### TEXAS BOARD OF WATER ENGINEERS

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## FREESTONE COUNTY, TEXAS

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

.

JUNE 1, 1937

REPRINTED MAY 1950

### FREESTONE COUNTY, TEXAS

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Introduction

by Samuel F. Turner Associate Hydraulic Engineer U. S. Geological Survey

The purpose of this survey was to obtain information concerning existing wells and springs and the quantity and quality of water they yield, and to put down test holes where additional information was needed.

This project was part of a statewide Works Progress Administration project known as a "Statewide Inventory of Water Wells," sponsored by the State Board of Water Engineers. The Division of Ground Water of the U. S. Geological Survey cooperated in the technical direction of the project and the Bureau of Industrial Chemistry of The University of Texas furnished laboratory space and equipment and supervised the chemical analyses.

The analyses were made by chemists employed on Works Progress Administration Project 6507-5112 at Austin, Texas, sponsored by the State Board of Weter Engineers. This release was typed and assembled by typists and draftsmen employed on this project.

The field work in Freestone County was started on January 17, 1936, and completed on June 1, 1936. This project was Project 2077 of District 5 of the Works Progress Administration, Palestine, Texas. H. L. Chenault, an engineer, was project superintendent. Mr. Chenault deserves credit for his work and for the many extra hours he spent on the project. The Palestine office of the Works Progress Administration made this work possible by their constant help and cooperation.

This release contains the well and spring records and well logs obtained by the project superintendent, logs of the test holes drilled by the W. P. A. labor, and the chemical analyses of water from privately owned wells and springs. Locations of all wells and springs listed are shown on the map in the back of the release.

The test wells were drilled by W. P. A. labor using a soil auger, drop auger, churn drill, and a sand bucket. Samples were collected at one foot intervals by the well driller in charge of the party. The project superintendent studied these samples and compiled the logs.

• • • • • • • • • • • • • • • • • • •	(All wel	rds of wells and ls are dug unless gs of W. P. A. te	s otherwise ind	icated	i in "Rep	marks"	columr	n.) .)
io.	Distance from Wortham	Owner	Driller	com- ple-	Topo- graphic situa- tion	of well	eter of well	point a- bove gro-
10	4 miles	J. Č.	* 	<b>1</b> 934	Creek	17	(1n.) 48	und(ft.)a
7 14a	soucheast 5 miles	Kirren Est. Jos. Nussbaum,	Jno. W. Hooser	1020	bottoms	3,329	;	e Andrease and a second
/ 14a	east	et al.	JIO. W. HOUSEI	1929		5,525		
0.	Distance from Kirvin	Owner	Driller	Date com- ple- ted	situa- tion	of well (ft.)	eter of well (in,)	Height of measuring point a- bove gro- und(ft,)a
23	l mile northwest	Shilo School			Gentle slope	42	30	<u>1</u> :
24	In Zirvin	D. R. Ailen	Jim Tear	1914	Level	24	1 48	2
25,	do.	J. C. Adams	Will Davis	1935	do.	31	48	2
27+	l mile south	Mrs. Barnhill		1920	do.	12	40	2
28	l <u>i</u> miles south	Mrs. Ruth Laney	Withers	1925	đo.	48	6	2
30.	lž miles west	Gilliam Poindexter		1927	Creek bottoms	13	18	1
33	23 miles west	Ranson Stallworth		1915		59	6	1.5
35	4 miles southwest	Ellis Campbell		1915	and the second se	31	48	2
36	32 miles southwest	J.C. McKinney	Frank Hall	1927	Gentle slope	37	48	Î Î
37	4 miles southwest	do.		1920		50	36	1
38	do.	W. T. West	McKinney	1895	Creek bottoms	37	60	0.5
40	52 miles southwest	do.		1915	Gentle slope	62	36	3
41	do.	Kaiser Kuyava	Shat too	1915		47	48	1 14
43	do.	Avery McKinney	Manns		do.	67	48	3
<u> </u>	62 miles southwest	W. K. Manning		1920	Gentle slope	29	48	3
45	d.o .	New Hope School	0-0	1920	do.	34	36	3
46	do.	Mrs. J. H. Collins	400 taj	1914	do.	45	36	2
48	do.	S. C. Smith	and into	1910	Creek	32	36	0
49	7 miles southwest	Mrs. Winn	Vernon Gilliam	<b>1</b> 934	bottoms Gentle slope	111	48	+

Measuring point was usually top of casing, top of pump base, or top of well curb.
 T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine;
 W, windmill; H, hand; number indicates horsepower.

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Records obtained by H. L. Chenault, Project Superintendent.

, Orren	Jater	Level	JI (Valu		n these wells and springs are in the table of analyse
		Date of measure-	and	Use of	Remarks
	measur		power	water	
	ing po		<u>b/</u>	<u>c/</u>	
	(feet)				
10	15.4	May 7. 1936	B,H	D, S	Brick curb; brick casing, top to bottom. Strong sup- ply. Mater reported soft.
14a			****		Drilled well. Oil test. See log.
	TT- FON	· · · · · · · · · · · · · · · · · · ·	<u></u>		
ο.		Level Date of	Thamp	Use	Remarks
•		measure-		of	remarks
	measur		power		
	ing po		b/	a/	
	(feet)		<u> </u>	=	
				ļ	
23	_	Mar. 9, 1936	B,H	D	Brick curb. Weak supply. Water reported hard.
24	23.7	do.	B,H	D:S	Wood curb; galvanized casing. Water reported hard.
25	21.7	do.	B,H	D,S	Brick curb. Water reported soft.
27	11.8	do.	B.H	D	Brick curb. weak supply. Water reported hard.
28	42,1	do.	B,H	D,S	Bored well. Wood curb and casing. Weak supply. water reported hard.
30	9•7	Mar. 23, 1936	B.H.	D	Brick curb. Reported strong supply of soft water.
33	57.6	do.	B.H	1	Bored well. No curb. Galvanized casing. Weak sup-
35	27.4	Mar. 10, 1936	None		Wood curb. Strong supply. Water reported soft.
36	31.5	do.	B,H	D.S	Brick curb. water reported soft.
37	39.6	do.	B,H	D,S	Tile curb. Water reported hard.
38	27.4	do.	C.W	D,S	Brick curb. Water reported hard.
40	58.1	do.	B,H	N	Wood curb; brick casing. Strong supply.
41	46.3	do.	B,H	D.S	Wood curb; brick casing. Water reported hard.
43	64.9	do.	B.H	D,S	Do•
44	26.5	Mar. 5,	B.H	D	Wood curb; brick casing. Weak supply. Water reported
45	33.6	1936 do.	B.H	D	hard. Brick curb. Weak supply. Water reported hard.
46			1		
	45.2	do.	B,H	D,S	Do.
48	18.3	do.	None	N	Brick curb. Reported strong supply of hard water.
49	36.0	do.	B.H	D.S	Wood curb; brick casing. Weak supply. Water reported hard.

e/ Water · level reported.

No.	Distance from Kirvin	Owner	Driller	com- ple-	Topo- graphic situa-	of well	eter of	Height of measuring point a-
	ł	, ,		ted	'tion	(ft.)	well (in.)	bove gro- und(ft.)a/
51	7 <sup>±</sup> / <sub>2</sub> miles southwest	Clay McKinney		1920	Level	32	36	3
52	do.	L. V. Kennedy	gudian	1930	Level	40	72	1
53	do.	L.P. Robinson		1916	do.	29	36	3
56	7 miles southwest	Will Barkouskie	and the second s	1900	Gentle slope	65	60	1.5
59	7 miles south	Clifford Boyd		1933	Hilltop	,	48	3
60	do.	Lizzie Cox	1 <b>1 11 11 11 11 11 11 11 11 11 11 11 11</b>	1850	Gentle	40	48	3
62	do.	Winfrey's Serv. Sta.	Cil Co.		Hilltop	347	6	0.5
63	6 miles south	Withrow Gin Co.		_	Level	20	36	3
64	do.	Cotton Gin School		1930	do.	22	48	2
65	do.	Alderman and Alderman	n man an a	1890	Gentle slope	36	48	3
67	do.	J. D. Moffett			Hilltop	72	48	1
d/ 67a	5 miles south	J. D. Woods	J. S. Cosden, Inc.	1927		4,226		
68	4 <u>5</u> miles south	Mrs. L. C. Treham	919-20-20-20-20-20-20-20-20-20-20-20-20-20-		do.	37	48	3
71	4 miles south	Mrs. Hugh Day		1915	do.	23	36	2
72	do.	Mrs. John Sweat		1915	Level	18	48	3
73	33 miles south	W. W. Day	Tear	1912		75	6	2
74	do.	J. M. Day	do.	1910	Gentle	84	, 8 ;	2
75	34 miles south	H. P. Milligan		1936	Hilltop	23	1 48	3
76	do.	R. E. Hays	and here	1931	Gentle slope	32	48	3
77	3 miles south	W. T. Moore		Salatina	do.	56	48	3
79	2 <u>7</u> miles south	do.	Owner	1934	Flat	41	48	3
80	do.	Shanks School		1915	Centle slope	53	48	3
82	1-1/3 mile southeast	es A. P. Carter		1890	do.	32	36	3
83	do.	L. C. Coleman		1915	Hilltop	26	48	3
8;†	2½ miles east	Tom Newman			Hill- side	31	6	2
86	34 miles southeast	Fred Carter		•••••	Hilltop	33	48	3
88	3章 miles southeast	Sterling Sims		1931	Hill- side	25	48	3

-5-Records of wells and springs in Freestone County--Continued

				-6-
	ere La como de la como	H.	L. Cher	nault, Project Superintendent.
No.	below measure-	and	Use of water <u>c</u> /	Remarks
51	24.0 Mar. 5, 1936	None	N	Concrete curb.
52	26.7 do.	C.W	D,S,I	Concrete curb and casing. Strong supply.
53 ,	28.81 do.	C.₩	D,S	Brick curb. Weak supply. Water reported hard.
56	53.5 do.	B,H	D,S	Brick curb. Strong supply. Water reported hard.
59	35.5 Feb. 20, 1936	B,H	D,S	Wood curb; brick casing.
60	33.9 do.		D.S	Brick curb. Reported old well but still has strong supply.
62	47 <u>e</u> /	C.W	D	Drilled well. 6 inch steel casing.
63	12.1 Mar. 3. 1936	B,H	D, Ind	Wood curb; brick casing. Strong supply. Supplies gin.
64	16.9 do.	B,H	D	Brick curb; reported strong supply.
65	30.4 do.	B.H	D	Wood curb; brick casing. Strong supply
67	63.1 do.	B,H	D, S	Brick curb. Strong supply. Water reported hard,
67a	anter adam			Drilled well. Oil test. See log.
68	27.9 Mar. 9, 1936	B,H	D	Word curb and casing. Strong supply. Water report- ed hard.
71 :	7.0 Mar. 7, 1936	B,H	D,S	Brick curb. Strong supply.
72	12.5 do.	B,H	D.S	Wood curb; brick casing. Weak supply. Water reported hard.
73	69.7 do.	B.H		Bored well. Wood casing. Water reported hard.
74	66.1 do.	B.H	D,S	Bored well. Calvanized casing; water reported hard.
75	17.5. do.	B,H	D,S	Brick curb.
76	30.6 Mar. 9, 1936	B.H	D,S	Wood curb; brick casing. Strong supply.
77	47.1 Mar. 7, 1936	B,H	D,S	Brick curb. Strong supply. Water reported hard.
79	27.5 do.	B,H	D,S	Do.
80	43.4 do.	B,H	D	Do.
82	8.3 Mar. 20. 1936	B,H	D,S	Wood curb; brick casing. Strong supply; water report- ed limy.
83	14.6, do.	B,H	D.S	Wood curb; log casing. Strong supply. Water report- ed hard.
84	25.6 do.	B,H	D	Bored well. Wood curb and casing.
86	32.3 do.	None	N	Wood curb; brick casing.
, 88	17.6 do.	B,H	D,S	Wood curb; brick casing. Strong supply.

Records of wells and springs in Freestone CountyContinued	Records	of	wells	and	springs	in	Freestone	CountyContinued.
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No• ,	Distance from Kirvin !	Owner	Driller	Date com- ple- ted	graphic situa- tion	of well (ft.)	eter of well (in.)	
90	8 miles southeast	John Wylie	çan sud		Gentle slope	29	48	2
92	8 <u>1</u> miles southeast	John Riley	L.L. Rudasill	1935		15	48	3
93	do.	Mrs. G. V. Hullum	Calloway	1917	do.	22	36	3
95'	9 miles southeast	John Riley	243 SW		do.	21	1	3
96	7 <sup>±</sup> miles southeast	Jim Short			Hilltop	65		1 3 i
100	8½ miles south	Tabernacle School	an a	1933		22	36	3
101	7 <u></u> 코 miles southeast	T. B. Connell	Owner	1933	Gentle slope	70	1 718	1
103	do.	H. J. Vibrock	H. J. Vibrock	1928	do.	15	48	3
104	8 miles southeast	G.C. Ward	41-2		Flat	86	36	
106.	8½ miles south	J. H. McAdams	George Withers	1934	Gentle slope	45	6	2.5
107	8 miles south	George Hoose	do.	1933		80	6	3
109	do.	H.J. Adamson	George Elliot	1935	Hilltop	43	30	1
111	6호 miles south	Magnolia Pipe Line Co.			Gentle slope	58	8	1
112	do.	do.		1915	Flat	150	6	
113	do.	Mrs. Hugh Day	6-6 M-1		do.	23	48	3
115	do.	C. J. Miner		1933	Gentle slope	42	6	2.5
116	7 miles south	Roy Simmons	Slaves	1830		35	48	5
117	do.	do.		1930	Hill- side	<u>7</u> ;7	30	1
118	do.	do.	Slaves	1860	Hilltop	56	48	0.5
150	9 miles south	B.N. Demus	and ind		Flat	45	13	2
122	do.	Jim Clements			do.	¥7	1,8	3
123	92 miles south	Richardson High School	Sam Vernon	1930	do.	26	48	3
124	do.	Lena Jates	Jim Palm	1935	do.	49	36,	3
126,	do. I	Mrs. Bradley			Gentle slope	22	24	3

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-5-H. L. Chenault, Project Superintendent.

					enaurt, Project Superintendent.
		Level			
No.	Depth	Date of	Pump	Use	Remarks
		measure-			
	measur	- ment	bower	water	
	ing po		_ъ/	c/	
	(feet)		<u> </u>	<i></i> /	
90		Feb. 19,	B,F		Log curb. Bad taste reported.
50			$B_{P}\Gamma$	D.S	Log curo. Bau caste reporteu.
		<u>1936</u>	ومعادية والمعالمية	أ	
92	9.9	do.	B.H	D,S	Brick curb. Strong supply.
<del></del>	 				
93	15.7	do.	B.H	D.S	Brick curb; plastered brick casing.
			1		
95	6.1	May 29.	B,H	D.S	Wood curb and casing. Strong supply. Water report-
		1936			ed hard.
96		Feb. 13,	B.E	D	Wood curb; plastered casing. Strong supply.
50		1936	باعرت ا	<u>ч</u>	Hong out of have sold a capture little south south the
100					
TOO	23.0	Mar. 31,	' R'H	Ð	Wood curb and casing. Weak supply.
<del>4 0</del>		1936	<u>.</u>		
101	60.0	e/	C.G.2	호 D S	Brick curb and casing. Weak supply. Water reported
		_	1		from quicksand.
103	9.7	Feb. 13,	B,H	D.S	Brick curb. Reported water formerly soft but later
-		1936			became hard.
104	60.3	do.	B,H	D,S	
-01					DITOR CALL. BOTONE SADDER'S
106	70 0	7			
100	7••2	Jan. 30,	B,H	D,S	Bored well. Wood curb and casing. Weak supply.
	L.,	1936			Water reported hard.
107	64.0	e/	B.H	D,S	Bored well. Wood curb and casing. Strong supply.
				Í	Reported sulphur taste.
109	28.3	Jan. 30,	B.E :	D,S	Brick curb. Strong supply. Hard rock reported at
		1936	t ł		32 feet.
111	41.4	Mar. 3,	C,A		Bored well. Concrete curb; galvanized casing. Strong
		1936		-	supply. 1 inch air line. Perforated casing at
112	38		C,A		Bored well. Galvanized casing, perforated bottom.
		<u>e/</u>	U.A.	D	
77.7	1-1-1-				at bottom. 1/2 inch air line.
113	12.0	Mar. 3.	B,H	N	Wood curb; brick casing. Strong supply.
-		1936			
115	35.4	do.	B,H	D	Bored well. Wood curb and casing. Strong supply.
116	25.6	Jan. 30,	C.G.1	5 D.S	Concrete curb. Weat supply. Estimated capacity 3
		1936	•••••	°	gallons a minute. Irrigates garden in summer.
117	36.7	do.	None	N	Brick curb. Water reported from red sand.
	1 001	u	TAOTTO	τνį	DITCK CULD. WE DEL LEDDIDECTION TOU SCARE.
118	FOR		~		
TTO	50.2	do.	C • W	D,S	Brick curb. Weak supply. Reported pumps dry in
					3 hours.
120	32.6	Mar. 6,	B,H	D,S	Good curb; rock casing. Water reported hard.
		1936		1	
122	43.8	do.	B,H	D	Wood curb; wood casing. Strong supply. Water
			;	-	reported hard.
123	25.3	do.	B,H		Wood curb; brick casing. Weak supply. Bad taste
	[ - J• J		11 8 11		reported.
124	76 7	++			Wood curb; brick casing. Hard water reported from
424	36.3	do.		D, S	
	<u> </u>	- <u> </u>	 	 	blue sand.
	· 00 E	do.	B,H,	D.CI	Wood curb; rock casing. Weak supply. Water report-
126	20.5	1	, 11 و ت	<b>0</b> ,00	ed hard.

No.	Distance	Owner	Driller	Date	Topo-	Depth	Diam-	Height of
	from	1		1			eter	measuring
	Streetman	é.		ple-	situa-	well	of	point a-
	<b>`</b>	i a		ted	tion	(ft.)	well	bove gro-
	yer and		I				(in.)	und(ft.)a/
d/203a	2 <del>]</del> miles south	E. E. Land	Bert Fields	1936		3.503	الورية (ياليان) 100 منية منية 1	
206	2 <u>3</u> miles east	Betty Davis	Joe Folk	1925	Flat	80	6	3•5
207	4 <sub>2</sub> miles	J.S. Adair	Preacher John-	1934		75	118	3
	east		son	<u>}</u>	side		<u></u>	
208	4를 miles east	do.	do.	<b>1</b> 926	do,	47		3
1/210a	east	Oliver Burleson	Neversuch Oil Co.	1932		3,733	1	dyng Yand
213	6 miles southeast	B. C. Whatley	W.J. Davis	1934	Gentle slope	60	36	2
215	6 <sup>±</sup> miles southeast	Guy Coleman	do.	1931	do.	35		-
216	7 miles southeast	Jno. L. Bonner	Jno. Baker	1933	Hill- side	74	8	3
217	do.	Mrs. M.C. Awalt	Howard Freeman	1924	Gentle slope	60	6	3.5
220	6 <sup>±</sup> niles southeast	Fred Nettles	Owner	1929	Hill- side	19	48	2.5
221	7 niles southeast	Paul Bonner	Paul Bonner	1932	Gentle slope	21	48	3
222	7출 miles southeast	T. R. Bonner	Vernon Gilliam		Flat	45	36	3
223	81 miles southeast	W. V. Steward	J. B. Lewis	1925	Hill- side	19	36	2
228	ll miles east	Marvin Watson	Joe Folk	1925	Flat	89	6	3
No.	Distance	Owner	Driller	Data	Topo-	Donth	Diom	Height of
	from	Ouner	DITTEI	com-	graphic	of		neasuring
	Fairfield			ple-	situa-	well		point a-
1				ted	tion	(ft.)		bove gro-
		1	ţ.			(1		und(ft.)a,
233	6 miles north	Douglas Weaver	ر مریح بی بر میں بی مریک میں	1910	Hill- side	45	36	
235	do.	M. H. Whitaker	J. B. Lewis	1922	do.	29	36	3
236	do.	do.			Creek bottoms	Sprin	g	
237	62 miles northwest	Jim Frazier	Pete Loder	1915	Hilltop	48	48	0
239	do.	Rich Salter	Geo. Vernon	1932	Hill-	25	718	3
240	do.	Percy McGeorge	Oil Co.	1928	Creek bottoms		10	، <u>مەرەبىمە بەرەبىمە بەرەبىمە</u> ھەمبەر قەرت
242	5 <sup>±</sup> miles northwest	W. S. Patrick			Hilltop	31	48	3

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a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
 b/ T, turbine. A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine;
 W, windmill; H, hand; number indicates horsepower.

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the second se	r Level			nault, Project Superintendent,
Thomas		1		₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩
	Date of measure-		Use of	Remarks
		4	1	
			, ,	
		<u> </u>	: 2/	4
			,	Drilled well. Cil test. See log.
76.8		B,H	D.S	Bored well. Wood curb and casing. Strong supply.
71.3	and the second sec	ਸ਼ ਸ	ד. ק	Water reported slightly hard. Wood curb: brick casing. Water reported too hard fo
1				washing.
ار •+++ ا	a0,	В,Н	D.S	Wood curb; brick casing. Weak supply. Water report ed hard.
	trat and	None	N	Drilled well. Oil test. See log.
56.4	Apr. 6, 1936	C. W	D,S	Brick curb and casing. Strong supply. Water report ed slightly hard and limy.
36.6	do.	В,Н	D	Wood curb; brick casing. Weak supply. Reported soft water.
74.1		B,H	D,S	Bored well. Galvanized casing. Weak supply. Hard turbid water reported.
55.6		B,H	D,S	Bored well. Wood curb and casing. Weak supply. Water reported hard.
17.5		, в,Н	D,S	Brick curb and casing. Strong supply. Soft water reported.
21.0	do.	B,H	D,S	Wood curb; brick casing. Weak supply; water report-
35•9	do.	в,Н	D,S	ed fairly soft. Brick curb and casing. Strong supply. Water report
18.5		B.H	D,S	ed hard. Wood curb; brick casing. Strong supply. Water
	Apr. 24,	B.H	D, S	reported hard. Bored well. Wood curb and casing. Strong supply.
		 		Water reported hard.
			. 1	
			Use	Remarks
			1	
		power	water	
	1	<u>b/</u>	<u>c</u> /	
41.0	Apr. 14,	B,H	D,S	Wood curb; brick casing. Strong supply. Water
30.0	do.	B,H	D.S	reported soft. Brick curb and casing. Weak supply.Water reported
Flows	do.	None	D, S	slightly hard. Wood curb. Wa ter reported from quicksand. Nearly
40.0		B.H	D, S	fails in drought. Brick curb and casing. Strong supply. Water report-
25.5	1936 do.	B,H	an 2-4	ed hard and limy. Wood curb; 10 feet log casing at top. Strong supply
Flows			D.S	Drilled well. Strong supply through ? inch choke-
	1936			Rock curb and casing. Strong supply. Sour water reported.
	ing po (feet 76.8 71.3 44.3 56.4 36.6 74.1 55.6 17.5 21.0 35.9 18.5 84.3 Water Depth below measur ing po (feet 41.0 30.0 Flows 25.5 Flows 27.8 irrig	ing point (feet) 76.8 Apr. 15, 1936 71.3 do. 44.3 do. 44.3 do. 56.4 Apr. 6, 1936 36.6 do. 74.1 Apr. 14, 1936 55.6 do. 17.5 Apr. 15, 1936 21.0 do. 35.9 do. 18.5 Apr. 14, 1936 84.3 Apr. 24, 1936 84.3 Apr. 24, 1936 84.3 Apr. 24, 1936 84.3 Apr. 24, 1936 84.3 Apr. 24, 1936 30.0 do. Flows do. 40.0 Apr. 3, 1936 25.5 do. Flows 27.8 Apr. 16, 1936	ing point (feet)  76.8 Apr. 15, E,H 1936 71.3 do. B,H 44.3 do. B,H 44.3 do. B,H None 56.4 Apr. 6, C,W 1936 36.6 do. B,H 74.1 Apr. 14, B,H 1936 55.6 do. B,H 17.5 Apr. 15, B,H 1936 21.0 do. B,H 18.5 Apr. 14, B,H 1936 84.3 Apr. 24, B,H 1936 84.3 Apr. 24, B,H 1936 84.3 Apr. 24, B,H 1936 84.3 Apr. 24, B,H 1936 9 do. B,H 1936 50.0 do. B,H 1936 9 do. B,H 1936 10 do. B,H 10 do.	ing point (feet) $b/$ $c/$ 76.8Apr. 15, $\bar{B}$ , HD.S1936 $\bar{P}$ , HD.S71.3do. $\bar{B}$ , HD.S44.3do. $\bar{B}$ , HD.S44.3do. $\bar{B}$ , HD.SNoneN56.4Apr. 6, $\bar{C}$ , WD.S193636.6do. $\bar{B}$ , HD74.1Apr. 14, $\bar{B}$ , HD.S19361936N55.6do. $\bar{B}$ , HD.S17.5Apr. 15, $\bar{B}$ , HD.S193621.0do. $\bar{B}$ , HD.S18.5Apr. 14, $\bar{B}$ , HD.S19361936Water Levelpower waterofpepth Date of below measure- measur-power watering point (feet) $D/$ $c/$ 41.0Apr. 14, $\bar{B}$ , HD.S193530.0do. $\bar{B}$ , HD.SFlowsdo.NoneD.S40.0Apr. 3, $\bar{B}$ , HD.S193625.5do. $\bar{B}$ , HD.S27.8Apr. 16, $\bar{B}$ , HD.S

e/ Water level reported.

	Reco	rds of wells and	springs in Free	stone	County	-Contir	nued.	
10•	Distance from Fairfield	Owner	Driller	com-			eter of well	Height of measuring point a- bove gro- und(ft.)a
244	5 miles	M. J. Tate	John Baker	1933	Gentle	<u>1</u> 41	(111.)	2
	northwest				slope			
245	do.	Leonard York	Roy Minchew		do.	29	; 36	3
246	do.	Colon Willard	Will Davis	1936	do.	28	36	3
248	43 miles northwest	S. A. Smith	Luther Thomp-	1933	Hilltop	14	36	3
249	41 miles northwest	M. J. & W. Tate	Leslie Tidwell	1933	Hill- side	42	36	3
250	43 miles north	Walter Freeman	Claypool	1830		38	36	3
253	45 miles north	Arthur Cameron	Owner	1929	Hilltop	17	48	3
254	42 miles north	W. E. Jones	Will Davis	1936	Gentle slope	93	48	3.5
255	5 miles north	Forrest Jones	Andry Baker	1933	do.	99	6	3
256	4호 miles north	Mrs. B. R. Speed	Robert Speed	1935	do.	46	36	f
257	43 miles nõrth	J. F. Aultman	Leslie Tidwell	1934	do.	41	36	3
259	5 miles north	Carl Williford	₽₩\$ ₩4		do.	41	6	2
260	6 miles north	Ben Willard	Leslie Tidwell	1935	Flat	24	36	3
261	do.	Tommie Willard	Owner	1930	do.	29	48	3
262	0 <sup>±</sup> miles north	T.R. Donaldson	Leslie Tidwell	1935	do.	20	36	2.5
264	And the state of t	Wallace McGuyer		1915	Gentle slope	32	6	3
266	5 <sup>±</sup> miles northeast	do.		1929	Hillton	29	36	2
267	do.	Henry Lee	Ernest Folk	1933	Hill-	39	6	3
268	do.	Mrs. H. A. Lee	do,	1932	side do.	56	6	3
269	42 miles northeast	Ord Keaton		1900	Hilltop	50	8	2
270	do.	do.		1910	Hill-	20	6	2
271	4 <u>년</u> miles northeast	E. J. Folk	Lee Mallard	1936	Gentle	<b>1</b> 4	48	2
273	<u>35</u> miles northeast	Jeff Owens	Joe Creel	1900	slope do.	15	24	3
274		Martha Day		1910	do.	80	- 6	2
276	3 miles northeast	Mrs. J.W. Day	Hugh Talley	1910	Flat	115	6	2
277	do.	Jimmie Day		1918	Gentle	15	48	
278	2 miles	Shadrick	Owner	1934	slope do.	581	36	2.5

-12-H. L. Chenault, Project Superintendent.

	·				enault, Project superintendent.
		c Level		1	·
No.		Date of		Use	Remarks
		measure-		of	,
	measu		power	1 1	1
	'ing po		<u>b</u> /	<u>_</u>	1
	(feet			ļ	; ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
244	38.7	Apr. 16,	B,H	D,S	Bored vell. Wood casing. Weak supply of good water
<u>Alle</u>		1936	·		reported.
245	, 28.0	Apr. 3,	B,H	D,S	Brick curb and casing. Strong supply. Water report-
246	24.8	1936			ed hard. Wood curb; brick casing. Water reported hard.
240	1 24.0	do.	B,H	D	(wood curb; brick casing. Water reported nard.
248	10.3	do.	B,H	D.S	wood curb; brick casing. Strong supply. Formerly
<b>L</b>	ار دفت ا			210	weak supply reported.
249	42.0	do.	B,H	D.S	Brick curb and casing. Strong supply. Water report-
	1				ed soft.
250	35.9	Apr. 14,	B,H	D.S	Brick curb installed Mar. 1936; brick casing.
-		1936	1		Strong supply.
253	12.9	Apr. 13,	B,H	D,S	Brick curb and casing. Strong supply. Water report-
		1936	1		ed hard.
254	87.4	do.	B,H	D,S	Wood curb; brick casing. Water reported from blue
	; <del>;</del>				packed sand.
255	96.0	do.	B,H	D,S	Bored well. Wood curb and casing. Water reported
					from quicksand. Weak supply.
256	42.0	do .	B,H	D,S	Brick curb and casing. Water reported from white
01-7					sand.
257	36.1	do.	B,H	D,S	Brick curb and casing. Hard water reported from
250	77 0	do.	70 77		white sand. Bored well. Wood curb and casing. Strong supply.
259	33•9	a <b>v.</b>	B.H	D,S	Water reported hard.
260		June 20,	B,H	D.S	Brick curb and casing. Strong supply. Turbid.
200	ار•رے : ا	1936	11,911	1010	Dirow out o cure construct. Derout aubort fur orde
261	20.4		B,H	D.S	Wood curb and casing. Strong supply. Quality report-
			1.1.1.1	7010	ed variable.
262	19.6	do.	B,H	D.S	Brick curb and casing. Reported strong supply of
			·		soft water.
264	31.5	June 15.	B.H	D.S	Bored well. Wood curb and casing. Water reported
	1     	1936			from quicksand. Weak supply.
266	21.1	Apr. 23.	C <b>.</b> ₩	D,S	Brick curb and casing. Strong supply.
		1936			
267	36.1	do.	B,H	D,S	Bored well. Wood curb and casing. Water reported
860	1000				from quicksand.
268	48.0	do.	B,H	D,S	Bored well. Wood curb and casing. Strong supply.
269		June 15,			Bored well. Galvanized casing. Strong supply.
209	20.0	1936	B,H	D,S	Bored Well. Garvanized Casing. Strong supply.
270	14.3	do.	B.H	D,S	Bored well. Wood curb and casing.
210		u0.	ъ.п	و، ط	Bored werr. Wood curb and casing.
271	10.7	Apr. 23,	B.H	D.S	Wood curb and casing. Strong supply.
- 1 -		1936		2,0	Hond own and with for one pathout
273	13.9	do.	B,H	D,S	Wood curb; rock casing.
274	79.9	Apr. 13,	B,H	D.S	Bored well, Galvanized curb and casing. Weak
		1936			supply. Water reported hard and turbid.
276	108.0	June 20,	B,H	D,S	Bored well. Galvanized casing. Weak supply. Water
		1936			reported too hard for washing.
277	13.3	Apr. 13.	B,H	D,P	Wood curb; brick casing. Reported strong supply of
	ا <del>بار دست<sub>ا</sub> بردستا</del>	1936		1	hard, limy water.
278	55.0	June 20,	B,H	D,S	Brick curb and casing. Strong supply. Water report-
	,	1936		1	ed hard.

			springs in Free					
No.	Distance from	Owner	Driller	· · · ·	Topo- graphic	Depth of	Diam- eter	Height of measuring
	Fairfield		ι. ]		situa-		of	point a-
		1			tion		well	bove gro-
			, 1 [	, and the second		1	(in.)	-
279	$2\frac{1}{4}$ miles north	W. M. Jones	Leslie Tidwell	1936	Hilltop	37	36	3
280	3 miles north	J. L. Shanks	ین کار برای برای برای این این این این این این این این این ا	1928	d.o .	20	36	2
282	$3\frac{1}{4}$ miles north	do.	John Baker	1935	do.	85	6	3.5
d/282a		Ernest Beauchamp	Peyton Bros.	1936		4,403	4	میں ہیں ہے جاری ہے جاری ہے۔ میں بینے ا
284	34 miles northyest	R. N. Cannon	John Baker		Gentle slope	62	6	1
285	22 miles	J. L. Miller	J. C. IVY	1930	do.	32	36	2
	northwest	í		ا 				1
286	11 miles northwest	J. E. Irvin &	Coy Guest	1930	Hill- side	32	36	3
287	2 miles	J. E. Bishop Jim Vaughan	<del>1 </del>	1933		21	48	2.5
	northwest		•	/ /	slope		1	
288	l <u>z</u> miles northwest	Vell McAdams	Owner	1933	do.	24	60	3
289	do.	Matt Henderson	Vernon Gilliam	1933	do.	24	48	5
291	14 miles northwest	John Blakely	Owner	1925	do.	37	36	
292	l mile ' north	John Norris	Leslie Tidwell	1934	Creek bank	18	36	3
293	<u>≩</u> mile north	J. R. Sessions	Henry Lee	1934	Gentle slope	22	48	2
296	32 miles west	Johnny ceorge	Odell George	1929	Hilltop	44	36	3
298	4 miles southwest	Lake Watson			Centle slope	55	6	2
299	35 miles southwest	Fred Jett	Owner	1934	Hill- side	8	48	2
300	3克 miles southwest	L. R. Boyd	L. R. Boyd	1925	Hilltop	45	36	1
302	24 miles southwest	Billie Watson	and the second s	1929	do,	25	6	1
304	2 miles southwest	Mary John	Archie John	1933	Gentle slope	11	48	2
305	l miles southwest	Mat McGee	Owner	1928	Hill- side	19	36	2
306	l miles south	J. R. B. Cain			d0.	29	48	3
307	z mile west	R. P. Slatter	Ben Black	1936	Gentle	41	6	2
309	do.	Newt Robison	bud the	1925	slope do.	40	6	2
310	do.	Walter Ely		1920	do.	41	6	3
311	do.	J. H. Eubanks	Jim Swinman	1915	do.	47	36	<u> </u>
<u>a/312</u>	City of	City of		1935	Flat	506	6	1 1
314	Fairfield	Fairfield Mrs Misildine	1	7000	Gentle	21	36	1 
≁ سار	east	m+ >• M+STTUTHE		1200	Gentie slope	<u> </u>	ەر 1	2.5

-14-

ult, Project Superintendent.	ult,	Project	superintendent.
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			ਸ.	T. Ch	-14- enault, Project Superintendent.
	Wate	r Level	•	110 011	
No.		Date of	Pumo	Use	Remarks
		measure-		of	1
1	measu		power		
í	ing p		b/	c/	
ļ	(feet			<u> </u>	
279	28.5	June 20,	B.H.	D.S	Brick curb and casing. Strong supply. Water report-
-12		1936	1		ed hard.
280,	17.2	Apr. 13. 1936	B,H	D,S	Brick curb and casing. Strong supply.
282	82.4		B.H	S	Bored well. Wood curb and casing. Weak supply.
282a		nan dat	None	N	Water reported unfit for washing or cooking. Drilled well. Oil test. See log.
			;		
284	53•9	Apr. 3, 1936	B,H	D,S	Bored well. Wood curb and casing. Water reported hard.
285	32.0	do.	B.H	D, S	Concrete curb and casing.
286	34.2	do.	B,H	D	Wood curb; brick casing. Water reported from quick-
287	18.1	do.	B,H	D, S	sand. Strong supply. Wood curb; brick casing.
288	21.8	do.	B.H.	D,S	Brick curb and casing.
289	16.1	do.			1
			B,H	D	Wood curb; brick casing, top to bottom. Strong supply.
291	35•9	do.	B,H	D	Brick curb and casing. Weak supply.
292	16.5	do.	B,H		Wood curb; brick casing. Water reported hard.
293	19.9	do.	C.H	D	Wood curb; brick casing.
296	43•9	Mar. 19, 1936	B,H	D,S	Wood curb; 5 feet brick casing at top. Water report- ed fairly soft.
298		May 29. 1936	B.H	D,S	Bored well. Wood curb and casing. Water reported hard.
299	2.5	do.	B,H	D,S	Brick curb and casing. Strong supply.
300	35	<u>e/</u>	B, E, ∄	D,S	Concrete curb; brick casing. Water reported good until pump was installed.
302	22.6	Mar. 26,	B,H	D,S	Bored well. Wood curb and casing. Water reported
304	6.8	1936 do.	B,H	D,S	from quicksand. Wood curb; steel casing. Water reported from quick-
305	16.0	do .	B.H	D.S	sand. Wood curb and casing.
306	30.7	do.		D,S	Galvanized curb; 10 feet galvanized casing at top.
307	32.3	do.	B,H	6-10-10-10-10-10-10-10-10-10-10-10-10-10-	Weak supply. Water reported hard. Bored well. Wood curb and casing. Water reported
309	34.0	do.	B,H	D,S	hard. Bored well. Wood curb and casing. Strong supply.
310	38.1	do.	B,H	D	Bored well. Wood curb and casing. Water reported
-					hard.
311	33•9	do.	B,H.	D	Wood curb; brick casing. Strong supply. Water reported hard.
312	140	<u>e/</u>	T,E,2	5 P	Drilled well. See log.
314	18.1	June 15, 1936	B,H	S	Galvanized curb and casing. Strong supply. Water reported hard.
	· · · · · · · · · · · · · · · · · · ·	<u></u>			

No.	Distance	Owner	Driller	Doto	Tono.	Tionth	ມາວາ	Height of
110+	from	Owner.	DLITTEL		graphic		eter	measuring
	Fairfield	1			situa-		of	point a-
	10,000,000	•				(ft.)	4	bove gro-
		1	,			(•)	(in.)	,
315	l <u>i</u> miles	Johny Castle	Sam Moore	1926	Gentle	21	36	3
	east	·		7.001	slope :		، <del>ا</del>	1
316	$l_{2}^{\pm}$ miles east	J. C. Ritter	Owner	1924	do.	15	36	2
317	12 miles east	J. F. Day	Leslie Tidwell	1935		20	36	3
318	2 miles	Marion Willard	Wes Hatcher	1932	Gentle	30	36	1.5
	' northeast		1   	المراجع المراجع	slope		 	L
319	l <sup>1</sup> / <sub>2</sub> miles northeast	Tom Lindley	do.	1935	do.	28	36	2
322	25 miles	F. M. Kent	Giles Kent	1935	do.	20	24	2
324	northeast	John Metzger	Teo Tella	1056	TT1 7 7 + and	74	6	2
	northeast	Joun Weezger	Joe Folk	-	Hillton	•		
325	4 <sup>±</sup> / <sub>2</sub> miles	Keeney & Hall	John Baker	1914	Hill-	19	36	2
	northeast				side		, 	
No.	Distance	0 wner	Dr iller	Date,	ן דסקס <b></b>	Depth	Diam-	Height of
	from				graphic		eter	measuring
	Young	1		ple-	situa-	well	of	point a-
				ted	tion	(ft.)	well	ibove gro-
	• • •						(in.)	und(ft.)a/
400	9 miles northwest	J. & G. V.			Rolling	28	36	2.6
401	10 miles		I. Nealy	1007	Creek	05	48	
	north	UTILIS TALLY	T. Meary	1301	bottoms	95	40	3
402	9늘 miles	Chas. Reese	Ed. Daniel	1928	Hilly	79	48	3.2
	north		······	-				-
403	9 miles north	E. E. Nettles	Bill Newton	1914	Hilltop	63	10	2.3
404	do.	L. Granville	Henry Smith	1900	Hilly	35	36	2.8
405	6 <u>1</u> miles	Scott Ward			Bottom	23	42	2.2
104	north				land	-		
406	5 miles north	C. H. & E. M. Watson		1915	Gentle	15	36	0.5
408	42 miles	H. C. Granberry	Joe Foll:	1924	slope do.	63	, 6	2
	northwest		000 TOTT			ر 0		C.
409	4 miles northwest	Mack Cockrell	Ernest Folk	1936	Flat	68	6	2.5
413	li miles	L. E. Spencer	Joe Folk	1020	Gentle,	30	6	
	northrest	_		-929	slope	 		1.5
414	la miles northwest	W. T. Cole	do.	1929	do.	105	6	4
416	22 miles				Draw	10	36	2.6
	northeast	<b>v</b> - 0	1	1	Janua (	~···	)(	2.0
417	72 miles	Stanolind	McMasters-	1936	River	370	4-	
	northeast	Oil Co.	Pomeroy	-	bottoms		, <b>^</b>	1

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
 b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine;
 W, windmill; H, hand; number indicates horsepower.

