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SWISHER COUNTY, TEXAS

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

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by

C. R. Bollett

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Prepared in cooperation with the United States Department of the Interior, Geological Survey, the Bureau of Industrial Chemistry of The University of Texas, and the Works Progress Administration.

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Austin, Texas  
Apr. 16, 1938

## SWISHER COUNTY, TEXAS

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### Introduction

by

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United States Department of the Interior  
Geological Survey

This release contains records of wells and pumping plants in Swisher County, Texas, together with tables of well logs, and well water analyses, and a map on which all the wells listed are shown, each well being given a number on the map corresponding to the number assigned to it in the well tables.

The records were obtained in the course of an investigation in the Texas High Plains comprising a part of state-wide studies of the ground-water resources of Texas by the State Board of Water Engineers in cooperation with the Geological Survey of the United States Department of the Interior. The field work was first started in 1934, a reconnaissance being made in that year covering parts of western Kansas and Oklahoma and eastern Colorado as well as the Texas Panhandle. That investigation was under the direction of C. V. Theis, Associate Geologist with the Geological Survey, and was made with an allocation of funds from the Administration of Public Works. In 1936 considerable data on irrigation from wells in different parts of the Texas High Plains including a part of Swisher County was obtained by engineers of the Resettlement Administration. The present investigation was started in the spring of 1937 with funds appropriated by the Texas Legislature and nearly equal amounts contributed by the Federal government.

Most of the records listed were obtained in September-December, 1937, by C. R. Follett, one of the engineers assigned to the present investigation. Some were contributed by the Resettlement Administration and a few were obtained in the reconnaissance investigation of 1934.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112, under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry of The University of Texas and E. W. Lohr, Chemist of the Quality of Water Division of the Geological Survey. This release was typed and assembled by typists employed on the Works Progress Administration project which is sponsored by the Texas Board of Water Engineers, the Geological Survey, and the Bureau of Industrial Chemistry.

The records serve as a guide to land owners and well drillers who need information regarding wells and pumping plants, the depth to ground water in different parts of the county and the quantity and quality of water yielded by wells. They afford a basis for the more intensive investigation that is now being carried on, the purpose of which, is to determine the distribution and extent of the available ground-water supplies and the safe yield of the underground reservoirs.

Thanks are due to the owners of wells and pumping plants in Swisher County who have given their cordial cooperation and assistance. Several well drillers and representatives of different pump companies also have contributed freely of their information.

## Records of wells in Swisher County, Texas

(All wells are drilled unless otherwise indicated in "Remarks" column.)

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
1	13 miles northwest	10, NW cor. NW $\frac{1}{4}$	M-6	Will Vaughan	E. R. Sprawls	Gentle slope	1936	203	18
2	12 $\frac{1}{2}$ miles northwest	63, NW cor. SW $\frac{1}{4}$	M-8	I. Irlbeck	—	Edge of lake	Old	94	6
3	12 miles north	63, NE cor. NE $\frac{1}{4}$	M-8	A. A. Fonkon	—	Gentle slope	1907	102	6
4	11 $\frac{1}{2}$ miles northwest	63, SE $\frac{1}{4}$ SE $\frac{1}{4}$	M-8	G. A. Life Ins. Co.	—	Edge of lake	—	95	—
5	do.	87, NW cor. NW $\frac{1}{4}$	M-8	County Road	—	do.	1937	78	6
6	12 miles north	48, SE $\frac{1}{4}$ NE	M-9	T. W. LaRoc	W. D. Witt	Ridge top	1937	200	18
7	11 $\frac{1}{2}$ miles north	49, NW $\frac{1}{4}$ NW $\frac{1}{4}$	M-9	do.	Sprawls & Miller	Gentle slope	1935	200	18
8	11 miles north	49, SE $\frac{1}{4}$ NW $\frac{1}{4}$	M-9	do.	do.	do.	1935	200	18
9	9 miles north	58, SW $\frac{1}{4}$ NE $\frac{1}{4}$	M-9	Fred Lamar	Truper Hall	Ridge top	1937	220	18
10	8 $\frac{1}{2}$ miles north	57, NE $\frac{1}{4}$ NW $\frac{1}{4}$	M-9	Dewitt Parker	Henry Patzig	do.	1937	217	18
11	9 miles north	51, SW cor. NW $\frac{1}{4}$	M-9	T. J. Avent	—	Slope	—	91	6
12	10 miles north	86, SE $\frac{1}{4}$ NE $\frac{1}{4}$	M-8	C. D. Taylor	—	Edge of lake	—	72	6
13	9 $\frac{1}{2}$ miles north	115, SW $\frac{1}{4}$ SW $\frac{1}{4}$	M-8	B. F. Smith	—	Level	Old	85	—
14	8 $\frac{1}{2}$ miles north	116, SE $\frac{1}{4}$ NE $\frac{1}{4}$	M-8	W. Bruening	—	Gentle slope	—	64	—
15	7 $\frac{1}{2}$ miles north	17, NW $\frac{1}{4}$ NE $\frac{1}{4}$	M-9	R. Simmons	—	Level	Old	99	6
16	7 miles northwest	117, SW $\frac{1}{4}$ SE $\frac{1}{4}$	M-8	—	—	Slope to draw	—	78	—
17	7 $\frac{1}{2}$ miles northwest	117, NE $\frac{1}{4}$ SW $\frac{1}{4}$	M-8	Kaffir School	—	do.	—	85	—
18	8 $\frac{1}{2}$ miles northwest	84, NE cor. NE $\frac{1}{4}$	M-8	H. C. George	—	Gentle slope	—	85	—
19	9 $\frac{1}{2}$ miles northwest	18, NW $\frac{1}{4}$ SW $\frac{1}{4}$	M-8	D. E. Armontrout	R. P. McDaniels	Ridge top	1937	224	14
20	11 $\frac{1}{2}$ miles northwest	11, SW cor. SW $\frac{1}{4}$	M-6	P. S. Claiborne	—	Gentle slope	1936	200	18
21	11 miles northwest	29, SE cor. SE $\frac{1}{4}$	M-6	Childress School	—	do.	—	105	—
22	12 $\frac{1}{2}$ miles northwest	53, NW $\frac{1}{4}$ SW $\frac{1}{4}$	M-6	Clarence Todd	— Hall	Ridge top	1937	230	18
23	12 miles west	65, NW $\frac{1}{4}$ SW $\frac{1}{4}$	M-6	W. C. Cowan	do.	do.	1937	203	18
24	11 $\frac{1}{2}$ miles west	65, NW $\frac{1}{4}$ SE $\frac{1}{4}$	M-6	do.	do.	do.	1937	217	21

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.

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
1	1.1	90.6	Oct. 18, 1937	T,G, 40	I	Irrigated 77 acres wheat and truck in 1937. Reported yield, 550 gallons a minute with 74 feet drawdown. Pump set at 164 feet. 12-inch casing from 168 to 188 feet.
2	0.6	78.5	July 26, 1937	—	N	
3	1.0	83.8	July 16, 1937	C,W	D,S	Strong supply reported. Estimated yield, 5 gallons a minute.
4	0.5	82.4	June 5, 1937	C,W	S	
5	0.0	72.6	Aug. 10, 1937	None	N	Drilled for seismograph work.
6	—	—	—	T,G, 85	I	Reported yield, 400 gallons a minute.
7	—	—	—	None	N	Reported very weak supply.
8	—	—	—	None	N	Reported yield, 300 gallons a minute.
9	0	76	d/	T,G, 85	I	Irrigated 30 acres feed in 1937. Reported yield, 700 gallons a minute. "Red Beds" at 220 feet. No casing.
10	1.5	76.7	Nov. 29, 1937	T,G, 85	I	Irrigated 70 acres feed in 1937. Reported yield, 600 gallons a minute. Pump set at 140 feet. 12-inch casing from 177 to 217 feet.
11	0.0	86.4	do.	C,W	N	
12	0.5	62.6	July 24, 1937	C,W	D,S	Permanent supply reported. Estimated yield, 4 gallons a minute.
13	2.7	77.7	July 26, 1937	None	N	
14	0.9	62.3	July 16, 1937	C,W	N	
15	0.5	72.4	July 24, 1937	C,W	D,S	
16	0.1	61.5	July 26, 1937	C,H	—	
17	—	—	—	C,W	P	
18	4.0	77.8	June 5, 1937	C,W	S	
19	—	—	—	T,G, 85	I	Estimated yield, 1,050 gallons a minute. Pump set at 140 feet. See partial log.
20	—	—	—	C,W	I	Reported drilled for irrigation well but could bail dry. Now irrigates small garden.
21	—	—	—	C,W	P	
22	1.4	103.8	Oct. 28, 1937	T,G, 50	I	Reported 46 feet drawdown pumping 750 gallons a minute. Sand and gravel from 210 to 226 feet. "Red Beds" at 228 feet. Irrigated 130 acres wheat and feed in 1937.
23	1.0	89.9	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 feet.
24	1.4	87.8	do.	None	N	Drilled for irrigation. Reported yield, 400 gallons a minute. "Red Beds" at 197 feet.

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

d/ Water level reported.

## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
25	9½ miles northwest	15, NW¼NE¼	M-6	P. E. Lindley	E. R. Sprawls	Ridge top	1936	213	18
26	8½ miles northwest	20, SW¼SW¼	M-8	D. A. Nix	R. P. McDanis	Gentle slope	1937	214	18
27	do.	20, NW¼SW¼	M-8	do.	do.	do.	1937	175	18
28	7½ miles northwest	30, SW¼NW¼	M-8	H. Allison	—	Ridge top	—	—	18
29	7 miles northwest	30, SW cor. NE¼	M-8	do.	—	Gentle slope	—	—	18
30	do.	30, NE¼NE¼	M-8	do.	—	do.	—	—	18
31	6½ miles northwest	71, NE¼NW¼	M-8	do.	Baker Pump Co.	Ridge top	1937	190	18
32	7 miles northwest	69, SW¼SE¼	M-8	A. C. Julian	Green Mch. Co.	do.	1935	240	18
33	6 miles northwest	31, NW¼SW¼	M-8	W. C. Hulsey	Buck Price	do.	1936	245	18
34	5½ miles northwest	80, NW¼NW¼	M-8	do.	do.	Gentle slope	1936	245	18
35	5 miles northwest	121, NW cor. NW¼	M-8	do.	do.	do.	1936	245	18
36	4½ miles northwest	2, NW cor. SE¼	W-1	Foster Klaus	Layne Pump Co.	do.	1913	226	26
37	3¾ miles northwest	3, NE¼SW¼	W-1	J. B. Johnson	—	do.	—	—	18
38	3¼ miles northwest	3, SE¼SE¼	W-1	do.	—	do.	Old	65	6
39	3¾ miles north	15, SW¼SE¼	W-1	Mrs. Bana Ray	— Gorman	do.	1937	210	18
40	4½ miles north	16, NE¼NW¼	W-1	A. B. Haile	W. P. Witt	Ridge top	1937	285	18
41	1¼ miles east	38, SW¼NW¼	W-1	B. Youngblood	E. R. Sprawls	Gentle slope	1937	126	18
42	do.	38, NW cor. SW¼	W-1	do.	do.	do.	1937	143	18
43	do.	38, SW¼NW¼	W-1	do.	do.	do.	1936	195	18
44	do.	38, NW¼SW¼	W-1	do.	do.	do.	1936	146	18
45	1 mile east	27, SW¼SE¼	W-1	E. R. Sprawls	do.	Ridge top	1934	238	18
46	do.	27, NW¼SE¼	W-1	do.	do.	Gentle slope	1937	149	18
47	do.	27, NW¼NE¼	W-1	T. M. Stith	E. R. Sprawls	do.	1937	147	18

