	4,330	1,760	-	8.8	-	-
L-113	Boyd & Bois	98	RG	May 29, 1945	-	326	107	401	-	271	900	-	25	-	2,480	1,250	-	4.9	-	-
L-114	Melba C. Carter	92	RG	do	-	258	78	325	-	291	650	-	24	-	1,960	964	-	4.5	-	-

\* Well L-68, Iron (Fe) 0.01; well L-69, Iron (Fe) 0.02. See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
L-116	City of Mission	363	RG	July 21, 1953	21	88	44	756	286	461	950	.9	3.0	3.7	2,480	400	80	16	4,160	7.5
L-117	do	361	RG	do	23	120	56	726	275	571	930	.9	3.0	3.1	2,580	530	74	14	4,220	7.5
L-118	Crystal Water Swimming Pool	68	RG	May 30, 1945	-	224	83	418	314	491	730	-	14	-	2,110	900	-	6.1	-	-
L-121	D. D. Berry	115	RG	Aug. 4, 1945	-	124	31	69	416	110	94	-	.0	-	677	437	-	1.4	-	-
L-121	do	115	RG	May 31, 1946	-	-	-	-	318	170	178	-	2.5	-	-	b398	-	-	-	-
L-122	Ernest Moreno	120	RG	June 20, 1945	-	348	93	115	191	687	445	-	1.0	-	1,780	1,250	-	1.4	-	-
L-125	Russell Ewald	27	RG	June 15, 1945	-	188	40	195	174	420	338	-	1.2	-	1,270	634	-	3.4	-	-
L-127	do	90	RG	do	-	163	86	515	220	760	640	-	6.2	-	2,280	760	-	8.1	-	-
L-128	Lloyd Bentzen, Sr.	205	RG	Aug. 26, 1957	52	159	84	324	152	446	588	-	11	1.0	1,740	742	49	5.2	2,830	8.0
L-130	J. J. Carr	100	RG	May 19, 1945	-	332	111	628	436	1,040	855	-	6.4	-	3,190	1,280	-	7.6	-	-
M-1	C. B. Starr	200	RG	Aug. 27, 1933	-	-	-	-	544	480	1,100	-	-	-	-	b585	-	-	-	-
M-2	C. R. Fitzpatrick	87	RG	do	-	-	-	-	528	420	1,410	-	.0	-	-	b630	-	-	-	-
M-3	W. L. Matthews	65	RG	Sept. 5, 1939	-	-	-	-	558	874	1,240	4.7	-	-	-	b420	-	-	-	-
M-4	Joe Holmes	384	RG	Oct. 22, 1957	24	70	34	677	432	432	700	-	3.5	3.7	2,160	314	82	17	3,600	7.6
M-5	H. V. Smith	360	RG	do	30	50	24	595	393	413	540	-	.0	3.2	1,850	224	85	17	3,060	7.6
M-7	H. C. Aderhold	125	RG	Sept. 5, 1939	-	-	-	-	352	550	1,360	3.0	.0	-	-	b435	-	-	-	-
M-10	E. Bader	136	RG	do	-	50	60	1,100	430	726	1,170	2.6	-	-	3,310	371	-	25	-	-
M-12	J. C. Tipps	147	RG	do	-	-	-	-	418	586	1,000	3.2	1.7	-	-	b368	-	-	-	-
M-15	J. W. Wallace & Sons	380	RG	July 2, 1958	34	118	57	664	368	556	790	-	.5	2.2	2,400	529	73	13	3,890	7.2
M-24	do	360	RG	do	34	115	55	685	362	578	780	-	1.0	2.1	2,430	513	74	13	3,900	7.3
M-26	do	235	RG	do	32	183	76	615	341	608	840	-	1.0	1.7	2,520	766	64	9.7	4,000	7.1
M-31	H. B. Swanson	100	RG	Sept. 6, 1939	-	88	43	648	374	473	710	1.8	-	-	2,150	396	-	14	-	-
M-31	do	100	RG	May 31, 1945	-	-	-	-	347	340	715	-	.8	-	-	b645	-	-	-	-
M-33	E. S. Doughtie	167	RG	Sept. 5, 1939	-	-	-	-	-	657	1,260	1.4	5.0	-	-	-	-	-	-	-

\* Well L-116, Iron (Fe) 0.04; well L-117, Iron (Fe) 0.02. See footnotes at end of table.



Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
M-35	H. F. Potts	253	RG	Aug. --, 1939	-	-	-	-	324	377	400	-	-	-	-	b225	-	-	-	-	
M-35	do	253	RG	Sept. 7, 1939	-	65	29	456	374	379	402	1.3	-	-	1,520	281	-	12	-	-	
M-39	City of Edinburg	349	RG	Aug. 27, 1953	24	97	48	657	378	459	780	1.4	1.0	2.9	2,270	440	76	14	3,780	7.9	
M-41	F. H. Hull	120	RG	do	-	260	-	-	488	160	1,360	-	-	-	-	1,065	-	-	-	-	
M-42	H. A. Moore	377	RG	Jan. 10, 1953	28	106	43	362	332	385	390	-	.5	1.4	1,490	441	64	7.5	2,410	7.5	
M-43	G. E. Alcott	96	RG	Aug. 24, 1933	-	226	78	508	384	585	755	-	.8	-	2,340	885	-	7.7	-	-	
M-47	-- Alarich	120	RG	May 31, 1945	-	-	-	-	381	360	900	-	5.7	-	-	b1,000	-	-	-	-	
M-49	Peter Iverson	79	RG	do	-	-	-	-	362	440	980	-	4.7	-	-	b735	-	-	-	-	
M-50	J. J. Daniels	356	RG	May 31, 1958	24	92	32	336	276	326	382	-	.0	1.7	1,330	361	67	7.7	2,210	7.2	
M-57	Sam Weisenbaker	165	RG	May 16, 1958	35	375	148	844	333	1,030	1,410	-	5.0	1.8	4,010	1,540	54	9.3	6,020	6.7	
M-58	do	172	RG	do	34	430	172	952	333	1,260	1,640	-	7.0	1.9	4,660	1,780	54	9.8	6,940	6.8	
M-59	A. R. Schuhart	136	RG	May 31, 1945	-	-	-	-	356	1,100	1,470	-	4.0	-	-	b1,520	-	-	-	-	
M-65	Sam Weisenbaker	151	RG	May 16, 1958	36	555	223	1,120	311	1,550	2,000	-	-	1.9	5,640	2,300	51	10	8,160	6.6	
M-66	C. C. Billman	472	RG	Nov. 5, 1957	27	76	30	627	257	601	600	-	1.0	3.5	2,090	313	81	15	3,310	8.1	
M-70	City of Alamo	390	RG	Aug. 25, 1953	21	73	31	496	280	463	490	-	.2	2.6	1,720	310	77	12	2,820	7.5	
M-72	Stugard Ranch	385	RG	Oct. 17, 1952	22	67	36	446	254	448	432	-	1.5	2.4	1,580	315	75	11	2,750	8.1	
M-75	City of San Juan	346	RG	Aug. 24, 1953	24	88	38	350	302	332	385	-	.2	1.5	1,380	376	66	7.9	2,300	7.5	
N-1	City of Elsa	270	RG	July 22, 1957	32	118	64	795	323	701	920	2.0	3.0	2.1	2,810	558	75	15	4,530	7.4	
N-2	Adolph Carlson	133	RG	Sept. 5, 1939	-	-	-	-	-	577	920	2.3	-	-	-	-	-	-	-	-	-
N-8	J. F. Byrnes	495	RG	Aug. 18, 1933	-	-	-	-	346	210	1,220	-	-	-	-	b540	-	-	-	-	-
N-26	R. O. Wade	486	RG	May 12, 1958	31	126	60	894	342	688	1,080	-	.0	4.2	3,050	561	78	16	4,890	7.4	
N-28	do	491	RG	do	34	129	64	890	336	684	1,110	-	3.0	4.0	3,080	585	77	16	4,950	7.3	
N-29	Wade Estate	135	RG	Sept. 5, 1939	-	-	-	-	-	666	1,150	1.5	.0	-	-	-	-	-	-	-	-
N-30	City of Edcouch	338	RG	Sept. 18, 1953	29	82	46	796	360	672	820	1.8	.2	4.4	2,640	394	81	17	4,250	7.7	
N-32	Mrs. C. L. Rice	130	RG	Sept. 5, 1939	-	72	49	917	370	665	975	2.0	-	-	2,860	381	-	20	-	-	
N-33	C. A. Pearson	178	RG	Aug. 17, 1933	-	-	-	-	284	500	1,250	-	-	-	-	b682	-	-	-	-	-