-16-H. L. Chenault. Project Superintendent.

-			Н.	L. Ch	enault, Project Superintendent.
		r Level			ŗ
No.		Date of		Use	Remarks
	below	measure-	and	of	1
	measu	- ment	power	water	1
	ing po		́ъ/	c/	
i	(feet)		; <i>–</i> /	2	
	•		÷		
315	18.0	June 15,	B,H	D, S	Brick curb and casing. Strong supply. Water report-
•		1936	·	İ	ed soft.
316	13.4	do.	B.H	D,S	Calvanized curb and casing. Weak supply. Water
			i }	1	reported slightly hard.
317	21.1	do.	B,H	D.S	Brick curb and casing. Strong supply. Water report-
	;		· · · · ·	1	ed slightly hard.
318	17.0	do.	C.W	D.S	
-					ed hard and salty.
319	26 8	June 20,	B,H	Da	Brick curb and casing. Strong supply. Water report-
ולדע	LO.O.	1936	Dau	י מית	
700				<u> </u>	ed slightly hard.
322	-{•f;	Apr. 23.	B,H	J.S	Wood curb and casing. Never fails.
		1936		<u> </u>	
324	72.0	May 1,	B,H	D.S	Bored well. Wood curb and casing. Water reported
		1936			from black quicksand.
325	17.1	do.	B,H	D.S.	Wood curb; brick casing. Reported originally soft,
	i			i ,	but now hard.
		r Level	_		- 1
No.		Date of		Use	Remarks
1		measure-		of	
1	measur		power	water	
	ing po	oint	b/	c/	
	(feet)	) ,	-		
400	26.6	Sept. 21	, B,H	D, SI	Wood curb; stone casing, top to bottom. Never
400	20.0		, D.H	D: 2	
101		1396			fails. Reported water becomes turbid at times.
401	67.1	do.	B,H	D,S	Brick curb and casing. Never fails. Water reported
******					slightly hard.
402	47.9	do.	B.H	D, S	Wood curb; brick casing. Permanent supply.
403	56.5	do.	B.H.	D,S	Wooden curb and casing. Weak supply. Water report-
1	,	,	1	1	ed hard.
404,	33.5	Sept. 23	BH	D.S	Brick curb and casing. Reported nearly fails in
1	2242	1936	;		summer.
405	19 8	Sept. 21	ם ל	D.S	Word curb and casing. Strong supply. Reported sup-
	⊍∙زىد			D, D	plies 14 barrels a day to community.
406		1936	++++++	╾╤╌┽	
400	14.7		B,H	D,S	Brick curb and casing. Weak supply.
		1936	4		
408	60.6	do.	B,H	D, S	Bored well. Wood curb and casing. Reported weak
<u>.</u>					supply of soft water.
409	64.9	do.	B,H	-	Bored well. Wood curb and casing. Strong supply.
	-				
413	27.1	do.	B.H		Bored well. Wood curb and casing. Strong supply of
<sub>ا</sub> ر ـ .	- <b>( * 4</b>		Den		soft water reported.
414			+		
<b>+</b> ±4 <sub>}</sub>	94.1	do.	B.H	D.S	Bored well. Wood curb and casing. Strong supply.
1			<u> </u>		Water reported slightly hard.
416 <sub>i</sub>	<b>6.</b> 6	Sept. 23	B,H	S	Wood curb and casing. Located near edge of wide
1		1936	1		river bottoms.
417	Flows	Sept. 22	None	Indj	Drilled well. 4th inch iron casing. Flow due to gas
	i				pressure. Supplies boiler. See log.
c/ I	, irria	ation: In	nd, in	dustri	al; P, public; D, domestic; S, stock; N, not used.
					r analysis.

d/ No water sample collected for analysis. e/ Water level reported.

<del>man, is not incom</del>	Reco	rds of wells and	-17- springs in Free	stone	County-	-Contin	nued.	
No.	Distance from	Owner	Driller		Topo- graphic			Height of
4	Young		1		situa-	well	of	boint a-
1			1	+	tion	(ft.)	well	bove gro-
				1			(in.)	und(ft.)a
d/417a	$7\frac{1}{2}$ miles	Hetty Berk	Amerada	1935		4,025	_~	
-	northeast		Pet. Corp.					 
418	In Young	J. H. Granberry	Joe Fol:	1929	Gentle	47	6	1.5
100			· · · · · · · · · · · · · · · · · · ·		slope		L	, 
419	do.	Boyd Henderson	Ernest Jolk	1933	Flat	41	6	3
421	3 mile	Mrs. May Casey	Roy Minchew	1071	Gentle	48	36	2
12-4	southwest		Roy MINGHEW	1924 1	slope	-10	50	L.
424	2 miles	Brady Gunter	Ernest Folk	1935		23	6	3
	southwest		HTHORY FORM					-
425	13 miles	J.S. Newman	Ted Owens	1880	Hilltop	55	48	3
	south			l 1	-			1
426	l <sup>1</sup> / <sub>2</sub> miles	John McCann	Bob Bean	1915	do.	65	48	3
·····	south							<u></u>
436	4 miles	F.E. Hill	Eugene Day	1915	Hill-	23	36	3
437	southeast do.	do.			side do.	Sprin	°	
ונד		αυ.		Contra more	00 e	Shrant	5	
		, 						۵۰۰۰۵ د بین در بر کینی در بین در بر برای دارد. ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰ - ۲۰۰۰
No.	Distance	0.000			<b>M</b>	Those the	The am	Height of
MA•	from	Owner	Driller		Topo- graphic			measuring
	Butler				situa-	vell		point a-
	Dagtor		ł		tion	f 1		bove gro-
				UCU j	01011	(100)		und (ft.)a
506	75 miles	F. E. Hill	Howard Mainus	1077	Centle	31	36	2
000	northwest		nowaru Marnus,	-200	slope	يدر	)0	Ľ.
517	25 miles	Burleson & Red	Owners	1930	do,	19	36	2
	west					-		
518	2늘 miles	do.	do.	1929	đo.	20	36	3
	west			1				
521	$2\frac{1}{4}$ miles	Joe Parker	Alfred Manning		do.	19	36	3
	west						1.0	
522	do.	Mrs. J. C.		1880	Hilltop	25	48	4
524	27 miles	Robison Mally Woods	Will Jones	1905	Gentle	28	48	3
924	southwest		MITT Joues	1902	slope	20	40	)
525	3克 miles	Shilo School	do.	1915	do.	15	36	<u>+</u>
	southwest			, ,		رــــــــــــــــــــــــــــــــــــ	٥ر	
527	33 miles	Fanny Malone	Ed. Malone	1915	Hilltop	16	24	2
	southwest		1		-			
528	4 miles	do.	and the second se	1900	do.	22	36	3
	southwest							
530	35 miles	T. H. Lee	Owner	1910	Hill-	14	24	3
+	southwest				side	┉┉┉┉┉		+
535	22 miles southeast	W. C. Gorman	do.		do.	15	72	2
537	3 miles	B. B. Kimbell	do.	זמוב	Hilltop	70	48	2
	south	Te Te VINCAT			11+ TT (OD	$( \lor$	-+0	<u> </u>
538	23 miles	Robert Mims	Jake Carter	1905	Hilltop	22	48	
	south						,0	
540	34 miles	Myrtle Webb	Harrison	1933	do.	34	48	24
	south							
541		J. W. Murdock		1935	Flat	10	36	4
1	sõuth	,		-			-	

-18-

·····		H.	L. Ch	enault, Project Superintendent.
37.0	Water Level	•		- · ·
No.			Use	Pemarks
	below measure-		of	
	measur- ment			
	ing point (feet)	<u>b</u> /	<u>c/</u>	
417a				
41 (8		None	N	Drilled well. Oil test. See log.
418	39.4 Apr. 23.	B,H	7 6	Bored well. Wood curb and casing. Strong supply.
110	1936	D) II	2,D	Reported good quality of soft water.
419	39.0, do.	B,H	D,S	
	<i>yy</i> •0 40•	77911	0,0	Burea werr, wood carb, wood casing, mover iarras
421	44.9, June 15,	B,H	D,S	Brick curb and casing. Strong supply. Water report-
	1936	2,11	2,0	ed hard.
424	20.91 do.	BH	D, S	
				Water reported slightly hard.
425	49.8, do.	B,H	D, S	Concrete curb and casing. Strong supply.
426	51.6 do.	B,H	D,S	Wood curb; log casing. Never fails. Reported soft
1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-				water.
436	14.6 Apr. 27.	B,H	D,S	Galvanized curb and casing. Strong supply.
	1936			
437	Flows do.	None	D, S	
				two openings in white sand.
	1			
No.	Depth Date of		Use	Remarks
	below measure	and	of	
i	measur- ment	- , t	water	
	ing point	<u>b/</u>	<u>c/</u>	
	(feet)			
506	30.9 May 12,	B.H	D,S	Galvanized curb and casing. Never fails.
<del>77 4</del> 4	1936			
517	16.5 June 9,	С,Е,	- D	Brick curb and casing. Located 20 yards west of
518	1936			well number 518. Reported alum taste. Never fails.
210	17.7 do.	B,H	D	Brick curb and casing. Strong supply. Reported
521	10.7 do.	B,H	D,S	good quality of water. Brick curb and casing. Never fails. Reported soft
		D.11	<b>د</b> , <i>ط</i>	water.
522	13.7 do.	B,H	D,S	
			210	reported.
524	7.7 do.	B,H	D, S	Wood curb; rock casing. Good supply. Reported bad
-				taste in rainy weather.
525	16.9 do.	B,H	D	Wood curb; rock casing, top to bottom. Weak supply.
				Reported slightly hard.
527	7.8 do.	B,H	D,S	Wood curb; rock casing. Never fails.
<u></u>			_	
528	17.9 do.	B,H	D,S	Do.
530	11.4 June 19,	B,H	D, S	
<u> </u>	1936			Reported soft water.
535	10.5 do.	B,H	D.S	G <u>4</u> , -
537	61.0 do.	B,H	D,S	Reported soft water. Wood curb. Never fails. Reported soft water.
וככ	01.0 UU.	р, н   	C + L	Woor only Wevel Tatts. Webolred Solf Marels
538	17.8 do.	B,H	D,S	Wood curb. Strong supply. Water reported slightly
	-, wo.	11 11	CIGH	hard.
540	36.8 do.	B,H	D,S	Wood curb. Weak supply. Water reported hard.
- 1			<b></b> , 0	n
541	11.4 do.	B.H	D,S	Wood curb and casing. Weak supply. Water reported
<u> </u>	1			slightly hard.
	برجي فيبيد المتعطية وتتبيبته والمتكرة البراج والمتكرية المتعادية والمتعادية	and the second se	the state of the s	

	Pecor	ds of wells and s	-19-	atone	County-	-Contir	nied.	
No.	Distance from Eutler	Owner	Driller	Date	Topo- graphic situa- tion	Depth of well (ft.)	Diam- eter of well	Height of measuring point a- bove gro- und(ft.)a/
543	4 miles southeast	M. Danel			Hill- side	Sprine		
544	4 miles	Mrs. Keeling	Rob Dunbar	1906		26	48	3
546	southeast 42 miles	E. Guess	Owner	1900	Gentle	36	48	2
547	southeast $4\frac{3}{4}$ miles	Jesse Lee	Jesse Lee	1929	do.	26	30	3
548	southeast 5 miles	Mrs. E. E.		1920	do.	11	36	1
a/553a	southeast 7 miles	Haddon H. R. Dietz	Humble Oil	1933		5,590	6	
	east		& Ref. Co.		• •		1 	
No•	Distance from Dew	Owner	Driller	com-	graphic situa-		eter of	Height of measuring point a- bove gro- und(ft.)a/
<u>d/600a</u>	6 miles northwest	Wm. R. Boyd, Jr.	J. L.	1937		4,507		
601	$\frac{61}{2}$ miles nor th	William Jones	Collins & Co Edwin Jones			24	48	3
602	7 miles north	J. R. B. Cain			Hill- side	15	48	3.5
603	do.	do.	Leslie Tidwel	1933	Centle	25	36	3
604	do.	do.	B. P. Cain	1901	slope do.	27	36	3
606	do.	F. E. Hill	Will Davis	1935	đo.	40	36	3
607	do.	do.			ão.	39	6	3
609	6 miles	Riley Middleton	Jimmy Gordor	1 1931	do.	61	36	3
610	north 8 miles	W. A. Parker	Roy Minchew	1934	do.	68	36	2.5
611	north $7\frac{1}{3}$ miles	Bryant Daniels	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1933	do.	85	6	4
613	north do.	Grady Ivy	Vernon Gillia	n <b>1</b> 934	i	25	36	3
614	8 miles	Clenon Mullin	Owner	1934	side do.	33	36	2
616	north 10 <sup>1</sup> / <sub>2</sub> miles	Will Creel	Will Creel	1935	do.	22		2
618	northeast 9 miles	N. L. Richardson	Geo. Creel	1931	do.	30	36	2
622	northeast 8 miles	G. J. Weaver	Alford	1910	Hill-	19	72	3
624	northeast 7 <sup>±</sup> miles	Joe McAdams	Owner		side Gentle			3
625	northeast	Mt. Zion School		,	slope Flat	39.		<u>u</u>
	~~*			-019		، <del>ر</del> ر	0ر	· T

					<b>-</b> 20-
			ਸ.	T. Ch	enault, Project Superintendent.
	Wate	r Level	±1 •	<u> </u>	
No.	Depth	Date of	Pump	Use	Remarks
	below	measure-	and	of	
,	measu	r- ment		water	
,	ing po		<u>b</u> /	<u>c</u> /	
-	(feet)				
543	Flow s	June 19. 1936	None	D	Yood box curb. Estimated flow; one gallon a minute from one opening in quicksand.
544	25.8	do.	B.H	D,S	Wood curb. Strong supply. Reported soft water.
				1,0	
546	35.2	do.	B.H	D.S	Wood curb. Weak supply. Reported soft water.
547	23.2	do.	B,H	7,5	Wood curb; brick casing. Never fils. Reported
					soft water.
548	7.2	do.	None	N	wood curb and casing. Strong supply. Reported soft water.
553a			None	N	Drilled well. Oil test. See log.
1	1	t	1,0110	11	Diriton worr. Our cost. Doo ro2.
	Water	- Level			
No.		Date of	Pump	Use	Remarks
i i		measure-		of	Torrestrep
i	measu		power	water	
ł	ing po		b/	c/	
!	(feet)	)	_		
600 <del>a</del>		Tras Santa	None	N	Drilled well. Cil test. See log.
601	214.9	Mar. 26,	B,H	I,S	Wood curb; 8 feet log casing at top. Reported soft
		1936 .			water.
602	10.1	do.	B.H	D,S	Wood curb; 8 feet galvanized casing at top.
603	22.5	do .	B,H	D,S	Wood curb; brick casing. Strong supply. Reported
-					soft water.
604	21.9	do.	B,H'	D.S	Wood curb; brick casing, top to bottom. Reported
		·		۱ اور میرون میرون م	hard water.
606	39.0	Apr. 25, 1936	B,H	D,S	Wood curb; brick casing; weak supply. Reported soft water.
607	33.4		B.H	D.S	Bored well. Wood curb; wood casing. Weak supply.
					Reported soft water.
609	52,1	do.	B,H	S	Brick curb; brick casing, top to bottom. Strong
610	611 11	Apr. 7.	B,H		supply. Reported hard water. Brick curb; brick casing. Strong supply. Reported
	U-7.0 **	1936	<b>D:1</b> ,	D.S	hard water.
611	81.9	do.	B,H	D.SI	Bored well. Wood curb; wood casing. Weak supply.
					Reported hard water.
613	15.1	do.	C.W	D,S	Brick curb and casing. Reported water from quick-
7. 7 7. 44	<del></del>	, 			sand. Strong supply.
614	33.2	do.	B.H	D, S	Wood curb; 10 feet wood casing at top. Yeak supply.
616	10.0	Apr. 27,	B,H		Reported soft water. Wood curb. Reported soft water. Never fails.
	±J•J	1936	D, F	D,S	Mood curp. Webotted Solf Maret. Menet 19778.
518	26.8		B,H		Wood curb; wood casing, top to bottom. Reported
i		1		í	soft water. Never fails.

010	20+0	uo.	B, H	8000 8000	wood curb; wood casing, top to bottom. Reported
j.					soft water. Never fails.
622	3.5	Apr. 7.	B,HI	D,S	wood curb and casing. Reported hard water. Never
		1936			fails. Reported flows in wet weather.
624	31.2	do.	B,H	******	Bored well. Wood curb and casing. Weak supply.
					Reported hard water.
625	26.6	do.	B,H,		Wood_ curb; rock casing, top to bottom. Never fails.
			s F		Reported soft water.
		1			

	Roco	rds of wells and	springs in Free	stone	County-	-Contir	ued.	
No.	Distance from Dew	Owner	D <sub>r</sub> iller	com- ple- ted	graphic situa- tion	of well (ft.)	eter of well	Height of measuring point a- bove gro- und(ft.)a
626	7 <sup>±</sup> miles northeast	A. F. McAdams	Ben Black	1924	Flat	48	6	2
627	do.	L. V. Jones	Owner	1931	do.	25	36	3
629	do.	J. F. Emmons	J. F. Emmons	1931	Hill- side	22	48	<u> </u>
630	do.	J. S. Ivy	Vernon Gillian	1934		64	36	3
631	7 <sup>责</sup> miles north	Leonard Emmons	Joe Folk	1925	Gentle slope	49	6	1
633	55 miles north	W. L. Glazener	John Baker	1920		79	6	1
635	do.	Sim Chavers		1920	Hill- side	65	48	2
637	5 miles north	đo.	Owner	1923		14	36	3
638	do.	W. R. Boyd, Jr.	Jerry Philpot	; 1933	do.	72	6	3
640	$\frac{3\frac{1}{4}}{10}$ miles	T. C. Gardner	Ben Mims	1935	Hilltop	27	30	3
641	4 miles north	Wm. McIlveen	Bob Black	1933	Gentle slope	45	6	1.5
642	4 miles north	do.	do.	1929		41	6	1.5
644	2 <u>늘</u> miles , north	Edith Johnson	Owner	1927	Hill- side	7	36	2
d/644a	2 miles north	Minyard White	Sun Cil Co.	1933		4,762	10	
647	In Dew	W. J. Lanc, Jr.	R. C. Black	1930	Flat	64	6	0
648	đo,	Dew School	do.	1931	do.	48	12	0
649	do.	A. H. White	L. D. Hartley	1932	Hilltop	18	36	2
650	dc.	W. C. Clark	Jeff Ham	1895	do.	13	36	3
651	· z mile south	J. A. Harrison	Robert Black	1930	Hill- side	45	6	3
653	l mile northeast	W. F. Swinburne		*** ***	Gentle slope	47	36	0.5
d/654	, la miles , northeast	Robt. Moody	9-19 gant		Branch	Spring		
655	12 miles northeast	A. Bradshaw	Owner	1929	Hill- side	45	36	3
662	7 miles northeast	Grady Weaver	Caro See.	1890		33	48	3
663	do.	G. J. Weaver		1900	do.	31		3

a/ Measuring point was usually top of casing, top of pump base, or top of well curb.
 b/ T, turbine; A, air-lift; C, cylinder; B, bucket; E, electric; G, gasoline engine;
 W, windmill; H, hand; number indicates horsepower.

-22-H. L. Chenault, Project Superintendent.

er Level h Date of w measure- w measure- ment point t) 7 June 9, 1936 6 do. 1 Apr. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936 9 Apr. 26,	and power <u>b</u> / B,H B,H None C,W B,H B,H B,H B,H	of water  D,S  D,S  D,S  D,S  D,S  D,S	Remarks Bored well. Wood curb and casing. Strong supply. Reported hard water. Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing. top to bottom. Weak suppl; Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom.
w measure- point t) 7 June 9, 1936 6 do. 1 Apr. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	and power <u>b</u> / B,H B,H None C,W B,H B,H B,H B,H	of water  D,S  D,S  D,S  D,S  D,S  D,S	Bored well. Wood curb and casing. Strong supply. Reported hard water. Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing, top to bottom. Weak suppl: Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom.
wir-       ment         point       1         7       June 9,         1936       0.         1       Apr. 7,         1936       0.         1       Apr. 7,         1936       10.         3       Mar. 27,         1936       3         3       Mar. 27,         1936       3         40.       0.         9       do.         6       Mar. 12,         1936       1936	power b/ B,H B,H None C,W B,H B,H B,H B,H	water P.S D.S D.S D.S D.S D.S D.S D.S D	Bored well. Wood curb and casing. Strong supply. Reported hard water. Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing. top to bottom. Weak supply Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
point t) 7 June 9, 1936 6 do. 1 Apr. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	b/ B,H B,H None C,W B,H B,H B,H B,H	e/ D, S D, S D, S D, S D, S D, S D, S	Bored well. Wood curb and casing. Strong supply. Reported hard water. Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing. top to bottom. Weak supply Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
t) 7 June 9, 1936 6 do. 1 Apr. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	B,H B,H None C,W B,H B,H B,H B,H	D, S D, S N D, S D, S D, S D, S D, S	Reported hard water. Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing. top to bottom. Weak supply Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
7 June 9, 1936 6 do. 1 Apr. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	B,H None C,W B,H B,H B,H B,H	D,S N D,S D,S D,S D,S D,S	Reported hard water. Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing. top to bottom. Weak supply Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1936 6 do. 1 Apr. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	B,H None C,W B,H B,H B,H B,H	D,S N D,S D,S D,S D,S D,S	Reported hard water. Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing. top to bottom. Weak supply Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
6 do. 1 Aor. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	None C.W B,H B,H B,H B,H	N D, S D, S D, S D, S D, S D, S	Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing, top to bottom. Weak supply Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
6 do. 1 Aor. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	None C.W B,H B,H B,H B,H	N D, S D, S D, S D, S D, S D, S	Brick curb and casing. Strong supply. Reported hard water. Brick curb; brick casing, top to bottom. Weak suppl Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1 Apr. 7, 1936 6 do. 4 do. 3 Mar. 27, 1936 3 do. 9 do. 6 Mar. 12, 1936	None C.W B,H B,H B,H B,H	N D, S D, S D, S D, S D, S D, S	hard water. Brick curb; brick casing, top to bottom. Weak suppl Reported hard water. Brick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1936 6 do. 4 do. 3 Mar. 27. 1936 3 do. 9 do. 6 Mar. 12. 1936	C.W B,H B,H B,H B,H	D, S D, S D, S D, S D, S D, S	Brick curb; brick casing, top to bottom. Weak suppl Reported hard water. Brick curb; brick casing, top to bottom. Reported soft vater. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1936 6 do. 4 do. 3 Mar. 27. 1936 3 do. 9 do. 6 Mar. 12. 1936	C.W B,H B,H B,H B,H	D, S D, S D, S D, S D, S D, S	Reported hard water. Erick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
6 do. 4 do. 3 Mar. 27. 1936 3 do. 9 do. 6 Mar. 12. 1936	B,H B,H B,H B,H B,H	D, S D, S D, S D, S D, S	Erick curb; brick casing, top to bottom. Reported soft water. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. (Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
4 do. 3 Mar. 27. 1936 3 do. 9 do. 6 Mar. 12. 1936	B,H B,H B,H B,H B,H	D, S D, S D, S D, S D, S	soft vater. Never fails. Water reported from sand. Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
3 Mar. 27. 1936 3 do. 9 do. 6 Mar. 12, 1936	B,H B,H B,H B,H	D,S D,S D,S D,S	Bored well. Wood curb; wood casing, top to bottom. Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom.   Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
3 Mar. 27. 1936 3 do. 9 do. 6 Mar. 12, 1936	B,H B,H B,H B,H	D,S D,S D,S D,S	Strong supply. Reported soft water. Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1936 3 do. 9 do. 6 Mar. 12, 1936	B,H B,H B,H	D, S D, S D, S	Bored well. Wood curb; wood casing, top to bottom. Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1936 3 do. 9 do. 6 Mar. 12, 1936	B,H B,H B,H	D, S D, S D, S	Never fails. Reported hard water. Brick curb; plastered casing, top to bottom. Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1936 3 do. 9 do. 6 Mar. 12, 1936	В,Н В,Н	D,S	Brick curb; plastered casing, top to bottom.   Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
1936 3 do. 9 do. 6 Mar. 12, 1936	В,Н В,Н	D,S	Corrugated iron curb; 36 inch corrugated iron casing top to bottom. Weak supply. Reported soft water.
3 do. 9 do. 6 Mar. 12, 1936	B,H	D,S	top to bottom. Weak supply. Reported soft water.
9 do. 6 Mar. 12, 1936	B,H	D,S	top to bottom. Weak supply. Reported soft water.
6 Mar. 12, 1936		D, S	
6 Mar. 12, 1936			
6 Mar. 12, 1936			TOTOT NOTTE HOOR COTO HOOR CODATTE ADD AD AD AD AD AD AD AD AD
1936	B.H		Strong supply. Reported hard water.
1936			Wood curb; brick casing, top to bottom. Weak supply
		210	"een outo, offor oussing, sob to containe "term soff-"
	B.H	DC	Bored well. Wood curb; wood casing, top to bottom.
	D H H		Strong supply. Reported hard water.
1 Apr. 25,	B,H	7 0	Bored well. Wood curb; wood casing, top to bottom.
	в,п	D*2	
and the second			Weak supply. Reported hard water.
2 ao.	в.н	$D_{t}S$	Wood curb; wood casing, top to bottom. Never fails.
i 			Reported soft water.
	None	N	Drilled well. Cil test. See log.
			┆ ╎ ݤ
	C.G.2	D	Bored well. Wood curg; wood casing, top to bottom.
			Never fails. Reported hard water.
0 do. ,	C, G, 2	P	Bored well. Clay tile curb; 12 inch clay tile casing
1		:	top to bottom. Strong supply. Reported hard water.
21 do.	B,H	D,S	Brick curb; brick casing, top to bottom. weak suppl
			Reported soft water.
61.June 9	B.H	D.S	Brick curb; brick casing, top to bottom, Never fails
		272	Reported soft water.
	ער	De	
	. דר≰כר ו ן	U,O	Never fails. Reported hard water.
	A 117		
	C . W	$D_{t}S$	
			supply. Reported slightly hard water.
S, do. !	None	D,S	Estimated flow; 1 gallon a minute from one opening
		I	in white water sand.
31 do. 1	B,H	D,S	Brick curb; brick casing, top to bottom. Reported
	!	ļ	soft water. Water reported from quicksand. Never
4 May 6,	B,H	D, S	Wood curb; 4 feet brick casing at top. Report-   fail
	1	•••	ed water hard last four years. Water reported from
	B.H	D.S	Wood curb. Strong supply. red packed sand. Never fai
		270	Reported soft water.
	1936 0 do. 2 do. 6 June 9. 1936 9 Mar. 27. 1936 6 Apr. 25. 1936 's do. 4 May 6. 1936 1 do.	2     do.     B,H        None       0     Mar. 27, C.G.2       1936       0     do.       2     do.       2     do.       4     May 6, B,H       1936       3     do.       4     May 6, B,H       1936       1     do.	2       do.       B,H       D,S          None       N         0       Mar. 27, C.G.2       D         1936       0       do.       C.G.2       P         2       do.       B,H       D,S         6       June 9, B,H       D,S         1936       9       Mar. 27, B,H       D,S         3       do.       None       D,S         3       do.       B,H       D,S         4       May 6, B,H       D,S         1936       9,H       D,S

c/ 1, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used. d/ No water sample collected for analysis. e/ Water level reported.

-23-Records of wells and springs in Freestone County--Continued.

	Reco	rds of wells and	springs in Free	stone	County-	-Contir	nued.	
No.	Distance from Dew	, Owner	Driller	com-	Topo- graphic situa- tion	of well	eter of well	Height of measuring point a- bove gro-
665	43 miles	W. N. Evans	Ben Black	1910	Hill-	70	(in.) 8	und(ft.)a/ 2
667		Wood George	d.o.	1930	do.	26	6	2
668	east do.	do.	Green	1936	do.	31	36	; 3
670	3 miles east	A. C. Anderson	Ben Black	1910	Filltop	35	36	3
675	43 miles	R. E. Petty	Charlie	1920	Hill-	17	48	3
676	east 5 miles	John Adkins	Luckett Ben Black	1933	side do.	20	6	2
677	east 55 miles	A. B. Adkins	do.	1931	do.	65	6	2
679		O. W. Killiam			do.	28	60	2
681	east 9 miles	Abe Jones	Owner	1927	do.	13	36	3
682	east 8½ miles	do.	Abe Jones	1926	Hilltop	<b>2</b> 2	36	2
683	east do.	Dan Bryant	Dan Bryant	1934	Hill-	45	36	3
685	do.	Jim Jones	Jim Jones		side Gentle	34	36	2.5
687	8 <sup>±</sup> miles	Mary Collins	Dan Humpton	1935	slope	10	36	1.5
688	east 8 miles	George Moton	Owner	1929	Gentle	20	60	3
691	east 52 miles	W. M. Peyton	And two	1932	slope Flat	12	36	1.5
692	east 6 miles	A. weaver	J. B. Word		Gentle	19		2
693	_do.	do.		1895	slope do.	17	36	3•5
<u>d/699a</u>	9½ miles east	Franz Thiele	Roxana Pet Co.	1927	do.	3.955	15	2
No.	Distance from Teague	Cwner	Driller	com- ple-	Topo- graphic situa- tion	of well	eter of well	Height of measuring point a- bove gro- und(ft.)a/
d/804a	In Teague	City of Teague	Layne-Texas Co	1910		952	9-5/8	
806	l <u>‡</u> miles eas t	Jim Roper	Owens	1905	Gentle slope	37	36	3
808	2 miles north	B. P. Compton			Hill- side	22	30	2
810	3 <sup>1</sup> / <sub>2</sub> miles northeast	Lake Tatson	Floyd Rankin	1932	Hilltop	17	36	3
811	35 miles northeast	G. W. Burleson	A.J.Johns	1930	do.	32	36	2

-24-

H.	_L.	Chenault,	Project	Superintendent.
-				
Pump	Use	Э		Remarks

فاسرا فسكم متكريبهم	Toto	r Level	<u>H</u> .	L. Ch	enault, Project Superintendent.
No.	And the second second second second	Date of	Dum	Use	Remarks
100.		measure-		-	Hemarks
		1		water	4
	measu: ing po				
	~ ~		<u>b</u> /	<u>c/</u>	
	(feet				
665	66.1	June 9,	B,H	D.S	'Bored well. Galvanized curb; 8 inch galvanized
		,1936		i	casing, top to bottom. Weak supply. Reported hard
667	16.2	do.	B,H	D,S	Bored well. Wood curb; wood casing, top to water.
,		·			bottom. Strong supply. Reported hard water.
668	16.1	do.	B.H.	D,S	wood curb; no casing. Never fails. Reported soft
000			1) 6 11	1,0	water.
670	15.0	do.	B,H		Wood curb; wood casing, top to bottom. Strong
010	±9•0	·	D, H	D: 5	
<u></u>					supply. Reported soft water.
675	5.4	do. ;	B,H	D,S	Wood curb; 1 foot wood casing at top. Strong supply.
-		I I			Reported soft water.
676	14.6	do .	B,H	D, S	Bored well. Sheet iron curb; wood casing, top to
t		. 1		1	bottom. Never fails. Reported soft water.
677	60.5	do.	B,H	,	Bored well. Wood curb; wood casing, top to bottom.
. 1	- 2			1	Weak supply. Reported soft water.
679	27.8	do.	B,H	D,S	Wood curb; 2 feet wood casing at top. Weak supply.
915	L [ • 0		Diu	פית ו	
681	8.1				Reported soft water.
DOT	0.L	do.	B,H	D.S	Wood curb; wood casing, top to bottom. Strong sup-
		· · · · · · · · · · · · · · · · · · ·		1	ply. Reported soft water.
682	15.6	do.	B,H	D	Wood curb; wood casing, top to bottom. Strong sup-
					ply. Reported soft water.
683	46.4	do.	B,H	D,S	Do
				1	
685	34.7	do.	B,H	D.S	Wood curb; 10 feet brick casing at top. Weak supply.
· <b>/</b> ,	5.41			2400	Reported soft water.
687	10.0	do.	B,H	D.S	Wood curb: 10 feet log casing at top. Weak supply.
001	TOPO	40.	D, n	D+D	
688	7 5				Reported hard water. Wood curb; 10 feet wood casing at top. Never fails.
000	7•5	do.	B,H	D,S	
201		70			Reported soft water.
691		Apr. 30,	B,H		Wood curb; wood casing, top to bottom. Strong supply.
1		1936			Reported soft water.
692	18.2	do.	B,H	D,S	Wood curb. Strong supply. Reported hard water.
<b>.</b>				1	
693	12.1	do.	B,H	D,S	Wood curb; wood casing, top to bottom. Never fails.
•					Reported soft water.
699a			None	N	Drilled well, Cil test. See log.
	Water				
No•		Date of		Use	Remarks
	below	measure-	and	of	
t	measur		power	water	
	ing po		ъ/	c/	
i	(feet)		~	-	
804a		, 		ļ	
o∪4a					Drilled water well. See log.
1					
806	35.0	Feb. 3.	B,H	D.S	Wood curb; wood casing. Strong supply. Reported
+		1936		1	hard water.
808	21.6	May 29,	B,H	D.S	Brick curb; brick casing, top to bottom. Never fails.
		1936		<u>ر</u> ,ر	Reported hard water.
810	16.2	do.	B.H		Brick curb; brick casing, top to bottom. Strong
	-0.C	1 uv. 1	DII		
811	70 5				supply. Reported soft water.
·∕ ∓ म	30.5	do.	B,H		Brick curb; brick casing, top to bottom. Weak supply.
				;	Reported soft water.
1		1			
		1			

<b>T</b> O.	Distance	Owner	Driller	neta	Topo-	Den+h	Diam_	Height of
1	from	, Owner	DITTEL		graphic	of		measuring
1	Teague	*			situa-	well	of	point a-
			1	ted	tion	(ft.)		bove gro- und(ft.)a
813	33 miles northeast	C. D. Lindsey	***	-	Hilltop	29	6	2
814	$4\frac{1}{4}$ miles northeast	Pyburn School	C. D. Lindsey	1935	Hill- side	26	36	3
815	4 <u>늘</u> miles northeast		*** *** ! !		Flat	21	6	
817	4 <del>1</del> miles east	D. W. Terry		1915	đo.	51		1
820	2 <u>3</u> miles east	P. R. French	Owner		Hilltop		24	
821	do.	do,	Black	1931		46	6	
824	2 <sup>1</sup> / <sub>4</sub> miles southeast 13 miles		; ; 	1915		26	36	
827 828	south 2 miles	Webb	· · · · · · · · · · · · · · · · · · ·	1930	Flat	10	48	1
829	south 25 miles	P. M. Winfrey Frank Baggett	Owner	1925	slope	19	36 48	2
830	south do.	Marshall Harris		1930	do.	21 18	36	3
833	41 miles		Owner	1925				
	south 3 miles	J. M. Miller	J. M. Miller	1928	Hilltop			3
835 ¦ 836	south do.	W. C. Miller Ed. Martin	W. C. Miller. Ed. Martin	1935 1920	slope	12 16	48 36	3 
837	3₹ miles		John Dean	-	do.	18	-	
839	south 35 niles	Mrs. D. W.	Ed Stevens	1933 1915	Hilltop	55		-
841	southeast do.	Curry do.	Ha Stovens		do.	50		3
842	3 miles	Mrs. Ada	Ed Stevens		Hill-	35		
	southeast 3 miles		Owner ;		side Centle	18	-	-
847	southeast 3½ miles	Wood Goolsby	·····		slope Draw	Sprin		
849	esst 45 miles	N. S. Curry		<u>ן מול</u>	Hill-	<u>5</u> pi 11		
850	east 5 miles	do.		1915	side	38		
851	east do.	do,	Tom Calloway		Hilltop			3
852	6 miles	Tillie McDonald		1900		29	6	1
853	east do.	Minnie McDonald	Calloway	1900			1	2
854	do.	do.		1910		24		2
858	7 miles	Smith Johnson	Owner	1935	Gentle	37	6	3

