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SWISHER COUNTY, TEXAS

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

* * *

by

C. R. Follett

* * *

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.

Austin, Texas Apr. 16, 1938

SWISHER COUNTY, TEXAS

* * *

Introduction
by
Walter N. White
Senior Hydraulic Engineer.
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 Ressettlement 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 we				her County, Ter indicated in '		colu	ımn.)	
		1							
No.	Distance	Section	Block	Owner	Driller	Topo-	Date	Depth	Diam-
	from	or			,	graphic	com-	of	eter
	Tulia	Survey				situ-	ple-	well	of
						ation	ted	(ft.)	well
									(in.)
7	13 miles	10,	M6	Will Vaughan	E. R. Sprawls	Gentle	1936	203	18
		NW cor. NW	1			slope			
2	12 miles	63,	M-8	I. Irlbeck		Edge of	Old	94	6
~		NW cor. SW4	•			lake			
73	12 miles	63,	M-8	A. A. Fonkon		Gentle	1907	102	6
Ŭ	north	NE cor. NE		20111011		slope			
4	lla miles	63,	M-8	G. A. Life		Edge of		95	
•	northwest	SE 1 SE1	M - 0	Ins. Co.		lake			
5		87,	M-8	County Road		do.	1937	78	6
J	uo.	NW cor. NW	ŧ	ocurry mad		u o.	1307	, ,	
	12 miles	48,	M-9	T. W. Lakoc	W. D. Witt	Ridge	1937	200	18
O	north	se <u>l</u> ne	1/1-3	1. W. Lance	M. D. MICO		1907	200	10
		49,	M-9	do.	Sprawls &	top - Gintle	1935	200	18
($11\frac{1}{2}$ miles		1/1-9	uo.	-		1900	200	10
	north 11 miles	NM FNM F	M-9	do.	Miller	slope	1935	200	18
0		49,	M-9	uo.	do.	do.	1900	200	10
	north	SE NW L	14.0	77. 3 F	<i>[7]</i>	D: 3	3.000	000	10
9	9 miles	58,	M9	Fred Lamar	Truper Hall	Ridge	1937	220	18
	north	sw <u>ł</u> ne <u>ł</u>	75.0			top			
10	$8\frac{1}{2}$ miles	57,	M-9	Dewitt Parker	Henry Patzig	do∙	1937	217	18
	north	NE NW !							
11	9 miles	51,	M-9	T. J. Avent	and the same	Slope		91	6
	north	SW cor. NW							
12	10 miles	86,	M-8	C. D. Taylor		Edge of		72	6
	north	SE 1 NE1				lako			
13	$9\frac{1}{8}$ miles	115,	M - 8	B. F. Smith		Level	01d	85	
	north	SW i SWi							
14	8 <mark>1</mark> miles	116,	M-8	W. Bruening		Gentle		64	
	north	SEANE A				slope			
.15	7½ miles	17,	M-9	R. Simmons		Level	Old	99	6
	north	NW #NE #							
16	7 miles	117,	M-8	·		Slope		78	
	northwest	SW4SE4				to draw			
17	$7\frac{1}{2}$ miles	117,	M-8	Kaffir School		do.		85	
	northwest	NE4SW4							
18	8 <mark>호</mark> miles	84,	M-8	H. C. George		Gentle		85	
	northwest	NE cor. NE4				slope			
19	9½ miles	18,	M-8	D.E.	R. P.	Ridge	1937	224	14
	northwest	nw isw i		Armontrout	McDaniels	top			
20	$11\frac{1}{2}$ miles	11,	M6	P. S.		Gentle	1936	200	18
j		SW cor. SW1		Claiborne		slope			
721	ll miles	29,	M-6	Chil dr ess		do.		105	
		SE cor. SE1		School					
22	12½ miles	53,	M-6	Clarence Todd	- Hall	Ridge	1937	230	18
	northwest	nw l swł				top			
1		#* * * * * * * * * * * * * * * * * * *				-]
23	12 miles	65,	M-6	W. C. Cowan	do.	do.	1937	203	18
-	west	NW 4SW 4							
		· 연기 · · · ·							
24	ll de miles	65,	M-6	do.	do.	do.	1937	217	21
	west	NW 1SE 1		· -					į
		₩ * ™			* *	1			
									

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.

	Height of	Water	Level		l	
No.	_			Pumn	Use	Remarks
110.	point		measure-	and	of	a stypicam as a
	above	measu		power	•	
	ground	ing po		<u>b</u> /	c/	
	(ft.) a/			Ξ/	<u> </u>	
1	1.1		Oct. 18,	T,G,	ī	Irrigated 77 acres wheat and truck in 1937.
			1937	40		Reported yield, 550 gallons a minute with 7
2	0.6		July 26, 1937		N	feet drawdown. Pump set at 164 feet 12-inch casing from 168 to 188 feet
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	И	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	<u>d</u> /	T,G, 85	Ī	Irrigated 30 acres feed in 1937. Reported yield, 700 gallons a minute. "Red Beds" at
10	1.5	76.7	Nov. 29, 1937	T,G, 85	I	Irrigated 70 acres 220 feet. No casing. feed in 1937. Reported yield, 600 gallons
11	0.0	86.4		С, Я	N	a minute. Pump set at 140 feet.12 inch casing from 177 to 217 feet.
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		July 24, 1937	C,W	D,S	
16	0.1	61.5		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	Р	501 WVIII
22	1.4	103.8	Oct. 28, 1937	T,G, 50	I	Reported 46 feet drawdown pumping 750 gallo a minute. Sand and gravel from 210 to 226 feet. "Red Bods" at 228 feet. Irrigated
23	1.0	89.9	Oct. 27, 1937	None	N	Drilled 130 acres wheat and feed in 1937. for irrigation. Reported yield, 500 gallon a minute. Sand and gravel from 185 to 203
24	1.4	87.8	do.	None	N	Drilled for feet. "Red Beds" at 203 feet. 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.

-5-

		_		-5-					
		Record	ls of V	wells in Swishe	r County-Cont	inued			1
~~		,	D	0	There's There's	m	Dat-	[D:-1-	Diam
No.	Distance	s Section	Block	Owner	Driller	四のアウー	}	Doput	1
	from	$\circ \mathbf{r}$	1			usi pro	com-	of	eter
	Tulia	Survey	1		}	situ-	: -	woll	of
	1					ation.	ted	(ft.)	woll
									(in.)
25	9를 miles	15,	M-6	H. D. Lindley	E. R. Sprawls	Ridge	1936	213	18
	northwest	NW =NE =	Ì			top			
26	8 miles	20,	M-8	D. A. Nix	R. P.	Centle	1937	214	18
	northwest	SW2SW2	1		McDanials	31one			
					ī				
27	do.	გე,	M-8	do.	do.	đo.	1937	175	18
		NW 1SW 1			•	_	•		
28	7를 miles	30,	M-8	H. Allison		Ridge			18
20	northwest	SW4NW4	1	11. 10011	1	top			
20	7 miles	30,	M-8	do.	 	Gentle			18
చ్		SW cor. NE	MI-0	40.		slone			1
30			M-8	do.	<u> </u>	do.			18
50	do.	30,	1 1V1~0	40.		uo.			10
77	67	NE INE I	M-8	7.	Baker Pump.	Didoo	1937	190	18
31	$6\frac{1}{2}$ miles	71,	M-8	do.	-	Ridge	1907	190	10
	northwest	NE NW L	76.0	4 0 T	Co.	top	3000	- 543	
32	7 miles	69,	M-8	A. C. Julch	Green Mch.	do.	1935	240	18
	northwest	SW SE			Co.			1	
			 						
33	6 miles	31,	M8	W. C. Hulsey	Buck Price	do.	1936	245	18
	northwest	NW2SW2							<u> </u>
34	5분 miles	80,	M-8	₫o.	do.	Gentle	1936	245	18
	northwest	VM-TIM-F				slope		<u> </u>	
35	5 miles	121,	i M-8	do•	do.	do.	1936	245	18
	northwest	NW cor. NW1	<u> </u>	[
36	41 miles	2,	77-1	Foster Klaus	Layne Pump	do•	1913	226	26
	northwest	NW cor. SE			Co.				
37	$3\frac{3}{4}$ miles	3,	W-1	J. B. Johnson		do.			18
	northwest	NE∃SW∃							
38	$3\frac{1}{4}$ miles	3,	W-1	do.		do.	01d	65	6
	northwest								
39	33 miles	15,	7-1	Mrs. Bana Ray	- Gorman	do.	1937	210	18
	north	SW 4SE 2		,					
		44	ł					1	
40	41 miles	18,	:/-1	A. B. Haile	W. P. Witt	Ridgo	1937	285	18
	north	NENW		1		top	100,	200	-
	1101 011	1417-71444.7				v Op			
41	l½ miles	38,	17-1	B. Youngblood	E. R. Sprawls	Gentle	1937	126	18
	east	sw inwi	14-7	D. 10mgb100d	n. m. obrawra	slope	1307	120	10
42		38,	W-1	do.	do.		1037	147	18
46	do.	NW cor. SW:		uo.	uo.	do.	1937	143	1 10
4.77	3.				2 -		7.077.6	3.05	10
43	₫o•	38,	W-1	₫o.	do.	do∙	1936	195	18
		SW-NW-	117				3.625	 	
44	do.	38,	W-1	do.	do.	do.	1936	146	18
	3	NWaSW4	7,7 =	B D ~ =					<u> </u>
45	1 mile	27,	W-1	E. R. Sprawls	do.	Ridge	1934	238	18
	east	SW 4SE4	1			top			•
					- Production - American - America				
46	do.	27,	₩-1	do.	do∙	Gentle	1937	149	18
		nw i sei	į			slose			
47	do.	27,	W-1	T. M. Stith	E. R. Sprawls	₫o•	1937	147	18
		NW _ NE							

-6Records obtained by C. R. Follett

26 - None N set at 120 feet, "Red Leds" at 208 for prilled for irrigation. Reported yield, 400 gallons a minute. "Red Beds" at 189 feet.				Re	cords o	btaine	ed by C. R. Follett
No. measuring Depth Date of Pump Dec Delow measure Decomposition Decomposition		Height of	Water				
point above ground ing point b/ s/ ft. 2 ft. 2	No.				Pump	Use	Remarks
Above Description Descri	į	12		1	and	of	
ground (ng point (ft.) 25 (ft.) 25 (ft.) 25 1.0 81.3 Cot. 29, R.G. 1 1937 85 a minute. Irrigated 329 cores in 1237. Per 25		•	measui	r- ment	power	water	
(ft.)		ground	•				
25						-	
1937 85 a minute. Irrigated 328 scree in 1837, Funce 268	25				T,G,	I	Reported 32 fest drawdown sumping 300 gallons
				1937			a minute. Irrigated 329 acres in 1937. Fuor
Drilled for irrigation. Reported yield, 400 gallons a minute. Rad Beds" at 189 fact. 287	26				None	N	set at 120 feet. "Red Leds" at 208 for.
T.G. No. Brilled for irrigation. Resperted yield, 285 seguinous a minute. Wied Bols' at 175 feet.							Drilled for irrigation. Reported yield, 400
T.G. No. Brilled for irrigation. Resperted yield, 285 seguinous a minute. Wied Bols' at 175 feet.							gallons a minute. "Rad Beds" at 189 feet.
28	27				T,G,	N	Drilled for irrigation. Reported yield, 250
1937 Supply. 100 66.4 do. None N Do.					85		gallons a minute. "Red Bels" at 175 feet.
29 1.0 66.4 do. None N Do.	28	1.4	75	Oct. 28,	None	N	Drilled for irrigation. Reported very weak
29 1.0 66.4 do. None N Do.	:			1937		1	supply.
30	29	1.0	66.4	do.	None	N	
1.0 60.2 do. T.G. I Reported yield, 800 gallons a minute. No casing.							
1.0 60.2 do. T.G. I Reported yield, 800 gallons a minute. No casing.	30	0.0	62.3	do.	None	N	Do.
32 1.3 77.2 do. T.G. I Irrigated 292 acres in 1937. Reported 37 foot drawdown, pumping 1,200 gallons a minute for 140 hours. Pump set at 120 feet.							
32 1.3 77.2 do. T.G. I Irrigated 292 acres in 1937. Reported 37 foot drawdown, pumping 1,200 gallons a minute for 140 hours. Pump set at 120 feet.	31	1.0	60.2	do.	T,G,	T	Reported yield, 800 gallons a minute. No
1.3							
40	32	1.3	77.2	ão.		I	Irrigated 292 acres in 1937. Reported 37
			1				
33							
S5	33				T.G.	I	
T,G,					1		
S5	34					† T	
T,C,					1	+	• • • •
85	35					T	
36	00					1	
1937 100 10ns a minute. Pump set at 110 feet. See 37 1.0 63.7 Sopt.13, T.G., I Irrigated wheat, 550 hours, pumping log. 1937 35 850 gallons a minute.	36	4.5	59.3	June 5.		 	
1.0	00	1.0	03.0	1		-	
1937 35 850 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, T,G,	37	1.0	63.7			T	
38	0,	1.0	00.	1 -	1	_	the state of the s
1.5 55.7 Nov. 30, T.G. I Reported yield, 1,100 gallons a minute. Pump set at 120 feet. Set 210 feet of 14— inch steel crising, perforated below water inch steel crising, perforated inch	38	0.3	55.3			D.S	
Pump set at 120 feet. Set 210 feet of 14— inch steel crsing, perforated below water 40 61 d/ T,G, I Trigated 167 weres truck, wheat and level. 85 feed in 1937. Reported 38 feet drawdown pumping 900 gallons a minute. Pump set at 41 — None N Drilled 100 feet. "Red Beds" at 276 feet. for irrigation. Reported yield, 300 gallons 42 — T,G, N Do. la minute. 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, I Trigated 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, T,G, I Trigated 25 acres feed in 1937. Reported 1937 85 yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No casing. 47 — 63 d/ T,G, I Trigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pump- ing 700 gallons a minute for 168 hours.	00	0.0	00.0	10.	,,,,	2,0	production and a serious a minato.
Pump set at 120 feet. Set 210 feet of 14— inch steel crsing, perforated below water 40 61 d/ T,G, I Trigated 167 weres truck, wheat and level. 85 feed in 1937. Reported 38 feet drawdown pumping 900 gallons a minute. Pump set at 41 — None N Drilled 100 feet. "Red Beds" at 276 feet. for irrigation. Reported yield, 300 gallons 42 — T,G, N Do. la minute. 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, I Trigated 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, T,G, I Trigated 25 acres feed in 1937. Reported 1937 85 yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No casing. 47 — 63 d/ T,G, I Trigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pump- ing 700 gallons a minute for 168 hours.	39	1.5	55.7	Nov. 30.	T. G	+ +	Reported vield, 1.100 callons a minute.
inch steel cosing, perforated below weter 40 - 61 d/ T.G., I Irrigated 167 neres truck, wheat and level. 85 feed in 1937. Reported 38 feet drawdown pumping 900 gallons a minute. Pump set at 41 - None N Drilled 100 feet. "Red Beds" at 276 feet. for irrigation, Reported yield, 300 gallons 42 - T.G., N Do. a minute. 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., 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, T.G., I Irrigated 25 acres feed in 1937. Reported 1937 85 yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pump- ing 700 gallons a minute for 168 hours.		1.00	00.	1	1,0,	-	
40 — 61 d/ T,G, I Irrigated 167 heres truck, wheat and level. 85 feed in 1937. Reported 38 feet drawdown pumping 900 gallons a minute. Pump set at 41 — None N Drilled 100 feet. "Red Beds" at 276 feet. 42 — T,G, N Do. la minute. 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, 200 gallons a minute. "Red Beds" at 140 feet. 45 — 60 d/ T,G, 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, T,G, I Irrigated 65 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, I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.				1507			
feed in 1937. Reported 38 feet drawdown pumping 900 gallons a minute. Pump set at 41 None N Drilled 100 feet. "Red Beds" at 276 feet. for irrigation. Reported yield, 300 gallons 42 None N Drilled for irrigation. Reported yield, 200 gallons a minute. 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., 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, T.G., I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	40	****	61	a/	т. G.	 	
pumping 900 gallons a minute. Pump set at 41 None N Drilled 100 feet. "Red Beds" at 276 feet. for irrication, Reported yield, 300 gallons 42 None N Do. a minute. 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., 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, T.G., 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., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.			01	<u> </u>	1	-	· · · · · · · · · · · · · · · · · · ·
41 — — None N Drilled 100 feet. "Red Beds" at 276 feet. for irrication. Reported yield, 300 gallons 42 — — T.G., N Do. a minute. 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., 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, T.G., 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., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.							· · · · · · · · · · · · · · · · · · ·
for irrigation, Reported yield, 300 gallons 42 T,G, N Do. a minute. 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, 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, T,G, I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T,G, I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	41		 		None	N	
42	* *				1.0110	1	
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., 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, T.G., I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	42				T. G.	N	· · · · · · · · · · · · · · · · · · ·
None None N Drilled for irrigation. Reported yield, 200 gallons a minute. "Red Beds" at 140 feet. Ad	-⊷	in the state of th			1	1	la minutes
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. 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, T.G. I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G. I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	43		† -			INT	Brilled for irrication. Reported viald 200
44 None N Drilled for irrigation. Reported yield, 300 gallons a minute. "Red Beds" at 146 feet. 45 - 60 d/ T.G., 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, T.G., I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	10				1,0116	1	
gallons a minute. "Red Beds" at 146 feet. 45 - 60 d/ T.G., 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 l.0 69.9 Dec. 2, T.G., I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	41				None	TNT	
45 — 60 d/ T,G, 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, T,G, I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 — 63 d/ T,G, I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	23	1			1.0116	1	
Reported yield, 700 gallons a minute. Pump set at 100 feet. "Red Beds"at 161 feet. 46 1.0 69.9 Dec. 2, T.G., I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	45		60	1 3/	ጥር	 T	
set at 100 feet. "Red Beds"at 161 feet. 46 1.0 69.9 Dec. 2, T,G, I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T,G, I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	- 20	1	1 30	=	1	1	
46 1.0 69.9 Dec. 2, T,G, I Irrigated 25 acres feed in 1937. Reported yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T,G, I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.							
yield, 900 gallons a minute. Pump set at 84 feet. "Red Beds" at 126 feet. No casing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pump- ing 700 gallons a minute for 168 hours.	AF	1.0	60 0	Dec 9	T. C	 	
84 feet. "Red Beds" at 126 feet. No easing. 47 - 63 d/ T.G., I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.	40	1.0	9.9	· ·	1	1	
47 - 63 d/ T,G, I Irrigated 43 acres feed, wheat and truck in 1937. Reported supply weakened after pumping 700 gallons a minute for 168 hours.				1291	00		
30 1937. Reported supply weakened after pump- ing 700 gallons a minute for 168 hours.	10		672	A/	m c	 	
ing 700 gallons a minute for 168 hours.	47		0.5	<u> </u>	b .	1 1	
					30		
					1		
		<u></u>	<u>i</u>	L	l		frump set at 84 19et. "Red Beds" at 147 feet.