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
25	1.0	81.3	Oct. 29, 1937	T,G, 85	I	Reported 32 feet drawdown pumping 300 gallons a minute. Irrigated 329 acres in 1937. Pump set at 120 feet. "Red Beds" at 208 feet.
26	--	--	--	None	N	Drilled for irrigation. Reported yield, 400 gallons a minute. "Red Beds" at 139 feet.
27	--	--	--	T,G, 85	N	Drilled for irrigation. Reported yield, 250 gallons a minute. "Red Beds" at 175 feet.
28	1.4	75	Oct. 28, 1937	None	N	Drilled for irrigation. Reported very weak supply.
29	1.0	66.4	do.	None	N	Do.
30	0.0	62.3	do.	None	N	Do.
31	1.0	60.2	do.	T,G, 40	I	Reported yield, 800 gallons a minute. No casing.
32	1.3	77.2	do.	T,G, 40	I	Irrigated 292 acres in 1937. Reported 37 feet drawdown, pumping 1,200 gallons a minute for 140 hours. Pump set at 120 feet.
33	--	--	--	T,G, 85	I	Re-Sand and gravel from 177 to 240 feet. Reported yield, 850 gallons a minute.
34	--	--	--	T,G, 85	I	Reported yield, 800 gallons a minute. Irrigated 172 acres wheat and feed in 1937.
35	--	--	--	T,G, 85	I	Reported yield, 1,000 gallons a minute. Irrigated 260 acres wheat and feed in 1937.
36	4.5	59.3	June 5, 1937	T,G, 100	I	Reported 35 feet drawdown pumping 1,500 gallons a minute. Pump set at 110 feet. See log.
37	1.0	63.7	Sept. 13, 1937	T,G, 85	I	Irrigated wheat, 550 hours, pumping 850 gallons a minute.
38	0.3	55.3	do.	C,W	D,S	Estimated yield, 5 gallons a minute.
39	1.5	55.7	Nov. 30, 1937	T,G,-	I	Reported yield, 1,100 gallons a minute. Pump set at 120 feet. Set 210 feet of 14-inch steel casing, perforated below water level.
40	--	61	d/	T,G, 85	I	Irrigated 167 acres truck, wheat and feed in 1937. Reported 38 feet drawdown pumping 900 gallons a minute. Pump set at 100 feet. "Red Beds" at 276 feet.
41	--	--	--	None	N	Drilled for irrigation. Reported yield, 300 gallons a minute.
42	--	--	--	T,G, 85	N	Do.
43	--	--	--	None	N	Drilled for irrigation. Reported yield, 200 gallons a minute. "Red Beds" at 140 feet.
44	--	--	--	None	N	Drilled for irrigation. Reported yield, 300 gallons a minute. "Red Beds" at 146 feet.
45	--	60	d/	T,G, 85	I	Irrigated 63 acres feed and alfalfa in 1937. Reported yield, 700 gallons a minute. Pump set at 100 feet. "Red Beds" at 161 feet.
46	1.0	69.9	Dec. 2, 1937	T,G, 85	I	Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No casing.
47	--	63	d/	T,G, 30	I	Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours. Pump set at 84 feet. "Red Beds" at 147 feet.

Records of wells in Swisher County--Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
48	$\frac{3}{4}$ mile northeast	27, NE $\frac{1}{4}$ NW $\frac{1}{4}$	W-1	---	---	Gentle slope	Old	---	84
49	$\frac{1}{2}$ mile northeast	21, SW $\frac{1}{4}$ SW $\frac{1}{4}$	W-1	---	---	Edge of lake	---	60	6
50	$\frac{3}{4}$ mile northeast	27, NW $\frac{1}{4}$ NW $\frac{1}{4}$	W-1	---	---	Gentle slope	1923	69	6
51	$\frac{1}{4}$ mile north	22, SW $\frac{1}{4}$ NE $\frac{1}{4}$	W-1	City of Tulia	R. J. Stallings	do.	1914	140	18
52	$\frac{3}{4}$ mile west	11, SE $\frac{1}{4}$ NE $\frac{1}{4}$	W-1	do.	do.	do.	1922	198	18
53	do.	do.	W-1	do.	G. E. Hegins	do.	1926	160	26
54	$1\frac{1}{4}$ miles west	do.	W-1	D. H. Hyman	R. J. Stallings	do.	1911	---	---
55	$7\frac{1}{2}$ miles west	24, NW $\frac{1}{4}$ NE $\frac{1}{4}$	M-8	J. H. Bice	Calvin Hamm	do.	1934	157	18
56	8 miles west	24, NW $\frac{1}{4}$ NW $\frac{1}{4}$	M-8	Mrs. Ollie Settle	R. J. Stallings	do.	1937	270	18
57	$9\frac{1}{2}$ miles west	24, SW $\frac{1}{4}$ SE $\frac{1}{4}$	M-6	---	---	do.	1936	200	18
58	do.	do.	M-6	---	---	do.	1936	200	18
59	10 miles west	23, NW cor. NW $\frac{1}{4}$	M-6	C. G. Jordan	Green Mch. Co.	Level	1935	200	18
101	$10\frac{1}{2}$ miles north	95, SW $\frac{1}{4}$ NW $\frac{1}{4}$	M-9	Dick Pair	John Clayton	Ridge top	1937	230	18
102	10 miles north	95, SE cor. SE $\frac{1}{4}$	M-9	Union Hill School	---	Gentle slope	---	80	6
103	15 miles northeast	191, NW cor. SE $\frac{1}{4}$	M-9	J. B. Knowles	---	do.	1937	237	18
104	do.	88, SE cor. SE $\frac{1}{4}$	M-10	Salem School	---	do.	---	80	6
105	16 miles northeast	101, NW cor. NW $\frac{1}{4}$	M-10	J. V. Davis	T. W. Payne	do.	1937	186	18
106	19 miles northeast	94, NE $\frac{1}{4}$ NE $\frac{1}{4}$	M-10	J. T. McGehee	---	Ridge top	1937	---	18
107	$17\frac{1}{2}$ miles northeast	Lot 11, SW $\frac{1}{4}$	League 4	Vigo Park School	---	Flat	---	80	6
108	$16\frac{1}{2}$ miles northeast	Lot 23, NE $\frac{1}{4}$	League 4	D. D. Augspurger	Layne Pump Co.	do.	1914	210	26
109	15 miles northeast	107, NW $\frac{1}{4}$ NE $\frac{1}{4}$	M-10	E. R. Sprawls	T. W. Payne	Ridge top	1937	287	18

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
48	--	--	--	None	N	Dug 50 feet or more, drilled to bottom. Drilled for irrigation.
49	0.3	49.3	July 16, 1937	C,W	N	In Tulia.
50	0.3	61	do.	C,W	N	Do.
51	--	70	d/	T,E, 25	P	City well 5. Reported yield, 200 gallons a minute. Pump set at 130 feet. No casing.
52	--	70	d/	T,E, 40	P	City well 1. Reported 15 foot drawdown pumping 500 gallons a minute for 4 hours. Pump
53	--	70	d/	T,E, 50	P	City well 2. set at 173 feet. No casing. Reported yield, 775 gallons a minute. Pump set at 150 feet. 150 feet of 26-inch per-
54	--	--	--	None	N	Dug and drilled. Pit perforated casing at top. pump was used. Abandoned as not practical
55	1.5	82.9	Oct. 29, 1937	T,G, 60	I	Irrigated 104 acres, potatoes, in 1912. grain and feed in 1937. Reported yield, 750 gallons a minute. Pump set at 100 feet. No casing. Coarse sand from 90 to 130 feet.
56	--	78	d/	T,-	N	Reported yield, 250 gallons a minute. "Red Beds" at 158 feet.
57	0.5	91.5	Sept. 14, 1937	None	N	Reported yield, 300 gallons a minute. "Red Beds" at 200 feet.
58	0.1	90.8	do.	None	N	Reported weak supply. "Red Beds" at 200 feet.
59	0.5	114.1	do.	T,G, 85	I	Irrigated 142 acres alfalfa and wheat. Reported 53 feet drawdown 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,
101	1.5	71.7	Nov. 29, 1937	T,G, 40	I	Reported Dec. 1935; 95 feet, Dec. 1936. yield, 500 gallons a minute. 138 feet of 14-inch steel casing at top, perforated be-
102	--	--	--	C,W	P	low water level.
103	2.0	82.5	Nov. 30, 1937	None	N	Reported yield, 150 gallons a minute. "Red Beds" at 170 feet.
104	--	--	--	C,W	P	
105	--	--	--	None	N	Weak supply. Reported could bail dry.
106	--	--	--	T,G,-	I	
107	--	--	--	C,W	P	
108	3.3	74.8 75.6	Apr. 20, 1934 Nov. 29, 1937	T,D, 100	I	Irrigated 155 acres feed and wheat in 1937. Reported yield, 1,000 gallons a minute. See log.
109	0.3	71.7	Nov. 29, 1937	None	N	Reported yield, 250 gallons a minute.



## Records of wells in Swisher County--Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
110	15 miles northeast	107, SW $\frac{1}{2}$ NE $\frac{1}{4}$	M-10	T. W. Payne	T. W. Payne	Edge of lake	1933	166	18
111	13 $\frac{1}{2}$ miles northeast	105, NW cor. NE $\frac{1}{4}$	M-10	C. H. Lowe	J. M. Tucker	Ridge top	1937	235	18
112	13 miles northeast	116, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-10	E. V. Stewart	Green Mch. Co.	Flat	1937	200	18
113	9 $\frac{1}{2}$ miles northeast	198, SE $\frac{1}{2}$ SW $\frac{1}{4}$	M-9	Mrs. J. M. Tucker	J. M. Tucker	Ridge top	1937	210	18
113a	9 miles northeast	1, NW $\frac{1}{2}$ NW $\frac{1}{4}$	RC.	Valleyview School	—	Slope	—	70	6
114	9 miles northeast	163, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-9	Hugh Parker	R. J. Stallings	Gentle slope	1937	218	13
115	do.	164, SW $\frac{1}{2}$ SW $\frac{1}{4}$	M-9	W. W. Parker	W. D. Witt	do.	1937	226	13
116	11 miles northeast	196, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-9	A. R. Stewart	J. M. Tucker	do.	1937	200	18
117	10 $\frac{1}{2}$ miles northeast	159, NW cor. NW $\frac{1}{4}$	M-9	Mrs. W. L. Pearson	— Harris	do.	1937	225	18
118	9 miles northeast	128, NW cor. NE $\frac{1}{4}$	M-9	T. L. Parker	R. J. Stallings	do.	1937	206	18
119	5 $\frac{1}{2}$ miles northeast	6, SW $\frac{1}{2}$ SE $\frac{1}{4}$	RC.	N. G. Jackson	—	Gentle slope	—	—	48
120	do.	8, NE $\frac{1}{2}$ NW $\frac{1}{4}$	RC.	Frank Keehn	— Allman	Ridge top	1937	190	18
121	do.	8, NW $\frac{1}{2}$ SE $\frac{1}{4}$	RC.	Joe Reeves	R. P. McDaniels	do.	1937	142	18
122	7 miles northeast	10, SW $\frac{1}{2}$ NW $\frac{1}{4}$	RC.	J. E. Holly	do.	do.	1937	193	18
123	9 $\frac{1}{2}$ miles east	127, NW $\frac{1}{2}$ SE $\frac{1}{4}$	M-10	R. B. Pyeatt	E. R. Sprawls	Gentle slope	1936	125	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, gasoline; Ng, natural gas; O, diesel or semi-diesel; W, windmill; H, hand; number indicates horsepower.

Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
110	—	55	d/	T,G, 45	I	Irrigated 90 acres feed in 1937. Reported yield, 750 gallons a minute. No casing. Pump set at 106 feet. Sand and gravel from 140 to 160 feet. "Red Beds" at 160 feet.
111	0	75.1	Nov. 30, 1937	None	N	Reported yield, 300 gallons a minute. 125 feet of 14-inch perforated steel casing from 10 to 135 feet. "Red Beds" at 135 feet.
112	1.8	54.4	Nov. 26, 1937	T,G, 85	I	Irrigated 80 acres feed and wheat in 1937. Reported 25 feet drawdown pumping 700 gallons a minute. Pump set at 144 feet. 20 feet of 14-inch perforated casing at bottom.
113	2.0	60.5	Nov. 30, 1937	T,G, —	I	Irrigated 90 acres feed and wheat in 1937. Reported yield, 800 gallons a minute.
113a	—	—	—	C,W	P	
114	1.5	58.7	Nov. 15, 1937	T,G, 60	I	Irrigated 280 acres feed and wheat in 1937. Reported 26 feet drawdown pumping 900 gallons a minute. Pump set at 120 feet. Sand and gravel from 187 to 209 feet. 209 feet of 16-inch steel casing at top, perforated
115	1.5	58.9	do.	T,G, 60	I	Irrigated 235 acres feed and wheat in 1937. Reported 38 feet drawdown pumping 900 gallons a minute. Pump set at 116 feet. Sand and gravel from 192 to 209 feet.
116	—	60	d/	T,G, 85	I	Irrigated 35 acres feed in 1937. Reported yield, 800 gallons a minute. Pump set at 96 feet. "Red Beds" at 200 feet. 146 feet of 14- and 12-inch perforated steel casing from 34 to 180 feet. Sand and gravel
117	—	50	d/	T,G, 75	I	Irrigated 80 acres feed in 1937. Reported yield, 1,100 gallons a minute. "Red Beds" at 225 feet. 225 feet of 16- and 12-inch steel casing perforated
118	—	54	d/	T,G, 85	I	Reported yield, 700 gallons a minute. Pump set at 140 feet. 150 feet of 16-inch steel casing at top, perforated below water level. "Red Beds" at
119	—	—	—	T,G, —	I	203 feet.
120	1.0	51.4	Nov. 24, 1937	T,G, 85	I	Irrigated 71 acres cotton and feed in 1937. Reported yield, 1,200 gallons a minute.
121	—	—	—	T,G, 85	I	Irrigated Pump set at 100 feet. No casing. 60 acres feed in 1937. Reported yield, 1,100 gallons a minute. Pump set at 90 feet.
122	—	50	d/	T,G, 85	I	Irrigated 47 acres feed in 1937. No casing. Reported yield, 800 gallons a minute. Pump
123	1.0	48.6	Nov. 16, 1937	T,G, 65	I	Irrigated 187 acres feed and grain in 1937. Reported yield, 1,000 gallons a minute. Pump set at 72 feet. No casing.

c/ I, irrigation; P, public; D, domestic; S, stock; N, not used.  
d/ Water level reported.

## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
124	10 $\frac{1}{2}$ miles east	125, SW $\frac{1}{4}$ SW $\frac{1}{4}$	M-10	W. C. Watson	Green Mch. Co.	Gentle slope	1933	188	18
125	do.	125, SE $\frac{1}{2}$ SW $\frac{1}{4}$	M-10	do.	—	do.	1930	70	6
126	do.	do.	M-10	do.	—	do.	1908	52	6
127	11 miles east	124, SW $\frac{1}{4}$ NW $\frac{1}{4}$	M-10	W. B. Ballard	J. M. Tucker	do.	1937	197	18
128	11 $\frac{1}{2}$ miles northeast	119, NW $\frac{1}{4}$ SE $\frac{1}{4}$	M-10	R. L. Wright	Green Mch. Co.	do.	1937	192	18
129	11 $\frac{1}{2}$ miles east	163, SW $\frac{1}{4}$ SW $\frac{1}{4}$	M-10	W. O. Borchardt	— Phillips	Almost flat	1937	164	18
130	13 $\frac{1}{2}$ miles east	74, SE $\frac{1}{2}$ NE $\frac{1}{2}$	B-3	J. N. Montgomery	Green Mch. Co.	Gentle slope	1937	225	18
131	13 miles east	74, SE cor. SE $\frac{1}{2}$	B-3	Red Hill School	—	Almost flat	—	55	6
132	do.	69, SW $\frac{1}{4}$ SW $\frac{1}{4}$	B-3	A. & H. Price	—	—	1914	260	26
133	9 miles east	133, SW $\frac{1}{2}$ NE $\frac{1}{4}$	M-10	T. H. Love	Henry Patzig	Ridge top	1937	201	18
134	do.	133, NW $\frac{1}{2}$ SE $\frac{1}{4}$	M-10	do.	do.	do.	1937	194	18
135	do.	133, SE $\frac{1}{2}$ NW $\frac{1}{4}$	M-10	R. B. Bell	E. R. Sprawls	Gentle slope	1936	100	18
136	8 miles east	134, NW cor. SE $\frac{1}{4}$	M-10	Edgar Bell	Henry Patzig	do.	1937	200	8
137	do.	do.	M-10	do.	do.	do.	1931	100	26
138	9 $\frac{1}{2}$ miles east	40, center	M-15	J. A. Tucker	Henry Patzig	Ridge top	1936	114	18
139	5 miles northeast	9, NW $\frac{1}{4}$ NW $\frac{1}{4}$	M-15	F. R. Anderson	do.	do.	1937	208	18
140	3 $\frac{1}{2}$ miles east	11, SW cor. NW $\frac{1}{4}$	M-15	P. W. Mitchell	W. D. Witt	do.	1937	130	18
141	do.	11, SW $\frac{1}{2}$ SW $\frac{1}{4}$	M-15	S. J. Payne	E. R. Sprawls	Gentle slope	1936	140	18
142	do.	37, SE $\frac{1}{2}$ SE $\frac{1}{4}$	M-15	G. A. Hall	—	Ridge top	1922	57	10
143	2 $\frac{3}{4}$ miles east	37, NE $\frac{1}{4}$ SW $\frac{1}{4}$	M-15	do.	W. D. Witt	do.	1937	180	18
201	6 $\frac{1}{2}$ miles east	151, SW $\frac{1}{2}$ SW $\frac{1}{2}$	A	C. M. Flowers	D. L. Handley	Gentle slope	1937	162	18

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
124	4.0	50.9	Nov. 26, 1937	T,G, 85	I	Irrigated 361 acres feed, cotton, and wheat in 1937. Pump set at 86 feet. Reported yield, 800 gallons a minute. See log.
125	—	49	d/	C,W	D	
126	0.3	49	Nov. 26, 1937	C,W	S	
127	1.7	54.1	do.	T,G, 85	I	Irrigated 100 acres feed and wheat in 1937. Reported yield, 750 gallons a minute.
128	—	50	d/	None	N	Reported yield, 350 gallons a minute. No casing.
129	1.0	61.8	Nov. 26, 1937	None	N	Reported yield, 300 gallons a minute. No casing.
130	1.8	53.3	do.	T,G, 85	I	Reported yield, 400 gallons a minute. Pump set at 124 feet. 100 feet of 16-inch steel casing at top, perforated below water level.
131	—	—	—	C,W	P	
132	—	—	—	None	N	Abandoned. See log.
133	1.0	42.7	Nov. 19, 1937	None	N	Reported yield, 250 gallons a minute. "Red Beds" at 180 feet.
134	—	38	d/	T,G, 85	I	Irrigated 110 acres feed and wheat in 1937. Reported yield, 1,000 gallons a minute.
135	—	—	—	T,G, —	I	Irrigated Pump set at 80 feet. No casing. 80 acres feed and wheat in 1937. Reported
136	0	44.8	Nov. 19, 1937	None	N	Drilled 6 feet yield, 750 gallons a minute. northwest of well now in use, trying to lo-
137	0	44.7	do.	T,O, —	I	Irrigated 90 acres feed, locate more water. wheat and cotton in 1937. Reported yield,
138	—	42	d/	T,G, —	I	Irrigated 128 acres 700 gallons a minute. feed, wheat and cotton in 1937. Reported yield, 900 gallons a minute. Pump set at 80 feet. 60 feet of 15-inch perforated steel
139	—	—	—	T,G, 85	I	Irrigated casing from 40 to 100 feet. 135 acres wheat in 1937. Reported yield, 900 gallons a minute. Pump set at 130 feet.
140	—	—	—	T,G, —	I	Irrigated 200 acres feed, wheat, No casing. and cotton in 1937. Reported yield, 800 gallons a minute. Pump set at 80 feet. 20 feet of 16-inch perforated steel casing set
141	1.0	60.2	Nov. 16, 1937	T,G, 36	I	Irrigated 129 acres from 100 to 120 feet. feed, grain and cotton in 1937. Reported 15 feet drawdown pumping 650 gallons a min-
142	5.0	34.2	do.	C,—	N	Formerly used to ute. Pump set at 72 feet. irrigate garden; was operated by twin wind-
143	—	45	d/	T,G, 85	I	Irrigated 183 acres feed and windmills. wheat in 1937. Reported yield, 350 gallons
201	1.2	53.3	Nov. 12, 1937	T,G, 85	I	Irrigated a minute. Pump set at 140 feet. 240 acres of feed, grain and alfalfa in 1937 from 4 wells. Reported 26 feet drawdown pumping 950 gallons a minute for 6 hours. Pump set at 90 feet. 126 feet of 16-inch perforated steel casing at bottom. "Red Beds" at 152 feet.

## Records of wells in Swisher County--Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
202	6 $\frac{1}{2}$ miles east	151, SW $\frac{1}{4}$ SW $\frac{1}{4}$	A	C. M. Flowers	D. L. Handley	Gentle slope	1937	148	18
203	do.	151, SE $\frac{1}{4}$ SW $\frac{1}{4}$	A	do.	do.	do.	1937	155	18
204	do.	151, SW cor. NE $\frac{1}{4}$	A	do.	do.	do.	1935	245	18
205	7 miles east	152, NW cor. NW $\frac{1}{4}$	A	Elkins School	—	Almost flat	1909	48	6
206	9 miles east	115, NW $\frac{1}{2}$ NW $\frac{1}{4}$	A	G. R. Richardson	Green Mch. Co.	Above creek	1937	116	18
207	9 $\frac{1}{2}$ miles east	115, NE $\frac{1}{2}$ SW $\frac{1}{4}$	A	W. J. Richardson	D. L. Handley	do.	1934	215	18
208	11 miles east	100, NW cor. NW $\frac{1}{4}$	A	Love School	—	Gentle slope	—	55	6
209	11 $\frac{1}{2}$ miles east	100, NW cor. NE $\frac{1}{4}$	A	—	—	do.	1937	140	18
210	do.	100, NE $\frac{1}{2}$ NE $\frac{1}{4}$	A	—	—	do.	1937	140	18
211	12 miles east	do.	A	—	—	do.	1937	140	18
212	17 $\frac{1}{2}$ miles southeast	58, NW $\frac{1}{4}$ SW $\frac{1}{4}$	A	Leo Koger	Leo Koger	Ridge top	1937	165	18
213	14 miles southeast	93, NW cor. NE $\frac{1}{4}$	A	H. A. Hodges	Green Mch. Co.	Gentle slope	1935	210	18
214	13 $\frac{1}{2}$ miles southeast	93, NE $\frac{1}{2}$ NW $\frac{1}{4}$	A	R. A. Hodges	do.	do.	1936	200	18
215	11 $\frac{1}{2}$ miles southeast	108, SW $\frac{1}{4}$ SW $\frac{1}{4}$	A	—	—	Ridge top	1937	180	18
216	11 miles southeast	119, SW $\frac{1}{2}$ SW $\frac{1}{4}$	A	Ben Finegold	Leo Koger	Gentle slope	1937	179	18
217	10 miles southeast	117, SW $\frac{1}{2}$ SW $\frac{1}{4}$	A	— Gunter	B. R. Kimbell	do.	1937	—	—
218	do.	117, SE $\frac{1}{2}$ SW $\frac{1}{4}$	A	do.	do.	do.	1937	140	18
219	do.	117, NW $\frac{1}{2}$ SW $\frac{1}{4}$	A	do.	— Harris	Ridge top	1937	245	18
220	do.	do.	A	do.	B. R. Kimbell	do.	1937	234	18
221	do.	do.	A	do.	do.	do.	1937	175	18
222	9 miles southeast	146, SE cor. SE $\frac{1}{4}$	A	T. B. Maynard	—	Slope	—	34	6
223	8 $\frac{1}{2}$ miles southeast	143, SW cor. NW $\frac{1}{4}$	A	I. L. Burk	J. C. Cook	Ridge top	1931	160	18
224	10 $\frac{1}{2}$ miles southeast	134, NW cor. NE $\frac{1}{4}$	A	Percy Hauck	—	Gentle slope	1937	181	18