\* Iron (Fe) 0.01; 0.03. See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>3</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Micrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
N-34	Mrs. E. J. Hutchinson	12	RG	Sept. 7, 1939	-	-	-	-	584	445	730	-	-	-	-	5146	-	-	-	-
N-44	A. E. Schwartz	38	MS	May 12, 1958	58	93	41	434	345	520	378	-	13	1.6	1,710	400	70	9.4	2,560	7.4
N-45	do	80	MS	Sept. 6, 1939	-	-	-	-	-	528	560	.2	-	-	-	-	-	-	-	-
N-46	do	326	RG	May 12, 1958	33	100	51	727	356	726	690	-	.0	3.2	2,510	459	78	15	3,910	7.4
N-50	J. Ziebarth	90	MS	Sept. 6, 1939	-	186	90	178	394	295	395	.8	40	-	1,380	834	-	2.7	-	-
N-54	F. O. Underhill	40	MS	do	-	122	36	300	384	378	270	.7	16	-	1,310	453	-	6.1	-	-
N-55	Hoblitzelle Ranch	1,545	GT	June 11, 1945	-	526	225	2,000	88	4,700	1,150	-	.8	-	8,650	2,240	-	18	-	-
N-64	City of Weslaco	575	RG	Sept. 18, 1953	20	78	33	610	284	663	530	1.1	.2	4.4	2,090	330	80	15	3,310	8.1
P-4	H. P. Porter	120	RG	June 15, 1945	-	370	138	506	360	1,250	705	-	1.5	-	3,150	1,490	-	5.7	-	-
P-5	Shary Estate	82	RG	do	-	251	72	115	177	514	345	-	7.0	-	1,390	922	-	1.6	-	-
P-7	M. Madsen	120	RG	Sept. 2, 1939	-	150	48	138	384	248	210	-	3.0	-	986	572	-	2.5	-	-
P-7	do	120	RG	June 15, 1945	-	-	-	-	276	220	265	-	3.2	-	-	6345	-	-	-	-
P-8	Shary Estate	139	RG	Apr. 21, 1953	42	237	72	206	329	446	420	-	3.5	0.4	1,590	888	34	3.0	2,580	7.3
P-12	L. M. Berry	130	RG	May 30, 1945	-	195	46	98	366	269	219	-	.0	-	1,010	676	-	1.6	-	-
P-12	do	130	RG	May 22, 1946	-	-	-	-	305	260	236	-	2.0	-	-	6548	-	-	-	-
P-14	J. H. Curtis	130	RG	May 21, 1945	-	346	124	546	422	1,080	770	-	5.3	-	3,080	1,370	-	6.4	-	-
P-16	Fehr & Koetting	104	RG	May 28, 1945	-	252	61	185	368	434	372	-	4.2	-	1,490	880	-	2.7	-	-
P-20	M. A. Holden	105	RG	June 20, 1945	-	320	98	175	336	479	570	-	3.8	-	1,810	1,200	-	2.2	-	-
P-21	W. P. Bates	118	RG	May 6, 1945	-	264	75	274	374	548	485	-	4.0	-	1,830	968	-	3.8	-	-
P-28	J. C. Kelly	78	RG	Sept. 3, 1939	-	-	-	-	-	1,220	1,290	-	13	-	-	-	-	-	-	-
P-30	Knops & McMillon	415	RG	Oct. 22, 1957	22	68	26	411	348	331	368	-	2.0	3.4	1,400	276	76	11	2,320	8.3
P-33	J. S. Ward	90	RG	Sept. 3, 1939	-	-	-	-	-	379	545	0.6	-	-	-	-	-	-	-	-
P-34	Jim Darbey	125	RG	May 26, 1945	-	126	39	95	378	192	120	-	2.2	-	739	475	-	1.9	-	-
P-34	do	125	RG	May 25, 1946	-	-	-	-	332	220	118	-	2.2	-	-	6255	-	-	-	-
P-37	R. J. Sorenson	110	RG	Sept. 4, 1939	-	-	-	-	-	274	325	.2	2.2	-	-	-	-	-	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
P-40	L. G. Nelson	119	RG	Aug. 22, 1957	38	242	53	97	387	218	340	.4	5.9	.4	1,190	822	20	1.5	2,320	7.2
P-42	John Klumb	83	RG	May 26, 1945	-	234	64	110	376	379	271	-	2.2	-	1,250	847	-	1.6	-	-
P-43	J. G. Moutier	110	RG	Sept. 4, 1939	-	-	-	-	356	208	160	0.3	-	-	-	b480	-	-	-	-
P-43	do	110	RG	May 26, 1945	-	-	-	-	408	240	124	-	3.1	-	-	b540	-	-	-	-
P-45	M. M. Dameron	100	RG	do	-	101	25	59	252	123	104	-	2.0	-	538	355	-	1.3	-	-
P-46	W. W. Stevens	90	RG	Sept. 3, 1939	-	-	-	-	230	155	135	.5	-	-	-	b375	-	-	-	-
P-48	E. B. Darby	135	RG	Aug. 24, 1957	32	112	29	92	271	148	161	-	.0	0.2	707	398	33	2.0	1,200	7.5
P-50	Valley View School	105	RG	Sept. 3, 1939	-	-	-	-	246	109	80	.5	-	-	-	b278	-	-	-	-
P-50	do	105	RG	May 26, 1945	-	-	-	-	246	85	84	-	.8	-	-	b255	-	-	-	-
P-51	G. M. Shoup	125	RG	Sept. 3, 1939	-	172	67	282	320	333	500	.6	2.8	-	1,520	705	-	4.6	-	-
P-53	Continental Pipeline Co.	93	RG	May 26, 1945	-	196	57	177	252	375	360	-	5.1	-	1,290	724	-	2.9	-	-
P-54	Thesar Bros.	300	RG	Apr. 30, 1958	42	518	170	517	350	1,420	1,000	-	6.0	.9	3,850	1,990	36	5.0	5,270	7.3
P-55	do	99	RG	May 26, 1945	-	182	54	116	409	249	237	-	1.0	-	1,040	676	-	2.0	-	-
P-56	R. C. Rodriguez	100	RG	Aug. 4, 1945	-	89	27	89	258	111	136	-	.0	-	585	333	-	2.1	-	-
P-59	Valley Vitamins, Inc.	127	RG	May 24, 1945	42	150	44	104	452	190	149	.6	1.8	-	970	550	-	1.8	1,340	-
P-60	Roy Lepovitz	300	RG	Aug. 10, 1957	24	80	31	220	344	261	170	1.0	.0	.5	980	327	59	5.3	1,540	7.4
P-61	Thesar Bros.	300	RG	Apr. 30, 1958	41	430	89	192	335	736	610	-	3.0	.4	2,280	1,440	22	2.2	3,270	7.0
P-62	do	326	RG	do	26	65	29	233	332	275	172	-	.0	.2	963	281	64	6.1	1,540	7.5
P-65	-- Fletcher	110	RG	May 9, 1945	-	115	32	89	253	224	121	-	.0	-	794	418	-	1.9	-	-
P-66	R. L. Bell	329	RG	Aug. 22, 1957	22	56	23	233	346	239	138	.9	.0	1.0	930	234	68	6.6	1,430	7.3
P-67	W. J. Zackman	120	RG	June 20, 1945	-	304	77	254	350	587	512	-	9.2	-	1,920	1,080	-	3.4	-	-
P-70	Casper Arms	125	RG	May 28, 1945	-	269	58	140	372	330	400	-	1.8	-	1,380	910	-	2.0	-	-
P-71	Hidalgo County Water Dist. 3	288	RG	Apr. 21, 1953	31	78	35	192	325	216	188	-	.0	0.5	900	338	55	4.5	1,500	7.3
P-72	H. H. Kawahata	121	RG	Aug. 13, 1957	36	277	55	136	398	367	365	-	2.0	.1	1,440	917	24	2.0	2,250	7.3