-7-

Records of wells in Swisher County-Continued No. Distance Date Depth Diam-Section Block Driller Topo-Owner eter of from or graphic comofple- |well Tulia Survey situ-(ft.) well ation ted (in.) 48 % mile 27, W-l Gentle 01d 84 NE NO. northeast slope 49 년 mile W-1 60 6 21. Edge of SW 1SW 1 northeast lake 50 불 mile 77-1 69 27, Gentle 1923 6 NM-FMM-F northeast slope 51 4 mile R. J. 1914 140 22, W-1City of Tulia do. 18 north SWANE Stallings 52 mile W-1 1922 198 18 11, do. do. do. west SEANE 53 do. do. W-1 do. G. E. Hegins do. 1926 160 26 54 14 miles W-1 D. H. Hyman R. J. do. do. 1911 west Stallings 55 7 miles 24, M-8 J. H. Bice Calvin Hamm do. 1934 157 18 west NWANEA 24, 56 8 miles M-8 Mrs. Ollie R. J. do. 1937 270 18 WY TWW T west Settle Stallings 57 9 miles M-61936 200 18 24, do. SWASE 4 west do. 58 M-6 1936 200 18 do. do. 59 10 miles C. G. Jordan 23. M-6Green Mch. 1935 200 18 Level west NW cor. NW Co. $101 \ 10\frac{1}{2}$ miles 95, M - 9Dick Pair John Clayton Ridge 1937 230 18 north SW HWW : top 102 10 miles 95, M-9 Union Hill Gentle 80 6 north SE cor. SE1/4 School slope 103 | 15 miles 191. M - 9J. B. Knowles do. 1937 237 18 northeast NW cor. SE2 104 do. 88. M-10Salem School 6 do. SE cor. SE 105 16 miles J. V. Davis N-10 101. T. W. Payne do. 1937 186 18 northeast NW cor. NW 106 19 miles M-10 J. T. McGehoe 94, Ridge 1937 18 northeast NE NE NE : top 107 17 miles Lot 11. 6 Lea-Vigo Park Flat northeast SW gue- 4 School $108 \, 16\frac{1}{5} \, \text{miles}$ Lot 23, D. D. Layne Pump do. 1914 210 26 Leanortheast NE gue 4 Augspurger Co. 107, 109 | 15 miles M-10 E. R. Sprawls T. W. Payne Ridge 1937 287 18 NW INE } northeast top

Records obtained by C. R. Follett

				cords o	obtain	ed by C. R. Follett
	Height of		r Level		5	l'
No.	measuring	Depth	Date of	Pump	Use	Romarks
	point		measure-		$\circ \mathbf{f}$	
	above		r- ment		water	
	ground	ing po		b/	<u>c</u> /	
	(ft.) a/	(ft.)				
48	<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	12 00 /		None	N	Dug 50 feet or more, drilled to bottom.
40				110119		Drilled for irrigation.
49	0.3	40 3	July 16,	C,W	N	In Tulia.
			1937			
50	0.3	61	do.	C,W	N	Do.
51		70	<u>å</u> /	T , E , 25	P	City well 5. Reported yield, 200 gallons of minute. Pump set at 130 feet. No casing.
52		70	<u>d</u> /	T, E,	P	City well 1. Reported 15 feet drawdown pump-
				40		ing 500 gallons a miruto for 4 hours. Pur.p
53	1	70	<u>a</u> /	T,E,	P	City woll 2. set at 178 feat. No casing.
	- Andrews			50		Reported yield, 775 gallons a minute. Pump
						set at 150 feet. 150 feet of 26-inch per-
54				None	N	Dug and drilled. Pit forated casing at top.
						numn was used. Abandoned as not practical
55	1.5	82.9	Oct. 29,	T.G.	I	Irrigated 104 scres, putatoes, in 1912.
	1.0	~~• <i>5</i>	1937	60	-	grain and feed in 1937. Reported yield,
			1507	00	į	750 gallons a minuto. Pump set at 100 feet.
		m ~	a 7		37	No casing. Coarse sand from 90 to 130 feet.
56		78	<u>d</u> /	T,-	N	Reported yield, 250 gallons a minute. "Red
						Beds" at 158 feet.
57	0.5	91.5	Sept. 14,	None	И	Reported tisld, 300 gillons a minute. "Red
			1937			Bods" it 200 feet.
58	0.1	90.8	ào∙	None	N	Reported word supply. "Red Bods" at 200
59	0.5	114.1	do.	T,G,	I	Irrigated 142 acres alfalfa and wheat. Re-
0.0				85	_	ported 53 feet drawdown numping 900 gallons
	<u> </u>				1	a minute. Supply weakened after pumping 18
						days. Water level taken 4 hours after pump
3.03				50. G		shut down. Reported water levels: 96 feet,
101	1,5	71.7	Nov. 29,	ł	I	Reported Dec. 1935; 95 feet, Dec. 1936.
			1937	40		yield, 500 gallons a minute. 138 feet of
						14-inch steel casing at tor, perforated be-
102				C,W	P	low water level.
103	2.0	82.5	Nov. 30,	None	N	Reported yield, 150 gallous a minute. "Red
***			1937			Bads" at 170 feat.
104				C,W	P	
100	<u> </u>			7.7	2.7	77
105	1		Lake	Nons	N	Weak supply. Reported could bail dry.
106			-	T, G, -	I	
107				C,W	Р	
108	3.3	74.8	Apr. 20,	T.D.	Ī	Irrigated 155 acres feed and wheat in 1937.
			1934	100	1 -	Reported yield, 1,000 gallons a minute.
		75 6	Nov. 29,	100	į	
		(0.0	1937	Ì		See log.
109		מ נמ		Non	7,7	Described will SEC 11-
T08	0	71.7	Nov. 29,	wone	N	Reported yield, 250 gallons a minute.
	L	<u> </u>	1937		<u></u> _	T.

-9-Records of wells in Swisher County-Continued

No.	Distance from Tulia	o r Sur v ey	Block	Owner	Driller	Topo- graphic situ- ation	com- plo- ted	Depth of well (ft.)	orer of woll (in.)
110	15 miles northeast	107, sw <u>ł</u> neł	M-10	T. W. Payne	T. W. Payne	Edge of lake	1933	166	18
111	13½ miles northeast	105, NW cor. NE ₂	M-10	C. H. Lowe	J. M. Tucker	Ridge top	1937	235	18
	13 miles northeast	116, NW <mark>4</mark> NW4		E. V. Stewart	Green Mch. Co.	Flat	1937	200	18
113	9½ miles northeast	198, Se l sw l	M-9	Mrs. J. M. Tucker	J. M. Tucker	Ridge top	1937	210	18
	9 miles	l, NW l NWl	RC.	Valleyview School		Slope		70	6
	9 miles northeast	163, NW ¹ NW ¹	M-9	Hugh Parker	R. J. Stallings	Gentle slope	1937	218	13
115	do•	164, sw <u>4</u> sw <u>4</u>	M-9	W. W. Parker	W. D. Witt	do∙	1937	226	13
116	ll miles northeast	196, NW ÁNW Á	M - 9	A. R. Stewart	J. M. Tucker	do∙	1937	200	18
117	10½ miles northeast	159, NW cor. NW{	M-9.	Mrs. W. L. Pearson	Harris	do∙	1937	225	18
		128, NW cor. N E	M-9	T. L. Parker	R. J. Stallings	do.	1937	2)6	18
119	5克 miles northeast	6, SW 1 SE1	RC.	N. G. Jackson		Gentle slope	-		1. 8
120	do.	8, NE NW L	RC.	Frank Keehn	Allman	Ridge top	1937	190	18
121	do.	8, nw <u>i</u> se <u>i</u>	RC.	Joe Reeves	R. P. McDaniels	do.	1937	142	18
122	7 miles northeast	10, SW NW4	RC.	J. E. Holly	do.	do.	1937	193	18
123	9½ miles east	127, NW 2SE 4	M-10	R. B. Pyeatt	E. R. Sprawls	s Gentle slope	1936	125	18

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

 $[\]underline{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.

