

TEXAS BOARD OF WATER ENGINEERS

C. S. Clark, Chairman
A. H. Dunlap, Member
J. W. Pritchett, Member



CHILDRESS COUNTY, TEXAS

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

MAY 1942

CHILDRRESS COUNTY, TEXAS

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

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By

W. O. George and Charles V. Foster

This publication contains records of 273 wells, drillers' logs of 10 wells, logs of 29 test holes and the results of chemical analyses of water from 178 wells in Childress County, Texas. A few records from Hall County near the Childress County line are also included because of the importance of this area as a source of water for the City of Childress. The records were collected from August 29, 1940 to March 8, 1941, by Charles V. Foster, Project Supervisor, Project No. 17278 of the Work Projects Administration. This project was sponsored by the Texas State Board of Water Engineers in cooperation with the United States Department of the Interior, Geological Survey, and the City of Childress.

The analyses were made by chemists employed on Work Projects Administration Project No. 17276 under the direction of Dr. E. P. Schech, Director of the Bureau of Industrial Chemistry, The University of Texas, and E. W. Lohr, Chemist of the Quality of Water Division of the Federal Geological Survey. The results of all of the analyses are tabulated in parts per million and 23 of them are also given in milligram equivalents per liter for the convenience of those who prefer this form of expressing the quality of water.

The records serve as a guide to land owners, well drillers and others who need information regarding wells, the depth to ground water in different parts of the county, and the quality and chemical character of water yielded by the wells. They provide useful information for more detailed investigations that are being made by the Texas State Board of Water Engineers in cooperation with the Federal Geological Survey in many parts of Texas.

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

This release was mimeographed by employees of the Work Projects Administration Project No. 17376.

Records of wells in Childress County, Texas
All wells were drilled unless otherwise stated in remarks

Well No.	Distance from Loco	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
1	12 $\frac{1}{2}$ miles west	--	--	225+	4 $\frac{1}{2}$	2.2
2	9 $\frac{1}{2}$ miles west	W. M. Davis	1939	130	5	.9
3	8 $\frac{1}{4}$ miles west	Smith Land and Cattle Co.	1940?	209	8	.0
4	13 $\frac{1}{2}$ miles southwest	W. B. McQueen	--	97	5 $\frac{1}{2}$	.0
5	13 $\frac{1}{4}$ miles southwest	C. L. Caviness	--	325+	5 $\frac{1}{2}$	.0
6	14 $\frac{1}{4}$ miles southwest	A. Hutchinson	--	132	5	2
7	14 $\frac{3}{4}$ miles southwest	F. K. Smith	--	150	5	2
8	do.	J. W. Fowler	--	65	5 $\frac{1}{8}$	1
9	15 $\frac{1}{2}$ miles southwest	Brice Webster	--	32	30	.0
10	17 $\frac{1}{2}$ miles southwest	Mrs. G. W. Holms	--	112	4 $\frac{1}{8}$	2
11	do.	J. F. Forkney	--	38	--	--
12	14 $\frac{1}{8}$ miles southwest	O. Reed	--	47	48	1
13	17 miles southwest	Smith Land and Cattle Co.	Old	121	6	.5
14	12 $\frac{1}{2}$ miles southwest	do.	--	97	6	.2
15	10 miles southwest	do.	Old	75	5	1.7
16	do.	do.	--	73	6	1
17	9 $\frac{1}{2}$ miles southwest	do.	--	61	6	.8
18	9 $\frac{1}{8}$ miles southwest	--	Old	59	6	.3
19	8 $\frac{1}{2}$ miles southwest	--	Old	123	5 $\frac{1}{2}$	--
20	6 $\frac{3}{4}$ miles southwest	W. H. Craven	--	162	8	--
40	3 $\frac{1}{2}$ miles southwest	--	1940	161	5	.6
41	2 $\frac{1}{2}$ miles southwest	--	Old	14	5	1
42	2 $\frac{1}{4}$ miles northwest	--	--	41	5	2
43	4 miles northwest	Jean Lewis	Old	140	4 $\frac{1}{2}$	--

a/ Plus (+) indicates water level is above ground.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline engine; W, windmill; H, hand. Number indicates horsepower.