-26-H. L. Chenault. Project Superintendent

-			Н.	L. Ch	enault, Project Superintendent.
_		r Level			·
No.		Date of		Use	Remarks
		measure-		of	
	measur		power	,	
	ing po		<u>b</u> /	' <u>c/</u>	1
	(feet)	)			<i>i</i>
813	, 26.5	Jan. 31,	B,H	D,S	Bored well, Wood curb; wood casing, top to bottom.
-		1936			Strong supply. Reported slightly hard water.
814	11.1	May 29,	B.H	D	Brick curb; brick casing, top to bottom. Strong
	1	1936	20:22		supply. Reported hard water.
815	12.8	Jan. 31,	B,H	D, S	Bored well. Galvanized curb; 6 inch galvanized cas-
		1936	T) \$ 11		ing, top to bottom. Reported hard water.
817	105	Mar. 13,	B,H	D.S	Bored well. Wood curb; wood casing, top to bottom.
011	10+2	1936	<b>D9</b> II	D:0	Pored Merr. Mood edit, Mood easily, 105 10 content
820	10.4	d0.	B,H	D,S	DO•
020	10.4	uU.	D, R	D+2	цо <sub>•</sub>
201					
821	16.9	do.	B,H	D.S	Bored well. Wood casing, top to bottom. Strong sup-
7-1					ply. Reported soft water.
824	18.8	May 15,	C, W	D,S	Wood curb; 25 feet galvanized casing at top. Strong
	¦ 	1936		Ļ	supply. Water reported from quicksand.
827	8.4	do.	B,H	D, S	wood curb; wood casing, top to bottom. Never fails.
					Reported soft water.
828	9.8	do.	B,H	D.S	Brick curb; plastered casing, top to bottom. Strong
					supply. Reported soft water.
829	14.4	do.		D.S	Wood curb; brick casing, top to bottom. Never fails.
	1				Reported hard, salty water.
830	15.5	d.o.,	B,H	D,S	Wood curb; wood casing, top to bottom. Strong supply.
-		;		~	Reported hard water.
833	41.4	do.	B,H	D,S	Bored well. Mood curb; wood casing, top to bottom.
			201	1 275	Strong supply. Reported hard water.
835	12.4	do.	B,H	D.S	Brick curb; brick casing, top to bottom. Never fails.
עני		uu.	D, L	0:0	Reported soft water.
836	15.2	do.	B,H	D,S	Brick curb; brick casing, top to bottom, Reported
0)0	19.6	u <b>v.</b>	Diu	C +U	originally cistern till flooded by stream. Never fail
077			T TT		Bored well. Wood curb; wood casing, top to bottom.
837		Feb. 10,	B.H	D,S	
070	-7/ -7	1936			Reported sulphur taste.
839		May 15,	C <b>.</b> ₩	D.S	Brick curb; 15 feet brick casing at top. Strong sup-
<u> </u>		1936			ply. Reported soft water.
841	40•7.	do.	B,H	D, S	Bored well. Wood curb; wood casing, top to bottom.
				1	Strong supply. Reported soft mater.
<u>8:+5</u>	31.2	đo.	C,W	D,S	Brick curb; brick casing, top to bottom. Strong sup-
-					ply. Reported soft water.
844	16.9	do.	B,H	D,S	Brick curb; brick casing, top to bottom. Never fails.
	1				Reported soft water.
847	4.0	Feb. 5.	None		No curb; barrel casing. Reported limited capacity
		1936			in present condition.
849	17.7	Mar. 13,	B,H	D.S	Brick curb; brick casing, top to bottom.
		1936			
850	20.0		B,H	D.S	Brick curb; brick casing, top to bottom. Reported
-	1 1	1			hard water.
851	39.5	Mar. 12.	B,H	D.S	Brick curb; brickcasing, top to bottom.
		1936			
852	23.6	do. 1	B,H	D.S	Bored well. Wood curb; wood casing, top to bottom.
	ال ال		11 <b>(</b> CL	כוע	Reported fairly soft water.
857	30.4	do.			Brick curb; brick casing, top to bottom. Strong sup-
853	50.4	uu.	B,H	D.S	
gen-				┝╾╤╌╌ <u>╴</u> ┝	ply. Reported soft water.
854	21.0	do.	B,H	D,S	Bored well. Tood curb; wood casing, top to bottom.
727	·				Reported soft water.
858		lar, 24,	B.H	D.S.	Bored well. Wood curb; wood casing, top to bottom.
••••••••		1936			Reported hard water.
	-		···· -1		

894	do.	do.	Mike Beasley	1929	do.	45	6	1
893	l <u>a</u> miles east	L. E. Baty	Owner	1933	Gentle slope	16	36	2.5
888	6 miles east	Gilliam Poindexter	Ben Black	1933	do.	71	6	2.5
887	5 miles east	Alice Jerden	Cotters Baty	1920			•	
885	4 <del>1</del> miles east	F. Peterson	Oscar Johnson		side	7	36	-
884	$\frac{3\frac{1}{2}}{2}$ miles northeast	Henry Daniels			Gentle slope	40		
882	do.	Bowen		1930	Hilltop	37	6	2
881	do.	H. P. Norman		1915	do.	16	48	0.5
879	do.	W. J. Shelly	Jim Lambert	1929		32	6	3
878	2 miles northeast	A. W. Thompson		1 ân9	Hill- side	18	6	2
877 ;	± mile northeast	John Epps		1925	Creek bottoms	28	6	1.5
875	l mile west	Mrs. Bert Wren	do.	1925	do.,	22	48	3
874,	do.	W. T. Beene	do.	1925	do.	35	48	
873		J.B. Sandifer	Ed. Stevens	1925	slope do.	28	48	2
872	l <u>‡</u> miles	J. A. Allison	ار این	*****	Gentle	33		3
	Freestone			ple- ted		well (ft.)		point a- bove gro-
No.	Distance from	Owner .	Driller	Date com-	Topo- graphic			Height of
867	52 miles south	do.		1905	Hill- side	31	48	3
866	5 miles south	W. M. Partin		1925	Hilltop	16	18	3
1/865a	42 miles southeast	R. A. Tacker	Emerald Oil Co			3,068	13	
865	42 miles southeast	B. L. Seely	gant ang	1915	Hilltop	59	6	3
863	44 miles southeast	Ben Biggs	4	<mark> </mark>	Hill- side	25	6	2
861	7 <sup>±</sup> miles southeast	Bob Moore	Jerry Philpott	1930	do.	38	6	<u>, 4</u>
860	7 miles southeast	Bill Moore			do.	35	36	3
859	7 miles east	Oscar Johnson	#10-1	1920	Gentle slope	60	6	2
10.	Distance from Teague	Ovmer	Driller	com- ple-	Topo- graphic situa- tion	of well	eter of well	Height of measuring 'point a- bove gro- 'und(ft.)g

H.	L.	Chenault,	Project	superintendent.

	Toto	r Level	<u>H</u> •	L. Che	enault, Project Superintendent.
No.		Date of	Dum	Tise	Remarks
		measure-		of	The market and the second s
4	measu			water	
				· •	
	ing po		⊥ <u>Þ</u> /	, <u>c</u> /	
1	(feet)		1	I 	
859	40.5	Mar. 24,	B,H	D.S	Bored well. Wood casing, top to bottom. Reported
		1936			hard water. Never fails.
860	30.3		B.H	D,S	Wood curb; 20 feet brick casing at top. Reported
	<i>J</i> •• <i>J</i>			2,0	hard water.
861	34.2	do.	B,H	D.S	Bored well. Wood curb and casing, top to bottom.
	J™•C		,п	0,0	Reported hard water.
967	10 11	3.5			Bored well. Wood curb and casing, top to bottom.
863	12.4	Mar. 11,	B,H	D.S	
		1936		ļ	Strong supply. Reported soft water.
865	39•7	do.	B,H		Bored well. Wood curb and casing, top to bottom.
ا المحمد المحمد الم			İ		Strong supply. Reported hard water.
865a	-		None	N	Drilled well. Oil test. See log.
866	17.6	May 15,	3,H	D,S	Brick curb; brick casing, top to bottom. Reported
		1936			originally cistern until flooded by stream. Weak sup-
867	28.8		B.H	D,S	Brick curb; 10 feet brick casing at top. ply.
			DIU	ن ولد	Strong supply. Reported soft water.
	: 				Sololis and is well and a solo wasters
	.vate:	r Level			
No.	Depth	Date of	Pump	Use	Remarks
	below	measure-	and	of	1
	measu	r- ment	power	water	1
	ing po	,	_ b/	c/	
	(feet		<i>-</i> ′	<i>–</i> ′	
872	28.6	Feb. 24,	B,H	<b>Grad 1940</b>	Brick curb; 10 feet brick casing at top. Never fails.
		1936			Reported water from soapstone.
873	25.3	May 15,	B,H	D,S	Brick curb; brick casing, top to bottom. Strong sup-
		1936			ply. Reported soft water.
874	30.8	do.	C,W	D,S	Do.
ł					
875	16.2	d.o.	B,H	D,S	Do.
8771	9_4	Mar. 11,	C,H	D.S	Bored well. Wood curb; wood casing, top to bottom.
- 1		1936	0,11	210	Strong supply. Reported hard water.
878	12.2		B,H		Bored well. Wood curb; wood casing, top to bottom.
010	10.02	do.	в, п	D,S	
d				····	Reported hard water.
8791	27•9	do.	B,H	D, S	Do•
					1
881,	10.6	do.	C,H	D,S	Brick curb; brick casing, top to bottom. Reported
					hard water.
882	33.0	d.o.	B,H	D.S	Bored well. Wood curb; wood casing, top to bottom.
- 1	1	1			Reported soft water.
884	72.6	Mar. 24,	B,H	D.S	Bored well. Wood curb; wood casing, top to bottom,
	• عر	1936 I	17#11	CO #CL	Reported hard water.
885	·····				Wood curb; rock casing, top to bottom. Strong supply.
000	2•1	Mar. 25.	B,H	D,S	
		1936		the second second second second second second second second second second second second second second second s	Nearly faills in summer. Reported soft water.
887	9•4	Mar. 24.	B.H	D,S	Rock curb and casing, top to bottom. Never fails.
i i		1936		the second second second second second second second second second second second second second second second se	Reported soft water.
828	62.9	Mar. 25.	B,H	D,S	Bored well. Wood curb; wood casing. Reported hard
0001	-	1936			water.
000			B,H	D	Brick curb; brick casing, top to bottom. Never fails
	14.7		والمناد الواجب	-	
893	14.7				Reported soft water.
893		1936	ਾ ਹ	י ת	Reported soft water.
	14.7 28.7		B.H	D,S	Reported soft water. Bored well. Wood curb and casing, top to bottom. Strong supply. Reported hard water.

-29--Records of wells and springs in Freestone County--Continued.

No.	Distance from Freestone	Owner	Driller	∞ m	Topo- graphic situa- tion		eter of well	Height of measuring point a- bove gro- und(ft.)a/
897	1호 miles southwest	D. F. Farrell		1932	Gentle slope	16	36	3
898	2 miles southwest	Doyle Newsome	Owner	1916	do.	33	36	2
901	3克 miles south	Alvis Harris	9.900		Hill- side	22	60	3

a/ Measuring point was susually top of casing, top of pump base, or top of well curb.
 b/ T. turbine; A. air-lift; C. cylinder; B. bucket; E. electric; G. gasoline engine;
 W. windmill; H. hand; number indicates horsepower.

-30-H. L. Chenault, Project Superintendent.

No.	Depth	oint	- 1	Use of water <u>c</u> /	Remarks .
897	11.8	Feb. 24, 1936	B,H	D,S	Brick curb and casing.
898	23	do.	C,G,3	D,S	Brick curb and casing, top to bottom. Water report- ed from sand rock. Strong supply.
901	21.6	do.	B,H	D.S	Brick curb and casing, top to bottom. Strong supply. Reported soft water.

c/ I, irrigation; Ind, industrial; P, public; D, domestic; S, stock; N, not used. d/ No water sample collected for analysis. e/ water level reported.

# -31-Table of Drillers' Logs, Freestone County, Texas

1	hickness (feet)	Depth (feet)	Th	ickness (feet)	Depth (feet)
	(1000)	(2000)			(2000
Well 14a		•	Well 14aCont		
John W. Hooser, Jos. Nus		; al.	Ring shale	2	3000
lease. 5 miles east of			Sticky shale	12	3012
Surface	27	27	Shale	4	3016
Water sand	11	38	Shale and shell	4	3020
Shale	7	45	Shale	8	3028
Hard shale	95	140	Sticky shale	12	3040
Shale	180	320	Shale and lime shells	65	3105
Hard shale and boulders	370	690	Sandy shale	45	3150
Shale and boulders	256	946	Sticky shale	59	3209
Sticky shale	62	1008	Sandy shale	4	3213
Gumbo	4	1012	Shale	67	3280
Black sand	9	1021	Shale and lime shell	5	3285
Sticky shale	34	1055	Sticky shale	4	3289
Gumbo	20	1075	Hard sand and lime shell	3	3292
Sticky shale	71	1246	Sand	6	3298
Hard lime shale	26	1272	Sand, shale, streaks of lime	24	3322
Gummy shale	112	1384	Water sand	7	3329
Sticky shale	21	1405	TOTAL DEPTH		3329
Gumbo	9	1414			(0~0
Sticky shale	273	1687	Well 67a		
Broken sand	29	1716	J. S. Cosden Co., J. E. Wo	nde leae	- 5
Shale and boulders	72	1788	miles south of Kirvin.	ous reas	., .
Sticky shale	6	1794	Surface sand	3	3
Dry sand	8	1802	Surface sand and clay	92	95
Shale and boulders	194	1996	Sand	52	98
	22		Shale		•
Sticky shale		2018		176	274
Shale and boulders	86	2104	Shale and sand	153	427
Sticky shale	162	2266	Sticky shale	60	487
Hard sandy shale	14	2280	Gumbo	30	517
Sticky shale	90	2370	Hard shale	18	535
Hard shale and shell	1	2371	Lime rock	1	536
Dry sand	4	2375	Sticky shale	14	550
Broken sand and shale	22	2397	Gumbo	30	580
Hard shale	22	2419	Sticky shale	60	640
Dry sand	8	2427	Gumbo	42	682
Marl	29	2456	Gumbo and boulders	45	727
Sandy shale	54	2510	Hard shale and boulders	85	812
Lime rock	11	2521	Gumbo and boulders	20	832
Marl	21	2542	Sticky shale	57	889
Shale	47	2589	Hard shale and boulders	91	980
Chalk and hard brown lim		2603	Shale	35	1015
Broken lime and shale.			Gumbo and boulders	72	1087
showing some chalk	18	2621	Hard shale and boulders	38	1125
Hard chalk	12	2633	Gumbo	30	1155
Broken chalk	12	2645	Shale and boulders	90	1245
Hard chalk	40	2685	Shale and lime	55	1300
Chalk	15	2700	Shale and boulders	40	1340
Broken chalk	21	2721		70	
Chalk	16	1	Sticky shale	1	1410
	4	2737	Sticky shale and shells	85	1495
Hard shale and lime shel		2780	Shale	5	1500
Soft chalk	46	2826	Gumbo	15	1515
Shale and lime shells	56	2882	Hard shale	29	1544
Shale	40	2922	Sand rock	1	1545
Shale, pyrites, and boulde		2964	Sandy lime and pyrite	1	1546
Shale	34	2998	Hard shale	13	1559
			(Continued on next p	age)	

# -32-Table of Drillers' Logs, Freestone County--Continued

	ckness			ickness	Depth
	feet)	(feet)		(feet)	(feet)
Well 67aContinue	5		Well 203aCon	tinued	
Lime and pyrite	3	1562	Chalk	24	3024
Gumbo	8	1570	Shale	12	3036
Hard sandy shale	11	1581	Sand, ash, and iron	22	3058
Sandy shale	10	1591	Hard sand and shells	2	3060
Sticky shale	30	1621	Shale and shells	70	3130
Sandy shale	45	1666 ,	Shale P. C.	6	3136
Gumbo	14 '	1680	Hard clay and iron stone	1	3137
Shale	48	1728	Hard shale	11	3148
Gumbo	42	1770	Shale streaks	18	3166
Hard shale	30	1800	Soft shale	18	3184
Hard sandy shale and lime	6		Shale with sand streaks,		
Gumbo	2	1808	gray and flakey	18	3202
Tough gumbo	42	1850	TOTAL DEPTH		3503
Hard shale	45	1895			
Gumbo	26	1921	Well 210a		
Shale	44	1965	Neversuch Oil Co., Oliver	Burleso	n lease.
Sticky shale	20	<b>1</b> 985 <sup>†</sup>	42 miles southeast of Stre		
Sticky shale and gumbo	65	2050 '	Sandy shale	25	25
Tough gumbo	35	2085	Shale	15	40
Gumbo	10	2095	Sticky shale	6	46
Hard shale	10	2105	Shale and sand	34	80
Gumbo	35	2140	'Sandy lime shell	3	83
Hard shale	20	2160	Sandy shale	40	1113
Gumbo	17	2177	Sandy lime shell	5	118
Sticky shale	48	2225	Shale	262	380
Lime rock	2	2227	Shale and shell	289	669
Hard shale and boulders	13	2240	Shell	1	670
Sticky shale	60	2300	Shale with shell streaks	, 1	
Shale	41 j	2341	and boulders	277	947
Sticky shale	89	2430	Lime shell	2	949
Lime rock	3	2433	Shale	78	1027
Hard sand	46	2479	Cored	i	1027
Hard sandy shale	51	2530	Sticky shale	156	1183
Gumbo and gypsum	30	2560	Shale and shells	60	1243
TOTAL DEPTH		4226	Sandy shale	14	1257
	1		Sticky shale	380	1637
Well 203a	ļ	_	Broken formation	4,	1641
Bert Fields Co., E. E. Lam	b leas	e. 2 <sup>3</sup>	TOTAL DEPTH		3733
miles south of Streetman.					
Sand and shale	102	102	<u>Well 282a</u>		
Gumbo and shale	475	577	Peyton Bros., Ernest Beau		ase.
Gummy shale	463	1040 '	3 <sup>늘</sup> miles north of Fairfie	ld.	
Gray sand	15	1055	Hard clay streaks	10	10
Shale	74	1129	Sand	20	30
Sandy shale and hard shale		1580	Sandy shale	27	57
Sandy shale	194	1774	Sand and boulders	18	75
Broken chalk	90	1964	' Lignite	4	79
Red bed	18	1982	Sandy shale	29	108
Sticky shale	230	2212	Shale	4	112
Sandy shale	318	2530	Rock	_1	113
Gumbo	20	2550	Shale	17	130
Broken chalk	32	2582	Sand	26	156
Austin chalk	40 ;	2622	Shale	34	190
Chalk	74	2696	Hard send	5	195
Austin chalk	304	3000	(Continued on next p	page)	

## -33-Table of Drillers' Logs, Freestone County--Continued

	Thickness	Depth	Thickne	ss Depth
	(feet)	(feet)	(feet	
*******************	(1000)	(1000)		/ (1000)
Well. 282a			Well 312Continued	1
Shale and sand streaks	53	248	Sandy shale 13	179
Sandy shale	42	290	Hard shale 49	228
Rock	5	295	Sandy shale 12	1
Sand	40	335	Hard shale 27	267
Rock	4	339	Sandy shale 41	
Shale and boulders	261	600	Hard shale 12	1
Shale	50	650	Hard shale and sand streaks 11	
Rock	2	652	Rock 2	•
Shale boulders	198	850	Hard shale 8	
Rock	2	852	Hard shale and sand streaks 24	
Shale	156	1008	Sandy shale 10	
Shale and shells	192	1200	Sand 24	
Hard shale and boulder		1335	Hard rock 1	
Hard shale	25	1360	Sand and shale	3
Hard sandy shale	140	1500	Shale 4	
Shale	100	1600	Sandy shale 17	i i i i i i i i i i i i i i i i i i i
Hard shale and shells	71	1671	Sand 10	
Shale	69	2140	'Hard shale 9	1
Hard shale and shells	469	2213	Sandy shale 52	
Shale	199	2412	Shale 66	
Chalk	25	2437	Sandy shale 33	
Hard chalk	37	2474	Shale 16	
Pecan gap chalk	71	2505	TOTAL DEPTH	602
Pecan chalk	81	2586	CASING RECORD: 366 feet of 12	
Shale	9	2694	casing. 251 feet of 6-inch ca	
Shale and chalk rock	82	2776	60 feet into bottom of $12\frac{1}{2}$ -ind	
Shale	19	2794	Screen set: 366-389, 406-427 ø	
Shale and chalk rock	40	2824	feet. 24 feet of 6-inch set n	
Hard shale and broken	chalk212	3036	pressure valve, and plug on bo	ttom of 6
Sand	7	3043	inch.	
Shale and lime shells	168	3211		
Shale and shells	125	3336	Well 417	
Broken lime	17	3353	E. G. Rector Survey, NW corner	J. S.
Sandy shale	9	3362	Cullinan lease, $7\frac{1}{4}$ miles north	east of
Austin chalk	43	3405	Young.	
TOTAL DEPTH	·····	4403	Surface clay 232	1
		[	Sand and shell 86	1
Well 31	and a second second second second second second second second second second second second second second second		Sandy lime 5	1
Layne-Texas Co., City		.d Well	Sand 47	1
No. 1. In city of Fai	-	_	TCTAL DEPTH	370
Surface soil	1	1	1	ł
Clay	12	13	Well 417a	
Clay and sand breaks	18	31	Amerada Petroleum Corp., Hetti	
Clay	15	46	lease. $7\frac{9}{4}$ miles northeast of	
Sand and clay	23	69	Surface clay 33	
Shale and streaks of s	1	96	Shale and sand 391	
Shale	6	102	Sand and shale 96	1
Lignite and shale	5	107	Broken sand 20	
Shale	30	137	Sand rock 2	1
Hard shale	6	143	Shale 33	575
Sandy shale	6	149	Sand rock 2	577
Rock	1	150	Shale 92	669
Hard shale	9	159	Shale and streaks of sand 41	710
Send	7	166	(Continued on next page	)

## -34-Table of Drillers' Logs, Freestone County--Continued

	Thickness	Depth	· ;	hickness	Depth
	(feet)	(feet)		(feet)	(feet)
Well 417aCa	on tinuod		Well 553aCo	n+1	
Shale and shells	185	895	Shale Merr 303a-200	28	1734
Shale and boulders	20	915	Hard sand	20 66	1800
Shale	4	929	Sandy shale and shells	100	1900
Sand and shale	21	950	Shale and lime	75	1975
Sticky shale and shells	125	1075	Shale and shells	100	2075
Sand, shells, and shale	90	1165	Shale	115	2190
Rotten shale	68	1233	Sandy shale	45	2235
Shale and shells	841	1474	Hard white sand	10	2245
Shale	226	1600	'Shale	5	2250
Sticky shale	75	1675	Shale and shells	50	2300
Shale	27	1702	Sand and shale	205	2505
Sendy shale	28	1730	Shale	260	2765
Hard sand	4	1734	Shale and lime	100	2865
Sandy shale	20	1754	Shale	628	3493
Shale and shells	96	1850	Pecan gap chalk	147	3640
Shale	125	1975	TOTAL DEPTH		5590
Sticky shale	125	2100			
Black shale	50	2150	Well 600a		
Sticky shale and streak		~100	J. L. Collins Col. Wm. R	- Boyd.	Ir.
of chalk	35	2185	lease, 6 miles northwest		
Chalk and streaks of sha		2358	'Sand and clay	50	50
Chalk and shale	147	2405	Sandy shale	70	120
Shale	125	2530	Shale and shell	150	270
TOTAL DEPTH	<b>+</b> - 0	4025	'Water sand	45	315
	t of $10\frac{3}{4}$ -		Sandy shale	161	476
casing. 4018 feet of 7-			Sand rock	3	479
4022 feet of $2\frac{1}{2}$ -inch tu		8• i	Shale	21	490
		· · ·	Shale and boulders	5	795
Well 553	9.	_	Shale and shell	325	1120
Humble Oil and Refining		R. Dietz	Hard sandy shale	160	1280
lease. $7\frac{1}{2}$ miles east of			Shale and shell	258	1538
Clay	22	22	Shale	335	1873
Soft sand	13	35	Broken sand and shale	65	1938
Hard white shells	2	37	Shale and shell	98	2036
Soft sand	38 '	75	Sticky shale	46	2082
Hard sand	153	228	Shale	762	2744
Sand	77	305	Pecan chalk	16	2760
Shale	35	340	TOTAL DEPTH	1	4507
Sand	88 (	428			
Shale	15 i	443	Well 644a		
Brown sand	341	784	Sun Oil Company, Minyard	White le	ase.
Black shale	28	812	$2\frac{1}{4}$ miles northeast of De		-
Sand	100 /	912	Surface	12	12
Shale and shells	112	1024	Clay and shale	55	67
Sand	91	1115	Shale	5	72
Hard sand	175	1290	Sandy shale	44	116
Shale	110	1300	-	12	128
Shale and lime	100	1400	Sand and shale	77	205
Sand	100	1500	Sandy shale	75	280
Sand and shale	47	1547	Sandy shale and lignite	31	311
Hard w hite sand	5	1552	Rock	2	313
Broken sand and shale	54	1606	Shale and lignite	19	332
Hard sand	50	1656	Sand	7	339
Sand and shale	50	1706	Sand and shale	55	394
			(Continued on ne:		~~ ~
	I		(001011000 011 110.	10-1	

			-35-	
Table of	Drillers'	Logs,	Freestone	CountyContinued

	Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
		(2000)		()
Well 644a	and the second second second second second second second second second second second second second second second	445	Well 699aContinued	
Sticky shale Sand and shale	51	445	Hard sandy shale 51	544
Sand and share	49	494	Hard sand 30	574 580
Sandy shale	166 90	660 750	Packed sand 6 Gumbo 7	580 587
Lignite	90 2	750 752		670
Sandy shale	48	810	Hard sandy shale 83 Lime 1	671
Rock	2	812	Sandy lime 3	674
Sandy shale	28	940	Sandy lime and pyrites 4	678
Sand	40	980	Sandy lime and pyrices 4 Sandy lime 2	680
Shale and boulders	120	1100	Sand 62	742
Rock	2	1102	Shale 18	760
Shale	88	1190	Sand 35	795
Sand	2	1192	Sticky shale and boulders 149	944
Shale and boulders	48	1240	Lime 2	946
Sticky shale and lime	20	1360	Sticky shale 49	994
Shale and lime shells	105	1465	Packed sand 60	1054
Shale and boulders	220	1685	Sand 56	1110
Sticky shale	20	1705	Sticky shale and boulders 20	1130
Shale and boulders	20	1725	Sand 24	1154
Shale	4	1729	Sticky shale 51	1200
Rock	1	1730	Took SLM at 1160 feet.	
Sticky shale and bould	lers 100	1830	Lime 1	1206
Shale	288	2118	Sticky shale 94	1300
Hard shale	16	2134	Broken sand, shale, pyrites 130	1430
Shale	5	2139	Lime 3	1433
Rock	41	2180	Sticky shale 99	1532
Shale	25	2205	Water sand 5	1537
Sticky shale	20	2225	Sticky shale 10	1547
Shale	45	2270	Send 33	1580
Sticky shale	5	2275	Sticky shale 29	1609
Shale and shells	252	2527	Lime 1	1610
Shale	439	2966	Send 70	' 1680
Chalk	47	3013	Sticky shale 29	1709
Shale and chalk	192	3205	Shale 6	1715
Shale	60	3265	Lime 1	1716
Hard shale and boulder		3428	Shale 25	1741
Shale	169	3597	Sandy shale 61	1802
Shale and lime shells	150	3747		1803
Shale Chalk	170	3917	Sandy shale 47	1850
TOTAL DEPTH	46	3963 4762	Sticky shale 25 Hard sand 28	1875 1903
		4702		1
Wall 600a			Hard sandy shale 86 Hard sand 6	1989 1995
Well 699a			Broken shale, sand, and lime 20	2015
Roxana Petroleum Corp., Franz Thiele lease. 10 miles southeast of Dew.		Sandy shale 15	2010	
Surface sand	45 45	45	Sticky shale 49	2079
Send and lignite	35	00	Sticky shale and boulders 60	2139
Hard and soft sand	69	149	Sandy shale 26	2165
Sand	31	180	Sticky shale 15	2180
Shale	20	200	Sandy shale and boulders 44	2224
Sand and shale, broken	1	330	Lime 1	2225
Sticky shale and bould	1	353	Sticky shale and boulders 125	2350
Lime shell	1	<b>35</b> 4	Broken lime 20	2370
Shale	35	389	Sticky shale 7	2377
Send rock	4	493	Shale and boulders 80	2457

## -36-Table of Drillers' Logs, Freestone County--Continued

	ickness (feet)	Depth (feet)	}	Thickness (feet)	Depth (feet)
Well 6999Co	ntinued		Well 865aC	ontinued	
Well 699aContinued Sticky shale and boulders 74 253:			Vater sand	2	78
TOTAL DEPTH	14	3955	Gravel and clay	57 37	115
		0900	Gravel	6	121
Well 810a		;	Shale	16	137
Layne-Texas Co., City of	Topming Wo	11 No		24	161
	reague we	II NO• I	Sandy shale  Gumbo and shale	21	182
1. In city of Teague. Clay	7	7			191
-	10	17	Shale and boulders	30	221
Sandy rock Clay	10	35	Sandy shale	45	266
Sand	10 72	107	Gumbo	40 5	271
Blue clay		110 !		51	322
Sand	3 9	110	Gumbo	12	334
	9 5	119 124			i 335
Lignite		1	Sand rock	1	370
Shale with hard layers	27	151	Shale and sand	35	380
Rock	2 2	153	Gumbo	10	1
Coal Hand Jawana of	4	174	Shale	40	420
Hard shale and layers of	01	DEE	Gumbo	20 20	440 460
sandy cley Fine blue sand	81 21	255	Sand and shale Sand rock	20	462
		1	1		1
Shale	20 2	296		38	500
Rock		4	Gumbo	8	508
Gumbo with hard layers	21	319	Packed sand	52	560
Rock	3	322	Shale	20	580
Gumbo	20	342	Shale and boulders	10	590
Clay and boulders	23	365	Hard sand and shale	6	596
Rock	2	367	Water sand	17	613
Gumbo	16	383	Sand rock	2	615
Rock	4	387	1	60	675
Hard shale	31	418	Shale	15	690
Clay and gravel	8	426	Gumbo	5	695
Gumbo	27	453	Sand and shale	5	700
Rock	2	455	Shale	45	745
Gumbo	18		Soft sand rock	2	747
Fine muddy sand	16	489	Gumbo	8	755
Blue clay and sand	16	505	Shale	2	757
Hard sandy clay	25	1	Gumbo	4	761
Rock	2	532	1	15	776
Gumbo with layers of sand	-		Sand rock	7	783
clay	76	608	Hard sand	5	788
Rock	1	609	Sandy slate	20	808
Shale and gumbo	91	700	Gumbo	28	836
Fine blue sand	12	712	Red sand	1	837
Shale	20	732	Shale and boulders	30	867
Rock	4	736	'Hard broken sand	3	870
Soft clay	16	752	Quicksand and gravel	12	882
Sandy clay	5	757	Gumbo	8	890
Shale and gumbo	195	952	Sand and shale	15	905
TOTAL DEPTH		952	Shale and sand	6	911
		1	Gumbo	12	923
Emerald Oil Co., R. A. Ta	cker leas	se.	Sand, shale, and boulder Rock	•s 27 1	950 951
5 miles southeast of Teag			Steel line measurement.	1	
Surface sand	1	1	Gumbo	3	954
Clay	68	69	Send, shale, and boulder		986
Sand	7	76	Gumbo	15	1001
	,		TOTAL DEPTH		3068

		Depth (feet)	Thickness (feet)	Depth (feet)
		10007		(1660)
Well 1			Well 5	
Side of Highway 14, 100 yard	ls south	of	Gentle slope, J. H. Bounds tract,	$2\frac{1}{2}$
county line, south corner Os	scar Bour	nds 3	miles south of Wortham.	~
acre tract, 2 miles north of			Brown surface sand 1	. 1
Black sandy clay	1	1	Stiff brown clay 1	. 2
Gray sandy clay	4 <sup> </sup>	5	Stiff yellow clay 1	3
Sticky gray and yellow clay	2	7	Packed yellow sand 2	5
Sticky gray clay	4	13	Packed brown, yellow sand 3	8
Rock	¥	13	Yellow soapstone 2	10
No water sample collected. M	lay 20. 1	936.	Gray soapstone 4	14
			Blue shale 1	15
Well 2			Blue and yellow shale 3	18
North side of Highway 14, Jo	hn P. St	ubbs	Blue shale 3	21
tract, 1/4 mile north of Worth	am.		i Hard shale	21
Brown sandy clay	2	2	No water sample collected. May 7,	
Yellow sandy clay	4	6		
Gray and yellow sandy clay	12	18	Well 6	
Gray sandy scaps tone	4	22	Slope, J. M. Bounds tract, $2\frac{1}{4}$ mil	les
Blue scapstone and shale	8	30	southeast of Wortham.	
No water sample collected. M	lay 20, 1	936.	Stiff gray sandy clay 3	3
			Gray and yellow sandy clay 3	6
Well 3			Gray and yellow packed sand 2	8
Side of draw, center west li	ne N. H.		Gray and yellow scapstone 8	16
Lindley 13 acre tract, $l\frac{1}{2}$ mi			Gray soapstone 2	18
Wor tham.			Yellow soapstone and packed	
Stiff orange colored clay	1	1	sand	19
Stiff brown clay	1	2	Hard packed sand	19
Brown sandy clay	1	3	No water sample collected. May 7	1936.
Coarse yellow sand	1	4	······································	
Brown sand and clay	2	6	Well 7	
Coarse yellow sand	2	8	Gentle slope, W. G. Ross tract, 4	h miles
Yellow silty sand	4	12	south of Wortham.	- <u>-</u>
Brown silty sand	1	13	Brown silty sand 1	1
Coarse yellow sand	1 i	14	Stiff brown clay 2	3
Coarse brown sand	2 6	16	Tough gray and yellow clay 15	18
Coarse yellow sand Coarse blue sand	6 1	22 23	Hard clay	
Rock	1	23	No water sample collected. June &	, 1900.
Struck water at 19 feet.		60	Well 8	
Water sample collected. May	7 20. 195	36.	Hillside, Felix Keys tract, 5 mil	les part
	20, 200		of Wortham.	
Well 4			Stiff brown clay 1	1
Gentle slope, side of road r	lear J. M	б	Yellow sandy clay 2	3
Bounds tract, 3/4 mile south		<b>.</b>	Yellow clay and packed sand 6	9
Wortham.	i	ł	Gray clay and sand 2	11
Stiff yellow clay	4	4	Yellow silty sand 3	14
Yellow packed sand	11	15	Gray silty sand 1	15
Gray and yellow sand	2	17	Yellow clay and sand 1	16
Yellow sand	1	18	Gray clay and packed sand 3	19
Gray and yellow sand	2	20	Brown clay and sand 1	20
Rock	1	20	Gray packed sand 1	21
Struck water at 18.5 feet.	. 7 3020	,	Brown clay and sand 2	23
Water semple collected. May	/ /, 1936	·•••	Rock	23
		ł	No water sample collected. June	5, 1936

						38	3-		
Logs	of	W.	P.	A.	test	wells	in	Freestone	CountyContinued

Thickness (feet)	Depth (feet)	Thickness Dept (feet) (fee
	(2007)	
Well 9		Well 14Continued
Creek bottoms, Jno. C. Kirren Est		Stiff gray clay 2
3-3/4 miles south of Wortham.		Yellow gravelly clay 3
Brown surface sand 2	2	Yellow sticky clay 6 1
Brown clay and sand 1	3	Stiff yellow clay 7 2
Stiff black clay 3	6	Blue shale 1 2
Brown sandy clay 3	9	Hard blue shale
Brown clay and sand 2	11	No water sample collected. May 22, 193
Brown sandy clay 4	15	1
Stiff brown and gray clay 4	19	Well 15
Gray and yellow sandy clay 2	21	Gentle slope, J. P. Jackson tract, near
Rock	21	Streetman road, $\frac{1}{2}$ mile south of county
Struck water at 10 feet.		line, 51 miles northeast of Wortham.
Water sample collected. May 7, 1	.936.	Brown surface sand 1
		Stiff yellow clay 1
Well 11		Stiff gray clay 1
Hillside, J. J. Stubbs tract, 22	miles	Stiff yellow clay 6
east of Wortham.		Yellow sandy clay 9 1
Stiff yellow clay 3	3	Stiff gray and yellow clay 3 2
Gray and yellow sandy clay 9	12	Hard clay 2:
Gray and yellow sandy soap-	1	No water sample collected. May 22, 193
stone 4	16	
Gray and yellow sandy shale 2	18	Well 16
Gray shale 3	21	Hillside, F. A. Coleman and J. Cooper
Blue shale 2	23	tract, 7 miles northeast of Wortham.
Rock No water sample collected. May 20	23	Stiff black clay 3 Grav sandy clay 4
No water sample corrected, may re	1300	Gray sandy clay 4 Stiff gray and yellow clay 7 1
Well 12	-	Gray soapstone 1
Beside draw, J. J. Stubbs tract,	11	Blue sospetone 2 1
miles east of Wortham.	-4	L I
	3	Gray and yellow soapstone 2 1 Rock 1
Brown surface sand 3 Brown clay and sand 4	7	No water sample collected. May 22, 193
Stiff brown clay 5	12	
Stiff brown and yellow clay 2	14	Well 17
Gray sandy clay 2	16	Creek bottoms, F. A. Coleman tract, J.
Gray clay and sand 2	18	· Sparks Survey, 72 miles east of Wortham
Blue and yellow clay 3	21	Brown clay and sand 1
Stiff blue clay 1	22	Bleck sand and clay 4
Struck water at 15 feet.	1000	Gray clay and sand 1 Brown sandy clay 3
Water sample collected. May 20,	1990.	Brown sandy clay 3 Stiff brown clay 6 1
Well 13		
Hillside, T. J. Red tract, 34 mil		
east of Wortham.	les	
Yellow sendy clay 2	2	Struck water at 15 feet. Nater level 10.8 feet below top of
Yellow clay and sand 2	4	ground, 24 hours after hole completed.
Yellow gravelly clay, sand 5	9	Water sample collected. April 20, 1936
Rock	9	
No water sample collected. May 2	22, 1936	Well 18
		Gentle slope, Soggy Chancellor tract,
<u>Vell 14</u>	I	$\frac{1}{4}$ mile east of Railroad in J. Mathews
Creek bottoms, Jos. Nussbaum trac	st, '	Survey, 8 <sup>1</sup> / <sub>2</sub> miles east of Wortham.
northeast corner of S. A. Sweet S	Survey,	Brown surface sand 1
5 miles east of "ortham.	1	Stiff brown clay 2
Black sandy clay 2	2	Stiff blue sandy clay 1
Stiff black clay 1	3	Gray sandy clay 1
		(Continued on next page)
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Logs of W. P. A. test wells in Freestone County--Continued

Thickness	Depth	Thickr	1000	Depth
(feet)	(feet)		-	(feet)
(1660)	(1660)			(1000)
Well 18Continued		Well 22		
Gray and yellow sandy clay 1	6	Hillside slope, M. H. Harris t	ract	3/4
Yellow clay and sand 1	7	mile northwest of Kirvin.		· · · · ·
Gray clay and sand 1	8	Brown sand	1	1
Yellow silty send 3	11	Red clay and sand	1	2
Gray packed sand 2	13	Yellow sandy clay	2	4
Hand packed sand	13	Stiff yellow clay	2	6
No water sample collected. Apr. 2		, Yellow clay and sand	9	15
		Brown clay and sand	3	18
Well 19		Soapstone		18
Hillside, M. H. Harris tract, wes	st of	No water sample collected. Ma	ar, 9	, 1936
railroad in J. F. McGuffin Survey		ـــــــــــــــــــــــــــــــــــــ		
miles east of Wortham.		Well 26		
Brown surface sand 1	1	Gentle slope near creek, Mrs.	Ruth	L
Coarse yellow sand 2	3	Laney tract. 1 mile south of H		
Red and white sandy clay 3	6	Yellow sand	1	1
Red sandy clay 2	8	Yellow sandy clay	1	2
Coarse red and white sand 3	11	Brown sand and clay	2	4
Coarse red sand 1	12	Gray clay and sand	2	6
Coarse yellow sand 1	13	White silty sand	9	15
Coarse yellow and white sand 4	17	Yellow silty sand	2	17
Struck water seep at 3 feet.	1	White silty sand	1	18
No water semple collected. Apr. 2	20, 1936	Yellow sand and gray soap-		
		stone	1	19
Well 20		Yellow sand	3	22
Gentle slope, Burleson Church tra	act, 3불	Yellow sand and gray		
miles northeast of Kirvin on Stre	etman.	soapstone	1	23
road, 9 <sup>1</sup> / <sub>2</sub> miles east of Wortham.		Gray sand	1	24
Brown surface sand 2	2	Yellow sand	5	29
Brown sandy clay 1	3	No water sample collected. Man	r <b>.</b> 9,	1936
Stiff yellow clay 2	5	· · · · · · · · · · · · · · · · · · ·		
Gray and yellow sandy clay 1	6	Well 29		
Coarse gray send 1	7	Creek bottoms, Gilliams Poinde		•
Gray and yellow sandy clay 1	8	tract, $l_{\overline{Z}}^{1}$ miles west of Kirvin	1.	[
Gray sendy clay 3	11	Brown surface sand	1	1
Brown soapstone 1	12	Blue sandy clay	1	2
Gray and yellow sandy clay 3	15	Coarse yellow sand	2	4
Yellow silty sand 8	23	Coarse gray sand	2	6
Gray clay and send 1	24	Gray and yellow sandy clay	4	10
Yellow sandy clay 4	28	Gray clay and sand	5	15
Gray clay and packed sand 1	29	Coarse gray and yellow sand	2	17
Grey and yellow clay and		Gray sand	5	22
packed sand l	30	Blue sand	7	29
Black sand 1	31	Struck water at 6 feet.		
Black sandy lignite 1	32	Water sample collected. Mar. 2	23, 1	936
No water sample collected. Mer. 2	3, 1936	······································		
		Well 31		
Well 21		Hilltop, L. C. Carter tract, 1	L-3/4	:
In draw, F. Marberry tract, 14 mi	lles	miles west of Wortham.	l	
northeast of Kirvin.	1	Stiff red clay	2	2
Yellow clay and sand 2		Red and yellow sand and clay	2	4
Brown send and clay 1	3	Yellow silty sand	7	11
Brown sendy clay 3	6	White silty sand	2	13
Yellow sand 5	11	Yellow and white sand	6	19
Rock	11	Yellow sand	1	20
No water sample collected May 21,	1936		10	30
		(Continued on next page)	۱ I	