-10Records obtained by C. R. Follatt

			Re	cords	obtain	ed by C. R. Follett
	Height of	Water	r Level			
No.	measuring	Depth	Date of	Pump	Use	Remarks
	point	below	measure-	and	of	
	above	measu	r- ment	power	water	
	ground (ft.) a/	ing po		<u>b</u> /	<u>c</u> /	
110	(100)	55	<u>d</u> /	T,G,	Ī	Irrigated 90 acres feed in 1937. Reported
		00	<u> </u>	45	-	yield, 750 gallons a minute. No casing.
1	i I					Pump set at 106 feet. Sand and gravel from
						140 to 160 feet. "Red Bods" at 160 feet.
111	0	75.1	Nov. 30,	None	N	Reported yield, 300 gallons a minute. 125
			1937	2.0223	•	feet of 14-inch perforated steel casing from
					-	10 to 135 feet. "Red Beds" at 135 feet.
112	1.8	54.4	Nov. 26,	T,G,	I	Irrigated 80 acres feed and wheat in 1937.
			1937	85	_	Reported 25 feet drawdown pumping 700 gallons
					1	a minute. Pump set at 144 feet. 20 feet of
į						14-inch perforated casing at bottom.
113	2.0	60.5	Nov. 30,	T,G,-	Ī	Irrigated 90 acres feed and wheat in 1937.
	~ ~ ~	00.0	1937	1,0,	_	Reported yield, 800 gallons a minute.
1138	9 =-			C,W	P	Tropor ook J Total, ook Saltano a miliano.
	7		-	, ,,,,	_	
114	1.5	58.7	Nov. 15,	T,G,	I	Irrigated 280 acres feed and wheat in 1937.
		i	1937	60		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,	Ī	Irrigated 235 acres feed and below water.
				60	_	wheat in 1937. Reported 38 feet drawdown
			# *			pumping 900 gallons a minute. Pump set at
					1	116 feet. Sand and gravel from 192 to 209
116	-	60	<u>d</u> /	T,G,	I	Irrigated 35 acres feed in 1937. Re-feet.
				85	_	ported yield, 800 gallons a minute. Pump
	; !					set at 96 feet. "Rod Beds" at 200 feet. 146
			1			feet of 14-and 12-inch perforated steel cas-
						ing from 34 to 180 feet. Sand and gravel
117		50	d;/	T,G,	I	Irrigated 80 acres from 188 to 200 feet.
				75	-	feed in 1937. Reported yield, 1,100 gallons
		1		, •		a minute. "Red Beds" at 225 foet. 225 feet
			İ	İ		of 16-and 12-inch steel casing perforated
118	ie	54	<u>d</u> /	T,G,	<u> </u>	Reported yiela, 700 below water level.
		1		85	_	gallons a minute. Pump set at 140 feet.
		į				150 feet of 16-inch steel casing at top, per-
					İ	forated below water level. "Red Beds" at
119				T,G,	I	203 feet.
						1 2000
120	1.0	51.4	Nov. 24,		I	Irrigated 71 acres cotton and feed in 1937.
			1937	85	<u></u>	Reported yield, 1,200 gallons a minute.
121			_	T,G,	I	Irrigated Pump set at 100 feet. No casing.
			-	85		60 acres feed in 1937. Reported yield,
				ļ		1,100 gallons a minute. Pump set at 90 feet.
122	Shell-s	50	₫/	T,G,	I	Irrigated 47 acres feed in 1937. No casing.
	!			8 5		Reported yield, 800 gallons a mirute. Pump
123	1.0	48.6	Nov. 16,	•	I	Irrigated 187 set at 104 feet. No casing.
		1	1937	65	1	acres feed and grain in 1937. Reported
						yield, 1,000 gallons a minute. Pump set at
		!				72 feet. No casing.
n/3	I immicrati	ion. D	muhlia.	D 300	~ - ~ + + ~	· S. stock · N. not used

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

-11-

	·	Record	ls of w	vells in Swisher	· County-Cont	inued	·	!	 -
No.	Distance from Tulia	Section or Survey	Block	Owner	Driller	Topo- graphic situ-	com-	Depth of well	Diam- eter of
						ation	ted	1	well (in.)
124	$10\frac{1}{2}$ miles east	125, SW <u>‡</u> SW‡	M-10	W. C. Watson	Green Mch. Co.	Gentle slope	1935	188	18
125	do.	125, SE 2 SW 1	M-10	do.		do.	1930	70	6
126	do.	do.	M-10	do•	*****	do.	1908	52	6
127	ll miles east	124, SW≟NW글	M-10	W. B. Ballard	J. M. Tucker	₫೦∙	1937	1.97	18
128	ll½ miles northeast	119, NW <mark>1</mark> SE1	M-10	R. L. Wright	Green Mch. Co.	do.	1937	1.92	18
129	east	163, SW <u>4</u> SW <u>4</u>	M-10	W. O. Borchardt	- Phillips	Almost flat	1937	164	18
130	13½ miles east	74, SE <u>‡</u> NE‡	В-3	J. N. Montgemary	Green Mch. Co.	Gentle slope	1937	225	18
131	13 miles east	74, SE cor. SE ¹ / ₄	B –3	Red Hill School		Almost flat	 -	55	6
132	do.	69, sw <u>ł</u> sw <u>ł</u>	В-3	A. & H. Price			1914	260	26
133	9 miles east	133, sw <u></u> neł	M-10	T. H. Love	Henry Patzig	Ridge top	1937	201	18
134	do.	133, nw <u>4</u> se <u>4</u>	M-10	do.	do.	do.	193 7	104	18
135	do.	133 , Se <u>i</u> nw <u>i</u>	M-10	R. B. Bell	E. R. Sprawls	Gentle slope	1936	100	18
136	8 miles east	134, NW cor. $SE_4^{\frac{1}{4}}$	M-10	Edgar Bell	Henry Patzig	ào.	1937	200	8
137	do.	do.	M-10	do.	do.	do.	1931	100	ર્ફ દે
138	9½ miles east	40, center	M-15	J. A. Tucker	Henry Patzig	Ridge top	1936	114	18
139	northeast	9, nw <u>‡</u> nw <u>‡</u>		F. R. Anderson	do.	do•	1937	208	18
	3½ miles east	ll, SW cor. NW≟		P. W. Mitchell		ũo.	1937	130	18
141	₫o.	ll, sw½sw½	M - 15	S. J. Payne	E. R. Sprawls	slope	1936	140	18
142	do.	37, Se ¹ Se ¹	M-15	G. A. Hall	-	Ridge top	1922	57	10
	2½ miles east	37, NE 4SW 4	M-15	do.	W. D. Witt	do.	1937	180	18
201	6을 miles east	151, sw _‡ sw <u>‡</u>	A	C. M. Flowers	D. L. Handley	Gantle slo p e	1937	162	18
						a company			

-12Records obtained by C. R. Follett

	Records obtained by C. R. Follett											
-	Height of	Water	Level_									
No.	measuring	Depth	Date of	Pump	Use	Remarks						
	point	below	measure-	and	of							
	above	measui	- ment	power	water							
	ground	ing po	oint	<u>b</u> /	<u>c</u> /							
	(ft.) <u>a</u> /	, -		_	_							
124	4.0		Nov. 26,	T,G,	Ī	Irrigated 361 acres feed, cotton, and wheat						
			1937	85		in 1937. Pump set at 86 feet. Reported						
			100.			yield, 800 gallons a minute. See log.						
125	منالاجيخ	49	<u>d</u> /	C,W	D	yloid, oo gallons a linas, soc rost						
120		-±2	<u> </u>	0, 11								
126	0.3	49 .	Nov. 26,	C,W	S							
120	0.5	43	1937	0,11	J							
127	1.7	54.1		m c	I	Irrigated 100 acros feed and wheat in 1937.						
127	1.7	04.I	do.	T,G,	1	•						
100			7.7	85		Reported yield, 750 gallons a minute.						
128	- 7 	50 _	<u>d</u> /	None	N	Reported yield, 350 gallons a minute. No						
						casing.						
129	1.0	61.8	Nov. 26,	None	N	Reported yield, 300 gallons a minute. No						
			1937			casing.						
130	1.8	53.3	do.	T,G,	I	Reported yield, 400 gallons a minute. Pump						
				85		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,	None	N	Reported yield, 250 gallons a minute. "Red						
			1937			Beds" at 180 feet.						
134	lights.	3 8	<u>d</u> /	T,G,	I	Irrigated 110 acres feed and wheat in 1937.						
		•	_≌⁄	85	-	Reported yield, 1,000 gallons a minute.						
135	P			T,G,	Ī	Irrigated Pump set at 80 feet. No casing.						
100				1,00	1	80 acres feed and wheat in 1937. Reported						
136	0	44 0	27 30	Mana	N							
T30	U	44.0	Nov. 19,	None	IN	Drilled 6 feet yield, 750 gallons a minute.						
7.00	<u> </u>	44 5	1937			northwest of well now in use, trying to lo-						
. 137	Ò	44.7	do.	Т,0,	I	Irrigated 90 acres feed, cate more water.						
						wheat and cotton in 1937. Reported yield,						
138	مسبع	42	<u>d</u> /	T,G,	I	Irrigated 128 acres 700 gallons a minute.						
	,	İ				feed, wheat and cotton in 1937. Reported						
		}				yield, 900 gallons a minute. Pump set at SC						
						feet. 60 feet of 15-inch perforated steel						
139				T,G,	I	Irrigated casing from 40 to 100 feet.						
				85		135 acres wheat in 1937. Reported yield,						
						900 gallons a minute. Pumo set at 130 feet.						
140	 -			T,G,	I	Irrigated 200 acros 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,	T,G,	I	Irrigated 129 acres from 100 to 120 feet.						
	- - -		1937	36	_	feed, grain and cotton in 1937. Reported						
				30		15 feet drawdown pumping 650 gallons a min-						
142	5.0	34.2	do.	C,-	N	Formerly used to jute. Pump set at 72 feet.						
		2		J,		irrigate garden; was operated by twin wind-						
143	***=	45	<u>d</u> /	T,G,	Ī	Irrigated 183 acres feed and windmills.						
TTO	, , , , , , , , , , , , , , , , , , , 	Ξυ	"		-	***************************************						
901	1.0	57 P	N 70	85		wheat in 1937. Reported yield, 850 gallons						
201	1.2	55.3	Nov. 12,	T,G,	I	Irrigated a minute. Pump set at 140 feet.						
	;		1937	85		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. "Rad						
		ļ				Beds" at 152 feet.						

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		Record	ls of v	wells in Swisher	County-Cont	inued		······································	
No.	Distance from Tulia	e Section or Survey	Block	Owner		Topo- graphic situ- ation	-elq		eter of
202	$6\frac{1}{2}$ miles east	151, SW :{S W:	A	C. M. Flowers	D. L. Handley	Gontle slops	1937	148	18
203	do.	151, SE { SW {	A	do.	do.	đo.	1937	155	18
204	do.	151, SW cor. NE	A	do.	āo.	₫¢•	1935	245	18'
205	7 miles east	152, NW cor. NW:	A	Elkins School		Almost flot	1909	48	6
206	9 miles east	115, NW-NW-2	A	G. R. Richardson	Grean Moh.	Above creek	1937	116	18
207	9 <mark>분</mark> miles east	115, NE l sw <u>l</u>	A	W. J. Richardson	D. L. Hendley		1934	215	18
208	ll miles east	100, NW cor. NW	A	Love School		Gontle slope		55	6
209	$11\frac{1}{2}$ miles east		A	deline and	group to the	άο.	1937	140	18
210	do.	100, NE ² NE ²	A	P-1		do.	1937	140	18
211	12 miles east	ને૦.	A			₫o•	1937	140	18
212	$17\frac{1}{2}$ miles southeast	•	A	Leo Koger	Leo Koger	Ridge top	1937	165	18
213	14 miles southeast	93, NW cor. NE ¹ / ₄	A	H. A. Hodges	Green Mch. Co.	Gentle slone	1935	210	18
214	$13\frac{1}{2}$ miles southeast		A	R. A. Hodges	do.	do.	1936	cos	18
215	$11\frac{1}{2}$ miles southeast		A			Ridge top	1937	180	18
216	11 miles southeast	119,	A	Ben Finegold	Leo Koger	Gentle slope	1937	179	18
217	10 miles southeast	117,	A	Gunter	B. R. Kimbell	do.	1937		
218	do.	117, SE ¹ SW ¹ / ₄	A	do.	do.	ão∙	1937	140	18
219	do•	117, NW ¹ 25W ¹ 2	A	do.	— Harris	Ridge top	1937	245	18
220	do.	do.	Ā	do.	B. R. Kimbell	do.	1937	234	13
221	do.	do.	À	do.	do.	do.	1937	173	19
222	9 miles southeast	146, SE cor. SE ¹ / ₄	Ä	T. B. Maynard		Slope		34	6
223	$8\frac{1}{2}$ miles	143, SW cor. NW=	A	I. L. Burk	J. C. Cook	kidge top	1931	160	18
224	$10\frac{1}{2}$ miles		A	Percy Eauck		Gentle slope	1937	181	18

-14-P. Fallatt

			Red	cords	obtaine	ed by C. R. Follett
	Height of	Water	c Level			
No.	measuring	Depth	Date of	Pump	Use	Romarks
	point	below	measure-	and	of	
	above	measui	r- ment	power	water	
	ground	ing po	oint	<u>b</u> /	<u></u>	
	(ft.) <u>a/</u>	(ft.)				
202	1.5	48.3	Nov. 12,	}	I	Reported 63 feet drawdown pumping 800 gallons
			1937	85		a minute. Pump set at 90 feet. 148 feet of
•						16-inch steel casing, perforated below water.
203		47	<u>a</u> /	None	N	Reported yield, 300 "Red Beds" at 148 feet.
						gallons a minute.
204		39	<u>d</u> /	None	N	Reported yield, 700 gallons a minute but
						failed if pumped 24 hours a day. "Red Beds"
205	0,	41.7	Nov. 26,	C,W	P	at 160 feet.
			1937			
206		36	<u>ā</u> /	T,G,	I	Irrigated 30 acros feed in 1937. Reported
				85		yield, 700 gallons a minute. Pump set at
207		40	₫/	T,G,	I	Irrigated 240 acres 84 feet. No casing.
				85		feed, wheat, and alfalfa. Reported yield,
						600 gallons a minute. Pump set at 80 feet.
208	E			C, W	P	No casing.
···						
209	1.0	45.1	Dec. 2,	T,-	N	Reported yield, 200 gallons a minute.
			1937	<u> </u>		
210	0	47.	do.	None	N	Do.
			<u> </u>	ļ <u></u>	<u> </u>	
211				None	N	Reported yield, 200 gallons a minute.
212	1.0	62.6	Nov. 10,	T,-	N	Reported yield, 500 gallons a minute.
			1937	- C		
213	-	55	₫/	T,G,	I	Irrigated 55 acres feed and wheat in 1937.
	ŀ			85		Reported yield, 550 gallons a minute. Pump
07.4				- -	ļ <u>.</u>	set at 96 feet. "Red Beds" at 160 feet.
214		55	<u>d</u> /	T,G,	I	Irrigated 50 acres feed and cotton in 1937.
				85		Reported yield, 800 gallons a minute. Pump
	į					set at 84 feet. "Red Beds" at 160 feet. 80
035		50 A	77 70		 	feet of 16-inch perforated steel casing from
215	1.2	55.9	Nov. 10,	1	I	Reported yield, 800 gallons 80 to 160 feet.
07.6			1937	85		a minute. Pump set at 96 feet.
216				T,G,	I	Reported yield, 700 gallons a minute. Pump
01.77	! 			RT.	3.7	set at 90 feet. No casing.
217				None	N	Drilling for irrigation purposes.
218	0	72.72 1	Nov. 6,	None	N	Drilled for irrigation but never tested due
210	,	99.1	•	MOHE	10	1
219	1.5	76 F	1937	m C	I	to lack of sufficient water bearing material.
ದ⊥೫	1.0	36.5	do.	T,G, 85	1 +	Irrigated 40 acres feed and alfalfa in 1937. Reported yield, 400 gallons a minute. Pump
				00		, -
220	0:	36.5	do.	None	N	set at 60 fect. "Red Bods" at 120 feet.
ಒಬ	0:	30.0	1 00.	MOHE	IN	Drilled for irrigation but never tested due
221	0.**	36.3	do.	Mana	N	to lack of sufficient water bearing material.
221	0.	30.3	uo.	None	IN	Drilled for irrigation but never See log.
000	-0.5	90 B	3.	Mona	3.7	tested due to lack of sufficient water bear-
222	-0.5	28.7	do.	None	N	No casing at top. <u>ing material.</u>
223	1.5	43 6	Nov. 12,	T,G,	I	Immigrated 101 sames food and emain in 1027
ಏಏರ	T.O	#1.0	1	وي و ي	1	Irrigated 101 acres feed and grain in 1937.
224	~		1937	T,G,	I	Reported yield, 750 gallons a minute.
,224				1	<u>.</u>	Irrigated 100 acres feed, wheat and cotton
			Ì	85		in 1937. Reported yield, 1,000 gallons a
	<u> </u>	!	<u> </u>	<u> </u>	·	minute. Pump set at 90 feet. No casing.