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH	
P-73	-- Cook	125	RG	Aug. 4, 1945	-	-	-	-	194	220	94	-	.0	-	-	6442	-	-	-	-	
P-74	Valley Vitamins, Inc.	127	RG	July 4, 1945	-	140	29	73	352	193	97	-	1.5	-	813	468	-	2.0	-	-	
P-75	-- Cook	63	RG	May 21, 1946	-	-	-	-	127	190	120	-	2.2	-	-	6292	-	-	-	-	
P-78	Hugh Harrington	457	RG	Aug. 13, 1957	22	46	19	192	3.6	336	176	110	-	.0	.8	743	193	68	6.0	1,210	7.6
P-81	J. D. Powlik	130	RG	do	35	161	32	92	3.3	349	221	160	-	.0	.0	919	533	27	1.7	1,390	7.4
P-82	Shary Estate	110	RG	July 30, 1957	46	192	38	106	-	451	227	182	-	2.5	.2	1,020	636	27	1.8	1,590	7.4
P-90	W. O. Holton	227	RG	Feb. 28, 1951	30	70	30	76	-	251	123	92	-	.5	-	566	298	36	1.9	879	8.0
P-91	F. Burrhus	115	RG	June 20, 1945	-	620	168	607	-	372	1,560	1,150	-	9.0	-	4,300	2,240	-	5.6	-	-
P-95	Shary Estate	220	RG	Aug. 1, 1957	36	63	27	94	-	251	123	96	-	.0	.2	571	268	43	2.5	925	7.5
P-97	Oblate Fathers	150	RG	Sept.--, 1939	-	-	-	-	-	958	1,190	2.9	12	-	-	-	-	-	-	-	-
R-4	F. R. Lenser	103	RG	May 26, 1945	-	-	-	-	-	152	230	242	-	.8	-	-	-	-	-	-	-
R-5	Midvalley Farms	482	RG	Apr. 29, 1958	22	73	29	421	-	329	370	398	-	.0	3.0	1,470	301	75	11	2,390	7.6
R-6	do	475	RG	May 15, 1958	18	57	20	378	-	270	352	312	-	.2	2.0	1,270	224	79	11	2,050	7.4
R-13	J. A. Elmer	104	RG	Sept. 4, 1939	-	188	73	1,420	-	556	2,450	555	4.2	72	-	504	769	-	22	-	-
R-14	E. L. Gilliland	50	RG	Sept. 14, 1939	-	132	51	262	-	344	517	202	1.5	-	-	1,340	539	-	4.9	-	-
R-18	City of Donna	493	RG	Aug. 26, 1953	18	82	41	543	8.0	258	579	542	0.7	0.2	3.2	1,940	373	76	12	3,160	7.8
R-25	O. Dean	70	RG	Sept. 6, 1939	-	-	-	-	-	364	275	385	.4	-	-	-	-	-	-	-	-
R-30	Missouri Pacific R. R.	210	RG	June 22, 1945	-	300	93	602	-	303	1,090	745	-	6.6	-	3,210	1,130	-	7.8	-	-
R-32	J. A. Unland	86	RG	Sept. 4, 1939	-	-	-	-	-	324	183	168	1.2	-	-	-	-	-	-	-	-
R-32	do	86	RG	May 29, 1945	-	-	-	-	-	380	440	210	-	1.2	-	-	-	-	-	-	-
R-34	Juan C. Gomez	163	RG	Oct. 24, 1957	38	116	40	229	-	345	233	300	-	2.0	.4	1,130	454	52	4.7	1,880	7.5
R-38	W. J. Wittenberg	80	RG	Sept. 4, 1939	-	662	100	651	-	324	783	1,700	.1	-	-	4,060	2,070	-	6.2	-	-
R-39	C. Wichman	108	RG	do	-	-	-	-	-	238	207	450	.4	-	-	-	-	-	-	-	-
R-43	W. V. Edwards	115	RG	May 13, 1958	38	225	60	276	-	273	346	598	-	4.5	.4	1,680	808	43	4.2	2,780	6.9
R-48	Southwestern Life Insurance Co.	75	RG	Sept. 4, 1939	-	-	-	-	-	380	793	1,020	.2	-	-	-	-	-	-	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a/</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (microhmhos at 25°C)	pH
R-51	C. R. Boase	105	RG	Sept. 4, 1939	-	-	-	-	-	153	56	.3	-	-	-	-	-	-	-	-
R-56	County School	67	RG	May 29, 1945	-	168	48	105	474	208	169	-	2.8	-	864	617	-	1.8	-	-
R-60	Run School	110	RG	Sept. 6, 1939	-	134	40	225	392	365	200	.5	3.5	-	1,160	499	-	4.4	-	-
R-65	Temple Orchards	120	RG	do	-	-	-	-	-	878	995	-	552	-	-	-	-	-	-	-
R-67	-- Sheppard	187	RG	do	-	118	40	145	430	166	175	.3	2.2	-	858	459	-	2.9	-	-
R-68	A. L. Steele	80	RG	do	-	293	122	265	460	723	480	.7	-	-	-	1,230	-	3.3	-	-
S-1	Texsum Citrus Exchange	540	RG	June 22, 1945	-	83	43	514	210	461	602	-	0.8	-	1,810	384	-	11	-	-
S-1	do	540	RG	June 4, 1953	23	106	4.5	656	264	742	630	-	1.0	3.2	2,350	450	76	13	3,710	7.5
S-2	C. H. Cotton	36	MS	Sept. 6, 1939	-	-	-	-	-	329	185	1.0	-	-	-	-	-	-	-	-
S-6	O. E. Ridenove	139	RG	do	-	164	180	2,370	642	2,930	1,930	3.1	2.5	-	7,900	1,148	-	30	-	-
S-7	South Palm Garden School	20	MS	do	-	-	-	-	376	274	225	1.8	8.0	-	6428	-	-	-	-	-
S-12	City of Mercedes	338	RG	June 4, 1953	30	49	24	364	376	347	242	1.8	1.0	1.5	1,250	221	78	11	-	7.8
S-13	Henry Williamson	45	MS	Sept. 6, 1939	-	-	-	-	374	431	315	1.6	10	-	-	6390	-	-	-	-
S-14	W. A. Critchfield	40	MS	do	-	-	-	-	218	219	182	1.0	-	-	-	6420	-	-	-	-
S-16	R. J. Reger	50	MS	Nov. 5, 1957	34	94	33	177	188	246	235	-	1.0	.4	912	370	51	4.0	1,550	7.9
S-19	C. F. Barter	50	RG	Apr. 17, 1941	-	174	40	322	434	566	250	-	1.5	-	1,570	599	-	5.7	-	-
S-21	D. G. Kelkers	369	RG	May 6, 1958	34	65	28	279	442	289	168	-	.2	.9	1,080	277	69	7.3	1,680	7.8
S-22	H. H. Somnitz	144	RG	Aug. 4, 1945	-	88	26	53	229	124	87	-	2.5	-	555	326	-	1.3	-	-
S-25	W. H. Drave	148	RG	do	-	82	31	179	462	160	125	-	.0	-	837	332	-	4.3	-	-
S-29	Continental Pipeline Co.	142	RG	do	-	144	82	438	466	463	542	-	3.5	-	1,910	696	-	7.2	-	-
S-30	Wm. McKinney	100	RG	Sept. 6, 1939	-	-	-	-	-	318	190	.2	6.0	-	-	-	-	-	-	-
S-32	D. Schwartz	155	RG	Aug. 4, 1945	-	81	28	135	428	116	98	-	.0	-	700	317	-	3.3	-	-
S-35	do	155	RG	July 13, 1945	48	175	67	186	442	354	272	.6	.0	-	1,300	712	-	3.0	2,010	7.4
S-40	do	155	RG	June 14, 1945	-	91	29	106	303	149	122	-	0.0	-	790	346	-	2.5	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Hidalgo County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> <sup>-</sup> ) <sup>a/</sup>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
S-41	Justman-Frankenthal Co.	125	RG	June 14, 1945	-	82	31	92	262	166	101	-	3.2	-	604	332	-	2.2	-	-
S-44	Clayton E. Malone	256	RG	May 5, 1953	36	193	76	418	337	515	640	-	.0	1.0	2,050	794	53	6.4	3,240	7.1
S-50	N. J. Moore	140	RG	June 22, 1945	-	32	11	156	406	79	33	-	2.2	-	556	125	-	6.1	-	-
S-50	do	140	RG	Aug. 4, 1945	-	-	-	-	404	90	34	-	.8	-	-	b129	-	-	-	-
S-50	do	140	RG	June 4, 1946	-	-	-	-	370	80	41	-	3.0	-	-	b240	-	-	-	-
S-53	Dan Logan	350	RG	Apr. 30, 1958	41	82	28	131	381	130	112	-	.5	.3	717	320	47	3.2	1,150	7.5
S-54	B. J. Theimer	150	RG	Aug. 21, 1945	44	94	20	138	350	140	125	2.6	1.2	-	767	316	-	3.4	1,160	-
S-55	do	153	RG	do	48	156	22	196	400	227	237	-	2.2	-	1,090	480	-	3.9	1,720	-
S-60	Clayton Malone	180	RG	Aug. 5, 1945	-	104	36	152	449	188	124	-	.0	-	872	408	-	3.3	-	-
S-61	Relampago School	70	RG	Apr. 17, 1941	-	235	61	104	352	241	370	-	2.6	-	1,190	838	-	1.6	-	-
S-65	W. D. Chadwick	145	RG	Aug. 24, 1933	-	104	28	87	292	135	130	-	1.4	-	629	375	-	.6	-	-