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Logs of W. P. A. test wells in Freestone County--Continued

Thickness Depth	Thickness Depth
(feet) (feet)	(feet) (feet)
	377 3 3 477
Well 31Continued	$\frac{\text{Well } 47}{\text{Well } 47}$
Gray sand 2 32	Creek bottoms, S. H. Smith tract, 62
Stiff yellow clay 1 33	miles southwest of Kirvin.
Struck water at 30 feet.	
Water sample collected. May 20, 1936.	prove burner and
	Hard packed sand 5
Well 32	No water sample collected. Mar. 5, 1936
Gentle slope, Ransom Stallworth tract, 2-3/4 miles west of Kirvin.	
	Mell 50 Level, near Clay McKinney tract, on high-
Brown surface sand11Red clay and brown sand12	wer 2 000 feet east of county line 7
	way 2,000 feet east of county line, 7克 miles southwest of Kirvin.
Stiff red clay13Red and yellow sandy clay14	Brown send 2 2
Yellow sand and clay 2 6	Yellow clay 1 3
Yellow sandy clay and soap-	Yellow s'nd and clay 3 6
stone 6 12	Coarse, light yellow sand 5 11
No water sample collected. Mar. 23, 1936	Yellow sand 4 15
Well 34	Gray and yellow sand 8 23
Gentle slope near draw, Alderman Bros.	Struck water at 15 feet.
tract, 3-3/4 miles west of Kirvin.	Water level, 11.7 feet below top of
Brown sandy clay 2 2	ground, 2 hours after hole completed.
Brown packed sand 1, 3	Waterssample collected. Mar. 3, 1936.
Yellow clay and sand 1 4	
Yellow silty sand 3 7	Well 54
Brown silty sand 2 9	Gentle slope near draw, on State High-
White silty sand 5 14	way No. 7, $7\frac{1}{2}$ miles southeast of Kirvin.
Yellow silty sand 5 19	Brown sand 1 1
	Brown sandy clay 1 2
Yellow silty sand 2 24	Yellow sandy clay 2 4
Blue water sand 5 29	, Yellow and red sandy clay 2 6
Struck water at 24 feet. Water level, 22.5 feet below top of	Rock No water sample collected. Feb. 20, 1936
ground, $\frac{1}{4}$ hour after hole completed.	No water sample corrected. reb. 50, 1900
Water sample collected. Mar. 10, 1936	Well 55
	Level land, on State Highway 7, 1.9
Well 39	miles east of county line, 7 miles south-
Creek bottoms, B. F. Robertson tract, 4	west of Kirvin.
miles southwest of Kirvin.	Brown sand 1 1
Brown sand 2 2	Brown sand and gray clay 4 5
Red and yellow sandy clay 1 3	Yellow clay and sand 2 7
Stiff yellow clay 1 4	Iron ore gravel 1 8
Yellow clay and sand 2 6	Coarse yellow sand 4 12
Yellow iron ore gravel 3   9	Coarse gray sand 1 13 Coarse yellow sand 6 19
Rock 29 No water sample collected. Mar. 10, 1936	Joint Joint Cond
and a set of the out of the set of the set	stone 7 28.
Well 42	Fine yellow sand 3 29
Level land, Kaiser Kuyaca tract, $5\frac{1}{2}$ miles	
southwest of Kirvin.	
Black gravel and sand 1 1	Well 57
Brown sand 1 2	Hillside, M. C. Tyner tract, M. R. Alston
Red sandy clay 2 4	Survey, $l_{\overline{z}}^{1}$ miles south of State Highway
Yellow sand and clay 2 6	No. 7, 8 miles southwest of Kirvin.
Yellow packed sand 1 10	Red and white sand and clay 3 3
Hard packed send 10	Gray clay and sand 5 8
No water sample collected. Mar. 10, 1936	Brown cley and sand 2 10
	(Continued on next page)
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# -41-Logs of W. P. A. test wells in Freestone County--Continued

Mh i a las a a	Denth	Thickness	Donth
Thickness (feet)	Depth (feet)		Depth (feet)
	(100 0)	(1000)	(1000)
Well 57Continued	i	Well 69	
Gray and yellow sand and	17.	Gentle slope, W. W. Ford tract, 42	miles
clay 3	13	south of Kirvin.	
Gray and brown sand and		Brown sand 3	3
scapstone 6	19	Yellow sandy clay l	4
No water sample collected. June 5	, 1936.	Gray sandy clay 1	5
	······································	Gray and yellow sandy clay 2	7
Well 58	Ţ	Gray sand 3	10
Level land, Peter Beyer tract, I.	Musick	Gray sandy clay 1	11
Survey, 15 miles northwest of Lim	estone	Yellow sand 5	16
Switch on T. & B. V. RR. $8\frac{1}{2}$ miles	south	Brown sandy clay 1	17
of Kirvin.		Soft gray clay 1	18
Stiff brown clay 3	3	Soft purple clay 1	19
Brown sandy clay 4	7	Gray send 1	20
Yellow silty sand 6	13 .	Black clay	20
Gray sand 1	14	Struck water at 20 feet.	1
Brown clay and sand 13	27	Mater level, 19.3 feet below top o	f
Gray silty sand 2	29	ground, $\frac{1}{4}$ hour after hole complete	
Brown silty sand 1	30	Water sample collected. Mar. 9, 19	36.
Yellow sand 4	34		
No water sample collected. June 5	1936.	Well 70	
<b>*</b> ** <b>&gt; &gt; &gt;</b>	•	Level land, J. J. Ausley tract, 42	miles
<u>Well 61</u>		south of Kirvin.	
Gentle slope, near creek on Highw	ay No.	Brown sand 1	1
7, 7 miles south of Kirvin.	1 - '	Yellow sand 1	2
Brown sand 1	1	Red and gray sandy clay 2	4
Brown and gray sandy clay 3	4	Gray sendy clay 4	8
Gray sandy clay 1	5	Gray sand 7	15
Grey and yellow sandy clay 2	7	Coarse gray and yellow send 3	18
Coarse yellow sand 4	11	Gray soapstone 3	21
Gray sand 1	1	Grey and yellow sandy soap-	07
Yellow clay and sand 1	13	stone 2	23
Sandy clay 2	15	Yellow silty sand 6	29
Fine white sand 4	19	No water sample collected. Mar. 7,	1936
Fine yellow silty sand 10	29		
No water sample collected. Feb. 2	0, 1930	Gentle slope near creek, side of c	~~~ <del>*</del>
Well 66		road, 32 miles north of Simsboro,	
Gentle slope, on county road oppo	ei to	yards west of B & R RR., 2-3/4 mil	
northeast corner of Cotton Gin Ce		south of Kirvin.	- S
6 miles south of Kirvin.	monorly :	Red and yellow sandy clay 2	2
Brown sand and rock 2	2	Yellow sendy clay 3	25
Yellow sand 2	4	Yellow clay and packed sand 3	8
Yellow sandy clay 2	6	Yellow silty sand backed sand 5	16
Yellow sand 4	10	Blue soapstone 1	17
Yellow sand and gray soap-	1 10	, Iron ore rock	17
stone l	11	No water sample collected. Mar. 7,	1
Gray soapstone 2	13	is we ber dempte botte beet, met, 7,	12000
Gray sand and soapstone 1	14	Well 81	
Yellow sand 4	18	Gentle slope, A. P. Cater tract, 2	milee
Brown iron ore send 1	10	southeast of Kirvin.	WTTC9
White silty sand 4	23	Yellow surface sand 2	2
Yellow silty sand 6	29	Yellow sandy clay 2	2 4
No water sample collected. Mar. 3	1	correction brandy brady	±
TO MUTEL PUMPLE COTTECTED MEL. 9	, 1950	'Gray, red, and yellow sandy clay 1	5
		Gray and red sandy clay 2	7
		(Continued on next page)	
		(constitued on next page)	1

# -42-Logs of W. P. A. test wells in Freestone County--Continued

Thicknes	s Depth	Thickness Depth
(feet)		(feet) (feet)
		( )
Well 81Continued		Well 89Continued
Gray and yellow sandy clay 8	15	Yellow sandy clay 3 27
Yellow sandy clay 2	17	Purple and gray silty sand 2 29
Yellow sand rock	17	Struck water at 28 feet.
Struck water at 6 feet.		Water level, 24.8 feet below top of
No water sample collected. Mar.	20, 1936	ground, $\frac{1}{4}$ hour after hole completed.
		Water sample collected. Mar. 18, 1936.
Well 85		<b>W 11 61</b>
Gentle slope, Tom Newman tract,		Well 91
field road, $2\frac{5}{4}$ miles east of Kir		Gentle slope near creek, W. A. Davidson
Brown surface sand 2	2	tract, in S. Park Survey, 8 miles south-
Yellow sand	5	east of Kirvin.
Yellow sandy clay 2	5	Brown sandy clay 2 2
Brown and yellow sandy clay 1	6	Gray and yellow sandy clay 3 5 Grav and brown sandy clay 1 6
Gray and yellow sendy clay 3 Gray sandy soapstone 1	9 10	Grav and brown sandy clay 1 6 Stiff gray and yellow clay 2 8
Coarse gray sand	11	Gray and yellow clay 3 11
Coarse yellow sand 1	12	Lignite and purple clay 1 12
White silty sand 1	13	
Yellow silty send 4	17	Gray and purple clay 2 15
Gray and yellow sendy clay 4	21	Stiff purple clay113Gray and purple clay215Gray end sendy clay116Sandy clay218Yellow sandy clay220
ray end yellow sand 2	23	Sandy clay 2 18
Vellow sand 2 Gray sand 6	25 31	
0	JL JL	
Struck water at 29 feet,	1076	Yellow sand 1 28 Damp white sand 1 29
Vater sample collected. Mar. 20	, 1990.	Damp white sand l 29    No water sample collected. Feb. 19, 1936
Well 87		no water sample collected. Feb. 15, 1500
Hilltop, Fred Carter tract, $3\frac{1}{4}$ m	iles	Well 94
southeast of Kirvin.	1160	Gentle slope, John Wylie tract, $\frac{1}{2}$ mile
Yellow surface sand	1	north of State Highway No. 7, 82 miles
Yellow clay and sand 1	2	southeast of Kirvin.
Red and yellow clay and send 1	23	Yellow sand 5 5
Red and white clay and sand 3	ĕ	Red and yellow sand 1 6
Yellow packed sand 4	10	Gray and yellow sand 4 10
Fray soapstone and yellow		Red, gray and yellow sand 5 15
packed sand 1	11	Yellow and grey sand 8 23
Nhite silty sand 3	14	Struck water at 20 feet.
Fray sand and soapstone 1 Coarse yellow sand 1	15 16	No water sample collected. Feb. 19, 1936
Fray silty send 10	26	Well 97
Frey and yellow silty sand 1	27	Gentle slope near hilltop, near Jim
Yellow silty sand 2	29	Short tract, on side road, 42 miles
No water sample collected. Mar.	j.	north of Teague, 72 miles southeast of
		Kirvin.
<u>Well 89</u>	-	Yellow sand 1 1
Level land, Wm. Blakeney tract,	6출 miles	Red and gray sandy clay 1 2
southeast of Kirvin.		Gray sandy clay 4 6
Brown surface sand 2	2	Gray and yellow sendy clay 1 7
Red and yellow sendy clay 2	4	White silty sand 14 21
Yellow sendy clay 6	10	White and yellow silty send 1 22
Grey send and soapstone 1	11	Grey silty send 5 27
Fray silty sand 2	13	Gray and yellow silty sand 2 29
• •	20	No water sample colle cted. Feb. 13, 193
White silty sand 7	4	
-	23	
Yellow silty sand 3	23	
-	23	

-43-Logs of W. P. A. test wells in Freestone County--County

T	hickness	Depth	Thickness Depth
	(feet)	(feet)	(feet) (feet)
Well 98			Well 105Continued
Hilltop, J. R. Sheffield	tract, 3	5 miles	Gray and yellow clay and
east of Simsboro, $6\frac{1}{2}$ mile.	s southea	ast of	send 3 5
Kirvin.	-		Gray and red clay and sand 2 7
Orange sandy clay	1		Gray and yellow sand 2 9
Stiff orange clay Yellow sand and clay	1	2	Gray sand 3 12
Gray soapstone	1	5	Yellow sand 1 13
Gray soapstone and decayed	-	, 5	Sand Sellow clay and 2 15
vegetable matter	u 1	6	
Gray soapstone	1	67	
Lignite	l	1 8	Gray sand 3 19 Gray clay and sand with de-
Grap soapstone	1	9	
Purple sand and soapstone	1	10	Fine gray and yellow send 5 27
Purple packed sand	1	10	
Thite packed sand	2	13	Coarse gray and yellow sand 1 28 Yellow clay and sand 1 29
Hard packed sand	ۍ د	13	No water sample collected. Feb. 13, 1936
No water sample collected	. Mar. 18	3, 1936,	, no water sample corrected, res, 10, 1900
Well 99			Well 108
Hilltop, Charles Phillips	tract, 2	2 miles	Gentle slope, John Neece tract, $\frac{1}{4}$ mile
east of Simsboro, 62 mile			east of railway, 8 miles south of Kirvin
Kirvin.			Yellow sand 1 1
Yellow sand	6	6	Yellow and red sandy clay 3 4 Red and gray sandy clay 2 6
Red and white sandy clay	6 4	12	
Coarse yellow sand Damp white silty sand	1	16 17	Fine gray sand 2 8 Gray sandy clay 1 9
Gray silty sand	3	20	Gray sand 1 10
White sand and soapstone	2	22	Fine yellow sand 8 18
Fine yellow sand	1	23	Fine white send 3 21
Fine white sand	6	29	
No water sample collected	<u>. Mar. 18</u>	3, 1936.	Coarse gray sandy clay 2 24 Damp vellow sand 3 27
Well 102		1	Damp yellow sand 3 27 Gray end yellow sandy clay 1 28
Level land, on county roa.	d 2-3/4 n	n <b>il</b> es '	Yellow sand 1 29
north of Teague, 7호 miles	southeas	stof	No water sample collected. Feb. 17, 1936
Kirvin.	_	_	
Yellow sand	1	1	
Gray and red sandy clay Yellow sandy clay	2	3 ( 5 (	Gentle slope, on State Highway No. 7, 32 miles northwest of Teague, 72 miles
Gray sandy clay	1	6	south of Kirvin.
Gray and yellow sandy clay		8	Yellow sand 1 1
Gray sandy clay	<b>1</b>	9	Yellow sandy clay 3 4
Gray and yellow sandy clay	y 7	16	Gray and yellow sand 3 7
Gray clay	1,	17	Red sand 2 9
Gray sand and purple clay	1	18	Gray and red sand 3 12
Purple and gray sand	2	20	Struck water at 4 feet.
Gray, yellow and purple	-		No water sample collected. Feb. 17, 1936
sandy clay Gray sand	1 8	21   29	Well 114
Struck seep water near su	-	20	Gentle slope, on county road, $6\frac{1}{2}$ miles
No water sample collected		3 1936	south of Kirvin.
	. 100. 10	J. ICOCC	Gray and yellow clay 2 2
Well 105		1	Gray and yellow soapstone 11 13
Level land, near Helen Ki	ne tract	on side	
road near State Highway N			Gray and yellow soapstone 4 19
north of Teague, 82 miles			
	יד <u>ה</u> החמים פ		
Brown sand	1   1		
Yellow sand	Ţ	2 :	(Continued on next page)
	r T	1	
		1	

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Logs of W. P. A. test wells in Freestone County--Continued

ml-1 - 1		Deve de la	Thickness Depth
	kness eet)	Depth (feet)	(feet) (feet)
(1	660)	(166.0)	
Well 114Continu	64		Well 127
Yellow sand and gray soap-			Level land, on county road, $\frac{1}{2}$ mile west
stone	4	28	of Teague, 9 miles south of Kirvin.
Gray sand and sospstone	ī	29	Brown sand 2 2
No water sample collected. M	-		Brown sandy clay 1 3
	,		Gray and yellow sendy clay 2 5
Well 119			Stiff yellow clay 1 6
Creek bottoms, on State High	way No	• 7.	Gray and yellow clay 2 8
5 miles west of Teague, 72 m	iles s	outh	Gray soapstone 2 10
of Kirvin.		1	Yellow silty sand 3 13
Brown send	2	2	Yellow sendy clay 1 14
Gray and red sandy clay	3	5	Gray silty sand 1 15
Gray and yellow sandy clay	5	10	Gray sendy clay 1 16
Purple and brown sand	1	11	Grey end yellow sand 1 17
Yellow sand	2	13	Gray send and soapstone 1 18
Gray and yellow send	2	15	Yellow sand and gray soap-
Yellow sandy clay	2	17	stone 1 19
Gray sandy clay	1	18	Gray soapstone 1 20
Red and yellow sand	3	21	Purple silty sand 1 21
Brown sand and lignite	1	22	White silty sand 2 23
Lignite	1	23	Light purple silty sand 2 25
Blue shale	2	25	Yellow silty sand 4 29
Light blue sand and shale	4	29	No water sample collected, Feb. 28, 1936
No water sample collected. F	eb. 20	, 1936	
			Well 200
<u>Well 121</u>		1	Flat, H. Carroll tract, at west city
Level land, 2,000 feet east			limits of Streetman, 1,000 feet south of
on county road, 9 miles sout	h of K	irvin.	county line.
Brown sand	3	. 3	Brown surface sand 1 1
Groyish-yellow sand and clay		5	Yellow sendy clay 1 2
Grayish-yellow sandy clay	3	8	Stiff brown clay 1 3
Coarse yellow sand	5	13	Gray sandy clay 3 6
Stiff gray clay	1	14	Gray and yellow sandy clay 1 7
Gray sandy clay	2	16	Coarse gray sand 1 8
Yellow sand	2	18	Brown and yellow sandy clay 3 11
Yellow sandy clay	2	20	Gray and yellow sandy clay 20 31
Yellow packed sand	3	23	No water sample collected. May 21, 1936
No water sample collected. M	ar. 6,	1936	Well 201
Well 125			Gentle slope, 25 yards east of railroad
Hillside, P. L. Luckey tract	<u> 21</u> m	1100	I near Kirvin road on G. B. Speed trect,
west of Teague, 92 miles sou			$1\frac{1}{4}$ miles south of Streetman.
	-		Brown surface sand 2 2
Red and yellow sendy clay	2	2	
Red and gray sandy clay	2	4 5	Brown sand and clay 1 3 Stiff yellow send and clay 2 5
Gray sandy clay	1		
Coarse yellow and gray sand	2	7	Yellow clay and sand 6 11
Yellow sand	1 1	8 9	Coarse yellow sand 5 16 Gray and yellow sandy clay 1 17
Gray sand Yellow sand	14		
Stiff blue clay	14 3	23 26	
Struck water at 17 feet.	Ð	03	
	+~~ ~		
Water level, 15.8 feet below ground, $\frac{1}{4}$ hour after hole co			•
Water sample collected. Mar			No water sample collected. May 21, 1936
me of southe corrected. Mal.	• • • •	000	•

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-45-Logs of W. P. A. test wells in Freestone County--Continued

	Der 4h		Denth
Thickness (feet)	Depth (feet)	Thickness (feet)	Depth (feet)
(1666)	(1990)		(1000)
Well 202		Well 209	
Creek bottoms, Frank Coleman trac	t. near	Hilltop, Mrs. M. D. Thurman tract	north
Highway 75, 12 miles southeast of			
man.		Streetman.	
Brown cley and sand 2	2	Yellow clay and sand 1	1
Yellow clay end sand 6	8	Gray and yellow sandy clay 1	2
Yellow sandy clay and iron		Gray cley and sand 1	3
ore gravel 1	9	Yellow silty sand 1	4
Brown sandy clay and iron	1	Gray and yellow silty sand l	5
ore gravel 1	10	Yellow silty sand 4	9
Yellow cley and sand 2	12	Gray silty sand 1	10
Gray send and shale 1	13	Yellow silty sand 1	11
Hard blue shale 6	19	Gray silty packed send 5	16
Rock	19	Herd packed sand	16
Struck water at 17 feet.		1. No water sample collected. Apr. 1	5, 1936
No water sample collected. Apr.	6, 1936		
	T	Well 210	
Well 203		Hillside, Mrs. Emily Jackson trac	t near
Hillside, Lige Edwards tract near	Kirvin	Highway 75, 4-3/4 miles southeast	
road, 2-3/4 miles south of Street	man.	Streetman.	
Red sandy clay 3	3	Brown surface sand 2	2
Red clay and sand 3	6	Stiff brown clay 1	3
Brown gravelly send 1	7	Red and yellow sandy clay 3	6
Gray and yellow sandy clay 7	14	Fine yellow sand 1	7
Coarse orange sand 9	23	Fine gray and yellow sand 6	13
Gray and yellow sand and clay 8	31	Fine orange sand 2	15
Gray and yellow sandy clay 3	34	Fine yellow sand 6	21
No water sample collected. May 21	, 1936	Brown and yellow silty sand 1	22
		Yellow silty sand 6	28
Well 204		Yellow clay and sand 1	29
Hillside, Mrs. E. C. Deaklee trac		Blue sandy shale 1	30
Highway 75, 24 miles southeast of	2	Struck water seep at 29 feet.	
Streetman.	1	Water semple collected. Apr. 6,	1936
Stiff red clay 1	1		
Red sand and clay 2	3	Well 211	
Red and yellow sandy clay 1	. 4	Flat, Earl Easterling tract, 2 mi	
Fine yellow sand 12	16	west of Highway 75, W. Carter Sur	vey,
Fine brown and yellow sand 3	19	44 miles southeast of Streetman.	
Brown and gray sandy soepstone 2	21	Red stiff clay 1	1
Yellow clay and sand 1	22	Stiff yellow clay 2	3
Yellow silty sand 9	31	Stiff gray clay 3	6
No water sample collected. Apr.	6, 1936	Stiff gray and yellow clay 2	8
		Gray clay and sand 2	10
Well 205		Orange silty sand 2	12
Gentle slope, Ed. McMullen tract	on old	White packed sand 4	16
highway, 32 miles east of Streetn		Yellow packed sand 5	21
White surface sand 1 Stiff brown clay 3	1	Gray and purple packed sand 1	22
Gray sand and clay 1	4 5 6	Yellow packed sand 1	23
Gray and yellow sendy clay 1		Yellow clay and sand 1	24
Yellow and brown sand 7	13	Yellow packed sand	25
Fine gray and yellow sand 6	19	Gray sand and clay 1	26
Fine yellow sand 3 Fine white sand 2	22 24	Yellow packed sand 1	27
Fine yellow sand 3 Fine white sand 2 Fine yellow sand 3 Gray packed sand 2	27	Brown packed sand	28
Gray packed sand 2	29	Hard packed sand	28
Hard packed sand	29	No water sample collected. May 21	, 1936
No water sample collected. Apr. 1	5, 1936	- <u></u>	

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-46-Logs of W. P. A. test wells in Freestone County--Continued

Thickness	Depth	Thickne	
(feet)	(feet)	(feet	) (feet)
	1		
Well 212	1	Well 219	
Hillside, O. W. Young tract 2 mil	les	Hillside, T. R. Bonner tract on	olđ
west of Highway 75, H. Burleson S	Survey,	highway, 6th miles east of Stree	tman.
6 miles southeast of Streetman.		Red clay and sand 1	; 1
Brown surface sand 1	1	Red and yellow sandy clay 2	3
Stiff red clay 1	2 .	Stiff yellow clay 1	4
Stiff yellow clay 2	4	Red and gray sandy clay 1	5
Brown gravelly sand 1	5	Red and white sendy clay 3	8
Hard gray soaps tone 3	8	Stiff gray clay 4	
Fine yellow sand 2	10	Yellow silty sand 1	1
Fine white sand 2	12	Gray sand and clay 1	1
Yellow clay and sand 1	13	Yellow silty sand 3	1
Gray packed sand 5	18	Yellow and white silty sand 2	
Yellow packed sand 1	19		1
	19		
Hard packed sand	,		•
No water sample collected. Apr.	1930		24 24
		Iron ore rock	
Well 214	1	No water sample collected. Apr.	15, 1936
Gentle slope, T. R. Bonner tract			
Highway 75, 62 miles southeast of	ť į	Well 224	-
Streetman.	1	Gentle slope, Ed. Watson tract,	
Brown sandy clay 1,	1	James Survey, 8 miles southeast	of
Stiff brown clay 2	3	Streetman.	4
Coarse gray sand 1	- 4	Yellow surface sand 1	1
Coarse gray and yellow send 1	5	Red and yellow sandy clay 2	
Gray and yellow sand 2	7	Red and white sandy clay 3	
White sand 2	9	Red and white sand 2	
Gray and yellow sand 1	10	Salmon colored sand 2	10
Fine gray and yellow sand 3	13	Yellow sand 2	12
Fine yellow send 3	16	White sand 9	21
Fine brown sand 1	17	Yellow sand 2	
Fine gray and yellow sand 3	20	Yellow and white sand 6	1
Fine yellow sand 2	22	Yellow sand 2	
Yellow send and iron ore	~ ~ ~	Yellow and white sand 1	32
gravel 1	23	Yellow quicksand 3	1
Blue and gray sandy shale 4	27	Quicksand	35
	)	Struck water at 32 feet.	00
No water sample collected. Apr.	0, 1930	4	1 1076
		No water sample collected. Apr.	4, 1930
$\frac{\text{Well 218}}{\text{Flot}} = \frac{1}{2} $	•1	W-11 095	
Flat, J. R. Sessions tract, $7\frac{1}{2}$ m	iles	Well 225	
southeast of Streetman		Flat, W. M. McCarver trace on B	
Yellow surface sand 2	-	ville road, 8 miles east of Str	
Stiff yellow clay 3		Coarse yellow sand 4	
Yellow sandy clay 1	6	Orange clay and sand 2	
Gray and yellow sand, clay 1	7	Gray and red sand 1	
Yellow clay end sand 3	10	Grey sand 1	
Stiff gray clay 1	11	Gray clay and sand 2	5
Gray silty sand 2	13	Gray sandy clay 1	
Brown clay and sand 2	15	Black sandy clay 1	. 12
Purple clay and decayed veg-		Gray sendy clay 1	. 13
etable matter 1	16	Yellow clay 8	1
White silty sand 1	17	Stiff gray clay 3	
-	18	Stiff vellow clay 8	57.
Yellow silty sand 1	18		3 32
-	18	Stiff yellow clay Struck water at 9 feet. Water sample collected. May 13,	

-47-Logs of W. P. A. test wells in Freestone County--Continued

T	hickness	Depth	Thickne	
	(feet)	(feet)	(feet	) (fee
$\frac{Well 226}{Well 226}$	1		Well 230Continued	-
Gentle slope, S. H. Bonne			Fine yellow sand	-
nerville road, 9 miles ea	st of Str	eetman.		
Stiff black clay	Ţ			1
Stiff gray and yellow cla		5		1
Stiff yellow clay	1	6		1
Brown gravelly clay	2	8		,
Yellow sandy clay	3	11	Blue sandy soapstone	
Iron ore rock	1	12	Brown and yellow sand l	•
Rock		12	rarpre banay oray	1
No water sample collected	. May 13,	1936.	Gray sand 2	1
W.13.000			Struck water at 42 feet.	1976
Well 227 Flat, C. H. and E. M. Wat	eon trad	ton	Water sample collected. May 14	, 1980.
Ninkler road, $9\frac{1}{2}$ miles ea	et of Q+	eetmen	Well 231	
Stiff red clay	80 01 301 3	3	Gentle slope, T. P. Watson Este	te near
Stiff yellow clay	3 1	4	Wildcat road, 8 miles north of	Fairfie
	1	5	Yellow surface sand	
Stiff red clay Yellow clay and sand	1 2	7	Yellow sandy clay	ι
•	2	9	Red and yellow sandy clay	1
Yellow silty sand	2 1	10		
Yellow clay and sand	2			
Yellow silty sand	1	12	Gray and yellow sandy scapstone 14	
Gray sand and clay	-	13		1
Yellow packed sand	3	16	arel compression	1
Iron ore rock	NS 3 4	1076	TOTION PROFED BANK	
No water sample collected	• May 14	1936.	Yellow packed sand and blue	
			shale Brown hard packed sand	+
Well 229			Diense herren sin-	• •
Hillside, W. R. Bonner tr			Hard packed send	
roads on Bonnerville road	, 9 <u>2</u> mile	es east	No water sample collected. Apr.	63, 19
of Streetman.	-	1 -		
Yellow surface sand	1		Well 232	
Gray and red sandy clay	3	4	Hillside, G. H. Watson tract ne	
Gray clay and sand	3	1 7		lieta®
Yellow clay and sand	1	8	Yellow surface sand	• 1
Brown soapstone	1	9	÷ ·	
Gray and yellow soapstone		11		
Purple scapstone	1	12		
Gray and yellow scapstone		14		
Purple soapstone	1	15		
Black sandy lignite	1	16		3
Purple sand and soapstone		18		3
Blue and yellow soapstone		20		1
Blue soapstone	1	21	No water sample collected. May	13, 193
Black stone coal	1	22		
Hard stone coal		22	<u>Well 234</u>	
No water sample collected	1. May 13	, 1936.	Hillside, G. H. Watson tract ne	
			highway, 6 miles north of Fair:	ield.
Well 230				7.
Hillside, T. R. Bonner to				
Chapel road, 72 miles non			Red and yellow sandy clay	2
Stiff red sand	2	2	Yellow sand	1
Red sandy clay	1	3	Yellow water sand	5
Orange sand	2	5	Quicksand	
Brown gravelly sand	1	6	Struck water at 17 feet.	
Yellow sand	1	7	No water sample collected. Apr	<b>. 1</b> 4, 19
White sand	4	11		
	-			

-48-Logs of W. P. A. test wells in Freestone County--Continued

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Thickness De	pth	Thickne	an Donth
	eet)		
	ee cj	(feet	;) (feet)
W-13 070			
Well 238		Well 247Continued	•
Hillside, Jim Frazier tract near High		Yellow and white sand 1	15
way 75, $6\frac{1}{2}$ miles northwest of Fairfie	- 1	White sand 2	
Yellow surface sand 2	2	Yellow sand 3	1
Red clay and sand 4	6	White sand 4	
Fine red and gray packed sand 3	9	Yellow sand 4	
Fine yellow packed sand 7	16	Gray sand 4	- 32
Fine red and gray packed sand 3		Struck water at 29 feet.	
Fine gray packed sand 7	26	Water le vel, 29.5 feet below	top of
Fine red and gray packed sand 2	28	ground, 3 hours after hole com	pleted.
Hard white sand 4	32	Water sample collected. Apr.	3, 1936.
Caving	32 (		,
Struck water at 31 feet.	İ.	. Well 251	
No water sample collected. Apr. 3, 19	36.	Gentle slope, M. L. Watson tra	ct on
Well 241		Steward Mill road, J. N. Clayp	
Hillside, J. Livingston tract, 3 mile	s	vey, $4\frac{3}{4}$ miles north of Fairfie	
west of Highway 75 near Kirvin road,		Yellow sandy clay	1
miles northwest of Fairfield	~~	' Red and yellow sandy clay 4	5
Brown surface sand	<b>1</b>	Stiff yellow clay	6
Stiff red clay	2	Stiff gray clay	7
Red and yellow clay and sand 2	4	Gray sand and clay 1	. 8
Yellow clay and sand 6	10	Gray sandy clay 1	9
Brown sand and clay 3	13	Yellow sand 1	10
Brown sandy clay 4	17	Gray sand 1	
Yellow clay and sand 1 Gray clay and sand 4	18 22	Gray and yellow sand 3 Yellow sandy clay 1	5 14 15
Gray and yellow sendy clay 2	24	Gray sandy clay	. ,
Gray and yellow sand 2	26	Fine gray silty sand 3	
Purple and yellow sand 3	29	Fine brown silty sand 1	
Struck water at 14 feet.		Iron ore rock	20
Water sample collected. Apr. 16, 193	6.	No water sample collected. Apr	. 14, 1936
			والكافاتيس جنوع فناعد بالفسياني جبيب مرد
Well 243		<u>Well 252</u>	
Hillside, M. J. Tate tract, $l\frac{1}{2}$ miles	I I	Hilltop, W. E. Jones tract, R.	
west of Highway 75 near Kirvin road,	5 i i	Survey, $4\frac{1}{2}$ miles north of Fair	field.
miles northwest of Fairfield.		Stiff brown clay	. 1
Red sandy clay 4	4 '	Stiff gray clay 3	
Red and gray sand 2	6	Gray sendy clay 3	
Yellow sand 2	8 ' '	Stiff gray clay 2	9
Yellow packed sand 3	11 1	White sand 1	. 10
Yellow sandy clay 1	12	Stiff brown sandy clay 1	. 11
Yellow packed sand 4	16	Yellow sandy clay 3	5   14
Yellow sand 10	26	Gray sandy clay	
Yellow sandy clay 3	29	Stiff brown clay	
No water sample collected. Apr. 16, 1	4	Stiff gray clay	
	1	Yellow packed sand 7	27
Well 247		Gray clay and packed sand 2	
Gentle slope, R. ". York tract near H	ich_	No water sample collected. Apr	
way 75, $4-3/4$ miles northwest of	т 5ш <del>.</del> ,	no water Sample Corrected. Apr	• 14 40005
Fairfield.	I <sup>- I</sup>	Well 258	
Yellow surface sand 1	1;	Gentle slope, Carl Williford t	
Brown sandy clay 1	2	1,000 feet south of Lake Chape	
Stiff red and gray clay 3	5	near Ward Prairie road, 4-3/4	miles
Red and gray sandy clay 2	7	north of Fairfield.	: }
Yellow sandy clay 1	8 ;	Brown surface sand	
Coarse yellow sand 2	10 (	Brown and yellow sandy clay 2	1
White sand 4	14 '	Stiff brown and yellow clay	1
		(Continued on next page)	

### -49-Logs of W. P. A. test wells in Freestone County--Continued

Thickness (feet)	Depth (feet)	Thickn (fee		Depth (feet)
	(1660)		<u> </u>	(2000/
Well 258Continued		Well 275	-1	
Yellow sandy clay 1	6	Gentle slope, Martha Day tract	, 32	miles
Stiff gray clay 2	8	northeest of Fairfield.	-	· -
Yellow sandy clay	9	Yellow surface sand	1	1
Gray and yellow sand 5	14	6 5	2	3
Gray send 6	20	Red and gray sandy clay	2	5
Yellow silty sand 3	23	Coarse yellow sand	2	' '
Gray silty sand 1	24	Fine gray clay and sand	6	
Yellow silty sand 1	25	Yellow sandy clay	1	<u>,</u> 14
Blue and gray soapstone 3	28	Gray silty sand	8	22
Stone coal 1	29	Yellow sandy clay	1	23
Struck water at 25 feet.			6	29
Water sample collected. April 13	1936	Yellow sand	2	31
hater sample corrected, April 10	, 1000	No water sample collected. Apr	. 13	
Well 263		NO Weider Stimpte Corrected and		
Gentle slope, T. R. Donaldson tr	nat nan	Well 281		
			orth	oast
Wildcat road, 6th miles north of	-	corner of H. Sheppard Survey,	101 01. 17 mi	lee
Brown surface sand 1	1		U mi	100
Coarse yellow sand 2	3	north of Fairfield.	1	٦
Yellow sandy clay 1	4	White surface sand	1 3	1
Red and yellow sandy clay 1	5	Stiff yellow clay		4
Red and white sandy clay 2	7	Coarse brown yellow sand	2	6
Yellow and white sand 2	9	Gray and yellow sand	4	10
Yellow sand 1	10	Gray sand	3	13
Gray sand 16	26	Brown and gray sand	2	15
Quicksand	26	Gray and yellow soapstone	4 5	19 24
Struck water at 20 feet. Water sample collected. Apr. 2	3, 1936.	Gray scepstone	2	26
a der sampre corrected. Apr. 2	0, 1000.	Blue soapstone Black soapstone	2	28
Well 265		Black packed sand	ĩ	29
Hillside, Wallsce McGuire tract	nert	Struck water seep at 25 feet.	-	1
Young road, 51 miles northeast		' No water sample collected, Apr	• 10	1936
field.	1	no we del Sample corrected et ipr	• <u> </u>	, 1000
Coarse yellow sand 6	6	Well 283		
White quicksand 4	10	Gentle slope, R. N. Cannon tra Highway 75, $3\frac{1}{4}$ miles north of	act r	lear
Quicksand	10	Highway 75, 34 miles north of		Tield.
Struck water at 6 feet. No water semple collected. Apr.	23, 1936.	Stiff red clay	$\frac{1}{2}$	3
		Coarse yellow sand	3	3 6
Well 272		Coarse brown sand	1	7
Hillside, E. J. Folk tract near		Gray and yellow sand	3	10
road, 4 miles northeast of Fair	field.	Gray sand and soapstone	4	14
Yellow surface sand 1	: 1	Gray soapstone	3	17
Yellow sandy clay 2	3	Yellow sand	1	18
Gray and red sand 4 Red sand 1	7	Grey scepstone and yellow	1	19
Gray and yellow send 1	9	White sand	1	20
Gray and red sand 1	10	Yellow sand	2	22
Grey sand 2	12	White sand	3	25
Sandy clay 2	14	Yellow sand	ĩ	26
Grey sandy clay 2	16	Gray sandy clay	2	28
Yellow sand 6	22	Gray sand	3	31
Gray sandy soapstone 3	25	Struck water at 28,5 feet.		
Gray sandy clay 1	26	Water level, 26.7 feet below t	top c	f
Struck water at 25 feet.		ground, 4 hours after hole con		
Water sample collected. Apr. 23	. 1936.	Water sample collected. Apr. 3	-	
	,	1	∽ي سو ∼	~ ~ 0

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Logs	of	₩.	Ρ.	Α.	test	wells	in	Freestone	CountyContinued