Records of wells in Swisher County-Continued

••••		Record	ls of v	vells in Swisher	r County-Cont	inued	,		
No.	Distance from		Block	Owner	Driller	Topo- graphic	Data com-	Dorth	Dian-
	Tulia	OF Current			8	situ-		woll	C.2
	IULIA	Survey				ation		1	WIL
						C. 0 1 O.11	, obu		
225	12½ miles	131,	A			Gentle	<u> </u>	}	(<u>i)</u> 19
ಒಬ	southeast	SW ¹ SW ¹ / ₂	-			slope	;	; 1	1.0
226	13 miles	127,	A			Flat	 		6
ممد	southeast	SW-INW-	A			1130			
227	14 miles	96,	B2	Mrs. N. G.	G. E. Green	Gentle	1914	204	26
221	1	NW NW NW N	D	Poe	G. T. Green		Tate	204	ی کی
200	southeast		B-2	- Hutchinson		slops do.	1937	 	18
ಒಬರ	$13\frac{1}{2}$ miles		D-2	nutti inson		αυ.	1 1301		10
000		NW cor. NW2	D 0	<u> </u>			1 7077	 	1.8
229	14 miles	97,	B-2	do.		ã٥.	11937		1.0
050		NW cor. NE		T 70 70 . 3	2	T. 1 3	3.070	000	
230	13 miles	98,	B-2	J. B. Reid	Casebolt	Ridge	1937	220	18
	southeast	W. JNE3		Estate		ton	1 - 0	 	<u> </u>
231	13½ miles	87,	B-2	- Hutchinson		Gentle	1937		18
	southeast	NM FILM F				slope		ļ	
232	i	87,	B-2	do.		do∙	1937		18
	southeast	NW ¹ SW ¹	L					 	
233			B-2	Mrs. J.	Louis Francis		1937	203	18
	southeast			Hamilton		ton			
234	~		B-2	Andrew Price	Calvin Cock	do.	1930	204	18
	southeast	NE ASWA					1		
235	15 miles	84,	B-2	A. S. Hanna	- Miller	Gentle	1936	175	18
	southeast	M FIEF				egola		1	
							İ	; 1	
236	16를 miles	70,	B-2	E. R. Lovern	W. D.	Ridge	1937	232	18
	southeast	NE SW			Casebolt	tor	i	! 1	
						-		ļ	ł ł
237	dò.	70,	B-2	do.	do.	ũ٥.	1937	258	18
		Se ₄ Sw ₄	1				İ	1	! [
			1				1	į į	
			į		1		1		
238	18 miles	68,	B-2	B. R. Stark	W. D. Witt	Ger.tle	1936	187	18
	southeast	SE ¹ / ₄ SW ¹ / ₄				eqola	!]	-0
		4	1			~=~; >		1	
239	$18\frac{1}{2}$ miles	61,	B-2	B. C. Stark	Louis Francis	Ridea	1937	200	18
	southeast		: - ~		; 	top.	1 2007	1 200	10
240	19 miles		B-2	Wilbur Wilson	W. D.	do.	1937	215	18
2.20	scutheast		1 - 2	**************************************	Casebolt	αO•	7701	1 210	10
241	20 miles		B-2	A. C. Wimberly		₫o.	1937	 	18
ハエエ	southeast	NW-NE-	11-6	W. O. MIMORITA	!	uO.	1201		TO
2/12	20 miles		B-2	J. A. Savago	Francis Graen Mch.	Gontle	1936	907	30
బ¥బ	southeast	64,	מבע	o. a. savage	: I		Tago	223	18
	Jeseninogst	NM TNM T	1		Co.	slopo		Ţ 1	
047	10 me 1		700	A 4	707	3 2	12055	070	
243	19 miles	66,	B-2	A. A.	Blackerby	đo⁴	1937	230	18
~	southeast	SWINE	<u> </u>	Blackerby	Bros.		 		
244	do.	60,	B-2	E. F.	Green Mch.	do.	1937	242	18
		nw <u>ł</u> se <u>ł</u>	1	Blackerby	Co.		-		
									
245	19ਤੂੰ miles		B-2			Flat		!	6
		NW cor. SWZ					<u> </u>		
246	19 miles	78,	B - 2	B. F. Foster		Gently		'	6
	southeast		t			rolling	7		
0/7	lesqueing r	noint was us	207377	ton of essing	ton of wood min	an alamm	+ ~~	of 000	nareto

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 somi-diesel; W, windmill; H, hand; number indicates horsepower.

m16m

			Red	cords	obtaine	ed by C. R. Follett
	Height of	Water	Level			
No.	measuring	Depth	Date of	Pump	Use	Remarks
	point		measure-		of	
	above	9	r- mont	power	water	
	ground (ft.) <u>a</u> /	ing po		<u>b</u> /	<u>c</u> /	
22 5	1.0	43.7	Scpt.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 minuto. See log.
228	1.5	51.7	Nov. 8, 1937	Т,	I	Development test run. Reported good well.
229	1.5	52.9		T,-	Ī	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, -	Ī	Develop- top, perforated below water level.
232	1.5	53.4	do.	T,-	I	ment test run. Reported good well. Do.
233	1.0	51.9	do.	T,G,	I	Reported yield, 1,000 gallons a minute.
				85		Pump sot at 100 feet. No easing. "Red Beds" Reported good well. No easing at 203 feet.
234	1.0	61.6	Nov. 9, 1937	None	N	Reported good well. No casing tat 203 foct. 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. "Rod Bods" 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 Bads"
238	1.8	54.6	Nov. 8, 1937	T,G,	I	Irrigated 220 acres feed and at 234 feet. grain in 1937. Reported yield, 800 gallons a minute. 70 feet of 16-inch perforated
239	0.7	65.6	do.	None	N	Just com- stuel casing from 20 to 90 feet. ploted. Not tested. No cosing.
240	₹.5	22.2	do.	T, Ng,	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	<u>d</u> /	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 cas-
243				None	N	Reported doubtful supply. River bad ing. sand and gravel from 175 to 200 feet.
244				T, J, 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
245	0.3	64.8	May 7,	C,W	D	feet.
246	0.5	59.8	do.	C,W	D	

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

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		Record	ls of v	vells in Swisher	County—Cont	tinued	,		
No.	Distance from Tulia	Section or Survey	Block	Owner	Drillor	Topo- graphic situ- ation	com-	Dopth of well (ft.)	Diam- eter of well (in.)
247	18 miles southeast	80, N e ¦se <u>ł</u>	В-2	W. 3. Pool	W. D. Casebolt	Gentla slope	1937	226	18
248	$17\frac{1}{2}$ miles southeast	76, NE ¹ NW ¹ / ₂	B-2	F. E. Poarson	W. E. Durham	Ridge top	1937	223	1.8
249	16½ milcs southeast	90, nw ₂ se <u>1</u>	В-2	Sam Neuman	Green Mch. Co.	do.	1936	200	18
250	do.	90, Se <u>į</u> sw <u>į</u>	В-2	J. A. Boyd	Loo Koger	do•	1937	207	13
251	17 miles southeast	92, NE l NW l	B-2	F. W. Struve	Green wch.	Gentle slope	1936	232	1.8
252	16 miles southeast	94, NW SW4	B-2	O. J. Cotton	do.	do.	1937	220	18
253	$15\frac{1}{2}$ miles southeast	6, SW i SW i	B6	Plainview- Lockney Farms	W. D. Witt	Ridge top	1937	209	18
254	$14\frac{1}{2}$ miles southeast	2, Neisei	B-6		Andrews	Slope			6
255	14 miles	2, NW cor. NE ¹ / ₂	B-6	Chas. Inman	W. D. Witt	Gentle slope	1937	ಖ೦೦	18
256	$13\frac{1}{2}$ miles	3, NW cor. SW4	B-6	D. M. Springer	— Burch	ão.	1937	225	18
257	$15\frac{1}{2}$ miles southeast	32, SW cor. SW	N-14	Joe Bontke	Joe Bontke	do.	1937	222	18
25 8	17 miles southeast	25, NW <u>l</u> SEl	M-14	,		do.			6
259	16 miles	23, SW l SWł	M=14	Plainview- Lockney Farms	W. D. Witt	₫0•	1937	214	18
260	19½ miles southeast	10, SW ² NW ²	M-14		Green Mch. Co.	do.	1936	222	18
261	21 miles southeast	W. N. Farris		W. O. Wells		Flat	Old		6
301	🛂 mile	10, NE cor. NE4	W-1			Slope to draw	01 d	33	6
302	1½ miles southwest	23, SW1SW1	W-1	J. D. Vaughn	Layne Pump Co.	do.	1914	233	26
303	l mile south	23, NE4NE4	W-1	J. W. Vaughn	do.	Creek vailey	1911	74	
304	1 mile	26, SW <u>4</u> NW <u>4</u>	W-1	E. W. Jackson		do.	1917	28	6
305	lå miles	25, NW cor. NE		J. L. Cantrell		. do.		48	6

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	Records obtained by C. R. Follett										
	Height of	Wate	r Level								
No.	measuring	Depth	Date of	Pump	Use	Romerks					
	point	below	moasure-	and	of	ı					
	above	measu	r- ment	power	water						
	ground (ft.) a/	ing po		<u>b</u> /	<u>c</u> /						
247	1.2		Nov. 9,	T,G,	Ī	Reported yield, 1,000 gallons a minute.					
			1937	85		Pump set at 90 feet. 120 feet of 12-inch					
						perforated steel casing from 20 to 140 feet.					
248	H			T,G,	I	"Red Beds" at 226 feet.					
040		50.0	NY O	m 0		Torin to 2 02 Communication 2000 December 2 12 2					
249	1.0	57.8	Nov. 8,	T,G,	I	Irrigated 216 acres in 1937. Reported yield,					
			1937	85	1	700 gallons a minute. Pump set at 90 feet.					
	:			·	İ	200 feet of 16-and 12-inch steel casing, per-					
						forated below water. "Red Beds" at 200 feet.					
250	· <u>2</u>	56	<u>a</u> /	T,G,	ľ	Irrigated 60 acres food in 1937. Reported					
				50	1	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	<u>ā</u> /	T,0,	I	Irrigated 335 acros alfal- Beds" at 207 feet.					
			_	50	į	fa, feed and cotton in 1937. Reported yield,					
252		62	<u>d</u> /	T,G,	Ī	Reported yield, 800 1900 gallons a minute.					
				85		gallons a minute. 162 feet of 16-inch and					
				t 	Ì	58 feet of 12-inch steel casing, perforated					
						below water level. Pump set at 98 feet.					
253				T,G,	I	Irrigated 575 acres cotton and wheat in 1937.					
ಏ೦೦				170		Reported yield, 1,600 gallons a minute. Pump					
254	0.5	36 9	May 6,	C, W	D	set at 100 feet.					
SOT.	0.0	50.5	1936	0-4 π		1850 at 170 1660.					
255	1.9	43.4	May 12,	None	N	Drilled for irrigation but never tested.					
ಬರರ	143	40.4	1937	MOHE	11	25 feet of 16-inch perforated casing at 70					
256	0.9	50.5	Aug. 10,	T,G,	I	Reported yield, 750 gallons a to 95 feet.					
ಎ೦೦	0.5	30.5	1937	85	-	minute. Pump set at 130 feet. 75 feet of					
			1907	00		†					
257	1.0	68·	Aug. 21,	None	Ī	16-inch steel casing at top. "Red Beds" at Irrigated 192 acres grain in 1937. 225 feet.					
ಬರ 1	1.0	90.	1937	MOHE	1						
			1907			Reported 18 feet drawdown numping 1,200					
					!	gallons a minute for 30 minutes. 84 feet of					
050		63.3	N C	C 717	- T	14-inch perforated steel casing suspended					
258	0.5	OT-T	May 6,	C,W	D	with top at 68 feet.					
OF O			1937	m c							
259				T,G,	I	Irrigated 495 acres feed and wheat in 1937.					
000		50	3,	170	!	Reported 20 feet drawdown pumping 1,800 gal-					
260		50	₫/	T,G,	I	lons a minute. Pump set at 120 feet.					
		į		85	i	Irrigated 200 acres feed, grain and cotton in					
						1957. Reported yield, 800 gallons a minute.					
					r *	Pump set at 84 feet. 222 feet of 16-and 13-					
	- white				! 	inch steel casing, perforated below water					
261	0	64.9	May 2,	C, -	N	level.					
			1936		i						
301	0.2	31.4	July 24,	C.W	N						
			1937								
302	5.0	66.9	Nov. 17,	T,0,	I	Irrigated 97 acres in 1937. Pump set at					
_			1937	80	 	120 feet. Reported yield, 950 gallons a					
303		ļ 		Cf,	N	Abandoned and caved in. minute. See log.					
					1	arrange and arrange arrange and arrange arrange arrange and arrange ar					
304	0.9	16.5	Aug. 13,	C,H	S						
			1937	-	j						
305	0.6	37.6		C,W	S						
	- 		-	•	1	İ					

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Records of wells in Swisher County-Continued No. Section Block Owner Driller Topo-Date Dooth Diem-Distance ettr com- of from graphic orflow -elg 01Tulia Survey situted (ft.) woll ation (in.) 306 2 miles 39, W--1 W. C. Crawford Adams & 540 NM FME ? Pritchard east 15, Ridge 18 307 4 miles M-15 J. S. Vars Green Mch. 1937 173 southeast NWHNEH Co. top M-15 E. R. Sprawls E. R. Sprawls 1936 176 18 308 do. do. 14, SEZSEZ 309 M-15 W. F. Wall Creen Mch. do. 1937 172 18 do. 25, SEZNWZ Co. $310 4\frac{1}{4}$ miles 25, M - 1.5Mrs. H. P. do. 1935 172 18 southeast SWANWA Wilkins S. H. Braly 1937 162 18 311 5 miles 26, M-15 do. Gentle southeast SWISE ecola 312 5 miles 24, M-15 D. H. Elliff E. R. Sprawls Ridge 1936 175 18 southeast SW cor. SE2 top 313 do. M-1.5 1936 18 24, do. do. do. 114 SW¹SE¹ 314 5 miles M-15 C. E. Dietrich Green Mch. 1936 175 18 18, ão. southeast MM-WM-Co. $315 \frac{6\frac{1}{2}}{2}$ miles M-15 F. J. - VanArsdal 1914 205 23 21, do. southeast NW-NW-Vannerson 316 7 miles 34, M-15 S. Hearne W. áo. FMKFMU southeast 317 75 miles M-15 A. B. Martin John Tye 1935 18 222 20, do. southeast NW1SE1 318 8 miles 20, M-15 do. 1936 222 18 do. do. southeast SWASEA 319 6 miles 15, M-13 H. J. Nash Green Mch. do. 1937 200 18 NM FNE southeast Co. 320 7 miles M-13 Gentle 1937 200 18 25, Smith & do. south NEISE 1 Barnhart slopa 321 do. 25, M-13 Miss Alice do. do. 1937 220 18 SWINWI Harral 322 216 do. do. M-13do. 1937 18 do. ão.