Records obtained by C. R. Follert

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
202	1.5	48.3	Nov. 12, 1937	T,G, 85	I	Reported 63 feet drawdown pumping 800 gallons a minute. Pump set at 90 feet. 148 feet of 16-inch steel casing, perforated below water.
203	--	47	d/	None	N	Reported yield, 300 "Red Beds" at 148 feet. gallons a minute.
204	--	39	d/	None	N	Reported yield, 700 gallons a minute but failed if pumped 24 hours a day. "Red Beds" at 160 feet.
205	0	41.7	Nov. 26, 1937	C,W	P	
206	--	36	d/	T,G, 85	I	Irrigated 30 acres feed in 1937. Reported yield, 700 gallons a minute. Pump set at
207	--	40	d/	T,G, 85	I	Irrigated 240 acres 84 feet. No casing, feed, wheat, and alfalfa. Reported yield, 600 gallons a minute. Pump set at 80 feet.
208	--	--	--	C,W	P	No casing.
209	1.0	45.1	Dec. 2, 1937	T,-	N	Reported yield, 200 gallons a minute.
210	0	47.	do.	None	N	Do.
211	--	--	--	None	N	Reported yield, 200 gallons a minute.
212	1.0	62.6	Nov. 10, 1937	T,-	N	Reported yield, 500 gallons a minute.
213	--	55	d/	T,G, 85	I	Irrigated 55 acres feed and wheat in 1937. Reported yield, 550 gallons a minute. Pump set at 96 feet. "Red Beds" at 160 feet.
214	--	55	d/	T,G, 85	I	Irrigated 50 acres feed and cotton in 1937. Reported yield, 800 gallons a minute. Pump set at 84 feet. "Red Beds" at 160 feet. 80 feet of 16-inch perforated steel casing from
215	1.2	53.9	Nov. 10, 1937	T,G, 85	I	Reported yield, 800 gallons 80 to 160 feet. a minute. Pump set at 96 feet.
216	--	--	--	T,G, --	I	Reported yield, 700 gallons a minute. Pump set at 90 feet. No casing.
217	--	--	--	None	N	Drilling for irrigation purposes.
218	0	33.1	Nov. 6, 1937	None	N	Drilled for irrigation but never tested due to lack of sufficient water bearing material.
219	1.5	36.5	do.	T,G, 85	I	Irrigated 40 acres feed and alfalfa in 1937. Reported yield, 400 gallons a minute. Pump set at 60 feet. "Red Beds" at 120 feet.
220	0	36.5	do.	None	N	Drilled for irrigation but never tested due to lack of sufficient water bearing material.
221	0	36.3	do.	None	N	Drilled for irrigation but never tested due to lack of sufficient water bearing material. See log.
222	-0.5	28.7	do.	None	N	No casing at top. ling material.
223	1.5	41.6	Nov. 12, 1937	T,G, --	I	Irrigated 101 acres feed and grain in 1937. Reported yield, 750 gallons a minute.
224	--	--	--	T,G, 85	I	Irrigated 160 acres feed, wheat and cotton in 1937. Reported yield, 1,000 gallons a minute. Pump set at 90 feet. No casing.

## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
225	12 $\frac{1}{2}$ miles southeast	131, SW $\frac{1}{4}$ SW $\frac{1}{4}$	A	—	—	Gentle slope	—	—	19
226	13 miles southeast	127, SW $\frac{1}{4}$ NW $\frac{1}{4}$	A	—	—	Flat	—	—	6
227	14 miles southeast	96, NW $\frac{1}{4}$ NW $\frac{1}{4}$	B-2	Mrs. N. G. Poe	G. E. Green	Gentle slope	1914	204	26
228	13 $\frac{1}{2}$ miles southeast	97, NW cor. NW $\frac{1}{4}$	B-2	— Hutchinson	—	do.	1937	—	18
229	14 miles southeast	97, NW cor. NE $\frac{1}{4}$	B-2	do.	—	do.	1937	—	18
230	13 miles southeast	98, NW $\frac{1}{4}$ NE $\frac{1}{4}$	B-2	J. B. Reid Estate	— Casebolt	Ridge top	1937	220	18
231	13 $\frac{1}{2}$ miles southeast	87, NW $\frac{1}{4}$ NW $\frac{1}{4}$	B-2	— Hutchinson	—	Gentle slope	1937	—	18
232	14 miles southeast	87, NW $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	do.	—	do.	1937	—	18
233	14 $\frac{1}{2}$ miles southeast	88, SW $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	Mrs. J. Hamilton	Louis Francis	Ridge top	1937	203	18
234	15 $\frac{1}{2}$ miles southeast	89, NE $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	Andrew Price	Calvin Cook	do.	1930	204	18
235	15 miles southeast	84, NW $\frac{1}{4}$ NE $\frac{1}{4}$	B-2	A. S. Hanna	— Miller	Gentle slope	1936	175	18
236	16 $\frac{1}{2}$ miles southeast	70, NE $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	E. R. Lovern	W. D. Casebolt	Ridge top	1937	232	18
237	do.	70, SE $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	do.	do.	do.	1937	258	18
238	18 miles southeast	68, SE $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	B. R. Stark	W. D. Witt	Gentle slope	1936	187	18
239	18 $\frac{1}{2}$ miles southeast	61, con. SW $\frac{1}{4}$	B-2	B. C. Stark	Louis Francis	Ridge top	1937	200	18
240	19 $\frac{1}{2}$ miles southeast	51, SE $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	Wilbur Wilson	W. D. Casebolt	do.	1937	215	18
241	20 $\frac{1}{2}$ miles southeast	52, NW $\frac{1}{4}$ NE $\frac{1}{4}$	B-2	A. C. Wimberly	Brown & Francis	do.	1937	—	18
242	20 miles southeast	64, NW $\frac{1}{4}$ NW $\frac{1}{4}$	B-2	J. A. Savage	Green Mch. Co.	Gentle slope	1936	223	18
243	19 miles southeast	66, SW $\frac{1}{4}$ NE $\frac{1}{4}$	B-2	A. A. Blackerby	Blackerby Bros.	do.	1937	230	18
244	do.	66, NW $\frac{1}{4}$ SE $\frac{1}{4}$	B-2	E. F. Blackerby	Green Mch. Co.	do.	1937	242	18
245	19 $\frac{1}{2}$ miles southeast	65, NW cor. SW $\frac{1}{4}$	B-2	—	—	Flat	—	—	6
246	19 miles southeast	78, SW $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	B. F. Foster	—	Gently rolling	—	—	6

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.

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.)	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
225	1.0	43.7	Sept. 21, 1937	T,-	I	
226	0	45	May 6, 1936	C,-	N	
227	3.0	49	Nov. 9, 1937	T,-	N	Not used since 1936. Reported yield, 800 gallons a minute. See log.
228	1.5	51.7	Nov. 8, 1937	T,-	I	Development test run. Reported good well.
229	1.5	52.9	do.	T,-	I	Do.
230	1.0	60.1	do.	T,G, 85	I	Reported yield, 1,000 gallons a minute. Pump set at 100 feet. 180 feet of casing at
231	1.5	52.9	do.	T,-	I	Development test run. Reported good well. top, perforated below water level.
232	1.5	53.4	do.	T,-	I	Do.
233	1.0	51.9	do.	T,G, 85	I	Reported yield, 1,000 gallons a minute. Pump set at 100 feet. No casing. "Red Beds"
234	1.0	61.6	Nov. 9, 1937	None	N	Reported good well. No casing at 203 feet. at top.
235	1.5	57.5	Nov. 10, 1937	T,G, 85	I	Irrigated 185 acres feed, grain and cotton in 1937. Reported 7 feet drawdown pumping 900 gallons a minute for 24 hours. Pump set
236	0	73	Nov. 9, 1937	None	N	Reported yield, at 110 feet. No casing. 400 gallons a minute. Sand and gravel from 220 to 232 feet. "Red Beds" at 232 feet.
237	1.0	73	do.	T,G, 85	I	Reported yield, 700 gallons a minute. Pump set at 150 feet. Sand and gravel from 226 to 234 feet. 80 feet of 16-inch perforated steel casing from 48 to 128 feet. "Red Beds"
238	1.8	54.6	Nov. 8, 1937	T,G, —	I	Irrigated 220 acres feed and grain in 1937. Reported yield, 800 gallons a minute. 70 feet of 16-inch perforated steel casing from 20 to 90 feet. at 234 feet.
239	0.7	65.6	do.	None	N	Just completed. Not tested. No casing.
240	1.5	72.2	do.	T,Ng, 85	I	Irrigated 40 acres native grass. Reported yield, 950 gallons a minute. Pump set at
241	—	—	—	None	N	Drilling. 110 feet. No casing.
242	—	80	d/	T,G, 85	I	Irrigated 193 acres feed, wheat, cotton, and alfalfa in 1937. Reported yield, 700 gallons a minute. 223 feet of perforated steel casing.
243	—	—	—	None	N	Reported doubtful supply. River bed sand and gravel from 175 to 200 feet.
244	—	—	—	T,G, 85	I	Irrigated 88 acres feed in 1937. Reported yield, 750 gallons a minute. Pump set at 120 feet. Sand and gravel from 175 to 200 feet.
245	0.3	64.8	May 7, 1936	C,W	D	
246	0.3	59.8	do.	C,W	D	

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

d/ Water level reported.



## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
247	18 miles southeast	80, NE $\frac{1}{4}$ SE $\frac{1}{4}$	B-2	W. B. Pool	W. D. Casebolt	Gentle slope	1937	226	18
248	17 $\frac{1}{2}$ miles southeast	76, NE $\frac{1}{4}$ NW $\frac{1}{4}$	B-2	F. E. Pearson	W. E. Durham	Ridge top	1937	223	18
249	16 $\frac{1}{2}$ miles southeast	90, NW $\frac{1}{4}$ SE $\frac{1}{4}$	B-2	Sam Neuman	Green Mch. Co.	do.	1936	200	18
250	do.	90, SE $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	J. A. Boyd	Leo Koger	do.	1937	207	18
251	17 miles southeast	92, NE $\frac{1}{4}$ NW $\frac{1}{4}$	B-2	F. W. Struve	Green Mch. Co.	Gentle slope	1936	232	18
252	16 miles southeast	94, NW $\frac{1}{4}$ SW $\frac{1}{4}$	B-2	O. J. Cotton	do.	do.	1937	220	18
253	15 $\frac{1}{2}$ miles southeast	6, SW $\frac{1}{4}$ SW $\frac{1}{4}$	B-6	Plainview-Lockney Farms	W. D. Witt	Ridge top	1937	209	18
254	14 $\frac{1}{2}$ miles southeast	2, NE $\frac{1}{4}$ SE $\frac{1}{4}$	B-6	—	—	Slope	—	—	6
255	14 miles southeast	2, NW cor. NE $\frac{1}{4}$	B-6	Chas. Inman	W. D. Witt	Gentle slope	1937	200	18
256	13 $\frac{1}{2}$ miles southeast	3, NW cor. SW $\frac{1}{4}$	B-6	D. M. Springer	— Burch	do.	1937	225	18
257	15 $\frac{1}{2}$ miles southeast	32, SW cor. SW $\frac{1}{4}$	M-14	Joe Bontke	Joe Bontke	do.	1937	222	18
258	17 miles southeast	25, NW $\frac{1}{4}$ SE $\frac{1}{4}$	M-14	—	—	do.	—	—	6
259	16 $\frac{1}{2}$ miles southeast	23, SW $\frac{1}{4}$ SW $\frac{1}{4}$	M-14	Plainview-Lockney Farms	W. D. Witt	do.	1937	214	18
260	19 $\frac{1}{2}$ miles southeast	10, SW $\frac{1}{4}$ NW $\frac{1}{4}$	M-14	J. W. Carter	Green Mch. Co.	do.	1936	222	18
261	21 miles southeast	W. N. Farris	—	W. O. Wells	—	Flat	Old	—	6
301	$\frac{3}{4}$ mile southwest	10, NE cor. NE $\frac{1}{4}$	W-1	—	—	Slope to draw	Old	38	6
302	1 $\frac{1}{4}$ miles southwest	23, SW $\frac{1}{4}$ SW $\frac{1}{4}$	W-1	J. D. Vaughn	Layne Pump Co.	do.	1914	233	26
303	$\frac{1}{2}$ mile south	23, NE $\frac{1}{4}$ NE $\frac{1}{4}$	W-1	J. W. Vaughn	do.	Creek valley	1911	74	—
304	1 mile southeast	26, SW $\frac{1}{4}$ NW $\frac{1}{4}$	W-1	E. W. Jackson	—	do.	1917	28	6
305	1 $\frac{3}{4}$ miles southeast	25, NW cor. NE $\frac{1}{4}$	W-1	J. L. Cantrell	—	do.	—	48	6

Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
247	1.2	58.5	Nov. 9, 1937	T,G, 85	I	Reported yield, 1,000 gallons a minute. Pump set at 90 feet. 120 feet of 12-inch perforated steel casing from 20 to 140 feet.
248	—	—	—	T,G, —	I	"Red Beds" at 226 feet.
249	1.0	57.8	Nov. 8, 1937	T,G, 85	I	Irrigated 216 acres in 1937. Reported yield, 700 gallons a minute. Pump set at 90 feet. 200 feet of 16- and 12-inch steel casing, perforated below water. "Red Beds" at 200 feet.
250	—	56	d/	T,G, 50	I	Irrigated 60 acres feed in 1937. Reported yield, 850 gallons a minute. Pump set at 110 feet. 125 feet of 16-inch steel casing at top, perforated below water level. "Red
251	—	45	d/	T,O, 50	I	Irrigated 335 acres alfalfa, feed and cotton in 1937. Reported yield, "Beds" at 207 feet.
252	—	62	d/	T,G, 85	I	Reported yield, 800 1900 gallons a minute. 162 feet of 16-inch and 58 feet of 12-inch steel casing, perforated below water level. Pump set at 98 feet.
253	—	—	—	T,G, 170	I	Irrigated 575 acres cotton and wheat in 1937. Reported yield, 1,600 gallons a minute. Pump
254	0.5	36.9	May 6, 1936	C,W	D	set at 100 feet.
255	1.9	43.4	May 12, 1937	None	N	Drilled for irrigation but never tested. 25 feet of 16-inch perforated casing at 70
256	0.9	50.5	Aug. 10, 1937	T,G, 85	I	Reported yield, 750 gallons a minute. Pump set at 130 feet. 75 feet of 16-inch steel casing at top. "Red Beds" at to 95 feet.
257	1.0	68	Aug. 21, 1937	None	I	Irrigated 192 acres grain in 1937. 225 feet. Reported 18 feet drawdown pumping 1,200 gallons a minute for 30 minutes. 84 feet of 14-inch perforated steel casing suspended
258	0.5	51.1	May 6, 1937	C,W	D	with top at 68 feet.
259	—	—	—	T,G, 170	I	Irrigated 495 acres feed and wheat in 1937. Reported 20 feet drawdown pumping 1,800 gal-
260	—	50	d/	T,G, 85	I	lons a minute. Pump set at 120 feet. Irrigated 200 acres feed, grain and cotton in 1937. Reported yield, 300 gallons a minute. Pump set at 84 feet. 222 feet of 16- and 13-inch steel casing, perforated below water
261	0	64.9	May 2, 1936	C, —	N	level.
301	0.2	31.4	July 24, 1937	C,W	N	
302	5.0	66.9	Nov. 17, 1937	T,O, 80	I	Irrigated 97 acres in 1937. Pump set at 120 feet. Reported yield, 950 gallons a
303	—	—	—	Cf, —	N	Abandoned and caved in. minute. See log.
304	0.9	16.5	Aug. 10, 1937	C,H	S	
305	0.6	37.6	do.	C,W	S	

## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
306	2 miles east	39, NW $\frac{1}{2}$ NE $\frac{1}{4}$	W-1	W. C. Crawford	Adams & Pritchard		--	540	--
307	4 miles southeast	15, NW $\frac{1}{2}$ NE $\frac{1}{4}$	M-15	J. S. Vars	Green Mch. Co.	Ridge top	1937	173	18
308	do.	14, SE $\frac{1}{2}$ SE $\frac{1}{4}$	M-15	E. R. Sprawls	E. R. Sprawls	do.	1936	176	18
309	do.	25, SE $\frac{1}{2}$ NW $\frac{1}{4}$	M-15	W. F. Wall	Green Mch. Co.	do.	1937	172	18
310	4 $\frac{1}{4}$ miles southeast	25, SW $\frac{1}{2}$ NW $\frac{1}{4}$	M-15	Mrs. H. P. Wilkins	do.	--	1935	172	18
311	5 $\frac{1}{2}$ miles southeast	26, SW $\frac{1}{2}$ SE $\frac{1}{4}$	M-15	S. H. Braly	do.	Gentle slope	1937	162	18
312	5 miles southeast	24, SW cor. SE $\frac{1}{4}$	M-15	D. H. Eliff	E. R. Sprawls	Ridge top	1936	175	18
313	do.	24, SW $\frac{1}{2}$ SE $\frac{1}{4}$	M-15	do.	do.	do.	1936	114	18
314	5 $\frac{1}{2}$ miles southeast	18, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-15	C. E. Dietrich	Green Mch. Co.	do.	1933	175	18
315	6 $\frac{1}{2}$ miles southeast	21, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-15	F. J. Vannerson	-- VanArsdal	do.	1914	205	23
316	7 miles southeast	34, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-15	W. S. Kearne	--	do.	--	--	--
317	7 $\frac{1}{2}$ miles southeast	20, NW $\frac{1}{2}$ SE $\frac{1}{4}$	M-15	A. B. Martin	John Tye	do.	1935	222	18
318	8 miles southeast	20, SW $\frac{1}{2}$ SE $\frac{1}{4}$	M-15	do.	do.	do.	1936	222	18
319	6 $\frac{1}{2}$ miles southeast	16, NW $\frac{1}{2}$ NE $\frac{1}{4}$	M-13	H. J. Nash	Green Mch. Co.	do.	1937	200	18
320	7 miles south	25, NE $\frac{1}{4}$ SE $\frac{1}{4}$	M-13	Smith & Barnhart	do.	Gentle slope	1937	200	18
321	do.	25, SW $\frac{1}{2}$ NW $\frac{1}{4}$	M-13	Miss Alice Harrel	do.	do.	1937	220	18
322	do.	do.	M-13	do.	do.	do.	1937	216	18

Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
306	—	—	—	—	—	Oil test.
307	—	48	d/	T,G, 85	I	Irrigated 143 acres feed and wheat in 1937. Reported yield, 1,000 gallons a minute. Pump set at 84 feet. 132 feet of 16-inch
308	—	51	d/	T,G, —	I	Irrigated <u>perforated steel casing on bottom.</u> 180 acres feed, wheat and alfalfa in 1937. Reported yield, 1,500 gallons a minute. Pump
309	—	60	d/	T,G, 85	I	Irrigated 220 acres in <u>set at 72 feet.</u> 1937. Reported yield, 900 gallons a minute. Pump set at 96 feet. 152 feet of 16-inch steel casing at top, perforated below water
310	—	60	d/	T,G, 85	I	Irrigated 215 acres in 1937. Report- <u>level,</u> ed yield, 850 gallons a minute. Pump set at 84 feet. 150 feet of 16- and 12-inch porfo-
311	—	50	d/	T,G, 85	I	Irrigated 297 <u>rated steel casing at bottom.</u> acres in 1937. Reported yield, 800 gallons a minute. Pump set at 84 feet. 142 feet of 16- and 12-inch perforated steel casing at
312	—	—	—	T,G, 85	I	Irrigated <u>at bottom.</u> "Red Beds" at 158 feet. 160 acres feed and wheat in 1937. Reported yield, 700 gallons a minute. Pump set at 84
313	1.0	59.2	Nov. 12, 1937	None	N	Used summer of 1936 for irrigation. <u>1 feet.</u> Tried to drill deeper lost tools and abandon-
314	—	50	d/	T,G, 40	I	Irrigated 139 acres in 1937. Re- <u>ted well.</u> ported yield, 800 gallons a minute. Pump set at 96 feet. Sand from 163 to 175 feet.
315	2.5	55.1	Nov. 6, 1937	T,O, 60	N	Not used last 20 years. Reported yield, 1,200 gallons a minute. Pump set at 75 feet. 205 feet of 28-inch casing. Water level was measured as 48 feet and 4 inches below casing, which is 6 inches above surface, by
316	—	—	—	None	N	Drilling in No- <u>lower in 1914.</u> See log. vember, 1937, for irrigation well.
317	1.0	57.4	Nov. 12, 1937	T,G, 95	I	Irrigated 530 acres feed and wheat in 1937 from 2 wells. Reported 28 feet drawdown pumping 900 gallons a minute for 24 hours. Pump set at 84 feet. 100 feet of 16-inch perforated steel casing from 40 to 140 feet.
318	1.3	59.1	do.	T,G, 85	I	Reported yield, 755 gallons a minute. Pump set at 94 feet. 100 feet of 16-inch perforated steel casing from 40 to 140 feet.
319	—	64	d/	T,G, 85	I	Reported yield, 1,000 gallons a minute. Pump set at 84 feet.
320	—	—	—	T,G, 85	I	Reported yield, 800 gallons a minute. Pump set at 96 feet. 200 feet of 16-inch steel casing, perforated below water level.
321	2.0	68.9	Nov. 4, 1937	T,N, 85	I	Estimated yield, 750 gallons a minute. Pump set at 120 feet. 220 feet of 16- and 12-inch steel casing, perforated below water level.
322	1.2	71.2	Aug. 10, 1937	T,—, 85	I	Irrigated 326 acres wheat and feed in 1937. Reported yield, 900 gallons a minute. Pump set at 96 feet. 216 feet of 18-, 16-, and 12-inch steel casing, perforated below water

level.

Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
323	6 $\frac{1}{2}$ miles south	24, NW $\frac{1}{2}$ NE $\frac{1}{4}$	M-13	—	—	Gentle slope	—	76	6
324	do.	23, SE cor. SE $\frac{1}{4}$	M-13	Houston School	—	Slope	Old	70	6
325	6 miles south	22, SW $\frac{1}{2}$ NW $\frac{1}{4}$	M-13	—	—	do.	—	39	6
326	5 $\frac{1}{2}$ miles south	21, NW cor. NW $\frac{1}{4}$	M-13	F. M. Hilliard	F. L. Moore	Gentle slope	1937	221	18
327	do.	14, SE $\frac{1}{2}$ SW $\frac{1}{4}$	M-13	W. H. Lowe	Green Mch. Co.	Ridge top	1937	240	18
328	4 miles south	8, NE cor. SW $\frac{1}{4}$	M-13	J. L. Stallings	Baker & Keagan	—	1929	200	—
328a	3 $\frac{1}{4}$ miles south	4, SE $\frac{1}{2}$ SW $\frac{1}{4}$	M-13	J. H. Kennedy	Baker & Woodruff	—	—	1,235	—
329	3 miles southwest	2, NW cor. NW $\frac{1}{4}$	M-13	M. G. Davis	—	Gentle slope	—	—	—
330	3 $\frac{1}{4}$ miles southwest	2, SW cor. NW $\frac{1}{4}$	M-13	do.	—	do.	1937	196	18
331	7 miles south	31, SW $\frac{1}{2}$ NE $\frac{1}{4}$	M-13	T. E. Duke	W. D. Witt	Ridge top	1937	208	18
332	7 $\frac{1}{2}$ miles south	28, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-13	W. F. Kerr	W. F. Kerr	Gentle slope	1937	209	18
333	8 $\frac{1}{2}$ miles south	37, NW cor. NE $\frac{1}{4}$	M-13	—	Baker Pump Co.	do.	1937	—	18
333a	9 miles south	38, E $\frac{1}{2}$	M-13	R. B. Skipworth	G. E. Green	—	1913	195	22
334	10 $\frac{1}{2}$ miles south	44, SW $\frac{1}{2}$ SW $\frac{1}{4}$	M-13	H. Sanas	D. L. Handley	Gentle slope	1937	241	18
335	do.	41, SW cor. SW $\frac{1}{4}$	M-13	—	—	do.	—	—	6
336	10 miles south	41, NW cor. SW $\frac{1}{4}$	M-13	—	—	do.	—	—	6
337	8 miles south	27, SE $\frac{1}{2}$ NE $\frac{1}{4}$	M-13	J. R. Barnhart	—	Flat	—	65	6
338	do.	20, NW $\frac{1}{2}$ SW $\frac{1}{4}$	M-13	R. L. Edmonson	Green Mch. Co.	Gentle slope	1937	190	18
339	8 $\frac{1}{2}$ miles south	20, SW cor. SW $\frac{1}{4}$	M-13	do.	—	do.	—	—	7
340	8 miles southeast	2, north end	1	do.	Green Mch. Co.	do.	1937	180	18
341	9 $\frac{1}{2}$ miles southeast	SW cor., E. T. Skipworth		Harry Whitfill	—	Ridge top	1933	—	18
342	10 miles southeast	NW $\frac{1}{4}$ , F. L. Williams		W. T. Watson	C. A. Mullins	Gentle slope	1937	221	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, gasoline; Ng, natural gas; O, diesel or semi-diesel; W, windmill; H, hand; number indicates horsepower.

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
323	0.4	63.2	June 5, 1937	C,W	S	
324	—	—	—	C,W	P	Located near creek.
325	0.6	32.4	July 26, 1937	C,W	D,S	Do.
326	—	61	d/	T,G, 85	I	Irrigated 163 acres in 1937. Reported 18 feet drawdown pumping 1,000 gallons a minute
327	—	60	d/	T,G, 50	I	Irrigated 60 acres feed and cotton in 1937. Estimated yield, 1,000 gallons a minute. Pump set at 96 feet. 240 feet of 16- and 12-inch steel casing, perforated below water level.
328	—	—	—	—	—	Oil test. "Red Beds" at 240 feet.
328a	—	—	—	—	—	Do.
329	—	—	—	—	—	Being drilled for irrigation use.
330	—	—	—	T,G, 85	I	Irrigated 40 acres feed in 1937. Reported yield, 850 gallons a minute.
331	—	—	—	T,G, 85	I	Irrigated 170 acres feed and wheat in 1937. Reported yield, 900 gallons a minute. Pump set at 110 feet. 80 feet of 16-inch steel
332	1.2	64.8	June 5, 1937	T,Ng, 45	I	Measured yield, 1,300 gallons a minute by W. F. Kerr. Pump set at 95 feet. 172 feet of 15-inch perforated steel casing at top. "Red Beds" at 201 feet.
333	—	—	—	T,-, —	I	Reported good well.
333a	—	—	—	None	N	Abandoned. Reported yield, 600 gallons a minute. See log.
334	1.6	79.4	Sept. 24, 1937	T,G, 85	I	Irrigated 25 acres feed in 1937. Reported yield, 850 gallons a minute. See log.
335	0.5	60.9	May 14, 1936	None	N	
336	0.5	51.2	July 15, 1937	C,H	N	
337	3.4	56.3	May 14, 1937	C,W	D,S	Estimated yield, 3 gallons a minute.
338	1.0	60.1	Nov. 3, 1937	T,G, 85	I	Estimated yield, 900 gallons a minute. 60 feet of 16-inch steel casing at top.
339	0.0	47.0	May 14, 1937	C,N	N	
340	—	—	—	T,G, 85	I	Irrigated 240 acres of feed and wheat in 1937. Reported yield, 900 gallons a minute.
341	1.5	56.3	Nov. 3, 1937	T,O, —	I	60 feet of 16-inch steel casing at top.
342	1.0	47.8	do.	None	N	Reported yield, 250 gallons a minute. "Red Beds" at 189 feet.

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

d/ Water level reported.

## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
343	10 miles southeast	NW $\frac{1}{4}$ F. L. Williams	—	W. T. Watson	C. A. Mullins	Gentle slope	1937	225	18
344	9 $\frac{1}{2}$ miles south	SW $\frac{1}{4}$ , W. W. Christie	—	C. A. Burchard	J. C. Cook	Ridge top	1936	195	18
345	10 miles south	NW $\frac{1}{4}$ , W. F. Martin	—	P. G. Wimberly	—	do.	1914	236	60
346	11 miles south	SW $\frac{1}{4}$ , S. N. Jackson	—	W. C. Cowan	W. C. Cowan	Gentle slope	1937	148	18
347	12 miles south	51, NW $\frac{1}{2}$ SE $\frac{1}{4}$	M-13	A. S. Jackson	W. D. Witt	Ridge top	1937	197	18
348	12 $\frac{1}{2}$ miles south	60, NW cor. NW $\frac{1}{2}$	M-13	—	—	Gentle slope	—	—	6
349	11 $\frac{1}{2}$ miles south	51, NW cor. NW $\frac{1}{2}$	M-13	Mrs. Charles M. Elam	Green Mch. Co.	do.	1937	191	18
350	10 $\frac{1}{2}$ miles south	50, NW $\frac{1}{2}$ NW $\frac{1}{2}$	M-13	W. O. Caldwell	— Casebolt	do.	1937	202	18
351	11 miles south	49, NW $\frac{1}{2}$ SE $\frac{1}{4}$	M-13	D. M. Springer	J. C. Cook	do.	1933	190	18
352	11 $\frac{1}{2}$ miles south	52, NW $\frac{1}{2}$ NE $\frac{1}{4}$	M-13	—	—	Flat	—	—	6
353	do.	52, SE $\frac{1}{2}$ NE $\frac{1}{4}$	M-13	Kress High School	—	Gentle slope	—	65	6
354	12 miles south	52, NW cor. SW $\frac{1}{2}$	M-13	—	—	do.	—	—	—
355	11 $\frac{1}{2}$ miles south	52, NW cor. NW $\frac{1}{2}$	M-13	—	J. C. Cook	do.	1934	200	18
356	do.	54, NW cor. NW $\frac{1}{2}$	M-13	D. C. Beaty	D. L. Handley	do.	1937	—	18
357	12 miles south	54, SW $\frac{1}{2}$ SE $\frac{1}{4}$	M-13	—	Green Mch. Co.	Ridge top	1937	—	18
358	12 $\frac{1}{2}$ miles south	56, NE cor. NE $\frac{1}{4}$	M-13	Federal Land Bank	—	Gentle slope	—	—	6
359	do.	57, NW $\frac{1}{2}$ NW $\frac{1}{4}$	M-13	—	Green Mch. Co.	do.	1937	220	18
360	13 miles south	57, SE. cor. SE $\frac{1}{4}$	M-13	Z. J. Thomas	—	Flat	—	89	6
361	14 $\frac{1}{2}$ miles south	64, SW $\frac{1}{2}$ NW $\frac{1}{2}$	M-13	L. Kennedy	— Barton	Gentle slope	1937	202	18
362	14 miles south	64, SW $\frac{1}{2}$ SW $\frac{1}{2}$	M-13	—	—	Slope to lake	—	—	6
363	15 miles south	66, SW $\frac{1}{2}$ NE $\frac{1}{4}$	M-13	—	—	do.	—	—	6

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
343	1.2	46.7	Nov. 3, 1937	T,G, 85	N	Reported yield, 250 gallons a minute. Pump set at 110 feet. No casing. "Red Beds" at
344	1.2	50.6	Nov. 1, 1937	T,G, 60	I	Irrigated 170 acres in 1937. 185 feet. Measured yield, in 1936, 728 gallons a minute. Pump set at 80 feet. 60 feet of perforated steel casing from 135 to 195 feet.
345	0.5	50.5	do.	T,G, —	I	Irrigated 80 acres grain in 1937. Reported yield, 500 gallons a minute. Pump set 75 feet
346	—	—	—	T,Ng, 50	I	Irrigated 150 acres wheat in 1937. See log. Reported yield, 800 gallons a minute. Pump set at 100 feet. 73 feet of 18-inch steel
347	—	65	d/	T,G, 85	I	Irrigated 223 acres in 1937. Reported yield, 900 gallons a minute. Pump set at 100 feet. 20 feet of 16-inch perforated steel casing from 80 to 100 feet. casing at top.
348	3.5	63.6	May 12, 1936	C,W	D	
349	1.0	58.9	Nov. 4, 1937	T,G, 85	I	Irrigated 100 acres in 1937. Reported yield, 900 gallons a minute. Pump set at 96 feet. 191 feet of 16- and 14-inch steel casing, per-
350	1.3	64.7	Nov. 1, 1937	T,G, 85	I	Reported yield, 800 gallons a minute. Pump set at 100 feet. 204 feet of 16- and 14-inch steel casing, perforated below water level. Blue clay at
351	—	60	d/	T,G, —	I	Irrigated 54 acres in 1937. Reported yield, 700 gallons a minute. Pump set at 80 feet. 100 feet of 14-inch perforated steel casing from 40 to 140 feet. 200 feet.
352	0.3	59.4	May 7, 1936	None	N	
353	—	—	—	C,W	P	
354	0.4	61.6	May 12, 1936	C,—	N	Was irrigation well with pump jack and 4-inch water pipe.
355	—	62	d/	T,Ng, 85	I	Irrigated 96 acres feed, wheat and cotton in 1937. Reported yield, 700 gallons a minute.
356	—	—	—	T,G, 85	I	Irrigated 155 acres in 1937. Reported yield, 800 gallons a minute.
357	—	—	—	—	—	Drilling for irrigation well in December 1937.
358	0.4	74.5	May 12, 1936	C,—	N	
359	2.0	75.7	Dec. 1, 1937	T,G, 85	I	Estimated yield, during development test, 850 gallons a minute. Pump set at 108 feet.
360	0	74	May 12, 1936	C,W	D	
361	0.5	73	Sept. 24, 1937	T,G, 85	I	Irrigated 95 acres feed and cotton in 1937. Reported yield, 800 gallons a minute. Pump set at 108 feet. 194 feet of 17- and 13-inch steel casing, perforated below 70 feet.
362	4.2	70	May 12, 1936	C,—	N	
363	0	58.7	May 11, 1936	—	—	



## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
364	13½ miles south	63, NW¼NW¼	M-13	Lincoln Nat'l. Life Ins. Co.	—	Flat	—	—	10
365	14 miles south	63, NW cor. SW¼	M-13	—	—	Slope to lake	—	—	6
366	14½ miles south	NW¼, R. Williams	—	L. J. Knuckles	O. W. Barnett	Ridge top	1937	268	18
367	do.	NE¼NW¼, R. Williams	—	do.	do.	do.	1937	295	18
368	do.	R. F. Hudgins	—	Texas Land & Development Co.	—	Flat	Old	212	26
369	do.	do.	—	do.	—	do.	Old	—	26
370	do.	do.	—	do.	—	do.	1914	348	26
371	15 miles south	P. Tisdell	—	do.	—	Gentle slope	Old	—	26
372	do.	SW¼, H. J. Tisdell	—	do.	—	Gently rolling	Old	—	26
373	14 miles south	51, SW cor. SW¼	M-14	G. E. McGrede	—	Gentle slope	—	—	—
374	do.	51, SW¼SW¼	M-14	do.	Baker Pump Co.	do.	1937	200	18
375	13 miles south	52, SW¼SW¼	M-14	Texas Land & Development Co.	—	do.	Old	—	26
376	12½ miles south	52, NW¼NW¼	M-14	H. F. Artell	— Fox	do.	1937	400	18
377	13 miles south	41, NE¼SW¼	M-14	—	—	Flat	—	92	6
378	13½ miles south	44, NW cor. NW¼	M-14	—	—	Gentle slope	1937	—	—
379	14 miles south	43, NW cor. NW¼	M-14	Joe Bontke	Joe Bontke	do.	1937	222	18
380	14½ miles south	43, SE¼NE¼	M-14	do.	—	do.	—	—	6
381	15 miles south	43, SW¼SE¼	M-14	do.	J. C. Cook	do.	—	—	18
382	14½ miles south	45, NW¼NW¼	M-14	Bob Hooper	—	do.	—	—	6
383	15½ miles south	54, NW cor. NW¼	M-14	Texas Land & Development Co.	—	Flat	Old	208	26
384	do.	54, NW¼NE¼	M-14	do.	—	do.	1915	165	26
385	do.	53, NW cor. NW¼	M-14	do.	—	do.	Old	—	26
386	do.	53, NW¼NW¼	M-14	do.	—	Gentle slope	Old	—	26
401	12½ miles west	100, NW cor. NE¼	M-6	—	—	Ridge top	1933	110	6

Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
364	0.4	73.9	May 12, 1936	None	N	Drilled for irrigation and later abandoned.
365	0.5	69.4	do.	C,W	D	
366	1.3	70.4	Sept. 15, 1937	T,G, --	I	Irrigated 50 acres feed in 1937. Reported yield, 800 gallons a minute. 248 feet of 12-inch steel casing at top, perforated be-
367	--	--	--	T,G, --	I	Reported yield, 1,200 low water level. gallons a minute. 295 feet of 14-inch steel
368	0.	74.	May 4, 1936	T,O, 60	N	Reported casing, perforated below water. good well, but not used.
369	1.5	74.1	do.	T,O, 60	I	Irrigated 150 acres feed, wheat and cotton in 1937. Drawdown, 21 feet, pumping 907
370	1.0	72.6	do.	T,O, --	N	Reported good well but gallons a minute. not used. See log.
371	0.4	67.3	May 7, 1936	T,O, 60	I	Irrigated 110 acres feed and cotton in 1937. Reported yield, 1,100 gallons a minute.
372	1.5	63.6	do.	T,C, 60	I	Irrigated 95 acres feed, cotton and wheat in 1937. Reported yield, 700 gallons a minute.
373	0	71.8	May 6, 1936	C,W	D	
374	--	72	d/	T,G, 85	I	Irrigated 195 acres wheat and cotton in 1937. Reported yield, 950 gallons a minute. Suppl. weakened in summer. Set 16-inch perforated
375	0	58.4	May 7, 1936	C,W	D	steel casing from 50 to 100 feet.
376	1.3	69.9	Nov. 3, 1937	T,G, 85	I	Irrigated 96 acres in 1937. Reported 26 feet drawdown pumping 900 gallons a minute for 4 hours. Pump set at 130 feet. See log.
377	0	74.	May 6, 1936	C,W	D	
378	--	--	--	--	--	Drilling for irrigation well in September, 1937.
379	--	61	d/	T,G, 85	I	Irrigated 80 acres feed and wheat in 1937. Reported yield, 700 gallons a minute. 14-inch perforated steel casing from 50 to 134
380	0.3	54.5	May 6, 1936	C,W	S	feet.
381	1.6	64.8	do.	None	N	Drilled for irrigation. Reported yield, 350 gallons a minute.
382	0	66	do.	C,W	D	
383	1.5	72.2	Apr. 18, 1934	T,O, 60	I	Irrigated 50 acres feed and cotton in 1937.
384	1.5	61.6	do.	None	N	
385	0.3	68.4	May 4, 1936	T,-	N	Reported good well but not used.
386	3.5	70.8	Sept. 21, 1937	T,O, --	I	Irrigated 153 acres feed, wheat and cotton in 1937. Reported yield, 1,000 gallons a
401	0.6	95.2	Sept. 14, 1937	C,W	N	minute.

## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
402	9 miles west	20, NW cor. NW $\frac{1}{4}$	M-6	Lakeview School	—	Slope	—	100	6
403	8 miles west	20, NE cor. SE $\frac{1}{4}$	M-6	—	—	Above draw	Old	100	6
404	do.	5, SW $\frac{1}{4}$ SW $\frac{1}{4}$	M-11	Louis Redmon	W. C. Cowan	Ridge top	1937	242	18
405	3 $\frac{1}{2}$ miles southwest	1, SW $\frac{1}{4}$ NE $\frac{1}{4}$	M-11	A. A. Vaughn	R. J. Stallings	do.	1937	190	26
406	8 $\frac{1}{2}$ miles southwest	6, SE cor. SE $\frac{1}{4}$	K-2	McGuire School	—	Gentle slope	—	100	6
407	7 $\frac{1}{2}$ miles southwest	14, NW $\frac{1}{4}$ SW $\frac{1}{4}$	K-2	L. W. Abbot	Bill Muney	—	1937	229	18
408	7 miles southwest	15, SW $\frac{1}{4}$ SE $\frac{1}{4}$	K-2	J. A. Ellis	Green Mch. Co.	Gentle slope	1937	202	18
409	8 miles southwest	4, NW $\frac{1}{4}$ NE $\frac{1}{4}$	K	Ross Wingo	— Bartlett	—	1936	190	18
410	9 $\frac{1}{2}$ miles south	9, NW $\frac{1}{4}$ SW $\frac{1}{4}$	K	E. E. Cox	Green Mch. Co.	Ridge top	1936	167	18
411	10 miles south	13, SW $\frac{1}{4}$ NE $\frac{1}{4}$	K	Cecil Rousser	do.	do.	1937	200	18
412	10 miles southwest	10, SE $\frac{1}{4}$ SW $\frac{1}{4}$	K	L. M. Frogge	do.	do.	1936	200	18
413	do.	11, SW $\frac{1}{4}$ NE $\frac{1}{4}$	K	C. B. Jones	— Tye	do.	1936	190	18
414	10 $\frac{1}{2}$ miles southwest	15, NW $\frac{1}{4}$ NW $\frac{1}{4}$	K	M. C. Vinyard	Green Mch. Co.	Gentle slope	1937	200	18
415	12 miles southwest	21, SW $\frac{1}{4}$ NW $\frac{1}{4}$	K	T. B. Carter	F. Lard	Ridge top	1937	309	18
416	12 $\frac{1}{2}$ miles southwest	22, SW $\frac{1}{4}$ NW $\frac{1}{4}$	K	H. R. Budke	—	Gentle slope	1934	200 (?)	18

## Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
402	—	—	—	C,W	P	
403	3.7	81.3	Sept. 14, 1937	C,H	N	
404	1.8	105.1	Oct. 27, 1937	T,G, 85	I	Irrigated 115 acres feed and alfalfa in 1937. Reported yield, 850 gallons a minute. Pump set at 130 feet. 130 feet of 14-inch steel casing at top, perforated below water level.
405	—	68	d/	T,G, 45	I	Irrigated 163 "Red Beds" at 242 feet. acres feed, wheat and cotton in 1937. Reported yield, 850 gallons a minute. Pump set at 110 feet. 110 feet of 20-inch steel casing at top, perforated below water level.
406	—	—	—	C,W	P	Sand and gravel from 165 to 190 feet.
407	—	91	d/	T,G, —	I	Irrigated 280 acres feed, wheat and cotton in 1937. Reported 39 feet drawdown pumping 900 gallons a minute. Pump set at 126 feet. 229 feet of 14-inch steel casing perforated
408	1.0	87.9	Sept. 24, 1937	T,G, 85	I	Irrigated 75 acres feed below water level. in 1937. Estimated yield, 750 gallons a minute. 202 feet of 16-, 14-, and 12-inch steel casing, perforated below water level.
409	—	70	d/	T,G, 85	I	Irrigated 290 acres feed and wheat in 1937. Reported yield, 800 gallons a minute. 190 feet of 16-inch steel casing, perforated
410	1.0	93.7	Sept. 23, 1937	T,G, 85	I	Irrigated 525 acres below water level. feed and wheat in 1937. Reported 24 feet drawdown pumping 800 gallons a minute for
411	1.0	89.9	do.	T,G, 85	I	Irrigated 3 weeks. Pump set at 114 feet. 190 acres feed and wheat in 1937. Reported yield, 900 gallons a minute. Pump set at 112 feet. 150 feet of 16- and 12-inch per-
412	1.0	98.5	Sept. 24, 1937	T,G, 85	I	Irrigated perforated steel casing at bottom. 365 acres feed, grain and cotton in 1937. Reported 20 feet drawdown pumping 800 gallons a minute for 20 minutes. Pump set at 120 feet. 18-, 16-, and 14-inch perforated steel
413	—	88	d/	T,G, 85	I	Irrigated casing from 30 to 200 feet. 280 acres wheat, cotton and corn in 1937. Reported 28 feet drawdown pumping 800 gallons a minute. Pump set at 120 feet. 190 feet of 16- and 12-inch steel casing, perforated
414	1.0	98.1	Sept. 23, 1937	T,G, 85	I	Estimated yield, 775 below 91 feet. gallons a minute. Pump set at 120 feet. 194 feet of 15-inch steel casing, perforated
415	—	96	d/	T,G, 85	I	Irrigated 300 acres below water level. feed, wheat and beans in 1937. Reported 35.5 feet drawdown pumping 900 gallons a minute for 10 hours. Pump set at 140 feet.
416	—	—	—	T,G, —	I	Irrigated 170 acres feed and barley in 1937. Reported yield, 900 gallons a minute.

## Records of wells in Swisher County—Continued

No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topographic situation	Date completed	Depth of well (ft.)	Diameter of well (in.)
417	13½ miles southwest	87, SW¼SE¼	M-11	Rousser Bros.	Green Mch. Co.	Ridge top	1936	210	18
418	15 miles southwest	93, NW cor. NW¼	M-11	O. Milner	—	Gentle slope	1937	210	26
419	13½ miles southwest	69, NE¼NW¼	M-11	N. D. Goldsmith	Green Mch. Co.	Ridge top	1937	200	18
420	17½ miles southwest	13, NW cor. NW¼	K-3	W. M. Stalcup	G. Gorman	Gentle slope	1937	228	18
421	19½ miles southwest	9, NW¼NW¼	K-3	A. V. Perryman	— Sawyer	do.	1937	240	20
422	16 miles southwest	30, NE¼SW¼	K	G. E. Curry	— Bartlett	Ridge top	1937	204	18
423	17 miles southwest	35, SW¼NW¼	K	R. Q. Silverthorn	Baker Pump Co.	do.	1937	260	18
424	16 miles southwest	35, NE cor. NE¼	K	A. McDaniel	Green Mch. Co.	do.	1937	202	18
425	17 miles southwest	39, SE¼NW¼	K	E. E. Degge	J. C. Cook	do.	1936	293	18
426	do.	46, NW¼NE¼	K	J. P. Qualls	do.	Gentle slope	1935	275	18
427	14 miles southwest	31, SW¼SW¼	K	—	—	Flat	Old	104	6
428	13 miles southwest	23, NE¼SW¼	K	—	—	—	—	—	6
429	13 miles south	J. A. Ward NW cor.	—	C. Reed	Green Mch. Co.	Gentle slope	1937	198	18
430	do.	18, NW¼NW¼	C-4	do.	—	do.	Old	90	6
431	9½ miles south	East of SW cor. sec. 36,	M-13	V. R. Hill	Green Mch. Co.	do.	1937	208	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, gasoline; Ng, natural gas; O, diesel or semi-diesel; W, windmill; H, hand; number indicates horsepower.