Thickness Depth Thickne (feet) (feet) (feet	ss Depth
(feet) (feet) (feet)	
	) (feet)
Well 290 Well 297Continued	
Creek bottoms, J. W. Brown tract near Yellow silty sand	
Highway 75, $1\frac{1}{2}$ miles northwest of Orange sand	29
Fairfield. Struck water at 25 feet.	
Stiff yellow clay 3 3 Water level, 24.5 feet below top	
Gray and yellow sandy clay 3 6 ground, $\frac{1}{4}$ hour after hole comple	
Brown silty sand 1 7 Water sample collected. Mar. 19,	1936.
Gray soapstone 3 10	
Gray sandy clay 2 12 Well 301	1.00
Gray silty sand 8 20 Gentle slope, Lofton Boyd tract,	
Gray sand 5 25 yards south of highway, 3-3/4 mi	les
Iron ore rock 25 southwest of Fairfield.	
Struck water at 20 feet. Yellow sand	1
Water level, 17.6 feet below top of Yellow sandy clay	
ground, 6 hours after hole completed. Gray and red sandy clay	
Water sample collected. Apr. 3, 1936. Gray and yellow sandy clay	1
Well 294 Gray and yellow sand J Well 294 Gray and yellow sandy clay	
	1
Creek bottoms, F. E. Hill tract, 2 miles: Gray and yellow sand I northwest of Fairfield. Gray and yellow sandy clay 4	
	1
	23
Brown sand18Struck seep water at 10 feet.Yellow silty sand513Struck water at 17 feet.	
Dark yellow silty sand 1 14 Water level, 11.5 feet below top	of
Yellow silty sand 10 24 ground, 3 hours after hole compl	
Dark yellow silty sand 1 25 Water sample collected. Feb. 1	
Yellow silty sand 4 29	1000
Struck water at 17 feet. Well 303	
Water level, 16.3 feet below top of Gentle slope, Bill Nolan tract r	68 <b>7</b>
ground, $\frac{1}{4}$ hour after hole completed. Highway 7, 2 miles southwest of	
Water sample collected. Mar. 19, 1936. Yellow surface sand	_
Red and yellow sandy clay	
Well 295 Red and yellow sand	f
Hillside, N. W. Davis tract, 3 <sup>1</sup> / <sub>2</sub> miles   Gray and yellow sand 2	
west of Fairfield. Red and gray sand and clay 7	1
Brown surface sand 1 1 Stiff gray and yellow sand	
Yellow sand 2 3 and clay 4	20
Red and gray sandy clay 3 6 Stiff gray clay 2	*
Orange sandy clay 1 7 Struck water at 8 feet.	
Orange sand 1 8   Water level, 4.9 feet below top	of
Yellow packed sand 5 13 ground, 100 hours after hole con	
White sand 16 29 No water sample collected. Mar.	-
No water sample collected. Mar. 19, 1936	
Well 308	
Well 297 Gentle slope, W. E. Jones tract,	늘 mile
Hillside, Moses Johns tract, 3-3/4 miles west of Fairfield.	
west of Fairfield. Brown surface sand	2
Brown surface sand 1 1 Red and yellow sandy clay 2	
Red sandy clay 2 3 Stiff red and yellow clay 1	່ 5
Coarse brown clay 1 4 Yellow sandy clay 1	
Yellow silty sand 2 6 Yellow clay and gray sand 4	
Brown silty sand 2 8 'Brown sand 2	12
White silty sand 3 11 Gray sand and soapstone 2	
Gray silty sand 8 19 Gray and yellow sand 1	15
(Continued on next page)	

-51-Logs of W. P. A. test wells in Freestone County--Continued

Thickness	Depth	Thickness	Depth
(feet)		(feet)	(feet)
			, ·, ·
Well 308Continued	ł	Well 323	
Gray sand and soapstone 1	16	Hilltop, Keeney and Hall tract, s	outh <del>-</del>
Gray and yellow sand 2	18	west corner of Juan N. Acosta Sur	vey,
Gray and purple sand 1	19	4 miles northeast of Fairfield.	
Gray silty sand 3	22	Yellow surface sand 3	3
Yellow silty sand 1	23	Yellow sandy clay 1	4
Brown silty sand 1	24	Red and white sandy clay 4	. 8
Gray sand and soapstone 1	25	, Yellow and white sandy clay 1	9
Yellow sand 2	27	White sandy clay 2	11
Gray sand 4	31	Yellow sandy clay 1	12
Gray silty sand 1	32	Gray sandy clay 4	16
Gray and yellow sand 1	33	Gray sand 1	: 17
Struck water at 33 feet.	1	Purple and gray sand 1	. 18
Water level, 32.1 feet below top	of '	Yellow sandy clay 3	21
ground, 96 hours after hole comple	1	Yellow sandy soapstone 1	22
Water sample collected, Mar. 26,		Gray silty sand 2	24
	**********	No water sample collected. May 1,	
Well 313			
Gentle slope, W. L. Moody tract, 1	near '	Well 326	
northeast corner of Reunion Ground		Hillside, McDonald and Huckaby tr	act.
Highway 7, $l_{4}^{1}$ miles east of Fairf:	•	north line of M. R. Palacios Surv	
Yellow surface sand 1	1	52 miles northeast of Fairfield.	~~~
Yellow sandy clay 1	2	Brown sandy clay	l
Stiff yellow clay 1	3	Stiff brown clay 2	3
Gray and yellow sandy clay 2	5	Brown sandy clay 2	5
Gray sandy clay 1	6	Brown and yellow sandy clay 3	8
Gray and yellow sandy clay 1	7	Gray and yellow sand 3	11
Rock	7	Gray sand 1	12
No water sample collected. Apr. 7		Gray sandy clay 10	22
	, 10000	Yellow sand 6	28
Well 320	I	Gray packed sand 2	30
Creek bottoms, J. M. Robinson trad	n+ 1≟	No water sample collected. May 1,	-
miles northeast of Fairfield.		no waser sample collected any is	10000
· ·	1	Well 407	
Stiff red s endy clay 2	3	Gentle slope, C. H. and E. M. Wat	90n
	5		
e e	6 -	tract, near Wildcat road in Tehua	
Gray and yellow sandy clay 1 Gray silty send 13			
	19 22	Brown silty send 3 Gray and yellow silty sand 2	35
Gray sand 3 Gray sand and scapstone 2	24		5
White sand 3	27	Gray and yellow sand 3 White sand 2	10
Yellow sand 1	28	Yellow sand	10
Gray sand and soapstone 1	29	White sand 7	18
No water sample collected. Apr. 7	1936.	Yellow sand 2	20
	C	Stiff gray clay 4	24
Well 321	i z	Struck water at 19 feet.	
Gentle slope, Will Giles Estate ne Young road, $2\frac{1}{2}$ miles northeast of	əar	Water sample collected. Apr. 24,	1936.
Fairfield.	i 1	Well 410	
Brown surface sand 1	<b>1</b>		1dee+
Stiff black clay 3	1 4	Flat, Mack Cockrell tract near Wi road, 4 miles northwest of Young.	TUCRO
Stiff gray clay	5	Yellow surface sand 1	1
Gray and yellow sand 4	9 (	Stiff red and brown clay	2
Gray and yellow silty sand 3	12	Stiff gray and yellow clay 2	245
Yellow silty sand 8 Gray silty sand 5	20 25	Brown sandy clay 1 Yellow sand 2	57
Gray silty sand 5 Gray and yellow sandy clay 4	29	Yellow sand 2 Yellow sandy clay 1	8
Struck water at 20 feet.		Fine yellow sand 8	16
Water sample collected. Apr. 23,	1936.	(Continued on next page)	
			1

-52-Logs of W. P. A. test wells in Freestone County--Continued

	10000	, MCTTD T	n Frees cone countycontinued		
	kness			kness	
	feet)	(feet)	<u>(f</u>	eet)	(feet)
Well 410Continue	-đ	1	<b>Tell 422</b>		
Brown sand, fine	1	17	Gentle slope, F. E. Hill trac	t near	
Fine yellow sand	18	35	Turlington road, 3/4 mile sou		
No water sample collected. A		1	Young.		
	101 <b>0</b>		Stiff red clay	3	3
Well 411		E I	Yellow sandy clay	ĩ	4
Gentle slope, Marvin Watson	treat	neer	Gray and yellow sand	2 -	6
Wildcat road, 34 miles north			Gray soapstone	2	7
Young.	uneau c		Yellow sandy clay		8
Red sandy clay	1	1	Yellow sand	9 1	17
Stiff yellow clay	4 3	5	' Orange sand	1 9 1 2	18
Yellow sandy clay	3	8	Yellow clay and sand	2	20
Yellow packed sand	10	18	Gray sand and soapstone	1	21
Hard packed sand	A 0/	18	Yellow sand		22 23
No water sample collected.	apr. 24	1930	Orange packed sand Yellow packed sand	2	25 25
Well 412		1	Gray sandy soapstone	1   2 1	26
Hillside, W. T. Cole tract,	2금 mil	les	Yellow sand	ī	27
northwest of Young.	· ~:	1	Yellow sandy clay	ī	28
Red sandy clay	3	3	Gray sandy soapstone	ī	29
Yellow silty sand	6	9	Hard soapstone		29
Gray silty sand	1	10	No water sample collected. Ma	y 19,	1936
Gray silty sand	2	12			
Yellow sandy clay	2	14	Well 423	<u>.</u>	
Blue shale	1	15	Gentle slope, Brady Gunter tr		
No water sample collected.	Apr. 24	1936	Fairfield road, 1-3/4 miles s	outhwe	est.
		Į	of Young. Coarse yellow	6	6
Well 415		- 1		ĩ	7
Gentle slope, H. P. Shields	tract,	14	Red and yellow sand	- ( 72 /	10
miles northwest of Young. Coarse blue sand	٦	. 7	Gray sand Red and yellow sand	32	12
Stiff brown clay	ź	3	Gray sand	5	17
Stiff gray sley	2	5	Gray and yellow sand	3	20
Yellow sandy clay	1 2	6	Gray sand	1	21
Gray sandy clay		8	Yellow sand	5	26
Yellow sandy clay	1	9	Gray and yellow sand	1	27
Gray and yellow sandy clay	2	_	Yellow sand	5	32
Stiff gray clay	3	14	Struck water at 17 feet.	07 TC	76
Yellow clay	1	15;	Water sample collected. Apr.	23, 19	130.
Gray and black silty sand	1				
Black lignite	1 2	17	Gentle slope, $W$ , C. Gunter tr	not no	0.14
Stiff gray clay	1	19 . 20 . I	Cook's Ferry road, 1-3/4 mile		
Blue soapstone	1	21	• • •	5 30UC	JII UI
Yellow sand	-		Young.	1 '	٦
No water sample collected.	Apr. 2'	±, 1900	Yellow surface sand	$\frac{1}{2}$	1 3
		ł	Yellow sandy clay	2 3	6
Right Doub Handanson tract	Norm B.	sturet at be	Stiff red and yellow clay	3	7
Flat, Boyd Henderson tract				3	10
road, 1/4 mile southwest of	-		Brown and yellow sandy clay	1	10
Yellow surface sand	2	2 ,	Gray sandy sospstone	2	13
Red and yellow sandy clay	1	3 :	Coarse brown and yellow sand	4	13
Stiff yellow clay	1	4	Gray sandy soaps tone	;	21
Coarse gray and brown sand	3	9	Brown sandy clay	4	21 22
Yellow sand	5	14	Gray sandy soapstone	1 2	22 24
"hite sand	6	20	Brown sandy clay	2	
Gray and yellow sandy clay	2	22	Gray sandy soapstone	1	26
White sand	6	28	Yellow sand	2   1	28 29
Red and white sand	3	31	Brown sandy clay		29
No water sample collected.	Apr. 2	3, 1936	(Continued on next pag	jej	

# -53-Logs of W. P. A. test wells in Freestone County--Continued

	chnoss	Depth	The states	- D (1)
	feet)	(feet)	(feet	s Depth (feet)
			(2000	(100 0)
Well 427Continu	-	(	Well 431Continued	1 _
Yellow sand	1	30	Gray sand	-
Gray sand	2	32	Gray sandy clay	1
Yellow sand	1	33	Yellow sandy clay	1
Brown sand	1		Yellow send	1
Yellow sand	1		Plue sand	30
Gray scapstone	1	36	Struck water at 14 feet.	1000
No water sample collected. M	ay 19,	1990*	Water sample collected. May 1,	1956.
Well 428			Well 432	-
Gentle slope, H. Bullock tra			Hilltop, F. E. Hill tract, 3 <sup>1</sup> / <sub>2</sub> mi	les
Cook's Ferry road, 11 miles	southe	ast of	southeast of Young.	
Young.	-	, , ,	Stiff brown clay	
Stiff yellow clay	1			6
Stiff gray clay	2	3	Yellow sandy clay	1
Gray sandy clay	3	6	Yellow sand	
Gray and yellow sandy clay	8	14	Brown sand	
Yellow sand	2	16	White sand	1
Gray and yellow sandy clay	2	18		. 13
Yellow sand	12	30	Yellow sand	1
No water sample collected. M	ay 1,	1936.	U	25
Well 429	a	i D	No water sample collected. May	, 1936
Flat, F. E. Hill tract near	COOK'S	Ferry		
road, 3 miles east of Young.	0		Well 423	
Brown surface sand	2	2	Creek bottoms, F. E. Hill tract	
Coarse brown sand	2	4	Pine Bluff road, $4\frac{1}{4}$ miles south	ast oi
Yellow sand, water	2	6	Young.	
Red gray sandy clay	2	8	Brown clay and sand 10	
Yellow sandy clay	11	19	U U	
Yellow sand	1	20	0	5 17
Yellow sandy clay	2	22		2   19
Yellow sand	3	25	0	L 20
Struck water at 5 feet.		70		
Water sample collected. May	19, 19	36.		3 24
			0	L 25
Well 430				2 27
Hillside, F. E. Hill tract n	ear iu	riing- i	•	L 28 2 30
ton road, 3 miles southeast		ng. 2		
Yellow sandy clay	2	1 1	0	3   34
Stiff red clay	1 2	3	•	1
Red sendy clay		5		
Salmon colored sendy clay	1	6		
Yellow sand	11	17		1 37
Yellow packed sand	1	18	Struck water at 33 feet.	1070
Iron ore rock	N	18	Water sample collected. May 19	1930.
No water sample collected.	May 1,	1930	Well 434	
Well 431			Hilltop, P. D. C. Ball tract on	Pine
Creek bottoms, J. M. Miller	tract	Juan	Bluff road, $5\frac{1}{2}$ miles southeast	
N. Acosta Survey, 3-3/4 mile			Young.	_
Young.	2 2040		Coarse yellow sand	10
Yellow sand	1	1	Yellow quicksand	1
Yellow sandy clay	ī	2	Quicksand	12
Gray and red sandy clay	8	10	Struck water at 10 feet.	70
Gray sandy clay	7	17	No water sample collected. May 1	9 1936
Yellow sandy clay	2	19	no water sample collected, May 1	U 1000
rerrow particle oral	4	13		

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Logs	of	W.	P.	Α.	test	wells	in	Freestone	CountyContinued		

T	hickness	Depth :		kness	Depth
	(feet)	(feet)	(fe	eet)	(feet)
				•	
Hillside, T. H. Richardson	n treat n	0.0 7	Well 501Continue Yellow surface sand	1 3	3
Blount School, $4\frac{1}{6}$ miles so	n tract n	of		3 4	7
Young.	Jucheast	01	Coarse yellow sand		
Brown surface sand	٦	, ¬ <sup>,</sup>	Salmon colored sand	4	11
Brown clay and sand	1 1		Coarse gray and yellow sand	4	15
Yellow sand and clay	1		Coarse yellow sand	1	16
Stiff yellow clay	2	5	White and yellow sand and	7	17
Gray silty sand	ະ 5	10	clay White conduction	1 1	18
Yellow silty sand	5	15	White sandy clay	Ŧ	10
No water sample collected.	-		White and yellow sand and	2	20
the water sample corrected.	• Apr• L1	, 1500.		2	20
Well 438			Gray and yellow soapstone	ĩ	23
Hillside, F. E. Hill trac-	t noor no	1	Yellow clay	9	23 32
Young-Turlington road, $4\frac{1}{2}$			Blue sendy clay	9	56
of Young.	mites so	u cn	Struck water at 6 feet.		20
Yellow surface sand	7		Water sample collected. May 12	2, 190	00.
Red packed sand	3 10	3   13	Well 502		
Red and yellow packed sand		13	Hilltop, P. D. C. Ball tract		<b>Di m</b> n
Iron ore rock	1 1				
No water sample collected.	Ann 27		Bluff road, 9 miles northwest		
te da dei sample collected.	, Apr. 21	, 1930.		11	11
Well 439			Fine white sand	4	15
Hillside, F. E. Hill trac	+ -	w] 1 m m	Coarse yellow sand	1	16
ton road, $5\frac{1}{2}$ miles south of			White clay and sand	4	20
Yellow surface sand			Coarse yellow and white sand	1	21
	2	2	Coarse white sand	3	· 24
Yellow sandy clay	3 1	5	Coarse yellow and white sand	6	. 30
Red and yellow sandy clay		6	Quicksand		30
Red sandy clay	4	10	Caving		30
Red and yellow sandy clay Brown sandy clay	1 2		Struck water at 25 feet.	0 100	
Iron ore rock	2	13	Water sample collected. May 1	z <b>,</b> 193	00.
	; 	13			
Struck water seep at 13 fe	360. Ann 07		Well 503		
No water sample collected.		1076	I WATTANA DI DI CI DATTANA		Denn
	• 1101 • 137	, 1936	Hillside, P. D. C. Ball tract	near	Pine
Wall 500	• 1101 • 07	<u>, 1936</u>	Bluff road, 9 miles northwest	of Bu	tler.
Gentle slope F F Hill		1	Bluff road, 9 miles northwest Yellow sandy clay	of Bu 3	tler.
Gentle slope, F. E. Hill	tract nea	r	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand	of Bu 3 3	atler. 3 6
Gentle slope, F. E. Hill Young road, 9 miles north	tract nea west of B	r utler.	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand	of Bu 3 3 1	atler. 3 6 7
Gentle slope, F. E. Hill Young road, 9 miles northy Yellow sand	tract nea west of B 2	r utler. 2	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand	of By 3 1 4	1tler. 3 6 7 11
Gentle slope, F. E. Hill Young road, 9 miles north Yellow sand Yellow clay and send	tract nea mest of B 2 1	r utler. 2 3	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand	of Bu 3 3 1	11er. 3 6 7 11 12
Gentle slope, F. E. Hill Young road, 9 miles northw Yellow sand Yellow cley end send Brown sandy clay	tract nea west of B 2 1 1	r utler. 2 3 4	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel	of Bu 3 1 4 1	tler. 3 6 7 11 12 12
Gentle slope, F. E. Hill Young road, 9 miles northy Yellow sand Yellow clay and send Brown sandy clay Yellow sandy clay	tract nea west of B 2 1 1 2	r utler. 2 4 6	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand	of Bu 3 1 4 1	11er. 3 6 7 11 12 12
Gentle slope, F. E. Hill Young road, 9 miles northy Yellow sand Yellow clay and send Brown sandy clay Yellow sendy clay Red sand and clay	tract nea west of B 2 1 1 2 1	r utler. 2 3 4 6 7	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel <u>No water sample collected. May</u>	of Bu 3 1 4 1	tler. 3 6 7 11 12 12
Gentle slope, F. E. Hill Young road, 9 miles northy Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay	tract nea west of B 1 1 2 1 1 1 1	r utler. 2 3 4 6 7 8	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May Yell 504	of Br 3 1 4 1 y 12,	atler. 3 6 7 11 12 12 1936
Gentle slope, F. E. Hill Young road, 9 miles northwy Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay	tract nea west of B 2 1 2 1 2 1 1 y 3	r utler. 2 3 4 6 7 8 11	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Yell 504</u> Hilltop, P. D. C. Ball tract of	of B 3 1 4 1 <u>y 12,</u>	2tler. 3 6 7 11 12 12 1936 Pine
Gentle slope, F. E. Hill Young road, 9 miles north Yellow sand Yellow clay and send Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sendy clay Stiff gray clay	tract nea west of B 2 1 2 1 2 1 1 y 3 1	r utler. 2 3 4 6 7 8 11 12	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Vell 504</u> Hilltop, P. D. C. Ball tract of Bluff road, 8 miles northwest	of Br 3 1 4 1 y 12, near 1 of Br	2tler. 3 6 7 11 12 12 1936 Pine atler.
Gentle slope, F. E. Hill Young road, 9 miles northwy Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay Stiff gray clay Yellow packed sand	tract nea west of B 2 1 2 1 2 1 1 y 3 1 2	r utler. 2 3 4 6 7 8 11 12 14	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel <u>No water sample collected. May</u> <u>Vell 504</u> Hilltop, P. D. C. Ball tract a Bluff road, 8 miles northwest Coarse yellow sand	of B 3 3 1 4 1 y 12, near 1 of B 6	2tler. 3 6 7 11 12 12 1936 Pine 2tler. 6
Gentle slope, F. E. Hill Young road, 9 miles northwy Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay Stiff gray clay Yellow packed sand White packed sand	tract nea west of B 2 1 2 1 2 1 1 y 3 1	r utler. 2 3 4 6 7 8 11 12 14 22	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Vell 504</u> Hilltop, P. D. C. Ball tract of Bluff road, 8 miles northwest Coarse yellow sand Red gravel and sand	of Br 3 1 4 1 y 12, of Br 6 2	atler. 3 6 7 11 12 12 1936 Pine atler. 6 8
Gentle slope, F. E. Hill Young road, 9 miles northwy Yellow sand Yellow cley end send Brown sendy clay Yellow sendy clay Red sand end clay Bray end brown sandy clay Gray end yellow sendy clay Stiff gray clay Yellow packed sand White packed sand Hard packed sand	tract nea west of B 1 1 2 1 1 2 1 1 2 1 2 1 2 8	r utler. 2 3 4 6 7 8 11 12 14 22 22	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Vell 504</u> Hilltop, P. D. C. Ball tract of Bluff road, 8 miles northwest Coarse yellow sand Red gravel and sand Coarse red sand	of B 3 1 4 1 y 12, of B 6 2 6	atler.       3       6       7       11       12       12       1936   Pine atler.        6       8       14
Gentle slope, F. E. Hill Young road, 9 miles northwy Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay Stiff gray clay Yellow packed sand White packed sand	tract nea west of B 1 1 2 1 1 2 1 1 2 1 2 1 2 8	r utler. 2 3 4 6 7 8 11 12 14 22 22	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Vell 504</u> Hilltop, P. D. C. Ball tract of Bluff road, 8 miles northwest Coarse yellow sand Red gravel and sand Coarse red sand Coarse yellow sand	of B 3 1 4 1 y 12, of B 6 2 6 1	atler.       3       6       7       11       12       12       1936   Pine atler.
Gentle slope, F. E. Hill Young road, 9 miles north Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay Stiff gray clay Yellow packed sand White packed sand Hard packed sand No water sample collected	tract nea west of B 1 1 2 1 1 2 1 1 2 1 2 1 2 8	r utler. 2 3 4 6 7 8 11 12 14 22 22	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Vell 504</u> Hilltop, P. D. C. Ball tract n Bluff road, 8 miles northwest Coarse yellow sand Red gravel and sand Coarse red sand Coarse yellow sand Stiff gray and white clay	of B 3 1 4 1 y 12, of B 6 2 6 1 3	atler.       3       6       7       11       12       12       1936   Pine atler.  6 8 14 15 18
Gentle slope, F. E. Hill Young road, 9 miles north Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay Stiff gray clay Yellow packed sand White packed sand Hard packed sand No water sample collected Well 501	tract nea west of B 1 2 1 2 1 1 3 1 2 8 4 pr. 27	r utler. 2 3 4 6 7 8 11 12 14 22 22 , 1936.	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Vell 504</u> Hilltop, P. D. C. Ball tract n Bluff road, 8 miles northwest Coarse yellow sand Red gravel and sand Coarse red sand Coarse red sand Stiff gray and white clay Coarse yellow sand	of B 3 3 1 4 1 1 y 12, of B 6 2 6 1 3 3	atler.       3       6       7       11       12       12       1936   Pine atler.  6 8 14 15 18 21
Gentle slope, F. E. Hill Young road, 9 miles north Yellow sand Yellow clay and sand Brown sandy clay Yellow sandy clay Red sand and clay Bray and brown sandy clay Gray and yellow sandy clay Stiff gray clay Yellow packed sand White packed sand Hard packed sand No water sample collected	tract nea west of B 2 1 2 1 2 1 y 3 2 8 . Apr. 27 ract near	r utler. 2 3 4 6 7 8 11 12 14 22 22 , 1936. Pine	Bluff road, 9 miles northwest Yellow sandy clay Red and yellow clay and sand Coarse yellow sand Red gravel and sand Coarse orange sand Iron ore gravel No water sample collected. May <u>Vell 504</u> Hilltop, P. D. C. Ball tract n Bluff road, 8 miles northwest Coarse yellow sand Red gravel and sand Coarse red sand Coarse yellow sand Stiff gray and white clay	of B 3 3 1 4 1 y 12, of B 6 2 6 1 3 3 4	atler.       3       6       7       11       12       12       1936   Pine atler.  6 8 14 15 18 21 25

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-55-Logs of W. P. A. test wells in Freestone County--Continued

Thic	kness	Depth	Thick	ness	Depth
	eet)	(feet)		et)	(feet)
		(1000)		<u> </u>	(100 0)
Well 505			Well 509Continued	ł	I
Gentle slope, F. E. Hill tra	ct. 큐	mile	Yellow sand	4	22
south of Trinity school near			Purple yellow clay	1	23
road, 7 miles northwest of B			Purple and yellow sand	ī	24
Coarse yellow sand	6	6	Purple sand	2	26
Coarse orange sand	5	i	: Yellow sand	1	27
Coarse yellow sand	3	14	Rock	-	27
Yellow clay and sand	1	15	Struck water at 15 feet.		
Coarse white sand	1	16	No water sample collected. Jur	ie 29.	1936
Coarse orange and white sand	1	17			
Coarse yellow send	1	18	Well 510		
Gray silty sand	3	21	; Hillside, P. D. C. Ball tract	near	Evans
Coarse yellow sand	1	22	Lake road, 3 miles northwest of		
White sand	6	28	Brown surface sand	]	1
Coarse yellow sand	5	33	Yellow clay and sand	5	6
Struck water at 31 feet.	-	00	Yellow and white sandy clay	2	8
No water sample collected. M	av 12	. 1936.	Yellow clay and sand	2	10
			Red clay and sand	4	14
Well 507			Red and white sandy clay	2	16
Gentle slope, P. D. C. Ball	tract	$.6^{\frac{1}{6}}$	Yellow and white sandy clay	2	18
miles north of Butler.		, 02	Yellow clay and sand	2	20
Brown surface sand	2	2	Iron ore gravelly sand	ĩ	21
Stiff red clay	$\tilde{3}$	5	Yellow sand	1	22
Orange sand	5	10	Red sand	$\frac{1}{2}$	24
Yellow clay and sand	1	10	Brown sand	ĩ	25
Gray soapstone	ì	12	Yellow sand	i	26
Yellow scapstone	1	13	Brown send	1	27
Yellow and white sand and	*	10	Yellow and white sandy clay	4	31
clay	2	15	Yellow clay and sand	1	32
Yellow sand	9	24	, Iron ore sand	$\hat{\overline{2}}$	34
Yellow clay and sand	ĩ	25	Iron ore rock	2	34
Struck water at 14 feet.	~	50	No water sample collected. May	r 5 1	
No water sample collected. Ju	une 2	0 1036	No wa ter sampre corrected, may		
no water sample collected.		<i>,</i> 1000	Well 511		
We <b>ll</b> 508			Flat, P. D. C. Ball tract, 3 m	iles	north
Hillside, F. E. Hill tract n	ear B	mti f	of Red's Lake, $3\frac{1}{4}$ miles northw		
Farm road, $5\frac{1}{2}$ miles north of			Butler.		
Yellow surface sand	2	2	Yellow surface sand	1	1
Yellow sand	6	~ 8	Yellow clay and sand	3	, 4
Yellow clay and sand	3	11	Red and white and sandy clay	2	6
Yellow send	2	13	Red silty sand	2	8
Black and yellow sand	2	15	Fine brown send	ĩ	9
Yellow sand	7	22	Fine red sand	1	10
Grey send	10	32	Fine orange sand	2	12
Struck water at 23 feet.	<b>*</b> °	02	Yellow packed sand	$\tilde{4}$	16
No water sample collected. J	una 2	9 1936		2	18
no water sample collected.	une b	0, 1000.	Fine yellow packed sand	2	20
We <b>ll</b> 509			Fine white packed sand	~ 4	24
Hillside, C. E. Childs tract	noon	Fronc	'Fine yellow packed sand	3	27
Lake road, 3 <sup>1</sup> / <sub>2</sub> miles north of			'No water sample collected. May	-	
Brown cley and sand	-	3	Wo water sample collected. May	0,1	.000.
•	3 3	о 6	Well 512		
Red and yellow sand and clay	1	7		a+ ~~	0.0
Orange silty sand Red and white sendy alow	1 2		Edge of draw, G. T. Gilpin tra		
Red and white sandy clay		9 12	l old West Point road, 5克 miles	HOL OU	INCSU
Orange clay and sand Brown sand	3 1	12 $13$	of Butler.	r	1
	1 5		Brown surface sand (Continued on next pa	ro)	1
Gray and yellow sandy clay	U	18	Continued on next pa	641	

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Logs	of	W.	Ρ.	Α.	test	wells	in	Freestone	CountyContinued

Thic	knoco	Depth .	Thickness De	nth
	eet)	(feet)		eet)
· · · · · · · · · · · · · · · · · · ·				000/
Well 512Continue	d	,	Well 516	
Yellow clay and sand	- 3	4	Hilltop, J. B. Daniel tract near Red	's
Coarse yellow sand	2	6	Lake, 3 miles west of Butler.	
Coarse red and yellow sand	3	9	Yellow surface sand 1	1
Red and white sandy clay	2	11	Yellow sand and clay 2	3
Yellow and white sand	3	14		
White sand	1	15	White sand 2	4 6
Yellow sand	1	16	Brown and yellow sand 1	7
White send white perfect cond	3	19	Red iron ore sand 1	8
Yellow and white packed sand No water sample collected. Me	2 v 4.	21 1936.	Iron ore rock No water sample collected. Apr. 9, 1	`8 .936.
	·			
Hillside, P. D. C. Ball tract	near	H:11	Hilltop, T. J. Ferguson tract near P	ino
road, Jose Ignacio Aquilera S	11001 11701	33	Top School, 12 miles north of Butler	
miles northwest of Butler.	~ • • ⊂ <b>`</b> A	, ~4	Stiff red clay	-
Brown surface sand	г	- г	•	1
Yellow clay and sand	1 5	1 6	Red gravel and clay 2 Red sand and clay 1	$\frac{3}{4}$
Red and yellow sand	5 2 4	8	Fine red sand 2	6
Red clay and sand	4	12	Yellow clay and sand 1	6 7
Orange clay and sand	2	14	Fine yellow sand 1	8
Yellow sand rock		14	Yellow clay and sand 2	10
Hard packed sand No water sample collected, Ma	AT A	14	Fine yellow packed sand 2 Brown clay and sand 1	12 13
	<u>y -</u> ,	<u></u> ]	Yellow packed sand 1	14
Well 514			Iron ore rock	14
Hilltop, J. B. Daniels tract		High-	No water sample collected. May 5, 19	36.
way 7, $4\frac{1}{2}$ miles west of Butle:	r.	, ,		
Yellow surface sand	1	1	Well 520	
Yellow clay and sand	3	4	Gentle slope, W. E. McDaniel tract n	ear
Red and yellow sand	4	8	Highway 7, $l_4^{\pm}$ miles west of Butler.	
Red and white soapstone	4	12	Yellow surface sand 2	2
Rock		12	Red and gray sandy clay 4	6
Struck water at 9 feet.		i	Gray sand and soapstone 2	8
Water level, 5.4 feet below to			Coarse yellow sand 1	9
ground, 25 hours after hole c	omple	eted.	Red and white sand 1	10
Water semple collected. Apr.	9 <b>,</b> 19	36	Brown and white sand 1	11
			Fine yellow sand 2	13
Well 515			Brown sand 1	14
Hillside, P. D. C. Bell trect			Gray sand 1	15
south of Highway 7, $4\frac{1}{2}$ miles w	west	of	Brown sand and soapstone 1	16
Butler.			Black sandy soapstone 3	19
Coarse orange sand	1	1	Blue and green sand 6	25
Red send and clay	1	2	Black sand and soapstone 1	26
Red sand	1	3	Rock	26
Orange silty sand	3	6	Struck water at 21 feet.	
Yellow and white sand	6	12	Water level, 19.2 feet below top of	
Yellow and white sendy clay	1	13	ground, 24 hours after hole complete	
Gray sand	1	14	Water sample collected. Apr. 9, 1936	•
Yellow sand	3	17	· · · · · · · · · · · · · · · · · · ·	
Purple soapstone	2	19	Well 523	
Bleck soapstone	10	29	Hilltop, W. P. Telbot tract near Oak	
Purple soapstone	1	30	wood road, W. P. Powell Survey, 22 m	iles
Brown cley and sand	1	31	west of Butler.	
White packed sand	1	32	Yellow surface sand 3	3
Yellow packed sand	1 '	33	Coarse yellow sand 2	5
Yellow sand rock		33	Red gravelly sand 4	9
No water sample collected. Mag	у6,	1936.	Rock	9
			No water sample collected. June 1, 1	936.

### -57-Logs of W. P. A. test wells in Freestone County--Continued

Thickness		Thickness Dept	
(feet)	(feet)	(feet) (fee	<u>t)</u>
Well 526			
	haf da m	Well 532	
Hillside, H. M. Johnson and N. C. G	riaer	Hillside, Mrs. M. Killough tract near	
tract, T. Dowie Survey, 4 miles sou west of Butler.	tn-	Highway 7, $\frac{1}{4}$ mile southeast of Butler.	
			2
Coarse gravelly send 1	2 3		5 7
Red sandy clay 2	5	Red gravelly sand2Red clay and sand61	
Red and white sendy clay 1	6	Struck water at 8 feet.	U
Orange clay and sand 1	7	Water level, 6.8 feet below top of	
White soapstone 1	8	ground, 21 hours after hole completed.	
Red sand 2	10	Water sample collected. Apr. 9, 1936.	
Gray sand and soapstone 2	11		
Coarse sand 2	13	Well 533	
Gray and purple scapstone 1	14	Hillside, Mrs. A. W. Parsons tract near	r
Red sand 1	15	Oakwood road, $l\frac{1}{2}$ miles southeast of	
Yellow sand 1	16	Butler.	
Brown sand and soapstone 2	18		7
Coarse brown sand 1	19	Yellow quicksand 3 1	
Brown sand and clay 3	22	Struck water at 7 feet.	
Struck water at 15 feet.		No water sample collected. June 2, 193	6.
Water sample collected. June 1, 19	36.		
		Well 534	
<u>Well 529</u>	1	' Hilltop, P. M. McGeorge tract near	
Hillside, Geo. E. Dilley tract near		Highway 7, $2\frac{1}{2}$ miles east of Butler.	
Buffalo road, 4 miles southwest of		Gray surface sand 2	2
Butler.		Gray and yellow sand 1	3
Red sandy clay 3	3	Gray and yellow sandy clay 1	4
Orange clay and sand 3	6		7
White sand 2	8	Gray and red sand 2	9
Yellow sand 2	10	Gray and yellow sand 2 1	1
Salmon-colored sand 2	12	Gray and red sand 2 1	3
Yellow sand 1	13	Gray and yellow sand 6 1	9
Yellow gravelly sand 1	14	Gray and yellow sandy clay 6 2	5
Yellow sand and clay 3	17	Struck water at 8 feet.	
Gray and yellow sendy clay 1	18	Water level, 5.4 feet below top of	
Stiff purple clay 4	22	ground, 3 hours after hole completed.	
Struck water at 14 feet.		Water semple collected. Apr. 10, 1936.	
Water sample collected. June 1, 193	6.		
Well 531		Well 536	
Hillside, Thos. H. Lee tract near O	let-	Gentle slope, W. C. Gorman tract near Oakwood road, 2-3/4 miles southeast of	
wood roed, 3-3/4 miles southwest of		Butler.	
Butler.			1
Brown surface sand	1	1	1 4
Red sand and clay 4	5		4 5
Orange send and clay 4	9		8
Yellow silty sand 1	10		9
Orange clay and sand 1	11	Gray clay and sand 1 10	
Orange and white silty sand 4	15	Orange clay and sand 4	
White sand 1	16	Yellow clay and sand 2 10	
Yellow sand 3	19	Purple sandy soapstone 1 1'	
Iron ore gravel 3	22	Yellow clay and sand 2 19	
Rock	22	Purple and yellow sandy clay 5 24	
No water sample collected. June 3,		Brown sand and soapstone 1 2	
		Green and brown sand 5 30	
	t I	Struck water at 28 feet.	-
	į	Water sample collected. June 2, 1936.	
	t t		

							-58-	•	
Logs	of	W.	Ρ.	Α.	test	wells	in	${\tt Freestone}$	CountyContinued
							_		

Logs of W. P. A	. tes		-58- in Freestone CountyContinued	
	kness eet)	Depth (feet)	Thickness (feet)	Depth (feet)
		(1000)	-	(1000)
Gentle globe $P = \frac{Well 539}{P}$			Well 549Continued	
Gentle slope, B. B. Kimbell	tract	near	Yellow and white silty sand 4	13
Oakwood road, 3 miles south Yellow clay and sand	-	-	Gray and yellow sand 3	16
Yellow sandy clay	1 2	' 7	Purple sandy clay 1 Brown and vellow sand 2	17
Red and white sandy clay	2 3	3	Jertoni ona jerton benia	19
Yellow and white slick clay	3 4	6 10	Struck water at 13 feet.	70
Yellow and white clay and	4	10	Water sample collected. June 3, 19	30.
sand	3	13	Well 550	
Stiff brown clay	4	17	Hillside, J. W. Anders tract near C	ob-
Stiff black clay	7	24	wood road, 5 miles southeast of But	
Struck water at 12 feet.		₩÷	Yellow clay and sand 2	2
<b>MAT</b> 4	e 3,	1936.	Red and white sandy clay 4	6
			Yellow and white sendy clay 4	10
Well 542			Yellow sand 1	11
Hilltop, Ben Cannon tract ne	ar La	nelv	Red and yellow sandy clay 3	14
road, 4 miles south of Butle	r.	U	Yellow sand 2	16
Yellow surface sand	1	1	Red clay 1	17
Orange clay and sand	2	3	Gray clay and sand 1	18
Red clay and sand	3	6	Gray and yellow sandy clay 2	20
Red and white sandy clay	2	8	Orange colored sand 2	22
Red packed sand	2	10	Yellow sandy clay 1	23
Hard packed sand		10	Gray and yellow sand 3	26
No water sample collected. J	une 3	, 1936.	White sand 1	27
			Gray and yellow sand 3	30
Well 545			Yellow quicksand 2	32
Hilltop, E. Guess tract near	Oakwo	bod	Quicksand	32
road, $4\frac{1}{4}$ miles southeast of	Butle:		Struck water at 30 feet.	
Yellow surface sand	2	2	No water sample collected. June 30,	1936.
Yellow clay and sand	1	3		
Red and yellow sandy clay	1	4	Well 551	
Red and white sandy clay	2	6	Flat, Childress and Challacombe tra	
Yellow silty sand	2	8	near Highway 7, $4\frac{1}{4}$ miles east of Bu	
Red and yellow silty sand Orange colored sand	2	10	Stiff black clay 4	4
Yellow sand	1 3	11	Stiff green clay	5
Orange colored sand	0 3	14 17	Stiff yellow clay 5 Stiff brown and gray clay 6	10
Brown gravelly sand	1	18	Stiff brown and gray clay 6 Stiff yellow and gray clay 3	16 19
White silty sand	2	20	Yellow and gray sandy clay 2	21
Gray and yellow sand	5	25	Stiff brown and gray clay	22
White clay and sand	ĩ	26	Yellow sand 4	26
Gray sand	ī	27	Orange sand 1	27
Yellow sand	2	29	Damp yellow sand 2	29
Brown and gray sandy clay	1	30	Grey and yellow sand 3	32
Yellow sand	1	31	Quicksand	32
Brown and gray sand	1	32	Struck water at 32 feet.	02
Brown sand	5	37	No water sample collected. June 30,	1936.
Struck water at 35 feet.		ł	· · · · · · · · · · · · · · · · · · ·	
Water sample collected. June	2, 19	936.	Well 552 Hillside, J. H. Jackson tract near	High-
Well 549		:	way 7, 5 miles east of Butler.	
Hillside, J. L. Crawford tra			Stiff yellow clay 3	3
wood road, 5 <sup>±</sup> / <sub>2</sub> miles southeas	t of I	Butler.	Gray and yellow sandy clay 3	6
Brown surface sand	1	1	Gray and yellow sand 3	9
Red and yellow sandy clay	3	4	Yellow sand 2	11
Red and yellow sand	2	6	Gray and yellow sand 2	13
Red and white clay and sand	3	9	(Continued on next page)	