Chemical analyses of water from most of these wells are shown in a table of analyses on pages 31 to 38.

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
1	134.94	Apr. 9, 1941	C,W	S	
2	115.42	do.	C,W	D,S	
3	132.45	do.	None	S	Cased to bottom. Drilled to supply water for oil test. Will be used for stock.
4	77.50	Jan. 3, 1941	C,W	S	Yield reported small
5	146.51	do.	C,W	S	Do.
6	129.54	do.	C,W	S	Do.
7	122.90	do.	C,W	S	
8	60.79	do.	C,W	S	Yield reported small
9	27.01	do.	C,W	S	Dug well. Failed in 1940.
10	65.84	do.	C,W	S	Cased to bottom.
11	--	do.	C,W	S	Dug well.
12	43.76	do.	C,W	S	Dug well. Cased to 31 feet.
13	112.62	Apr. 9, 1941	C,W	D,S	
14	61.62	do.	C,W	S	
15	44.70	do.	None	S	
16	44.18	do.	C,W	S	Wells 15 and 16 are only 6 feet apart.
17	48.07	do.	C,W	S	
18	55.76	do.	C,W	S	
19	--	--	C,W	S	
20	--	--	C,W	D,S	
40	77.69	Apr. 9, 1941	C,W	S	Cased to bottom.
41	9.89	do.	C,W	D,S	
42	28.76	do.	C,W	S	
43	--	--	C,W	D,S	Cased to bottom.

c/ F, public supply; Irr, irrigation; Ind, industrial; D, domestic; S, stock; N, none.

d/ Reported by driller or owner.

Records of wells in Childress County--Continued

Well No.	Distance from Loco	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
44	2 miles northwest	--	--	54	5	.6
45	In Loco	J. F. Gibson	1910	272	--	--
46	do.	Frank Dorsey	--	175	4	1
47	1½ miles north	J. C. Davenport	--	114	--	1
48	1¼ miles northeast	do.	--	256	6	--
49	2¼ miles northeast	--	--	34	48	3.3
50	4¼ miles northeast	P. W. O'Brien	Old	44	42	1.3
51	6½ miles northwest	--	--	151	5	.5
52	3 miles east	--	--	89	5	.2
53	8½ miles east	A. K. Whiteside Est.	Old	79	5	1.0
54	8½ miles southeast	--	--	71	5	--
55	9½ miles southeast	--	--	54	--	.0
70	7½ miles southeast	--	Old	123	6	.5
71	6½ miles southeast	--	Old	74	6	.2
72	6 miles east	J. A. Wyrick	Old	121	6	1.2
73	4½ miles east	Childress County School	1921	36	30	3.5
74	2¾ miles southeast	-- Wisnand	1937?	97	4	1.3
75	1 mile southeast	S. F. Cox	--	72	--	1
76	2 miles south	T. F. Barnes	--	--	5½	.0
77	4 miles southeast	J. R. Jarvis	--	72	6	--
78	3½ miles south	J. Doneshy Est.	--	88	6	1
79	3½ miles southeast	H. Z. West	--	--	6	1
80	3¼ miles south	J. Doneshy Est.	--	42	4	3.5
81	5½ miles south	R. Mitchell	--	85	5½	--
82	6 miles south	Anderson Mitchell	--	85	5½	.0
83	7¼ miles south	T. H. Smith	--	--	5½	--

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
44	43.37	Apr. 9, 1941	C,W	P,S	
45	d/170	--	C,W	S	No casing. Has supplied 300 head of cattle.
46	78.75	Oct. 11, 1940	C,W	S	
47	68.57	do.	C,W	S	No casing.
48	--	--	C,W	S	
49	30.73	Apr. 9, 1941	C,H	D,S	Dug well.
50	26.74	do.	C,W	D,S	Dug well. Cased to bottom.
51	52.03	do.	C,W	S	
52	84.16	Apr. 8, 1941	C,W	D,S	Bored well. Cased to bottom.
53	67.3	do.	C,W	D,S	
54	64.13	do.	C,W	S	Bored well.
55	44.08	do.	C,W	S	
70	111.32	do.	C,W	S	
71	69.74	do.	C,W	S	
72	83.51	do.	C,W	D,S	Bored well.
73	35.13	do.	C,W	P	Dug well. Cased to bottom. Supplies Arlie School.
74	43.07	do.	C,H	D,S	Cased to bottom. Yield reported small.
75	63.06	Oct. 11, 1940	C,W	--	
76	66.06	do.	C,W	--	
77	--	--	C,W	--	
78	75.95	Oct. 9, 1940	C,W	S	
79	79.71	do.	C,W	S	
80	38.67	do.	C,W	S	
81	--	--	C,W	S	
82	79.93	Dec. 18, 1940	C,W	--	
83	--	--	C,W	S	