a/ Includes the equivalent of any carbonate (CO<sub>3</sub>) present.

b/ Hardness by soap method.

Table 7.--Analyses of water from wells in Starr County, Texas

(Analyses given are in parts per million except specific conductance, pH, sodium adsorption ratio (SAR), and percent sodium)  
 Water-bearing unit: A, Quaternary alluvium; RG, Lower Rio Grande ground-water reservoir; O, Oakville sandstone.

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
A-2	H. P. Guerra	217	-	Oct. 26, 1950	18	68	16	1,090	308	155	1,550	14	3.1	3,040	236	91	31	5,370	8.2
A-5	do	36	-	do	70	22	18	377	496	170	252	12	2.8	1,170	129	86	14	1,890	8.3
A-6	do	325	-	do	28	126	19	1,400	156	939	1,640	34	9.9	4,270	392	89	31	6,700	7.8
A-7	do	112	-	do	117	43	21	171	355	76	100	68	1.0	772	194	66	5.3	1,110	8.2
A-8	do	170	-	do	17	227	42	2,040	156	685	3,080	-	4.9	6,170	739	86	33	10,100	7.7
A-11	Zaragosa Salinas	100	-	Oct. 18, 1950	24	132	27	1,350	167	384	2,020	-	3.6	4,020	440	87	28	6,920	7.9
A-17	J. O. Clark Fuel Co.	540	-	Dec. 4, 1950	11	58	12	2,310	222	654	3,080	-	3.0	6,240	194	96	72	10,100	7.8
A-23	Salvadore Salinas	30	-	Oct. 17, 1950	128	7.6	1.9	311	590	135	56	-	-	932	27	96	27	1,300	8.1
B-5	King Ranch Corp.	240	-	Mar. 6, 1951	23	20	19	542	422	277	476	1.2	3.0	1,570	128	90	21	2,540	7.8
B-8	do	300	-	do	32	16	4.4	907	252	559	870	18	6.2	2,540	58	97	51	4,040	8.5
B-11	Adolpho Gonzalez	500	-	Nov. 16, 1950	50	354	40	2,730	184	1,150	4,000	-	12	8,410	1,050	85	37	13,100	7.7
B-12	Enrique Gonzalez	224	-	do	88	158	36	1,360	280	754	1,750	20	7.2	4,310	542	85	25	6,880	8.1
C-3	M. M. Guerrero	308	-	Oct. 11, 1950	38	179	61	473	244	203	920	21	1.6	2,020	698	60	7.8	3,620	7.9
C-4	H. P. Guerra	311	-	Oct. 25, 1950	78	146	39	189	204	44	368	252	.72	1,220	525	44	3.6	2,060	7.5
C-7	R. T. Margo	665	0	Oct. 11, 1950	45	106	47	438	160	213	740	18	1.6	1,690	458	68	8.9	2,970	7.7
C-9	Antonio Garcia	100	-	do	67	25	21	604	644	212	489	28	-	1,760	149	90	21	2,910	8.6
C-12	Pedro Saenz	98	-	Sept. 3, 1945	-	17	8.9	364	588	61	224	12	-	977	79	-	18	-	-
C-13	H. P. Guerra	110	-	Oct. 25, 1950	34	12	20	739	664	280	620	10	5.9	2,030	112	93	31	3,360	8.4
C-17	Ignacio Trevino	410	-	do	23	71	35	473	258	260	605	17	2.1	1,610	321	76	11	2,750	8.0
C-20	Leandro Saenz	254	-	Sept. 11, 1950	42	64	24	119	235	47	193	4.5	-	654	258	50	3.2	1,100	8.2
C-24	Cruz Saenz	150	-	Sept. 12, 1950	63	322	107	1,370	230	1,270	1,910	17	7.4	5,170	1,240	71	17	7,830	7.6
D-4	Victor Contreras	84	-	Sept. 6, 1950	70	60	4.8	498	268	226	565	222	2.2	1,820	347	76	12	3,060	8.2
D-5	Andrea Garza	217	-	Oct. 5, 1950	71	85	62	785	409	323	1,060	7.5	2.0	2,590	467	79	16	4,570	8.4
D-9	Mrs. Rustacio Zarate	500	-	Sept. 6, 1950	20	94	42	921	236	437	1,240	16	2.9	2,890	407	83	20	4,940	8.1

See footnotes at end of table.

