

# Texas Board of Water Engineers

C. S. Clark, Chairman

John W. Pritchett, Member

E. V. Spence, Member



## SWISHER COUNTY, TEXAS

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

PREPARED IN COOPERATION WITH THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY  
MAY, 1946

**TEXAS BOARD OF WATER ENGINEERS**

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By

John H. Dante

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### Introduction

This publication gives the results of water well surveys in Swisher County to December 1945 and is the second such report relating to the county, the first being released in 1938. This report was prepared in cooperation between the Texas State Board of Water Engineers and the U. S. Department of the Interior, Geological Survey. It contains records of 610 wells and springs, drillers' logs of 71 wells, chemical analyses of water from 54 wells and springs and results of periodic water-level measurements in 32 observation wells. It also includes a map showing the location of all wells and springs recorded in the tables. Each well or spring is given a number on the map corresponding to the number assigned to it in the records.

A part of the records were obtained by C. R. Follett in 1937, and by W. L. Broadhurst and W. H. Alexander, Jr., between 1938 and 1944; the remainder were obtained, and many of the earlier records were brought up-to-date by the writer during November and December 1945.

Included in the table of well records is the following information: well number, location and depth of well, name of owners and driller, length and size of casing, depth to the water level on given dates, method of lift and use of water. In the "remarks" column the items of information include the size of the pump, diameter of the pump column, depth of pump setting, yield of pump in gallons a minute, the drawdown in the water level during pumping, and the number of acres irrigated from the well.

The water analyses were made under the supervision of E. W. Loch or W. W. Hastings, Chemists of the Quality of Water Division of the Federal Geological Survey and Dr. E. P. Schuch, Director of the Bureau of Industrial Chemistry of The University of Texas. The results of the analyses relate to the mineral constituents in the water and not to its sanitary character.

Grateful acknowledgment is due to the owners of wells and pumping plants in Swisher County, who have given their cooperation in the collection of these data. The well drillers and representatives of pump companies also have contributed freely of their information.

A limited number of copies of this report are available for free distribution. They may be obtained by addressing a request to Mr. C. S. Clark, Chairman, Texas State Board of Water Engineers, 302 West 15th Street, Austin 14, Texas.

Records of wells in Swisher County, Texas  
All wells are drilled unless noted in the remarks column

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
1	13 miles northwest	Mrs. Lula F. Vaughan	E. R. Sprawls	1936	203	18	1.1
2	12½ miles northwest	Mrs. Ludwig Irlbeck	--	Old	94	6	0.5
3	12 miles north	A. A. Fonken	--	1907	102	6	1.0
3A	14 miles northwest	W. E. Williamsen	--	--	114	5	0.5
4	11½ miles northwest	W. D. Heller	--	--	95	--	0.5
5	do.	--	--	1937	78	6	0.0
6	12 miles north	Albert Bertelson	W. D. Witt	1937	200	18	--
7	11½ miles north	do.	Sprawls and Miller	1935	200	18	--
8	11 miles north	do.	do.	1935	200	18	--
9	9 miles north	Fred Lamar	Truper Hall	1937	220	18	0.0
10	8½ miles north	Dewitt Parker	Henry Patzig	1937	217	18	1.5
11	9 miles north	Jack Avent	--	--	91	6	0.0
12	10 miles north	C. D. Taylor	--	--	72	6	0.5
13	9½ miles north	Louis Smith	--	Old	85	--	2.7
14	8½ miles north	B. F. Smith	--	--	64	--	0.9
15	7½ miles north	Mrs. H. C. George	--	Old	99	6	0.5
16	7 miles north	Clyde Bradford	--	--	78	--	0.1
17	7½ miles north	Kaffir School	--	--	85	--	--
18	8½ miles north	Mrs. H. C. George	--	--	85	--	4.0
19	9½ miles north	D. E. Armontrout	R. P. McDaniels	1937	224	14	--
20	11½ miles northwest	A. W. Fortner	--	1936	200	18	--

a/ Measuring point was usually top of casing, top of wood pipe clamp, top of concrete pump foundation, or top of air-line hole in pump base.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasline; Ng, natural gas; O, diesel or semi-diesel; W, windmill; H, hand; number indicates horsepower.

Chemical analyses of water from most of these wells are given in the table of analysis.

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
1	89.5	Oct. 18, 1937	T,G, 40	Irr	Casing: 12-inch from 168 to 188 feet. Pump: 3 stage. set at 164 feet with 10 feet of suction. Irrigated 77 acres of wheat and truck in 1937. Reported yield 550 gallons a minute with 74 feet draw-down in 1937. Red beds at 188 feet.
2	77.9 77.7	July 26, 1937 July --, 1942	--	N	
3	82.8	July 16, 1937	C,W	D,S	Yield, 5 gallons a minute, estimated in 1937.
3a	99.5 99.6	June 11, 1938 July 27, 1942	C,W	S	
4	81.9	June 5, 1937	C,W	S	
5	72.6	Aug. 10, 1937	None	N	Drilled for seismograph work.
6	--	--	None	N	Formerly used for irrigation. Reported yield, 400 gallons a minute.
7	--	--	None	N	
8	--	--	None	N	Reported yield, 300 gallons a minute.
9	d/ 76	--	T,G, 85	Irr	No casing. Pump: 3 stage set at 140 feet with 34 feet of suction. Irrigated 30 acres feed in 1937. Reported yield, 700 gallons a minute in 1937. "Red Beds" at 220 feet.
10	75.2	Nov. 29, 1937	None	N	Casing: 12-inch, from 177 to 217 feet. Irrigated 70 acres feed in 1937. Reported yield in 1937, 600 gallons a minute.
11	86.4	do.	C,W	N	
12	62.1	July 24, 1937	C,W	D,S	Estimated yield, 4 gallons a minute.
13	75.0	July 20, 1937	None	N	
14	61.4	July 16, 1937	C,W	N	
15	71.9	July 24, 1937	C,W	D,S	
16	61.4 61.2	July --, 1937 July --, 1942	C,H	--	
17	--	--	C,W	P	
18	73.8	June 5, 1937	None	N	
19	--	--	T,G, 85	Irr	Casing: 224 feet of 14-inch, perforated below water level. Pump set at 140 feet. Estimated yield, 1,050 gallons a minute.
20	--	--	C,W	Irr	Drilled for irrigation well but could bail dry. Now irrigates small garden. See log.

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

d/ Water level reported.

Records of wells in Siwsher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
21	11 miles northwest	Childress School	--	--	105	--	--
22	12 $\frac{1}{2}$ miles northwest	Clarence Todd	-- Hall	1937	230	18	1.4
23	12 miles west	W. C. Cowan	do.	1937	203	18	1.0
24	11 $\frac{1}{2}$ miles west	do.	do.	1937	217	21	1.4
25	9 $\frac{1}{2}$ miles northwest	do.	E. R. Sprawls	1936	213	18	1.0
26	8 $\frac{1}{2}$ miles northwest	D. A. Nix	R. P. McDaniels	1937	214	18	--
27	do.	do.	do.	1937	175	18	--
28	7 $\frac{1}{2}$ miles northwest	H. Allison	--	--	--	18	1.4
29	7 miles northwest	do.	--	--	--	18	1.0
30	do.	do.	--	--	--	18	0.0
31	6 $\frac{1}{2}$ miles northwest	do.	Baker Pump Co.	1937	190	18	1.0
32	7 miles northwest	A. C. Julch	Green Machinery Co.	1935	240	18	1.3
33	6 miles northwest	W. C. Hulsey	Buck Price	1936	245	18	--
34	5 $\frac{1}{2}$ miles northwest	do.	do.	1936	245	18	--
35	5 miles northwest	do.	do.	1936	245	18	--
36	4 $\frac{1}{2}$ miles northwest	W. C. Cowan	Layne Pump Co.	1913	226	26	4.5
37	3 $\frac{3}{4}$ miles northwest	Mrs. M. Johnson	--	--	--	18	1.0
38	3 $\frac{1}{4}$ miles northwest	do.	--	Old	65	6	0.3
39	3 $\frac{3}{4}$ miles north	Mrs. Bona Ray	-- Gorman	1937	210	18	1.5

Well	WATER LEVEL		Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
21	--	--	C,W	P	
22	102.4	Oct. 28, 1937	T,G, 50	Irr	Pump: 3 stage 12-inch, set at 150 feet with 38 feet suction. Irrigated 130 acres wheat and feed in 1937. Drawdown reported 46 feet pumping 750 gallons a minute. Sand and gravel from 210 to 226 feet. "Red Beds" at 228 feet.
23	88.9	Oct. 27, 1937	None	N	Drilled for irrigation. Reported yield, 500 gallons a minute. Sand and gravel from 185 to 203 feet. "Red Beds" at 203
24	86.4	do.	None	N	Drilled for irrigation. Reported yield, 400 gallons a minute. "Red Beds" at 203 feet.
25	80.3	Oct. 29, 1937	T,G, 85	Irr	Pump: 2 stage, set at 120 feet. Drawdown reported, 32 feet pumping 800 gallons a minute. Irrigated 222 acres in 1943. "Red Beds" at 208
26	--	--	None	N	Drilled for irrigation. Reported yield, 400 gallons a minute. "Red Beds" at 189 feet.
27	--	--	None	N	Drilled for irrigation. Reported yield, 350 gallons a minute.
28	73.6	Oct. 28, 1937	None	N	Drilled for irrigation. "Red Beds" at 175 feet.
29	65.4	do.	None	N	Do.
30	62.3	do.	None	N	Do.
31	59.2	do.	T,G, 40	Irr	No casing. Reported yield, 600 gallons a minute.
32	75.9	do.	T,G, 40	Irr	Casing from 30 to 200 feet. Pump: 2 stage set at 120 feet. Irrigated 292 acres in 1937. Drawdown reported, 37 feet, pumping 1,200 gallons a minute for 140 hours. Sand and gravel from 177 to
33	--	--	T,G, 85	Irr	Reported yield, 850 gallons a minute. "Red Beds" at 243 feet.
34	--	--	T,G, 85	Irr	Reported yield 800 gallons a minute. Irrigated 260 acres wheat and feed in
35	--	--	T,G, 85	Irr	Irrigated 260 acres wheat and feed in 1937. Reported yield, 1,000
36	54.8 53.2	June --, 1937 Feb. 20, 1945	T,G, 100	Irr	Pump: 3-stage, set at 110 feet. Irrigated 140 acres in 1941. Drawdown reported, 35 feet pumping 1,500 gallons a minute. "Red Beds" at 226 feet. See log.
37	62.7 63.6	Sept.--, 1937 Nov. --, 1942	T,G, 85	Irr	Irrigated wheat, 550 hours pumping 850 gallons a minute.
38	55.0 55.1	Sept.--, 1937 Nov. --, 1942	C,W	D,S	Estimated yield, 5 gallons a minute.
39	54.2	Nov. 30, 1937	T,G, --	Irr	Casing: 210 feet of 14-inch steel, perforated below water level. Pump: 3-stage, set at 120 feet. Reported yield, 1,100 gallons a minute.

## Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
40	4½ miles north	A. B. Haile	W. P. Witt	1937	285	18	0.5
41	1¼ miles east	B. Youngblood	E. R. Sprawls	1937	126	18	--
42	do.	do.	do.	1937	143	18	--
43	do.	do.	do.	1936	195	18	--
44	do.	do.	do.	1936	146	18	--
45	1 mile east	J. C. Sprague	do.	1934	238	18	--
46	do.	do.	do.	1937	149	18	1.0
47	do.	do.	do.	1937	147	18	--
48	¾ mile northeast	--	--	Old	--	84	--
49	½ mile northeast	--	--	--	60	6	0.3
50	¾ mile northeast	--	--	1923	69	6	0.3
51	¼ mile north	City of Tulia City well No. 3	R. J. Stallings	1914	140	18	--
52	¾ mile west	City of Tulia City well No. 1	do.	1922	198	18	--
53	do.	City of Tulia City well No. 2	G. E. Hegin	1926	167	26	--
54	1¼ miles west	J. L. Griffith	R. J. Stallings	1911	--	--	--
55	7½ miles west	Glen Settle	Calvin Hamm	1934	157	18	1.5
56	8 miles west	do.	R. J. Stallings	1937	270	18	--
57	9½ miles west	W. T. Harcy	--	1936	200	18	0.5
58	do.	do.	--	1936	200	18	0.1



Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
40	59.3	May. --, 1943	T,G, 85	Irr	Pump: 2-stage set at 100 feet. Irrigate 167 acres truck, wheat and feed in 1937. Drawdown reported, 38 feet, pumping 900 gallons a minute. "Red Beds" at 276
41	--	--	None	N	Drilled for irrigaticn. Reported [ ] feet. yield, 300 gallons a minute.
42	--	--	None	N	Do.
43	--	--	None	N	Drilled for irrigation. Reported yield, 200 gallons a minute. "Red Beds" at
44	--	--	None	N	Drilled for irrigation. [ ] 140 feet. Reported yield 300 gallons a minute.
45	d/ 60	--	T,G, 85	Irr	Casing: 100 [ ] "Red Beds" at 146 feet. feet of 12-inch. Pump: 3-stage 10-inch set at 100 feet. Irrigated 63 acres feed and alfalfa in 1937. Reported yield, 700 gallons a minute. "Red Beds"
46	68.9	Dec. 2, 1937	T,G, 85	Irr	No casing. Pump set at [ ] at 161 feet. 84 feet. Irrigated 25 acres feed in 1937. Reported yield 700 gallons a minute. "Red Beds" at 125 feet.
47	d/ 63	--	T,G, 30	Irr	Pump: 3-stage 10-inch, set at 84 feet. Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours. "Red Beds" at 147 feet.
48	--	--	None	N	Dug 50 feet or more, drilled to bottom. Drilled for irrigation.
49	49.0	July 16, 1937	C,W	N	"
50	60.7 61.3	July 16, 1937 July 1, 1939	C,W	N	"
51	d/ 70	--	T,E, 25	P	No casing. Pump: 4-stage set at 130 feet. Reported yield, 200 gallons a
52	d/ 70	--	T,E, 40	P	No casing. Pump set at 178 feet. [ ] minute. Reported drawdown, 15 feet, pumping 500 gallons a minute for 4 hours.
53	78.5	Mar. 3, 1945	T,E, 50	P	Casinr: 150 feet of 12-inch perforated at top. Pump: 4-stage, set at 150 feet. Reported yield 515 gallons a minute.
54	--	--	None	N	Dug and drilled. Pit pump was used. Abandoned as not practical in 1912.
55	81.4	Oct. 29, 1937	T,G, 60	Irr	No casing. Pump: 4-stage set at 100 feet with 20 feet suction. Irrigated 10 acres potatces. grain and feed in 1937. Reported yield, 750 gallons a minute.
56	d/ 78	--	T,G, 30	Irr	Re- [ ] Coarse sand from 90 to 130 feet. ported yield, 250 gallons a minute. "Red
57	91.0	Sept.14, 1937	None	N	Reported yield, 300 [ ] Beds" at 258 feet. gallons a minute. "Red Beds" at 200 fee
58	90.7	dc.	None	N	"Red Beds" at 200 feet. Abandoned.

## Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
59	10 miles west	W. A. Jordan	Green Machinery Co.	1935	200	18	0.5
60	do.	do.	A. J. Moon	1938	210	16	--
61	11 $\frac{1}{2}$ miles northwest	W. C. Cowan	Trooper Hall	1943	--	--	0.9
62	do.	Julius Hanson	John Tucker	1941	240	15	--
63	14 $\frac{1}{2}$ miles northwest	John S. Plank	Bill Muncy	1938	232	16	--
64	14 miles northwest	do.	-- Ellis	1939	209	14	--
65	do.	A. M. Currie	--	1941	205	--	--
66	11 $\frac{1}{2}$ miles northwest	A. W. Fortner	John Tucker	1943	--	--	--
67	11 miles northwest	August Rahlfs	Leo Koger	1940	229	--	0.0
68	do.	D. E. Armentrout	--	1940	220+	--	--
69	8 miles northwest	Mrs. C. F. Thomas	Leo Koger	1940	221	16	1.7
70	8 $\frac{1}{2}$ miles northwest	A. C. Julch	John Tucker	1940	200	--	--
71	8 miles northwest	do.	Henry Patzig	1940	200	--	--
72	7 miles northwest	Otis Day	-- Fish	1945	241	16	0.8
73	do.	do.	--	1939	240	14	--
74	6 miles northwest	H. L. Rose	Henry Patzig	1945	161	--	--
75	5 $\frac{1}{2}$ miles northwest	do.	do.	1939	171	--	--
76	do.	do.	do.	1945	170	--	--
77	5 miles northwest	Walthal Littlepage	Earl West	1945	160	--	--

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
59	113.6	Sept. 14, 1937	T, G, 85	Irr	Irrigated 142 acres alfalfa and wheat. Reported drawdown 53 feet pumping 900 gallons a minute. Supply weakened after pumping 18 days. Water level taken 4 hours after pump shut-down. Reported water levels: 96 feet, 1935; 95 feet, 1936; 84 feet, 1945. Hit "Red Beds" at 200 feet.
60	d/ 86	--	T, G	Irr	Casing from 80 to 168 feet. Pump: 2-stage, 14-inch set at 130 feet. "Red Beds" at 168 feet.
61	90.0	Nov. 27, 1945	None	N	
62	d/ 90	--	None	N	Casing perforated below water line.
63	--	--	None	N	Casing perforated from 70 feet to bottom. Well shot crushing bottom casing. Abandoned.
64	d/108	--	T, G	Irr	Cased from water level to 170 foot level. Pump: 3-stage set at 170 feet with 20 feet of suction. Yield estimated at 500 gallons a minute in 1940.
65	d/ 96	--	T, G	Irr	Pump: 3-stage, 12-inch set at 160 feet with 20 feet suction. See log.
66	d/ 80	--	T, G	Irr	Pump: 3-stage 12-inch set at 120 feet. Drawdown 30 feet after one month pumping 1,000 gallons a minute reported in 1944.
67	100.6	Sept. 17, 1946	T, G, 95	Irr	Well not cased. Pump: 4-stage, 12-inch set at 190 feet with 30 feet of suction. Reported yield, 700 gallons a minute, drawdown 68 feet in 1940.
68	--	--	T, G, 95	Irr	
69	67.3	Sept. 7, 1940	T, G, 95	Irr	Cased 155 feet. Pump: 3-stage, set at 130 feet with 10 feet of suction. Estimated drawdown 66 feet after 9 1/2 hours, pumping 900 gallons a minute in 1940.
70	--	--	T, G	Irr	Cased from 70 to 130 feet. Pump: 3-stage, 8-inch set at 120 feet with 10 feet of suction.
71	d/ 60	--	T, G	Irr	Not cased. Pump: 3-stage, 8-inch set at 130 feet with 10 feet of suction.
72	68.15	Nov. 27, 1945	T, G	Irr	Cased 8 feet at top; rest of hole open. Pump: 3-stage 12-inch set at 120 feet with 10 feet of suction.
73	d/ 68	--	T, G	Irr	Cased 240 feet; perforated from 60 feet to bottom. Pump: 3-stage 12-inch set at 120 feet with 30 feet of suction.
74	d/ 65	--	T, G	N	Not cased. Pump: 2-stage 10-inch, set at 120 feet; will soon be lowered 10 feet more.
75	d/ 65	--	None	N	Not cased.
76	d/ 65	--	T, G	Irr	Not cased. Pump: 2-stage, 10-inch set at 120 feet.
77	d/ 60	--	T, G	Irr	Hole not cased. Pump: 3-stage, 12-inch set at 120 feet with 12 feet of suction.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well	Height of measuring point above ground (ft.) a/
78	4½ miles northwest	Walthal Littlepage	Earl West	1945	171	--	--
79	do.	H. G. Briggs	John Tucker	1944	185	--	--
80	4½ miles west	Marshall Vaughn	Dosh Stallings	1942	--	--	--
81	3 miles west	H. W. Beckman	Beckman and Drager	1945	120	14	--
82	2½ miles northwest	Robert Little	Matt Kell	1945	162	16	--
83	2 miles northwest	W. C. Dinwiddie	F. L. Witt	1940	205	14	--
84	1½ miles east	Burt Youngblood	Leo Koger	1945	180	16	0.7
85	1 mile northeast	Doyle Scuter	Dosh Stallings	1944	154	--	2.0
86	2½ miles north	C. B. Dooley	John Tucker	1940	200+	14	--
87	3½ miles northwest	Fred Cullum	--	--	180	--	--
88	do.	do.	Matt Kell	1944	165	--	1.0
89	do.	do.	do.	1944	265	--	1.1
90	6 miles northwest	R. G. Clennen	do.	1945	200+	--	3.9
91	5½ miles northwest	F. W. Carruth	--	--	--	--	--
92	6 miles northwest	Royal Crawford	John Tucker	1944	200	--	--
93	do.	do.	do.	1945	200	16	--
94	do.	J. D. Raymond	do.	1945	200	--	0.5
95	6½ miles north	L. D. Shipman	Green Machinery Co.	1944	--	16	0.3
96	5½ miles north	J. W. Byrd	John Tucker	1944	206	16	--
97	6 miles northeast	Wylie A. Byrd	do.	1944	200+	--	--
98	do.	Jeff Musick	--	1943	200+	12	--
99	7 miles north	I. C. Little	Jeff Davis	1944	203	16	--
100	7½ miles north	do.	do.	1944	210	16	--
101	10½ miles north	Dick Pair	John Clayton	1937	230	18	1.5

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
78	d/ 61	--	T,-	Irr	Hole not cased. Pump: 2-stage 12-inch set at 120 feet.
79	d/ 59	--	T,G	Irr	Pump: 3-stage, 12-inch set at 110 feet.
80	d/ 64	--	T,G	Irr	Pump: 2-stage 12-inch, set at 120 feet.
81	d/ 60	--	T,G	Irr	Pump: 3-stage 12-inch, set at 100 feet.
82	d/ 56	--	T,G, 60	Irr	Pump: 2-stage set at 120 feet with 17½ feet of suction.
83	d/ 60	--	T,G	Irr	Pump: 2-stage, 12-inch, set at 100 feet. See log.
84	74.6	Nov. 30, 1945	T,G	Irr	Pump: 3-stage set at 120 feet.
85	78.6	Dec. 11, 1945	T,Ng, 85	Irr	Hole not cased. Pump: 3-stage 12-inch set at 100 feet with 14 feet of suction. Reported drawdown 27 feet after one hour of pumping 850 gallons a minute.
86	d/ 47.0	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 12 feet of suction. Casing perforated below water level.
87	d/ 58.0	--	T,G, 85	Irr	Pump: 2-stage, 14-inch, set at 120 feet with 10 feet of suction.
88	52.8	Dec. 11, 1945	None	N	Well not cased. Pump not set.
89	53.0	do.	T,G, 85	Irr	Well not cased. Went down to yellow sand. Pump: 3-stage, 12-inch set at 120 feet with 20 feet of suction.
90	61.2	do.	T,G	Irr	Well not cased. Pump set at 140 feet.
91	--	--	T,G, 85	Irr	
92	--	--	T,G	Irr	Hole not cased. Pump: 3-stage, 12-inch set at 140 feet with 10 feet of suction.
93	--	--	--	Irr	Hole cased to 80 feet. Pump: 3-stage, 12-inch set at 150 feet with 10 feet of suction.
94	65.9	Dec. 11, 1945	T,G	Irr	Hole not cased. Pump: 3-stage, 12-inch, set at 140 feet with 10 feet of suction.
95	58.2	Dec. 3, 1945	T,G, 90	Irr	Pump: 3-stage, 12-inch, set at 140 feet.
96	--	--	T,G, 85	Irr	Casing: 160 feet, perforated below water line. Pump: 4-stage, 10-inch lowered to 130 feet.
97	d/ 50.0	--	T,G, 85	Irr	Hole not cased. Pump: 2-stage, 12-inch set at 120 feet with 15 feet of suction.
98	--	--	T,G	Irr	Pump set at 140 feet with 12 feet of suction.
99	d/ 64.0	--	T,0	Irr	Pump: 3-stage, 12-inch lowered in 1945 to 185 feet with 10 feet of suction.
100	d/ 64.0	--	T,0	Irr	Hole cased to 203 feet. Pump: 4-stage, 10-inch set at 190 feet with 12½ feet of suction.
101	70.2	Nov. 29, 1937	None	N	Casing: 188 feet of 14-inch at top, perforated below water level. Reported yield, 500 gallons a minute.

## Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Height of measuring point above ground (ft.) a/
102	10 miles north	Union Hill School	--	--	80	6	--
103	15 miles northeast	Warren Knowles	--	1937	237	18	2.0
104	do.	Salem School	--	--	80	6	--
105	16 miles northeast	Norman McAnnelly	T. W. Payne	1937	186	18	--
106	19 miles northeast	E. F. Springer	--	1937	--	18	--
107	17½ miles northeast	Vigo Park School	--	--	80	6	--
108	16½ miles northeast	J. R. Richardson	Layne Pump Co.	1914	210	26	3.3
109	15 miles northeast	E. R. Sprawls	T. W. Payne	1937	287	18	--
110	do.	do.	do.	1933	166	18	--
111	13½ miles northeast	E. G. Snodgrass	J. M. Tucker	1937	235	18	--
112	13 miles northeast	J. S. McMurry	Green Machinery Co.	1937	200	18	1.8
113	9½ miles northeast	Mrs. J. M. Tucker	G. W. Tucker	1937	210	18	2.0
113A	9 miles northeast	Valleyview School	--	--	70	6	--
114	do.	Hugh Parker	R. J. Stallings	1937	218	18	1.5
115	do.	W. W. Parker	W. D. Witt	1937	226	18	1.5
116	11 miles northeast	A. R. Stewart	J. M. Tucker	1937	200	18	--

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
102	--	--	C,W	P	
103	80.5	Aug. 13, 1938	None	N	Reported yield, 150 gallons a minute. "Red Beds" at 170 feet.
104	--	--	C,W	P	
105	81.1	Aug. 13, 1938	None	N	Weak supply. Reported could bail dry.
106	--	--	T,G, --	Irr	
107	--	--	C,W	P	
108	71.5 72.3 73.0	Apr. 20, 1934 Nov. 29, 1937 Feb. 22, 1945	T,G, 100	Irr	Irrigated 155 acres feed and wheat in 1937. Reported yield, 1,000 gallons a minute. See log.
109	71.7 72.9	Nov. 29, 1937 Aug. 13, 1938	None	N	Reported yield, 250 gallons a minute.
110	d/ 55	--	T,G, 45	Irr	No casing. Pump set at 106 feet. Irrigated 90 acres feed in 1937. Reported yield, 750 gallons a minute. Sand and gravel from 10 to 135 feet. "Red Beds"
111	75.1 75.0	Nov. 30, 1937 Aug. 13, 1938	None	N	Casing: 125 feet of 14- inch perforated, from 10 to 135 feet. Reported yield, 300 gallons a minute. "Red Beds" at 160 feet.
112	52.6 53.3	Nov. 26, 1937 May 6, 1943	T,G, 85	Irr	Casing: 20 feet of 14-inch perforated, set at bottom. Pump: 2-stage, set at 144 feet. Irrigated 80 acres feed and wheat in 1937. Drawdown reported, 25 feet pumping 700 gallons a minute.
113	58.5	May 28, 1943	T,G, --	Irr	Irrigated 90 acres feed and wheat in 1937. Reported yield, 800 gallons a minute.
113A	--	--	C,W	P	
114	57.2	Nov. 15, 1937	T,G, 60	Irr	Casing: 209 feet of 16-inch at top, perforated below water level. Pump: 3-stage, set at 120 feet. Irrigated 280 acres wheat and feed in 1937. Drawdown reported, 25 feet, pumping 900 gallons a minute. Sand and gravel from 187 to 209 feet.
115	57.4 61.5	Nov. 15, 1937 Feb. 22, 1945	T,G, --	Irr	Pump: 3-stage, set at 116 feet. Irrigated 235 acres feed and wheat in 1937. Drawdown reported 38 feet pumping 900 gallons a minute. Sand and gravel from 192 to 209 feet.
116	d/ 60	--	T,G, 85	Irr	Casing: 146 feet of 14- and 12-inch perforated from 34 to 180 feet. Pump: 2-stage, set at 96 feet. Irrigated 35 acres feed in 1937. Reported yield, 800 gallons a minute. Sand and gravel from 188 to 200 feet. "Red Beds" at 200 feet.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
117	10½ miles northeast	Mrs. W. L. Pearson	-- Harris	1937	225	18	--
118	9 miles northeast	T. L. Parker	R. J. Stallings	1937	206	18	--
119	5½ miles northeast	W. A. Byrd	--	--	--	18	1.6
120	do.	R. L. Davis	-- Allman	1937	190	18	1.0
121	do.	Joe Reeves	R. P. McDaniels	1937	142	18	--
122	7 miles northeast	J. E. Holly	do.	1937	193	18	--
123	9½ miles east	W. M. Hinton	E. R. Sprawls	1936	125	18	1.0
124	10½ miles east	W. C. Watson	Green Machinery Co.	1936	188	18	4.0
125	do.	do.	--	1930	70	6	--
126	do.	do.	--	1908	57	6	0.3
127	11 miles east	W. B. Ballard	J. M. Tucker	1937	197	18	1.7
128	11½ miles northeast	R. L. Wright	Green Machinery Co.	1937	192	18	--
129	11½ miles east	W. O. Borchardt	-- Phillips	1937	164	18	1.0
130	13½ miles east	J. N. Montgomery	Green Machinery Co.	1937	225	18	1.8
131	13 miles east	Red Hill School	--	--	55	6	--
132	do.	H. M. Miller	--	1914	260	26	--
133	9 miles east	T. H. Love	Henry Patzig	1937	201	18	1.3
134	do.	do.	do.	1937	104	18	--



Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
117	d/ 50	--	T,G, 75	Irr	Casing: Steel, 225 feet of 16 and 12-inch perforated below water level. Irrigated 80 acres feed in 1937. Reported yield 1,100 gallons a minute. "Red Beds" at 225 feet.
118	d/ 54	--	T,G, 85	Irr	Casing: 150 feet of 16-inch at top, perforated below water level. Pump: 3-stage, set at 140 feet. Reported yield, 700 gallons a minute. "Red Beds" at 203 feet.
119	50.2	May 29, 1943	T,G, 85	Irr	
120	51.4	Nov. 24, 1937	T,G, 85	Irr	No casing. Irrigated 71 acres cotton and feed in 1937. Reported yield, 1,200 gallons a minute.
121	--	--	T,G, 85	Irr	No casing. Pump: 3-stage, set at 90 feet. Irrigated 60 acres feed in 1937. Reported yield, 1,100 gallons a minute.
122	d/ 50	--	T,G, 85	Irr	No casing. Pump set at 104 feet. Irrigated 47 acres of feed in 1937. Reported yield, 800 gallons a minute.
123	48.6	Nov. 16, 1937	T,G, 65	Irr	No casing. Pump: 3-stage, set at 72 feet. Irrigated 187 acres of feed and grain in 1937. Reported yield, 1,000 gallons a minute.
124	50.9 55.5	Nov. 26, 1937 May 15, 1943	T,G, 85	Irr	Casing 120 feet of 16-inch, set at top, perforated below water level. Pump: 2-stage, set at 86 feet. Irrigated 361 acres feed, cotton, and wheat in 1937. Yield reported, 800 gallons a minute. Drilled to "Red Beds". See log.
125	d/ 49	--	C,W	D	
126	48.7	Nov. 26, 1937	C,W	S	
127	52.4 57.5	Nov. 26, 1937 Feb. 22, 1945	T,G, 85	Irr	Irrigated 100 acres feed and wheat in 1937. Yield 750 gallons a minute, reported in 1937.
128	d/ 50	--	None	N	No casing. Reported yield, 350 gallons a minute when drilled.
129	60.8	Nov. 26, 1937	None	N	No casing. Reported yield 300 gallons a minute when drilled.
130	51.5	do.	T,G, 85	Irr	Casing: 150 feet of 16-inch at top, perforated below water level. Pump: 3-stage set at 124 feet. Yield, 400 gallons a minute reported in 1937.
131	--	--	C,W	P	
132	--	--	None	N	Abandoned. See log.
133	41.4	Nov. 19, 1937	None	N	Yield 250 gallons a minute reported in 1937. "Red Beds" at 180 feet.
134	d/ 38	--	T,G, 85	Irr	No casing. Pump: 2-stage, set at 80 feet. Irrigated 110 acres feed and wheat in 1937. Yield, 1,000 gallons a minute reported in 1937.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
135	9 miles east	R. B. Bell	E. R. Sprawls	1936	100	18	--
136	8 miles east	H. H. Townsend	Henry Patzig	1937	200	8	0
137	do.	E. G. Bell	do.	1931	100	26	0
138	9½ miles east	J. A. Tucker	do.	1936	114	18	--
139	5 miles northeast	E. B. McCra	do.	1937	208	18	1.6
140	3¼ miles east	Ernest Perrin	W. D. Witt	1937	130	18	--
141	do.	S. J. Payne	E. R. Sprawls	1936	140	18	1.0
142	do.	G. A. Hall	--	1922	57	10	5.0
143	2¾ miles east	do.	W. D. Witt	1937	180	18	--
144	3½ miles southeast	V. L. Yarbrough	Leo Koger	1945	182	16	1.5
145	3¾ miles southeast	do.	Green Machinery Co.	1943	180	16	--
146	4 miles southeast	Jim Jordan	--	--	--	--	--
147	4 miles east	O. Huxford	Leo Koger	1944	175	16	--
148	4½ miles northeast	J. W. Fincher	Dosh Stallings	1942	112	14	--
149	5 miles northeast	J. W. Miller	Green Machinery Co.	1945	207	16	--
150	do.	do.	do.	1945	200	16	--
151	do.	Clarence Bauer	Dosh Stallings	1941	200	--	--
152	6 miles northeast	J. W. Miller	--	--	--	--	1.0

Well	WATER	LEVEL	Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
135	--	--	T,G, --	Irr	Irrigated 80 acres wheat and feed in 1937. Yield 750 gallons a minute, re-
136	44.8	Nov. 19, 1937	None	N	Drilled 6 feet north-ported in 1937. west of well now in use; trying to lo-
137	44.7	Nov 19, 1937	T,G,	Irr	Irrigated 90 acres cate more water. feed, wheat and cotton in 1937. Yield, 1,000 gallons a minute reported in 1937.
	42.8	May 28, 1937	85		
138	d/ 42	--	T,G, ---	Irr	Casing: 60 feet of 15-inch perforated from 40 to 100 feet. Pump: 3-stage set at 80 feet. Irrigated 128 acres feed, wheat and cotton in 1937. Yield, 900 gallons a minute reported in 1937.
139	50.3	May 29, 1943	T,G,	Irr	No casing. Pump: 3-stage set at 130 feet. Irrigated 135 acres wheat in 1937. Reported yield, 900 gallons a minute.
	53.7	Feb. 22, 1945	85		
140	d/ 56	--	T,G, --	Irr	Casing: 20 feet of 16-inch perforated set from 100 to 120 feet. Pump: 2-stage set at 80 feet. Irrigated 200 acres feed, wheat and cotton in 1937. Yield, 800 gallons a minute reported in
141	59.2	Nov. 16, 1937	T,G, 36	Irr	Casing: 40 feet of 14-inch, 1937. set from 73 to 113 feet. Pump: 2-stage, set at 72 feet. Irrigated 129 acres feed, grain, and cotton in 1937. Draw-down reported in 1937, 15 feet pumping
142	29.2	do.	C,-	N	Formerly used 650 gallons a minute. to irrigated garden; was operated by
143	d/ 45	--	T,G, 85	Irr	Casing: 80 feet set twin windmills. from 50 to 130 feet. Pump set at 140 feet. Irrigated 183 acres feed and wheat in 1937. Yield 850 gallons a
144	67.2	Nov. 30, 1945	T,G, 85	Irr	Cased 110 minute reported in 1937. feet. Perforated from 15 feet above water level to bottom. Pump: 3-stage, set at 110 feet with 36 feet suction.
145	d/ 71.0	--	T,G, 85	Irr	Casing 180 feet of 16-inch perforated below water level. Pump: 2-stage, 12-inch, set at 96 feet. See log.
146	--	--	T,G, 85	Irr	
147	d/ 70.0	--	T,G, 85	Irr	Casing: 175 feet oil field. Pump: 3-stage set at 100 feet. Reported yield
148	d/ 52.0	--	T,G, 85	Irr	Cased 750 gallons a minute in 1945. 90 feet. Pump set at 90 feet. Used to water 20 acres of alfalfa in 1945.
149	d/ 67.0	--	T,G, 85	Irr	Cased 200 feet. Pump: 3-stage set at 140 feet with 24 feet of suction. Reported good well but can pump air. See
150	d/ 60.0	--	T,G, 85	Irr	Pump: 3-stage, set at 140 feet log. with 10 feet of suction. Reported good
151	--	--	T,G, 85	Irr	Pump: 2-stage, well, but can pump air. 12-inch, set at 100 feet with 10 feet of
152	54.4	Dec. 4, 1945	None	N	Drilled for irrigation well. suction.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
153	6½ miles northeast	J. W. Miller	-- Witt	1940	200	16	--
154	do.	do.	Dosh Stallings	1944	207	16	1.0
155	10 miles northeast	E. R. Partlow	-- Starns	1945	200±	--	0.4
156	11½ miles northeast	R. B. Elliott	--	1940	--	--	--
157	12 miles northeast	T. L. Loving	John Tucker	1945	--	--	--
158	do.	R. B. Elliott	--	--	--	--	--
159	11 miles northeast	L. H. Dees	-- Henderson	1944	200	--	--
160	14 miles northeast	L. F. Montgomery	Malcolm Jones	1940	180	14	--
161	14½ miles northeast	do.	--	--	160	16	--
162	15 miles northeast	J. S. Sluder	--	--	--	--	--
163	17 miles northeast	Mrs. V. Moodie	--	--	--	--	--
164	do.	Andy Isbell	Matt Kell	1944	200	--	1.0
165	16 miles northeast	W. L. Peevehouse	Henry Patzig	1940	200	--	1.6
166	12½ miles northeast	Alan Johnson	--	--	--	16	1.5
167	13 miles northeast	do.	--	1940	--	--	1.0
168	13½ miles northeast	A. J. Harris	--	1941	202	--	--
169	14 miles northeast	Omar G. Orr	Leo Koger	1943	--	--	--
170	15 miles northeast	Travis Payne	--	--	--	--	--
171	12¼ miles northeast	First National Bank of Tulia	J. F. Davis	1944	220±	16	--
172	11 miles northeast	H. Kleen	John Tucker	1941	200	15½	--
173	10½ miles northeast	-- Weiner	-- Weiner	--	5,226	--	--
174	14 miles northeast	Jas. N. Montgomery	--	1945	--	--	--
175	10½ miles east	E. R. Duke	--	--	117	16	--
176	10 miles east	R. L. Blankenship	--	1938	--	--	1.1

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
153	d/ 54	--	T,G	Irr	Pump: 2-stage, 12-inch, set at 150 feet with 30 feet of suction. Reported yield
154	54.6	Dec. 4, 1945	T,-	Irr	Cased: 140 feet 670 gallons a minute. perforated. No motor set. Pump: 2-stage, 12-inch set at 160 feet with 24 feet of suction. Well reported to suck
155	51.4	do.	T,G	Irr	Not cased. air.
156	--	--	T,G, 85	Irr	Casing pulled in 1940 but failed to increase yield. Pump: 2-stage, 12-inch
157	--	--	T,G	Irr	set at 140 feet.
158	--	--	T,G	Irr	
159	d/ 70.0	--	T,G	Irr	Pump: 3-stage, set at 140 feet.
160	d/ 72.0	--	None	N	Cased 120 feet, from 20 foot to 140 foot levels.
161	d/ 56.0	--	None	N	Well cased 40 feet.
162	--	--	None	N	
163	--	--	None	N	
164	118.0	Nov. 28, 1945	T,G	Irr	Not cased. Pump: 3-stage, 9-inch set at 140 feet with 50 feet of suction.
165	79.4 78.1	May 6, 1943 Feb. 22, 1945	T,G, 85	Irr	Not cased. Pump: 3-stage, 12-inch set at 100 feet with 12 feet of suction. Yield, 1,000 gallons a minute estimated
166	54.5	Nov. 28, 1945	None	N	Drilled for irrigation. in 1942.
167	53.2	Feb. 22, 1945	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 140 feet with 45 feet of suction.
168	--	--	T,G, 85	Irr	Not cased. Pump: 3-stage, 12-inch set at 160 feet with 20 feet of suction.
169	--	--	T,G	Irr	Pump: 3-stage, 12-inch set at 140 feet.
170	--	--	T,G	Irr	
171	--	--	T,-	Irr	Casing: 190 feet. Pump: 3-stage, 12-inch, set at 160 feet with 10 feet of
172	d/ 50	--	T,G 85	Irr	Lower 50 feet cased. Pump: suction. 2-stage, 12-inch set at 110 feet with 20 feet of suction. Yield, reported 1,000 gallons a minute with 60 foot draw-
173	--	--	--	--	Oil test. down in 1942.
174	--	--	None	N	Drilling when visited in 1945.
175	--	--	T,-	Irr	Pump: 2-stage, 12-inch, set at 100 feet.
176	52.5	May 15, 1943	T,G 85	Irr	

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
177	10 miles east	E. N. Love	Henry Patzig	1937	125	--	--
178	9 miles east	R. C. Ketchum	do.	1943	--	--	--
179	do.	L. Gus Brown	do.	1938	104	16	0.8
180	8 miles east	E. G. Bell	do.	1938	100+	--	--
181	do.	do.	-- Starns	1945	140	--	0.4
182	8 miles northeast	Guy Smith	Dosh Stallings	1944	150	14	3.0
183	9 miles northeast	Mrs. R. W. Brannon	do.	1944	115	--	--
184	do.	W. C. Zeck	--	--	--	--	0.4
185	9½ miles northeast	Paul Irlbeck	--	1939	--	--	--
186	7 miles east	T. E. Foster	--	--	140	16	--
187	6 miles northeast	J. E. Sharp	--	--	--	--	--
188	do.	do.	--	--	--	--	--
189	5½ miles northeast	H. J. Edwards	West and Stallings	1944	120+	16	1.3
190	10½ miles northeast	Mrs. J. L. Barnes	John Tucker	1940	217	--	--
191	12 miles northeast	I. W. Nuzum	do.	1938	200	13	--
192	do.	O. W. Nuzum	do.	1938	200	12½	--
193	11 miles northeast	G. L. Bozeman	--	--	--	--	0.9
194	15 miles east	S. M. Rogers	--	-- Spring	--	--	--
201	6½ miles east	C. M. Flowers	D. L. Handley	1937	162	18	1.2
202	do.	do.	do.	1937	148	18	1.5
203	do.	do.	do.	1937	155	18	--

Well	WATER	LEVEL	Method of lift <u>b/</u>	Use of water <u>c/</u>	Remarks
	Below land surface (ft.)	Date of measurement			
177	--	--	T,G, 85	Irr	Cased 80 feet.
178	--	--	None	N	Dry hole. Owner drilled two other dry holes within a few hundred feet of this
179	48.6	Nov. 30, 1945	T,G, 85	Irr	Pump: 3-stage, 12-inch set at <span style="border: 1px solid black; padding: 0 5px;">one.</span> 90 feet with 3 feet of suction.
180	--	--	T,G, 85	Irr	Not cased; pump set at 85 feet.
181	52.5	Nov. 30, 1945	T,G, 85	Irr	Not cased. Pump: 2-stage, 12-inch, set at 95 feet with 18 feet of suction pump
182	50.3	Dec. 1 <sup>st</sup> , 1945	T,G, 85	Irr	Cased 130 feet; bottom <span style="border: 1px solid black; padding: 0 5px;">to be lowered.</span> 80 feet perforated. Pump: 2-stage, 12-inch, set at 100 feet with 10 feet of column. "Red Beds" at 150 feet.
183	<u>d/</u> 56	--	T,G, 85	Irr	Pump: 3-stage, 12-inch set at 100 feet.
184	51.0	Nov 27, 1945	T,G, 85	Irr	
185	--	--	T,G, 85	Irr	Not cased. Pump: 3-stage, 12-inch, set at 120 feet with 10 feet of suction.
186	<u>d/</u> 49	--	T,-	Irr	Pump: 3-stage, 12-inch, set at 100 feet with 21 feet of suction.
187	--	--	T,G, 85	Irr	
188	--	--	T,G	Irr	
189	51.0	Dec. 4, 1945	T,G	Irr	Pump: 3-stage, set at 120 feet with 15 feet of suction.
190	<u>d/</u> 60.0	--	T,G, 85	Irr	Not cased. Pump: 2-stage, 12-inch, set at 110 feet with 20 feet of suction.
191	--	--	T,G, 85	Irr	Cased 158 feet. Pump: 3-stage, 12-inch, set at 120 feet with 30 feet of suction. Bottom water secured at 124 feet.
192	--	--	T,G, 85	Irr	Cased 160 feet. Pump: 3-stage, 12-inch, set at 120 feet with 30 feet of suction.
193	59.9	Nov. 28, 1945	None	N	Drilled for irrigation and abandoned. Reported yield about 200 gallons a minute.
194	--	--	None	--	Spring in breaks of Tule Creek. Estimated flow 5 gallons a minute.
201	52.1	Nov. 12, 1937	T,G, 85	Irr	Casing: 126 feet of perforated 16-inch at bottom. Pump: 3-stage, set at 90 feet. Irrigated 240 acres in 1937 from 4 wells. Drawdown reported 26 feet while pumping 950 gallons a minute for
202	46.8	do.	T,G, 85	Irr	Casing: 148 feet of 16-inch. <span style="border: 1px solid black; padding: 0 5px;">6 hours.</span> perforated below water. Pump: 2-stage, set at 90 feet. Drawdown reported in 1937 63 feet while pumping 800 gallons
203	<u>d/</u> 47	--	None	N	Reported yield; 300 gallons <span style="border: 1px solid black; padding: 0 5px;">a minute.</span> a minute in 1937.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
204	6½ miles east	C. M. Flowers	D. L. Handley	1935	245	18	--
205	7 miles east	Elkins School	--	1909	48	6	0
206	9 miles east	W. J. Richardson	Green Machinery Co.	1937	116	18	--
207	9½ miles east	do.	D. L. Handley	1934	215	18	--
208	11 miles east	Love School	--	--	55	6	--
209	11½ miles east	S. E. Campbell	--	1937	140	18	1.0
210	do.	do.	--	1937	140	18	0
211	12 miles east	do.	--	1937	180	18	--
212	17½ miles southeast	Mrs. S. O. Koger	Leo Koger	1937	165	18	1.0
213	14 miles southeast	H. A. Hodges	Green Machinery Co.	1935	210	18	--
214	13½ miles southeast	R. A. Hodges	do.	1936	200	18	--
215	11½ miles southeast	H. L. Lutz	--	1937	180	18	1.2
216	11 miles southeast	L. R. Stringer	Leo Koger	1937	179	18	--
217	10 miles southeast	C. L. Gunter	B. R. Kimbell	1937	--	--	--
218	do.	do.	do.	1937	140	18	0
219	do.	do.	-- Harris	1937	245	18	1.5
220	do.	do.	B. R. Kimbell	1937	234	18	0
221	do.	do.	do.	1937	175	18	0
222	9 miles southeast	O. O. Orr	--	--	34	6	0.5
223	8½ miles southeast	I L. Burk	J. C. Cook	1931	160	18	1.5



Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
204	d/ 39	--	None	N	Reported yield, 700 gallons a minute in 1937. but failed if pumped 24 hours a day. "Red Beds" at 160 feet.
205	46.8	June 30, 1943	C,W	P	
206	d/ 36	--	T,G, 85	Irr	No casing. Pump: 2-stage, set at 84 feet. Irrigated 30 acres feed in 1937. Reported yield, 700 gallons a minute.
207	d/ 40	--	T,G, 85	Irr	No casing. Pump: 2-stage, set at 80 feet. Irrigated 250 acres of feed, wheat, and alfalfa. Yield 600 gallons a minute reported in 1937.
208	--	--	C,W	P	
209	44.1 43.5	Dec. 2, 1937 Aug. 13, 1938	T	N	Yield, 200 gallons a minute reported in 1937.
210	47	Dec. 2, 1937	None	N	Do.
211	--	--	None	N	Do.
212	61.6	Nov. 10, 1937	None	N	Yield, 500 gallons a minute reported in 1937.
213	d/ 55	--	T,G, 85	Irr	Casing: set from 50 to 160 feet. Pump: 3-stage, set at 96 feet. Irrigated 55 acres feed and wheat in 1937. Yield, 550 gallons a minute reported in 1937.
214	d/ 55	--	T,G, 85	Irr	Casing: 16- inch, set from 80 to 160 feet. Pump: 3-stage, set at 84 feet. Irrigated 50 acres of feed and cotton in 1937. Yield, 800 gallons a minute reported in 1937.
215	52.7	Nov. 10, 1937	T,G, 85	Irr	Pump set at 96 feet. Yield reported 800 gallons a minute in 1937.
216	--	--	T,G, --	Irr	No casing. Pump: 3-stage, set at 90 feet. Yield 700 gallons a minute reported in 1937.
217	--	--	None	N	Drilled for irrigation purpose.
218	33.1	Nov. 6, 1937	None	N	Drilled for irrigation, but never tested due to lack of sufficient water-bearing material.
219	35.0	do.	None	N	Irrigated 40 acres feed and alfalfa in 1937. Yield 400 gallons a minute reported in 1937.
220	36.5	dc.	None	N	Drilled for irrigation but never tested due to lack of sufficient water-bearing material.
221	36.3	dc.	None	N	Drilled for irrigation but never tested due to lack of sufficient water-bearing material. See log.
222	28.2 48.6	Nov. 6, 1937 Aug. 12, 1938	None	N	No casing at top.
223	40.1	Nov. 12, 1937	T,G, --	Irr	Irrigated 101 acres of food and grain in 1937. Yield, 1,000 gallons a minute reported in 1937.