			Red	cords	obtaine	ed by C. R. Follett
	Height of	Water				
No.	measuring	Depth	Date of	Pump	Usc	Remarks
	point	below	moasure-	and	of	
	above	measui	- ment	power	water	
	ground	ing o		<u>b</u> /	<u>c</u> /	
	(ft.) <u>a</u> /					
306	<u> </u>					Cil test.
307		48	ď/	T,G,	I	Irrigated 143 acres feed and wheat in 1937.
				85		Reported yield, 1,000 gallons a minute.
i						Pump set at 84 feet. 132 feet of 16-inch
308	حب	51	<u>d</u> /	T,G,	I	Irrigated perforated steel craing on bottom.
	·		<i></i>		_	180 acres food, whert and alfalfa in 1937.
					į	Ranorted yield, 1,500 gallons a minute. Pump
309	3-	60	<u>d</u> /	T,G,	† I	Irrigated 220 acres in set at 72 feet.
005	, ,	00	'≟/	85	_	1937. Reported yield, 900 gallons a minute.
				00		Pump set at 96 feet. 152 feet of 16-inch
	1 					steel casing at top, perfor ted below water
310		60	a /	T,G,	I	
2T0		80	<u>a</u> /		1	Irrigated 215 acres in 1937. Report- level.
				8 5		ed yield, 850 gallons a minute. Pump set at
				- ~	 _	84 feet. 150 feet of 16-and 12-inch porfo-
311		50	₫/	T,G,	I	Irrigated 237 rated steel cosing of bottom.
				85	Ì	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,	I	Irrigated at bottom. "Red Beds" at 158 feet.
				85		160 acres feed and wheat in 1937. Reported
						yield, 700 gallons a minute. Pump set at 84
313	1.0	59.2	Nov. 12,	None	N	Used summer of 1936 for irrigation. feet.
			1937			Tried to drill deeper lost toals and abandon-
314	37-	50	<u>a</u> /	T,G,	I	Irrigated 139 acres in 1937. Re- jed well.
			<u> </u>	40		ported yield, 800 gallons a minute. Pump
						set at 96 feet. Sand from 163 to 175 feet.
315	2.5	5 5.1	Nov. 6,	T,0,	N	Not used last 20 years. Reported yield,
			1937	60		1,200 gallons a minute. Pump set at 75 fect.
						205 feet of 28-inch casing. Water level was
		}				measured as 48 feet and 4 inches below cas-
					Ì	ing, which is 6 inches above surface, by
316			 	Nonc	N	Drilling in No- lowner in 1914. See log.
			•			vember, 1937, for irrigetion well.
317	1.0	57.4	Nov. 12,	T,G,	I	Irrigated 530 acros feed and wheat in 1937
→ 1 1	1	1	1937	95	, -	from 2 wells. Reported 28 feet drawdown
			1	1	1	pumping 900 gallons a minute for 24 hours.
	<u> </u>				İ	Pump set at 84 feet. 100 feet of 16-inch
		1	1		1	perforated steel casing from 40 to 140 feet.
318	1.3	59.1	do.	T,G,	Ī	Reported yield, 755 gallons a minute. Pump
010	1.0	1 22.T	uo.	•	1 -	
	-	1	1	85		set at 34 feet. 100 feet of 16-inch perfo-
730		C 4	3/	m c	+	rated steel casing from 40 to 140 feet.
319		64	<u>d</u> /	T,G,	I	Reported yield, 1,000 gallons a minute. Pump
		 		85	 	set at 84 feet.
320				T,G,	I	Reported yield, 800 gallons a minute. Pump
				85	1	set at 96 feet. 200 feet of 16-inch steel
			<u> </u>	<u> </u>		casing, perforated below water level.
321	2.0	68.9	Nov. 4,	T,N,	I	Estimated yield, 750 gallons a minute. Pump
		1	1937	85	-	set at 120 feet. 220 feet of 16-and 12-inch
						steel casing, perforated below water level.
322	1.2	71.2	Aug. 10,	T,,	I	Irrigated 326 acres whoat and feed in 1937.
			1937	85	•	Reported yield, 900 gallons a minute. Pump
	!					set at 96 feet. 216 feet of 18-, 16-, and
		1		}	1	12-inch steel casing, perforated below water
	 		·	·		level.
						Province and American Author

Records of wells in Swisher County-Continued

		Record	ls of w	rells in Swishor	: County-Cont	inued			
No.	Distance from	e Section or	Block	Owner	Driller	Topo- granhic	Date com-	Dopth of	Dian- eter
	Tulia	Survey			,	situ-	pla-		of
	Iuria	Darvey				ation	ted	(ft.)	woll
						et o T O T	000	(10.)	(ir.)
707	61 miles	• • • • • • • • • • • • • • • • • • •	M-13			Gentle		76	6
323	$6\frac{1}{2}$ miles	24,	M-TO					7.0	
	south	NWHIEL	36 3.57	(7) 1 (7) -1 1		slonა Cl	07.8	70	6
324	do•	23,	M-13	Houston School		Slope	Old	70	0
		SE cor. SE						<u> </u>	
325	6 miles	22,	M-13			do.		39	6
	south	Swany	<u> </u>						
326	$5\frac{1}{2}$ miles	21,	M-13	F. M. Hilliard	F. L. Moore	Gentle	1937	221	18
	south	NW cor. NW	<u> </u>			slone			
327	do∙	14, Sełswł	M-13	W. H. Lowe	Green Meh. Co.	Ridge top	1937	24)	18
328	4 miles	8,	M-13	J. L.	Baker &		1929	200	<u> </u>
J. O	south	NE cor. SW2		Stallings	Keagan			1	i {
3288	$3\frac{1}{4}$ miles	4,	M-13		Baker &			1,235	
	south	se ¹ sw ¹			Woodruff			, , , , ,	Ì
320	3 miles	2,	M-13	M. G. Davis	**************************************	Gentle			 -
ULU		NW cor. NW	1/1-10	m. d. Davis		slope			
770			M-13	₫o.		do.	1937	196	18
330	3½ miles	2,	W-13	uo.		αο.	1907	190	10
		SW cor. NW4	35.55				2022		10
331	7 miles south	31, Sw <u>a</u> ne <u>1</u>	M-13	T. E. Duke	W. D. Witt	Ridge top	1937	208	18
332	$7\frac{1}{2}$ miles south	28 , Nw <u>i</u> nwi	M-13	W. F. Kerr	W. F. Korr	Gantle slope	1937	2)9	18
	$8\frac{1}{2}$ miles	37,	M-13		Baker Pump	do•	1937		18
	south	NW cor. NE			Co.		7077	3.26	- 00
5558	a9 miles	38 ,	M-13	R. B.	G. E. Green		1913	195	22
75.4	south	E = 1	1303=	Skinworth	1°, y 72 na	a 1 7	1000	1 647	
334	10½ miles	44,	M-13	H. Sands	D. L. Hendley		1937	241	18
777	south	SW-JSW-J	1,5 3 =			slope		-	1
335	do.	41, SW cor. SW2	M-13			do.			6
336	10 miles	41,	M-13			do•			6
<i>i</i>	south	NW cor. SW						L	L
337	8 miles	27,	M-13	J. R. Barnhart	******	Flat		65	6
÷	south	SE ¹ NE ¹	!	[1
338	do.	20,	M-13	R. L. Edmonson	Green Mch.	Gontle	1937	190	18
,		nw l sw l			Co.	slope			
339	8½ miles	20,	M-13	do.		do.		 	7
,,,,,	south	SW cor. SW1			· -		_		1
740	8 miles	E,	1	do.	Green Mch.	do.	1937	180	18
O#U	ş.		1	αυ•		uo.	T207	100	1 10
77.47	southeast	north end	 	TT	Co.	Da 3	1070	 	7.0
34 <u>1</u>	$9\frac{1}{2}$ miles	SW cor., E.T.	1	Harry Whitfill	***************************************	Ridgo	1933		13
	southeast	Skipworth			7	top			
	10 miles	NNE, F. L.		W. T. Watson	C. A. Mullins		1937	221	18
	southeast		[·		sloco		<u> </u>	!
. / 1.	Я	ont were you		ton of acting i	ton of wood at-		4	-0	arata

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

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

Records obtained by C. R. Follett

			Rec	cords o	obtain	ed by C. R. Follett
]	Height of	Water	Level		1	
	measuring			Pump	Use	Romarks
2.00	point	1 1	measure-	_	of	•
]		1 3				
	abovo	measui				
	ground (ft.) <u>a</u> /			<u>p</u> /	<u></u> /	
323	0.4	63.2	June 5, 1937	C; W	ន	
324				C,W	P	Located near creek.
				,		
325	0.6	32.4	July 26, 1937	C,W	D,S.	Do.
326	<u> </u>	61	<u>d</u> /	T,G,	I	Irrigated 163 acres in 1937. Reported 18
020			<i>≟</i> /	85	; -	feet drawdown pumping 1,000 gallons a minute
327		60	a /		T	
327	-	00	₫/	T, G,	1 +	Irrigat- for 1 hour. Pump set at 100 feet.
	ļ			50		ed 60 acres feed and cotton in 1937. Esti-
						mated yield, 1,000 gallons a minute. Pump
						set at 96 feet. 240 feet of 16-and 12-inch
	<u></u>			•		steel casing, porforated below water level.
328						Oil test. "Red Beds" at 240 feet.
,						* *************************************
328	<u> </u>					Do.
0200	Î				1	
329						Being drilled for irrigation use.
			•			
330				T,G,	I	Irrigeted 40 acres feed in 1937. Reported
550				85	1 -	yield, 850 gallons a minute.
777					I	
331				T,G,	1	Irrighted 170 acres feed and wheat in 1937.
				85		Reported yield, 900 gallons a minute. Pump
						set at 110 feet. 80 feet of 16-inch steel
332	1.2	64.8	June 5,	T,Ng,	I	Measured yield, 1,300 gal- casing at top.
			1937	45	1	lons a minute by W. F. Kerr. Pump set at
					1	95 feet. 172 feet of 15-inch perforated
						stoel casing at top. "Red Beds" at 201 feet.
333				T,-,	I	Reported good well.
000	-				*	Treported good well.
333	t	 	 	None	N	Abandoned. Reported yield, 600 gallons a
						minute. See log.
334	1.6	70 1	Sept.24,	T,G,	I	Irrigated 25 acros feed in 1937. Reported
JJ4	1.0	13.4	1937	85	1	1
17177	 	60.0			 	yiold, 850 gallons a minute. See log.
335	0.5	60.9	May 14,	None	N	
777	 	E1 C	1936	/ TT	I	
336	0.5	21.2	July 15,	C,H	1 24	
			1937	<u> </u>		
337	3.4	56.3	May 14,	C, W	D,S	Estimated yield, 3 gallons a minute.
			1937			
338	1.0	60.1	Nov. 3,	T,G,	I	Estimated yield, 900 gallons a minute. 60
			1937	85		feet of 16-inch steel casing at top.
339	0.0	47 0	May 14,	C, N	N	220 02 20 2202 00002 0002205 00 0001
003	1	1 =1.0	1937	0,10	1	
340	-	 	1201	T,G,	Ī	Immigrated 240 comes of food and wheat in
540				1	1 1	Irrigated 240 acres of feed and wheat in
	<u> </u>	-	-	85	<u> </u>	1937. Reported yield, 900 gallons a minute.
341	1.5	56.3	Nov. 3,	T,0,	I	60 feet of 16-inch steel casing at top.
	<u> </u>	1	1937			
342	1.0	47.8	do.	None	N	Reported yield, 250 gallons a minute. "Red
	1			-	1	Beds" at 189 feet.
			3.3.5			