Table 7.--Analyses of water from wells in Starr County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) a/3	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
D-12	Augustine Olivarez	120	-	Sept. 6, 1950	18	202	107	911	220	563	1,500	52	4.3	3,470	944	68	13	5,790	7.8
D-19	San Isidro School Dist.	823	0	do	22	13	4.5	316	242	84	320	.0	1.0	895	51	93	19	1,580	8.5
D-26	Jay Simmons	844	0	do	23	5.2	2.1	315	290	112	250	.5	1.3	870	22	97	31	1,480	8.6
D-28	Guerra Bros.	710	0	Sept. 5, 1950	20	5.5	2.3	344	296	122	285	.0	1.6	935	23	97	30	1,620	8.5
D-28	do	710	0	Aug. 19, 1957	-	-	-	-	301	-	285	-	-	-	19	-	-	1,600	8.3
D-44	L. Penna	150	-	Sept. 5, 1950	24	44	46	918	758	395	892	6.6	6.4	2,710	299	86	23	4,530	8.6
D-50	M. J. Rodriguez	962	0	Nov. 10, 1950	20	15	6.1	533	350	221	500	.0	2.1	1,470	62	95	29	2,470	8.3
E-3	H. P. Guerra	305	-	Nov. 2, 1950	22	51	19	636	250	568	560	1.0	2.3	1,970	205	87	19	3,190	8.0
E-6	do	250	-	do	24	702	48	1,990	30	2,600	2,520	-	5.1	7,900	1,950	69	19	10,800	6.5
E-7	do	300	-	do	50	102	29	761	224	797	720	0.0	2.4	2,570	374	82	17	3,980	7.7
E-8	R. T. Margo	700	-	Oct. 31, 1950	18	9.5	6.6	1,840	1,740	78	1,800	.0	15	4,620	50	99	113	7,480	8.8
E-10	Santos Canales	262	-	Nov. 2, 1950	19	2.5	1.7	795	426	496	620	1.5	-	2,140	13	99	89	3,540	8.2
E-13	L. J. Ruthven	268	-	Dec. 15, 1950	10	142	24	1,570	140	1,700	1,400	7.5	6.0	4,930	453	88	32	7,120	8.0
E-19	Juan Margo	71	-	Oct. 31, 1950	52	28	4.2	223	489	49	58	47	1.2	702	88	85	10	1,080	8.4
E-20	Melquiades Salinas	350	-	do	26	9.0	9.7	1,020	784	109	1,080	.0	3.5	2,640	62	97	55	4,550	8.4
E-25	H. P. Guerra	250	-	Nov. 1, 1950	16	128	36	611	140	938	500	.5	2.1	2,300	468	74	12	3,450	7.5
E-28	Nicolas Silva	100	-	do	10	102	31	1,440	188	1,420	1,330	4.0	4.2	4,430	382	89	32	6,640	7.9
F-1	Salvadore Salinas	340	-	Oct. 18, 1950	19	13	2.9	1,240	240	387	1,520	1.0	2.0	3,300	44	98	80	5,800	7.8
F-3	do	240	-	Oct. 17, 1950	20	66	7.3	2,030	102	600	2,760	-	11	5,540	194	96	63	9,370	7.9
F-10	Juan Ramos	129	-	do	19	34	2.2	1,580	97	458	2,100	-	12	4,250	94	97	70	7,210	7.9
F-12	Nicasio Guerra	381	-	Oct. 16, 1950	34	491	28	6,160	115	1,190	9,500	-	13	17,500	1,340	91	73	26,300	7.4
F-14	Abel Sanchez	285	-	Jan. 13, 1950	18	212	24	2,300	196	1,660	2,650	5.0	6.2	6,970	628	89	40	10,600	7.2
F-16	Antonio Saenz	200	-	do	22	248	69	1,920	336	914	2,730	5.0	3.8	6,080	902	82	28	9,820	7.2
F-21	Enrique Gonzalez	204	-	Sept. 20, 1950	26	74	7.9	2,640	311	885	3,390	-	14	7,190	217	96	78	11,400	7.5
G-1	Procopio Guerra	515	-	Jan. 3, 1951	14	105	9.6	2,720	106	1,220	3,450	-	15	7,590	302	95	68	11,700	7.8

See footnotes at end of table.



Table 7.--Analyses of water from wells in Starr County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sup>1/2</sup>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Micrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Ferrous-sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
G-4	H. P. Guerra	290	-	Oct. 25, 1950	32	88	30	385	238	277	470	42	1.4	1,460	343	71	9.0	2,410	7.8
G-11	George Coates	530	-	Sept. 14, 1950	96	292	49	2,080	236	1,640	2,520	.8	6.7	6,810	930	83	30	10,100	7.9
G-17	Isabel S. Lopez	31	-	do	100	22	17	70	226	44	28	9.2	0.50	407	125	55	2.7	553	8.0
G-18	Mrs. Lilla Martinez	285	-	Jan. 13, 1950	24	34	12	323	512	106	205	21	1.3	1,000	134	84	12	1,680	8.1
G-19	Enrique Gonzalez	290	-	do	88	452	138	1,630	252	818	2,790	164	4.5	6,180	1,570	69	18	9,880	7.1
G-20	do	260	-	do	23	202	48	1,080	242	751	1,390	122	4.4	3,740	702	77	18	6,050	7.4
G-23	Domingo L. Garza	284	-	Sept. 20, 1950	103	63	20	244	300	72	265	93	-	1,010	239	69	68	1,620	8.3
G-24	Leandro Resendez	380	-	Jan. 13, 1950	88	519	101	3,680	233	1,810	5,420	-	16	11,700	1,710	82	39	17,700	7.4
G-25	Martin Garza	275	-	Sept. 7, 1950	90	106	33	541	274	1,120	125	12	1.9	2,160	400	75	12	2,890	8.3
H-3	Cruz Saenz	71	-	Sept. 12, 1950	84	32	17	31	174	15	30	21	-	324	150	31	1.1	449	7.8
H-7	M. S. Hinojosa	130	-	Sept. 11, 1950	52	28	12	305	372	51	293	13	-	971	120	85	12	1,670	8.5
H-8	Hilario Saenz	256	-	do	84	46	12	32	220	9.2	28	6.6	.45	330	164	30	1.1	520	7.8
H-10	Eugenio Saenz	365	-	Sept. 26, 1950	34	100	29	318	350	45	498	29	1.2	1,220	368	65	93	2,220	8.1
H-21	Mrs. S. G. Pena	400	-	Sept. 7, 1950	22	147	66	810	236	282	1,340	28	3.6	2,810	638	73	14	4,990	8.1
H-27	Arkansas Fuel Co.	1,007	-	Nov. 14, 1950	13	54	12	815	138	1,330	325	.0	5.3	2,620	184	91	26	3,780	7.7
H-30	Melico Longoria	200	-	Oct. 25, 1950	78	60	9.9	54	304	17	22	13	1.9	418	190	38	1.7	621	8.1
H-34	Liberato Barrera	281	-	Sept. 13, 1950	32	188	43	678	251	462	990	46	3.5	2,560	646	70	12	4,340	8.0
H-35	Leandro Elizondo	215	-	Sept. 7, 1950	36	174	59	532	150	209	1,030	50	2.3	2,170	676	63	8.9	3,920	8.0
H-39	Rowan & Hope	540	-	Sept. 5, 1950	26	96	43	723	164	288	1,100	4.0	2.6	2,360	416	79	15	4,250	8.0
H-45	Cameron Ranch	245	-	Jan. 13, 1950	20	128	50	652	314	288	970	20	3.3	2,290	525	73	12	4,050	7.1
H-47	do	260	-	do	25	128	47	556	314	311	780	50	2.8	2,050	513	70	11	3,510	7.3
H-51	do	254	-	do	28	128	38	514	324	250	730	46	3.3	1,900	476	70	10	3,320	7.3
H-52	do	260	-	do	15	202	82	774	212	441	1,310	55	3.6	2,990	841	67	12	5,100	7.3
H-55	Continental Oil Co.	963	0	Sept. 15, 1950	26	213	25	1,590	153	3,040	570	1.0	10	5,540	634	85	27	7,070	7.9
J-4	Sun Oil Co.	911	0	Feb. 27, 1957	18	30	8.8	458	250	214	480	1.5	-	1,330	111	90	19	2,310	7.8

See footnotes at end of table.