## Records of wells in Swisher County -- Continued

Well	Distance from Tullia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
224	10 $\frac{1}{2}$ miles southeast	L. E. Keeton	--	1937	181	18	--
225	12 $\frac{1}{2}$ miles southeast	G. E. Green	--	1937	--	19	1.0
226	13 miles southeast	J. T. Browning	--	--	--	6	0.0
227	14 miles southeast	W. G. McDonald	G. E. Green	1914	204	26	3.0
228	13 $\frac{1}{2}$ miles southeast	T. J. Hudson	--	1937	175	18	1.5
229	14 miles southeast	do.	--	1937	--	18	1.5
230	13 miles southeast	Reid Bros.	W. D. Casebolt	1937	220	18	1.0
231	13 $\frac{1}{2}$ miles southeast	L. L. Armour	--	1937	--	18	1.5
232	14 miles southeast	do.	--	1937	--	18	1.5
233	14 $\frac{1}{2}$ miles southeast	do.	Louis Francis	1937	203	18	1.0
234	15 $\frac{1}{2}$ miles southeast	Andrew Price	Calvin Cook	1930	204	18	1.0
235	15 miles southeast	A. S. Hanna	-- Miller	1936	175	18	1.5
236	16 $\frac{1}{2}$ miles southeast	L. L. Armour	W. D. Casebolt	1937	232	18	0
237	do.	do.	do.	1937	258	18	1.0
238	18 miles southeast	B. R. Stark	W. D. Witt	1936	187	18	1.8
239	18 $\frac{1}{2}$ miles southeast	B. C. Stark	Louis Francis	1937	200	18	0.7
240	19 $\frac{1}{2}$ miles southeast	J. A. Glenn	W. D. Casebolt	1937	215	18	1.5
241	20 $\frac{1}{2}$ miles southeast	C. V. Wimberly	Brown and Francis	1937	--	18	--
242	20 miles southeast	J. A. Savage	Green Machinery Co.	1936	223	18	--
243	19 miles southeast	W. F. Blackerby	Blackerby Bros.	1937	230	18	0.9

Well	WATER LEVEL		Method of lift b/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
224	--	--	T,G, 85	Irr	No casing. Pump: 2-stage, set at 90 feet. Irrigated 160 acres of feed, wheat and cotton in 1937. Yield 1,000 gallons a minute reported in 1937.
225	42.7	Sept. 21, 1937	T,G, 85	Irr	
226	45.0 46.7	May 6, 1936 Mar. 5, 1940	C,-	N	
227	46	Nov. 9, 1937	T,O	N	Casing: 75 feet of 18-inch, 12 gauge pipe 129 feet screen. Not used since 1936. Yield reported in 1937, 800 gallons a minute.
228	50.2	Nov. 8, 1937	T,-	Irr	Pump: 2-stage 12-inch set at 120 feet with 10 feet suction. See log.
229	51.4	do.	T,G	Irr	
230	59.1	do.	T,G, 85	Irr	Yield, 1,000 gallons a minute, reported in 1937.
231	51.4 62.1	Nov. 8, 1937 Feb. 22, 1945	T,G	Irr	
232	51.9	Nov. 8, 1937	T,G, 85	Irr	
233	50.9	do.	T,G, 85	Irr	Casing: perforated, 75 feet to bottom. Pump: 2-stage, set at 100 feet. Yield, 1,000 gallons a minute reported in 1937.
234	60.6	Nov. 9, 1937	None	N	No casing at top. "Red beds" at 203 feet.
235	56.0	Nov. 10, 1937	T,G, 85	Irr	No casing. Pump: 2-stage, set at 110 feet. Irrigated 185 acres feed, grain, and cotton in 1937. Drawdown 7 feet pump ing 900 gallons a minute for 24 hours,
236	73	Nov. 9, 1937	None	N	Yield, 400 gallons a minute reported in 1937. Sand and gravel from 220 to 232 feet. "Red beds" at 234 feet.
237	72	do.	None	N	Casing: 80 feet of 16-inch perforated set from 48 to 128 feet. Yield reported in 1937, 700 gallons a minute. Sand and gravel from 226 to 234 feet. "Red beds" at 239 feet.
238	52.8	Nov. 8, 1937	T,G, 85	Irr	Casing: 70 feet of 16-inch perforated, set from 20 to 90 feet. Irrigated 220 acres feed and grain in 1937. Yield, 950 gallons a minute reported in 1937.
239	64.9 73.5	Nov. 8, 1937 Nov. 16, 1945	None	N	No casing. Yield, 950 gallons a minute reported in 1937.
240	70.7	Nov. 8, 1937	T,Ng, 85	Irr	No casing. Pump: 2-stage set at 110 feet. Yield, 950 gallons a minute reported in 1937.
241	--	--	T,G, 85	Irr	
242	1/80	--	T,G, 85	Irr	Casing: 223 feet, perforated. Irrigated 193 acres feed, wheat, cotton and alfalfa in 1937. Yield 700 gallons a minute, reported in 1937.
243	78.7	Nov. 14, 1945	T,O	Irr	Pump: 3-stage 12-inch, set at 140 feet. River bed sand and gravel from 175 to 200 feet.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
244	19 miles southeast	E. F. Blackerby	Green Machinery Co.	1937	242	18	--
245	19½ miles southeast	R. R. Clements	--	--	--	6	0.3
246	19 miles southeast	B. F. Foster	--	--	--	6	0.0
247	18 miles southeast	R. J. Pool	W. D. Casebolt	1937	226	18	1.8
248	17½ miles southeast	F. E. Pearson	W. E. Durham	1937	223	18	--
249	16½ miles southeast	Sam Newman	Green Machinery Co.	1936	200	18	1.0
250	do.	Andrew Price	Leo Koger	1937	207	18	--
251	17 miles southeast	F. W. Struve	Green Machinery Co.	1936	232	18	--
252	16 miles southeast	O. J. Cotton	do.	1937	220	18	--
253	15½ miles southeast	Plainview-Lockney Farms	W. D. Witt	1937	209	18	--
254	14½ miles southeast	Dr. H. H. Hicks	--	--	--	6	0.5
255	14 miles southeast	do.	W. D. Witt	1937	200	18	1.9
256	13½ miles southeast	D. M. Springer	-- Burch	1937	225	18	0.9
257	15½ miles southeast	Joe Bontke	Joe Bontke	1937	222	18	1.0
258	17 miles southeast	Mrs. A. G. Hinn	--	--	--	6	0.5
259	16½ miles southeast	Plainview-Lockney Farms	W. D. Witt	1937	214	18	1.3
260	19½ miles southeast	J. W. Carter	Green Machinery Co.	1936	222	18	--
261	21 miles southeast	J. L. Borchontt	--	Old	--	6	--

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
244	--	--	T,G, 85	Irr	Pump: 2-stage, set at 120 feet. Irrigated 88 acres feed in 1937. Yield, 750 gallons a minute reported in 1937. Sand and gravel from 175 to 200 feet.
245	64.5	May 7, 1936	C,W	D	
246	--	do.	C,W	D	
247	57.3	Nov. 9, 1937	T,G, 85	Irr	Casing: 120 feet of 12-inch perforated, set from 20 to 140 feet. Pump: 1-stage, set at 90 feet. Yield 1,000 gallons a minute reported in 1937. "Red beds" at 226 feet.
248	--	--	T,G, 85	Irr	
249	56.8	Nov. 8, 1937	T,G, 85	Irr	Casing: 200 feet of 16-inch and 12-inch, perforated below water level. Pump: 2-stage set at 90 feet. Yield, 700 gallons a minute reported in 1937. "Red beds" at 200 feet.
250	d/56	--	T,G, 50	Irr	Casing: 125 feet of 16-inch at top, perforated below water level. Pump: 3-stage, set at 110 feet. Yield, 850 gallons a minute reported in 1937.
251	d/45	--	T,O, 50	Irr	Irrigated 355 acres alfalfa, feed and cotton in 1937. Reported yield 900 gallons a minute. "Red beds" at 207 feet.
252	d/62	--	T,G, 85	Irr	Casing: 162 feet of 16-inch and 58 feet of 12-inch, perforated below water level. Pump set at 126 feet. Measured yield, 781 gallons a minute after pumping 19 days
253	58.8	Apr. 3, 1938	None	N	Reported yield, 1,600 gallons a minute in 1939.
254	36.4 40.4	May 6, 1936 Mar. 10, 1941	C,W	N	
255	41.5 46.3	May 12, 1937 Feb. 22, 1945	T,G, 85	Irr	Casing: 25 feet of 16-inch perforated, set from 70 to 95 feet.
256	49.6	Aug. 10, 1937	T,G, 85	Irr	Casing: 75 feet of 16-inch at top. Pump: 3-stage, set at 130 feet. Reported yield, 750 gallons a minute in 1937. "Red beds" at 225 feet.
257	67.0	Aug. 21, 1937	T,G, --	Irr	Casing: 84 feet of 14-inch, perforated. Pump: 3-stage set at 110 feet. Drawdown reported in 1937, 18 feet, pumping 1,200 gallons a minute for 30 minutes.
258	50.6 56.5	May 6, 1937 Feb. 22, 1945	C,W	S	
259	64.4 66.4	Aug. 7, 1939 Mar. 5, 1940	T,G, 85	Irr	Pump: 3-stage set at 120 feet. Measured drawdown 37 feet after pumping 1,700 gallons a minute for 168 hours in 1939.
260	d/50	--	T,G, 85	Irr	Casing: 222 feet of 16-and 13-inch, perforated below water level. Pump: 2-stage, set at 84 feet. Measured yield, 1,697 gallons a minute in 1939. "Red beds" at 222 feet.
261	64.9	May 2, 1936	C,-	N	

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
262	20 miles southeast	A. A. Blackerby	L. W. Francis	1939	245	16	--
263	21 miles southeast	Carl V. Wimberly	--	--	--	--	--
264	20 miles southeast	do.	--	--	--	--	0.4
265	19½ miles southeast	K. H. Sammamn	J. W. Altman	1943	240	16	0.8
266	18 miles southeast	A. A. Blackerby	-- Fisher	1945	254	--	--
267	19½ miles southeast	J. A. Glenn	J. F. Davis	1943	205	16	1.6
268	18½ miles southeast	B. C. Stark	do.	1945	196	16	1.3
269	18 miles southeast	J. S. Street	Bradford Supply Co.	1938	200	--	--
270	16 miles southeast	Ira E. Wimp	W. J. Altman	1938	193	--	--
271	17½ miles southeast	Mrs. C. A. Stark	Green Machinery Co.	--	200	--	--
272	do.	W. A. Bodeker	do.	1942	200	16	--
273	17 miles southeast	Leo W. Foster	do.	1944	208	16	--
274	18 miles southeast	Arthur Sammamn	J. W. Altman	1943	160	16	--
275	18½ miles southeast	S. A. Barrett	Green Machinery Co.	1944	224	16	--
276	do.	J. E. Moore	--	1945	--	--	--
277	16½ miles southeast	V. L. Formway	Green Machinery Co.	1938	248	16	--
278	do.	Rcy Formway	Bradford Supply Co.	1944	238	16	--
279	15½ miles southeast	Mrs. Bobby Stephens	Green Machinery Co.	1944	224	16	1.8
280	do.	do.	Bradford Supply Co.	1944	206	--	0.5
281	do.	D. C. Carter	Green Machinery Co.	1945	235	16	--
282	14 miles southeast	R. M. Francis	do.	1945	182	16	0.8
283	15½ miles southeast	E. O. Bass	do.	1940	208	16	0.8

Well	LEVEL		Method of lift	Use of water	Remarks
	WATER Below land surface (ft.)	Date of measurement			
262	--	--	T,G, --	Irr	Casing: 20 feet of 16-inch. Pump: 3-stage set at 120 feet with 10 feet of suction. Yield 1,100 gallons a minute
263	--	--	T,G	Irr	estimated in 1940. See log.
264	80.6	Nov. 14, 1945	T,G	Irr	
265	78.1	do.	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 120 feet.
266	d/64.0	--	None	N	Not cased.
267	71.7	Nov. 14, 1945	T,G	Irr	Cased 205 feet, perforated 60 feet to bottom. Originally drilled 270 feet with
268	72.7	Nov. 16, 1945	T,G, 85	Irr	Cased 128 feet with shutter perforation. Pump: 3-stage, set at 142 feet. This well replaces No. 239 from which pump was transferred to this well. See log.
269	d/54	--	T,Ng, 85	Irr	Not cased. Pump: 2-stage, set at 100 feet. Drawdown 49 feet after 9 hours pumping 725 gallons a minute on August 7, 1939. Yield reported more than 900 gallons a minute. Uses 450 cubic feet of gas per
270	--	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 100 feet with 29½ feet of suction.
271	d/64.0	--	T,G, 85	Irr	Hole not cased. Pump: 2-stage, 12-inch set at 96 feet. See log.
272	d/61.0	--	T,G, --	Irr	Casing: 190 feet of 16-inch. Pump: 2-stage, 12-inch, set at 84 feet. See log.
273	d/65.0	--	T,G, --	Irr	Pump: 1-stage, 14-inch set at 100 feet.
274	d/60.0	--	T,G, 120	Irr	Pump: 2-stage, 12-inch set at 90 feet.
275	d/61.0	--	T,G, --	Irr	Pump: 1-stage, 14-inch, set at 90 feet. See log.
276	--	--	T,G, --	Irr	
277	d/58.5	--	T,G, --	Irr	Casing: 200 feet of 16-inch, 48 feet of 12-inch. Pump: 1-stage, 14-inch set at
278	--	--	T,G, 85	Irr	95 feet.
279	82.8	Nov. 1, 1945	T,G	Irr	Casing: 164 feet of 16-inch plain, 60 feet perforated. Pump: 2-stage, 14-inch,
280	82	do.	T,G	Irr	Casing: 146 feet of 16-inch plain, 60-foot perforated. Pump: 2-stage, 12-inch set at 110 feet.
281	--	--	T,G	Irr	Pump: 3-stage, set at 160 feet.
282	60.5	Nov. 1, 1945	None	N	Pump not yet installed when visited. See log.
283	55.9	Oct. 12, 1940	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 96 feet with 35 feet of suction.

## Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
284	15 miles southeast	Geo. Buchanan	Green Machinery Co.	1944	208	16	--
285	do.	Plainview-Lockney Farms	Baker Pump Co.	1938	200±	--	--
286	13 miles southeast	F. J. Springer	--	1940	--	--	--
287	do.	D. M. Springer	--	1940	164±	16	0.2
288	12½ miles southeast	Roma Boggs	Green Machinery Co.	1945	--	--	--
289	13 miles southeast	Mrs. J. M. Dowell	Leo Koger	1940	216	--	--
290	12 miles southeast	W. B. Weatherred	Green Machinery Co.	1943	195	16	--
291	11½ miles southeast	T. E. Cobb	Leo Koger	1940	175	16	--
292	10½ miles southeast	J. M. Hill	F. L. Witt	1939	175	14	--
293	10 miles southeast	C D Rush	Green Machinery Co.	1943	180	16	--
294	do.	L. C. Keeton	--	1943	--	--	--
295	9½ miles southeast	W. C. Bowman	--	1943	200	--	--
296	8 miles southeast	C. O. Elkins	--	--	--	--	0.7
297	7½ miles southeast	Vernon Garrison	J. F. Davis	1943	135	12½	--
298	7 miles southeast	Emory Elkins	Olin Elkins	1944	--	--	0.7
299	do.	Ira Elkins	Henry Patzig	1940	101	--	1.2
300	do.	Leonard Grubb	Lec Koger	1944	198	--	--
301	¾ mile southwest	Ray Bivens	--	Old	38	6	0.2
302	1¼ miles southwest	Marshall Vaughn	Layne Pump Co.	1914	233	26	5.0
303	½ mile south	J. W. Vaughn	do.	1911	74	--	--
304	1 mile southeast	E. W. Jackson	--	1917	28	6	0.9
305	1¾ miles southeast	J. L. Cantrell	--	--	48	6	0.6
306	2 miles east	A. M. Wilson	Adams and Pritchard	--	540	--	--



Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
284	--	--	T,G, 90	Irr	Pump: 3-stage, 14-inch, set at 110 feet. See log.
285	--	--	T,G, 170	Irr	
286	--	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 140 feet with 20 feet of suction.
287	60.9	Sept. 26, 1940	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 140 feet with 10 feet of suction.
288	--	--	None	N	Drilling rig had just moved in when visited.
289	--	--	T,G, 85	Irr	Pump: 2-stage, 12-inch set at 90 feet with 20 feet of suction.
290	d/60.0	--	T,G, 85	Irr	Casing: 192 feet, perforated below water level. Pump: 3-stage, 12-inch set at 100
291	d/48.0	--	T,G, 85	Irr	Cased 126 feet from 25 feet. See log. to 151 feet. Perforated from 75 to 151 feet. Pump: 3-stage, 12-inch, set at 90
292	d/49.0	--	T,G	Irr	Casing: feet with 10 feet of suction. 145 feet of 14-inch, perforated below water level. Pump: 2-stage, 12-inch set
293	d/51.0	--	T,G, 85	Irr	Cased 180 feet, at 90 feet. See log. perforated below water level. Pump: 3-stage, 12-inch, set at 100 feet. See log.
294	--	--	T,G, 85	Irr	Pump: 4-stage, 10-inch set at 100 feet, 10 feet of suction.
295	--	--	T,G, 85	Irr	
296	49.0	Nov. 27, 1945	T,G, 85	Irr	
297	d/40.0	--	T,G	Irr	Cased: 56 feet. Pump: 3-stage, 10-inch, set at 80 feet, 10 feet of suction.
298	41.9	Nov. 30, 1945	T,G	Irr	
299	46.0 44.5	June 30, 1943 Feb. 22, 1945	T,G 85	Irr	Not cased Pump: 2-stage, 12-inch, set at 80 feet with 10 feet of suction.
300	d/50.0	--	T,G, 85	Irr	Cased 107 feet, bottom 72 feet perforated with 6 perforations per foot. Pump: 3-stage, 12-inch, set at 90 feet with 19
301	31.6 30.6	July 24, 1937 July 25, 1941	C,W	N	feet of suction.
302	61.9 63.3	Nov. 17, 1937 Nov. 5, 1942	T,O, 80	Irr	Pump: 3-stage, 24-inch set at 120 feet. Irrigated 97 acres in 1937. Yield, 950 gallons a minute, reported in 1937. See
303	--	--	Cf,-, --	N	Abandoned and caved in. log.
304	15.6	Aug. 10, 1937	C,W	S	
305	37.0 38.9	Aug. 10, 1937 Feb. 22, 1945	C,W	S	
306	--	--	--	--	Oil test.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
307	4 miles southeast	Stanley Vars	Green Machinery Co.	1937	173	18	--
308	do.	E. R. Sprawls	E. R. Sprawls	1936	176	18	--
309	do.	W. F. Wall	Green Machinery Co.	1937	172	18	--
310	4½ miles southeast	Mrs. H. D. Wilkins	do.	1935	172	18	--
311	5½ miles southeast	S. H. Braly	do.	1937	162	18	--
312	5 miles southeast	D. H. Elliff	E. R. Sprawls	1936	175	18	--
313	do.	do.	do.	1936	114	18	--
314	5½ miles southeast	E. R. Duke	Green Machinery Co.	1936	175	18	--
315	6½ miles southeast	F. J. Vannerson	-- Van Arsdal	1914	205	28	2.5
316	7 miles southeast	Mrs. Wm. Hearne	Leo Koger	1937	200	18	--
317	7½ miles southeast	A. B. Martin	John Tye	1935	222	18	1.0
318	8 miles southeast	do.	do.	1936	222	18	1.3
319	6½ miles southeast	J. J. Nash	Green Machinery Co.	1937	200	18	--

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
307	d/48	--	T,G, 85	Irr	Casing: 132 feet of perforated 16-inch on bottom. Pump: single stage set at 84 feet. Irrigated 143 acres of feed and wheat in 1937. Yield 1,000 gallons a minute reported in 1937.
308	d/51	--	T,G, --	Irr	Pump: set at 72 feet. Irrigated 180 acres of feed, wheat, and alfalfa in 1937. Yield, 1,500 gallons a minute reported in 1937.
309	d/60	--	T,G, 85	Irr	Casing: 152 feet of 16-inch at top, perforated below water line. Pump: 2-stage, set at 96 feet. Irrigated 220 acres in 1937. Yield, 900 gallons a minute reported in 1937.
310	d/60	--	T,G, 85	Irr	Casing: 150 feet of perforated 16 and 12-inch at bottom. Pump 2-stage, set at 84 feet. Irrigated 215 acres in 1937. Yield, 850 gallons a minute reported in 1937.
311	d/50	--	T,G, 85	Irr	Casing: 142 feet of perforated 16 and 12-inch at bottom. Pump: 2-stage, set at 84 feet. Irrigated 287 acres in 1937. Yield, 800 gallons a minute in 1937. "Red beds"
312	--	--	T,G, 85	Irr	Pump: set at 84 feet. Irrigated 160 acres of feed and wheat in 1937. Yield, 700 gallons a minute reported at 158 feet.
313	58.2	Nov. 12, 1937	None	N	Used summer of 1936 for irrigation. Tried to drill deeper, lost tools and abandoned
314	d/50	--	T,G, 40	Irr	Casing: 140 feet of 16-inch. Pump: set at 96 feet. Irrigated 139 acres in 1937. Yield, 800 gallons a minute reported in 1937. Sand from 163 to 175 feet.
315	52.6	Nov. 6, 1937	T,O, 60	N	Casing: 205 feet of 28-inch. Pump: 3-stage 24-inch, set at 75 feet. Yield, 1,200 gallons a minute. Water level was measured as 48 feet and 4-inches below casing, which is 6-inches above surface by owner in 1914. Not used in 29 years. See log.
316	--	--	T,G, 85	Irr	Casing: 200 feet of 14-inch, 150 feet perforated. Pump: 2-stage, 12-inch, set at 90 feet with 20 feet of suction pipe.
317	56.4	Nov. 12, 1937	T,G, 85	Irr	Casing: 100 feet of perforated 16-inch from 40 to 140 feet. Pump: 2-stage, set at 84 feet. Irrigated 530 acres in 1937 from 2 wells. Yield, 900 gallons a minute for 24 hours with 28 foot drawdown, reported in 1937.
318	57.8	do.	T,G, 85	Irr	Casing: 100 feet of perforated 16-inch from 40 to 140 feet. Pump: 3-stage set at 84 feet. Yield, 755 gallons a minute measured in 1937.
319	d/319	--	T,G, 85	Irr	Pump: 2-stage set at 84 feet with 26 feet of suction. Yield 1,000 gallons a minute reported in 1937.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
320	7 miles south	Jno. R. Barnhart	Green Machinery Co.	1937	200	18	--
321	do.	Mrs. H. W. Harrell	do.	1937	220	18	2.0
322	do.	do.	do.	1937	216	18	1.2
323	6 $\frac{1}{2}$ miles south	Curt Glenn	--	--	76	6	0.4
324	do.	Houston School	--	Old	70	6	--
325	6 miles south	H. L. Bartlett	--	--	39	6	.6
326	5 $\frac{1}{2}$ miles south	Mrs. F. M. Hillard	F. L. Moore	1937	221	18	--
327	do.	W. H. Lowe	Green Machinery Co.	1937	240	18	--
328	4 miles south	Irvin McCune	Baker and Keagan	1929	200	--	--
328A	3 $\frac{1}{4}$ miles south	A. E. Woodard	Baker and Woodruff	--	1,285	--	--
329	3 miles southwest	Porter Davis	--	--	--	--	--
330	3 $\frac{1}{4}$ miles southwest	do.	--	1937	196	18	--
331	7 miles south	T. E. Duke	W. D. Witt	1937	208	18	--
332	7 $\frac{1}{2}$ miles south	W. F. Kerr	W. F. Kerr	1937	209	18	1.2
333	8 $\frac{1}{2}$ miles south	W. A. Snell	Baker Pump Co.	1937	--	18	1.3
333A	9 miles south	J. W. Dines	G. E. Green	1913	195	22	--
334	10 $\frac{1}{2}$ miles south	H. Sands	D. L. Handley	1937	241	18	1.6

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
320	--	--	T,G, 85	Irr	Casing: 200 feet of 16-inch, perforated below water line. Pump: 3-stage, set at 96 feet. Irrigated 232 acres in 1939. Yield, 800 gallons a minute reported in
321	66.9	Nov. 4, 1937	T,-, 85	Irr	Casing: 220 feet of 16 and 12- 1937. inch, perforated below water line. Pump: 3-stage, set at 120 feet. Yield, 750 gallons a minute reported in 1937.
322	70.0	Aug. 10, 1937	T,-, 85	Irr	Casing: 216 feet of 18, 16 and 12-inch, perforated below water line. Pump: 3-stage, set at 96 feet. Irrigated 326 acres wheat and feed in 1937. Yield, 900 gallons a minute reported in 1937.
323	62.8 63.4 68.6	June 5, 1937 Jan. 10, 1938 Feb. 20, 1945	C,W	S	
324	--	--	C,W	P	Located near creek.
325	31.8	July 26, 1937	C,W	D,S	Do.
326	d/61	--	T,G, 85	Irr	Casing: 80 feet of 16-inch, 64 feet plain, and 16 feet perforated. Pump: 2-stage, set at 100 feet. Yield, 1,000 gallons a minute for 1 hour reported in
327	d/60	--	T,G, 50	Irr	Casing: 240 feet of 16 and 12- 1937. inch, perforated below water level. Pump: single stage, set at 96 feet. Yield 1,000 gallons a minute in 1937. "Red beds" at
328	--	--	--	--	Oil test. 240 feet.
328a	--	--	--	--	Do.
329	--	--	T,G, 85	Irr	
330	--	--	T,G, 85	Irr	Irrigated 40 acres of feed in 1937. Yield, 850 gallons a minute in 1937.
331	--	--	T,G, 85	Irr	Casing: 80 feet of 16-inch at top. Pump: 2-stage, set at 110 feet. Yield 900 gal-
332	63.6 59.5 65.7	June 5, 1937 Jan. 10, 1938 Feb. 20, 1945	T,G, 45	Irr	Casing: 172 feet of perforated 15-inch at top. Pump: 3-stage, set at 95 feet. Yield, 1,300 gallons a minute reported in 1937 by W. F. Kerr. "Red beds" at 201 feet.
333	79.3	Dec. 8, 1945	T,G, 85	Irr	
333a	--	--	Ncnc	N	Casing: 46 feet of 22-inch, 46 feet of 20-inch, perforated; 92 feet of 12-inch perforated; bottom 11 feet uncased. Abandoned. Yield, reported 600 gallons a
334	79.4	Sept. 24, 1937	T,G, 85	Irr	Casing: 240 feet of 16- minute. See log. inch and 14-inch at top, perforated below water level. Yield, 850 gallons a minute in 1937. See log.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
335	10½ miles south	A. W. Sorrelle, Jr.	--	--	--	6	0.5
336	10 miles south	do.	--	--	--	6	.5
337	8 miles south	J. R. Barnhart	--	--	90	6	3.4
338	do.	W. N. Crawford	Green Machinery Co.	1937	190	18	1.0
339	8½ miles south	do.	--	--	--	7	.5
340	8 miles southeast	R. L. Edmonson	Green Machinery Co.	1937	180	18	--
341	9½ miles southeast	J. A. Ellis	--	1933	--	18	1.5
342	10 miles southeast	W. T. Watson	C. A. Mullins	1937	221	18	1.0
343	do.	do.	do.	1937	225	18	1.2
344	9½ miles south	S. J. Woodruff	J. C. Cook	1936	195	18	1.2
345	10 miles south	P. G. Wimberly	--	1914	236	60	.5
346	11 miles south	J. L. Hunter	W. C. Cowan	1937	148	18	--
347	12 miles south	A. S. Jackson	W. D. Witt	1937	197	18	0
348	12½ miles south	Mrs. Margaret Spencer	--	--	--	6	3.5
349	11½ miles south	Ray Lane	Green Machinery Co.	1937	191	18	1.0
350	10½ miles south	C. S. Walker	-- Casebolt	1937	202	18	1.3
351	11 miles south	D. M. Springer	J. C. Cook	1933	190	18	--
352	11½ miles south	John Elliot	--	--	--	6	0.3
353	do.	Kress High School	--	--	65	6	--
354	12 miles south	Mrs. J. W. Skipworth	--	--	--	--	0.4

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
335	60.4	May 14, 1936	None	N	
336	50.7	July 15, 1937	C,H	N	
337	52.9	May 14, 1937	C,W	D,S	Estimated yield, 3 gallons a minute.
338	59.1	Nov. 3, 1937	T,G, 85	Irr	Casing: 60 feet of 16-inch at top. Yield, 900 gallons a minute estimated in 1937.
339	46.5	May 14, 1937	C,-	N	
340	--	--	T,G, 85	Irr	Casing: 60 feet of 16-inch at top. Yield, 900 gallons a minute in 1937.
341	54.8	Nov. 3, 1937	T,O, --	Irr	
342	46.8	do.	None	N	Yield, 250 gallons a minute reported in 1937. "Red beds" at 189 feet.
343	45.5	do.	T,G, 85	N	No casing. Pump set at 110 feet. Yield, 250 gallons a minute in 1937. "Red beds"
344	49.4	Nov. 1, 1937	T,G, 60	Irr	Casing: 60 feet of per- forated, from 135 to 195 feet. Pump set at 80 feet. Yield, 728 gallons a minute
345	50	do.	T,G, --	Irr	Casing: 26-inch set from 45 feet down. Pump: set at 75 feet. Yield, 500 gallons a minute reported in
346	--	--	T,G, 50	Irr	Casing: 73 feet of 18-inch at top. Pump: 2-stage, set at 100 feet. Yield, 900 gallons a minute re-
347	93.6	Nov. 16, 1939	T,G, 85	Irr	Casing: 20 feet of per- forated 16-inch, from 80 to 100 feet. Pump: set at 100 feet. Yield, 900 gallons
348	60	May 12, 1936	C,W	D	a minute reported in 1937.
349	57.9	Nov. 4, 1937	T,G, 85	Irr	Casing: 191 feet of 16 and 14-inch per- forated below water level. Pump: 2-stage 12-inch, set at 96 feet. Yield, 900 gal-
350	62.7 75.0	Nov. 1, 1937 Sept. 26, 1940	T,G, 85	Irr	Casing: 204 feet of 16 and 14-inch perforated below water level. Pump: 2-stage 12-inch set at 100 feet. Yield, 800 gallons a minute reported in 1937. Blue clay at
351	d/60	--	T,G, --	Irr	Casing: 100 feet of perforated 14-inch, set from 40 to 140 feet. Pump: 2-stage, set at 80 feet. Yield, 700 gal- lons a minute reported in 1937. "Red beds"
352	59.1 61.1	May 7, 1936 Jan. 27, 1943	None	N	at 190 feet.
353	--	--	C,W	P	
354	61.2 61.8 63.8	May 12, 1936 Jan. 1, 1938 Feb. 20, 1945	C	N	Was irrigation well with pump jack and 4-inch water pipe.

## Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
355	11 $\frac{1}{2}$ miles south	B. S. Livingston	J. C. Cook	1934	204	18	--
356	do.	Henry Evans	D. L. Handley	1937	--	18	--
357	12 miles south	P. H. Smith	Green Machinery Co.	1937	202	18	--
358	12 $\frac{1}{2}$ miles south	Mead Griffin	--	--	--	6	0.4
359	do.	E. E. Formway	Green Machinery Co.	1937	220	18	2.0
360	13 miles south	W. D. McClasson	--	--	89	6	0.0
361	14 $\frac{1}{2}$ miles south	L. Kennedy	-- Barton	1937	202	18	.5
362	14 miles south	G. D. Hughes	--	--	--	6	4.2
363	15 miles south	W. H. Rollow	--	--	--	6	0.0
364	13 $\frac{1}{2}$ miles south	G. W. Robertson	--	--	--	10	.5
365	14 miles south	do.	--	--	--	6	.5
366	14 $\frac{1}{2}$ miles south	L. J. Knuckles	O. W. Barnett	1937	268	18	1.3
367	do.	do.	do.	1937	295	18	4.7
368	do.	Texas Land and Development Co.	--	1930	212	26	0.0
369	do.	do.	--	1916	212	26	1.5
370	do.	do.	--	1914	348	26	1.0
371	15 miles south	do.	--	1917	242	26	.4
372	do.	do.	--	1916	212	26	1.5
373	14 miles south	T. J. Reth	--	--	--	--	0
374	do.	Patsy Locasio	Baker Pump Co.	1937	200	18	--
375	13 miles south	Texas Land and Development Co.	--	Old	--	26	0
376	12 $\frac{1}{2}$ miles south	H. F. Artell	-- Fox	1937	400	18	1.3



Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
355	d/62	--	T,G, 85	Irr	Casing: 92 feet of 16-inch. Yield, 700 gallons a minute reported in 1937. "Red
356	--	--	T,G, 85	Irr	Yield, 800 gallons a minute in 1937. beds" at 200 feet.
357	--	--	T,G, 85	Irr	Pump set at 120 feet.
358	74.1 75.1	May 12, 1936 Apr. 9, 1938	C,-	N	
359	73.7 77.5	Dec. 1, 1937 Feb. 20, 1945	T,G, 85	Irr	Pump: 2-stage set at 108 feet. Yield, 850 gallons a minute, estimated during pumping test in 1937.
360	74	May 12, 1936	C,W	D	
361	72.5	Sept. 24, 1937	T,G, --	Irr	Casing: 194 feet of 17 and 13-inch, perforated below 70 feet. Pump: 2-stage set at 108 feet. Yield, 800 gallons a minute reported in 1937.
362	65.8 67.7	May 12, 1936 Mar. 10, 1941	--	N	
363	58.7	May 1, 1936	C,W	N	
364	73.4	May 12, 1936	None	N	Drilled for irrigation and abandoned.
365	68.9	dc.	C,W	D	
366	69.1	Sept. 15, 1937	T,G, --	Irr	Casing: 248 feet of 12-inch at top, perforated below water level. Yield, 800 gallons a minute, reported in 1937.
367	81.7	Apr. 29, 1938	T,G, --	Irr	Casing: 295 feet of 14-inch, perforated below water line. Yield, 1,200 gallons a minute reported in 1937.
368	74 74.1 81.0	May 4, 1936 Jan. 5, 1938 Feb. 2, 1945	T,G, --	Irr	
369	72.6 75.0	May 4, 1936 June 27, 1938	T,O, 60	Irr	Drawdown, 21 feet, pumping 907 gallons a minute in 1936.
370	71.6 72.3 80.0	May 4, 1936 Jan. 10, 1938 Feb. 20, 1945	T,O, --	Irr	Casing: 100 feet of 12½ and 10-inch screen. Pump: 2-stage 22-inch, set at 90 feet. See log.
371	66.9	May 7, 1936	T,G, 60	Irr	Yield, 1,100 gallons a minute reported in 1937.
372	62.1 63.9	May 7, 1936 Nov. 3, 1937	T,G, 60	Irr	Measured drawdown, 23.2 feet on September 30, 1940 after pumping 500 gallons a minute for 14 hours.
373	71.8	May 6, 1936	None	N	
374	d/72	--	T,G, 85	Irr	Casing: 16-inch perforated, set from 50 to 100 feet. Pump: 2-stage, set at 120 feet with 53 feet of suction. Yield, 950 gallons a minute in 1937.
375	58.4	May 7, 1936	None	N	
376	68.6	Nov. 3, 1937	T,G, 85	Irr	Casing: 72 feet of 15-inch. Pump, 3-stage, set at 130 feet. Measured drawdown 27.6 feet pumping 857 gallons a minute for 6 hours in 1938. See log.

## Records of wells in Swisher County--Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
377	13 miles south	G. J. Clements	--	--	92	6	0
378	13½ miles south	Jim Davis	--	1937	--	--	--
379	14 miles south	Joe Bontke	Joe Bontke	1937	222	18	--
380	14½ miles south	do.	--	--	--	6	.3
381	15 miles south	do.	J. C. Cook	--	--	18	1.6
382	14½ miles south	J. B. Holland	--	--	--	6	0.0
383	15½ miles south	Texas Land and Development Co.	--	1916	208	26	1.5
384	do.	do.	--	1915	165	26	1.5
385	do.	do.	Texas Land and Development Co.	1916	250	26	3.5
386	do.	do.	--	1917	204	26	3.5
387	15½ miles southeast	A. G. Williamson	Green Machinery Co.	1945	190	16	0.8
388	15 miles southeast	Joe Bontke, Jr.	Joe Bontke, Jr.	1942	212	16	--
389	15½ miles southeast	do.	do.	--	--	16	--
390	14½ miles	J. B. Holland	J. B. Holland	1944	214	14	--
391	15 miles southeast	M. C. McGrede	--	--	220	--	1.2
392	do.	C. M. Light	Carl Mangum	1941	207	16	--
393	14 miles southeast	M. C. McGrede	--	1944	220	--	--
394	do.	T. J. Roth	--	1945	210	--	1.0
395	14 miles south	E. C. Pyle	Green Machinery Co.	1941	205	16	--
396	do.	J. D. Williams	--	1944	180	16	--
397	do.	S. L. Maples	Jan Pate	1940	281	16	--
398	15 miles south	Mrs. J. W. Ray	Green Machinery Co.	1941	266	16	--
399	do.	James R. Drake	do.	1945	208	16	--
400	14½ miles south	W. H. Rollow	--	--	--	--	--

Well	WATER	LEVEL	Method of lift <u>b'</u>	Use of water <u>c'</u>	Remarks
	Below land surface (ft.)	Date of measurement			
377	74	May 6, 1936	C,W	S	
378	--	--	T,G, 85	Irr	
379	<u>d/61</u>	--	T,G, --	Irr	Casing: perforated, 14-inch from 50 to 134 feet. Yield, 700 gallons a minute reported in 1937.
380	54.2 56.1	Mar. 12, 1938 Feb. 22, 1945	C,W	S	
381	63.2	May 6, 1936	None	N	Drilled for irrigation. Yield, 350 gallons a minute reported in 1937.
382	66	do.	C,W	D	
383	70.7 72.8 76.3	Apr. 18, 1934 Mar. 17, 1937 Feb. 22, 1945	T,G, 60	Irr	Irrigated 50 acres feed and cotton in 1937.
384	60.1	Apr. 18, 1934	None	N	
385	68.1 71.9	May 4, 1936 Mar. 10, 1941	T,-	N	Reported good well, but not used.
386	67.3	Sept. 21, 1937	T,G, --	Irr	Yield, 1,000 gallons a minute reported in 1937.
387	73.7	Nov. 1, 1945	None	N	Casing: 190 feet of 16-inch, all perforated. Pump not yet installed when visited.
388	--	--	T,G	Irr	Casing: 150 feet of 16-inch. See log. Pump: 3-stage, set at 120 feet.
389	--	--	None	N	Being drilled. Was about 65 feet deep when visited.
390	<u>d/75.0</u>	--	T,G, 85	Irr	Casing: 170 feet, lower 70+ feet perforated. Pump: 2-stage, 12-inch set at 120 feet with 10 feet of suction.
391	85.4	Nov. 1, 1945	T,G	Irr	
392	<u>d/50</u>	--	T,G, 85	Irr	Cased 140 feet, perforated below water level. Pump: 2-stage, 12-inch set at 100 feet. See log.
393	--	--	T,-	Irr	
394	79.7	Nov. 1, 1945	T,G, 85	Irr	
395	<u>d/74.0</u>	--	T,G, 95	Irr	Casing: 205 feet of 16-inch, lower 160 feet perforated. Pump: 1-stage, 14-inch, set at 108 feet. Red beds at 205 feet.
396	<u>d/80.0</u>	--	T,G, 85	Irr	Pump: 2-stage, 14-inch, set at 120 feet with 8 feet of suction. See log.
397	<u>d/69.0</u>	--	T,G, 85	Irr	Casing: 281 feet of 16 and 13-inch. Pump: 2-stage, 12-inch set at 120 feet with 20 feet of suction. See log.
398	<u>d/71.0</u>	--	T,G, 85	Irr	Pump: 1-stage, 14-inch set at 108 feet. See log.
399	--	--	T,G, --	Irr	Pump: 3-stage, 12-inch set at 110 feet with 12 feet of suction.
400	--	--	T,G, 85	Irr	

Records of wells in Swisher County -- Continued

Well	Distance from Tullia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a'
401	12 $\frac{1}{8}$ miles west	L. E. Lyon	--	1933	110	6	0.6
402	9 miles west	Lakeview School	--	--	100	6	--
403	8 miles west	C. W. Newsom	--	Old	100	6	3.7
404	do.	Louis Redmon	W. C. Cowan	1937	242	18	1.8
405	3 $\frac{1}{2}$ miles southwest	A. A. Vaughn	R. J. Stallings	1937	190	26	--
406	8 $\frac{1}{2}$ miles southwest	McGuire School	--	--	100	6	--
407	7 $\frac{1}{2}$ miles southwest	F. M. Johnson	Bill Muney	1937	229	18	2.0
408	7 miles southwest	J. A. Ellis	Green Machinery Co.	1937	202	18	1.0
409	8 miles southwest	Ross Wings	-- Bartlett	1936	190	18	--
410	9 $\frac{1}{2}$ miles south	E. E. Cox	Green Machinery Co.	1936	167	18	1.0
411	10 miles south	Will Rassen	do.	1937	200	18	1.0
412	10 miles southwest	H. L. Adkins	do.	1936	200	18	1.0
413	do.	C. B. Jones	-- Tye	1936	190	18	--

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
401	94.6	Sept. 14, 1937	C, W	N	
	94.5	Mar. 20, 1940			
402	--	--	C, W	P	
403	77.6	Sept. 14, 1937	C, H	N	
404	103.3	Oct. 27, 1937	T, G, 85	Irr	Casing: 130 feet of 14-inch set at top, perforated below water level. Pump: 3-stage, set at 130 feet. Yield, 850 gallons a minute reported in 1937. "Red
	103.7	May 31, 1943			
405	d/68	--	T, G, 45	Irr	Casing: 110 feet of "beds" at 242 feet. 20-inch, set at top, perforated below water level. Pump: 3-stage, 12-inch, set at 120 feet. Yield 850 gallons a minute reported in 1937. Sand and gravel from
406	--	--	C, W	P	165 to 190 feet.
407	100	Feb. 20, 1945	T, G, 85	Irr	Casing: 229 feet of 14-inch, perforated below water level. Irrigated 262 acres feed, wheat and truck in 1939. Drawdown reported in 1937, 39 feet, pumping 900
408	86.9	Sept. 24, 1937	T, G, 85	Irr	Casing: 202 feet of "gallons a minute. 16, 14, and 12-inch, perforated below water line. Irrigated 75 acres feed in 1937. Yield, 750 gallons a minute, esti-
409	d/70	--	T, G, 85	Irr	Casing: 190 feet of 16- "mated in 1937. inch, perforated below water level. Irrigated 290 acres feed and wheat in 1937. Yield, 800 gallons a minute, reported in
410	92.7	Sept. 23, 1937	T, G, 85	Irr	Casing: 132 feet of 16-inch, 28 "1937. feet of 14-inch. Pump set at 114 feet. Irrigated 525 acres feed and wheat in 1939. Drawdown reported in 1937, 24 feet pumping 800 gallons a minute for 3 weeks.
411	88.7	do.	T, G, 85	Irr	Casing: 150 feet of 16 and 12-inch perforated, set at bottom. Pump: 2-stage set at 112 feet. Irrigated 190 acres feed and wheat in 1937. Yield, 900 gal-
412	97.5	Sept. 24, 1937	T, G, 85	Irr	Casing: "lons a minute reported in 1937. 18, 16, and 14-inch perforated, set from 30 to 200 feet. Pump: 2-stage, set at 120 feet. Irrigated 365 acres feed, grain, and cotton in 1937. Drawdown reported in 1937, 16 feet, pumping 800 gal-
413	d/88	--	T, G, 85	Irr	Casing: 190 feet of 16- "lons a minute. and 12-inch, perforated below 91 feet. Pump set at 120 feet. Irrigated 280 acres wheat, cotton, and corn in 1937. Drawdown reported in 1937, 28 feet, pumping 800 gallons a minute.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
414	10½ miles southwest	M. C. Vinyard	Green Machinery Co.	1937	200	18	1.0
415	12 miles southwest	Fred Graham	F. Lord	1937	309	18	--
416	12½ miles southwest	O. P. Bowser	--	1934	200?	18	--
417	13½ miles southwest	Grady Rousser	Green Machinery Co.	1936	210	18	--
418	15 miles southwest	O. Milner	--	1937	210	26	1.0
419	13½ miles southwest	N. D. Goldsmith	Green Machinery Co.	1937	200	18	1.5
420	17½ miles southwest	W. M. Stalcup	G. Gorman	1937	228	18	2.0
421	19½ miles southwest	A. W. Ferryman	-- Sawyer	1937	240	20	0.7
422	16 miles southwest	G. E. Curry	-- Bartlett	1937	204	18	2.0
423	17 miles southwest	C. R. Silverthorn	Baker Pump Co.	1937	260	18	1.2
424	16 miles southwest	A. McDaniel	Green Machinery Co.	1937	202	18	2.0
425	17 miles southwest	E E Degge	J. C. Cook	1936	293	18	1.2
426	do.	J. P. Qualls	do.	1935	275	18	0.7
427	14 miles southwest	M. A. Patton	--	Old	104	6	3.0
428	13 miles southwest	Texas Land and Development Co.	--	--	--	6	0.3

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
414	97.1	Sept. 23, 1937	T,G, 85	Irr	Casing: 194 feet of 15-inch, perforated below water level. Pump: 3-stage, set at 120 feet. Yield, 775 gallons a minute,
415	d/96	--	T,G, 85	Irr	Pump: 3-stage, set estimated in 1937. at 140 feet. Irrigated 300 acres feed, wheat, and beans in 1937. Drawdown 35.5 feet pumping 900 gallons a minute, re-
416	--	--	T,G, --	Irr	Irrigated 170 acres reported in 1937. feed and barley in 1937. Yield 900 gal-
417	d/95	--	T,G, 50	Irr	Casing: lons a minute reported in 1937. 144 feet of 16 and 14-inch, at top, perforated below water level. Irrigated 173 acres in 1937. Yield, 1,200 gallons a
418	74.7	Oct. 6, 1937	T,G, 85	Irr	Irrigated minute reported in 1937. 180 acres feed in 1937. Yield, 1,000 gallons a minute reported in 1937.
419	109.0	Oct. 27, 1937	T,G, 100	Irr	Casing: 200 feet of 16 and 14-inch, perforated below water level. Pump: 3-stage, set at 140 feet. Irrigated 240 acres feed in 1937. Yield, 1,200 gallons a
420	67.5	Oct 6, 1937	T,G, 32	Irr	Casing: 200 minute, reported in 1937. feet of 16-inch at top, perforated below water level. Pump: 2-stage set at 80 feet. Yield, 1,000 gallons a minute, re-
421	61.2 61.3	Jan. 4, 1939 Feb. 20, 1945	T,G, 50	Irr	Casing: 230 feet of reported in 1937. 20-inch at top, perforated below water level. Pump set at 100 feet. Irrigated 115 acres in 1942. Yield, 1,125 gallons
422	68.3	Oct. 6, 1937	T,G, 85	Irr	Casing: a minute measured in 1942. 204 feet of 16 and 14-inch, perforated below water level. Pump set at 90 feet. Irrigated 245 acres feed, wheat and cotton in 1937. Yield, 1,000 gallons a min-
423	64.6	Oct. 7, 1937	T,G, 85	Irr	Irrigated 230 ute, reported in 1937. acres feed and wheat in 1937. Yield, 1,000 gallons a minute, reported in 1937.
424	69.7	dc.	T,G, 85	Irr	Casing: 202 feet of 16 and 14-inch, perforated below water level. Pump: 2-stage, set at 108 feet. Irrigated 80 acres in 1937. Yield, 900 gallons a min-
425	69	do.	T,G, 85	Irr	Casing: 15 and ute, reported in 1937. 12-inch perforated, set from 45 to 210 feet. Pump: 2-stage, set at 90 feet. Irrigated 186 acres in 1937. Yield, 900 gallons a minute reported in 1937.
426	61.8	dc.	T,G, --	Irr	Casing: 100 feet of 16-inch at top, perforated below water level. Pump set at 80 feet. Irrigated 243 acres feed and wheat in 1937. Yield, 900 gallons a min-
427	82.8 84.1	July 17, 1937 July 9, 1940	C,W	S	ute, reported in 1937.
428	87.7	May 12, 1937	None	N	

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
429	13 miles south	C. Reed	Green Machinery Co.	1937	198	18	3.5
430	do.	do.	--	Old	90	6	0.4
431	9½ miles south	R. P. Reed	Green Machinery Co.	1937	208	18	1.0
432	9 miles southwest	do.	--	1945	207	16	--
433	9½ miles southwest	E. E. Cox	Green Machinery Co.	1940	265	16	--
434	10 miles southwest	L. E. Vineyard	M. A. Patten	1938	216	14	--
435	do.	Virgil L. Hill	Green Machinery Co.	1943	210	16	--
436	do.	Cecil Rousser	do.	1944	200	16	--
437	do.	H. L. Adkins	--	--	--	--	1.1
438	11 miles southwest	Geo. Rousser	-- Bogel	1945	216	14	--
439	12 miles southwest	Fred Graham	--	--	--	--	--
440	11 miles southwest	-- Hill	Louis Francis	1937	230	--	--
441	11½ miles southwest	O. V. Wilson	Green Machinery Co.	1944	192	16	--
442	12 miles southwest	Peter Barbian	do.	1944	200	16	--
443	do.	R. A. Vineyard	Taylor and Gibbons	1943	200	16	--
444	do.	Fred Graham	Green Machinery Co.	1944	208	16	--
445	12½ miles southwest	W. R. Stovall	do.	1943	205	16	--
446	13½ miles southwest	M. A. Patton	do.	1940	272	16	--
447	13 miles southwest	R. J. Stovall	do.	1944	205	16	--
448	12½ miles southwest	Seth Percy	--	--	--	--	--
449	14 miles southwest	S. E. Curry	M. A. Patton	1940	240	15	--
450	14½ miles southwest	do.	A. W. Fish	1945	257	--	--
451	15½ miles southwest	do.	W. O. Tye	1943	226	16	--



Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
429	93.2 94.4	Sept. 23, 1937 Feb. 20, 1945	T, G, 85	Irr	Irrigated 380 acres wheat and feed in 1942. Yield in 1937 estimated 700 gallons a minute.
430	87.1	July 28, 1937	C, W	S	
431	95.5	May 5, 1938	T, G, 85	Irr	Irrigated 240 acres grain, feed, and cotton in 1939. Drawdown, 16½ feet, after 13 hours pumping 700 gallons a minute, measured in 1939.
432	d/97.0	--	T, G	Irr	Pump: 2-stage, 12-inch set at 130 feet with 20 feet of suction.
433	d/86.0	--	T, G, 85	Irr	Casing: 238 feet of 16-inch. Pump: 2-stage, 12-inch, set at 132 feet. "Red Beds" at 259 feet. See log.
434	d/90.0	--	T, G, 85	Irr	Pump: 3-stage, 12-inch, set at 130 feet with 30 feet of suction.
435	d/93.0	--	T, G, --	Irr	Pump: 3-stage, 12-inch, set at 140 feet.
436	--	--	T, G	Irr	Casing: 200 feet of 16-inch, perforated below water level. Pump: 3-stage, 12-inch, set at 130 feet.
437	103.7	Dec. 8, 1945	T, G, 85	Irr	
438	d/100.0	--	T, G, 85	Irr	Pump: 2-stage, 12-inch, set at 130 feet with 10 feet of suction.
439	--	--	T, G, --	Irr	
440	--	--	T, G, --	Irr	Pump: 3-stage, set at 130 feet.
441	--	--	T, G, 85	Irr	Pump: 3-stage, 12-inch, set at 140 feet.
442	--	--	T, G, 90	Irr	Pump: 3-stage, 12-inch, set at 140 feet. See log.
443	d/90.0	--	T, G, 85	Irr	
444	d/90.0	--	T, G	Irr	Casing: 208 feet of 16-inch, perforated below water level. Pump: 3-stage, 12-inch, set at 140 feet. See log.
445	--	--	T, G, 85	Irr	Casing: 205 feet of 16-inch, perforated below water level. Pump: 3-stage, 12-inch, set at 140 feet. See log.
446	d/104.0	--	T, G, 85	Irr	Casing: 64 feet of 16-inch plain, 208 feet of 16-inch perforated. Pump: 2-stage, 12-inch set at 132 feet with 10 feet of suction. Hit "Red Beds" at 272 feet. See log.
447	d/96.0	--	T, G	Irr	Pump: 3-stage, 12-inch, set at 140 feet.
448	--	--	T, G, 85	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of suction.
449	--	--	T, G, 85	Irr	Casing: 240 feet of 15-inch, perforated below water level. Pump: 2-stage, 12-inch set at 120 feet with 10 feet of suction.
450	--	--	T, G	Irr	Pump: 3-stage, 10-inch, set at 130 feet. See log.
451	--	--	T, G, 85	Irr	Pump: 2-stage, 12-inch, set at 120 feet, 10 feet of suction. See log.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
452	14 miles southwest	S. E. Curry	H. P. Price	1940	270	14	1.0
453	do.	Clifton Reed	Green Machinery Co.	1943	202	16	--
454	14½ miles southwest	do.	--	--	--	--	0.4
455	do.	Mrs. M. M. Hall	--	--	--	--	0.6
456	16 miles southwest	Mrs. B. M. Kincaid	--	1944	206	16	--
457	14 miles southwest	A. S. Newton	--	--	--	--	--
458	13¾ miles southwest	R. F. Ormsby	Lec Koger	1939	168	15	--
459	14½ miles southwest	J. K. Hooper	L. P. Davis	1945	198	--	--
460	do.	Ruth Hooper	M. A. Patton	1941	--	--	--
461	do.	T. A. Reeves	Green Machinery Co.	1944	200	16	--
462	15½ miles southwest	E. C. Roper	Artie Fish	1944	200	16	--
463	16½ miles southwest	D. A. Alston	Green Machinery Co.	1940	230	16	--
464	do.	do.	do.	1944	220	16	0.4
465	16 miles southwest	Roy Alston	do.	1945	220	16	1.0
466	do.	Mary E. Manning	--	1944	225	13	--
467	do.	Wm. M. Kelley	J. W. Price	1940	254	14½	--
468	16½ miles southwest	C. B. Martin	Green Machinery Co.	1940	240	16	--
469	17 miles southwest	R. M. Mitchell	Bradford Supply Co.	1940	200	13	--
470	17½ miles southwest	D. N. Qualls	Peerless Pump Co.	1942	225	16	0.0
471	18 miles southwest	-- McWilliams	Green Machinery Co.	1945	215	16	1.0
472	do.	J. E. Hall	Archie Fish	1945	200	16	--
473	18½ miles southwest	Fritz W. Mogford	--	1944	200	16	--