-59-Logs of W. P. A. test wells in Freestone County--Continued

Thickness DepthThickness DepthWell 552Continued1Thickness DepthVellow send1Struck water st 20 feet.Struck water st 20 feet.Well 655Well 655Thickness 20 feet.Well 655Well 665Well 655Well 655Well 665Well 666Thickness 20 feet.Well 600Well 600 <th colspan<="" th=""><th>Thia</th><th>rnoge</th><th>Denth</th><th>Thickness</th><th>Denth</th></th>	<th>Thia</th> <th>rnoge</th> <th>Denth</th> <th>Thickness</th> <th>Denth</th>	Thia	rnoge	Denth	Thickness	Denth
Well 652ContinuedYellow sand114Yellow sand214Gray and yellow sand216Gray sand216Gray sand216Struck water at 20 feet.21No water sample collected, Apr. 10, 1936.Gray and yellow salty sand1No water sample collected, Apr. 10, 1936.Gray and yellow salty sand1No water sample collected, Apr. 10, 1936.Gray and yellow salty sand1No water sample collected, Apr. 10, 1936.Struck water at 30 feet.No water sample collected, Apr. 25, 1936Prom surface sand26Hillside, Framilin Glazenor tract nearYellow sand17Highway 7, 6 miles northeast of Dew.Yellow sand11Struck water at 12 feet.1Yellow sand end clay211Yellow sand end clay211Yellow sand end clay111Yellow sand end clay211Yellow sand end clay111Pred sandy clay451Yellow sand end clay11Yellow sand end clay11Yellow sand end clay11Yellow sand end clay11Yellow sand216Gray sandy clay412Yellow sand end clay11Yellow sand216Yellow sand216Yellow sand216 </td <td></td> <td></td> <td></td> <td></td> <td></td>						
Yellow send114Yellow silty send214Cray and yellow send216Gray silty send216Gray and yellow send21Brown silty send117Struck water at 20 feet.21Gray and yellow send121No meter sample collacted, Apr. 10, 1936.Gray and yellow send121No meter sample collacted, Apr. 10, 1936.Well S53Gray and yellow send325River bottoms, 0, L. Gragg tract, 1,000Feet south of Highway 7 junction at RiverNew set at 30 feet.New set at 30 feet.Prown surface send26Hillside, Franklin Glazener tract nearNew set at 30 feet.Prown surface send26Hillside, Franklin Glazener tract near1Yellow and white send313Stiff group lay28Yellow and white send11Stiff group lay36Yellow and white send11Stiff group lay28Yellow and white send11Fine white sand11Yellow and27Yellow and end clay514Gray sandy clay4514Gray andy clay1Prown sand and clay1111Red sendy clay4514Gray andy clay2Yellow sand11111Red sendy clay4514Gray andy clay1Yellow sand2 <td></td> <td></td> <td></td> <td>Well 608Continued</td> <td></td>				Well 608Continued		
Gray and yellow send216Gray saily send216Gray sand21Brown silty send117Quicksand21Brown silty send121Struck water at 20 feet.Struck water at 30 feet.323News to tome, 0. L. Gregg tract, 1,000Black sand snd lighte131River bottome, 0. L. Gregg tract, 1,000Struck water at 30 feet.No water sample collected. Apr. 25, 1936Form sufface send44Hillside, Franklin Glazener tract nearRed send17Hillside, Franklin Glazener tract nearRed send11Yellow wide glay1Yellow water at 12 feet.No water sample collected. Apr. 10, 1936.Stiff greg clay2Struck water at 12 feet.Stiff greg clay28No water sample collected. Apr. 10, 1936.Grey sand clay21Gentle slope, Mrs. Surta Davis tract, 52Fray sandy clay21Stow and and clay45Fine white sand11Red sendy clay45Fine wilte cand120Yellow sand and clay45Fine wilte cand120Yellow sand and clay45Fine wilte cand120Yellow sand and clay45Fine wilte cand120Yellow sand and so spetone11Fine wilte cand120Yellow sand and so spetone11Fine wilte cand120		-	14		. 14	
Grey sand Quicksand521Brown slity send111Struck water at 20 feet.21Grey send yellow slity send219Struck water at 20 feet.Grey send323No weter sample collected. Apr. 10, 1936.Wellow send730River bottoms, O. L. Gregg tract, 1,000Feet south of Highway 7 junction at Hiver rest, 6% miles eased44Well 612Brown surface sand26Hillside, Fracklin Glazener tract near Highway 7, 8 miles northeest of Dew. Yellow send11Yellow and white send313Stiff yellow clay28Struck water at 12 feet.Yellow send end olay514Gentle slope, Mre. Burts Davis treet, 5% Wellow send and clay45Fine yellow clay end send end olay1Gentle slope, Mre. Burts11111Red sendy clay45Fine yellow send end lay11Yellow send11111Red sendy clay45Fine yellow send11Red sendy clay41310Fine yellow send120Grey soceptono114Gray sendy clay216Fillow sand111112Yellow send216Fine yellow send120Yellow send11111Red sendy clay336Stiff red clay1<					1	
Quicksand21Gray and yellow silty send210No weter stample collected. Apr. 10, 1936.Brown silty send3Neal 555Neal 555River bottoms, O. L. Gregg tract, 1,000Bisck send and lighte1Piets coll of Highway 7 junction at RiverNo water sample collected. Apr. 25, 1936Brown surface send44Red elay and send26Hilbide, Franklin Glaramer tract nearRed and1Yellow send white send3Yellow send2Yellow send yclay1Yellow send yclay1Yellow send yclay2Struck water at 12 feet.Striff yellow olayNew ater as nple collected. Apr. 10, 1936.Neddish-yellow send1Red sendy clay4Yellow send2Gentle slope, Mrs. Burts Davis treot, SgRed sendy clay4Yellow send2Yellow send1Yellow send1Yellow send2Yellow send2Yellow send2Yellow send1Yellow send2Yellow send2Yellow send2Yellow send3Yellow send1 <td></td> <td></td> <td>1</td> <td></td> <td></td>			1			
Struck water at 20 feet. No weter sample collected. Apr. 10, 1936. Well 563 Well 563 New bottoms, O. L. Gregg tract, 1,000 feet south of Highway 7 juntion at River crest, 65 miles east of Butler. Prown surface send 4 4 def ad gend send 2 6 Red send 1 7 Yellow sand 2 6 Red send 1 7 Yellow sand white send 3 10 Struck water at 30 feet. No water sample collected. Apr. 25, 1936 Struck water at 30 feet. No water sample collected. Apr. 25, 1936 Struck water at 30 feet. No water sample collected. Apr. 25, 1936 Struck water at 30 feet. No water sample collected. Apr. 25, 1936 Struck water at 30 feet. No water sample collected. Apr. 25, 1936 Struck water at 30 feet. No water sample collected. Apr. 25, 1936 Struck water at 30 feet. No water sample collected. Apr. 10, 1936. No water sample collected. Apr. 10, 1936. Neell 600 Gentle slope, Mrs. Burta Davis tract, 55 Red send clay 4 5 Yellow sand and clay 2 7 Yellow sand and clay 2 9 Yellow sand and seps tone 1 17 Rok water sample collected. Mar. 12, 1936. Met slope, J. R. 6 Gain tract near Highway 75, 7 miles north of Dew. Stiff red clay 8 3 Stiff red clay 7 Stiff red clay 8 3 Stiff red clay 7 Stiff red c		•			1	
No weter sample collected. Apr. 10, 1936.Gray sendS25Well 553Yellow send730River bottoms, 0. L. Gregg tract, 1,000Block sand and lighte1River bottoms, 0. L. Gregg tract, 1,000Block sand and lighte1Red send44Red send17Hiltside, Frenklin Glazener tract nearRed send17Yellow sand26Hiltside, Frenklin Glazener tract nearYellow and white send310Yellow quicksand215Struk water at 12 feet.Stiff yellow clay2Kowater sample collected, Apr. 10, 1936.Gray sandy clay2Well 600Gray sandy clay2Gentle slope, Mrs. Burta Davis treet, 5gStiff grey clay2Red sand clay45How sand and clay2Yellow sand and clay4Yellow sand and clay4Yellow sand and clay4Yellow sand and sopetone1Yellow sand and sop						
Well 553Solution in the series of the south of Highway 7 junction at River is angle collected. Apr. 25, 1936Priver bottoms, O. L. Gregg tract, 1,000Stuck water at 30 feet.No water sample collected. Apr. 25, 1936Free south of Highway 7 junction at RiverNo water sample collected. Apr. 25, 1936Prown surface send44Hilbeida, Frankfih Glazener truct nearHighway 7, 8 miles northeast of Dew.Yellow send at 1 2 feet.No water at 12 feet.No water sample collected. Apr. 10, 1936.No water sample collected. Apr. 10, 1936.Gentle slope, Mrs. Burts Davis tract, $5\frac{1}{2}$ File wand and clay5File wand and olay5Yellow sand and olay5Yellow sand and olay1Yellow sand and seep stone17No water sample collected. Mar. 12, 1936.Yellow sand and seep stone17No water sample collected. Mar. 12, 1936.Yellow sand and seep stone17No water sample collected. Mar. 12, 1936.Yellow sand and seep stone17No water sample collected. Mar. 26, 1936.Yellow sand and seep stone17Yellow sand1Yellow sand1		r. 10	1936		1	
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River bottoms, O. L. Gregg tract, 1,000 feet south of Highway 7 junction st River crest, 6g miles most of Butler. Brown surface sendStruck water at 30 feet. No water sample collected. Apr. 25, 1936 No water sample collected. Apr. 25, 1936 No water sample collected. Apr. 25, 1936 No water sample collected. Apr. 4 Hileide, Franklin Olazemer tract near Highway 7, 8 miles northwast of Dew. Yellow sand and clayWell 612 Hileide, Franklin Olazemer tract near Well 600 Struck water at 12 feet. Well 600 Gentle slope, Mrs. Burta Davis Heldow send and clayWell colspan="2">Wellow sand clay Struck water at 12 feet. Well 600 Gentle slope, Mrs. Burta Davis Heldow send and clayWell colspan="2">No water sample collected. Apr. 10, 1936. Gray sandy clay Gray sandy clay Yellow sand and clay Yellow sand and clay Yellow sand and clay Yellow sand and clay Yellow sand and clay Yellow sand and clay Yellow sand and clay Yellow sand and clay Yellow sand and sopp tone No water sample collected. Mar. 12, 1936.Well 615 Hilside, Siles Dockery tract, 1 mile north of Highway 7, 8g miles northeast of Dew. Stiff red clay Stiff red clay Yellow sand Yellow sand Ye	Well 553					
fect south of Highway 7 junction et River frest, 65 miles east of Butler. Brown surface send 4 4 Red elay and sand 2 6 Red send 1 7 Yellow send 3 10 Yellow send 3 10 Yellow send 3 10 Yellow send 3 10 Yellow send 1 7 Yellow send 2 15 Yellow send 2 15 Yellow sendy clay 2 8 Stiff gray clay 3 6 Gentle slope, Mrs. Burta Davis treet, 5 $\frac{1}{22}$ Weil 600 Gentle slope, Mrs. Burta Davis treet, 5 $\frac{1}{22}$ Weils northwest of Dew. Yellow send and clay 2 16 Fine white send 1 19 Red sendy clay 4 5 Fine white send 1 19 Red sendy clay 4 2 Yellow send and clay 2 7 Yellow send and clay 2 7 Yellow send and clay 4 25 Yellow send and clay 4 25 Yellow send and sep stone 17 Fow ker sample collected. Mar. 12, 1936. Gentle slope, J. R. B. Cain tract near Highway 75, 7 miles north of Dew. Stiff red clay 7 Yell w send 4 1 18 Frew send 1 29 Yellow send and sep stone 17 Fow ker sample collected. Mar. 12, 1936. Gentle slope, J. R. B. Cain tract near Highway 75, 7 miles north of Dew. Stiff red clay 1 1 Yellow send 1 18 Brown send 1 19 Yellow send 1 18 Brown send 1 18 Brown send 1 19 Yellow send 1 18 Brown send 1 19 Yellow send 1 19 Yellow send 1 10 Weil 605 Gentle slope, W. L. Moody tract, R. Gaine Survey, 7 miles north of Dew. Stiff red clay 2 14 Yellow send 3 27 New ter sample collected. Mar. 26, 1936. Weil 608 Gentle slope, W. L. Moody tract, R. Gaine Survey, 7 miles north of Dew. Stiff red sandy clay 2 5 Gentle slope, W. L. Moody tract, R. Gaine Survey, 7 miles north of Dew. Stiff red sandy clay 3 6 Red and yellow send and 3 27 No water sample collected. Mar. 26, 1936. Weilt 617 Hillside, A. Mendry tract near Turling- Weilt 617 Hilleide		act.	1.000			
crest, 6g miles east of Butler.Brown surface send44Red clay end sand26Red send17Hilbade, Franklin Glazener trect nearRed send17Yellow sandy clay11Yellow sendy clay2Yellow sandy clay2Yellow sandy clay2Yellow sand and lay2Yellow sand red clay5Yellow sand red clay5Yellow sand red clay5Yellow sand red clay6Yellow sand and clay4Yellow sand and scepstone1Yellow sand and scepstone1Yellow sand and scepstone1Yellow sand2Yellow sand1Yellow sand1Y	feet south of Highway 7 junct	ion a	t River		25, 1936	
Brown surface send4441Tell 612Red end17Hilside, Franklin Glazener tract nearRed end17Yellow sand310Yellow sand volay23Yellow and white send313Stiff grelow sandy clay28No water sample collected. Apr. 10, 1936.Gray sandy clay1Well 600Gray sand sand clay5Gentle slope, Mrs. BurtaDavis tract, $5\frac{1}{2}$ Gray sand sand clay1Brown sand11Frine white sand1Red sandy clay45Frine yellow sand and clay1Prown sand11Frine white sand1Red sandy clay45Frine yellow sand and clay1Yellow sand and clay216Frine yellow sand and clay1Yellow sand and clay413Blue shale2Yellow sand and sceptone117No water sample collected. Mar. 12, 1936.Yellow sand sad sceptone117No water sample collected. Mar. 12, 1936.No water sample collected. Apr. 7, 1936Yellow sand116Stiff red clay37Ked and gray sand11Yellow sand11Yellow sand11Yellow sand11Yellow sand11Yellow sand11Yellow sand11Yellow sand <td< td=""><td></td><td></td><td></td><td> </td><td></td></td<>						
Red clay and sand26Hillside, Frentlin Clarmer tract nearRed send17Yellow sand310Yellow and white send313Yellow and white send313Yellow sand and whate send215Yellow sand and whate semple collected. Apr. 10, 1936.Yellow sand yelay3No water sample collected. Apr. 10, 1936.Stiff grey olay2Menter sample collected. Apr. 10, 1936.Gray sandy clay19Yellow sand and clay21618Gentle slope, Mrs. Burts Davis tract, 52Gray sandy clay216Brown send11Fine white sand119Red sandy clay421612Yellow send and clay27Yellow send and clay120Yellow sand and clay413Elue shale228Yellow sand and sorp stone114Hilside, Silas Dookery tract, 1 mile north of Highway 7, 82 miles northeest26Yellow sand114No water sample collected. Apr. 7, 193614Yellow sand512Mouster sample collected. Apr. 7, 193614Yellow sand1141514Yellow sand1141514Yellow sand1141514Yellow sand1141514Yellow sand1141514Yellow sand1141514 <td></td> <td>_</td> <td>, 4</td> <td>Well 612</td> <td></td>		_	, 4	Well 612		
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Yellow and white send31315Stiff yellow clay23Yellow quicksand215Yellow sandy clay36Struck water at 12 feet.Stiff grey clay28Mo water sample collected. Apr. 10, 1936.Well 600Gray sandy clay19Gentle slope, Mrs. Burta Davis treet, 51/2Gray sandy clay216Gentle slope, Mrs. Burta Davis treet, 51/2Gray sandy clay216Brown send1111Red sandy clay45Fine white sand110Red sandy clay45Fine white sand120Yellow sand and clay29Yellow sand and clay121Yellow sand and clay413Blue shale328Gray scapstone114Highite129Yellow sand and scepstone117Well 60516Gentle slope, J. R. B. Cain tract nearStiff red olay33Red sndy clay33311Stiff red olay33311Stiff red olay1111Red and gray sandy clay211Yellow sand11810Stiff red clay1Red and yellow clay111Stiff red olay111Stiff red olay111Stiff red olay211<	Yellow sand	3	1		-	
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Coarse gray and yellow sand 1 10 Red and white sandy clay 1 7	Coarse brown sand	1	9	clay 3	6	
			10	÷	7	
	Coarse gray sand	2	12	(Continued on next page)		

-60-Logs of W. P. A. test wells in Freestone County--Continued

	Mhi elemente	Denth	mbs -	Java a a	Desth
	Thickness (feet)	(feet)	-	ceet)	Depth (feet)
		(1660)			(1000)
Well 617Co	ntinued	_	Well 621Continue		
White sandy clay	1	8	Red and gray sand	4	22
Red and white sendy clay	y 2	10	Yellow sand	2	24
Red and white sand	1	11	White sand	1	25
Red gravel and clay	1	12	Red and white sand	4	29
Stiff gray clay Stiff yellow clay	1 2	13   15	Struck water at 29 feet.	~ 0	1076
Stiff gray clay	2. 4	19	No water sample collected. Ap	<u>)r. 9,</u>	1990
Stiff purple clay	1	20	Well 623		
Black spongy lignite	2	22	Flat, Joe McAdams tract near	Hichw	ev 7.
Purple sandy clay	5	27	8 miles northeast of Dew.	TTE BILL	ау <b>у</b>
Struck water at 22 feet		1	Brown surface sand	1	' <b>1</b>
Water sample collected.		1936.	Red sand and clay	2	3
		10000	Stiff yellow clay	2	5
Well 61	9		Yellow sandy clay	1	6
Hillside, N. L. Richard	son tract :	near	Gray and yellow sand and	-	-
Turlington road, 9 mile			clay	4	10
Dew.			Coarse gray and yellow sand	2	12
Yellow sandy clay	1	1	Coarse brown and yellow sand	1	13
Red sandy clay	1	2	Gray clay and sand	2	15
Stiff red clay	2	4	Yellow silty sand	1	16
Stiff yellow clay	1	5	Fine gray sand	3	19
Gray sandy clay	1	6	Fine brown sand	1	20
Yellow sandy clay	1	7	Fine gray sand	8	28
Gray sandy clay	1	8	Gray and yellow clay and		
Yellow sand and clay	1	9	sand	1	29
Gray sandy clay	ī	10	No water sample collected. Ap	or. 7.	
Yellow sand and clay	- 3	13			
Yellow silty sand	5	18	Well 628		
Gray silty sand	1	19	Hilltop, E. and O. Emmons tra	ct. 1	
Yellow silty sand	10	29	miles south of Highway 7, 6 m		
No water sample collect	ed. Apr. 2	7, 1936	east of Dew.		,
			Stiff red clay	2	2
Well 62	0		Stiff yellow clay	2	4
Side of draw, H. H. Woo	Idridge tr	act	Yellow sandy clay	1	5
near Humble Pump Station	n road, 10	miles	Yellow sand and clay	3	8
northeast of Dew.		*	Gray silty send	5	13
Brown gravelly sand	4	4	Yellow silty sand	3	16
Red clay and sand	3	7	Gray silty sand	6	22
Red gravelly sand	1	8	Blue sandy clay	1	23
Brown clay and sand	2	10	Black spongy lignite	1	24
Yellow silty sand	2	12	Brown clay and packed sand	2	26
Yellow sand	1	13	No water sample collected. Ap	or. 29	, 1.936
Gray and yellow sand	1	14			
Yellow sand rock		14	<u>Well 632</u>		
No water sample collect	ed. May 4,	1936	Gentle slope, Leonard Emmons		near
	_		Highway 7, 7 <sup>±</sup> / <sub>2</sub> miles north of	_ '	' a
Well 62			Yellow surface sand	2	2
Hilltop, Mrs. S. A. Rob			Red and yellow sandy clay	2	4
Sugar Hill 8호 miles nor	_		'Red and yellow clay and		
Brown surface sand	2	2	sand	2	6
Red clay and sand	4	6	Gray and yellow sand	3	9
Fine red sand	2	8	Gray sand	2	11
Fine yellow sand	4	12	Yellow packed sand	5	16
White silty sand	3	15	Gray clay and sand	4	20
Red and yellow sand	2	17	Brown clay and sand	1	21
Yellow sand	1	18	Gray clay and sand	1	22
			(Continued on next pa	ige) i	

-61-Logs of W. P. A. test wells in Freestone County--Continued

(feet) (feet)Well 632Well 632Well 634Grey clay and sand26Brown clay and sand27No water sample collected. Apr. 7, 1936.Red and white sandy clay1Well 634Red and white sandy clay2Gentle slope, $V$ , $K$ . Riley Estate, B.Red and white sandy clay2Ioltzolaw Survey, 5 miles north of Dew.Red and white sandy clay1Yellow slity sand11Red and white sandy clay56Gray and yellow slity sand2Yellow slity sand5Yellow slity sand1Carse yellow sandy coaptone2Yellow slity sand22Gray sandy soaptone2Carse yellow sand27Gray and packed sand27No water sample collected. Apr. 25, 1936Weil 636Weil 636Billside, Sin Chavers tract near Highway3Sincise north of Dew.Frown sandy clay2Red sandy clay2Ked sandy clay2Ked sandy clay2Ked sandy clay3Sincise north of Dew.Frown sandy clay1Red sandy clay1Keil 636Weil 636Hillside, Sin Chavers tract near HighwaySincise north of Dew.Red sandy clay1Red sandy clay1Keil 636Keil 637Keil 638Hillside, Shown safter hole completed.Keil 639<	Thickness Depth	Thickness Depth
Yellow clay and sand123Creek bottoms, Ben Baker tract, J. M.Gray olay and sand326Hellmark Survey, 35 miles north of Dew.No water semple collected. Apr. 7, 1936.Red sandy clay11No water semple collected. Apr. 7, 1936.Red sandy clay11Med and white sandy clay111Red and white sandy clay23Feel and white sandy clay11Red and white sandy clay11Red and white sandy clay56Gray and yellow silty sand39Yellow silty sand514Gray sandy soepstone216Gray sandy soepstone216Gray sandy soepstone216Gray packed sand27Hillside, Sim Chavers tract near Highway75, 5 miles north of Dew.Well 636127Hillside, Sim Chavers tract near Highway175, 5 miles north of Dew.175, 5 miles north of Dew.18 rown sandy clay375, 5 miles north of Dew.18 rown sandy clay116116 red ang ray sand275, 5 miles north of Dew.176 rey water sand176 rey and yellow sandy clay177, 15 miles north of Dew.178 rey water sand179 rey water sand170 rey water sand2818191 <td>, , , -</td> <td></td>	, , , -	
Yellow clay and sand123Creek bottoms, Ben Baker tract, J. M.Gray olay and sand326Hellmark Survey, 35 miles north of Dew.No water semple collected. Apr. 7, 1936.Red sandy clay11No water semple collected. Apr. 7, 1936.Red sandy clay11Med and white sandy clay111Red and white sandy clay23Feel and white sandy clay11Red and white sandy clay11Red and white sandy clay56Gray and yellow silty sand39Yellow silty sand514Gray sandy soepstone216Gray sandy soepstone216Gray sandy soepstone216Gray packed sand27Hillside, Sim Chavers tract near Highway75, 5 miles north of Dew.Well 636127Hillside, Sim Chavers tract near Highway175, 5 miles north of Dew.175, 5 miles north of Dew.18 rown sandy clay375, 5 miles north of Dew.18 rown sandy clay116116 red ang ray sand275, 5 miles north of Dew.176 rey water sand176 rey and yellow sandy clay177, 15 miles north of Dew.178 rey water sand179 rey water sand170 rey water sand2818191 <td>Well 632Continued</td> <td>Well 643</td>	Well 632Continued	Well 643
Grey clay and sand326Hellmark Survey, $3\frac{1}{2}$ miles north of Dew.No water sample collected. Apr. 7, 1936.Red sandy clay11No water sample collected. Apr. 7, 1936.Red and white sendy clay23Gentle slope, ".".". Riley Estete, B.Brown silty sand36Holtzelaw Survey, 5 miles north of Dew.Coarse yellow silty sand17Pellow surface sand1116Coray end yellow silty sand56Coarse pray sand2Carse sandy clay sonpstone216Coarse gray sand10Carse sady sonpstone216Coarse gray sand10Carse yellow sandy sonpstone216Struck water at 15 feet.Carse yellow sandy sonpstone216Struck water at 16 feet.Carse yellow sand325Hillside, side of Highway 75, 1 $\frac{1}{2}$ milesCarse yellow sand2716Struck water at 16 feet.Mell 63627Hillside, side of Highway 75, 1 $\frac{1}{2}$ milesWell 63627Struck water struct near Highway1Brown sandy clay22Red sandy clay35Brown sandy clay14Grey water sand11Struck water struct near Highway1Yellow sandy clay11Yellow sandy clay11Yellow sandy clay11Yellow sandy clay11Yellow sandy clay11		
Brown clay and send329Red sandy clay11No water sample collected. Apr. 7, 1936.Red and white sendy clay13Gentle slope, V. W. Riley Estate, B.Red and white sendy clay36Holtzclaw survey, 5 miles north of Dew.11Vellow surface send11Red and white sandy clay56Coarse prown silty sand210Vellow silty sand514Gray songstone216Coarse gray sand422Coarse gray sand422Coarse ypilow santy songstone216Gray sendy songstone127Hird gacked sand271No water sample collected, Apr. 25, 193610Well 636127Hillside, Sim Chavers tract near Highway75, 5 miles north of Dew.To, 5 miles north of pew.1To, 5 miles north of pew.1Torsy sandy clay2Red and gray sand2Red and gray sand1Gray sandy clay3Torsy sandy clay1Gray song vand1Gray song vand1Torsy sandy clay1Torsy sandy clay1		
No water sample collected. Apr. 7, 1936.Red and white sendy clay23Well 634Brown silty sand16Gentle slope, ". W. Riley Estate, B.Brown silty sand17Holtzolaw Survey, S miles north of Dew.Brown silty sand210Yellow suffece sand111Red end white sendy clay561026Yellow silty sand5141026Gray and yellow silty sand5141026Gray sandy scapstone2161626Carse yellow sand3221616Carse yellow sand3221617Gray and yellow solty sand4221616Carse yellow sand3251111Gray sandy scapstone1261616Gray andy scapstone1261616Gray andy scapstone1271718Well 6361271214Hillside, Sim Chavers tract near Highway75, 51211Fed clay and sand161212Gray and yellow sandy clay2222Brown sandy clay35512Hillside, Shurse after hole completed.11616Red and yelay and sand11212Fed clay and sand11212Fed clay and sand112Fed		+ + =
Brown silty sand36Gentle slope, r. W. Riley Estate, B.ioitzclaw Survey, 5 miles north of Dew.Vellow surface send11Corres eyrown and yellow sand210Corres eyrown and yellow sand210Corres eyrown and yellow sand210Corres eyrown and yellow sand210Corres eyrown and yellow sand12Corres eyrown sand410Corres eyrown sand42Corres eyrown sand12Corres eyrown sand42Corres eyrown sand42Corres eyrown sand2Corres eyrown sand22Meil 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636Well 636		

# -62-Logs of W. P. A. test wells in Freestone County--Continued

ጥጉ-	aknoss	Donth	Thickness Depth
	ickness (feet)	(feet)	(feet) (feet)
Well 652Continu			Well 658Continued
Gray clay and sand	1	6	Coarse white sand 2 32
Stiff brown clay	1	7	Iron ore gravel 2 34
Stiff purple clay	ī	8	No water sample collected. Apr. 29, 1936
Gray clay and sand	3	11	
Coarse yellow sand	7	18	Well 659
Red sand rock		18	Hillside, E. E. Williford tract, 42 miles
No water sample collected. I	Mer. 27		northeast of Dew
			Coarse yellow sand 4 4
Well 656		,	Red and white silty sand 1 5
Hillside, Mrs. Black tract,	J. M. 1	Hall-	Red and white sandy clay 3 8
mark Survey, 1-3/4 miles not	rtheast	of	Coarse red sand 2 10
Dew.			I Iron ore rock 10
Yellow surface sand	1	1	No water sample collected. Apr. 29, 1936
Yellow sandy clay	1	2	
Yellow clay and sand	4	6	Well 660
Iron ore gravel	l	7	Hillside, E. Millican tract near High-
Coarse yellow sand	8	15	way 7, 9 miles northeast of Dew.
Coarse white sand	5	20	Yellow surface sand 1 1
Coarse brown sand	2	22	<sup>Y</sup> ellow clay and sand 5 6
Brown packed sand	2	24	Red and yellow clay and sand 2 8
Hard packed sand		24	Red and white soapstone 5 11
No water sample collected.	Apr. 25	, 1936	Gray soapstone 2 13
			Iron ore rock 13
Well 657			No water sample collected. Apr. 9, 1936
Side of draw, M. A. Black to			
Lanely road, 1-3/4 miles not	rtheast	of	Well 661
Dew.			Gentle slope, P. D. C. Ball Estate, $l_{\Xi}^{\pm}$
Yellow surface sand	3	3	miles south of Highway 7, 8 miles north-
Red sandy clay	2	5	east of Dew.
Red and white sendy clay	1	6	Coarse yellow sand 8 8
Coarse yellow sand	4	10	Coarse orange sand 5 13
Coarse brown sand	1	11	Coarse yellow and white sand 2 15
Coarse white sand	3	14	Orange packed sand 3 18
Coarse yellow sand	7	21	Red packed sand 6 24
Coarse white sand	4	25	Coarse salmon colored sand 5 29
Coarse yellow sand	7	32	Struck water (seep) at 7 feet.
Gray sandy soapstone	1	33	Struck water at 25 feet.
No water sample collected.	apr. 20	1990	No water sample collected. May 6, 1936
Well 658			<u>Well 664</u>
Gentle slope, B. M. Burgher		3	Hillside, G. J. Weaver tract, 3 <sup>±</sup> miles
miles south of Highway 7, 5;	5 miles		south of Highway 7, 7 miles northeast
northeast of Dew.	_		of Dew.
Stiff red clay	1	· 1	Yellow surface sand 8 8
Red and yellow clay	2	3	Coarse yellow white sand 1 9
Stiff yellow clay	1	4	Coarse brown and white sand 6 15
Coarse yellow sand	5	9	Brown sand 12 27
Coarse gray sand	2	11	Coarse quicksand 27
Coarse gray and yellow sand	1	12	No water sample collected. May 6, 1936.
Coarse gray sand	1	13	
Gray and yellow sandy clay	4	17	Well 666
Gray clay and sand	1	18	Hillside, L. R. Boyd tract near Turling-
Coarse gray and yellow sand	4	22	ton road, 4-3/4 miles east of Dew.
Coarse yellow sand	2	24	Brown surface sand 2 2
Coarse gray sand	4	28	Brown sandy clay 2 4
Coarse gray and yellow sand	2	30	Coarse yellow sand 10 14
			(Continued on next page)

-63-Logs of W. P. A. test wells in Freestone County--Continued

		<b>111 * . 1</b>	D 11
Thickness (feet)	(feet)	Thickness (feet)	Deptn (feet)
	(1000)	, ۱ ۱	(1000)
Well 666Continued	•	Well 673Continued	0
Coarse white sand 14	28	Fine yellow sand	8
Coarse yellow and white sand 1	29	Fine orange sand 1	, 9 ]0
No water sample collected. Apr. 29	, 1936	Red sandy clay	10
Well 669		Yellow sandy clay 1 Orange sandy clay 2	11   13
Side of draw, A. C. Anderson tract	N-0.4	,	17
Lanely road, $3\frac{1}{4}$ miles east of Dew.,	near	Fine brown and yellow sand 4 Brown gravelly sand 1	1 18
Coarse yellow sand 1	1	Coarse white sand 13	31
Coarse orange sand 1	2	Coarse yellow sand 3	34
Red clay and sand 1	3	Coarse yellow and white sand 5	39
Red and white sandy clay 1	4	Coarse orange sand	40
Red sandy clay 1	5	Coarse yellow sand 5	45
Yellow sandy clay 4	9	No water sample collected. May 18	
Purple sandy clay 2	11	No water sample corrected, May 10	, 1000
Iron ore rock	11	Well 674	
No water sample collected. Apr. 29		Hillside, O. W. Killian tract nea	**
no water sample corrected, Apr. 20		Buffalo road, 4-3/4 miles east of	
Well 671	1	Yellow gravel and sand 1	1
Hillside, M. E. Gehrels tract near	014	Red clay and sand 2	3
Buffalo road, 3 miles east of Dew.	UIU	<sup>4</sup> Purple clay and sand 1	4
Coarse yellow sand 1	1	Yellow clay and sand 7	11
Yellow sandy clay 1	2	Fine salmon colored sand	12
Stiff yellow clay 1	ະ 3	Yellow silty sand 3	15
Gray and yellow sandy clay 5	8	Yellow and white silty sand 2	17
Gray clay and sand 2	10	Red silty sand 1	18
Brown and gray sandy clay 4	14	Salmon colored silty sand	10
Gray joint clay 1	15	Yellow and white silty sand 3	22
Black soapstone 1	16	White clay and sand 2	24
Gray sandy clay 5	21	Yellow clay and sand 1	25
Hard red sand rock	21	Yellow silty sand 4	29
No water sample collected. May 18,		White clay and sand 1	30
ind marter beingit doule any lo	1000	Yellow silty sand 1	31
Well 672		White clay and sand 1	32
Hillside, G. Parrish tract near Hig	rhwa <b>v</b>	Struck water (seep) at 18 feet.	02
75, 2 miles south of Dew.	J	Struck water at 20 feet.	
Yellow surface sand 1	1	No water sample collected. Apr. 2	9. 1936
Red sandy clay 2	3		
Red and yellow sandy clay 2	5	Well 678	
Red clay and sand 1	6	Edge of draw, E. Goodwin tract ne	ar
Coarse yellow sand 8	14	Oakwood road, 6 miles east of Dew	
Black yellow sand 2	16	Brown surface sand 1	1
Gray sandy soaps tone 2	18	Coarse red sand 3	, 4
Yellow sand and gray soapstone 1	19	Red gravel and sand 5	9
Gray soapstone 1	20	Red clay and sand 4	13
Gray and yellow soapstone 1	21	Caving	13
Gray cley and sand 2	23	Struck seep water at 7 feet.	1
Iron ore rock	23	Water sample collected. Apr. 30,	1'936
No water sample collected. Apr. 2,	1936		
		Well 680	
Well 673		Hillside, J. B. Parker tract nea	r Oak-
Hillside, F. E. Hill tract near old	1 l	wood road, $9\frac{1}{2}$ miles east of Dew.	
Buffalo road, $4\frac{1}{4}$ miles southeast of	Dew.	Brown surface sand 1	1
Orange sandy clay 3	3	Coarse yellow sand 1	2
Red clay and sand 1	4	Yellow clay and sand 1	3
Red and yellow sandy clay 2	6	Red sandy clay 2	5
Orange sand 1	7	Red clay and sand 1	6
		(Continued on next page)	1

### -64-Logs of W. P. A. test wells in Freestone County--Continued

m\_?_1	a Danth	ml.2 - 1	Donth
Thicknes (feet)	s Depth (feet)	Thickness I (feet)	(feet)
Well 680continued		Well 689Continued	<u></u>
Orange clay and sand 5	. 11	Coarse yellow sand 5	25
Brown clay and sand 6	17	Coarse gray sand 9	34
Coarse red sand 1	18	No water sample collected. June 4,	
Brown clay and send 1	19	we water sample corrected. cure 4,	1000
Coarse brown and yellow sand 1	20	Well 690	
Coarse black and yellow sand 2	22	Flat, J. H. Johnson tract near Buff	falo
Coarse black and brown sand 1	23	Froad, $5\frac{1}{2}$ miles east of Dew.	
Black sandy shale 4	27	Brown surface sand 2	2
Hard shale	27	Yellow silty sand 1	3
No water sample collected. June 3	. 1936	Red and yellow sandy clay 1	4
	<u></u>	Red and yellow silty sand 2	6
Well 684		Red sandy clay 4	10
Flat, L. Jordan tract near Oakwoo	d road.	Red and white sandy clay 2	12
8 miles east of Dew.		Stiff yellow and white clay 1	13
White surface sand 1	' 1	Coarse white sand 1	14
Stiff red clay 2	3	Coarse orange sand 1	15
Stiff yellow clay 1	4	Yellow and white sandy clay 2	17
Yellow sandy clay 3	7	Thite sandy clay 1	18
Gray and yellow sendy clay 3	10	Yellow sandy clay 1	19
Gray silty sand 3	13	Gray sandy clay 3	22
Gray water sand 1	14	Coarse yellow sand 1	23
Purple and yellow silty sand 2	16	Purple and yellow silty send 2	25
Gray clay and sand 3	19	Gray and yellow silty sand 1	26
Stiff blue clay 3	22	Purple and yellow silty sand 3	29
Blue sandy clay 3	25	Coarse yellow sand 1	30
Struck water at 14 feet.	: 1	No water sample collected. Apr. 30	, 1936
Mater sample collected. Apr. 30,	1936		
		Well 694	
<u>Well 685</u>		Gentle slope, E. E. Williford trac	
Flat, Jim Jones tract, H. C. Stag	ner	Buffalo road, 6 miles southeast of	Dew.
Survey, 8 miles east of Dew.		Red sandy clay 1	1 L
Coarse brown sand 7	7	Stiff red clay	2
Orange sandy clay 4	11	Stiff gray clay 3	5
Coarse yellow sand 4		Coarse yellow sand 2	7
Coarse white sand 4	19	Yellow sandy clay 1 Coarse vellow sand 1	8
Coarse yellow sand 2	21		9
Coarse white sand 2	23		11 12
Coarse yellow sand 10 Struck water at 31 feet.	33		12 13
	076		13 17
Water sample collected. June 4, 1	990		18
Well 689		Purple and yellow sandy clay 1 Coarse purple and brown sand 2	20
Gentle slope, C. Q, Johnson tract	7	Struck water at 15 feet.	20
miles east of Dew.	<b>&gt;</b>		256
	l 1	Water sample collected. Apr. 30, 19	000
		Wall 605	
	1		ich_
0 0			•6••
•	1	· · ·	3
			7
0 0 0		-	8
0			16
<b>e e e</b>		TOTION QUIDABAINA	
Brown clay and sand 3	· 1		1936
		- HO WORDST DESERVED OFFICE OFFICE THE H	2000
Ū į	4		
Coarse yellow sand 1 Brown clay and sand 1	19 20		
Red and yellow sandy clay2Stiff red and yellow clay1Stiff red clay2Red and white sandy clay5Gray sandy clay1Brown clay and sand1Orange clay and sand1Coarse yellow sand1	$ \begin{array}{c} 1\\ 3\\ 4\\ 6\\ 11\\ 12\\ 13\\ 14\\ 15\\ 18\\ \end{array} $		