Table 7.--Analyses of water from wells in Starr County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>a/</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
J-5	Continental Oil Co.	875	0	Sept. 27, 1950	18	18	5.8	448	240	208	447	.0	-	1,260	69	93	23	2,200	8.3
J-25	Sun Oil Co.	902	0	Feb. 27, 1957	-	-	-	-	236	-	500	-	-	-	111	-	-	2,350	8.3
J-31	P. H. Longoria	200	-	Sept. 5, 1950	34	50	42	399	196	260	505	27	1.8	1,410	298	74	10	2,640	8.2
J-34	T. W. Lee	220	-	do	22	150	107	1,360	200	655	2,080	-	6.2	4,480	814	78	21	7,600	8.0
J-39	do	823	0	do	17	25	6.6	638	230	261	720	.5	2.6	1,780	90	94	29	3,110	8.4
J-41	W. P. Hauser	434	0?	do	20	105	37	697	228	291	1,020	.0	3.0	2,290	414	79	15	4,040	8.2
K-1	H. P. Guerra	300	-	Aug. 31, 1945	-	-	-	-	289	500	384	3.9	-	-	b150	-	-	-	-
K-2	do	400	-	do	-	-	-	-	756	0	2,310	9.8	-	-	b57	-	-	-	-
K-4	do	300	-	Aug. 30, 1945	-	-	-	-	776	6	4,780	3.5	-	-	b165	-	-	-	-
K-5	do	250	-	Dec. 7, 1950	11	12	7.0	1,640	487	1,580	1,120	2.5	2.2	4,610	59	98	92	6,730	8.2
K-6	Manuel Ramirez	200	-	Aug. 30, 1945	-	-	-	-	460	900	2,410	9.6	-	-	b24	-	-	-	-
L-1	Pedro B. Ross	314	-	Jan. 13, 1950	12	84	19	1,990	236	1,640	1,920	5.0	6.2	5,790	288	94	51	8,850	7.4
L-3	Francisco Garcia	275	-	Oct. 16, 1950	5.6	598	165	9,290	93	261	15,800	-	13	25,900	2,170	90	87	38,400	7.1
L-5	Jurvencio Garza	45	-	Aug. 29, 1945	-	-	-	-	487	380	505	102	-	-	b158	-	-	-	-
L-6	Guadalupe Alvarez	35	-	do	-	-	-	-	280	60	69	38	-	-	b158	-	-	-	-
L-7	Margarito Bermudez	40	A?	do	-	-	-	-	197	24	32	2.2	-	-	b285	-	-	-	-
L-8	A. Perez	100	RG	do	-	-	-	-	531	2,500	1,920	26	-	-	b525	-	-	-	-
L-9	Las Garzas Ranch	32	RG	do	-	-	-	-	251	340	1,900	5.0	-	-	b1,380	-	-	-	-
L-10	Martin Cavazos	32	-	do	-	-	-	-	379	550	1,530	38	-	-	b690	-	-	-	-
L-14	Manuel Munoz	206	-	Nov. 13, 1950	9.2	16	4.4	1,310	530	264	1,550	4.0	13	3,420	58	98	73	5,910	8.3
L-16	E. G. Gonzales	58	RG	July 23, 1957	38	190	42	288 8.2	629	284	318	8.1	.9	1,490	646	49	4.9	2,350	7.1
M-1	Domingo L. Garza	284	-	Sept. 7, 1950	96	55	10	460	272	285	420	82	3.8	1,550	178	85	15	2,460	8.3
M-11	Santano Guerrero	204	-	do	101	145	26	937	308	821	945	81	6.6	3,210	469	81	19	4,860	8.3
M-16	Trinidad Rodriguez	182	-	do	88	115	17	707	139	255	1,070	8.0	2.5	2,330	357	81	16	4,060	8.0

See footnotes at end of table.

Table 7.--Analyses of water from wells in Starr County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
M-19	Florentino Barrera	182	-	Nov. 22, 1950	39	278	80	1,140	252	591	1,880	42	7.4	4,180	1,020	71	16	6,860	8.1
M-22	Luis Martinez	85	-	Oct. 5, 1945	-	78	24	445	264	190	525	130	-	1,580	293	-	11	-	-
M-23	Felix Chapa	200	-	do	-	224	45	1,510	284	1,200	1,790	22	-	4,930	744	-	24	-	-
M-24	G. E. Dodd	80	-	do	-	175	36	837	384	291	1,260	11	-	2,800	584	-	15	-	-
M-31	Clopton Estate	60	RG?	Aug. 16, 1945	-	524	152	637	108	1,820	945	3.0	-	4,130	1,930	-	6.3	-	-
M-34	Willie Richmond	32	RG?	Aug. 27, 1945	-	-	-	-	183	1,100	1,030	30	-	-	1,260	-	-	-	-
M-38	Valley Brick & Tile Co.	54	-	Aug. 16, 1945	-	122	35	1,890	361	2,360	1,280	.8	-	5,870	448	-	39	-	-
M-40	-- Backe	70	RG	Aug. 27, 1945	-	118	47	257	523	359	173	0.8	-	1,210	488	-	5.1	-	-
M-41	E. Moore	35	-	do	-	-	-	-	326	1,200	2,860	5.5	-	-	6990	-	-	-	-
M-42	C. H. McColeary	32	RG?	Aug. 29, 1945	-	-	-	-	385	60	370	6.3	-	-	6585	-	-	-	-
M-47	Ringold Farms	46	RG	July 30, 1957	21	86	14	81	171	101	147	2.2	0.2	578	272	39	2.1	943	7.2
M-50	J. H. Guerra	55	RG	Aug. 23, 1957	29	428	120	670	408	1,460	870	2.0	2.4	3,780	1,560	48	7.4	5,260	7.2
M-53	Alfredo Rodriguez	54	RG	Aug. 21, 1957	33	240	57	268	298	565	402	9.4	.7	1,930	834	41	4.0	2,590	7.2
M-62	La Casita Farms	60	RG	July 24, 1957	39	282	75	332	376	735	475	8.8	.79	2,140	1,010	41	4.5	3,120	6.9
M-63	do	85	RG	do	44	244	52	230	332	500	370	4.2	.52	1,610	823	38	3.5	2,440	7.4
M-68	Martha Clopton	64	RG	July 23, 1957	42	163	39	138	461	205	190	3.0	.38	1,010	568	34	2.5	1,610	6.9
M-72	Baldrige & Jones	46	RG	do	46	215	50	203	408	420	290	.2	.29	1,430	742	37	3.2	2,170	7.2
M-77	Guillermo Martinez	70	RG	July 29, 1957	48	184	45	172	695	198	182	4.5	.60	1,180	644	36	2.9	1,870	7.2
N-2	T. W. Lee	285	-	Oct. 1, 1945	-	184	59	687	253	462	1,040	50	-	2,610	702	-	11	-	-
N-3	J. A. Wetzel	240	-	do	-	178	52	588	278	310	960	36	-	2,260	658	-	10	-	-
N-5	do	477	-	Sept. 20, 1950	3.6	82	25	1,060	101	1,130	945	22	-	3,320	308	88	26	5,130	7.8
N-7	T. B. Slick Estate	220	-	Sept. 29, 1945	-	120	35	228	345	80	385	37	-	1,060	444	-	4.7	-	-
N-9	do	210	-	do	-	82	24	479	310	172	605	72	-	1,590	303	-	12	-	-
N-13	Filomena Flores	217	-	Sept. 6, 1945	-	71	21	302	380	58	368	37	-	1,040	264	-	8.1	-	-

See footnotes at end of table.

Table 7.--Analyses of water from wells in Starr County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sub>2</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Mt-trate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Ferrous-sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
N-15	Juan Ruiz	170	-	Sept. 28, 1945	-	68	23	421	365	67	545	51	-	1,390	264	-	11	-	-
N-16	M. Flores	200	-	Sept. 19, 1945	-	76	18	211	441	62	191	33	-	845	264	-	5.6	-	-
N-17	L. Flores	160	-	do	-	150	41	393	276	40	775	45	-	1,580	543	-	7.3	-	-
N-18	Juan Flores	217	-	Sept. 28, 1945	-	68	20	335	388	60	400	43	-	1,120	252	-	9.2	-	-
N-22	Sun Oil Co.	200	-	Sept. 28, 1950	58	70	32	231	169	89	397	22	-	1,080	306	62	5.8	1,760	8.0
N-23		203	-																
N-24	Manuel Gonzalez	180	-	Sept. 6, 1945	-	159	44	340	336	118	625	45	-	1,500	578	-	6.1	-	-
N-25	Manuel Somano	171	-	Sept. 19, 1945	-	183	54	464	375	78	900	37	-	1,900	678	-	7.7	-	-
N-26	Juan Salinas	208	-	Sept. 6, 1945	-	150	30	280	319	81	512	48	-	1,260	498	-	5.4	-	-
N-27	do	200	-	Jan. 13, 1950	18	224	111	1,950	316	871	2,870	60	14	6,270	1,020	81	27	10,200	7.5
N-28	Sun Oil Co.	250	-	Sept. 6, 1945	-	108	31	250	289	138	380	30	-	1,080	397	-	5.5	-	-
N-29	do	220	-	do	-	-	-	-	83	5,000	598	1.0	-	-	b638	-	-	-	-
N-30	Felipe Solis	45	-	Sept. 28, 1950	74	33	20	371	253	89	418	101	1.5	1,230	164	83	13	2,030	8.2
N-33	Octaviano Cunchu	50	-	do	84	97	47	1,000	230	835	1,080	26	5.3	3,290	436	83	31	5,250	7.9
N-40	Narcisco Pena	56	-	do	56	24	9.4	447	521	118	295	138	1.4	1,340	398	91	19	2,110	8.3
N-43	Estaban Garcia	800	-	Sept. 5, 1945	-	-	-	-	81	5,000	795	1.8	-	-	b532	-	-	-	-
N-44	Luis Pena	95	-	do	-	111	32	455	474	274	498	26	-	1,630	408	-	9.8	-	-
N-46	Maximo Diaz	90	-	do	-	-	-	-	262	300	1,080	42	-	-	1,080	-	-	-	-
N-52	Cristobal Ssenz	62	RG	Aug. 24, 1945	-	146	67	239	612	347	208	3.8	-	1,310	640	-	4.1	-	-
N-53	Juan Solis	61	RG	Aug. 25, 1945	-	-	-	-	433	190	225	1.8	-	-	b450	-	-	-	-
N-54	Elas Gonzalez	60	RG	Aug. 24, 1945	-	-	-	-	331	200	124	1.2	-	-	b352	-	-	-	-
N-55	Severa Moreno	74	RG	Aug. 15, 1945	-	136	89	316	432	527	348	.8	-	1,630	706	-	5.2	-	-
N-57	-- Garza	28	RG	Aug. 24, 1945	-	-	-	-	414	380	212	62	-	-	b675	-	-	-	-
N-58	C. W. Butler	60	RG	Aug. 16, 1957	38	231	57	201	412	241	468	3.0	0.42	1,440	811	35	3.1	2,400	7.1
N-59	do	60	RG	do	42	168	39	130	614	93	188	.0	.37	1,060	580	33	2.4	1,620	7.2