Records of wells in Childress County--Continued

Well No.	Distance from Loco	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
100	9 $\frac{3}{4}$ miles south	W. H. Craven	--	101	6	1
101	do.	C. W. Ellis	--	72	6	2
102	9 $\frac{1}{2}$ miles south	--	--	143	6	1
103	9 miles south	C. E. Fletcher	1918	108	6	--
104	8 $\frac{3}{4}$ miles south	May Albright	--	112	5 $\frac{1}{2}$	1
105	9 $\frac{1}{2}$ miles south	W. C. Schafer	1931	115	5 $\frac{1}{2}$	1
107	9 $\frac{1}{2}$ miles southeast	-- Wallenburg	--	96	5 $\frac{1}{2}$	1
108	do.	J. T. Cagel	1940	112	5 $\frac{1}{2}$	1
109	9 $\frac{1}{2}$ miles southeast	Frank Hines	--	67	5 $\frac{1}{2}$	--
110	10 $\frac{1}{2}$ miles southeast	R. E. Smith	--	95	5 $\frac{1}{2}$	1
111	7 $\frac{1}{2}$ miles southeast	Tack Cluck	Old	37	6	.6
112	11 miles southeast	--	--	129	5	.5

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
130	9 $\frac{1}{2}$ miles northwest	Morris Bros.	--	25	30	2.5
131	7 $\frac{1}{2}$ miles northwest	E. M. Gaither	--	45	5 $\frac{1}{2}$	2
132	do.	T. J. Buster	--	60	--	--
133	7 miles northwest	J. W. Faust	--	80	5 $\frac{1}{2}$	1
134	6 $\frac{3}{4}$ miles northwest	G. W. Farmer	--	65	5 $\frac{1}{2}$	--
135	5 $\frac{3}{4}$ miles northwest	J. W. Woods	--	92	5 $\frac{1}{2}$	2
136	5 miles northwest	R. M. Dorsey	--	70	5 $\frac{1}{2}$	1
137	4 miles northwest	J. W. King	--	52+	5 $\frac{1}{2}$	--
138	3 $\frac{1}{2}$ miles northwest	J. Crenshaw	--	105	6	1
139	2 miles northwest	Shirley Martin	1940	80	5 $\frac{1}{2}$	1
140	1 $\frac{3}{4}$ miles northwest	A. J. L. Pierce	--	35	6	.0

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
100	36.22	Oct. 8, 1940	C,W	S	Pumping when measured.
101	67.86	Oct. 10, 1940	C,W	S	
102	106.46	Oct. 8, 1940	C,W	S	Cased to bottom.
103	104.11	do.	C,W	S	
104	99.79	Dec. 16, 1940	C,W	S	
105	108.43	do.	C,W	S	
107	85.98	Dec. 13, 1940	C,W	S	Supply reported small.
108	86.99	do.	C,W	S	
109	--	--	C,W	S	
110	76.34	Dec. 16, 1940	C,W	S	
111	23.71	Apr. 8, 1941	C,W,H	D,S	
112	82.59	do.	C,W	S	

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
130	23.98	Dec. 6, 1940	C,W	S	Dug well. Cased to bottom.
131	35.46	Nov. 28, 1940	C,W	S	
132	--	--	C,W	S	
133	61.82	Oct. 28, 1940	C,W	S	
134	--	--	C,W	D,S	
135	69.45	Nov. 13, 1940	C,W	S	Pumping when measured.
136	50.23	do.	C,W	D,S	
137	--	--	C,W	S	
138	97.02	Nov. 10, 1940	C,W	D,S	
139	75.11	do.	C,W	D,P	Supplies filling station and residence.
140	69.30	Oct. 2, 1940	C,W	D,S	