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

		Record	is of v	rells in Swisher	r County-Cont	inued			
No.	Distance		Block	Owner	Driller	Topo- graphic	Date com-	Depth of	Diam -
	from Tulia	or Survey				situ-	1	well	of
	14114	Darvey				ation	ted	1	well
									(in.)
343	í	NW J. F. L.		W. T. Watson	C. A. Mullins		1937	225	18
711	southeast			C. A. Burchard	J. C. Cook	slope	1936	195	18
344	9½ miles south	SW4, W. W. Christie		C. A. Burchard	J. C. COOK	Ridge top	T220	190	1 70
	Boutin	01113010				U P			
345	10 miles	NW4, W. F.		P. G. Wimberly		do.	1914	236	60
710	south	Martin		THE CO. CO.	16 C C	0	7.000	3.40	1-30
346	ll miles	SW1, S. N. Jackson		W. C. Cowan	W. C. Cowan	Gentle	1937	148	18
	south	Jackson				slope		Ì	
347	12 miles	51,	M-13	A. S. Jackson	W. D. Witt	Ridge	1937	197	18
	south	nwasea				top			
								İ	İ
740	101	60	36 37			0		 	6
<i>3</i> 48	$12\frac{1}{2}$ miles south	60, NW cor. NW	M-13			Gentle slope		-	0
349	112 miles	51,	M-13	Mrs. Charles	Green Mch.	do.	1937	191	18
	south	NW cor. NW		M. Elam	Co.				-
		_							
350	$10\frac{1}{2}$ miles		M-13	W. O. Caldwell	- Casebolt	do.	1937	202	18
	south	NM ‡ NM ‡							
									1
351	ll miles	49,	M-13	D. M. Springer	J. C. Cook	do.	1933	190	18
	south	nw≟s e ≟							
352	ll ¹ / ₂ miles	52,	M-13			Flat		 	6
002	south	NW i ne?	M-10			LIAL			
353		52,	M-13	Kress High		Gentle		65	6
		SE ¹ ANE ¹ / ₄		School		slope			
354	12 miles	52,	M-13			do.		-	
355	south	NW cor. $SW_{\frac{1}{4}}$	M-13		J. C. Cook	do.	1934	200	18
000	south	NW cor. NW	141-12		3. 0. 000k	uo.	1304	200	10
356	do.	54,	M-13	D. C. Beaty	D. L. Handley	do.	1937		18
		NW cor. NW						<u> </u>	
357	12 miles	54,	M-13		Green Mch.	Ridge	1937		18
358	south $12\frac{1}{2}$ miles	SW 4SE 4 56,	M-13	Federal Land	Co.	top Gentle			6
500	south	NE cor. NE		Bank		slope			
359	do.	57,	M-13		Green Mch.	do.	1937	220	18
		NW 1 NW 4			Co.				
360	13 miles	57,	M-13	Z. J. Thomas		Flat		89	6
361	south 14½ miles	SE. cor. SE	M-13	L. Kennedy	- Barton	Gentle	1937	202	18
201	south	SW ¹ NW ¹	101-12	L. Reimeuy	- Darton	slope	1907	202	10
	w WAA	4				22020		ļ	
362	14 miles	64,	M-13	4-01-400		Slope			6
767	south 15 miles	SW ¹ SW ¹	ችሮ ነማ			to lake			6
202	south	66, SW <u>i</u> nei	M-13			do.			
ئىيىپ	~~~	. ~4+.44						i	

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			Rec	cords	btain	ed by C. R. Follett
	Height of		Level			
No.	measuring			Pump	Use	Remarks
!	point		measure-	and	of	
	above	i e	r- ment			
	ground (ft.) <u>a</u> /	ing po		<u>b</u> /	<u>c/</u>	
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 83t 75 feet
346				T, Ng, 50	I	Irrigated 150 acres wheat in 1937. See 103. Reported yield, 800 gallons a minute. Pump set at 100 feet. 73 feet of 18-inch steel
347	•	65	<u>å</u> /	T,G, 85	I	Irrigated 223 acres in casing at top. 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.
34 8	3.5	63.6	May 12,	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,	Nov. 1, 1937	T,G, 85	I	Reported yield, forated below water level. 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	<u>a</u> /	T,G,	I	Irrigated 54 acres in 1937. Re- 200 feet. ported yield, 700 gallons a minute. Pump set at 80 feet. 100 feet of 14-inch perforated steel casing from 40 to 140 feet.
352	0.3	59.4	May 7, 1936	None	N	
353			1	C,W	P	1 444-17
354	0.4	61.6	May 12,	C, -	N	Was irrigation well with pump jack and 4-inch water pipe.
355	<u> </u>	62	₫/	T,Ng, 85	I	Irrigated 96 acres feed, wheat and cotton in 1937. Reported yield, 700 gallons a minute.
356			-	T, G,	ī	Irrigated 155 acres in 1937. Reported yield, 800 gallons a minute.
357						Drilling for irrigation well in December 1957.
358	0.4	74.5	May 12,	€,-	N	
359	2.0	75.7	Dec. 1,	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			

<u>–</u>25–

	A.,	Record	is of t	wells in Swisher	County-Cont	inued			
No.	Distance from Tulia	e Section or Survey	Block	Owner	Driller	Topo- graphic situ- ation	com-	well	Diam- eter of well (in.)
364	13½ miles south	63, NW l NW l	M-13	Lincoln Nat'l. Life Ins. Co.		Flat			10
365	14 miles south	63, NW cor. SW	M-13			Slope to lake			6
366	$14\frac{1}{2}$ miles south	NW R. Williams		L. J. Knuckles	O. W. Barnett		1937	268	18
367	do.	Ne Nul R. Williams		do.	do.	do.	1937	295	18
36 8	do.	R. F. Hudgins		Texas Land & Development Co.		Flat	Òld	212	26
369	do.	do.		do.	entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre entre en	do.	01d		26
370	do.	do.		do.		do.	1914	34 8	26
	15 miles south	P. Tisdell.		do.		Gentle slove	01d		26
372	do•	SW½, H.J. Tisdell		do.		Gently rolling	01d		26
373	14 miles south	51, SW cor: SW2	M-14	G. E. McGrede	***	Gentle slope			
374	do•	51, Sw <mark>á</mark> Swá	M-14	do•	Baker Pump Co.	do•	1937	200	18
375	13 miles south	52, SW 2SW2	M14	Texas Land & Development Co.	<u></u>	₫o.	0 1 d		26
376	12½ miles south		M-14	H. F. Axtell	Fox	do•	1937	400	18
377	13 miles south	41, NE 2SW 2	M-14		<u></u>	Flat		92	6
378	$13\frac{1}{2}$ miles south		M-14	`		Gentle slope	1937		
379	14 miles south	43, NW cor. NW	M-14	Joe Bontke	Joe Bontke	do.	1937	222	18
380	$14\frac{1}{2}$ miles south	43, Se <u>i</u> ne <u>i</u>	M-14	do.		do.			6
381	15 miles south	43, SW 1 SE1	M-14	do.	J. C. Cook	do.			18
382		45, NW 1/2 NW 1/2	M-14	Bob Hooper		do.			6
383		54, NW cor. NW	M-14	Texas Land & Development Co.	-4	Flat	Old	208	26
384	do.	54, NW4NE4	M-14	do.		do.	1915	165	26
385	ão.	53, NW cor. NW ¹ / ₄	M-14	do.		do.	Old		26
386	do.	53, NW I NWI	M-14	do.		Gentle slope	01 d		26
401	$12\frac{1}{2}$ miles west		M- 6			Ridge top	1933	110	6

Records obtained by C. R. Follett

-				COLUB	COUCLIE	ed by C. R. Follett
	Height of		r Level			,
No.	measuring	Depth	Date of	Pump	Use	Romarks
	point	below	measure-	and	of	
	above	measu:		power	wator	
	ground	ing po	oint	<u>b</u> /	_c/	
	(ft.) a/	(ft.)			-	
364	0.4		May 12,	None	N	Drilled for irrigation and later abandoned.
001	""	, , , ,	1936	2,0220	-	
365	0.5	69.4		C, W	D	
500	0.0	05.1	40.	٠, ١٠	"	
366	1.3	770 4	Cont 15	T,G,	I	Invigated 50 sense food in 1077 Perented
200	1.0	70.4	Sept.15,	1,60	1	Irrigated 50 acres feed in 1937. Reported
			1937			yield, 800 gallons a minute. 248 feet of
7.00				m 0		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,	Т,О,	N	Reported casing, perforated below water.
			1936	60		good well, but not used.
369	1.5	74.1	do.	T,0,	I	Irrigated 150 acres feed, wheat and cotton
				60		in 1937. Drawdown, 21 feet, pumping 907
370	1.0	72.6	do.	T,0,	N	Reported good well but gallons a minute.
						not used. See log.
371	0.4	67.3	May 7,	T,0,	I	Irrigated 110 acres feed and cotton in 1937.
			1936	60	_	Reported yield, 1,100 gallons a minute.
372	1.5	63.6		T,C,	I	Irrigated 95 acres feed, cotton and wheat in
012	1.0	00.0	40.	60	_	1937. Reported yield, 700 gallons a minuto.
373	Ó.	77 0	May 6,	C,W	D	1307. Reported yield, 750 garrons a minute.
575	4	/1.0		₩ و ن	L D	
C7 E1 4		70	1936	E a	 	7
374	-	72	<u>å</u> /	T,G,	I	Irrigated 195 acres wheat and cotton in 1937
				85	1	Reported yield, 950 gallons a minute. Suppl
						weakened in summer. Set 16-inch perforated
375	0	58.4	May 7,	C, W	D	steel casing from 50 to 100 feet.
			1936			
376	1.3	69.9	Nov. 3,	T,G,	I	Irrigated 96 acres in 1937. Reported 26
			1937	85		feet drawdown pumping 900 gallons a minute
	1					for 4 hours. Pump set at 130 feet. See log
377	o o	74.	May 6,	C,W	D	
			1936		_	
378					<u> </u>	Drilling for irrigation well in September,
0,0						1937.
379		61	<u>d</u> /	T,G,	 I	Irrigated 80 acres feed and wheat in 1937.
UIT	1-5-	0.1	<u> </u>		1	, -
				85		Reported yield, 700 gallons a minute. 14-
200	 	 	34			inch perforated steel casing from 50 to 134
380	0.3	54.5	May 6,	C,W	S	feet.
			1936		ļ <u>.</u>	
381	1.6	64.8	do.	None	N	Drilled for irrigation. Reported yield,
	<u> </u>		<u> </u>			350 gallons a minute.
382	0	66	de.	C,W	D	
383	1.5	72.2	Apr. 18,	T,0,	I	Irrigated 50 acres feed and cotton in 1937.
			1934	60	1	
384	1.5	61.6		None	N	
			1			
385	0.3	68 4	May 4,	T,_	N	Reported good well but not used.
500		50.7	1936	± , ~~	1 "	Tropoz voa Bood morr pan mon about
386	3.5	70.0		T,0,	Ī	Irrigated 153 acros feed, whoat and cotton
೨೮೦	0.0	10.8	Sept.21,	1,∪,	1 -	
403	 	05.0	1937	73 127	NT.	in 1937. Reported yield, 1,000 gallons a
401	0.6	1 95.2	Sept.14,	C,W	N	minuto.
	ŧ	ł	1937			

		Pacor	da of t	-27- wells in Swishe:	r County-Cont	tinued			
						Indod			,
No.	Distance		Block	Owner	Driller	-ogoT			Diam-
	from Tulia	or Summer				graphic	com⊷	of	eter of
	Tuila	Survey	1			situ- ation	ted	woll (ft.)	well
			į			a01011	000	120.7	(in.)
402	9 miles	20,	M-6	Lakeview	·	Slope		100	6
	west	NW cor. NW		School					,
403	8 miles	20;	M-6		-	Above	Old	100	6
404	west do.	NE cor. SE	M-11	Louis Redmon	W. C. Cowan	draw Ridge	1937	242	18
104	u.o.	SW4SW4	141-11	Louis icomon	ar or oonan	top	1507	1 220	
							į		ĺ
-									<u> </u>
405	$3\frac{1}{2}$ miles	1,	M-11	A. A. Vaughn	R. J.	ão∙	1937	190	26
	southwest	SW {NE {			Stallings				
				,					
406	8½ miles	6,	K-2	McGuire School	148-as	Gentlo		100	6
		SE cor. SE				slope			
407	7분 miles	14,	K-2	L. W. Abbot	Bill Muney		1937	229	18
	southwest	NW \$SW \$	<u>.</u>					İ	1
408	7 miles	15,	K-2	J. A. Ellis	Green Mch.	Gentle	1937	202	18
	southwest	SW4SE4			Co.	slone			
	Andrew Principles		*						
							- 0 - 0		
409	8 miles southwest	4, NW NE 1	K	Ross Wingo	Bartlett		1936	190	18
	Southwest	TAM STATE							
410	9½ miles	9,	K	E. E. Cox	Green Mch.	Ridgo	1936	167	18
	south	NW≟SW≟	ļ		Co.	top			
411	10 miles south	13,	K	Cecil Rousser	do.	do.	1937	200	18
	South	SW 4NE 4							
412	10 miles	10,	K	L. M. Frogge	do.	do.	1936	200	18
	southwest	Se ₄ SW ₄	1			i			
			•			ļ 1			
413	do.	11,	K	C. B. Jones	— Туе	do.	1936	190	18
		SW-1NE-1		0. 2. 00102	230	•	1550	130	
43.4	301 3	3.5	77	N 0 77:	O		3.005	000	
414	10 ੈ miles southwest	15, NW ½NW ½	K	M. C. Vinyard	Green Mch. Co.	Gentle	1937	200	18
	Southwest	14M 414M 4			00•	slope		1	
415	12 miles	21,	K	T. B. Carter	F. Lard	Ridge	1937	309	18
	southwest	SW LNW L			-	top			
		- -							
410	701	05	T/F	II D D31		0	3.007.4		1 70
4TP	$12\frac{1}{2}$ miles southwest	22, sw <u>ł</u> nw <u>ł</u>	K	H. R. Budke		Gentle slops	1934	200 (?)	18
	COULTMASE	Du 41/11/4	·			: BIODO		()	

Records obtained by C. R. Follett

			Re	cords (obtaine	ed by C. R. Follett
	Height of	Wate:	r Level			
No.	measuring	Depth	Date of	Pump	Use	Remarks
	point		measure-		of	
	above	measu		nower	water	
	ground	ing p		b/	<u>c</u> /	
	(ft.) a/	(ft.)		=	<u> </u>	
402	(2007 00)	(10./		C, W	P	
402				U, #	1	
403	3.7	07 6	Comb. 3.4	O II	N	
403	3.7	81.0	Sept.14,	C,H	10	
404		105 1	1937	5 . 0		T
404	1.8	109.1	Oct. 27,	T,G,	I	Irrigated 115 acres feed and alfalfa in 1937.
		ł	1937	85		Reported yield, 850 gallons a minute. Pump
						set at 130 feet. 130 feet of 14-inch stoel
				<u></u>		casing at too, perforated below water level.
405		68	<u>a</u> /	T,G,	I	Irrigated 163 "Red Beds" at 242 feet.
				45		acres feed, wheat and cotton in 1937. Re-
			:			ported yield, 850 gallons a minute. Pump
	•	ĺ	:			set at 110 feet. 110 feet of 20-inch steel
						casing at top, perforated below water level.
406	it			C,W	P	Sand and gravel from 165 to 190 feet.
			j			
407	-05_	91	<u>d</u> /	T,G,	ī	Irrigated 280 acres feed, wheat and cotton
20.		"-	<u> </u>		_	in 1937. Reported 39 feet drawdown pumping
						900 gallons a minute. Pump set at 126 feet.
	ŀ					229 feet of 14-inch steel casing perforated
408	1.0	07 0	Sont 24	T,G,	I	
408	1.0	07.9	Sept.24,		1	Irrigated 75 acres feed below water level.
			1937	85		in 1937. Estimated yield, 750 gallons a
						minute. 202 foet of 16-,14-, and 12-inch
-						steel casing, perforated below water level.
409	-	70	<u>a</u> /	T,G,	I	Irrigated 290 acres feed and wheat in 1937.
	ł			85		Reported yield, 800 gallons a minute. 190
						fest of 16-inch steel casing, perforated
410	1.0	93.7	Sept.23,	T,G,	I	Irrigated 525 acres below water level.
			1937	85		feed and wheat in 1937. Roported 24 feet
						drawdown pumping 800 gallons a minute for
411	1.0	89.9	do.	T,G,	I	Irrigated 3 weeks. Pump set at 114 feet.
				85		190 acres feed and wheat in 1937. Reported
						yield, 900 gallons a minute. Pume set at
	ļ					112 feet. 150 feet of 16-and 12-inch per-
412	1.0	98.5	Sept.24,	T,G,	I	Irrigated forated steel casing at bottom.
	, ====		1937	85	_	365 acres feed, grain and cotton in 1937.
			1307			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	al	T,G,	I	
#T0		00	<u>d</u> /	1	7	Irrigated casi from 30 to 200 feet.
				85		280 acras 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,	T,G,	I	Estimated yield, 775 below 91 feet.
			1937	85		gallons a minute. Pump set at 120 feet.
						194 feet of 15-inch steel cosing, perforated
415	, .	96	d/	T,G,	Ī	Irrigated 300 acres below water level.
•			-	85		feed, wheat and beens 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.
	L	i			<u> </u>	TWOOL OUR ALOTA! NOO ENTLONG O MILITAGE