\* Composite sample.  
See footnotes at end of table.

Table 7.--Analyses of water from wells in Starr County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sup>a/</sup>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
M-60	C. W. Butler	60	RG	Aug. 16, 1957	42	206	52	176 -	661	121	310	2.0	.48	1,240	728	34	2.8	2,060	7.1
M-62	Adan Gonzalez	61	RG	Aug. 6, 1957	55	200	45	136 -	659	190	162	.0	.00	1,110	684	30	2.3	1,740	7.2
M-64	Reynaldo Vera	65	RG	July 29, 1957	56	254	57	195 -	676	341	272	6.8	.00	1,510	868	33	2.9	2,280	7.3

<sup>a/</sup> Includes equivalent of any carbonate (CO<sub>3</sub>) present.

<sup>b/</sup> Hardness by soap method.

Table 7.--Analyses of water from wells in Willacy County, Texas.

(Analyses given are in parts per million except specific conductance, pH, sodium adsorption ratio (SAR), and percent sodium)  
 Water-bearing unit: MS, Mercedes-Sebastian shallow ground-water reservoir; G, Goliad sand.

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)		Bicarbonate (HCO <sub>3</sub> ) a/	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
A-1	C. M. Corbett	732	G	Aug. 14, 1957	14	54	17	745	4.3	220	346	940	0.5	3.9	2,230	204	89	23	3,870	8.0
A-2	do	1,090	G	do	13	59	21	768	5.5	215	395	940	1.0	3.8	2,310	234	87	22	3,930	7.9
A-3	do	1,050	G	do	18	36	13	698	-	196	274	860	.2	3.7	2,000	144	91	25	3,500	8.1
A-5	Garcia & Dougherty	860	G	Aug. 12, 1957	20	23	5.2	572	-	224	213	640	1.0	2.2	1,590	79	94	28	2,750	8.3
A-7	Bob Allan	964	G	July 23, 1957	18	30	6.9	635	5.3	174	335	698	2.5	3.0	1,820	104	93	27	3,150	7.7
A-9	Pan American Oil Co.	870	G	Oct. 21, 1957	16	45	10	664	-	124	562	640	2.5	4.0	2,000	154	90	23	3,320	8.1
A-10	Kiecke Community well	1,025	G	Nov. 7, 1957	-	-	-	-	-	128	-	648	-	-	-	214	-	-	3,620	7.8
A-11	C. J. Scott	950	G	Aug. 14, 1957	18	53	8.2	691	-	114	562	680	.5	3.4	2,070	166	90	23	3,390	7.9
A-15	Rudaman Land Co.	900	G	July 16, 1957	8.8	66	19	883	-	92	375	1,200	4.0	-	2,600	242	89	25	4,530	7.7
B-3	Hurl Thomas	900	G	Aug. 5, 1957	18	15	5.3	596	-	210	314	620	.5	4.0	1,680	60	96	34	2,830	8.5
B-4	Yturria Land & Cattle Co.	995	G	Oct. 18, 1957	12	580	56	1,180	-	46	3,070	720	.0	-	5,640	1,680	61	13	6,860	8.1
B-5	do	1,115	G	do	15	60	16	675	-	152	874	460	.0	-	2,180	216	87	20	3,310	8.4
B-6	do	1,024	G	do	26	74	16	887	-	181	1,300	480	.0	-	2,870	250	89	24	4,140	7.9
B-7	do	1,258	G	do	13	50	14	900	-	151	1,260	500	.2	-	2,810	182	91	29	4,180	8.2
B-8	do	1,128	G	do	17	56	11	1,660	-	138	2,610	680	0.0	-	5,100	184	95	53	6,940	9.3
B-9	do	946	G	do	18	10	2.4	508	-	263	316	422	.2	-	1,410	35	97	37	2,380	8.3
B-10	W. E. Bakke, Jr.	970	G	July 30, 1957	21	26	9.1	623	-	204	582	470	.2	3.9	1,840	102	93	27	3,000	8.2
B-12	do	830	G	do	8.5	46	13	1,060	-	171	1,190	750	.2	8.6	3,160	168	93	35	4,830	8.2
B-15	Conley Cattle Co.	950	G	Aug. 6, 1957	-	-	-	-	-	177	-	700	-	-	-	120	-	-	3,620	8.2
B-16	do	852	G	Aug. 21, 1957	11	38	12	676	-	183	345	770	3.5	4.6	1,950	144	91	24	3,330	8.0
B-17	do	876	G	do	16	100	28	849	-	173	507	1,080	6.0	5.4	2,680	364	84	19	4,450	7.7
B-18	do	855	G	do	11	8.2	2.2	566	-	226	361	475	3.0	4.4	1,540	30	98	45	2,580	8.5

See footnotes at end of table.