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
141	5 miles northwest	R. W. Robinson	--	278	5 $\frac{1}{2}$	2
142	6 $\frac{1}{2}$ miles northwest	R. B. Stewart	--	184	5 $\frac{1}{2}$	1
143	7 $\frac{1}{2}$ miles northwest	J. E. Tucker	--	93	5 $\frac{1}{2}$	.0
144	7 $\frac{3}{4}$ miles northwest	T. W. McDeerman	--	32	4	2
145	8 miles northwest	Mrs. R. Greer	--	45	6	2.5
146	8 $\frac{1}{2}$ miles northwest	B. Thigpen	--	100	--	1
149	8 miles north	B. J. Teague	--	173	6	1
150	do.	R. Gibson	--	120	6	1
151	do.	C. L. Carson	--	--	6	--
153	7 $\frac{3}{4}$ miles north	B. Kiper	--	125	6	2
154	do.	B. F. Evans	Old	74	5 $\frac{1}{2}$	2.8
155	7 miles north	V. Wren	Old	46	6	1
156	6 $\frac{3}{4}$ miles north	J. W. Johnson	--	47	5	1
157	7 $\frac{1}{2}$ miles north	J. O. Mayfield	1935	32	--	1
158	9 miles north	E. L. Mullins	--	30	--	1
170	7 $\frac{3}{4}$ miles north	W. Sneed	--	64	8	2
171	do.	C. W. Iverson	--	110	5 $\frac{1}{2}$	1
172	8 miles north	S. E. Brittian	--	126	5 $\frac{1}{2}$	2
173	do.	J. R. Bradley	--	106	5 $\frac{1}{2}$	1
174	8 miles northeast	T. P. Roberts	1928	90	6	1
175	do.	J. H. Eudy	1937	128	5 $\frac{1}{2}$	--
176	8 $\frac{1}{2}$ miles northeast	do.	--	122	5 $\frac{1}{2}$	1
177	9 $\frac{1}{2}$ miles northeast	E. Griffin	--	47*	5 $\frac{1}{2}$	.0
178	9 $\frac{1}{2}$ miles northeast	H. Criffin	--	54	8	1
179	9 $\frac{1}{2}$ miles northeast	do.	--	43	10	2
180	7 $\frac{1}{2}$ miles northeast	W. Norman	--	30	5 $\frac{1}{2}$	--

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
141	98.33	Nov. 19, 1940	C,W	S	
142	52.64	Nov. 23, 1940	C,W	S	
143	66.65	do.	None	N	
144	64.53	do.	C,W	S	
145	32.03	Sept. 18, 1940	C,W	S	
146	95	--	C,W	D,S	
149	147.27	Oct. 4, 1940	C,W	S	
150	104.27	do.	C,W	D,S	
151	--	--	C,W	S	
153	102.61	Oct. 7, 1940	C,W	S	
154	67.90	Oct. 4, 1940	C,W	S	
155	37.58	do.	C,W	S	
156	39.11	do.	C,W	S	
157	30.48	Aug. 17, 1940	C,H	D	Dug well.
158	27.97	Oct. 8, 1940	C,W	S	Do.
170	39.38	Oct. 4, 1940	C,W	D,S	
171	77.67	Oct. 7, 1940	C,W	S	
172	77.13	do.	C,W	S	
173	95.77	do.	C,W	S	
174	72.13	do.	C,W	D,S	
175	--	--	C,W	D,S	Obstructed at 60 feet.
176	72.74	Oct. 7, 1940	C,W	S	
177	42.31	Oct. 8, 1940	C,W	D,S	
178	47.94	do.	C,W	D,S	
179	43.08	do.	C,W	D,S	
180	--	Oct. 17, 1940	C,W	D,S	