Records obtained by C. R. Follett

No.	Height of measuring point above ground (ft.) a/	Water Level		Pump and power b/	Use of water c/	Remarks
		Depth below measuring point (ft.)	Date of measurement			
417	--	95	d/	T,G, 50	I	Irrigated 173 acres in 1937. Reported yield, 1,200 gallons a minute. 144 feet of 16- and 14-inch steel casing at top, perforated be-
418	1.0	75.7	Oct. 6, 1937	T,G, 40	I	Irrigated 180 acres feed <u>low water level.</u> and wheat in 1937. Reported yield, 1,000
419	1.5	110.5	Oct. 27, 1937	T,G, 100	I	Irrigated 240 acres feed <u>gallons a minute.</u> in 1937. Reported yield, 1,200 gallons a minute. Pump set at 140 feet. 200 feet of 16- and 14-inch steel casing, perforated be-
420	2.0	69.5	Oct. 6, 1937	T,G, 32	I	Reported yield, 1,000 <u>low water level.</u> gallons a minute. Pump set at 80 feet. 200 feet of 16-inch steel casing at top, perfor-
421	--	60	d/	T,G, 50	I	Irrigated 80 acres <u>ated below water level.</u> in 1937. Reported yield, 1,200 gallons a minute. Pump set at 100 feet. 230 feet of 20-inch steel casing at top, perforated be-
422	2.0	70.3	Oct. 6, 1937	T,G, 85	I	Irrigated 245 acres feed, <u>low water level.</u> wheat and cotton in 1937. Reported yield, 1,000 gallons a minute. Pump set at 90 feet. 204 feet of 16- and 14-inch steel casing, per-
423	1.2	65.8	Oct. 7, 1937	T,G, 85	I	Irrigated 230 <u>forated below water level.</u> acres feed and wheat in 1937. Reported
424	2.0	71.7	do.	T,G, 85	I	Irrigated <u>yield, 1,000 gallons a minute.</u> 80 acres in 1937. Reported yield, 900 gallons a minute. Pump set at 108 feet. 202 feet of 16- and 14-inch steel casing, per-
425	1.2	70.2	do.	T,G, 35	I	Irrigated 186 <u>forated below water level.</u> acres in 1937. Reported yield, 900 gallons a minute. Pump set at 90 feet. 15- and 12-inch perforated steel casing from 45 to 210
426	0.7	62.5	do.	T,G, --	I	Irrigated 243 acres feed and wheat <u>feet.</u> in 1937. Reported yield, 900 gallons a minute. Pump set at 80 feet. 100 feet of 16-inch steel casing at top, perforated be-
427	3.0	85.8	July 17, 1937	C,W	S	<u>low water level.</u>
428	0.3	88.7	May 12, 1937	None	N	
429	3.5	96.7	Sept. 23, 1937	T,G, 85	I	Estimated yield, 700 gallons a minute.
430	0.4	87.5	July 28, 1937	C,W	S	
431	--	--	--	T,G, --	I	Irrigated 220 acres feed and wheat in 1937. Reported yield, 800 gallons a minute.

c/ I, irrigation; P, public; 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>Driller's log of well 19</u>		
D. E. Armontrout farm. 9 $\frac{1}{2}$ miles north-west 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
TOTAL DEPTH - - - - -	-	224

First water at 83 feet.

CASING RECORD: 224 feet of 14-inch steel casing, perforated below water level.

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 36</u>		
Foster Klaus farm. 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
Packed sand - - - - -	7	145
Soft coarse-grained sand - - - - -	40	185
Shale - - - - -	4	189
Hard sand - - - - -	15	204
Shale and sand rock - - - - -	22	226
TOTAL DEPTH - - - - -	-	226

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 108</u>		
D. D. Augspurger farm. 16 $\frac{1}{2}$ miles north-east 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
TOTAL DEPTH - - - - -	-	210

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 124</u>		
W. C. Watson farm. 10 $\frac{1}{2}$ miles east of Tulia.		
(Formation unknown) - - - - -	30	30
White clay - - - - -	6	36

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 124--Continued</u>		
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
Brown clay - - - - -	26	128
Sandy clay - - - - -	46	174
Red gumbo clay - - - - -	6	180
Red sand and gravel - - - - -	4	184
Red beds - - - - -	4	188
TOTAL DEPTH - - - - -	-	188

CASING RECORD: 120 feet of 16-inch casing at top, perforated below water level.

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 132</u>		
A. & H. Price farm. 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 packed sand - - - - -	4	54
Hard flint rock - - - - -	6	60
Coarse-grained gray water sand - - - - -	4	64
Hard red sand rock - - - - -	11	75
Coarse-grained gray water sand - - - - -	6	81
Loose red water sand - - - - -	5	86
Hard gray sand - - - - -	3	89
Soft white clay - - - - -	1	90
Packed gray water sand - - - - -	5	95
Loose red water sand - - - - -	4	99
Hard gray sand rock - - - - -	23	122
Loose 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

(Continued on next page)

Table of Drillers' Logs, Swisher County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 132--Continued</u>		
Blue gumbo- - - - -	3	214
Coarse-grained gray water sand- - - - -	5	219
Hard red sand rock- - - - -	10	229
Red clay- - - - -	31	260
<b>TOTAL DEPTH- - - - -</b>		<b>260</b>

Driller's log of well 220  
-- Gunter farm. 10 miles southeast of Tulia.

Surface soil- - - - -	3	3
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
<b>TOTAL DEPTH - - - - -</b>		<b>234</b>

Driller's log of well 227  
N. G. Poe farm. 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
<b>TOTAL DEPTH- - - - -</b>		<b>204</b>

CASING RECORD: 75 feet of 18-inch, 12-gage pipe; 129 feet of 12-inch shutter-type screen.

Driller's log of well 302  
J. D. Vaughn farm. 1 1/4 miles southwest of Tulia.  
(Formation unknown) - - - - -

(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
<b>TOTAL DEPTH- - - - -</b>		<b>233</b>

Driller's log of well 315  
F. J. Vannerson farm. 6 1/2 miles southeast of Tulia.

(Formation unknown) - - - - -	50	50
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	Thickness (feet)	Depth (feet)
<u>Driller's log of well 315--Continued</u>		
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 packed sand- - - - -	105	205
<b>TOTAL DEPTH- - - - -</b>		<b>205</b>

Driller's log of well 333a  
R. B. Skipworth farm. 9 miles south of Tulia.

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
Packed sand- - - - -	62	183
Sand and gravel- - - - -	7	190
Hard rock- - - - -	4	194
Red clay- - - - -	1	195
<b>TOTAL DEPTH - - - - -</b>		<b>195</b>

CASING RECORD: 46 feet of 22-inch casing; 46 feet of 20-inch, perforated; 92 feet of 12-inch, perforated; bottom 11 feet uncased.

Driller's log of well 334  
H. Sands farm. 10 1/2 miles south of Tulia.

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
Packed sand and clay- - -	40	183
Layered red clay and spongy sand- - - - -	40	223
Gray sand- - - - -	16	239
Spongy sand with spots of sandstone- - - - -	2	241
<b>TOTAL DEPTH- - - - -</b>		<b>241</b>

CASING RECORD: 240 feet of 16-inch and 14-inch steel casing at top, perforated below water level.

Driller's log of well 345  
P. G. Wimberley farm. 10 miles south of Tulia.  
(Formation unknown) - - - - -

(Formation unknown) - - - - -	50	50
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Table of Drillers' Logs, Swisher County--Continued

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 345--Continued</u>		
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
TOTAL DEPTH - - - - -		236

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 370</u>		
Texas Land & Development Co. tract. 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

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 370--Continued</u>		
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
TOTAL DEPTH- - - - -		348

	Thickness (feet)	Depth (feet)
<u>Driller's log of well 375</u>		
H. F. Artell farm. 12 $\frac{1}{2}$ miles south of Tulia.		
(Formation unknown) - - -	45	45
Dry sand- - - - -	31	76
Flint rock- - - - -	3	79
Caliche and boulders- -	61	140
Water sand- - - - -	3	143
Caliche- - - - -	43	186
Water sand- - - - -	4	190
Red beds- - - - -	96	288
Water sand- - - - -	2	290
Red beds- - - - -	97	387
Water sand- - - - -	3	390
Blue clay- - - - -	10	400
TOTAL DEPTH- - - - -		400
CASING RECORD: 77 feet of 15-inch steel casing at top.		

Partial analyses of water from wells in Swisher County, Texas

(Analyzed at the University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry; by J. E. Stulken, D. F. Riddell, H. T. Davidson, Floyd H. Ward, and F. G. Steer, Chemists; and J. A. Harmaza, Martin Wieland, and Jack Ramsey, Assistant Chemists. Nitrate determined by E. W. Lohr, U. S.

Geological Survey. Results are in parts per million. Well numbers correspond to numbers in the table of well records.)

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulfate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
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	R. Simmons	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	J. B. Johnson	65	Sept. 13, 1937	398	-	-	-	323	61	30	a/	-
53	City of Tulia	160	Dec. 2, 1937	-	-	-	-	-	39	20	a/	-
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	19	244	47	25	a/	245
110	T. W. Payne	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
205	Elkins School	48	do.	340	57	28	37	305	39	25	a/	257
208	Love School	55	Dec. 2, 1937	-	-	-	-	-	61	30	a/	-
216	Ben Finegold	179	Nov. 10, 1937	311	56	30	24	323	22	20	a/	264
236	E. R. Lovern	232	Nov. 9, 1937	337	32	46	38	348	29	16	a/	269
320	Smith & Barnhart	200	Dec. 2, 1937	322	50	33	31	342	25	15	a/	260
321	Miss Alice Harrel	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
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	65	May 14, 1937	502	80	57	23	336	89	76	a/	435
338	R. L. Edmonson	190	Nov. 3, 1937	379	69	35	27	336	43	40	a/	317
353	Kress High School	65	Dec. 3, 1937	-	-	-	-	-	29	12	a/	-

a/ Nitrate less than 20 parts per million.

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Partial analyses of water from Swisher County--Continued

Results are in parts per million.

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (calculated)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na / K) (calculated)	Bicarbonate (HCO <sub>3</sub> )	Sulphate (SO <sub>4</sub> )	Chloride (Cl)	Nitrate (NO <sub>3</sub> )	Total hardness as CaCO <sub>3</sub> (calculated)
359	--	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. Vinyard	200	do.	327	67	36	9	254	29	12	a/	318
429	C. Reed	198	do.	281	67	29	-	287	29	15	a/	288

a/ Nitrate less than 20 parts per million.

- EXPLANATION-
- WELL WITH HAND PUMP, BUCKET OR BALER
  - ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
  - ⊙ WELL WITH PUMPING PLANT-5 HORSE POWER OR LARGER
  - ◇ UNUSED WELL
  - ⊕ WELL DRILLED TO TEST FOR OIL OR GAS
  - IMPROVED ROAD
  - - - UNIMPROVED ROAD

# MAP OF SWISHER COUNTY, TEXAS

## SHOWING LOCATIONS OF WATER WELLS LISTED



FIELD WORK BY  
C. R. FOLLETT  
PROJECT SUPERINTENDENT

BASE COMPILED FROM  
LAND OWNERSHIP MAP  
AND FIELD NOTES

GEOLOGICAL SURVEY  
U. S. DEPARTMENT OF THE INTERIOR  
COOPERATING WITH  
TEXAS BOARD OF WATER ENGINEERS