Table 7.--Analyses of water from wells in Willacy County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)		Bicarbonate (HCO <sub>3</sub> ) <sub>a/</sub>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dis-solved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
B-20	A. M. Pickard	1,100	G	Aug. 21, 1957	18	24	6.2	656	5.0	171	618	520	.0	5.1	1,940	86	94	31	3,150	8.0
B-21	City of Raymondville	1,054	G	Sept. 23, 1953	16	26	8.4	771	4.3	166	830	570	.0	5.8	2,320	100	94	33	3,650	7.9
C-6	David V. Mayo	1,340	G	Aug. 6, 1957	-	-	-	-	-	142	1,540	580	-	-	-	257	-	-	4,840	8.1
C-7	City of San Perlita	1,429	G	July 16, 1957	20	86	24	1,060	9.6	132	1,860	450	3.0	6.3	3,590	313	88	26	4,980	7.9
C-8	San Perlita Water Co-op	1,350	G	Aug. 13, 1957	17	166	62	1,350	-	116	2,080	940	.5	8.2	4,680	669	81	23	6,520	8.0
C-9	F. A. Shewmaker	15	-	do	-	-	-	-	-	291	-	365	-	-	-	282	-	-	1,700	8.3
C-10	Humble Oil & Refining Co.	1,379	G	Oct. 28, 1957	22	121	15	1,000	-	356	1,480	500	1.5	6.5	3,320	364	86	23	4,580	-
C-13	Busch Bros.	1,140	G	Aug. 23, 1957	-	-	-	-	-	98	-	1,110	-	-	-	678	-	-	6,310	7.5
C-14	Don Stone	1,147	G	Aug. 20, 1957	11	121	26	1,130	-	65	1,740	670	3.0	9.6	3,740	409	86	24	5,170	8.1
C-15	do	1,140	G	do	14	124	43	1,160	-	104	1,560	900	2.0	8.9	3,860	486	84	23	5,510	7.7
C-16	A. J. Schubert	1,138	G	Aug. 21, 1957	15	130	52	1,360	17	126	1,660	1,170	.0	11	4,480	538	84	25	6,590	7.5
D-2	Port Mansfield Authority	1,580	G	Aug. 2, 1957	20	528	140	2,340	-	77	4,990	1,300	.5	9.1	9,370	1,890	73	23	11,000	7.7
E-2	City of Lyford	1,935	G	Oct. 9, 1953	16	191	51	1,210	8.6	91	2,000	860	.0	4.9	4,390	686	79	20	6,180	7.6
E-4	E. Lagerstram, Jr.	22	MS	Oct. 25, 1957	60	90	52	627	9.8	516	357	650	137	2.6	2,240	438	75	13	3,510	8.2
E-6	C. R. Anderson	20	MS	do	48	732	124	732	43	413	1,100	1,740	45	5.0	4,770	2,340	40	6.6	7,040	7.0
E-9	John Williams	28	MS	Oct. 28, 1957	58	142	38	177	-	454	196	165	112	.6	1,110	511	43	3.4	1,740	7.6
E-11	Elias Allan	129	MS	Aug. 19, 1957	34	52	48	1,290	-	552	935	1,160	5.0	5.6	3,800	327	90	31	5,810	7.7
E-12	Lyford Independent School District	30	MS	do	68	60	56	915	-	564	652	820	52	3.6	2,910	380	84	20	4,470	7.5
E-13	M. S. Oakes	29	MS	Oct. 28, 1957	-	-	-	-	-	764	-	448	-	-	-	166	-	-	3,540	8.0
E-14	-- Richardson	30	MS	Aug. 26, 1957	-	-	-	-	-	404	-	690	-	-	-	918	-	-	3,050	7.6
E-15	R. L. Williams	15	MS	Oct. 28, 1957	-	298	-	-	-	277	-	2,350	-	-	-	1,590	-	-	8,880	8.0
E-16	do	17	MS	do	45	124	25	246	-	435	114	295	31	-	1,120	412	56	5.3	1,890	8.0

See footnotes at end of table.

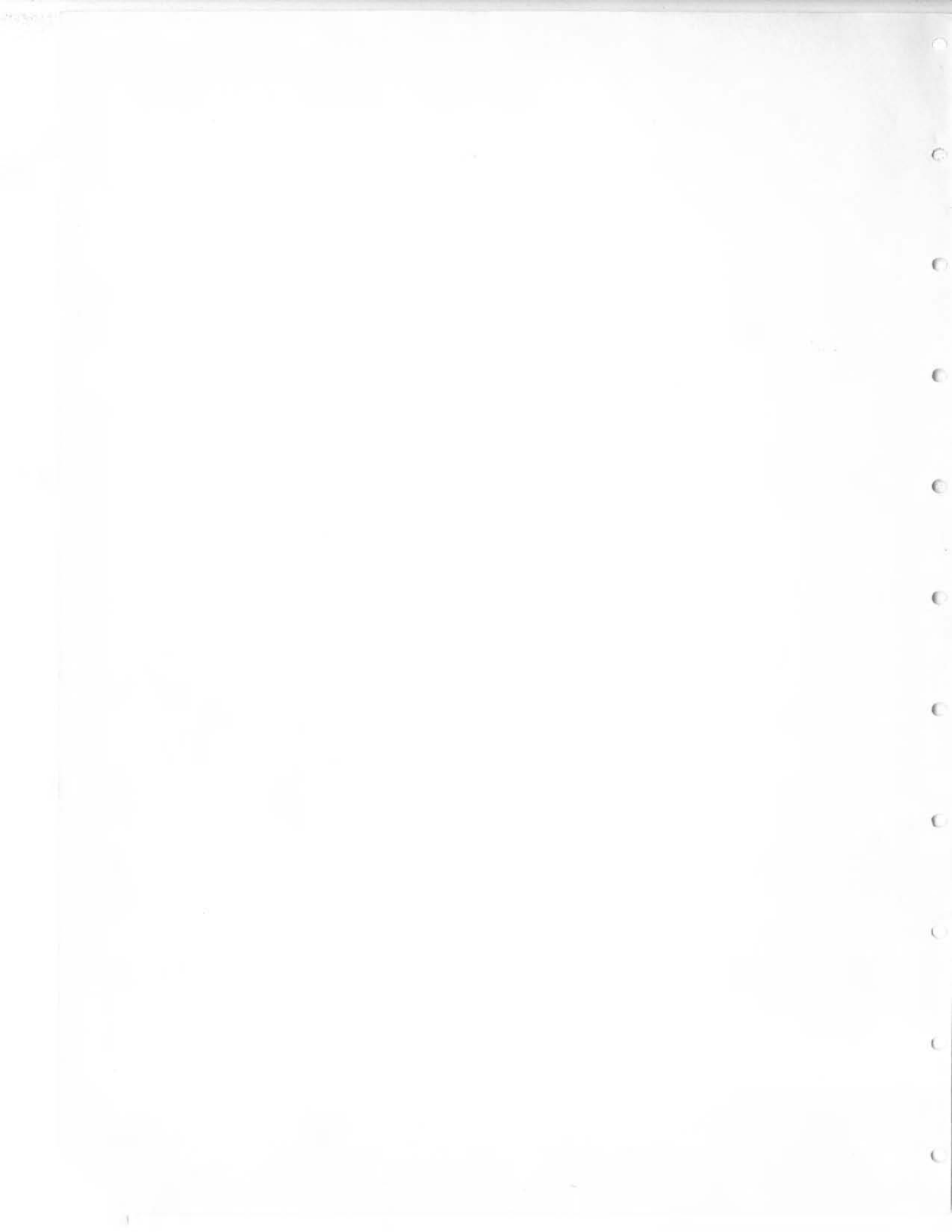
Table 7.--Analyses of water from wells in Willacy County--Continued

Well	Owner	Depth of well (ft.)	Water-bearing unit	Date of collection	Silica (SiO <sub>2</sub> )	Calcium (Ca)	Magnesium (Mg)	Sodium and potassium (Na + K)	Bicarbonate (HCO <sub>3</sub> ) <sup>a</sup>	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Boron (B)	Dissolved solids	Total hardness as CaCO <sub>3</sub>	Percent sodium	Sodium adsorption ratio (SAR)	Specific conductance (micromhos at 25°C)	pH
E-18	Lee Jacobs	18	MS	Nov. 7, 1957	-	-	-	-	247	-	35	-	-	-	209	-	-	571	7.9
E-19	do	17	MS	do	-	-	-	-	578	-	508	-	-	-	117	-	-	4,280	8.2
E-20	Los Coyotes Gln	1,355	G	Oct. 28, 1957	9.5	218	41	1,500	66	2,910	660	1.0	8.4	5,380	712	82	24	7,060	7.5
F-2	T. G. Garcia	18	-	Aug. 12, 1957	-	-	-	-	435	-	1,380	-	-	-	1,400	-	-	4,990	8.2
F-5	J. D. Campbell	15	-	Oct. 28, 1957	20	32	6.4	31	177	6.8	14	1.5	-	199	106	39	1.3	333	8.1

<sup>a</sup>/ Includes the equivalent of any carbonate (CO<sub>3</sub>) present.









EXPLANATION

- Well with hand pump, bucket, or bailer.
  - Flowing well
  - Well with windmill or small power pump.
  - Well with pumping plant, 5 horsepower or larger.
  - Flowing well with pumping plant, 5 horsepower or larger.
  - Unused well
  - Oil test
  - 57
- Line above well number indicates chemical analysis is available.

0 1 2 3 4 5 6 7 8 Miles

Base adapted from general highway maps of the Texas Highway Department. 1956

MAP SHOWING LOCATION OF WELLS IN THE LOWER RIO GRANDE VALLEY AREA