Records of wells in Swisher County-Continued Dato Depth Diam-Distance Section Block Owner Driller -ogoT No. graphic comof eter from or olesituwell of Tulia Survey (ft.) | well ted etion (in.) 210 1936 417 13 miles 87, M-11 Rousser Bros. Green Mch. Ridge 18 Co. top southwest SWASEA Gentle 1937 210 26 O. Milner 418 15 miles 93, M-11 southwest NW cor. NW 4 slope M-11 N. D. Green Mch. Ridge 1937 200 18 419 135 miles 69, Co. ME FIME southwest Goldsmith top 228 420 17등 miles K-3 W. M. Stalcup G. Gorman Gentle 1937 18 13. southwest NW cor. NW2 slove 1937 240 20 421 193 miles K-3 - Sawyer do. 9, A. V. perryman southwest VM-FMM-F 30, Ridge 1937 18 422 16 miles K - Bartlett 204 G. E. Curry southwest NE SW top Baker Pumo 1937 260 18 423 17 miles K 35, R. Q. do. southwest **SMFMS** Co. Silverthorn K Green Mch. 1937 202 18 424 16 miles A. McDaniel do. 35, southwest NE cor. NE Co. 425 17 miles K E. E. Degge J. C. Cook 1936 293 18 39, do. southwest SEEWE 426 K J. P. Qualls do. Gentle 1935 275 18 do 46, NW4NE4 slope 427 14 miles 31, K Flat 01d 104 6 SW &SW & southwest 428 13 miles K 6 23, southwest NE LSW L 429 13 miles J. A. Ward C. Reed Green Mch. Gentle 1937 198 18 NW cor. south slope Co. 430 do. C-4 do. Old 90 6 18, do. MMSMMF

Green Mch.

do.

1937

808

18

V. R. Hill

431 9 miles

south

East of SW

cor. sec.36,

M-13

Co. 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 hersepower.

			Ro	cords o	obtain	al by C. R. Follett
	Height of	Water	r Level	-		
No.	measuring	Depth	Date of	Pump	Use	Remarks
ì	point	bolow	measure-	and	of	1
	above	measu	r- ment	power	water	
ļ	ground	ing po	oint	<u>b</u> /	<u>c</u> /	
	(ft.) <u>a</u> /	(ft.)				
417		95	<u>d</u> /	T,G,	I	Irrigated 173 acres in 1937. Reported yield
			-	50		1,200 gallons a minute. 144 feet of 16-and
					<u> </u>	14-inch steel casing at top, perforated be-
418	1.0	75.7	Oct. 6,	T, G,	I	Irrigated 180 acres feed low water level.
			1937	40		and wheat in 1937. Reported yield, 1,000
419	1.5	110.5	Oct. 27,	·	I	Irrigated 240 acres feed gallons a mirute.
			1937	100	ĺ	in 1937. Reported yield, 1,200 gallous a
						minute. Pump set at 140 feet. 200 feet of
		9				16-and 14-inch steel casing, perforated be-
420	2.0	69.5	Oct. 6,	T,G,	I	Reported yield, 1,000 low water level.
-20	~• ♥	""	1937	32	_	gallons a minute. Pump set at 80 feet. 200
			1	25		feet of 16-inch steel casing at top, perfor-
421	-	60	<u>d</u> /	T,G,	Ī	Irrigated 80 acres attached below water level.
-TOT	, , _		<u> </u>	50	1	in 1937. Reported yield, 1,200 gallons a
				30	İ	minute. Pump set at 100 feet. 230 feet of
					į	(<u>-</u>
422		700 72	Oct. 6	m c	I	20-inch steel casing at top, perforated be-
422	2.0	70.3	Oct. 6,	T, G,	1	Irrigated 245 acres feed, low water level.
			1937	85		wheat and cotton in 1937. Reported yield.
						1,000 gallons a minute. Pump set at 90 feet
						204 foot of 16-and 14-inch steel casing, por
423	1.2	65.8	Oct. 7,	T,G,	I	Irrigated 230 forated below water level.
			1937	85		acres feed and wheat in 1937. Reported
424	2.0	71.7	do.	T,G,	I	Irrigated vield, 1,000 gallons a minute.
			1	85		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,	I	Irrigated 186 forated below water level.
				35		acres in 1937. Reported yield, 900 gallons
					•	a minute. Pump set at 90 feet. 15-and 12-
أـــــا						inch perforated steel casing from 45 to 210
426	0.7	62.5	do.	T,G,	I	Irrigated 243 acres feed and wheat feet.
			1			in 1937. Reported yield, 900 gallons a
					į	minute. Pump set at 80 feet. 100 feet of
						16-inch steel casing at top, perforated be-
427	3.0	85.8	July 17,	C,W	S	low water lovel.
			1937		ł	processor and a second
428	0.3	88.	May 12,	None	N	
	_		1937			
429	3.5	96.7	Sept.23,	T,G,	Ī	Estimated yield, 700 gallons a minute.
			1937	85		
430	0.4	87.5	July 28,	C,W	s	
±00	0 • -	0,.0	1937	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
431			1907	T,G,	I	Irrigated 220 serves food and wheat in 1020
TOT				1,00	ļ	Irrigated 220 acres feed and wheat in 1937.
	· · · · · · · · · · · · · · · · · · ·	I	1		<u> </u>	Reported yield, 800 gellons 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.)

of the Northern Liano Es	ស គីឧព ព0 រ	Univ. of Tex. Bull. 57, 1915.		
Thickness				Depth
(feet)	(feet)	(f)	eet)	(feet)
Driller's log of well 19		Driller's log of well 124-	-Conti	nued
D. E. Armontrout farm. 92 miles nor	oth_	White lime rock	4	40
west of Tulia.	. 011	Water sand	10	50 50
	92	White chalky rock	10	6 0
	105	Brown sand and gravel-	30	90
1.4.0.	172	[]	7	90 97
	186	Hard white flint	5	102
White sand and some gravel - 14	\$	Brown sand and gravel	ì	
Sandy clay 14	200	Brown clay	26	128
River sand, gravel and shells- 15	215	Sandy clay	46	174
Red mud and gravel9	224	Red gumbo clay	6	180
Red beds	224	Red sand and gravel	4	1.84
TOTAL DEPTH	224	Red bods	4	188
First water at 83 feet.		TOTAL DEPTH	ļ	188
CASING RECORD: 224 feet of 14-inch		CASING RECORD: 120 feet of 1		
casing, perforated below water.leve	1.	ing at top, perforated below	water	e lovel
Driller's log of well 36		Driller's log of wel	1 132	
Foster Klaus farm. 4½ miles northwe	ast	A. & H. Price farm. 13 mile		t of
of Tulia.		Tulia.	D 045.	0 01
Formation unknown) 59	1 59	Top soil	5	5
Sand rock and shale 41.	100	Red clay	25	30
	135	Hard sand rock	<i>ష్</i> ర 2	32
Fine-grained hard sand 35 Hard rock 3	138	1 1		47
Packed sand7	145	Hard white rock	15	50
I COMOG DOZIO	ž .	Soft white rock	3	:
Soft coarso-grained sand 40	185	Hard packed sand	4	54
Shale 4	189	Hard flint rock	6	60
Hard sand 15	204	Coarse-grained gray water		
Shale and sand rock 22	226	sand	4	64
TOTAL DEPTH	226	Hard red sand rock	11	75
		Coerse-grained gray water		
Driller's log of well 108		sand	6	81
D. D. Augspurger farm. $16\frac{1}{2}$ miles n	orth-	Loose red water sand	5	86
east of Tulia.		Hard gray send	3	89
Soil and clay 71	71	Soft white clay	1	90
Hard rock 6	77	Packed gray water sand	5	95
Hard sand 13	90	Loose red water sand	4	99
Soft rock 8	98	Hard gray sand rock	23	122
Sand 12	110	Loose red water sand	35	157
Gypsum rock 5	115	Hard gray sand rock	6	163
Hard rock 12	127	Red clay	7	170
Sand rock 23	150	Hard packed gray water	•	
Soft rock 11	161	sand	14	184
Yellow clay 8	169	Blue gumbo	2	186
Coarse-grained sand 35	204	Coarse-grained gray water	~	100
Red clay 6	210	sand	12	198
TOTAL DEPTH	210	Red clay	12 2	200
TOTAL DEPTH-	1 210	1 1	4	200
Desiliante las of wall 194		Coarse-grained gray water	e	200
Driller's log of well 124	a.e		6	206
W. C. Watson farm. 10 miles east	OT.	Hard sand rock	1	207
Tulia.	1 70	Coerso-grained gray water	4	
(Formation unknown) 30	30	sand	4	! 211
White clay 6	36	(Continued on next bag	,e)	

Table of Drillers	, roge, p	wisher County-Continued	
Thickness	Dopth	Thickness	
	(feet)	(feot)	(feet)
2 15 0 mm	÷mus A	Decided to a second 315 Cont	houri
Driller's log of well 132 Cont	1 214	Driller's log of well 315—Cont	1 4
DIG Sumo	2.14	Red clay 17	21
Coarse-grained gray water	219	Gray sand 35	56
sand 5	229	11 02:0	60
Hard red sand rock 10	3	I HOLOGE DOLLER	80
Red clay 31	260	Coarso-grained sand 20	1
TOTAL DEPTH	260	Gray water sand 20	100
		Hard packed sand 105	205
Driller's log of well 220		TOTAL DEPTH	205
- Gunter farm. 10 miles southeas	st of		
Tulia.		Driller's log of well 333	E
Surface soil 3	3	R. B. Skipworth farm. 9 miles so	outh of
Caliche 9	12	Tulia.	
Clay 21	33	Top soil 58	58
Caliche rock9	42	Dry sand6	64
Hard lime rock 8	50	Sand and boulders 10	74
Water-boaring sandstone 8	58	Soft sand 26	100
Clav 7	65	Sand rock 12	112
Water sand 5	70	Soft sand 9	121
Clay 15	85	Packed sand 62	183
Water sand and gravel 5	90	Sand and gravel 7	190
Clay 22	112	Hard rock 4	194
Sandstone 8	120	Rod clay 1	195
Red beds 114	234	TOTAL DEPTH	195
TOTAL DEPTH	234	CASING RECORD: 46 feet of 22-inch	ı casina
101501 1111		46 feet of 20-inch, perforated; 9	
Driller's log of well 227		of 12-inch, perforated; bottom 13	
N. G. Poe farm. 14 miles southeas	st of	uncased.	
Tulia.			
Top soil 50	50	Driller's log of well 334	Ŀ
Sand and boulders 22	1	H. Sands farm. 10 miles south of	ฉ วิกิ∏าะไi≀
Yellow clay 43		Top soil 3	3
Sand21		Galiche (clay and rock) - 10	13
Yellow and white clay 59	1	Yellow clay 20	33
Sand and gravel 9		Red clay 10	43
TOTAL DEPTH	204	Red send and clay 20	63
CASING RECORD: 75 feet of 18-inch		Red sand, water 20	83
pipe; 129 feet of 12-inch shutter	- ch Da	White sand, water 20	103
screen.		Red sand and caliche rock- 20	123
m .nn . 1		Pink send 20	143
Driller's log of well 302		Packed sand and clay 40	185
J. D. Vaughn farm. $1\frac{1}{4}$ miles sout	nwest or	Layered red clay and spongy	007
Tulia.	1 54	.sand 40	223
(Formation unknown) 54	3	Gray sand 16	239
Hard rock 8	1	Spongy sand with snots of	
Soft yellow send 31		sandstone 2	241
Hard rock 3	1	TOTAL DEPTH	241
Coarse-grained yellow sand - 69	1	CASING RECORD: 240 feet of 16-inc	
Sand rock 7	3	14-inch steel casing at top, perf	coreted
Hard rock 5	1	below water level.	
Red clay 56	· ·		
TOTAL DEPTH	233	Driller's log of well 345	
		P. G. Wimberley farm. 10 miles s	south of
Marillania log of wall 315	;	(Pulis	

Driller's log of well 315

of Tulia.

Tulia. F. J. Vannerson farm. $6\frac{1}{2}$ miles southeast (Formation unknown) - - -(Continued on next page)

Thickness (feet)	Depth (feet)	T	hickness (feet)	Depth (feet)
(1000)	(1630)		(1000)	120007
Driller's log of well 345Conti	horeni	Driller's log of well	370Cont	inned.
Rock 12	6	Sendstone and boulders-		1 198
Soft sand 4	6	Shale		241
Sand and rock 29	9	Shale rock		263
Soft sand 42	13	Clay	8	271
White clay 8	14	Shale rock		280
White sand 25	17	Shale		287
Gravel 16	18	Shale rock		298
Red clay 50	23	Shale		311
TOTAL DEPTH	23	Shale rock		314
	***************************************	Lime rock		318
Driller's log of well 370		Shale rock		336
Texas Land & Development Co. tract	t. 14 1	Shale		341
miles south of Tulia.	~	Shale rock		348
Top soil 3		TOTAL DEPTH		348
Clay and chalk 3				
Clay 12	1	Driller's log of	well 378	5
Shale rock 3	2	H. F. Axtell farm. 121		
Shale6	2	Tulia.		
Clay 7	3	(Formation unknown)	45	1 45
Shale3	3	Dry sand		76
Shale rock 5	4	Flint rock	3	79
Clay 9	5	Caliche and boulders	61	140
Shale 11	6	Water sand	- 3	143
Clay 4	6	Caliche	- 43	186
Water sand 6	7	Water sand	- 4	190
Lime rock and boulders 6	7	Red beds	- 98	288
Lime rock 3	8	Water sand	– 2	290
Shale 6	8	Red bods	- 97	3 87
Clay 11	9	Water sand	- 3	390
Shale 9	10	Blue clay	- 10	400
Soft sandstone, water 8	11	TOTAL DEPTH	_	400
Shale 7	12	CASING RECORD: 77 feet of	f 15-inch	steel
Shale rock 9	13	casing at top.		
Water sand 8	13			
Sandstone, water 8	14			
Shale 7	15			
Sandstone, water 13	16			
Shale9	17			
Sandstone, water 14	19			
Lime rock, sandstone and				
boulders 6	19	11		

(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.