# -65-Logs of W. P. A. test wells in Freestone County--Continued

Thi	ckness 1	Donth	Thickness Dept
	feet)		(feet) (fee
Well 696			Well 700
Hillside, W. D. Stafford tr	at 1,	nilo	Hilltop, D. Brown tract, W. L. Benson
south of Marshy Springs, 6	$au_{0} 4$	nitie .	Survey, 9 miles southeast of Dew.
east of Dew.	miles so	Su th-	· · · · · · · · · · · · · · · · · · ·
Yellow surface sand	٦		· · · · · · · · · · · · · · · · · · ·
Red clay and sand	1 4	1	
Coarse yellow sand		5	
	2	10	
Coarse gray sand Fine white sand	11	18	
	1	19	No water sample collected. June 4, 193
Fine yellow sand	4	23.	
Fine white sand	6	29	Well 701
No water sample collected.	Apr. 2,	1936	Hillside, J. S. Graham tract, near
			Buffalo road, 8 miles southeast of Dev
Well 697	7		White surface sand 1
Gentle slope, N. Ezell trac			Gray sandy clay 2
east of Highway 75, 62 mile	s south	east	Gray and red sandy clay 2
of Dew.		·	Gray and yellow sandy clay 2
Brown surface sand	1	1	Gray sandy clay l
Orange clay and sand	1	2	Brown sandy clay 3
Red sandy clay	1	3	Yellow clay and sand 3
Orange clay and sand	2	5	Yellow silty sand 1 1
Coarse orange sand	5	10	Brown gravel and sand 1
Coarse brown sand	8	18	Yellow silty sand 1 1
Brown gravel and sand	4	22	White silty sand 1 1
Yellow gravel and sand	2	24	Gray gravel and sand 1
Brown gravel	1	25	Coerse yellow sand 1 2
Grey water sand	2	27	Iron ore rock
Struck water et 23 feet.	1		No water sample collected. Apr. 30, 19
Water sample collected. May	18, 193	36	
			Well 702
Well 698	_		Hilltop, T. M. Goodson tract, 1/2 mile
Hilltop, T. E. Bently tract		iffalo	north of county line near Highway 75,
road, 7 miles southeast of	Dew.		8 miles southeast of Dew.
Brown surface sand	1	1	Stiff yellow clay 2
Stiff red clay	2	3	Gray and yellow sandy clay 2
Yellow sandy clay	2	5	Coarse yellow sand 1
Yellow clay and sand	3	8	Coarse white sand 5 1
Yellow silty sand	3	11	Brown iron ore sand 1 1
White and yellow silty sand	1 7	18	Yellow clay and sand 2 1
White packed sand	5	23	Fine yellow sand 2
White and yellow packed san	ld l	24	Fine red and gray sand 5 2
Hard packed sand		24	Fine gray and yellow send 1 2
No water sample collected.	Apr. 30	1936	Coarse brown sand 1 2
		<u> </u>	Yellow clay and sand 1 2
Well 699			Fine yellow sand 1 2
Gentle slope, Franz Thiele	tract 1	mile	Brown iron ore sand 1 2
north of county line, T. C.			Fine white sand 1 2
$8\frac{1}{2}$ miles east of Dew.			Fine yellow sand 1 2
Coarse yellow sand	6	6	Fine brown sand 1 2
Coarse white sand	2	8	Fine yellow sand 1 2
White quicksand	2	10	No water sample collected. Mar. 27, 19
Ceving	~	10	the without fourphie bothoo dotte mart a with the
Struck water at 9 feet.		<b>T</b> O	
	Juno 4	1035	
No water sample collected.	June 4,	1000	

# -66-Logs of W. P. A. test wells in Freestone County--Continued

	kness	Depth			Depth
(f	<u>eet)</u>	(feet)	(f	<u>eet)</u>	(feet)
Well 800		•	Well 804		
Gentle slope near hilltop; E	. Mixo	n	Level land, near creek bottom	s.J.	
tract, 3-3/4 miles west of T	eague.	· <b>··</b>	Hagans tract, 1-3/4 miles wes	t of	
Red clay and sand	2	2	Teague.		
Red and gray clay	ĩ	3	Yellow sand	5	5
Gray and yellow sandy clay	ī	4	Yellow and gray clay	4 j	9
Gray soapstone	$\overline{2}$	6	Yellow sand	2	11
White soapstone	5	11 <sup>''</sup>	Rock	1	11
Yellow sandy clay	1	12	No water sample collected. Ma	r. 6.	1936
Yellow sand and clay	$\tilde{2}$	14			
Sand rock		14	Well 805		
No water sample collected. F	eb. 28		Gentle slope, 3/4 mile from R	R. •	tracks
		,	in Teague, 25 yards east of c		
Well 801		1	on highway to Dew, 1-3/4 mile	s eas	t of
Creek bottoms, A. Dobbins tr	act 3	-3/4	Teague.		
miles southwest of Teague.	, 0	~	Brown sand	1	1
Brown sand	1	1	Red and yellow sandy clay	1	2
Yellow sand	9	10	Brown sandy clay	ī !	3
Gray and yellow sand	14	24	Grayish-yellow sandy clay	2	5
Sendstone		24	Gray and yellow sandy clay	2	7
Struck water at 5 feet.		~ 1	Gray and yellow sand	1	8
No water sample collected. F	eb. 28	1936	Gray and yellow sandy clay	1	9
			Gray and yellow sand	4	13
Well 802			Gray and yellow clay and		
Level land, L. Davis tract,	2금 mil	es	sand	1	14
southwest of Teague.	~		Yellow clay and sand	1	15
Brown sand	1 '	1	Purplish-yellow clay and	1	
Gray and yellow sand	1	2	sand	3	18
Gray sandy clay	2	4	Gray and yellow sandy clay	2	20
Gray clay	ĩ	5	Purple and yellow sandy clay	2	22
Gray sandy clay	ī	6	Gray and yellow sandy clay	3	25
Yellow clay and sand	6	12	Blue and gray shale	4	29
Gray and yellow sandy clay	1	13	Struck water at 20 feet.	-	
White silty sand	3	16	Water level, 19.1 feet below	top o	f
Yellow silty sand	6	22	ground, $\frac{1}{4}$ hour after hole com	-	-
Blue and gray soapstone	2	24	No water sample collected. Fe		
Gray silty sand	5	29			·····
Struck water at 26 feet.	• I		Well 807		
Water level, 20.2 feet below	top o	f	Gentle slope, Jim Roger tract	on i	side
ground, 24 hours after hole	+	1	road $\frac{1}{4}$ mile south of Highway		
Water sample collected. Feb.			miles east of Teague.		
			Yellow sand	1	1
We <b>ll 803</b>			Yellow and gray sandy clay	2	3
Hilltop, on side of county r	oad. 1	-3/4	Red and gray clay	2	5
miles southwest of Teague.		,	Gray and brown sandy clay	1	6
Gray sand	1	1	Gray and yellow sandy clay	9	15
Brown sandy clay	ī.	2	Gray packed sand	3	18
Gray sandy clay	2	4	White sand	1	19
Yellow sand	1	5	Yellow sand and gray clay	1	20
Yellow eley and sand	1	6	Yellow and gray sand	3	23
Gray soapstone	2	8	Gray clay and sand	4	27
Rock		8	Gray and yellow sand	2	29
No water sample collected. F	eb. 27	1	No water sample collected. Fe	b. 3.	
		1	1		

Thicknot (fee		Depth (feet)	Thickness Dept (feet) (fee
Well 809	<u>.</u>	(1000)	Well 818
Edge of draw, on side of road	100	vards	Level land, Tex Hullum tract, $4\frac{1}{4}$ miles
north of Highway 7, w miles no:			east of Teague.
Teague.			Brown sand 2
Dod and and a	1	1	Yellow sand 1
	3	4	Yellow clay and sand 1
	2	Ē	Red and yellow sandy clay 2
	1	7	Yellow and gray sand 4 1
	1	8	Yellow sand 1 1
· ·	5	13	Brown and yellow sand 1 1
	5	18	Yellow silty sand 3 1
	3	21	Gray silty sand 1 1
~ •	1	22	Yellow silty sand 7 2
Brown and red clay	1	23	Rock 2
Lignite and water	1	24	Struck water at 12 feet.
Water level, 13.3 feet below to	op d	of	Water level, 12.0 feet below top of
ground, 23 hours after hole con			ground, $\frac{1}{4}$ hour after hole completed.
Water sample collected. Feb. 1			Water sample collected, Mar. 13, 1936.
Well 812			Well 819
Hilltop, C. D. Lindsey tract,	3~3/	/4 miles	Hillside, P. R. French tract, 2-3/4
northeast of Teague.		1	miles east of Teague.
•	1	1	Yellow sand 5
Yellow and sticky sandy clay	2	3	Red and yellow sand 2
v	2	5	Gray and red sand 1
~ ~ ~ ~	2	7	Yellow sand 2 1
	2	9	Gray sand 1 1
	2	11	Yellow sand 4 1
	1	12	Gray sandy clay 1 1
	3	15	Gray clay and sand 4 2
Red, yellow, and white sandy			Stiff yellow clay 5 2
	2	17	Struck water at 7 feet.
100	1	18	Water level, 7.1 feet below top of
	1	19	ground, $\frac{1}{4}$ hour after hole completed.
and your band	1	20	Water sample collected. Mar. 13, 1936.
	3	23	
<b>v</b>	1	24	<u>Well 822</u>
	2	26	Edge of draw, W. A. McKee tract, 20
	2	28	yards north of highway culvert, on road
	6	34	to Dew, $2\frac{1}{4}$ miles east of Teague.
Water level, 26.2 feet below to			Brown sandy clay 2 Brown cley and sand 1
ground, 3 hours after hole com			
Mater sample collected. Jan. 3	L .	1990.	Yellow and gray sandy clay 3 Coarse gray sand 3
Well 816	~ <b>-</b> - 1		
Gentle slope, on side of Highwa	ay	', 4 <u>4</u>	
miles northeast of Teague.	ו ס.		
U U	2 5	2 7	Struck water at 24 feet.
	1	8	Water level, 23.8 feet below top of
e.	$\frac{1}{2}$		ground, 35 hours after hole completed.
	6	10 16	Water sample collected. Feb. 5, 1936.
<i>c v</i>	1	10	Well 823
- U - U	1	27	Gentle slope, on side of rord, $2\frac{1}{4}$ miles
Gray and yellow sandy clay 10	2	29	
	2	30	southeast of Teague. Yellow sand 1
	<b>r</b>	50	4
Struck water at 27 feet.	<b>~~</b>	.e.	
Water level, 20.2 feet below to			
ground, 19 hours after hole con		,	
"ater sample collected. Jan. 3	. مد	1990 (	(Continued on next page) /

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Logs of W. P. A. test wells in Freestone County--Continued

	ness et)	Depth	Thickness Depth
(16	et)	(feet)	(feet) (feet)
Well 823Continue	-		Well 832
Gray and yellow sand	1	13	Gentle slope near hilltop, on road to
	11	24	Cedar, 4 miles south of Teague.
Stiff, purple sandy clay	5	29	Yellow sandy clay 2 2
Struck water at 12 feet.	7. <b>9</b>	0 1070	Gray clay 2 4
No water sample collected. Fe	D. 1	0, 1936	Gray sandy clay 1 5
Well 825			Decayed vegetation 1 6 Grav sandy clay 1 7
Creek bottoms, H. C. McMichae	7 + ~	9. <b>0</b> +	Gray sandy clay17Yellow clay and sand18
2 <sup>1</sup> / <sub>2</sub> miles south of Teague.	T OT	au 0,	Yellow sand 5 13
Yellow sand	5	5	Yellow clay and sand 2 15
Yellow quicksand	6	11	Gray and yellow clay 1 16
Quicksand	U	iĩ	Gray soapstone 3 19
Struck water at 6 feet.			Gray sandy soapstone 5 24
No water sample collected. Fe	b. 1	0. 1936	Yellow soapstone and sand 1 25
······································			Yellow sandstone 1 26
Well 826			No water sample collected. Feb. 27, 1936
Edge of shallow draw, on side	of	roed	الله المنظومة المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد المحمد محمد مع المحمد المحم المحمد المحمد
to Donie, 12 miles south of T	eagu	е.	Well 834
Brown sand	1	1	Gentle slope, near hilltop, on side of
Brown clay and sand	1	2	r ad to Donie, $4\frac{1}{4}$ miles south of Teague.
Gray sandy clay	2	4	Brown sand 1 1
Gray and yellow sandy clay	2	6	Yellow clay and sand 1 2
Purple and yellow sandy clay			Gray sandy clay 1 3
lignite	1	7	Gray and yellow sandy clay 3 6
Gray sandy clay	1	8	Yellow sand 1 7
Gray and yellow sandy clay	3	11	Gray clay and sand 3 10
Gray and yellow sand	4	15	Gray and yellow sand 3 13
Gray silty sand Yellow sand	6	21	Yellow clay and sand 3 16 Rock 16
Purplish-brown clay and sand	1 1	22 23	Rock 16 Struck water at 12 feet.
Bleck packed sand	2	25 25	Water level, 13.7 feet below top of
Struck water at 12 feet.	2	20	ground, $\frac{1}{4}$ hour after hole completed.
Water level, 7.2 feet below t	nn a	f	Water sample collected. Feb. 21, 1936
ground, 48 hours after hole of		Walter Sample Corrected. 100, 21, 200	
Mater sample collected. Feb.		Well 838	
			Gentle slope, J. B. Washburn tract on
Well 831			'side rode, 300 yards east of RR.
Gentle slope near hilltop, on	sid	e of	3-3/4 miles south of Teague.
road to Donie, 3 miles south			Yellow sand 1 1
Brown sand	1	1	Yellow clay and sand 2 3
Red and yellow clay and sand	3	4	Red and gray sandy clay 5 8
Red and gray clay and sand	2	6	Gray and yellow sand 6 14
Gray end yellow send	2	8	Gray quicksand 12 26
Gray and yellow sandy clay	5	13	Struck water at 14 feet.
Grey and yellow sand	2	15	Water le vel, 13.2 feet below top of
Gray silty sand	1	16	ground, 48 hours after hole completed.
Gray and yellow sand	4	20	Water sample collected. Feb. 10, 1936
Fine yellow sand	3	23	m 33 040
Gray clay and sand	1	24	<u>Well 840</u>
Gray packed sand	1	25	Gentle slope, J. B. Washburn tract,
Fine yellow sand	4	29	3-3/4 miles southeast of Teague.
No water sample collected. Fe	b <u>,</u> 2	1, 1936	Stiff dark brown and red sandy
			clay 2 2
			(Continued on next page)

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### -69-Logs of W. P. A. test wells in Freestone County--Continued

	ckness			ckness	
	reet)	(feet)		(feet)	(feet)
Well 840Continu	aed	1	Well 848Continu	led	ı
Brown sandy clay	2	2	Yellow sand	2	6
Gray and yellow sandy clay	3	1 7	Gray sand	2	8
Fine brown sand	1	8	Gray clay and sand	5	13
Fine white sand	1	9	Gray sand	1	14
Fine yellow sand	20	29	Yellow sand	2	16
No water sample collected. H			Gray silty sand	1	17
		,	Purple sand	2	19
Well 843			Gray water sand	10	29
Creek bottoms, T. G. Blackma	$n 3\frac{1}{2}r$	miles	Struck water at 20 feet.	10	~~~
southeast of Teague.		, ,	Water level, 13.0 feet bel	ow ton	of
Yellow sand	1	1	ground, $\frac{1}{4}$ hour after hole		
Red and gray sandy clay	2	3			
Yellow and gray send	2		Water sample collected. Ma	r. 10,	1900
Silty gray sand		5	** >> 075		
	14	19	Well 855		••
Purplish-gray sand	1	20	Hilltop, Minnie McDonald t	ract, 6	miles
Gray silty sand	5	25	east of Teague.	-	
Struck water at 6 feet.			Brown sand	1	' <u>1</u>
Water level, 4.2 feet below			Red sandy clay	2	3
ground, 17 hours after hole			Red clay	1	<u>4</u>
No water sample collected. H	'eb. 10	, 1936	Light red sandy clay	2	6
			Orange sand	1	7
Well 845			Fine yellow sand	12	19
Gentle slope, E. O. Cassin t	ract, 4	4 miles	Yellow sand and iron ore		
east of Teague.		1	gravel	2	21
Yellow sand	3	3	Yellow sandy clay	1	22
Red and yellow sandy clay	4	7	Yellow water sand	7	29
Yellow sand	6	13	Struck water at 20 feet.		
Gray sand	ĩ	14	Water level, 20.7 feet bel	w top	of
Fine yellow sand	15	29	ground, $\frac{1}{4}$ hour after hole		
Struck water at 25 feet.	10		Water semple collected. Max		
Water level, 22.8 feet below	t ton of		madel asimple corrected. Int.		
			Well 856		
ground, 48 hours after hole completed.			Gentle slope, D. Daniels t		5
Water sample collected. Feb. 11, 1936					
			yards north of Dew highway	, og mi	res
<u>Well 846</u>			east of Teague.	,	,
Gentle slope, near edge of a			Stiff gray clay	4	4
of highway, 3-3/4 miles east	t of Tea	ague.	Stiff gray and yellow sand		
Brown and yellow sandy clay	4	, <b>4</b>	clay	1	5
Grey and yellow sendy clay	2	6	Gray and yellow sandy clay	11	16
Gray and black sandy clay	1	7	Gray sandy clay	3	19
Gray and yellow sandy clay	4	11	Gray sand	2	21
Gray and yellow silty sand	4	15	Grey and yellow sand	3	24
Grey and yellow sandy clay	2	17	Yellow sand and clay	5	29
Black and yellow sandy clay	3	20	Struck water at 24 feet.	1	
Gray and yellow sandy clay	4	24	Water level, 16.6 feet bel	w top	of
Struck water at 14 feet.	- 1		ground 3 hours after hole		
Water level, 2.2 feet below top of			Water sample collected. Fe		
ground, 48 hours after hole completed.					
-		1	Well 857		
Water sample collected. Feb. 5, 1936.			Gentle slope, corner at in	toreart	ion
1977 - <b>3</b> 5 0 4 0		4 1			
Well 848		1.	at side road and highway,	18 mrte	0 C256
Hillside, R. A. Pickett trac	st, 4-3,	/4	of Teague.		-
miles east of Teague.			Yellow sand	1	1
Brown sand	2 .	2	Yellow sandy clay	3 (	4
Red sandy clay	1	3	Gray and yellow sandy clay		6
Orange-colored sand	1	4	Gray and yellow sand and c		9
			(Continued on next pa	ge)	
			i (construct on nexts pa	⊃~ <i>1</i>	

### -70-Logs of W. P. A. test wells in Freestone County--Continued

mia 2 - 1-		De esta la com		altraces	Denth
	ness et)	Depth (feet);	1	ckness feet)	
	******	(1660)	· · · · · · · · · · · · · · · · · · ·		(1000)
Well 857Continue	<u>d</u>	1	Well 868Continu		
Gray sandy clay	1	10	•	1	11
Gray and yellow sandy clay	2	12	Gray clay and sand	3	14
Yellow clay and sand	1	13	Gray sandy ccapstone	2	16
Gray and yellow sandy clay	3	16	<ul> <li>Gray and brown soapstone</li> </ul>	2	18
Sticky brown sand	1	17	Brown sandy soepstone	1	19
Spongy lignite	1	18	Gray clay and sand	2	21
Brownish-purple clay	1	19	Coarse yellow sand	4	25
Gray silty sand	9	28	Coarse brown sand	1	26
Struck water at 24 feet,			Gray and yellow sand	8	34
Mater level, 21.0 feet below	top	of	Struck water at 30 feet.		
ground, 48 hours after hole c	ompl	eted.	Water sample collected. May	11, 19	36.
Nater sample collected. Feb.	7, 1	936.	W 11 000		
			Well 869	+ 10.	
Well 862 Gentle slope, Bill Moore trac	+ ¬	A +	Hilltop, J. E. Gregory tract	ug ⊥/4± ) ∖n π⊦≎≂∸	of
Survey, 7 miles east of Teagu	υ <b>,</b> Β	. Avant	east of county line, $3\frac{1}{2}$ mile	sa west	U1
Brown surface sand	-		Freestone.	٦	٦
Stiff yellow sandy clay	1 2	1	Stiff red cley	1	1 2
Brown sandy clay	2	3 5	Red sandy clay	2	4
Brown and yellow sand and cla		5 6	Fine salmon-colored sand	2 4	8
Coarse yellow sand and cra	у <u>г</u> 5	1 1	Fine yellow sand	4 4	12
Frey silty sand	5	11	Gray sandy clay	4 4	16
hey clay and sand	2	18	Yellow sandy clay	10	26
Damp, sticky, gray clay	5	23	Gray soapstone	2	28
Black soapstone	2	25	Black soapstone Blue packed sand	2	: 30
No water sample collected. Ma	r 2/		Hard packed sand	L	30
to we doi bampie boiled deus mo	1	x, 1000	No water sample collected. A	lev 11.	-
Well 864					
Hillside, B. L. Seely tract,	41 m	iles	Well 870		
southeast of Teague.	T	1	Hillside, C. J. Martin Estat	te nea <b>r</b>	
Brown sand	1	1	Providence road, J. L. Chave		
Red sandy clay	2	3	2 <sup>1</sup> / <sub>2</sub> miles southwest of Freest		,
Yellow sandy clay	2	5	Red sandy clay	3	3
Grey sandy clay	1	6	Salmon-colored clay and sand	12	' 5
Yellow sand	5	11	Yellow clay and sand	2	7
White silty sand	1	12	Coarse yellow sand	1	8
Yellow sand	6	18	Coarse gray and yellow sand	5	13
Brown clay and sand	3	21	Yellow sand	5	18
Purple sandy clay	1	22	Gray scapstone	1	19
Ye⊥low clay and sand	4	26	Hard soapstone		! 19
fellow sand	2	28	Struck water at 10 feet.		
Blue soapstone	2	30	Water sample collected. May	11, 19	36.
Struck water at 28 feet.					
Nater level, 28.8 feet below			Well 871		
ground, $\frac{1}{4}$ hour after hole completed.			Flat, M. Savage tract, 1호 mi	les we	st of
Mater sample collected. Mar.	11,	1936.	Freestone.		
			Red sandy clay	4	4
<u>Well 868</u>			Dark brown sand	2	6
Hilltop, Lee Carter tract, R.		Gilliam	Light brown sand	1	7
Survey, 5 $\pm$ miles south of Tea	gue.		Yellow silty sand	11	18
Red and white sandy clay	3	3	Gray silty sand	8	26
Coarse gray and yellow sand	2	5	Gray and yellow sand	3	29
Coarse brown sand	1	6	Struck water at 27 feet.		1
Coarse yellow sand	1	7	Water level, 26.4 feet below	top o	f
	1		-		
Brown gravel and sand	1	8	ground, 5 hours after hole c	ombree	ou.
Brown gravel and sand Gray clay and sand	2	10	Water sample collected. Feb.	-	

-71-Logs of W. P. A. test wells in Freestone County--Continued

	kness D	· · ·	Thickne		
(f)	eet) (	feet)	(fee	<u>t)</u>	(feet)
Well 876			Well 886Continued		
Creek bottoms, John Epps trad	ct. 👌 m	ile '	Coarse brown sand	ī	6
northeast of Freestone.			Gray clay and sand	1	7
Brown sand	2	2		1	8
Yellow sand	1	3		2	10
Red and yellow clay and sand	3	6		2	12
Gray and yellow sand	1	7	Brown sand	1	13
White silty quicksand	9	16	Brown clay and iron ore		
Yellow quicksand	1 '	17	_	1	14
Struck water at 8 feet.		1		4	18
Water level, 5.4 feet below	top of			2	20
ground, $\frac{1}{4}$ hour after hole con				5	25
Water sample collected. Mar.	-	1	· · ·	1	26
				3	29
Well 880				4	33
Hillside, W. J. Shelley trac northeast of Freestone.	t, 2 mi	les	No water sample collected. Mar.	25,	
Brown sand	2	7	W-11 890		
Red and yellow sandy clay	3 2	3 5	Hillside, Gilliam Poindexter tr	a <b>a</b> +	
Gray sendy clay	1	5 6	H. C. Cook Survey, 6 miles east		
Coarse yellow sand	2	8	stone.	01	F166-
Coarse gray sand	ĩ	9	Brown surface sand	7	1
Gray and yellow sand	4	13		1	
Gray silty sand	3	16	-	2	2 4
Brown silty sand	3	10		£ 4	8
Gray sand	4	23		± 2	10
Yellow sand	2	25		2 9	10
Struck water at 19 feet.	۲.	20		5 1	20
	ton of	, į		1 4	24
Water level, 14.1 feet below				+	ມ 1
ground, $\frac{1}{4}$ hour after hole con			Yellow sand and blue soep-	1	25
Water sample collected. Mar.	11, 19			1	26
We <b>ll</b> 883				2	28
Gentle slope, Al Philpott tra	oot T	Ϋ́	Blue sandy clay No water sample collected. Mar.	-	
Moffett Survey, 32 miles nor			No water sample corrected, Mar.	20,	1000
Freestone.	uneas c	01	Well 890		
Brown sandy clay	2	2	Hilltop, Wm. Oliver tract near 1	<b>B</b> 11 <b>f</b> f	'elo
Stiff yellow clay	2	4	road, 3-3/4 miles east of Frees		
	ĩ	5	Coarse yellow sand	7	• 7
Stiff light brown clay	3	8		1	8
Gray and yellow sandy clay	1	9		1	9
Gray and yellow soapstone	6	15	bagmon objorod bana	7	16
Gray soapstone	0	10		í	17
Gray and yellow sandy soap	~ I	70		1	18
stone	3	18		- 1	21
Coarse yellow sand	7	25		3	
Coarse brown sand	1	26		4 :	25
Black soapstone	2	28	Dioni and gray Dana	1.	26
No water sample collected. Ma	ar. 24,	1936	hamp Prad pana	6, •	32
		ļ	aray oray	1	33
Well 886	TT ~	a !	No water sample collected. May	σ, 1	.936
Hilltop, Mm. Franklin tract,		COOK			
Survey, 5 miles east of Free	<b>.</b> .		Well 891		
Brown surface sand	1	1	Hillside, J. A. Tucker tract ner		- <b>1</b>
Coarse yellow sand	1	2	Buffalo road, 25 miles east of 1	rree	-
Red and yellow sandy clay	2	4	Stiff red clay 1	1	1 O
Stiff yellow clay and gray		_ 1	Stiff yellow clay 1		2
sand	1 (	5	Stiff red and yellow clay 1		3
			(Continued on next page)	,	

# -72-Logs of W. P. A. test wells in Freestone County--Continued

Thic	kness I	Penth	Thickness Depth
		(feet)	(feet) (feet)
Well 891Continu			Well 896Continued
Stiff gray clay	2	5	Stiff bluish-gray sandy clay 1 29
Gray and yellow sand	1	6	Soapstone 29
Fine gray sand	1	7	Struck water at 18 feet.
Fine purple sand	2	9	Mater level, 14.9 feet below top of
Stiff purple sand	2	11	ground, 3 hours after hole completed.
Gray clay and sand	3	14	Water sample collected. Feb. 24, 1936.
Gray sand	7 :	21	
Gray and yellow sand Struck water at 16 feet.	6	27	Well 899
Water sample collected. May	8 1076	: 	Gentle slope, <sup>17</sup> . R. Lummus tract near
Mator Semple Collected. May	0, 1900		Donie road, J. L. Chavert Survey, 3 <sup>±</sup> miles southwest of Freestone.
Well 892		1	Yellow surface sand 1 1
Gentle slope, side of Donie	road. 1	-3/4	Stiff red and yellow clay 2 3
miles east of Freestone.	•		Stiff gray clay 2 5
Brown sandy clay	1 +	1	Gray and yellow clay and sand 2 7
Stiff red clay	2	3	Coarse gray sand 3 10
Brown sandy clay	1	4	Gray soapstone 1 11
Yellow sandy clay	3	7	Coarse yellow sand 2 13
Damp gray and yellow silty sand	0	20	Coarse gray yellow sand 2 15
Yellow silty sand	9 2	16 18	Coarse brown sand116Coarse gray sand218
Gray silty sand	5	23	Coarse gray sand218Yellow silty sand119
Grayish-;urple silty sand	1	24	Yellow clay and sand 1, 20
Stiff gray clay	3	27	Gray sandy clay 1 21
Struck water at 17 feet.	Ŭ i		Yellow silty sand 1 22
Water level, 13.9 feet below	top of		Gray clay and sand 3 25
ground, 5 hours after hole c	omplete	d.	Grayish-purple soapstone 1 26
Water sample collected. Mar.	17, 19	36	Coarse yellow sand 6 32
			Struck water seep at 29 feet.
Well 895			No water sample collected. May 11, 1936
Gentle slope, Doyle Tacker t			W-11 000
Luna road, 2 miles southeast Brown sandy clay	l of fre		Well 900 Hillside, D. M. Worthy tract, 1,000 feet
Stiff brown clay	2 :	3	south of Sanders Creek, 3 miles south of
Stiff yellow clay	1	4	Freestone.
Yellow clay and sand	2	6	Gray and yellow clay and sand 1 1
Brown clay and sand	1	7	Gray clay and yellow sand 1 2
Gray and yellow scapstone	3	10	Gray sandy shale 2 4
Gray soapstone	3	13	Fine white sand 5 9
Rock		13	Gray sandy shale 2 11
No water sample collected. M	ar. 17,	1936	Gray sand 3 14
		1	Gray sandy soapstone 1 15
Well 896	om Dami	-	Gray sand 1 16 Yellow sandy soapstone 1 17
Flat, Doyle Newsome tract ne 1-3/4 miles south of Freesto		e road	
Brown sendy clay	2	2	Gray end yellow sandy soap- stone 3 20
Brown and yellow sandy clay	2	~ 4	Hard soapstone 20
Yellow sandy clay	2	6	No water sample collected. Feb. 24, 1936
Brown sand	1	7	
Iron ore gravel and sand	1 1	8	Well 902
Yellow sand	1	9	Gentle slope, R. Howell tract near
Gray clay and sand	2	11	Teague road, 4 miles south of Freestone.
Gray and yellow silty sand	3	14	Brown sand 1 1
Gray and brown clay and sand	1	15	Red and yellow clay and sand 2 3
Gray silty sand	3	18 .	Red and yellow sandy clay 2 5
Gray and yellow silty sand	10	28 :	Gray and yellow sandy clay 4 9
		1 1	(Continued on next page)

## -73-Logs of W. P. A. test wells in Freestone County--Continued

(T)), 2		D + 1	Mild always - Day th
		Depth (feet)	Thickness Depth (feet) (feet)
Brown sand	ed,	10	Well 906
Stiff gray clay	1	10	Hilltop, F. Folsom tract near Buffelo
Gray sand	1	12	road, 8 miles east of Freestone. Yellow surface sand 4 4
Yellow silty sand	1	1	
Gray silty sand	1	13	Red clay and sand 6 10
Yellow sand and sandstone	9	22	Coarse red and white sand 9 19
Sendstone	1	23	Coarse yellow sand 6 25
		23	Coerse red and yellow sand 3 28
Struck water at 18 feet.		_	Coarse salmon-colored sand, dry 4 32
Water level, 17.4 feet below			No water sample collected. May 8, 1936.
ground, 48 hours after hole	comple	eted.	W 33 007
Water sample collected. Feb.	25,	1936	Well 907
			Hilltop, W. T. Adkins tract near Buffalo
Well 903			road, 8 miles southeast of Freestone.
Gentle slope, J. T. Howell t			Coarse yellow sand 10 10
Luna road, 3-3/4 miles south	east d	of	Red clay and sand 3 13
Freestone.		1	Coarse red sand 5 18
Brown surface sand	1	1	Red and white sandy clay 2 20
Gray sandy clay	2	3	Coarse yellow sand 1 21
Gray clay and sand	1	4	Coarse red send 3 24
Coarse yellow sand	3	7	Coarse yellow sand 3 27
Coarse gray sand	7	14	Quicksand 27
White silty sand	5	19	Struck water at 27 feet.
Gray silty sand	6	25	No water sample collected. May 25, 1936.
No water sample collected. Me	ar. 1'		
		-	Well 908
Well 904			Hilltop, J. W. Moody tract near negro
Hillside, M. A. Webb tract n	ear Bi	uffalo	school, $6\frac{1}{2}$ miles southeast of Freestone.
road, $5\frac{1}{2}$ miles east of Frees			Yellow surface sand 3 3
Stiff red and gray clay	2	2	Yellow clay and sand 2 5
Stiff yellow clay	1	3	Red and yellow clay and sand 1 6
Stiff brown clay	2	5	Red and white sandy clay 4 10
Yellow silty sand	~ 3	8	Gray and yellow clay and sand 2 12
Coarse yellow sand	3	11	Gray clay and sand 2 14
Yellow silty packed sand	9	20	Gray and yellow clay and sand 2 16
Hard packed sand	0	20	Yellow clay and sand 2 18
No water sample collected. Ma	0 ** R		Brown sandy clay 2 20
The water sample collected. In	ay o,	1300.	Struck water at 9 feet.
Well 905			Water sample collected. May 25, 1936.
Bottoms, Lou Varnell tract no	oar L	ina -	Walter Bampre Corrected May 20, 1000.
Buffalo road, 7 miles east of		1	Well 909
Brown surface sand	2	2	Side of draw, E. H. Sealey tract near
Fine gray sand	ĩ	3	Buffalo road, B. W. Brewer Survey, 5
Fine brown sand	1	4	miles southeast of Freestone.
Yellow clay and sand	î	5	Stiff red clay 1
	2	7	
Red and yellow sand	2	1 1	
Fine yellow sand		9	
Gray sandy clay	1	10	
Gray soapstone	4	14	Coarse gray sand 1 9
Gray sandy soapstone	1	15	Coarse yellow sand 2 11
Yellow clay and gray sand	1	16	Purple clay and sand 2 13
Coarse gray and yellow sand	1	17	
Coarse white sand	1	18	Gray and yellow clay and sand 4 18
Gray sandy clay	1	19	Coarse gray and yellow sand 1 19
Gray silty sand	1	20	Purple clay and sand 3 22
Stiff black clay	1	21	Coarse gray and purple sand 9 ' 31
No water sample collected. M	ar. 2	5 <b>, 1</b> 936;	Struck water at 19 feet.
			Water sample collected. May 25, 1936.

## -74-Logs of W. P. A. test wells in Freestone County--Continued

	Thickness	Denth
		(feet)
		(1000)
Hillside, S. D. McAshan t	ract 11	milee
north of county line, G.	Diez Summ	m1103
miles southeast of Freest	ono	ey, i
Yellow surface sand	-	
Red sandy clay	1 1	1 2
Stiff gray clay	1	1
Gray packed sand	2	3
Coarse yellow sand	1	5
Gray packed sand	2	6 8
Gray clay and sand	2 1	9
Coarse gray sand	1 3	9 12
Gray and brown packed san		12
Coarse gray sand	u 3 1	15
Coarse gray and brown san		20
Coarse gray and yellow san		20 22
Gray sand		
Coarse gray and yellow sa	1 nd 2	23
Brown clay and sand		25
	1	26
Coarse purple sand	1	27
Coarse gray s and, dry	3 Mar 25	30
No water sample collected	. May 25,	1936
Well 911	aida af	
Gentle slope, near creek, road, 5 miles south of Fr		county
Red clay and yellow sand	_ '	7
Gray and yellow sandy cla	y 2	3 5
Gray sand	y 2 1	6
Yellow clay and sand	2	8
Brown clay and sand	1	9
Yellow silty sand	2	11
Coarse gray end yellow sa	f.	16
Blue sandy clay	nu 5 5	21
No water sample collected	-	4
no na doi Bampie Collico ded	• res. 20	, 1000
Well 912		
Hilltop, J. H. Robertson	tract 6	milee
south of Freestone.	0.400, 0	
White sand	6,	6
Gray and yellow sand	3	9 1
White silty sand	1	10
Brown and orange sand	1	11
White clay and sand	1 3	14
Yellow clay and sand	3	14
White and yellow clay and	- 1	,
		19
Gray and yellow clay and Gray clay and sand		21
Grey clay and sand Yellow silty sand	1 3	22 25
No water sample collected		4 1
TO MA DEL DAMPLE COTTECCEU	• reu, 20	, 1936

## Partial analyses of water from wells in Freestone County, Texas

(Analyzed at The University of Texas under the direction of Dr. E. P. Schoch, Director of the Bureau of Industrial Chemistry, by J. E. Stullken, D. F. Riddell, and Alfred J. Kelly, Chemists, and J. A. Harmaza, Martin Wieland and Jack Ramsey, Assistant Chemists. Results are in parts per million. Well number correspond to numbers in table of well records.)