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
452	79	July 9, 1940	T,0	Irr	Casing: 270 feet of 14 $\frac{1}{2}$ -inch, perforated below water level. Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of
453	d/86.0	--	T,G, 85	Irr	Casing: 202 feet of 16-inch, suction. perforated from 58 feet to bottom. Pump: 3-stage, 12-inch, set at 110 feet. See
454	80.8	Dec. 8, 1945	T,G, 85	Irr	log.
455	71.3	Dec. 10, 1945	T,G, --	Irr	
456	--	--	T,-	Irr	Pump: 2-stage, 12-inch, set at 100 feet with 10 feet of suction.
457	d/86.0	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 130 feet with 10 feet of suction.
458	--	--	T,G, 95	Irr	Casing to 157 feet. Pump: 3-stage, 12-inch, set at 110 feet with 10 feet of
459	d/70+	--	T,G	Irr	Pump: 2-stage, set at suction. See log. 122 $\frac{1}{2}$ feet with 10 feet of suction.
460	--	--	T,G	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of suction.
461	d/81	--	T,G, 38	Irr	Casing: lower 140 feet perforated. Pump: 3-stage, 10-inch, set at 120 feet. Estimated yield, 1,200 gallons a minute in
462	d/72.0	--	T,0, 68	Irr	Casing: lower 140 feet perforated. 1937. Pump: 1-stage, 14-inch, set at 100 feet
463	d/72.0	--	T,G, 85	Irr	Casing: 215 with 10 feet of suction. feet, lower 160 feet perforated. Pump: 1-stage, 14-inch, set at 95 feet. See
464	71.8	Dec. 7, 1945	T,G	Irr	Casing: 220 feet, perforated log. below water level. Pump: 2-stage, 12-inch, set at 110 feet with 10 feet of
465	72.2	dc.	None	N	Formerly used as irrigation suction. well, pump pulled. Will install another
466	--	--	T,G	Irr	Casing: 150 feet. Pump: 2-stage, pump. 12-inch, set at 110 feet with 10 feet of
467	d/67	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set suction. at 100 feet. See log.
468	d/71	--	T,G, 85	Irr	Bottom 170 feet of casing perforated. Pump set at 108 feet. Reported drawdown 30.5 feet in 1940 after 7 hours pumping.
469	d/70	--	T,G, 85	Irr	Bottom 131 feet of casing perforated. Pump: 2-stage, 12-inch, set at 120 feet, with 30 feet of suction. Reported drawdown
470	65.9	Dec. 7, 1945	T,G	Irr	Casing: 150 feet. Water level 22 feet measurement made on house well 150 feet
471	68.7	dc.	None	N	Casing: 210 feet. to the southeast. Just drilled. Pump not yet set.
472	d/50.0	--	T,0, 73	Irr	Pump: 2-stage, 14-inch, set at 120 feet. Estimated yield 1,800 gallons a minute in
473	--	--	T,G	Irr	Pumping when visited. Pump: 2-stage, 1945. 12-inch, set at 100 feet with 10 feet of suction.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
474	19 miles southwest	R. W. Nunn	--	1944	200	16	--
475	20 miles southwest	E. F. Whitten	--	Old	--	--	0.5
476	18½ miles southwest	Dr. E. H. Kirchoff	--	1944	220	18	--
477	18 miles southwest	Fritz W. Mogford	Green Machinery Co.	1941	203	16	--
478	do.	Joe Don Scott	do.	1944	--	16	--
479	17½ miles southwest	J. E. Holt	--	1945	180	18	--
480	16½ miles southwest	R. Q. Silverthorn	Bud Gibbons	1940	203	14	0.5
481	16 miles southwest	Norman L. Burke	Green Machinery Co.	1944	185	16	--
482	15 miles southwest	O. D. Parker	--	1939	--	--	--
483	16½ miles southwest	do.	Taylor and Gibbons	1942	200	14	--
484	16 miles southwest	Alvie Merrill	L. P. Davis	1944	200	16	--
485	17 miles southwest	L. Kanady	do.	1944	200	16	--
486	17½ miles southwest	Mrs. Ralph D. Perry	Burney Fish	1944	208	11	--
487	16½ miles southwest	do.	do.	1944	208	--	--
488	do.	do.	do.	1944	208	--	--
489	do.	do.	Peerless Pump Co.	1938	278	16	--
490	15 miles southwest	O. Milner	Green Machinery Co.	1944	185	16	--
491	do.	Gales Adams	do.	1941	205	16	1.0
492	14½ miles southwest	Omer Milner	do.	1944	185	16	--
493	15 miles southwest	R. N. Adams	--	1944	--	--	--
494	13½ miles southwest	do.	L. W. Francis	1940	212	15½	--
495	do.	L. W. Smith	-- Fish	1945	237	16	--

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
474	d/63.0	--	T,G	Irr	Pump: 1-stage, 14-inch, set at 100 feet. Reported yield, 1,360 gallons a minute in
475	59.6	May 19, 1938	C,W	N	Windmill now abandoned. 1944
476	d/100.0	--	T,G	Irr	Pump set at 120 feet with 20 feet of suction.
477	--	--	T,G	Irr	Lower 144 feet of casing perforated. Pump: 1-stage, 14-inch, set at 96 feet.
478	--	--	T,G	Irr	Pump set at 110 feet. See log.
479	d/50.0	--	T,G, 85	Irr	Casing: lower 80 feet perforated. Pump: 2-stage, 12-inch, set at 100 feet with 10
480	73.6	Dec. 7, 1945	T,G, 85	Irr	Bottom 135 feet of feet of suction. casing perforated. Pump: 2-stage, 12-inch, set at 100 feet with 20 feet of
481	--	--	T,G, 100	Irr	Pump: 3-stage, 12-inch, set at suction. 120 feet.
482	--	--	T,G, 95	Irr	Pump set at 120 feet.
483	--	--	T,G, 85	Irr	Pump set at 100 feet. Yield, 1,000 gallons a minute, estimated in 1943.
484	--	--	T,G, 85	Irr	Casing perforated lower 160 feet. Pump: 2-stage, 12-inch, set at 100 feet with 10
485	--	--	T,G	Irr	Pump: 2-stage, set feet of suction. at 110 feet.
486	d/70.0	--	T,G	Irr	Casing: 76 feet of 11-inch plain, 36 feet of 9-inch, and 95 feet of 4-inch perforated. Pump: 2-stage, 12-inch set at 130 feet with 10 feet of suction.
487	d/75.0	--	T,G	Irr	Casing: perforated lower 145 feet. Pump: 2-stage, 12-inch, set at 100 feet with 10 feet of suction; lowered to 130 feet 16
488	d/80.0	--	T,G	Irr	Pump: 2-stage, days later. See log. 12-inch, set at 130 feet with 10 feet of suction. This replaces No. 489.
489	d/90.0	--	None	N	First water sand at 90 feet; second at 150 feet. Chief aquifer coarse sand from 158 feet down. Reported struck "Red Beds" at 268 feet. Well abandoned and replaced by No. 488, drilled a few feet south.
490	--	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 120 feet. See log.
491	89.1	Mar. 30, 1943	T,G, 95	Irr	Pump: 2-stage, 12-inch, set at 120 feet.
492	--	--	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 130 feet. See log.
493	--	--	T,G	Irr	Pump: 2-stage, 12-inch, set at 140 feet with 10 feet of suction.
494	d/102.0	--	T,-	Irr	Dc.
495	--	--	T,G, 85	Irr	Casing: lower 152 feet perforated. Pump: 3-stage, 12-inch, set at 140 feet.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
496	13 miles southwest	L. W. Smith	Dosh Stallings	1941	237	16	--
497	13 miles west	do.	-- Fish	1945	237	16	--
498	12 miles west	J. F. Benefield	Green Machinery Co.	1945	200	--	--
499	do.	do.	--	--	--	--	--
500	13 miles west	L. E. Lyon	--	1945	--	--	--
501	9½ miles northwest	A. D. Parker	Dosh Stallings	1938	214	14	--
502	9 miles northwest	Clyde Bradford	John Tucker	1941	208	--	0.0
503	do.	do.	Henry Patzig	1940	203	--	0.3
504	8½ miles northwest	Clyde Bradford	Jchn Tucker	1944	185	--	0.0
505	do.	do.	do.	1944	185	--	0.0
506	do.	do.	do.	1944	175	--	0.0
507	do.	R. H. Bradford	do.	1945	--	--	0.9
508	do.	do.	do.	1943	190	--	0.9
509	7 miles northwest	J. H. Stout	--	1944	--	--	--
510	8 miles northwest	J. E. Orr	--	1945	--	--	--
511	9½ miles northwest	W. W. Stephenson	--	1945	--	--	--
512	do.	Louis Smith	Carl Mangum	1940	200	16	--
513	do.	Mrs. Corine Bennett	Matt Kell	1944	180+	--	--
514	9 miles northwest	T. W. Rucker	Leo Koger	1940	200	16	1.0
515	8 miles northwest	Victor Harmon	Matt Kell	1945	200+	--	--
516	7 miles northwest	Charles L. White	John Tucker	1945	210	16	1.3
517	do.	do.	do.	1945	--	--	4.5
518	7½ miles northwest	Mrs. H. C. George	Matt Kell	1945	240	--	--
519	8½ miles northwest	Foster Harmon	do.	1945	190	--	--
520	13 miles north	Mrs. D. H. Culton	Leo Koger	1940	215	--	0.0
521	15 miles northwest	City of Happy	Travis Gillum	1928	179	6	--

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
496	--	--	T,G, 85	Irr	Casing: lower 152 feet perforated. Pump: 3-stage, 12-inch, set at 140 feet.
497	--	--	T,G, 85	Irr	Do.
498	--	--	T,G	Irr	
499	--	--	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 140 feet with 10 feet of suction.
500	--	--	T,G, 85	Irr	
501	d/86.0	--	T,G, 85	Irr	Pump: 3-stage, set at 140 feet with 10 feet of suction. Sand from 200 feet to
502	78.0	Dec. 10, 1945	None	N	Drilled for irrigation well, red clay. insufficient water.
503	77.5	do.	T,O	Irr	Not cased. Pump: 4-stage, 12-inch, set at 150 feet.
504	70.9	do.	None	N	Not cased. Drilled for irrigation well. abandoned, insufficient water.
505	70.7	do.	None	N	Do.
506	70.8	do.	None	N	Do.
507	80.7	Nov. 27, 1945	T,G	Irr	Not cased. Pump set at 120 feet with 30 feet of suction.
508	68.1	do.	T,G	Irr	Well not cased. Pump set at 120 feet with 30 feet of suction.
509	--	--	T,G, 85	Irr	
510	--	--	T,G, 85	Irr	
511	--	--	T,G, 85	Irr	
512	d/100.0	--	T,G, 95	Irr	Casing: 200 feet of 16-inch perforated below 100 feet. Pump: 4-stage, 12-inch, set at 170 feet.
513	--	--	T,G, 85	Irr	Not cased. Sanded up in 1945. Pump: 3-stage, 12-inch, set at 170 feet with 10 feet of suction.
514	84	Sept. 26, 1940	T,G, 95	Irr	Casing perforated below 100 feet. Pump: 4-stage, 12-inch, set at 180 feet.
515	--	--	T,G	Irr	Not cased. Pump: 4-stage, 12-inch, set at 170 feet. Will replace pump with
516	66.0	Dec. 11, 1945	T,-	Irr	Casing: 110 feet. Pump smaller one. being set when visited.
517	66.0	do.	T,G	Irr	Not cased. Pump: 3-stage, 10-inch.
518	--	--	T,G	Irr	Not cased. Pump: 4-stage, 12-inch, set at 170 feet with 20 feet of suction.
519	--	--	T,G	Irr	Not cased. Pump: 3-stage, 12-inch, set at 150 feet with 17 feet of suction.
520	90.8	Nov. 7, 1940	None	N	"Red Beds" reported at 218 feet. Drilled for irrigation.
521	--	--	T,E, 3	P	Cased 20 feet. Measured yield 25 gallons a minute in 1945. Drilled to "Red Beds".

Well	Distance from Tulia	Owner	Driller	Date com- ple- ted	Depth of well (ft.)	Diam- eter of well (in.)	Height of measuring point above ground (ft.) a/
522	15 miles northwest	City of Happy	Leo McDade	1928	179	6	--
701	10 $\frac{1}{2}$ miles east	Charles Herring	John Tucker	1945	108	--	--
702	do.	do.	Henry Patzig	1940	200	16	1.6
703	10 miles east	Clarence Rodgers	do.	1939	150+	16	2.5
704	9 $\frac{1}{2}$ miles southeast	C. L. Gunter	--	--	--	--	1.3
705	10 $\frac{1}{8}$ miles southeast	do.	Jeff Davis	1945	171	16	--
706	do.	Mrs. A. M. Anderson	--	1941	180	--	--
707	do.	Eltcn E. Flake	Jeff Davis	1944	135	16	0.9
708	13 miles southeast	J. W. Moore, Jr.	--	1944	--	--	--
709	13 $\frac{1}{2}$ miles southeast	J. C. Johnson	Jeff Davis	1945	179	16	--
710	12 $\frac{1}{2}$ miles southeast	W. L. Hodges	--	1941	190+	--	--
711	12 miles southeast	M. C. Grantham	--	--	--	--	1.0
712	9 miles southeast	Mrs. Nell Southern	Green Machinery Co.	1942	167	16	--
713	dc.	do.	Jeff Davis	--	144	16	--
714	10 $\frac{1}{2}$ miles southeast	L. L. Armor	do.	1945	180	--	--
715	11 $\frac{1}{2}$ miles southeast	Lloyd Butler	--	--	--	--	--
716	do.	Mrs. Ronda Cochran	--	--	--	--	--
717	16 miles southeast	-- Willingham	Bradford Supply Co.	1941	190	16	--
718	16 $\frac{1}{2}$ miles southeast	do.	do.	1941	165	16	--
719	15 miles southeast	Percy Hauck	-- Mayfield	1937	195	--	--
720	do.	Warner Reid	--	1938	200+	--	--
721	18 miles southeast	Dr. -- Blackerby	Leo Koger	1943	160+	--	--
722	do.	Warner Reid	Dave Loughborough	1939	150+	--	--
723	16 $\frac{1}{2}$ miles southeast	L. L. Armor	Leo Koger	1942	216	--	--
724	do.	Robert F. Devin	-- Fish	1945	174	16	--



Well	WATER	LEVEL		Method of lift	Use of water	Remarks
	Belcw land surface (ft.)	Date of measurement				
522	--	--	--	T, E 10	P	Measured yield 25 gallons a minute in 1945. Drilled to "Red Beds".
701	d/40.0	--	--	None	N	Drilled for irrigation.
702	39.1	May 15, 1943		T, G	Irr	"Red Beds" at 200 feet. Reported that dry hole about 100 yards south reached
703	39.7	do.		T, G	Irr	Pump: 4-stage, "Red Beds" at 122 feet. 10-inch, set at 80 feet with 10 feet of suction. Yield reported in 1942, 200 gallons a minute. "Red Beds" at about
704	49.0	Nov. 29, 1945		T, G	Irr	Pump: 1-stage, 14-inch, set 150 feet. at 70 feet with 10 feet of suction.
705	d/51.0	--		T, G 85	Irr	Pump: 3-stage, 12-inch, set at 80 feet. Two abandoned holes north of this well
706	--	--		T, G 85	Irr	Pump set at 120 feet. within 1/4 mile. "Dry hole" reported 300 yards south of
707	47.8	Nov. 30, 1945		T, G 95	Irr	Pump set at 90 feet. Twelve this well. foot layer of river-bed gravel at bottom.
708	--	--		T, G 95	Irr	"Red Beds" at 115 feet.
709	d/100.0	--		T, G	Irr	Casing: 60 feet, set from 80 to 140 feet. About 70 feet of water sand reported. Well
710	--	--		T, G 85	Irr	Drilled being developed when visited. to "Red Beds".
711	58.1	Nov. 28, 1945		None	N	Drilled for irrigation. Insufficient water. Several other "dry holes" nearby.
712	--	--		T, G 95	Irr	Casing: 16-inch to 149 feet, 13-inch to 167 feet. Pump: 2-stage, 12-inch, set at
713	--	--		T, G 100	Irr	Pump: 3-stage, 12-inch, 84 feet. See log. set at 130 feet with 10 feet of suction.
714	d/55.0	--		T, G 100	Irr	Pump: 3-stage, 12-inch, set at 130 feet. "Dry hole" about 200 yards south of well.
715	--	--		T, G 85	Irr	
716	--	--		T, G	Irr	
717	--	--		T, G	Irr	Casing: 178 feet of 16-inch. Pump: 3-stage, 12-inch set at 140 feet with 15
718	--	--		T, G 85	Irr	Pump: 3-stage, 12- feet of suction. inch, set at 140 feet with 10 feet of
719	--	--		None	N	Drilled for irrigation, but suction. unsuccessful. Another "dry hole" nearby
720	--	--		T, G 93	Irr	on north half of section.
721	--	--		T, G 85	Irr	Not cased.
722	--	--		T, G 85	Irr	Pump set at 90 feet.
723	d/61.0	--		T, G	Irr	Not cased. Pump: 2-stage, 12-inch set at 120 feet.
724	d/60.0	--		T, G	Irr	Cased to 130 feet, lower 80 feet perforated. Pump has 120 foot setting and 20 feet of suction.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date com- ple ted	Depth of well (ft.)	Diam- eter of well (in.)	Height of measuring point above ground (ft.) a/
725	16 miles southeast	J. D. Seale	--	--	--	--	--
726	14 miles southeast	L. L. Armor	--	--	190+	--	--
727	13 miles southeast	do.	J. F. Davis	1943	193	--	--
728	do.	W. C. Young	Green Machinery Co.	1942	184	16	--
729	12 $\frac{1}{2}$ miles southeast	Mrs. J. A. Edwards	--	--	--	--	--
730	do.	L. L. Armor	J. F. Davis	1943	215	--	--
731	do.	do.	--	--	200	--	--
732	11 $\frac{1}{2}$ miles southeast	do.	Green Machinery Co.	--	230	16	--
733	do.	do.	J. F. Davis	1943	185	--	--
734	10 $\frac{1}{2}$ miles southeast	R. A. Weiss	--	--	--	--	--
735	11 $\frac{1}{2}$ miles southeast	do.	J. F. Davis	1943	--	--	--
736	12 miles southeast	Arthur P. Barker	--	1938	--	--	--
737	do.	A. B. Morris	--	--	200	16	--
738	do.	Fred Linderman	--	--	--	--	--
739	11 $\frac{1}{2}$ miles southeast	J. E. Allison	--	1940	200	15	--
740	do.	Grover Bryson	Green Machinery Co.	1940	--	12	--
741	12 $\frac{1}{2}$ miles southeast	R. H. Mitchell	do.	1941	230	16	--
742	13 miles southeast	do.	--	1938	190	18	--
801	5 miles southwest	Elisha Roper	--	1939	--	--	--
802	7 miles southwest	W. W. Boston	--	1944	225	16	1.1
803	6 $\frac{1}{2}$ miles south	Curt Glen	Mullens and Manning	1937	210	20	--
804	5 $\frac{1}{2}$ miles south	Geo. A. Love	--	--	--	--	1.1
805	2 $\frac{1}{2}$ miles south	A. E. Woodward	John Tucker	1940	175	15	--

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
725	55.9	Nov. 16, 1945	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 110 feet.
726	--	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 100 feet with 10 feet of suction.
727	<u>d</u> /55.0	--	T,G, --	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of suction.
728	<u>d</u> /50.0	--	T,G, 85	Irr	Casing: 175 feet of 16-inch. Pump: 2-stage, 12-inch, set at 96 feet. See log.
729	--	--	T,G	Irr	
730	<u>d</u> /65.0	--	T,G	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of suction.
731	--	--	T,-	Irr	Cased: 100 feet. Pump: 2-stage, set at 100 feet with 10 feet of suction.
732	--	--	None	N	Casing: 230 feet of 16-inch, 160 feet perforated. Drilled for irrigation.
733	<u>d</u> /60.0	--	T,G, 95	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of suction. See log.
734	--	--	T,G	Irr	
735	--	--	T,G, 95	Irr	Pump: 2-stage, 12-inch, set at 110 feet. Reported yield 700 gallons a minute in
736	--	--	T,G, 85	Irr	1944.
737	<u>d</u> /57.0	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 110 feet with 11 feet of suction.
738	--	--	T,G, 95	Irr	Pump: 2-stage, 12-inch, set at 100 feet with 10 feet of suction.
739	<u>d</u> /65.0	--	T,G	Irr	Pump: 2-stage, 12-inch, set at 110 feet with 20 feet of suction.
740	--	--	T,G, 95	Irr	Pump: 2-stage, 12-inch, set at 96 feet.
741	--	--	T,G, 85	Irr	Pump: 2-stage, set at 120 feet.
742	--	--	T,G	Irr	Cased to 16 feet. Pump: 3-stage, 12-inch, set at 90* feet.
801	--	--	--	Irr	
802	75.7	Dec. 8, 1945	T,G	Irr	Casing: 225 feet of 16-inch, lower 120 feet perforated. Pump: 3-stage, 12-inch set at 130 feet with 20 feet of suction.
803	<u>d</u> /72	--	T,G, 85	Irr	Casing: 210 feet of 20, 14 and 12-inch, perforated from 70 feet to bottom. Pump: 2-stage, 12-inch, set at 120 feet. Draw-down, 35 feet, measured on August 17, 1939, after 6 hours pumping at 950 gallons a
804	63.2	Dec. 8, 1945	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at minute. 120 feet with 10 feet of suction.
805	<u>d</u> /47.0	--	T,G, 85	Irr	Casing: 50 feet of 15-inch at bottom. Pump: 2-stage, 12-inch, set at 90 feet with 12 feet of suction.

Records of wells in Swisher County -- Continued

Well	Distance from Tullia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
806	1 <sup>3</sup> / <sub>4</sub> miles south	L. D. LeMaster	Leo Koger	1940	168	15	--
807	2 <sup>1</sup> / <sub>4</sub> miles southeast	Chester Ellis	--	1943	--	--	--
808	do.	J. R. Sprawls	O. V. Sprawls	--	165	--	1.1
809	do.	A. M. Wilson	--	--	--	--	1.4
810	4 <sup>1</sup> / <sub>4</sub> miles southeast	R. L. May	Green Machinery Co.	1945	166	16	--
811	3 <sup>1</sup> / <sub>2</sub> miles southeast	C. W. Rose	John Tucker	--	--	--	--
812	4 <sup>1</sup> / <sub>4</sub> miles southeast	Hershel Clawson	do.	1941	200	15	--
813	5 <sup>1</sup> / <sub>2</sub> miles southeast	R. L. Stringer	--	1945	190	--	--
814	5 miles southeast	A. H. Jennings	Green Machinery Co.	1943	200	16	--
815	6 <sup>1</sup> / <sub>2</sub> miles southeast	J. Roy Stockett	--	--	--	--	--
816	7 miles southeast	Fred Shores	Green Machinery Co.	1944	208	16	--
817	do.	Walter Goss	--	--	--	--	0.3
818	7 miles south	Mrs. W. H. Harrell	Green Machinery Co.	1938	220	16	--
819	7 <sup>1</sup> / <sub>2</sub> miles south	W. F. Kerr	W. F. Kerr	1944	--	--	--
820	do.	J. W. Dine	--	--	--	--	--
821	8 miles south	Woodie Boston	Jeff Davis	1944	200	16	1.0
822	9 miles south	Mrs. S. R. Blaise	Burnie Fish	1944	200	16	--
823	do.	E. P. Lipham	-- Fish	1945	206	16	--
824	10 miles southwest	Progress Farm	Green Machinery Co.	1942	256	16	--
825	do.	do.	do.	1937	202	16	--
826	10 <sup>1</sup> / <sub>2</sub> miles south	A. J. Lundquist	do.	1945	190	16	1.8
827	do.	C. F. Sjogren	--	1940	200	16	--
828	do.	E. A. Hostefler	Green Machinery Co.	1945	--	--	--
829	11 <sup>1</sup> / <sub>2</sub> miles south	Henry Evans	L. W. Price	1940	211	14 <sup>1</sup> / <sub>2</sub>	--
830	12 <sup>1</sup> / <sub>2</sub> miles south	Mead F. Griffin	--	--	--	--	--

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
806	d/65.0	--	T,G, 95	Irr	Cased to 150 feet. Pump: 2-stage, 12-inch, set at 90 feet with 10 feet of suction.
807	--	--	T,Ng	Irr	Yield 800 gallons a minute, reported in 1945.
808	65.6	Dec. 11, 1945	T,G, 100	Irr	Pump set at 100 feet. Water from coarse white sand. Yield reported, 1,250 gallons a minute in 1945.
809	63.7	do.	T,G	Irr	
810	--	--	None	N	Pump not yet set.
811	--	--	T,G, 85	Irr	
812	d/45	--	T,G, 85	Irr	Casing: lower 50 feet. Pump: 2-stage, 12-inch, set at 110 feet with 10 feet of suction.
813	d/62.0	--	T,G	Irr	Yield 900 gallons a minute, reported in 1945.
814	d/65.0	--	T,G, 95	Irr	Casing: 200 feet of 16-inch. Pump: 3-stage, 12-inch, set at 120 feet. See log.
815	--	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 100 feet with 20 feet of suction.
816	--	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 130 feet.
817	81.1	Nov. 26, 1945	T,G	Irr	Pump: 2-stage, 12-inch, set at 120 feet.
818	--	--	T,Ng, 95	Irr	Pump: 3-stage, set at 120 feet with 12 feet of suction.
819	--	--	T,G	Irr	
820	77.6	Aug. 17, 1939	T,G, 85	Irr	
821	88.8	Dec. 8, 1945	T,G, 85	Irr	Casing: 140 feet of 16-inch, bottom 60 feet perforated. Pump: 3-stage, 12-inch, set at 120 feet. Yield 900 gallons a minute estimated in 1939.
822	--	--	T,G	Irr	Casing: oil field, lower 125 feet perforated. Pump: 3-stage, 12-inch, set at 120 feet.
823	--	--	T,G	Irr	Bottom 150 feet of casing perforated. Pump: 3-stage, 12-inch, set at 120 feet with 10 feet of suction.
824	d/84.0	--	T,G, 85	Irr	Pump: 3-stage, set at 132 feet with 16 feet of suction. See log.
825	d/84.0	--	T,G, 95	Irr	Pump: 3-stage, set at 132 feet with 16 feet of suction.
826	81.9	Dec. 8, 1945	T,G, 95	Irr	Pump: 3-stage, set at 130 feet with 12 feet of suction.
827	--	--	T,G, 95	Irr	Casing: lower 128 feet perforated. Pump: 2-stage, 12-inch, set at 120 feet.
828	--	--	None	N	Just started to drill when visited.
829	d/70.0	--	T,G, 95	Irr	Casing perforated lower 171 feet. Pump set at 110 feet. See log.
830	--	--	T,G	Irr	Pump: 1-stage, 14-inch, set at 108 feet.

## Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
831	13½ miles south	John W. Krueel	Green Machinery Co.	1942	245	16	1.0
832	do.	Kanady Bros.	do.	--	215	--	--
833	13 miles south	E. E. Formway	--	1945	--	--	--
834	do.	G. W. Robertson	Green Machinery Co.	1941	228	16	--
835	13½ miles south	Mrs. G. R. Henkel	--	--	--	--	1.0
836	13 miles south	B. F. Block	--	--	--	--	--
837	13½ miles south	W. H. Crawford	-- Tye	1943	263	14	--
838	13 miles south	do.	R. D. Sawyer	1938	202	14	--
839	do.	E. L. George	Leo Koger	1939	200	16	1.5
840	do.	G. T. Elliott	Green Machinery Co.	1944	200	16	0.0
841	do.	L. C. Battey	--	1945	208	--	--
842	do.	E. L. George	Leo Koger	1939	191	--	0.4
843	13½ miles south	Mrs. D. M. Wood	--	1944	--	--	--
844	12 miles south	Mrs. J. W. Skioforth	--	--	--	--	1.0
845	do.	Wilson Drake	A. W. Fish	1945	295	10	--
846	do.	C. F. Harris	Green Machinery Co.	1945	230	16	--
847	11½ miles south	do.	do.	1944	256	16	--
848	do.	do.	Leo Koger	1939	227	15	--
849	11 miles south	G. W. Montgomery	Green Machinery Co.	1944	192	16	--
850	10½ miles south	T. S. Walker	Louis Francis	1939	203	--	1.5
851	11 miles south	A. D. Bassell	--	1938	200	--	--
852	10 miles south	Kenneth Block	--	1936	250	--	6.0
853	do.	J. T. McDaniel	Green Machinery Co.	1945	180	16	--
854	do.	L. J. Knuckles	W. O. Tye	1945	250	16	4.6
855	9½ miles south	do.	do.	1944	242	12	5.1

Well	WATER	LEVEL	Method of lift b/ c/	Use of water c/	Remarks
	Below land surface (ft.)	Date of measurement			
831	76.7	Mar. 29, 1943	T,G, 93	Irr	Pump: 2-stage, 14-inch, set at 120 feet with 10 feet of suction.
832	--	--	T,G, 85	Irr	
833	--	--	None	N	Well just drilled. Pump not yet set.
834	d/66.0	--	T,G, 95	Irr	Casing: 178 feet of 16-inch, 152 feet perforated. Pump set at 120 feet.
835	77	Mar. 29, 1943	T,G	Irr	
836	--	--	T,G	Irr	
837	--	--	T,G	Irr	Pump: 4-stage, 10-inch, set at 120 feet with 10 feet of suction. Pump lowered to
838	d/55.0	--	T,Ng	Irr	Casing: 180 feet of 14-inch. Pump: 2-stage, 12-inch set at 100 feet. See log.
839	78.1	Dec. 8, 1945	T,G	Irr	Casing: 80 feet of 16-inch.
840	79.8	Ncv. 12, 1945	T,G	Irr	Pump: 3-stage, 12-inch, set at 120 feet.
841	--	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 110 feet with 10 feet of suction.
842	78.9	Dec. 8, 1945	T,G	Irr	Pump: 3-stage, 12-inch, set at 100 feet with 20 feet of suction. Pumping lift reported 100 feet.
843	--	--	--	--	
844	71.4	Dec. 8, 1945	T,G, 95	Irr	Pump: 3-stage, 12-inch, set at 110 feet with 10 feet of suction.
845	--	--	T,G, 95	Irr	Casing: 20 feet of 10-inch.
846	--	--	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 120 feet with 10 feet of suction. See log.
847	d/73.0	--	T,G	Irr	Pump: 2-stage, 14-inch, set at 120 feet.
848	d/74.0	--	T,G 85	Irr	Well cased 126 feet. Went into blue clay at 125 feet. Pump set at 100 feet. Yield 1,100 gallons a minute, reported in 1937.
849	d/62.0	--	T,G, 90	Irr	Casing: 188 feet of 16-inch. Pump: 3-stage, 14-inch, set at 140 feet.
850	77.6	Sept. 26, 1940	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 140 feet. Hit "Red Beds" at 250 feet. See log.
851	--	--	T,G, 85	Irr	Pump set at 130 feet.
852	85.5	Feb. 27, 1946	T,Ng, 85	Irr	Pump set at 110 feet. Reported yield 800 gallons a minute. Drawdown estimated 55
853	d/79.0	--	T,Ng, 85	Irr	Pump: 3-stage, 12-inch, set at 130 feet with 10 feet of suction.
854	69.6	Dec. 8, 1945	T,-	Irr	Pump set at 130 feet.
855	75.5	Feb. 27, 1945	T,Ng, 95	Irr	Pump set at 130 feet with 10 feet of suction.

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
856	9 miles south	F. M. Foreman	--	1937	300	--	--
857	8 $\frac{1}{2}$ miles south	M. J. Coppock	Green Machinery Co.	1941	202	16	--
858	9 miles south	A. W. Scurrelle, Jr.	Burnie Fish	1945	200 $+$	16	--
859	10 miles south	do.	Green Machinery Co.	1943	190 $+$	16	--
860	10 miles southeast	David Wimberly	--	1945	197	--	--
861	do.	B. F. Edwards	--	1941	192 $+$	--	--
862	11 miles southeast	Elbert Keahey	--	1941	--	16	--
863	12 miles southeast	S. H. Dean	Green Machinery Co.	1944	193	16	--
864	13 $\frac{1}{2}$ miles southeast	Patsy Locasio	--	--	--	--	--
865	12 miles southeast	Mrs. Anna Ballengee	Green Machinery Co.	1940	230	16	--
866	10 $\frac{1}{2}$ miles southeast	W. T. Watson	Cook and Pate	1937	168	16	0.7
867	do.	T. H. Trotter	--	1944	200 $+$	--	--
868	10 miles southeast	W. T. Watson	Louis Francis	--	240	16	--
869	9 $\frac{1}{2}$ miles southeast	W. H. Rollow	W. J. Altman	1943	192	16	--
870	12 miles southeast	W. H. Crawford	--	1938	--	--	--
871	do.	do.	--	1938	200	--	--
872	7 $\frac{1}{2}$ miles southeast	Clyde Wilkins	--	1945	150 $+$	--	--
873	6 miles southeast	T. J. Robb	John Tucker	1945	175 $+$	--	--
874	5 $\frac{1}{2}$ miles southeast	do.	do.	--	187	16	--
875	do.	A. B. Billington	Lec Koger	1944	135	14	0.9
876	6 miles southeast	L. B. Ferguson	Green Machinery Co.	1945	147	16	--
877	do.	D. J. Crawford	--	--	160 $+$	--	--
878	6 $\frac{1}{2}$ miles southeast	do.	Dosh Stallings	1945	160	14	--



Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
856	--	--	T,G, 85	Irr	Pump set at 120 feet.
857	d/66.0	--	T,G, 95	Irr	Casing: 202 feet of 16-inch, 144 feet perforated. Pump: 2-stage, 12-inch, set at 108 feet. "Red Beds" at 196 feet. See log.
858	d/50.0	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 120 feet. See log.
859	--	--	T,E, 30	Irr	Irrigated 300 acres wheat, maize, and feed in 1945.
860	--	--	None	N	Hole drilled crooked, cased 138 feet. Pump pulled and concrete foundation torn out. "Red Beds" at 197 feet. See log.
861	--	--	T,G, 85	Irr	
862	d/52.0	--	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 100 feet with 20 feet of suction.
863	--	--	T,G, 90	Irr	Pump: 3-stage, 12-inch, set at 150 feet.
864	--	--	T,G, 85	Irr	
865	--	--	T,G, 90	Irr	Casing: 170 feet of 16-inch, 112 feet perforated. Pump: 2-stage, 12-inch, set at 108 feet. "Red Beds" at 230 feet. See log.
866	61.8	Nov. 14, 1945	T,G, 95	Irr	Not cased. Pump: 2-stage, 12-inch, set at 90 feet. "Red Beds" reported at 160 feet. See log.
867	--	--	T,G, 95	Irr	Pump: 2-stage, set at 120+ feet.
868	--	--	None	N	Drilled for irrigation. "Red Beds" at 187 feet.
869	d/45	--	T,G, 95	Irr	Pump: 4-stage, 10-inch, set at 120 feet with 10 feet of suction. See log.
870	--	--	T,G, 95	Irr	
871	--	--	T,G	Irr	Drilled to "Red Beds".
872	d/70.0	--	None	N	Drilled for irrigation well. Hole plugged. Neighbors report will be used soon.
873	--	--	T,G, 95	Irr	Pump: 2-stage, set at 120 feet. Drilled to "Red Beds".
874	--	--	None	N	Drilled for irrigation. Reported weak, abandoned.
875	59.2	Dec. 1, 1945	T,G, 95	Irr	Pump: 3-stage, set at 110 feet with 6 feet of suction. Yield, 1,000 gallons an hour, reported in 1945.
876	d/54	--	T,O, 62	Irr	Pump: 2-stage, 14-inch, set at 96 feet with 12 feet of suction. "Dry Hole" about 200 paces south, located on local "Red Bed" high.
877	--	--	None	N	Drilled for irrigation. Casing pulled. See log.
878	--	--	T,G	Irr	Pump: 2-stage, set at 90 feet with 20 feet of suction. Yield about 250 gallons a minute reported in 1945.

## Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
879	7½ miles southeast	Mrs. A. B. Martin	--	1944	208	16	--
880	8 miles southeast	do.	--	1943	--	--	--
881	do.	do.	Jeff Davis	1943	200	--	--
882	do.	J. A. Ellis	do.	1944	200	--	0.4
883	do.	do.	A. W. Fish	1945	200	--	0.7
884	9 miles southeast	E. M. Prather	--	--	--	--	--
885	8½ miles southeast	W. A. Sorrell, Jr.	--	--	--	--	0.5
886	9½ miles southeast	Dr. W.P. McCoslin	U. F. Davis	1943	190	--	--
887	10 miles southeast	H. M. Householder	-- Davis	1945	200	18	--
888	10½ miles southeast	C. H. Obenhaus	Bradford Supply Co.	1938	198	16	0.9
889	11 miles southeast	W. A. Huson	--	1943	--	--	--
890	11½ miles southeast	O. P. Lindley	Green Machinery Co.	1944	198	16	--
891	12 miles southeast	C. M. Walters	do.	1945	200+	16	--
892	12½ miles southeast	Albert Gibbons	do.	1940	200	16	--
893	13 miles southeast	A. I. Pimlot	--	1940	--	--	--
894	14½ miles southeast	Joe Bontze	--	1941	--	--	--
901	10½ miles west	Ellis Stewart	Green Machinery Co.	1944	225	16	--
902	9 miles west	Farris Vaughn	do.	1944	200	16	--
903	8 miles southwest	G. W. Dunn	W. J. Altman	1938	200	14	--
904	7½ miles southwest	J. C. Cowan, Jr.	--	1945	--	--	1.5
905	10½ miles southwest	Mrs. Nina Fuqua	--	1945	--	--	--
906	11 miles southwest	J. W. Benefield	--	1945	--	--	--
907	12½ miles southwest	R. T. O'Daniel	Davis and Greene	1945	210	--	--

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
879	--	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 110 feet with 10 feet of suction.
880	--	--	T,G	Irr	Pump: 4-stage, 10-inch, set at 100 feet with 10 feet of suction.
881	d/65.0	--	T,G	Irr	Pump: 2-stage, 12-inch, set at 100 feet with 10 feet of suction.
882	64.8	Dec. 12, 1945	None	N	Not cased. Reported yield in 1945 250 to 300 gallons a minute.
883	58.4	dc.	None	N	Do.
884	--	--	T,G	Irr	Pump: 4-stage, 10-inch, set at 100 feet with 10 feet of suction.
885	78.8	Dec. 12, 1945	T,G	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of suction.
886	--	--	T,G, 85	Irr	Not cased. Pump set at 96 feet.
887	d/50.0	--	T,G, 120	Irr	Casing: 120 feet, 80 feet perforated. Pump: 2-stage, 12-inch, set at 120 feet
888	52.2	Jan. 6, 1939	T,G, 85	Irr	Casing: 93 feet with 10 feet of suction of 16-inch, last 40 feet perforated. Pump: 3-stage, 12-inch, set at 90 feet with 30 feet of suction. Principal sand from 168 to 189 feet. Drawdown, June 10, 1938, 25 feet after pumping 5 hours at 1,000 gallons a minute.
889	--	--	T,G, 85	Irr	
890	--	--	T,G, 95	Irr	Pump: 2-stage, 12-inch, set at 100 feet.
891	d/50.0	--	None	N	Drilled for irrigation. Pump not yet installed when visited.
892	--	--	T,G, 85	Irr	Casing: 66 feet of 16-inch plain, 144 feet perforated. Pump: 2-stage, 12-inch,
893	--	--	T,G	Irr	Estimated yield in [ ] set at 180 feet. 1940, 750 gallons a minute.
894	--	--	T,G	Irr	No casing. Pump: 3-stage, 12-inch, set at 130 feet with 10 feet of suction. Re-
901	--	--	T,G, 150	Irr	Pump: 3-stage, 12-inch, set at 150 feet. [ ] places well 381. See log.
902	d/90.0	--	T,G	Irr	Casing: 198 feet of 16-inch, perforated below water level. Pump: 3-stage, 12-inch, set at 140 feet.
903	d/98.0	--	T,G, 85	Irr	Casing perforated, bottom 104 feet. Pump: 3-stage, 12-inch, set at 130 feet with 20
904	90.2	Nov. 18, 1945	T,-	Irr	[ ] feet of suction. See log.
905	--	--	None	N	Hole just drilled.
906	--	--	T,G, 85	Irr	
907	--	--	T,G, 85	Irr	Pump: 2-stage, set at 158½ feet with 11 feet of suction. See log.

Records of wells in Swisher County -- Continued

Well	Distance from Tulia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
908	12 miles southwest	R. H. Gaylor	Green Machinery Co.	1942	230	16	--
909	13 $\frac{1}{2}$ miles southwest	Harold Rouser	do.	1943	200	16	--
910	13 miles southwest	Mrs. M.L. Davenport	do.	1944	208	16	--
911	13 $\frac{1}{2}$ miles southwest	F. O. Burk	do.	1943	200	16	--
912	do.	do.	do.	1944	208	16	--
913	do.	Center Plains School	--	--	100	--	0.3
914	do.	Mrs. W.F. Patterson	Green Machinery Co.	1944	200 $\frac{1}{2}$	16	0.5
915	do.	A. J. McCollum	--	1934	200	16	--
916	12 $\frac{1}{2}$ miles southwest	O. P. Bowser	--	1944	--	--	0.7
917	12 miles southwest	B. O. Burke, Jr.	Green Machinery Co.	1945	208	16	1.5
918	12 $\frac{1}{2}$ miles southwest	do.	do.	1943	211	16	--
919	do.	Norman L. Burke	do.	1943	211	16	--
920	12 miles southwest	do.	do.	1944	185	16	--
921	do.	W. T. Bagley	do.	1945	215	16	0.9
922	11 miles southwest	do.	do.	1938	200 $\frac{1}{2}$	16	--
923	10 $\frac{1}{2}$ miles southwest	R. H. Mitchell	--	1938	--	--	--
924	do.	O. P. Mercer	Green Machinery Co.	1945	200	16	1.0
925	do.	do.	do.	1945	200	16	--
926	11 miles southwest	L. E. Bradshaw	do.	1945	185	16	--
927	do.	-- Diller	--	1941	186	--	--
928	do.	R. H. Gaylor	--	--	200 $\frac{1}{2}$	--	--
929	10 miles southwest	J. R. McGuire	--	1938	--	--	1.2
930	9 miles southwest	R. H. Jennings	--	1944	--	--	--
931	do.	do.	John Tucker	1943	--	--	--
932	do.	H. R. Chenoweth	do.	1941	270	14	1.1
933	do.	Elisha Roper	--	1945	--	--	0.7

Well	WATER	LEVEL	Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
908	d/82.0	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 120 feet.
909	--	--	T,0	Irr	See log.
910	d/92	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 130 feet.
911	d/85	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 120 feet.
912	--	--	T,G, 95	Irr	See log.
913	93.9	Apr. 3, 1943	C,W	P	
914	95.4	Dec. 12, 1945	T,0	Irr	
915	--	--	T,G, 85	Irr	Casing perforated bottom 100 feet. Pump: 3-stage, 8-inch, set at 120 feet.
916	101.1	Dec. 10, 1945	T,0	Irr	
917	100	dc.	T,G, 85	Irr	
918	d/90.0	--	T,G, 85	Irr	Casing: 208 feet, perforated below water level. Pump: 3-stage, 12-inch, set at
919	--	--	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 120 feet. See log.
920	--	--	T,G, 100	Irr	Do.
921	97.5	Nov. 23, 1945	None	N	Pump not set when visited.
922	--	--	T,G, 85	Irr	
923	--	--	T,G, 85	Irr	Pump set at 90 feet with 10 feet of suction.
924	99.7	Dec. 10, 1945	None	N	Pump not set when visited.
925	--	--	T,G	Irr	See log.
926	--	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 130 feet with 10 feet of suction.
927	--	--	T,G	Irr	Pump set at 100 feet.
928	--	--	T,G, 85	Irr	
929	93	Mar. 30, 1943	T,G, 85	Irr	
930	--	--	T,G, 85	Irr	Pump: 2-stage, 12-inch, set at 120 feet with 10 feet of suction.
931	--	--	T,-	Irr	Do.
932	93.1	Mar. 30, 1943	T,G, 93	Irr	Hole cased 170 feet, lower 100 feet open. Pump: 2-stage, 12-inch, set at 130 feet
933	97.1	Dec. 10, 1945	T,G	Irr	with 10 feet of suction.

Records of wells in Swisher County -- Continued

Well	Distance from Tullia	Owner	Driller	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.) a/
934	10 miles southwest	H. L. Adkins	Bud Gibbons	1943	--	--	--
935	9½ miles southwest	F. L. Lemley	Green Machinery Co.	1945	208	16	--
936	8½ miles southwest	do.	do.	1943	210	16	--
937	8 miles southwest	L. J. Knuckles	--	--	--	--	--
938	do.	Elisha Roper	--	1938	185	--	--
939	7½ miles southwest	E. M. Johnson	--	1945	233+	14	--
940	8 miles southwest	Raymond Walker	--	--	--	--	--
941	7½ miles southwest	E. R. Sorrenson	--	--	--	--	--
942	do.	Geo. W. Sayer	Bradford Supply Co.	1944	--	--	--
943	do.	L. J. Knuckles	W. O. Tye	1944	258	--	--
944	do.	Evelyn Stallings	Green Machinery Co.	1941	272	16	--
945	7 miles southwest	E. R. Sorrenson	Fish and Boyle	1945	220	14	--
946	do.	J. R. Fullingham	Jack McBride	1941	233	15	--
947	do.	Otis Harmon	Matt Kell	1944	243	14	--
948	6½ miles southwest	J. F. Whilsett	--	--	--	--	--
949	4½ miles southwest	C. W. Rousseau	Dosh Stallings	1943	200	16	--
950	5½ miles southwest	R. A. Weiss	--	--	221	14	--

a/ Measuring point was usually top of casing, top of wood pipe clamp, top of concrete pump foundation, or top of air-line hole in pump base.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline; Ng, natural gas; O, diesel or semi-diesel; W, windmill; H, Hand; number indicates horsepower.

Well	WATER LEVEL		Method of lift	Use of water	Remarks
	Below land surface (ft.)	Date of measurement			
934	--	--	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 120 feet with 10 feet of suction.
935	--	--	T,G	Irr	Do.
936	--	--	T,G, 90	Irr	Casing perforated below 64 feet. Pump: 3-stage, 12-inch set at 120 feet. See
937	--	--	T,G, 85	Irr	Estimated yield 800 gallons a log. minute.
938	--	--	T,G, 85	Irr	Not cased. Pump set at 115 feet with 10 feet of suction.
939	--	--	T,G	Irr	Pump: 3-stage, 12-inch, set at 140 feet with 10 feet of suction.
940	--	--	T,G	Irr	
941	--	--	T,G, 85	Irr	
942	--	--	T,G, 95	Irr	Pump: 3-stage, set at 120 feet.
943	--	--	T,G, 95	Irr	Pump: 4-stage, 10-inch, set at 130 feet with 10 feet of suction.
944	--	--	T,G, 95	Irr	Pump: 2-stage, 12-inch, set at 132 feet.
945	<u>d</u> /80.0	--	T,G, 85	Irr	Pump: 3-stage, 12-inch, set at 120 feet with 10 feet of suction.
946	<u>d</u> /85.0	--	T,G, 95	Irr	Pump: 3-stage, 12-inch, set at 140 feet with 10 feet of suction. See log.
947	<u>d</u> /83.0	--	T,G, 85	Irr	Casing: 146 feet of 14-inch gas pipe, bottom 76 feet perforated. Pump: 3-stage, 12-inch, set at 120 feet with 14
948	--	--	T,G, 85	Irr	feet of suction.
949	--	--	T,G	Irr	Casing: 168 feet of 16-inch, lower 80 feet perforated. Pump: 3-stage, set at
950	<u>d</u> /95.0	--	T,G	Irr	See log. 120 feet.

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

d/ Water level reported.

Table of drillers' logs, Swisher County, Texas

(Logs of wells 36, 108, 132, 302, 315, 345, and 370 are based on material taken from: Baker, C. L., Geology and underground waters of the Northern Llano Estacado: Univ. of Tex. Bull. 57, 1915.)

	Thickness (feet)	Depth (feet)
<u>Well 19</u>		
D. E. Armontrout, $9\frac{1}{2}$ miles northwest of Tulia.		
Formation unknown	92	92
Water sand	13	105
Sandy clay and gravel	67	172
White sand and some gravel	14	186
Sandy clay	14	200
River sand, gravel and shells	15	215
Red mud and gravel	9	224
Red beds		224

	Thickness (feet)	Depth (feet)
<u>Well 36</u>		
W. C. Cowan, $4\frac{1}{2}$ miles northwest of Tulia.		
Formation unknown	59	59
Sand rock and shale	41	100
Fine-grained hard sand	35	135
Hard rock	3	138
Packsand	7	145
Soft coarse-grained sand	40	185
Shale	4	189
Hard sand	15	204
Shale and sand rock	22	226

	Thickness (feet)	Depth (feet)
<u>Well 65</u>		
A. M. Currie, 14 miles northwest of Tulia.		
Soil	5	5
Red clay	10	15
Gravel	5	20
Yellow clay	35	55
Yellow sandy clay	30	85
Dry sand	10	95
Sand and gravel, water	79	174
Yellow sandy clay	4	178
Coarse-grained red sand, and gravel, water	17	195
Fine-grained caving sand, water	5	200
Red clay	5	205

	Thickness (feet)	Depth (feet)
<u>Well 83</u>		
W. C. Dinwiddie, 2 miles northwest of Tulia. F. L. Witt, driller.		
Soil	3	3
Red sand	7	10
Yellow clay	40	50
Caliche	12	62
Sand, water	11	73
Brown shale	42	115
Sand, water	10	125
Rocks	5	130
Sticky shale	37	167
Sand and gravel, water	4	171
Red clay	34	205

	Thickness (feet)	Depth (feet)
<u>Well 108</u>		
J. R. Richardson, $16\frac{1}{2}$ miles northeast of Tulia.		
Soil and clay	71	71
Hard rock	6	77
Hard sand	13	90
Soft rock	8	98
Sand	12	110
Gypsum rock	5	115
Hard rock	12	127
Sand rock	23	150
Soft rock	11	161
Yellow clay	8	169
Coarse-grained sand	35	204
Red clay	6	210

	Thickness (feet)	Depth (feet)
<u>Well 124</u>		
W. C. Watson, $10\frac{1}{2}$ miles east of Tulia.		
Formation unknown	30	30
White clay	6	36
White lime rock	4	40
Water sand	10	50
White chalky rock	10	60
Brown sand and gravel	30	90
Hard white flint	7	97
Brown sand and gravel	5	102

(Continued on next page)



Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 124 -- Continued</u>		
Brown clay	26	128
Sandy clay	46	174
Red gumbo, clay	6	180
Red sand and gravel	4	184
Red beds	4	188

<u>Well 132</u>		
H. M. Miller, 13 miles east of Tulia.		
Top soil	5	5
Red clay	25	30
Hard sand rock	2	32
Hard white rock	15	47
Soft white rock	3	50
Hard packsand	4	54
Hard flint rock	6	60
Coarse-grained gray water sand	4	64
Hard red sand rock	11	75
Ccarse-grained gray water sand	6	81
Lcose red water sand	5	86
Hard gray sand	3	89
Soft white clay	1	90
Packed gray water sand	5	95
Lcose red water sand	4	99
Hard gray sand rock	23	122
Lcose red water sand	35	157
Hard gray sand rock	6	163
Red clay	7	170
Hard packed gray water sand	14	184
Blue gumbo	2	186
Coarse-grained gray water sand	12	198
Red clay	2	200
Coarse-grained gray water sand	6	206
Hard sand rock	1	207
Coarse-grained gray water sand	4	211
Blue gumbo	3	214
Coarse-grained gray water sand	5	219
Hard red sand rock	10	229
Red clay	31	260

	Thickness (feet)	Depth (feet)
<u>Well 145</u>		
V. L. Yarbrough, 3 $\frac{3}{4}$ miles southeast of Tulia, Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Shale and clay	10	30
Sand and clay, dry	10	40
Boulders	5	45
Sand and boulders	15	60
Hard rock	10	70
Clay and boulders	5	75
Fine-grained sand and boulders	15	90
Sand and shale, streaks	10	100
Fine-grained clean sand	35	135
Shale and boulders	5	140
Fine-grained sand	5	145
Coarse-grained sand	10	155
Sand and river gravel	15	170
Red clay	10	180

<u>Well 149</u>		
J. W. Miller, 5 miles northeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	4	9
Sand, dry	6	15
Clay and shale	34	49
Rock	11	60
Shale	10	70
Sand	14	84
Clay	6	90
Rock	4	94
Clay and shale	36	130
Sand	25	155
Shale	18	173
Sand	25	198
Red beds	9	207

<u>Well 220</u>		
C. L. Gunter, 10 miles southeast of Tulia.		
Surface soil	3	3

(Continued on next page)

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 220 -- Continued</u>		
Caliche	9	12
Clay	21	33
Caliche rock	9	42
Hard lime rock	8	50
Water-bearing sandstone	8	58
Clay	7	65
Water sand	5	70
Clay	15	85
Water sand and gravel	5	90
Clay	22	112
Sandstone	8	120
Red beds	114	234