No.	Geo	logical Survey. I	Results a	re in parts pe	r million. W	ell nu	mbers co	rrespond to	numbers	in the	e table	of we	ll records.)	
No. well collection solids (Ca) (Mg (Na f K) (HCO ₃) (SO ₄ (Ca) (NO ₃) as CaOO ₃ (Calculated) 3 A. A. Fonken 102 July 16, 1937 348 268 64 20 2/4 - 12 C. D. Taylor 72 July 24, 1937 399 - 305 50 50 8/4 - - 15 R. Simmons 99 do 344 - 255 43 47 g/4 - 17 Kaffir School 85 Dec. 2, 1937 330 55 21 44 293 36 30 g/4 223 19 D. E. Armontrout 224 Oct. 28, 1937 269 56 24 112 244 39 18 g/4 240 21 Childress School 105 Dec. 2, 1937 290 55 23 22 244 54 14 4 234 234 234 235 35 W. C. Hulsey 245 Nov. 23, 1937 317 52 33 25 305 39 15 a/4 265 35 30 3/4 225 37 37 37 39 39 - - - - 39 20 a/4 - - 102 Union Hill School 80 Nov. 24, 1937 396 50 43 41 342 64 30 a/4 301 301 301 304 301 301 304 301 304 301 301 304 301 304 301 301 304 301 301 304 301 301 304 301 301 304 301 304 301 304 301 304 301 301 304 301 301 304 301 301 304 301 301 304 301 301 304 301 301 304 301 301 304 301 301 301 304 301 301 304 301 301 304 301 30			Depth	Date	Total	Cal-	Magne-	Sodium and	Bicar-	Sul-	Chlo-	Ni-	Total	
(ft.) (calculated	Well	Owner	of	of	dissolved	cium	sium					trate		
(calculated) (calculated) (calculated) (calculated) (calculated) (calculated) (calculated)	No.		well	collection	solids	(Ca)	(Mg)	(Na ≠ K)	(HCO ₃)	(SO ₄)	(C1)	(NO_3)		
12 C. D. Taylor 72 July 24, 1937 399 - 305 50 50 47 -			(ft.)		(calculated)	í		(calculated)		1	i		(calculated)	
15 R. Simmons 99 do. 344 - 256 43 47 2/ -	3	A. A. Fonken	102		342	-	-		268		20	_3/		
17 Kaffir School 85 Dec. 2, 1937 330 55 21 44 293 36 30 3 223 19 D. E. Armontrout 224 Oct. 28, 1937 269 56 24 12 244 39 18 3 240 21 Childress School 105 Dec. 2, 1937 290 55 23 22 244 54 14 4 234 35 W. C. Hulsey 245 Nov. 23, 1937 317 52 33 25 305 39 15 3 265 38 J. B. Johnson 65 Sept. 13, 1937 398 - 323 61 30 3 - 53 City of Tulia 160 Dec. 2, 1937 - - - 39 20 3 - 102 Union Hill School 80 Nov. 24, 1937 396 50 43 41 342 64 30 3 301 104 Salem School 80 Nov. 29, 1937 338 42 40 34 317 43 18 3 270 31 107 Vigo Park School 80 do. 287 44 33 19 244 47 25 3 245 110 T. W. Payne 166 do. 465 44 34 38 40 34 31 44 47 25 3 245 118 T. L. Parker 206 do. 352 47 36 40 342 43 14 3 267 125 W. C. Watson 70 Nov. 26, 1937 355 - - 287 54 28 3 - 126 do. 52 do. 353 52 32 38 305 57 24 3 260 205 Elkins School 48 do. 340 57 28 37 306 39 25 8 257 208 Love School 55 Dec. 2, 1937 - - - - - - 61 30 3 - 208 Love School 55 Dec. 2, 1937 37 32 46 38 348 29 16 3 264 236 E. R. Lovern 232 Nov. 9, 1937 337 32 46 38 348 29 16 3 269 320 Smith & Barnhart 200 Dec. 2, 1937 311 56 30 24 323 25 25 31 32 25 321 Miss Alice Harrel 220 Nov. 4, 1937 311 56 30 34 325 325 32 36 36 348 39 36 322 do. 216 Aug. 10, 1937 314 42 43 18 287 29 31 34 281 324 Houston School 70 Dec. 3, 1937 328 54 33 328 323 29 55 34 270 322 W. F. Kerr 209 June 5, 1937 406 66 50 15 323 68 48 49 371	12	C. D. Taylor	72	July 24, 1937	399	-	-	_	305	50	50	<u>a</u> /		
19 D. E. Armontrout 224 Oct. 28, 1937 269 56 24 12 244 39 18 3 240	15	R. Simmons	99		344	-	-	100	256	errore con miles	47	<u>a/</u>	24	
21 Childress School 105 Dec. 2, 1937 290 55 23 22 244 54 14 2 234	17	Kaffir School	85	Dec. 2, 1937	330	55	21	44	293	36	30	<u>a/</u>	223	
35 W. C. Hulsey	19	D. E. Armontrout	224	Oct. 28, 1937	269	56	24	12	244	39	18	<u>a/</u>	240	
38 J. B. Johnson 65 Sept.13, 1937 398 - 325 61 30 3 - 53 City of Tulia 160 Dec. 2, 1937 - - - 39 20 8 - 102 Union Hill School 80 Nov. 24, 1937 396 50 43 41 342 64 30 3 301 104 Salem School 80 Nov. 29, 1937 338 42 40 34 317 43 18 8 270 301 107 Vigo Park School 80 do. 287 44 33 13 244 47 25 8 245 110 T. W. Payne 166 do. 465 44 34 38 403 82 19 8 256 118 T. L. Parker 206 do. 352 47 36 40 342 43 14 8 267 125 W. C. Watson 70 Nov. 26, 1937 355 - - 287 54 28 8 - 287 131 Red Hill School 55 do. 353 52 32 38 305 57 24 3 260 205 Elkins School 48 do. 340 57 28 37 305 39 25 257 208 Love School 55 Dec. 2, 1937 - - - - - - - - 61 30 8 - - 216 Ben Finegold 179 Nov. 10, 1937 311 56 30 24 323 22 20 3 264 236 E. R. Lovern 232 Nov. 9, 1937 337 322 50 33 31 342 25 15 2 260 321 Miss Alice Harrel 220 Nov. 4, 1937 311 59 36 11 336 25 15 2 260 322 40 216 Aug. 10, 1937 314 42 43 18 287 29 31 2 281 324 40 40 40 40 40 40 40	21	Childress School	105	Dec. 2, 1937	290	55	23	22	244	54	14	a/	234	
53 City of Tulia 160 Dec. 2, 1937 39 20 a/	35	W. C. Hulsey	245	Nov. 23, 1937	317	52	33	25	305	39		<u>a</u> /	265	
102 Union Hill School 80 Nov. 24, 1937 396 50 43 41 342 64 30 a 301	3 8	J. B. Johnson	65	Sept.13, 1937	398	-	*	***	323	61	30	<u>a</u> /		
104 Salem School 80 Nev. 29, 1937 338 42 40 34 317 43 18 a 270 40 107 Vigo Park School 80 do. 287 44 33 19 244 47 25 a 245 Vigo Park School 80 do. 287 44 33 19 244 47 25 a 245 Vigo Park School 80 do. 465 44 34 38 403 82 19 a 256 18 T. L. Parker 206 do. 352 47 36 40 342 43 14 a 267 267 125 W. C. Watson 70 Nov. 26, 1937 355 287 54 28 a - 267 126 do. 52 do. 353 - 287 57 24 a 260 265 266 2	53	City of Tulia	160	Dec. 2, 1937	480		-	***		39	20	<u>a</u> /	_	
107 Vigo Park School 80 do. 287 44 33 19 244 47 25 a 245 1	102	Union Hill School	L 80	Nov. 24, 1937	396		43			64	30	<u>a</u> /	301	
110 T. W. Payne 166 do. 465 44 34 38 403 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 260 131 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 270 332 W. F. Kerr 209 June 5, 1937 406 66 50 15 323 68 48 a 371	104	Salem School		Nov. 29, 1937	338	42					18	<u>a</u> /	27 0 (اي
118 T. L. Parker 206 do. 352 47 36 40 342 43 14 a 267	107	Vigo Park School	80	do.	287	44		19	244	47	25	<u>a</u> /	245	Ĩ,
125 W. C. Watson 70 Nov. 26, 1937 355 - - - 287 54 28 a/ - 126 do. 52 do. 353 - - - 287 57 24 g/ - 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/ 298 324 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	110	T. W. Payne	166	do.	465	44	34	88	403	82	19	<u>a</u> /	256	
126 do. 52 do. 353 - - - 287 57 24 g/ - 131 Red Hill School 55 do. 353 52 32 38 305 57 24 g/ 260 205 Elkins School 48 do. 340 57 28 37 305 39 25 g/ 257 208 Love School 55 Dec. 2, 1937 - - - - - 61 30 g/ - 216 Ben Finegold 179 Nov. 10, 1937 311 56 30 24 323 22 20 g/ 264 236 E. R. Lovern 232 Nov. 9, 1937 337 32 46 38 348 29 16 g/ 269 320 Smith & Barnhart 200 Dec. 2, 1937 322 50 33 31 342 25 15 g/ 260 321 Miss Alice Harrel 220 Nov. 4, 1937 311 59 36 11 336 25 15 g/ 298 322 do. 216 Aug. 10, 1937 348	118	T. L. Parker	206	do.	352	47	36	40	342	43	14	<u>a</u> /	267	
131 Red Hill School 55 do. 353 52 32 38 305 57 24 a/ 260	125	W. C. Watson	70	Nov. 26, 1937	355	-	-	-	287	54	28	<u>a</u> /	me	
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	126	do.	52	do.	353	-	***		287	57	24	<u>a</u> /	-	
208 Love School 55 Dec. 2, 1937 - - - - - 61 30 a/ - 216 Ben Finegold 179 Nov. 10, 1937 311 56 30 24 323 22 20 3/ 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<	131	Red Hill School	55	do.	3 53	52	32	38	305	57	24	<u>a/</u>	260	
216 Ben Finegold 179 Nov. 10, 1937 311 56 30 24 323 22 20 3/ 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	205	Elkins School	48	do.	340	5 7	28	317	30 5	39	25	<u>a</u> /	257	
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	208	Love School	55	Dec. 2, 1937		-	_	-	_		30			
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	216	Ben Finegold	179	Nov. 10, 1937	311	56	30	24	323	22	20	<u>a</u> /	264	
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	236	E. R. Lovern	232	Nov. 9, 1937	337	32	46	38	348	29	16	<u>a</u> /	269	
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	320	Smith & Barnhart	200	Dec. 2, 1937	322	50	33	31	342	25	15		260	
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	321	Miss Alice Harrel	L 220	Nov. 4, 1937	311	59	36	11	336	25	15	<u>a</u> /	298	
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	322	do.	216	Aug: 10, 1937	314	42	43	18	287	29	31	<u>a</u> /	. 281	
332 W. F. Kerr 209 June 5, 1937 406 66 50 15 323 68 48 a/ 371	324	Houston School	70	Dec. 3, 1937	348	64	43	5	268	54	50	<u>a</u> /	336	
332 W. F. Kerr 209 June 5, 1937 406 66 50 15 323 68 48 a/ 371	327	W. H. Lowe	240	Nov. 10, 1937	328	54	33	28	323	29	25	<u>a</u> /	270	
	332	W. F. Kerr	209	June 5, 1937	406	66	50	15	323	6 8	48		371	
337 J. R. Barnhart 65 May 14, 1937 502 80 57 23 336 89 76 a/ 435	337	J. R. Barnhart	65	May 14, 1937	502	80	57	23	336	89	76	<u>a</u> /	435	
338 R. L. Edmonson 190 Nov. 3, 1937 379 69 35 27 336 43 40 <u>a/</u> 317	338	R. L. Edmonson	190	Nov. 3, 1937	379	69	35	27	336	43	40	<u>a</u> /	317	
353 Kress High School 65 Dec. 3, 1937 29 12 a/ -	-			Dec. 3, 1937	-	-	**	-	~	29	12	<u>a</u> /	***	

a/ Nitrate less than 20 parts per million.

Partial analyses of water from Swisher County--Continued

Results are in parts per million.

				are are in p		والمحاف الماكا فالما	(· · ·) & •					
		Depth	Date	. Total.	Cal-	Magne-	Sodium and	Bi car-	Sul-	Chlo-	Ni -	Total
Well	Owner	of	of	d1ssolved	cium	sium	Potassium	bonate			trate	hardness
No.		well	collection	solids	(Ca)	(Mg)	(Na ≠ K)	(ECO ₃)	(SO ₄)	(C1)	$(MO^{2\ell})$	as CaCOg
		(ft.)		(calculated)			(calculated)		-			(calculated)
359	_ **	220	Dec. 1, 1937	319	62	22	33	305	29	20	<u>,a/</u>	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	<u>a</u> /	331
406	McGuire School	100	do.	***	pro-	_	***			13	a/	Comments and Comme
408	J. A. Elis	202	Sept.24, 1937	255	56	22	12	244	25	20	<u>a</u> /	229
410	E. E. Cox	167	Sept.23, 1937	365	72	34	18	281	43	60	<u>a</u> /	321
414	M. C. Vinyard	200	do.	327	67	36	9	354	29	12	<u>a</u> /	318
429	C. Reed	198	do.	261	67	29	***	287	29	15	a/	288

a/ Nitrate less than 20 parts per million.