1000		Depth		Total	1	Magnes-	Sodium and	Bicar-			Total	
Well	Owner	of	Date	dissolved	Calcium	ium	Pôtassium		Sulphate	Chloride	hardne	5S
No.		well	of	solids	(Ca)	(Mg)	(Na + K)	$ (HCO_3) $	( \$0 <sub>4</sub> )	(Cl)	as CaCC	$\mathcal{D}^{\mathbf{Z}}$
		(feet)		calculated	) /		(calculated		4		(calcul	lated)
3	W.P.A. test well	23	May 20, 1936	13,918	2,425	1,110	416		1,787	7,650	10,622	
4	do.	20	May 7, 1936	807	60	21	208	244	188	210	233	
9	do.	21	do.	1,328	33	32	344	519	546	68	340	
10	J. C. Kirren Estate		do.	420	-			220	126	39		
12	W.P.A. test well	<b>2</b> 2	May 20, 1936	10,897	307	443	2,750	342	5,189		2,588	
17	do 🔹	24	Apr.20, 1936	3,405	134	90	94 <b>7</b>	464	1,206	800	705	
23	Shilo School	42	Mar. 9, 1936	535	64	19	137	180	<u>a</u> / <u>a</u> / 44	275	237	
24	D. R. Allen	24	do.	1,150	200	67	23	561	a/	530	773	
25	J. C. Adams	31	do.	915	151	57	113	320	44	390	612	-7
27	Mrs. Barnhill	12	do.	145	35	8	17	104	<u>a</u> 115	33	96	5
28	Ars. Ruth Baney	48	do.	666	31	38	106	39 <b>7</b>		218	360	1
29	W. P. A, test well	29	Mar. 23, 1936	5 210	-	-	-	183	26	15	-	
30	Gilliam Poindexter		do.	169	32	12	14	92	31	35	127	
31	W.P.A. test well	33	May 20, 1936	1,386	-	-	-	31	855	<b>96</b> 43	٦, ٣, ١	
.33	Ranson Stallworth	59	Mar. 23,1936	397	24	23	88	177	127		154	
34	W.P.A. test well	29	Mar. 10,1936	322	122	47	82	42	356	194	501 126	
35	Ellis Campbell	31	do.	238	32	11	55	140	100	20 5 2	120 116	
36	J. C. McKinney	37	do.	213	30	10	41	159	<u>a</u> / 15	53 74	162	
37	do.	50	do.	`317	38	16	64	220				
33	W.T. West	37	do.	316	25	13	32	244	28	46	116	
40	do.	62	do.	338	54	20	47	195	48	72	217	
41	Kaiser Kuyava	47	do.	380	42	21	75	293	56	40	192	
43	Avery McKinney	67	do.	1,224	214	90	91	293	263	420	906	
44	W.K. Manning	29	Mar. 5,1936	162	11	4	50	140	<u>a</u> /	27	45	
45	New Hope School	34	. do.	500	19	11	164	293	<u>4</u> 0	120	47 94	
46	Mrs. J.H. Collins	45	do.	949	50	1.6	294	268	40 90	365	191	
<b>48</b> 49 50	S. C. Smith	32	do.	92	8	6	12	12	52	8	47	
49	Mrs. Winn	44 23	do.	1,035	30 31	58 11	302 152	265	1.04			
	W.P.S. test well Clay McKinney	23	do.	<sup>504</sup>	31	11	152	265 360	53	460 72	315 124	
<u>51</u>	Clay McKinney L. V. Kennedy	_ 26		282	49	13	163	193	a	393 .	163	
							and a state of the		<u> </u>	12	17	

			- 1 	<u>Hesults</u> ar	<u>e in par</u>						
	1	Depth	1	Total		Magnes		Bicar-	1	,	Total
Well	Owner	$\circ \mathbf{f}$	Date	dissolved	Calcium	ium	Potassium	bonate	Sulphate	. Chloride;	
No.		well	of	solids	(Ca)	(Mg)	(Na + K)	(HCO <sub>3</sub> )	(SO <sub>1</sub> )	(01)	as CaCO <sub>2</sub>
	1	(ft.)	and the second second second second second second second second second second second second second second second	(calculated)			(calculated)	2	7		(calculated)
53	L.P. Robinson	29	'Mar. 5, 1936	806	596	28		37	- a/	164 1	264
56	Will Barkouskie	65	do.	890	145	67	89	366	111	295	638
59	Clifford Boyd	35	Feb. 20,1936	374	26	8	108	177	42	102	99
60	Lizzie Cox	40	do.	669	95	23	94	363	137	86	332
62	Winfrey's Service	347	do.	363	49	15	73	274	30	64	187
	Station				.,	-,	1.2	~14	)0	04	107
63	Withrow Gin Co.	20	Mar. 3, 1936	1,404	35	30	358	323	630	140	339
64	Cotton Gin School	22	do.	252	30	5	63	140	ma/	84	95
65	Alderman & Alderman	n 36	do.	344	52	19	54	98	630 <u>* a/</u> 40	170	207
67	J. D. Moffett	72	do.	526	83	27	76	192	40	204	321
68	Mrs. L. C. Traham	37	Mar. 9, 1936	2,071		140	68	296	103	1,250	1,467
69	W.P.A. test well	20	do.	7,648	1,290	533	757	384	336	4,540	5,416
71	Mrs. Hugh Day	23	Mar. 7, 1936	94	16	3	18	85		15	53
72	Mrs. John Sweat	13	do.	292	23	16	66	30	<u>a</u> / 66	172	124
73	W. W. Day	75	do .	377	46	24	58	110	67	128	213 1
74	J. M. Day	84	do.	3,438	459	320	288	30	686	1,670	2.470
75	H. P. Milligan	23	- do •	106	13	9	16	67	a/	35	71 9
76	R. E. Hays	32	Mar. 9, 1936	772	79	47	137	241	132	258	258
77	W. T. Moore	56	Mar. 7, 1936	682	117	33	84	259	60	254	449
79	do.	41	do.	1,015	86	29	263	445	125	290	333
80	Shanks School	53	do.	1,665	230	98	254	396	115	770	977
32	A. P. Carter	32	Mar. 20, 1935	168	3	3	53	12	52	51	20
83	L. C. Coleman	26	do 🖡	101	1	4	34	3	$\frac{a}{40}$	64	18
84	Tome Newman	31	do.	508	53	23	110	204		180	225
85	W. P. A. test well	31	do.	1,902	214	66	372	281	502	610	<b>8</b> 05
86	Fred Carter	33	do.	1,433		145	223	110	a/	900	370
88	Sterling Sims	25	do.	133	4	6	43	21	<u>a</u> / 39	76	30
89	W.P.A.test well		Mar. 18, 1936	1,256	146	40	277	233	39	635	530
90	John Wylie	29	Feb. 18, 1936		72	30	432	598	75	478	303
92	John Riley	15	do.	163	10	6	42	61	43	32	48
83 95	Mrs. G. V. Hullum John Riley	22 21	May 29, 1936	201 686	32	20	_9	43 171	5 <b>7</b> 32	62 320	164
96	Jim Short	65	Feb.13, 1936	1,179	196	62	79	12	745	92	743
100 101	Tabernacle School	22 70	Mar.31, 1936	91		4	28	31	21	23	18
T.) T	T. B. Connell a/ Sulphate less	70 than 10	Fob.13, 1936	<u>666</u>	49	15	180	73	76	310	185

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

				<u>desults</u> ar	e in part			-				
1		Depth	1	Total	5 3 7	Magnes	- Sodium and	Bicar-	9 1	1	Total	
Well	Owner	of	Date	dissolved		ium	Potassium	bonate	Sulphat	e Chloride	hardness	3
No.		well	of	solids	(Ca)	(Mg,	(Na + K)	$(\mathrm{HCU}_3)$	$(SO_4)$	(C1)	as CaCO2	ł
		(ft.)	collection	(calculate	d)		(calculated		1 . 4		(calculat	, ed)
103	H.J. Vibrock	15	Feb. 13, 193	6 1,711	208	100	284	128	115	940 1	933	
104	G. C. Ward	86	do.	341	52	8	68	146	16	124	163	
106	J.H. McAdams	45	Jan.30, 1936	1,779	180	31	470	171	124	835	573	•
107	George Hoose	80	Feb. 17,1936		256	81	150	171	84	760	973	
109	H.J. Adamson	43	Jan. 30,1936		11	19	32	45	<u>a</u> /,	28	105	
111	Magnolia Pipe Lir		8 Mar. 3,1936		7		40	67	a/	35	18	
112	do.	150	do .	318	8	18	92	98	a/ a/ 56	152	95	
113	Mrs. Hugh Day	23	do.	974	80	30	257	403	56	350	324	
115	C. J. Miner	42	do.	101	5	-	36	70	a/	25	15	
116	Roy Simmons	35	Jan. 30,1936		78	32	12	130	a/ 27	53	330	
117	do.	47	do.	1,524	287	104	106	21	930	76	1,343	
118	do.	56	do .	476	120	30	13	20	e/	283	423	
120	G.N. Demus	45	Mar. 6,1936	487	59	32	81	217	<u>ہ</u> 51	156	279	
122	Jim Clements	47	do.	1,409	309	65	121	88	a/	870	1,035	
123	Richardson High S	School	26 do.	5,211	820	348	438	91	a/ 1,800	1,760	3,483	I,
124	Lena Bates	49	do.	1,145	176	70	138	238	197	445	726	77-
125	W.P.A. test well	28	do.	7,082	769	570	1,000	262	462	4,150		1
126	Mrs. Bradley	22	do.	896	113	46	145	180	177	325	473	
206	Betty Davis	80	Apr. 15,1936	525	31	31	132	305	37	144	204	
207	J. S. Adair	75	do .	946	137	24	167	354	308	136	440	
208	do.	47	do .	1,153	167	67	120	146	531	196	691	
210	W.P.A. test well	30	Apr. 6, 1936				-	201	37	118	-	
213	B.C. Whatley	60	do.	139	32	12	2	76	18	38	131	
215	Guy Coleman	35	do.	1163	11	9	35	73	48	24	66	
216	John L. Bonner	74	Apr. 14,1936	653	60	60	71	171	329	49	398	
217	Mrs. M.C. Awalt	60	do.	1,343	-	-		262	61.3	166		
´ 20	Fred Nettles	19	Apr.15, 1936		-			31	<u>a</u> /,	14	-	
221	Paul Bonner	21	do.	172	-		-	122	$\overline{a}/$	46	-	
222	T.R. Bonner	45	do.	2,332	419	113	204	427	1,141	295	1,510	
223 215 228	W.W. Steward			1,223			-	195	215	435 27	-	
25	W.P.A. test well	19 32 89	Apr.14, 1936 May 13, 1936	234 415	-		-	177	215 33 112	27		
228	Marvin Watson	89	Apr.24,1936	415	30	42	62	201	112	$\tilde{7}_{5}$	246	
230	W.P.A. test well	43	May 14, 1936	290	-	-		195 55	31 53	55 35		
233	Douglas Weaver	45	Apr.14, 1936	175	*** ***							

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

 $\underline{a}/$  Sulphate less than 10 parts per million.

				Results are	s in part	and a state of the second	والمحرجا ومراد والشياكات المتلة توجنهم البدان ومصحب والمحمد والمحاد والمحاد والمراد					
		Depth	1	Total 1			Sodium and		ł		Tota	
Well	Owner	of	Date	dissolved			Potassium	bonate		ate Chlorid		
No.		well	of	solids	(Ca)	(Mg)	(Na + K)	$(HCO_3)$	$(SO_{\perp})$	)   (Cl)	as Cal	
		(ft.)	collection			, 			· · · · · · · · · · · · · · · · · · ·		(calcul	_ater)
234	W.P.A. test well	20	Apr.14,1936	31	4	3	4	24	a/ 16	8	22	
235	M.H. Whitaker	29	do.	259	65	14	16	220		40	219	
236	do.	Spring	do.	309	-	-		55	63	112		
237	Jim Frazier	48	Apr. 3,1936	498	-	-	-	18	129	192	-	
2 <b>39</b>	Rich Salter	25	do.	-		5			15	78		
240	Percy McGeorge	-	Apr.16,1936	495	-	-		372	15	1)8	-	
241	W.P.A. test well		do.	277		-	-	134	- 9	90		
242	W.S. Patrick	31	do.	280	32	13	35	- (7)	144	56	132	
244	M.J. Tate	41	do.	136	-		-	61	19	38	-	
245	Leonard York	29	Apr.3, 1936	1,173	119	55	235	146	162	530	524	
246	Colon Willard	28	do.	987	-	-	-	317	354	144	~~~~	
247	W.P.A. test well	37	do.	889	74	23	202	24	318	260	279	
243	S.A. Smith	14	do.	109		-		43	8	40 F ( F		
249	M.J. & W. Tate	42	do.	1,100		-	-	104	93	565	-	
250	Walter Freeman	38	Apr.14,1936	199		-		129	<u>a</u> / 39	60		-78-
253	Arthur Cameron	17	App.13,1936	856		-		433		285		ĩ
254	W. E. Jones	93	do.	-	<b>~</b>	- /	_	-	a/ 61	-	-	
255	Forrest Jones	99	do.	355	45	16	67	232		52	180	
256	Mrs. B.R. Spe <sup>,</sup> d	46	do.	739	137	34	63	171	313	103	481	
257	J. F. Aultman	41	do.	451	_	-		244	102	68	-	
258	W.P.A. test well		do.	628	<b>6</b> 0	30	137	241	7	270	287	
259	Carl Williford	41	do.	1,034	-	-	-	183	443	196	-	
260	Ben Willard	24	June20,1936	1,925	246	86	294	256	698	475	968	
261	Tommie Willard	29	do.	144	-			49	18	50	-	
262	T.R. Donaldson	20	do.	338	-	-	-	116	103	62	-	
263	W.P.A. test well	26	Apr.24,1936	1,409	-		-	250	<u>a</u> /,	770	-	
264	Wallace McGuyer	32	June15,1936	41	-	-	-	31	<u>a</u> /,	10	-	
266	d <b>p</b> .	29	Apr.23,1936	75	-	-	-	24	a] a] a] a]	35	-	
267	Henry Lee	39	do.	69	11	7	6	24	<u>a</u> /,	33	54	
268	Mrs. H. A. Lee	56	do .	43		-		18		18	-	
269	Ord Keaton	50	June15,1936	161	-	-	-	85	20	40	-	
270	do.	20	do.	117	4	13	23	4.3	6	50	63	
271	E.J.Folk	14	Apr.23,1936	42	2	5	7	37	4	6	28	
272	W.P.A. test well	26	do.	39		1	13	6	8	14	2	

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

_			Result	ts are in pa	rts per	million.	والمتركب والمتحيين والمحادث والمستجود ومهور والمتراجع والمتحاد والمتحاد والمتحاد والمتحاد				
1		Depth	1	Total		Magnes-		Bicar-	1		Total
Well	Owner	of	Date	dissolved	Calcivr	n ium	Potassium	bonate	Sulphate	Chlori	dehardness
No.		well	of	solids	(Ca)	$(M_{\rm g})$	(Na + K)	$(HCO_3)$	$(so_{L})$	(C1)	as CaCO <sub>2</sub>
		(ft.)	) collection	(calculated)		1	(calculated)	· )	· 4		(calculated)
273	Jeff Owns	15	Apr. 23, 1936	91			، <sup>ن</sup> یر بر بروی میں میں میں میں میں بیروں میں میں اور میں میں اور اور اور اور اور اور اور اور اور اور	92	a	10	
274	Martha Day	80	Apr. 13, 1936	660	101	34	86	189	<b>1</b> 81	166	391
276	Mrs. J. W. Day	115	June 20, 1936		78	20	107	183	48	220	277
277	Jimmie Day	15	Apr. 13, 1936				-	122	16	20	-
278	Shadrick Thompson	58	June 20, 1936		-	-	-	299	145	<b>1</b> 06	_
279	W.M. Jones	37	do.	1,783	299	74	203	397	702	310	1,501
280	J. L. Shanks	20	Apr. 13,1936	692	-	-		415	39	190	-
282	do.	85	, ob	951	104	35	211	262	57	415	401
283	W.P.A. test well	31	Apr. 3, 1936	337	-			171	a/	126	
284	R. N. Cannon	62	do.	231	-	-		171	29	64	
285	J. L. Miller	32	do.	330				214	50	54	
286	J. E. Irvin & J.E.	32	do.	176	-	-	-	73	61	19	-
	Bishop										
287	Jim Vaughan	21	do.	170	-	-	-	61	31	49	-
288	Vell McAdams	24	do.	881	-	-		317	80	325	
289	Matt Henderson	24	do.	386	29	9	105	214	80	58	111 9
290	W.F.A. test well	25	do.	2,427		-		85	86	1,430	- '
291	John Blakely	37	do.	536				439	58	60	-
292	John Norris	18	do.	2,695	454	77	345	153	1,034	710	1,452
293	J. R. Sessions	22	do.	1,414				281	312	475	
294	W.P.A. test well	29	Mar. 19, 1936	141	6	4	46	85	a/	43	31
296	Johnny George	44	do.	2083	32	6	18	35	a/	110	1.06
297	W.P.S. test well	29	do.	455	16	9	23	159	43	285	76
298	Lake Watson	55	May 29, 1936	923		-	-	390	106	290	
299	Fred Jett	8	do.	30		4	26	55	10	13	17
300	L. R. Boyd	45	do.	510				159	48	200	-
301	W.P.A. test well	29	Feb. 1, 1936	123		3	44	43	10	45	13
302	Billie Watson	25	Mar. 26, 1936	110	4	4	33	61	17	22	28
304	Mary John	11	do.	138		-	-	98	8	30	week
305	Nat McGee	19	do.	140	-	-	-	43	21	43	
306	J.R.B. Cain	29	do.	967	-	-		79	8	570	
307	R.P. Slatter	41	do.	347		-	-	73	8	175	
308	W.P.A. test wcll	<u>3</u> 3	do.	1,718	224	118	252	49	_a/	1,100	1,043
309	Newt, Robinson	40	do.	310				98	19	130	
	o/ Culphoto lote +	10	nonto non mill	ion							

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

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			······································								1	
Well	Owner	Depth	}	Total	1	Magncs-	- Sodium and	Bicar-		5 7	Total	
No.	Owner	of	Date 'd	issolved	Calcium	ium	Potassium	bonate S	Sulphate	Chloride	hardnes	s
TAO •		well	of	solids	(Ca)	(Mg)	(Na + K)	(HCO <sub>3</sub> )	(SO4)	(C1)	as CaCO	3
i	1	(ft.)		alculated)		· 0/	(calculated)	· >			(calcul	atcd)
310	Walter Ely	41	Mar. 26: 1936		1 96	40	65	262	27	215	405	
311	J. H. Eubaiks	47	do.	1,805	-	-	-	134	708	445		
314	Mrs. Misildine	21	June 15, 1936		2	3	41	110	2/	11	17	
315	Johnny Castle	21	do.	126		_		79	20 20	21		
316	J. C. Ritter	15	do.	567	14	13	192	299	61	140		
317	J. F. Day	20	do.	670		-	1/2	384	180	64	66	
318	Marion Willard	30	do.	620		-	_	427	49	128	-	
319	Tom Lindley	28	June 20, 1936	5 453		_	_	146	127	93		
321	W.P.A. test well	29	Apr. 23, 1936	1,444	-	-		49	75	830		
322	F. M. Kent	20	do.	1,219			-	49 299	15 7	620		
324	John Metzger	20 74	May 1, 1936	1,154	150	- 79	196	299 98	221	460	<u>-</u> 699	
325	Feeney & Hall	19	do.	<b>1,1)4</b> 602	38	26	137	90 79	222	140 140	201	
400	J. & G.V. William		Sept.21,1936	133	20		101	49	12	140 52		1
400 401	Chris, Talley	.5 25 95	do.	1 JS 326	-42	21	- 57	49 317				-80-
401 402	Chas. Reese		40.	· 509	121	21	17		35 222	15	193	ř
402 403	E. E. Nettles	79 63	Sept.21,1936		74	22		159		49	394	
404	L. Granville	35	Sept. 22 1026	491 81	74	21	79	311	113	51 10	273	
404	Scott Ward	23	Sept.23,1936		-	-	-	79	<u>a</u> /	10	-	
405	C.H. & E.M. Watso		Sept.21,1936	234	-	- 10		238		25 56	-	
407	W.P.A. test well	n 15 24	Apr.24,1936	231 72	44	10	32	159	12	50 13	151	
407			do.	186		-	-	43				
408	J. C. Granberry Mack Cockrell	63	do.		-	-	-	165	4	29	-	
409		68	do.	463		-	-	110	4	235	-	
414	L. E. Spencer	30	d0 .	90		-	-00	24	7	38	-	
414	W. T. Cole	105	do.	546	53	18	89	220	202	76	204	
	R. Q. Young	10	Sept.23,1936	65	-		-	43	12	8	-	
417	Stanolind Oil Co.		S pt.22,1936	1,488	2	5	595	586	8,	590	28	
413 419	J. H. Granberry Boyd Henderson	47	Apr. 23,1936	149 204			-	67 134	a/ a/	60 60		
419	Mrs. May Casey	41 48	do. June 15,1936		- 388	_ 144	181	134 73	456	1,010	1,564	
423	W.P.A. test well			2,215		144 6	2	75 24	4,0	12		
425	Brady Gunter	32 23	Apr. 23,1936	36 260	4 40	11	45 45	24 159	<u>a</u> / 20	66	33 147	
424 425	J. S. Newman		June 15,1936	200 336	40	11	49	159 207		106		
425 426		55 65	do.			upter	-		27		_	
420 429	John McCann W.P.A. test well	65 25	do. May 19, 1936	174 71	-7	-8	-6	140 12	$\frac{a}{27}$	38 17	<b>-</b> 50	
427	N.F.A. UESU WELL		$\frac{101}{2} \times \frac{1}{2} \times $	and the second second second second second second second second second second second second second second second	<u> </u>	<u> </u>						

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

				SULUS OIR	<u>e in parts</u>	per urr	LTOU!				
	-	Depth		Total	,	Magnes-	- Sodium and	,Bicar-	1		Total
Well	Owner	of			i Calcium	ium	Potassium	bonate	Sulphate	Chloride	hardness
No.		well	of	solids	(Ca)	(Mg)	(Na + K)	$(HCU_{2})$	(S04)	(C1)	'as CaCO3
		(ft.)	collection (	calculate	(he		(calculated	1)! J	1		(calculated
431	W.P.A. test well	30	May 1, 1936	332				98	63	104	
433	do.	37	May19, 1936	69	8	10	3	37	lõ	20	. 61
436	F. E. Hill	23	Apr.27,1936	68		-	-	13	,	34	-
437	do.	Spring	do.	24	-		-	12	a/ a/ 8	9	-
501	W.P.A. test well	32	May <b>l2</b> , 1936	42		-		18	ਭ	1Ó	~
502	do .	30	do.	31		4	5	12	8	8	18
506	F. E. Hill	31	do.	89	2	5	22	37	33	9	23
514	W.P.A. test well	12	Apr. 9,1936	33	Ζ,	1	9	18		15	16
517	Burleson & Red	19	June 9,1936	153	10	9	33	37	57 57	31	61
518	do.	20	do.	264	-+	_	-	18	63	102	
520	W.P.A. test well	26	Apr. 9,1936	914	65	51	137	-	579	82	372
521	Joe Parker	19	June 9,1936	68			-	37	16	10	-
522	Mrs. J. C. Robisc	n 25	do.	440		-		165	43	152	~
524	Mally Woods	28	do.	286	_	-	-	110	57	74	1
525	Shilo School	15	do.	62	11	8	-	24	16	15	
526	W.P.A. test well	20	June 1, 1936		43	68	123		462	166	402 <sup>1</sup>
527	Fanny Malone	16	June 9, 1936			_		37	,	23	
528	do.	22	do.	131		-		6	a/ 14	68	-
529	W.P.A. test well	22	June 1, 1936			-	-	6	131	16	
530	T. H. Lee	14	June 19,1936	62	-		-	12	22	13	
532	W.P.A. test well	13	Apr. 9, 1936		-	-	-	12	176	16	-
534	do.	25	Apr.10, 1936		2	5	1	12		11	24
535	4. C. Gorman	15	June10, 1936			_		12	$\frac{a}{77}$	11	_
536	W.P.A. test well	30	June 3, 1936	271		-	-	-	115	76	~~
537	B. B. Kimbell	70	June 19,1936	207	-		-	-	73	66	
538	Robert Mims	22	do.	55				6	22	12	-
539	W.P.A. test well	24	June 3, 1936		-	-	-	-	159	26	-
540	Myrtle Webb	34	June 19,1936		6	39	51	-	220	68	174
541 543	J. W. Murdock	10	do.	105	-			24 24	22	46 33	
	M. Danel	Spring			2	3	33			33	17
544 545	Mrs. Keeling W.P.A. test well	26 37	do. June 2, 1936	156	z	29	16	24 49	12	<u>19</u>	31
546 547	E. Guess	36 26	June 19,1936		-			12	73	<del>1</del> 28	
247	Jesse Lee	20	do.	741					<u> </u>		

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

1					ويحدادون فيستبد ويستشد فبالكركان فيستشب	lts are 1	and the second se	er million.					
	1	Depth	1		Total '	i.	Magnes-	Sodium and	Bicar-	1	i	Total	
Well	Owner	of	Date	C	dissolved	Calcium	ium	Potassium	'bonate	Sulphat	e Chloride	hardness	
No.		well	of		solids	(Ca)	(Mg)	(Na + K)	$(HCO_4)$	(SO <sub>L</sub> )	(Cl)	las CaCO <sub>2</sub>	
	1	(ft.)	collection (	(cald	culated)			(calculate)	)	4.		(calculate	d)
548	Mrs. E.E.Haddon	11	June 19, 193	36	83		-		18	8	36		
549	W.P.A, test well		June 3, 193		113		***	<del></del>		29	46		
601	William Jones	24	Mar. 26, 19	36	548		-	-	445	8	110	-	
602	J.R.B. Cain	15	do.	-	1,379	175	115	181	329	46	<b>70</b> 0	911	
603	do.	25	do.		250			-	73	46	90	-	
604	do.	27	do.		433	-	-	-	85	8	225	-	
605	W.P.A. test well	. 22	Mar. 27, 19	36	105		7	43	37	26	11	30	
606	F. E. Hill	40	Apr. 25, 19	36	177	-	-	-	61	30	54	-	
607	do.	- 39	do.		92	-	7	28	61	a/ 749	27	27	
609	Riley Middleton	61	do.		1,733	301	88	151	293	74)	300	1,114	
610	W.A. Parker	68	Apr. 7, 19	36	740	-		-	110	183	250	-	
611	Bryant Daniels	85	do.		438	45	45	62	293	24	118	293	
613	Grady Ivy	25	do.		137	-	-		55	57	7	-	
614	Clenon Mullin	33	do.		44			-	37	<u>a</u> / <u>a</u> / 19	9		I.
616	Will Creel	22	Apr. 27, 19	36	42		-	-	24	a/	14		-32
617	W.P.A. test well	- 7	do.		64	5	5	10	6		22	33	I
618	N. L. Richardson		do.		72	9	14	-	24	<u>a</u> /	37	79	
622	G. J. Weaver	19	Apr. 7, 19		573	-	<del>~</del> .	-	61	321	44		
624	Joe McAdmas	31	do.		1,861	191	160	236	134	443	760	1,134	
625	Mt. Zion School	39	do.		1,042	157	91	77	195	276	345	766	
626	A. F. McAdams	48	June 9, 1º		5,023	714	369	503			1,800	3,304	
527	L. V. Jones	25	do.		1,438	137	75	295	464	213	490	651	
629	J. F. Emmons	22	Apr. 7, 193	6	117	-	-	-	122	<u>a</u> /	11		
630	J. S. Ivy	64	do.		459	56	28	ó7	61	120	158	252	
5 <b>31</b>	Leonard Emmons	49	do.		73		-		67	<u>a</u> / 225	1.5		
633	W. L. Glazener	79	Apr. 25,193	5	1,102	-	-	-	336	225	325	-	
63~	Sim Chavers	65	Mar. 27,193	6	500	75	34	52	6]	127	132	326	
636	W.P.A. test well		do.		58	1	7	9	12	19	16	33	
638	W. R. Boyd Jr.	72	do.		1,732	235	154	153	122	380	740	1,220	
639	W.P.A. test well		Mar. 12, 19		2,405	184	113	530	110		1,090	-	
640	T. C. Gardner	27	do.		2,330	259	97	463	442	350	940	1,044	
641	Wm. McIlveen		Apr. 25, 19		1,009	_		-	49	116	515	-	
642	do.	41	do.		477	-		-	122	52	194	-	-
										Charles ( Brand Barren 1990 Ba			

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

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				Ке	sulls are	generation and the subset of the second se	s per milli	on.				
······································	I	Depth		Total		Magnes-	Sodium and	Bicar-			' Total	
Well		of	, Date	dissolved	Calcium	ium	Potassium	bonate	Sulphate	Chlori	de, hardness	
No.	v	well	of	solids	(Ca)	(Mg)	(Na + K)		(SO <sub>4</sub> )	(C1)	as CaCO3	
		(ft.)	collection (	calculated	)		(calculated	d) 4'	1 . 4.		(calculated)	
643	N.P.A. test well	26	Apr. 25 193	6 2,085	-	T		323	457	750		
644	Edith Johnson	7	do.	27		4	5	18	a/	9	17	
645	W.P.A. test well	21	Ma. 27, 1936	3,956	407	183	685	73	1,445	1,200	1,767	
647	W. J. Lane Jr.	64		421	-		-	146	80	120	-	
648	Dew School	48	do .	312		-	-	183	15	90	-	
649	A. H. White	18	do.	80	11	8	8	49	\$	21	60	
650	V. C. Clark	13	June 9, 1936	158	-		-	67	24	44	-	
651	J. A. Harrison	45	Mar. 27,1936	2,116	-	-		610	357	710	-	
653	W. F. Swinburne		Apr. 25,1936	330			-	92	19	146	~	
655	A. Bradshaw	45		159	-		-	110	11	34		
662	Grady Weaver	- 33	May 6, 1936	109	-				- ,	70		
663	G. J. Weaver	31		33	-		-	24	<u>a</u> / 94	8	<u></u>	
665	W. N. Evans		June 9, 1936	551	8	9	136	49	94	230	56	
667	Wood George	- 26		72	-		-	31	8	23	-	1
668	do.	31	do.	211	-		-	55	75	38		ů S
670	A. C. Anderson	35		127	3	11	23	6	8,	74	67	ĩ
675	R. E. Petty	17		57	-	-	-	18	<u>a</u> / 19	27		
676	John Ac Ins	20		97	-	-		49	19	19	-	
677	A. B. Adkins	65		91			-	12	23	31		
678	W.P.A. Cest well		Apr. 23, 1936		-	-	-	12	15	8		
679	O. W. Killiam		June 9, 1936				-	12	23	21	-	
681	Abe Jones	13		176	-		-	18	73,	37	-	
682	do.	22		86	23	7	2	92	<u>a</u> /	9	84	
683	Dan Bryant	45	do.	- 57	+			37	4	14		
684	W.P.A. test well	1 25	5 Apr.30, 1936	5.598	475	377	503	-	3,384	535	2,734	
685	Jim Jones		4 June 9, 1936		2	4	7	31		9	23	
686	W.P.A. test well		3 June 4, 1936		-	-		24	<u>a</u> / 12	15		
687	Mary Collins		June 9, 1936		_	-	-	85	16	60	-	
688	George Moton	20		74			_	37	12	17	***	
691	W.M. Peyton		2 Apr. 30,1936					43	4	19	-	
692	A. Weaver	19		556		31	81	-	357	38	249	
693	do.	17		64	-			24 12	19	11	-	
694	W.P.A. test well	L 20	) do.	354				12	224	24		
<u>697</u>	do.	21	May 18,1936		7	11	28	<del></del>	124	13	61	
	a/ Sulphate less	s thar	1 10 narts per	million.								

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

			Re	sults are	in part	s per milli	en.	<u>^</u>			
	Depth	1 To	otal	1	Magnes-	- Sodium and	Bicar-			; Total	
Well Owner	of	Date di	ssolved	Calcium	ium	Potassium	bonate	Sulphate	Chloride	hardress	
No.	well	of	solids	(Ca)	(Mg)	(Na + K)	$(H^{\mathbb{C}}O_{L})$	$(s0_4)$	(C1)	as CaCO	
110 0	(ft.)	) collection (			,	(calculated	) 4'	4		(calculate	ed)
302 W.P.A. test well	29	Feb. 27,1936	3,550	471	103	744	- 535	t	1,940	1,600	
306 Jim Roper	37	Feb. 3,1936	779	52	18	227	305	<u>a</u> / 55	275	204	
808 B.P. Compton	22	May 29,1936	279		-	-	61	110	47		
809 W.P.A. test well	24	Feb. 1,1936	5,873	559	242	1,290	390	662	2,730	2,393	
810 Lake Watson	17	May 29,1936	137				134		17	~, 5775	
811 G.W. Burleson	32	do.	150	-	9	46	55	a/ 12	56	<b>-</b> 37	
812 W.P.A. test well	33	Feb. 31,1936	1,305	91	46	326	30	207	605	418	
813 C.D. Lindsey	29	Jan. 31,1936	314	39	. 9	238	111	37	150	135	
814 Pyburn School	26	May 19,1936	115	6	Ĺ.	29	37	44	14	33	
815 - Seals	21	Jan. 31,1936	84	32	8	29	30	107	10	113	
816 W.P.A. test well	30	do.	64	1	6	14	24	12	19	25	
317 D.W. Terry	21	Mar. 13,1936	226	10	5	77	204		32	~	
318 W.P.A. test well	23	do.	325	-	18	110	299		43	75	,
819 do.	25	do.	43	2	1	12	12	12	10	ió	-84-
820 P.R. French	11	do.	52	8	4	8	55	<u>a</u> /,		35	Ĩ
821 do.	1,6	do.	47	1	2	15	15	ā/	5 22	íó	
822 W.P.A. test well	29	Fub. 5,1936	1,145	124	49	225	152	186 186	485	513	
824 Tom Blackmon	26	May 15,1936	101	-	-		73		26	-	
826 W.P.A. test well	25	Feb. 21,1936	8/ P	72	25	221	427	<u>a</u> / 90	222	233	
827 – Webb	10	May 15,1936	1,121	-	-		415	248	275	-	
328 P. M. Winfrey	19	do.	1,917	-	-		671	264	635	-	
829 Frank Baggett	21	do.	2,750			-	256	436	1,230		
830 Marshall Harris	13	d0.	126	-	-	-	24	$\frac{a}{48}$	63		
833 J. M. Miller	65	do.	2,431	333	136	392	390		1,330	1,390	
834 W.P.A. test well	16	Feb. 21,1936	3 <b>,</b> 30ú	407	163	308	463	97	2,100	1,689	
835 W.C. Miller	12	May 15,1936	141	-	-		61	39	14	<del>~</del>	
836 Ed. Martin	16	do.	3,225	-		-	262	127	1,810	-	
337 B.C. Gilliam	18	Feb. 10,1936	215	-	3	122	67	8	49	13	
833 W.P./ test well 339 MrsE. Curry	76 55	do.	265 613	-		-	195	7/	298	-	
841 do.	55 50	May 15, 1936	265			-	201	$\frac{7}{a}$	290 54	<u> </u>	
		do.		-	 	-		a	43	102	
842 Mrs. Ada Washburr		do.	274	22	11	75	250	a/ 37	4 <i>5</i> 21	102 -	
844 R. R Long	18	do.	120 38	-	-	-	43 85	$\mathcal{I}$	5	-	
845 W.P.A. test well	29	Feb. 11,1936	38	يىك 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997			<u></u> 0/	(			

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.

Partial	analyses	of wat	er from	wells	in	Freestone	CountyContinued
	Be	e t fue	are in	narts a	oer	million.	

WellDepthTotalMagnes- iumSodium and PotassiumBicer- bonateWellOfDatedissolvedCalciumiumPotassiumbonateSulphateChloNo.Wellofsolids(Ca)(Mg) $(Na + K)$ $(HCO_3)$ $(SO_4)$ (SO_4)	
Well Owner of Date dissolved Calcium ium Potassium bonate Sulphate Chlo	
$\mathbf{x}_{-}$	
No. well of solids (Ca) (Mg) (Na + K) $(HCO_3)$ (SO <sub>1</sub> ) (	Cl) as CaCO <sub>2</sub>
(ft.) col_ection (calculated) (calculated)	(calculated
846 W.P.A. test w 11 24 Feb. 5,1936 202 - 7 62 25 24 81	
847 Wood Goolsby Spring do. 57 1 - 225 37 a/ 15	
848 W.P.A. test well 29 Mar. 13, 1936 3, 433 396 160 580 665 1, 095 870	
349 N.S. Curry 17 do. 4,274 433 173 908 488 461 2,050	
850 do. 38 do. 3,521 455 148 574 408 960 1,130	1,748
851 do. 47 Mar. 13, 1936 5, 324 613 430 650 97 1, 133 2, 450	
852 Tillie McDonald 29 do. 582 40 16 173 478 24 90	
853 Minnie McDonald 48 do. 151 9 3 50 159 $\underline{a}$	
$854$ do, $24$ do, $130$ $10$ $5$ $37$ $122$ $a/$ $1^{\circ}$	
856 do. 29 Feb. 7, 1936 754 100 28 157 378 <u>a</u> / 280	
857 do. 23 do. 2,697 285 114 529 61 559 1,130	
858 Smith Jchnson 37 Mar.24, 1936 420 183 12 162	
859 Oscar Johnson 60 do. 737 207 86 285	
860 Bill Moore 35 do. 459 62 21 36 250 29 139	3 243 ጥ
361 Bob Moore 38 do. 461 232 48 130	
863 Ben Biggs 25 Mar.ll, 1936 1,056 85 38 272 314 19 48	
864 W.P.A test well 30 do. 1,421 54 92 - 794 151 400	
865 B. L. Seely 59 do. 421 29 65 195 36 140	
866 W.M. Partin 16 May 15, 1936 796 586 73 136	
367 do. 31 do. $157 123$ <u>a</u> 31	
868 W.P.A. test well 34 May 11, 1936 3,553 442 175 532 616 1,321 780	
370 do. 19 do. 163 - 5 56 55 42 38	
371 do. 29 Feb.24, 1936 292 19 8 345 36 $\underline{a}$ / 13'	
$872$ J. A. Allison 33 do. 214 32 15 29 73 $\frac{a}{102}$	
872 J. A. Allison $33$ do. $214$ $32$ $15$ $29$ $73$ $a/$ $102$ $873$ J. B. Sandifer $28$ May 15, 1936 $172$ $ 7$ $64$ $183$ $a/$ $112$ $874$ W. T. Beene $35$ do. $158$ $  134$ $a/$ $32$ $875$ Mrs. Bert Wren $22$ do. $105$ $  98$ $a/$ $16$ $876$ W.P.A. test well $17$ Mar.ll, 1936 $295$ $ 23$ $83$ $159$ $32$ $78$	
874 W. T. Beene 35 do. 158 134 <u>a</u> / 31	
375 Mrs. Bert Vren 22 do. 105 98 a/ 10	
876 W.P.A. test well 17 Mar.11, 1936 295 - 23 83 159 32 75	
877 John Epps 28 do. 1,144 34 15 412 903 60 17	
878 A. W. Thompson 18 do. 193 7 3 63 73 32 52	
879 W.J.Shelv 32 do. 1,207 140 86 196 402 64 520	
880 W.P.A. test well 25 do. 1,168 48 46 318 61 201 52	5 310
<u>881 F P. Norman 16 do. 1,311 106 89 259 256 119 610</u>	) 631

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Results are in parts per "illion.													
		Depth				Total			s- Sodium an		1		Total
Well	Owner	of	1	Date	e ;	dissolved	Calcium	ium	Potassium	1 bonate	Sulphate	Chloride	hardness
No.	1 7 1	well		of		solids	(Ca)	(Mg)	(Na + K)	$(HCO_3)$	(so <sub>L</sub> )	(C1)	as CaCO3
		(ft.)	(ft.) collection			(calculated)	1		(calculate	∍d)'	4	1	(calculated
882	- Bowen	37	Mar.	11,	1936	122		3	27	40	38	34	11
884	Henry Daniels	40			1936					275	21	73	
-	F. Peterson				1936		-	-	-	85	15	27	-
	Alice Jerden				1936		-	-	-	12	12	11	-
		• 71	Mar.			1,031	28	97	215	366	411	150	470
391 '	W.P.A. test well	27	May		1936		-	-	-	336	57	110	-
892	• 05	27	Mar.	17,	1936	4,093	464	173	840	1,010	311	1,800	1,871
893 1	L. E. Baty	16		do.	•	118	10	3	34	85	a	29	35
894	do 🗸	45		do.		843	40	26	255	433	56	250	208
896 *	W.P.A. test well	29	Feb.	24,	1936	3,962	393	161	896	732	122	2,030	1,644
897 /	D. F. Farrell	16		do		333	38	6	121	23	87	70	118
898 1	Doyle Newsome	3 <b>3</b>		do.	•	798	88	25	214	153	a	400	223
901 /	Alvis Harris	22		do.	•	256	20	6	73	147	a/	82	78
902 V	W.P.A. test well	23	Feb.	25,	1936	4,054	389	196	880	408	<u>a</u> / 15	2,370	1,779
908	do.	19	May		1936		-		-	12	83	140	- 36
<u>909</u>	do.	<u>1</u>		dó		721	31	25	205	79	86	335	<u>180 ř</u>
o/ Sulphoto logg than 10 parts non million													

Partial analyses of water from wells in Freestone County--Continued Results are in parts per million.