<u>Well 227</u>		
W. G. McDonald, 14 miles southeast of Tulia.		
Top soil	50	50
Sand and boulders	22	72
Yellow clay	43	115
Sand	21	136
Yellow and white clay	59	195
Sand and gravel	9	204

<u>Well 262</u>		
A. A. Blackerby, 20 miles southeast of Tulia. L. W. Francis, driller.		
Top soil	35	35
Caliche	3	38
Rock	30	68
Sand, water	12	80
Joint clay	5	85
Sandy clay	17	102
Hard red sand	13	115
Sand and caliche	65	180
Sand rock	20	200
River bed sand	44	244
Red beds	1	245

<u>Well 268</u>		
B. C. Stark, 18 $\frac{1}{2}$ miles southeast of Tulia. J. F. Davis, driller.		
Caliche, clay and rock	70	70
Sand, water	15	85
Red clay	8	93

	Thickness (feet)	Depth (feet)
<u>Well 268 -- Continued</u>		
Sand and water	47	140
Caliche and clay	41	181
Sand and gravel, water	15	196

<u>Well 270</u>		
Ira E. Wimp, 16 miles southeast of Tulia. W. J. Altman, driller.		
Soil	4	4
Caliche	12	16
Red clay	32	48
Sand, dry	12	60
White rock	2	62
Sand, water	29	91
Scapstone and shale	31	122
Red sand	12	134
Sand, water	17	151
Yellow clay	16	167
Red clay	4	171
Sand, water	11	182
Red clay	2	184
Sand, water	5	189
Red beds	4	193

<u>Well 272</u>		
W. A. Bodeker, 17 $\frac{1}{2}$ miles southeast of Tulia. Green Machinery Company, driller		
Top soil	3	3
Soft caliche	12	15
Packsand and clay	15	30
Caliche	20	50
Cap rock	10	60
Sand	12	72
Rock, streaks	6	78
Sand	12	90
Rock	8	98
Sand and rock	32	130
Sand and gravel streaks	20	150
Sand and rock streaks	50	200

<u>Well 275</u>		
S. A. Barrett, 18 $\frac{1}{2}$ miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Clay	15	20

(Continued on next page)

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 275 -- Continued</u>		
Sand, dry	15	35
Clay and shale	15	50
Clay	5	55
Rock	2	57
Caliche rock	8	65
Sand, water	15	80
Sand	10	90
Soft clay	5	95
Clay and shale	15	110
Hard shale and clay	10	120
Sand	20	140
Sand and shale	15	155
Clay	10	165
Sand	5	170
Sand and hard shale	15	185
Sand and gravel	27	212
Sand and gravel	12	224

<u>Well 282</u>		
R. M. Francis, 14 miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	20	25
Shale	10	35
Sand, dry	10	45
Hard shale	20	65
Rock	10	75
Sand and shale	15	90
Sand and boulders	25	115
Soft running sand (suitcase)	20	135
Coarse-grained sand and shale	30	165
Hard shale	15	180
Red beds	2	182

<u>Well 284</u>		
Geo. Buchanan, 15 miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Clay	15	35
Clay and loose rock	23	58
Hard rock	4	62
Hard shale and clay	8	70
Sand	7	77
Hard shale	3	80

	Thickness (feet)	Depth (feet)
<u>Well 284 -- Continued</u>		
Clay and shale	15	95
Clay and shale rock	5	100
Tight sand, shale	25	125
Sand and boulders	15	140
Hard shale and sand	15	155
Sand	15	170
Sand and gravel	38	208

<u>Well 290</u>		
W. B. Weathered, 12 miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Shale and clay	15	35
Shale and sand, dry	10	45
Rock	5	50
Sand and shale	10	60
Rock	5	65
Clay and boulders	10	75
Sand	5	80
Rock	5	85
Fine-grained sand	15	100
Blue clay	10	110
Sand and gravel	35	145
Sand and shale	30	175
Sand and gravel	15	190
Yellow clay	5	195

<u>Well 292</u>		
J. M. Hill, 10½ miles southeast of Tulia. F. L. Witt, driller.		
Soil	3	3
Yellow clay	13	16
White sand	3	19
Red sand	31	50
Caliche	9	59
Sand, water	8	67
Brown shale	53	120
Sand, water	3	123
Brown shale	28	151
Sand, water	4	155
Yellow clay and rock	5	160
River bed gravel	13	173
Red beds	2	175

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 293</u>		
C. D. Rush, 10 miles southeast of Tullia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Sand, dry	20	40
Sand and boulders, dry	10	50
Rock	5	55
Sandy, dry	10	65
Shale and clay	5	70
Rock and boulders	15	85
Sand and some boulders	10	95
Coarse-grained sand	15	110
Coarse-grained sand and gravel	5	115
Clay and boulders	10	125
Clay	5	130
Sand and gravel	15	145
Clay and shale	15	160
Sand and gravel	15	175
Clay	5	180

	Thickness (feet)	Depth (feet)
<u>Well 302</u>		
Marshall Vaughn, 1 $\frac{1}{4}$ miles southwest of Tullia.		
Formation unknown	54	54
Hard rock	8	62
Soft yellow sand	31	93
Hard rock	3	96
Coarse-grained yellow sand	69	165
Sand rock	7	172
Hard rock	5	177
Red clay	56	233

	Thickness (feet)	Depth (feet)
<u>Well 315</u>		
F. J. Vannerson, 6 $\frac{1}{2}$ miles southeast of Tullia.		
Soil	4	4
Red clay	17	21
Gray sand	35	56
Water sand	4	60
Coarse-grained sand	20	80
Gray water sand	20	100
Hard packsand	105	205

	Thickness (feet)	Depth (feet)
<u>Well 333a</u>		
J. W. Dines, 9 miles south of Tullia.		
Top soil	58	58
Dry sand	6	64
Sand and boulders	10	74
Soft sand	26	100
Sand rock	12	112
Soft sand	9	121
Packsand	62	183
Sand and gravel	7	190
Hard rock	4	194
Red clay	1	195

	Thickness (feet)	Depth (feet)
<u>Well 334</u>		
H. Sands, 10 $\frac{1}{2}$ miles south of Tullia.		
Top soil	3	3
Caliche (clay and rock)	10	13
Yellow clay	20	33
Red clay	10	43
Red sand and clay	20	63
Red sand, water	20	83
White sand, water	20	103
Red sand and caliche rock	20	123
Pink sand	20	143
Packsand and clay	40	183
Layered red clay and spongy sand	40	223
Gray sand	16	239
Spongy sand with spots of sandstone	2	241

	Thickness (feet)	Depth (feet)
<u>Well 345</u>		
P. G. Wimberley, 10 miles south of Tullia.		
Formation unknown	50	50
Rock	12	62
Soft sand	4	66
Sand and rock	29	95
Soft sand	42	137
White clay	8	145
White sand	25	170
Gravel	16	186
Red clay	50	236

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 370</u>		
Texas Land and Development Company, 14 $\frac{1}{2}$ miles south of Tulia.		
Top soil	3	3
Clay and chalk	3	6
Clay	12	18
Shale, rock	3	21
Shale	6	27
Clay	7	34
Shale	3	37
Shale, rock	5	42
Clay	9	51
Shale	11	62
Clay	4	66
Water sand	6	72
Lime rock and boulders	6	78
Lime rock	3	81
Shale	6	87
Clay	11	98
Shale	9	107
Soft sandstone, water	8	115
Shale	7	122
Shale, rock	9	131
Water sand	8	139
Sandstone, water	8	147
Shale	7	154
Sandstone, water	13	167
Shale	9	176
Sandstone, water	14	190
Lime rock, sandstone and boulders	6	196
Sandstone and boulders	2	198
Shale	43	241
Shale, rock	22	263
Clay	8	271
Shale, rock	9	280
Shale	7	287
Shale, rock	11	298
Shale	13	311
Shale, rock	3	314
Lime rock	4	318
Shale, rock	18	336
Shale	5	341
Shale, rock	7	348

Well 376

H. F. Artell, 12 $\frac{1}{2}$  miles south of Tulia.

Formation unknown	45	45
Dry sand	31	76

	Thickness (feet)	Depth (feet)
<u>Well 376 -- Continued</u>		
Flint rock	3	79
Caliche and boulders	61	140
Water sand	3	143
Caliche	43	186
Water sand	4	190
Red beds	98	288
Water sand	2	290
Red beds	97	387
Water sand	3	390
Blue clay	10	400

Well 387

A. G. Williamsen, 15 $\frac{1}{2}$  miles southeast of Tulia. Green Machinery Company, driller.

Top soil	5	5
Caliche	7	12
Clay and shale	37	49
Rock	18	67
Shale	10	77
Sand	12	89
Rock	4	93
Sand and boulders	27	120
Rock	6	126
Clay	15	141
Sand and boulders	45	186
Rock	3	189
Clay	1	190

Well 392

C. M. Light, 15 miles southeast of Tulia. Carl Mangum, driller.

Top soil	3	3
Caliche	32	35
Brown clay, "rocky"	30	65
Fine-grained sand	15	80
Soft rock	5	85
Clay	10	95
Fine-grained sand	47	142
Sand and rocks	43	185
Clay and rocks	20	205
Coarse-grained sand	23	228

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 395</u>		
E. C. Pyle, 14 miles south of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	10	15
Sandy clay	20	35
Sand, dry	17	52
Clay and shale	8	60
Sand	14	74
Shale	12	86
Sand	26	112
Clay	6	118
Sand	33	151
Shale	13	164
Sand	16	180
Shale and sand	12	192
Rock	4	196
Sand	9	205
Red beds		205

	Thickness (feet)	Depth (feet)
<u>Well 397</u>		
S. L. Maples, 14 miles south of Tulia. Jan Pate, driller.		
Soil	3	3
Yellow clay	35	38
Sand and clay	7	45
Sand, dry	25	70
Rock	2	72
Sand	17	89
White clay and sand	9	98
White clay	6	104
Rock	2	106
Sand	10	116
Red clay and sand	3	119
Red clay	54	173
White clay and packsand	5	178
Sand	18	196
White clay and packsand	70	266
Coarse-grained sand	14	280
Blue clay	1	281

	Thickness (feet)	Depth (feet)
<u>Well 398</u>		
Mrs. J. W. Ray, 15 miles south of Tulia. Green Machinery Company, driller.		
Top soil	6	6
Caliche	26	32
Sand	22	54

	Thickness (feet)	Depth (feet)
<u>Well 398 -- Continued</u>		
Clay and shale	16	70
Shale	14	84
Sand	30	114
Rock	2	116
Sand	19	135
Shale	45	180
Fine-grained sand	38	218
Coarse-grained sand	38	256
Sand, gravel and rock	10	266

	Thickness (feet)	Depth (feet)
<u>Well 433</u>		
E. E. Cox, 9½ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	4	4
Brown clay and rocks	46	50
Red sand	10	60
Red clay	22	82
Rock	4	86
Sand and boulders	22	108
Clay and rocks	12	120
Sand and white rocks	85	205
Hard rock	4	209
Sand and boulders	31	240
Hard rock	5	245
Sand	2	247
Hard rock	8	255
Clay	4	259
Red beds	6	265

	Thickness (feet)	Depth (feet)
<u>Well 442</u>		
Peter Barbian, 12 miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Clay	30	35
Sand, dry	30	65
Clay and shale	15	80
Clay and hard shale	10	90
Sand, water	5	95
Sand	15	110
Clay and rock	15	125
Sand	15	140
Sand and shale	15	155
Sand and gravel	45	200

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 444</u>		
Fred Graham, 12 miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Sand dry	15	35
Clay and loose rock	25	60
Sand	20	80
Clay	20	100
Rock	1	101
Sand	69	170
Sand and gravel	38	208

	Thickness (feet)	Depth (feet)
<u>Well 446</u>		
M. A. Patton, 13½ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	4	4
Caliche	16	20
Sand, dry	12	32
Shale and clay	8	40
Shale	6	46
Coarse-grained shale	26	72
Clay	8	80
Rock	4	84
Sand	20	104
Hard boulders	8	112
Sand and boulders	22	134
Clay	36	170
Sand and boulders	14	184
Sand	61	245
Shale	7	252
Fine-grained sand	20	272

	Thickness (feet)	Depth (feet)
<u>Well 449</u>		
S. E. Curry, 14 miles southwest of Tulia. M. A. Patton, driller.		
Soil	5	5
Caliche	7	12
Clay	16	28
Rock	6	34
Clay	30	64
Sand, water	20	84
Rock	6	90
Sand, water	38	128
Rock	7	135
Clay	8	143
Sand, water	19	162

	Thickness (feet)	Depth (feet)
<u>Well 449 -- Continued</u>		
Rock	6	168
Clay	4	172
Rock	33	205
Clay	5	210
Gravel, water	30	240

	Thickness (feet)	Depth (feet)
<u>Well 451</u>		
S. E. Curry, 15½ miles southwest of Tulia. W. O. Tye, driller.		
Top soil	3	3
Pale red caliche	35	38
Yellow caliche	14	52
White clay and gravel	14	66
Red packsand	6	72
Red clay	14	86
Red sand and small gravel	45	131
Brown clay	6	137
Fine-grained red sand	30	167
Fine-grained red sand and small white gravel	29	196
Medium red sand	9	205
Heavy brown sand	21	226

	Thickness (feet)	Depth (feet)
<u>Well 453</u>		
Clifton Reed, 14 miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	10	15
Sand, dry	15	30
Sand and shale, dry	25	55
Sand, dry	25	80
Sand and shale	15	95
Rock	5	100
Sand	20	120
Sand and shale	10	130
Clay	10	140
Sand	5	145
Shale and clay	5	150
Rock	5	155
Sand and shale	15	170
Coarse-grained sand and boulders	32	202

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 458</u>		
R. F. Ormsby, 13 $\frac{1}{2}$ miles southwest of Tulia. Leo Koger, driller.		
Top soil	6	6
Red clay and sand	34	40
Red sand, dry	50	90
White clay	2	92
White sand, some water	2	94
Rock	1 $\frac{1}{2}$	95 $\frac{1}{2}$
Caliche and sand (little water)	5 $\frac{1}{2}$	101
White sand with clay	2	103
Red sand, water	17	120
Packsand	48	168

	Thickness (feet)	Depth (feet)
<u>Well 463</u>		
D. A. Alston, 16 $\frac{1}{2}$ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	3	3
Soft caliche	27	30
Hard sand, streaks of rock	30	60
Sand streaks	15	75
Clay and rocks	10	85
Packsand and rock streaks	25	110
Sand, clay and rocks	5	115
Fine-grained sand	25	140
Sand, some rock	10	150
Sand	12	162
Sand rock	4	166
Sand and boulders	4	170
Clay	5	175
Fine-grained sand	25	200
Fine-grained yellow sand	30	230

	Thickness (feet)	Depth (feet)
<u>Well 467</u>		
W. M. Kelley, 16 miles southwest of Tulia. J. W. Price, driller.		
Top soil	6	6
Caliche	12	18
Sand, dry	27	45
Sand rock	6	51
Sand, dry	16	67
Sand, water	7	74
Sand, clay	36	110
Sand and sand rock, dry	56	166
Sand, water	14	180

	Thickness (feet)	Depth (feet)
<u>Well 467 -- Continued</u>		
Sand rock	20	200
Clay and red shale	30	230
Gravel, water	22	252
Red clay	2	254

	Thickness (feet)	Depth (feet)
<u>Well 477</u>		
Fritz W. Mogford, 18 miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	8	8
Caliche	10	18
Sand, dry	14	32
Shale and clay	27	59
Sand	46	105
Clay	20	125
Sand	18	143
Sand and shale	39	182
Rock	4	186
Sand and gravel	17	203

	Thickness (feet)	Depth (feet)
<u>Well 487</u>		
Mrs. Ralph D. Perry, 16 $\frac{1}{2}$ miles southwest of Tulia. Burney Fish, driller.		
Surface	4	4
Red clay	16	20
Caliche rock and clay	55	75
Sand, water	15	90
White gravel and sand, water	30	120
Sand rock	3	123
Sand, water	28	151
Sand rock	3	154
White gravel and sand, water	54	208

	Thickness (feet)	Depth (feet)
<u>Well 490</u>		
O. Milber, 15 miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	10	15
Clay	20	35
Clay and loose rock	15	50
Sand, dry	15	65
Shale and rock	5	70
Sand	20	90
Clay and loose sand	5	95
(Continued on next page)		



Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 490 -- Continued</u>		
Sand	15	110
Sand and boulders	15	125
Sand	30	155
Sand and gravel	30	185

<u>Well 492</u>		
Omer Milber, 14½ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Soft clay	15	35
Clay and loose rock	15	50
Clay	15	65
Clay and rock	10	75
Sand	5	80
Sand and boulders	20	100
Hard shale and clay	10	110
Shale and clay	10	120
Sand	5	125
Fine-grained sand	40	165
Hard shale	5	170
Gravel	15	185

<u>Well 712</u>		
Mrs. Nell Southern, 9 miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Clay and shale	20	40
Broken rock and shale	25	65
Rock	8	73
Fine-grained sand	22	95
Coarse-grained sand and shale	10	105
Rock	15	120
Clay	10	130
Packsand	10	140
Very red clay	27	167

	Thickness (feet)	Depth (feet)
<u>Well 728</u>		
W. C. Young, 13 miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	10	15
Sand and rock, dry	10	25
Rock and clay	25	50
Sand and rock	13	63
Rock	4	67
Sand	13	80
Clay	15	95
Sand	20	115
Coarse-grained sand and gravel	10	125
Shale and sand	5	130
Fine-grained sand	7	137
Shale and flakey rock	13	150
Clay and shale	7	157
Coarse-grained sand and gravel	13	170
Boulders and rocks	12	182
Rock	2	184

<u>Well 733</u>		
L. L. Armor, 11½ miles southeast of Tulia. J. F. Davis, driller.		
Soil	3	3
Clay	47	50
Caliche	12	62
Sand, water	45	107
Red sand and some clay	25	132
Clay and caliche	28	160
Gravel and sand	10	170
White lime rock	10	180
Clay	3	183
Red beds	2	185

<u>Well 814</u>		
A. H. Jennings, 6 miles southeast of Tulia. Green Machinery Company, driller. (Continued on next page)		

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 814 -- Continued</u>		
Top soil	5	5
Clay	15	20
Joint clay and shale	15	35
Clay and rock	10	45
Sand	10	55
Hard rock	10	65
Yellow clay	15	80
Caliche rock	15	95
Sand and rock boulders	15	110
Sand	10	120
Clay and rock	10	130
Sand	10	140
Sand and boulders	15	155
Caliche rock	15	170
Sand and gravel	30	200

	Thickness (feet)	Depth (feet)
<u>Well 824</u>		
Progress Farm, 10 miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	6	6
Soft red caliche	34	40
Sand, dry	35	75
Rock	3	78
Sand	8	86
Hard rock	6	92
Fine-grained packsand	8	100
Rock	10	110
Packsand and gravel, streaks of sand	58	168
Coarse-grained sand, water	7	175
Sand and boulders	25	200
Sand and few boulders	30	230
Sand	25	255
Rock	1	256

	Thickness (feet)	Depth (feet)
<u>Well 829</u>		
Henry Evans, 11½ miles south of Tulia. L. W. Price, driller.		
Top soil	2	2
Red sandy clay	13	15
Sand, dry	15	30
Caliche rock	10	40
Dry sand	11	51
Hard sand rock	9	60
Yellow clay	10	70
Sand, water	15	85

	Thickness (feet)	Depth (feet)
<u>Well 829 -- Continued</u>		
Sand rock	14	99
Clay	16	115
Lime rock	3	118
Sand, water	21	139
Sand rock	7	146
Clay and rock	24	170
Sand and gravel, water	38	208
Clay	3	211

	Thickness (feet)	Depth (feet)
<u>Well 838</u>		
W. H. Crawford, 13 miles south of Tulia. R. D. Sawyer, driller.		
Soil	5	5
Caliche	35	40
Sandy clay	20	60
Soft sand	20	80
Hard lime rock	1	81
Broken sand and boulders	17	98
Sandy shale	7	105
Broken hard and soft sand	15	120
Soft sand - some boulders	15	135
Sand and sandy clay	13	148
Hard coarse-grained sand	7	155
Hard and soft sand	15	170
Shell rock	1	171
Boulders and soft sand	14	185
Hard and soft sand, shelly rock	13	198
Soft sand, some boulders	15	213
Limey sand	10	223

	Thickness (feet)	Depth (feet)
<u>Well 846</u>		
C. F. Harris, 12 miles south of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	20	25
Clay and boulders	25	50
Shale	10	60
Sand and shale	10	70
Clay and boulders	10	80
Sand	25	105
Sand and boulders	20	125
Clay	5	130
Sand and shale	35	165
Clay and boulders	15	180
Sand	30	210

(Continued on next page)

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 846 -- Continued</u>		
Red clay and shale	10	220
Blue clay	5	225
Red beds	5	230

<u>Well 850</u>		
T. S. Walker, $1\frac{1}{2}$ miles south of Tulia. Louis Francis, driller.		
Soil	4	4
Caliche	3	7
Red clay	15	22
Hard rock	2	24
Red clay	16	40
Red sand	10	50
Red and white sand	22	72
Red and white rock	3	75
Sand	6	81
Rock	5	86
Clay and caliche	61	147
Caliche	21	168
Sand, water	2	170
Rock	2	172
Clay and caliche	8	180
Gravel and sand	20	200
Blue clay	2	202
Red beds	1	203

<u>Well 857</u>		
M. J. Coppock, $8\frac{1}{2}$ miles south of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	17	22
Sand, dry	22	44
Clay	16	60
Shale	5	65
Rock	3	68
Fine-grained sand	27	95
Coarse-grained sand	60	155
Sand and shale	17	172
Sand and gravel	24	196
Red beds	6	202

	Thickness (feet)	Depth (feet)
<u>Well 860</u>		
David Wimberly, 10 miles southeast of Tulia.		
Sand and caliche	50	50
Sand rock	15	65
Sand, water	23	88
Rock	6	94
Sand, water	23	117
White sand	26	143
Lime rock	7	150
Sand, water	45	195
Red beds	2	197

<u>Well 865</u>		
Mrs. Anna Ballengee, 12 miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	3	3
Caliche	22	25
Yellow sand, dry	30	55
Soft rock	3	58
Gray sand	22	80
Soft rock	15	95
Hard rock	5	100
Gray rock	40	140
Rocky streaks	15	155
Sand, water	15	170
Hard rock	3	173
Chalk rock, sand	27	200
Clay	10	210
Red beds and blue clay	20	230

<u>Well 869</u>		
W. H. Rollow, $9\frac{1}{2}$ miles southeast of Tulia. W. J. Altman, driller.		
Soil	4	4
Red clay	41	45
Sand mixed with clay, water	75	120
White clay	20	140
Sand with clay	45	185
Red beds	7	192

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 876</u>		
L. B. Ferguson, 6 miles southeast of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	4	9
Clay and shale	41	50
Sand	5	55
Rock	16	71
Sand	12	83
Rock	4	87
Sand	17	104
Rock	11	115
Sand	30	145
Clay	2	147

	Thickness (feet)	Depth (feet)
<u>Well 901</u>		
Ellis Stewart, 10 $\frac{1}{2}$ miles west of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Clay	15	35
Hard shale and clay	15	50
Shale and clay	15	65
Sand, dry	25	90
Hard shale	5	95
Sand, water	15	110
Sand	5	115
Hard clay and shale	15	130
Hard rock	5	135
Sand	65	200
Coarse-grained sand and gravel	20	220
Clay	5	225

	Thickness (feet)	Depth (feet)
<u>Well 903</u>		
G. W. Dunn, 8 miles southwest of Tulia. W. J. Altman, driller.		
Soil	4	4
Caliche	12	16
Sandy clay	56	72
Sand, dry	22	94
Red clay	5	99
Sand, water	19	118
Rock	1	119
Soapstone and sand	26	145
Sand, water	23	168

	Thickness (feet)	Depth (feet)
<u>Well 903 -- Continued</u>		
Red clay	4	172
Sand, water	27	199
Soapstone and clay	3	202

	Thickness (feet)	Depth (feet)
<u>Well 907</u>		
R. T. O'Daniel, 12 $\frac{1}{2}$ miles southwest of Tulia. Davis and Greene, driller.		
Red sand	60	60
Sand, water	20	80
Hard sand	15	95
Sand, water	45	140
Caliche	25	165
Sand, water	45	210

	Thickness (feet)	Depth (feet)
<u>Well 909</u>		
Harold Rouser, 13 $\frac{1}{2}$ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	10	15
Clay	20	35
Rock and clay	15	50
Clay and shale	15	65
Coarse-grained sand, water	20	85
Rock and sand	10	95
Hard rock	10	105
Clay and rock boulders	20	125
Sand	15	140
Sand, water	60	200
Rock		200

	Thickness (feet)	Depth (feet)
<u>Well 912</u>		
F. O. Burke, 13 $\frac{1}{2}$ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Shale and clay	20	40
Sand, dry	30	70
Sand	35	105
Rock and boulders	10	115
Sand	45	160
Coarse-grained sand and boulders	25	185
Coarse-grained sand	15	200
Sand and boulders	8	208

Table of drillers' logs, Swisher County -- Continued

	Thickness (feet)	Depth (feet)
<u>Well 918</u>		
B. O. Burke, Jr., 12 $\frac{1}{2}$ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	20	25
Sand and shale, dry	10	35
Clay and shale	10	45
Sand and shale, dry	20	65
Sand and shale	10	75
Soft cavey sand	20	95
Rock	10	105
Sand boulders	20	125
Clay boulders	10	135
Sand and clay	10	145
Sand and shale	15	160
Sand boulders	20	180
Soft cavey sand	20	200
Sand boulders	5	205
Clay	6	211

	Thickness (feet)	Depth (feet)
<u>Well 925</u>		
O. P. Mercer, 10 $\frac{1}{2}$ miles southwest of Tulia. Green Machinery Company, driller.		
Caliche	20	20
Hard clay	15	35
Clay	15	50
Clay and rock	10	60
Sand and shale	5	65
Brown sand and shale	15	80
Sand and shale	5	85
Clay and rock	8	93
Hard rock	2	95
Loose rock and clay	13	108
Sand	17	125
Sand and shale	15	140
Heavy gravel	29	169
Rock	2	171
Sand	14	185
Sand and gravel	15	200

	Thickness (feet)	Depth (feet)
<u>Well 936</u>		
F. L. Lemley, 8 $\frac{1}{2}$ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	5	5
Caliche	15	20
Clay and shale	10	30
Sand, dry	30	60
Clay and shale	10	70

	Thickness (feet)	Depth (feet)
<u>Well 936 -- Continued</u>		
Sand, water	15	85
Sand and boulders	15	100
Rock and boulders	5	105
Sand and shale	15	120
Rock	5	125
Clay and boulders	5	130
Sand and boulders	30	160
Coarse-grained sand and boulders	50	210

	Thickness (feet)	Depth (feet)
<u>Well 946</u>		
John R. Willingham, 7 miles southwest of Tulia. Burney Fish, driller.		
Top soil	4	4
Caliche	4	8
Packsand	84	92
Sand, water	8	100
Brown sand	20	120
Sandy shale	38	158
Sand, water	6	164
Packsand	36	200
Sand and gravel, water	20	220
Packsand	10	230
Red clay	3	233

	Thickness (feet)	Depth (feet)
<u>Well 950</u>		
R. A. Weiss, 5 $\frac{1}{2}$ miles southwest of Tulia. Green Machinery Company, driller.		
Top soil	3	3
Yellow clay	11	14
Rock	1	15
Yellow clay	3	18
Dry sand	62	80
Loose rock	4	84
White clay	6	90
Rock	5	95
Sand and gravel	19	114
Rock	1	115
White clay	3	118
Rock	1	119
Packsand	59	178
Water sand	6	184
White clay and sand	21	205
Sand	16	221

Water levels, Swisher County, Texas

Water levels in observation wells in Swisher County, in feet below measuring point.

(Owner, distance and direction of well from County Courthouse at Tulia and height of measuring point above land surface.)

Well 2

Mrs. L. Irlbeck; 12 $\frac{1}{4}$ miles northwest of Tulia; 0.6 foot above land surface.	
July 26, 1937	78.54
Aug. 10	78.57
Sept. 13	78.53
Jan. 10, 1938	78.38
Apr. 20	78.46
Sept. 14	78.56
Dec. 13	78.61
Mar. 7, 1939	78.32
June 28	78.40
Dec. 30	78.37
Mar. 14, 1940	78.39
Nov. 7	78.58
Mar. 12, 1941	78.57
Dec. 22	78.48
Feb. 18, 1942	78.45
July 27	78.33
Nov. 5	78.33
Feb. 3, 1943	78.25
Feb. 10, 1944	78.30
Feb. 20, 1945	78.27
Feb. 25, 1946	78.24

Well 16 -- Continued

Jan. 10, 1938	61.62
Apr. 20	61.87
June 11	61.89
Sept. 14	61.59
Dec. 13	61.76
Mar. 7, 1939	61.73
June 28	61.84
Dec. 30	61.96
Mar. 14, 1940	62.09
Nov. 7	62.80
Jan. 10, 1941	62.32
Mar. 12	62.44
May 31	62.32
July 25	61.72
Dec. 22	61.20
Feb. 18, 1942	61.30
July 27	61.32
Nov. 5	61.65
Feb. 3, 1943	61.02
Feb. 10, 1944	61.17
Feb. 20, 1945	61.27
Feb. 25, 1946	62.48

Well 3A

W. E. Williamson, 14 miles northwest of Tulia; 0.5 foot above land surface.	
June 11, 1938	99.96
Sept. 14	99.87
Dec. 13	99.86
Mar. 7, 1939	99.87
June 28	99.90
Dec. 30	99.91
Mar. 14, 1940	99.96
Nov. 7	100.00
Mar. 12, 1941	100.09
Dec. 22	100.16
Feb. 18, 1942	100.17
July 27	100.00
Nov. 5	100.07
Feb. 3, 1943	Pumping
Feb. 25, 1946	Pumping

Well 36

W. C. Cowan, 4 $\frac{1}{2}$ miles northwest of Tulia; 3.5 feet above land surface.	
Apr. 20, 1934	57.53
June 5, 1937	59.30
Nov. 7, 1940	60.43
Mar. 12, 1941	60.34
Feb. 26, 1942	58.34
Nov. 5	57.70
Feb. 3, 1943	57.38
Feb. 10, 1944	57.20
Feb. 20, 1945	57.74
Feb. 25, 1946	59.14

Well 37

Mrs. M. Johnson, 3 $\frac{3}{4}$ miles northwest of Tulia; 1.0 foot above land surface.	
Sept. 13, 1937	63.67
Apr. 20, 1938	64.18
Sept. 14	63.91
Mar. 7, 1939	64.06
Mar. 14, 1940	64.90
Nov. 7	65.82
Mar. 12, 1941	65.97
Feb. 26, 1942	65.20

(Continued on next page)

Well 16

Clyde Bradford, 7 miles north of Tulia; 0.1 foot above land surface.	
July 26, 1937	61.48
Aug. 10	61.45
Sept. 13	61.51

Well 37 -- Continued

Nov. 5, 1942	64.55
Feb. 3, 1943	64.42
Feb. 10, 1944	63.97
Feb. 25, 1946	65.11

Well 38

Mrs. M. Johnson,  $3\frac{1}{2}$  miles northwest of Tulia; 0.3 feet above land surface.

Sept. 13, 1937	55.32
Jan. 10, 1938	55.38
Apr. 20	55.41
Mar. 7, 1939	55.95
Mar. 14, 1940	56.32
Nov. 5, 1942	55.40
Feb. 3, 1943	55.31
Feb. 10, 1944	54.29
Feb. 20, 1945	54.99
Feb. 25, 1946	56.73

Well 50

-- ,  $\frac{3}{4}$  mile northeast of Tulia; 0.3 foot above land surface.

July 16, 1937	61.02
Aug. 10	61.04
Sept. 13	60.97
Apr. 20, 1938	61.03
June 11	61.08
Mar. 7, 1939	61.28
July 1	61.57
Dec. 30	61.82
Nov. 7, 1940	62.31
Mar. 18, 1941	62.69
Feb. 3, 1943	61.10
Feb. 25, 1946	58.85

Well 108

J. R. Richardson,  $16\frac{1}{2}$  miles northeast of Tulia; 4.1 feet above land surface.

Apr. 20, 1934	74.76
Nov. 29, 1937	75.62
May 6, 1943	75.61
Feb. 22, 1945	76.34
Feb. 26, 1946	77.58

Well 115

W. W. Parker, 9 miles northeast of Tulia; 1.5 feet above land surface.

Nov. 15, 1937	58.88
May 28, 1943	58.28
Feb. 22, 1945	62.90
Feb. 25, 1946	60.64

Well 127

W. B. Ballard, 11 miles east of Tulia; 1.7 feet above land surface.

Nov. 26, 1937	54.08
May 15, 1943	54.77
Feb. 22, 1945	59.21
Feb. 25, 1946	55.11

Well 139

E. B. McCra, 5 miles northeast of Tulia; 1.6 feet above land surface.

May 29, 1943	51.90
Feb. 22, 1945	54.33
Feb. 26, 1946	52.61

Well 165

W. L. Pevehouse, 16 miles northeast of Tulia; 1.6 feet above land surface.

May 6, 1943	80.96
Feb. 22, 1945	79.74
Feb. 26, 1946	81.48

Well 167

Allen Johnson, 13 miles northeast of Tulia; 1.0 foot above land surface.

Nov. 26, 1937	53.45
May 6, 1943	54.22
Feb. 22, 1945	54.16
Feb. 26, 1946	55.87

Well 215

H. L. Lutz,  $11\frac{1}{2}$  miles southeast of Tulia; 1.2 feet above land surface.

Nov. 10, 1937	53.91
June 30, 1943	55.55
Feb. 26, 1946	60.12

Well 231

L. L. Arms,  $13\frac{1}{2}$  miles southeast of Tulia; 1.5 feet above land surface.

Nov. 8, 1937	52.89
June 30, 1943	68.98
Feb. 14, 1944	62.13
Feb. 22, 1945	63.62
Feb. 26, 1946	64.75

Well 255

H. H. Hicks, 14 miles southeast of Tulia; 1.9 feet above land surface.

May 12, 1937	43.43
June 9	43.06

(Continued on next page)

Water levels, Swisher County -- Continued

Well 255 -- Continued

July 24, 1937	42.71
Aug. 10	42.82
Aug. 26	42.94
Sept. 14	42.97
Oct. 4	42.85
Nov. 1	42.85
Dec. 3	42.99
Jan. 5, 1938	43.13
Mar. 11	43.38
Apr. 9	43.65
May 27	43.57
June 27	43.64
Aug. 12	43.73
Oct. 19	44.39
Nov. 15, 1940	46.99
Jan. 16, 1941	46.32
Mar. 10	46.31
July 25	45.86
Dec. 22	45.01
Feb. 26, 1942	44.94
Nov. 7	45.85
Feb. 2, 1943	45.65
Feb. 14, 1944	46.94
Feb. 22, 1945	48.20
Feb. 26, 1946	49.47

Well 258

Mrs. A. G. Hinn, 17 miles southeast of Tulia; 0.5 foot above land surface.

May 6, 1936	51.06
June 9, 1937	51.73
Jan. 4, 1938	52.15
Apr. 9	52.10
May 27	52.76
June 27	52.70
Dec. 8	52.51
Jan. 6, 1939	52.50
Feb. 28	52.48
Oct. 3	54.02
Mar. 5, 1940	53.75
Nov. 15	55.07
Jan. 16, 1941	54.97
July 25	54.81
Dec. 22	54.76
Feb. 26, 1942	54.62
Feb. 2, 1943	54.71
Feb. 14, 1944	55.60
Feb. 22, 1945	56.95
Feb. 26, 1946	58.87

Well 299

E. V. Elkins, 7 miles southeast of Tulia; 1.2 feet above land surface.	
June 30, 1943	47.22
Feb. 22, 1945	45.74
Feb. 26, 1946	45.20

Well 301

Ray Bivens,  $\frac{3}{4}$  mile southwest of Tulia,  
0.2 foot above land surface.

July 24, 1937	31.41
Aug. 10	31.58
Sept. 13	31.92
Jan. 10, 1938	32.21
Apr. 20	32.40
June 11	32.48
Sept. 14	32.38
Dec. 13	32.66
Mar. 7, 1939	32.40
June 28	32.20
Oct. 3	32.60
Dec. 30	32.89
Mar. 14, 1940	33.01
Nov. 7	33.36
Mar. 12, 1941	33.46
May 31	32.65
July 25	30.83
Dec. 22	30.02
Feb. 26, 1942	30.40
Nov. 6	30.97
Feb. 3, 1943	31.05
Feb. 10, 1944	32.28
Feb. 20, 1945	33.06
Feb. 27, 1946, Well filled and abandoned	

Well 302

Marshall Vaughn,  $1\frac{1}{2}$  miles southwest of Tulia; 5.0 feet above land surface.

Apr. 20, 1934	67.74
Nov. 17, 1937	69.14
Mar. 7, 1939	68.66
June 28	68.89
Oct. 3	68.56
Dec. 30	69.40
Mar. 14, 1940	69.10
Nov. 7	70.75
Mar. 12, 1941	69.71
Dec. 22	68.10
Nov. 5, 1942	68.31
Feb. 3, 1943	68.16
Feb. 10, 1944	68.77
Feb. 20, 1945	69.17
Feb. 27, 1946	70.04



Water levels, Swisher County -- Continued

Well 305

J. L. Cantrell,  $1\frac{3}{4}$  miles southeast of Tulia; 0.6 foot above land surface.

Aug. 10, 1937	37.57
Sept. 13	37.82
Jan. 10, 1938	37.71
Apr. 20	37.59
June 11	37.32
Sept. 14	37.98
Dec. 13	38.00
Dec. 30, 1939	38.18
Mar. 14, 1940	38.06
Mar. 12, 1941	38.44
Dec. 22	37.66
Nov. 6, 1942	37.80
Feb. 3, 1943	38.14
Feb. 22, 1945	39.53
Feb. 26, 1946	39.44

Well 332 -- Continued

Mar. 1, 1939	63.16
June 24	70.78
Aug. 16	81.58
Oct. 3	72.70
Dec. 30	65.28
Mar. 5, 1940	64.35
Jan. 16, 1941	72.23
Mar. 10	69.22
Dec. 22	68.32
Feb. 26, 1942	68.32
Nov. 6	65.15
Feb. 3, 1943	64.69
Feb. 9, 1944	67.44
Feb. 20, 1945	66.79
Feb. 26, 1946	68.71

Well 354

Well 323

Curt Glenn,  $6\frac{1}{2}$  miles south of Tulia; 0.4 foot above land surface.

June 5, 1937	63.19
July 26	62.23
Aug. 10	63.32
Sept. 13	63.49
Jan. 17, 1938	63.84
Apr. 20	64.38
June 11	64.68
Sept. 14	65.09
Dec. 13	65.33
Mar. 7, 1939	65.27
June 24	65.53
Aug. 16	65.68
Mar. 5, 1940	66.72
Jan. 16, 1941	68.02
Mar. 10	67.97
July 26	67.87
Dec. 22	68.25
Nov. 6, 1942	67.75
Feb. 3, 1943	67.51
Feb. 9, 1944	68.20
Feb. 20, 1945	68.97
Feb. 27, 1946	70.18

Mrs. J. W. Skipworth, 12 miles south of Tulia; 0.4 foot above land surface.

May 12, 1936	61.59
June 15	61.63
May 12, 1937	61.92
June 9	61.94
July 26	61.99
Aug. 9	62.05
Sept. 13	62.12
Jan. 10, 1938	62.16
Apr. 9	62.17
June 24	62.21
Aug. 12	62.24
Oct. 19	62.28
Dec. 8	62.31
Jan. 6, 1939	62.32
Mar. 1	62.35
June 24	62.38
Aug. 16	62.40
Oct. 2	62.47
Dec. 30	62.57
Mar. 5, 1940	62.66
July 9	62.78
Nov. 7	63.00
Jan. 16, 1941	63.14
Mar. 10	63.24
July 25	63.34
Dec. 22	62.80
Feb. 27, 1942	62.60
Jan. 27, 1943	63.26
Feb. 9, 1944	64.06
Feb. 20, 1945	64.16
Feb. 27, 1946	65.09

Well 332

W. F. Kerr,  $7\frac{1}{2}$  miles south of Tulia; 1.2 feet above land surface.

June 5, 1937	64.77
Sept. 13	65.76
Jan. 10, 1938	60.69
Apr. 9	70.26
Oct. 19	65.31
Jan. 6, 1939	63.34

Water levels, Swisher County -- Continued

Well 359

E. E. Formway, 12 $\frac{1}{2}$  miles south of Tulia; 2.0 feet above land surface.

Dec. 1, 1937	75.68
Apr. 9, 1938	76.71
Oct. 19	78.11
Dec. 8	77.01
Feb. 28, 1939	77.05
June 24	77.40
Dec. 1	77.67
Mar. 5, 1940	77.34
Jan. 16, 1941	78.30
Mar. 10	78.15
Dec. 22	77.94
Feb. 27, 1942	77.72
Nov. 7	78.72
Jan. 27, 1943	78.01
Feb. 9, 1944	78.68
Feb. 20, 1945	79.45
Feb. 26, 1946	81.50

Well 368

T. L. and D. Company, 14 $\frac{1}{2}$  miles south of Tulia; at land surface.

May 4, 1936	73.99
June 15	73.63
May 21, 1937	74.88
June 10	74.40
Sept. 15	75.30
Jan. 5, 1938	74.07
Mar. 12	74.79
Apr. 9	74.82
May 27	74.97
June 27	74.82
Aug. 12	74.70
Dec. 8	74.71
Jan. 6, 1939	74.67
Mar. 1	74.61
Aug. 10	76.05
Oct. 2	76.64
Dec. 1	76.44
Jan. 12, 1940	76.25
Mar. 5	76.10
Nov. 15	78.17
Jan. 16, 1941	78.00
Mar. 10	77.93
July 25	78.69
Dec. 22	78.14
Feb. 26, 1942	77.90
Nov. 7	78.66
Jan. 27, 1943	78.18
Feb. 9, 1944	79.76
Feb. 20, 1945	81.00
Feb. 27, 1946	83.41

Well 370

T. L. and D. Company, 14 $\frac{1}{2}$  miles south of Tulia; 1.0 foot above land surface.

May 4, 1936	72.55
May 7	67.30
June 15	72.76
June 10, 1937	73.35
July 15	73.05
July 26	73.32
Aug. 9	73.39
Sept. 6,	73.91
Sept. 13	73.98
Jan. 10, 1938	73.17
Apr. 9	73.49
May 27	73.60
June 27	73.50
Aug. 12	73.49
Dec. 8	73.28
Jan. 16, 1939	73.32
Mar. 1	73.40
Aug. 10	73.87
Oct. 2	74.10
Dec. 1	74.24
Jan. 12, 1940	74.19
Mar. 5	74.11
Nov. 15	75.24
Jan. 16, 1941	75.27
Mar. 10	75.28
July 25	76.21
Dec. 22	76.03
Feb. 26, 1942	75.82
Nov. 7	77.19
Jan. 27, 1943	76.49
Feb. 9, 1944	78.55
Feb. 20, 1945	80.99
Feb. 27, 1946	82.48

Well 380

Joe Bontke, 14 $\frac{1}{2}$  miles south of Tulia; 0.3 foot above land surface.

May 6, 1936	54.50
May 3, 1937	54.55
June 10	54.50
Aug. 26	54.27
Sept. 14	54.31
Oct. 4	54.23
Nov. 1	54.11
Dec. 3	54.08
Jan. 5, 1938	54.21
Mar. 12	54.45
Apr. 9	54.44
May 27	54.50
Jan. 10, 1939	54.65
Feb. 28	54.75
Dec. 8	55.10

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Water levels, Swisher County -- Continued

Well 380 -- Continued

Mar. 5, 1940	55.20
Nov. 15	55.67
Jan. 16, 1941	55.60
Mar. 10	55.71
July 25	54.72
Feb. 22, 1945	56.35
Feb. 26, 1946	Filled and abandoned.

Well 383

T. L. and D. Company, 15 $\frac{1}{2}$  miles south of Tulia, 1.5 feet above land surface.

Apr. 18, 1934	72.21
May 4, 1936	74.57
Mar. 17, 1937	74.33
May 3	77.72
June 10	75.44
July 24	74.41
Aug. 10	78.06
Aug. 26	77.85
Sept. 14	75.59
Oct. 4	74.82
Nov. 1	74.26
Dec. 3	73.94
Jan. 5, 1938	73.66
Mar. 12	74.15
Apr. 9	74.39
May 27	74.45
June 27	73.73
Oct. 19	74.16
Dec. 8	73.79
Jan. 6, 1939	73.51
Feb. 28	73.27
Oct. 3	79.15
Dec. 8	75.25
Mar. 5, 1940	74.20
Nov. 15	76.84
Jan. 16, 1941	75.65
Mar. 10	75.21
July 25	77.25
Dec. 22	75.15
Feb. 26, 1942	75.02
Nov. 7	75.67
Jan. 27, 1943	74.74
Feb. 10, 1944	76.40
Feb. 22, 1945	77.82
Feb. 27, 1946	80.39

Well 407

F. M. Johnson, 7 $\frac{1}{2}$  miles southwest of Tulia; 2.0 feet above land surface.

-- --, 1944	100.87
Feb. 20, 1945	101.96
Feb. 26, 1946	106.53

Well 418

O. Milner, 15 miles southwest of Tulia; approximately 1.0 foot above land surface.

Oct. 6, 1937	75.73
July 15, 1943	76.62
Feb. 27, 1946	79.01

Well 421

A. W. Perryman, 19 $\frac{1}{2}$  miles southwest of Tulia; 0.8 foot above land surface.

June 14, 1938	63.51
Jan. 14, 1939	61.90
June 24	60.25
Jan. 17, 1941	62.87
July 26	61.49
Nov. 16, 1942	60.85
Jan. 27, 1943	60.22
Feb. 3, 1944	61.73
Feb. 20, 1945	62.09
Feb. 27, 1946	64.70

Well 729

Clifton Reed, 13 miles south of Tulia; with land surface.

Sept. 23, 1937	93.17
Oct. 2, 1939	96.04
Dec. 1	96.75
Mar. 5, 1940	95.38
Nov. 7	97.82
Jan. 17, 1941	96.34
Mar. 10	96.06
Dec. 22	96.54
Feb. 27, 1942	95.87
Nov. 7	96.54
Jan. 27, 1943	96.10
Feb. 9, 1944	97.11
Feb. 20, 1945	97.90
Feb. 27, 1946	100.47

Partial analyses of water from wells in Swisher County, Texas

Analyzed at The University of Texas under the direction of W. W. Hastings, Chemist, U. S. Department of the Interior, Geological Survey, and Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry. Results are in parts per million. Well numbers correspond to numbers in table of well records.

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
3	A. A. Fonken	102	July 16, 1937	342	-	-	-	268	64	20	-	a/	-
12	C. D. Taylor	72	July 24, 1937	399	-	-	-	305	50	50	-	a/	-
15	Mrs. H. C. George	99	do.	344	-	-	-	256	43	47	-	a/	-
17	Kaffir School	85	Dec. 2, 1937	330	55	21	44	293	36	30	-	a/	223
19	D. E. Armontrout	224	Oct. 28, 1937	269	56	24	12	244	39	18	-	a/	240
21	Childress School	105	Dec. 2, 1937	290	55	23	22	244	54	14	-	a/	234
35	W. C. Hulsey	245	Nov. 23, 1937	317	52	33	25	305	39	15	-	a/	265
38	Mrs. M. Johnson	65	Sept. 13, 1937	398	-	-	-	323	61	30	-	a/	-
53	City of Tulia	167	Dec. 2, 1937	-	-	-	-	-	39	20	-	a/	-
53	do.	167	Mar. 3, 1945	377	36	31	62	319	b/ 33	22	5.2	2.8	218
72	Otis Day	241	Dec. 10, 1945	293	40	29	16	276	b/ 10	11	-	1.0	219
82	Robert Little	162	Nov. 18, 1945	372	38	37	28	274	b/ 38	30	-	2.5	247
102	Union Hill School	80	Nov. 24, 1937	396	50	43	41	342	64	30	-	a/	301
104	Salem School	80	Nov. 29, 1937	338	42	40	34	317	43	18	-	a/	270
107	Vigo Park School	80	do.	287	44	33	18	244	47	25	-	a/	245
110	E. R. Sprawls	166	do.	465	44	34	88	403	82	19	-	a/	256
118	T. L. Parker	206	do.	352	47	36	40	342	43	14	-	a/	267
125	W. C. Watson	70	Nov. 26, 1937	355	-	-	-	287	54	28	-	a/	-
126	do.	52	do.	353	-	-	-	287	57	24	-	a/	-
131	Red Hill School	55	do.	353	52	32	38	305	57	24	-	a/	260
187	J. E. Sharp	-	Dec. 1, 1945	411	39	37	35	292	b/ 50	23	-	1.8	250
194	S. M. Rogers	-	Nov. 17, 1945	-	-	-	-	592	b/ 85	39	-	0	c/ 495
205	Wilkins School	48	Nov. 26, 1937	340	57	28	37	305	39	25	-	a/	257
208	Love School	55	Dec. 2, 1937	-	-	-	-	-	61	30	-	a/	-
216	L. R. Stringer	179	Nov. 10, 1937	311	56	30	24	323	22	20	-	a/	264
236	L. L. Armour	232	Nov. 9, 1937	337	32	46	38	348	29	16	-	a/	269
320	John R. Branhart	200	Dec. 2, 1937	322	50	33	31	342	25	15	-	a/	260
321	Mrs. H. W. Harrell	220	Nov. 4, 1937	311	59	36	11	336	25	15	-	a/	298
322	do.	216	Aug. 10, 1937	314	42	43	18	287	29	31	-	a/	281

a/ Less than 20 parts per million.

b/ By turbidity.

c/ Determined by soap method.

Partial analyses of water from wells in Swisher County -- Continued  
(Results are in parts per million)

Well	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Fluoride (F)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calc.)
324	Houston School	70	Dec. 3, 1937	348	64	43	5	268	54	50	-	a/	336
327	W. H. Lowe	240	Nov. 10, 1937	328	54	33	28	323	29	25	-	a/	270
332	W. F. Kerr	209	June 5, 1937	406	66	50	15	323	68	48	-	a/	371
337	J. R. Barnhart	90	Oct. 3, 1939	321	52	43	12	304	b/ 34	25	4.0	1.6	306
338	W. N. Crawford	190	Nov. 3, 1937	379	69	35	27	336	43	40	-	a/	317
353	Kress High School	65	Dec. 3, 1937	-	-	-	-	-	29	12	-	a/	-
359	E. E. Formway	220	Dec. 1, 1937	319	62	22	33	305	29	20	-	a/	243
361	L. Kennedy	202	Sept. 24, 1937	299	64	26	16	305	25	18	-	a/	266
402	Lakeview School	100	Dec. 3, 1937	391	76	34	22	299	64	48	-	a/	331
406	McGuire School	100	do.	-	-	-	-	-	-	13	-	a/	-
408	J. A. Ellis	202	Sept. 24, 1937	255	56	22	12	244	25	20	-	a/	229
410	E. E. Cox	167	Sept. 23, 1937	365	72	34	18	281	43	60	-	a/	321
414	M. C. Vineyard	200	do.	327	67	36	9	354	29	12	-	a/	318
429	C. Reed	198	do.	281	67	29	-	287	29	15	-	a/	288
462	F. C. Roper	200	Dec. 7, 1945	361	60	37	12	332	b/ 35	13	-	0	302
473	F. W. Mogford	200	do.	358	42	44	17	319	b/ 35	17	-	0	286
474	R. W. Nunn	200	do.	374	45	42	15	306	b/ 40	18	-	0.2	295
521	City of Happy	179	Mar. 6, 1945	329	47	27	29.9	283	b/ 26	10	2.0	13.0	228
702	Chas. T. Herring	200	Dec. 1, 1945	437	43	38	34	312	b/ 45	23	-	1.8	264
709	J. C. Johnson	179	Nov. 17, 1945	337	46	34	14	286	b/ 30	14	-	.2	255
823	E. P. Lipham	206	Nov. 21, 1945	305	49	27	5.5	261	b/ 10	14	-	1.8	234
922	W. T. Bagley	200	Nov. 23, 1945	361	35	41	30	305	b/ 35	23	-	1.8	256
935	F. L. Lemley	208	Nov. 22, 1945	332	41	28	42	303	b/ 39	19	-	1.8	218
948	J. F. Whilsett	-	Nov. 23, 1945	398	54	31	37	293	b/ 65	24	-	1.0	262

a/ Less than 20 parts per million.

b/ By turbidity.

c/ Determined by soap method.