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
181	9½ miles northeast	M. Eason	--	120	5½	2
182	10½ miles northeast	J. Morris	--	79+	5½	1
183	11 miles northeast	C. E. Rogers	--	51	6	2.2
186	12 miles northeast	M. Jones	--	168	6	2
187	11 miles northeast	C. E. Rogers	--	114	5½	1
188	10¾ miles northeast	N. W. Galbreath	--	118	6	2
189	11 miles northeast	J. F. Harrell	--	68	6	1
190	do.	S. Barwise	--	138	6	1
191	10½ miles northeast	N. W. Galbreath	--	65	5½	1
192	9½ miles northeast	E. M. Scruggs	--	132	--	--
193	9½ miles northeast	C. E. Crews	--	134	--	2
194	10½ miles northeast	C. M. Duke	1905	180	5½	1
195	9½ miles northeast	B. T. McKeever	1935	290	6	2
196	9½ miles northeast	C. Atcheler	--	90+	5½	--
197	10 miles northeast	M. G. Monnisan	--	20	36	--
198	9 miles northeast	W. D. Lotter	--	14	33	1.5
199	9½ miles east	do.	--	135	6	--
200	10 miles east	L. J. Lotter	Old	120	5½	--
201	10½ miles east	J. F. Carter	--	138	5½	--
202	10 miles east	H. C. Jarrell	--	36	5½	.5
203	9 miles east	C. Bierworth	1925	17	5½	2
204	9½ miles east	do.	--	64	6	.0
205	9½ miles east	J. W. Whitehead	--	185	6	--
206	7½ miles east	M. A. Martin	1925	104	6	--
207	7 miles east	J. Czeroski	Old	18	6	--
220	6 miles northeast	F. & M. Trust Co.	1937	275	5½	2

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
181	92.69	Oct. 17, 1940	C,W	D,S	
182	77.30	do.	C,W	S	
183	40.29	do.	C,W	D,S, Irr	Irrigates garden.
186	81.03	do.	C,W	D,S	
187	63.60	do.	C,W	S	
188	65.63	do.	C,W	--	
189	36.38	do.	C,W	--	
190	101.86	do.	C,W	S	
191	33.71	do.	C,W	S	
192	--	Nov. 4, 1940	C,W	D,S	
193	88.79	do.	C,W	S	
194	104.06	Oct. 17, 1940	C,W	S	
195	119.24	do.	C,W	S	
196	--	Oct. 15, 1940	C,W	S	
197	--	do.	C,H	N	Dug well. Dry hole.
198	11.57	do.	C,H	D,S	Dug well.
199	--	Oct. 14, 1940	C,W	S	
200	--	Oct. 15, 1940	C,W	S	
201	--	do.	C,W	S	
202	24.85	do.	C,W	S	
203	10.90	Oct. 14, 1940	C,W	S	
204	a/ 16	--	C,W	S	
205	--	Oct. 14, 1940	C,W	S	
206	--	do.	C,W	S	
207	--	Sept. 27, 1940	C,W	S	
220	268.34	Nov. 4, 1940	C,W	S	

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
221	5 $\frac{1}{2}$ miles northeast	M. E. Hassell	--	182	5 $\frac{1}{2}$	.0
222	4 $\frac{1}{2}$ miles northeast	F. L. Powell	--	73	5 $\frac{1}{2}$	1
223	4 $\frac{1}{2}$ miles northeast	Mrs. W. Motes	--	35+	6	1
224	4 miles northeast	H. S. White	--	18+	--	--
225	3 $\frac{3}{4}$ miles northeast	N. W. Reeves	Old	210	6	--
226	3 $\frac{3}{4}$ miles northeast	McClain and Rigby	Old	28	36	1
227	5 $\frac{1}{2}$ miles northeast	do.	--	32	5 $\frac{1}{2}$	1
228	3 $\frac{3}{4}$ miles northeast	Mrs. H. Huer	--	269	--	1
229	3 $\frac{1}{2}$ miles northeast	H. Huer	Old	231	7 $\frac{1}{2}$	1
230	3 miles northeast	Mrs. W. Pancake	--	233	6	1
231	2 $\frac{3}{4}$ miles northeast	N. Kennedy	--	--	6	--
232	2 miles northeast	Fred Mitchell	Old	17	--	.0
233	do.	J. T. Casey	Old	28	5	1
234	4 $\frac{1}{4}$ miles north	J. W. Johnson	--	14	--	.0
235	4 $\frac{1}{8}$ miles north	do.	--	22	6	1
236	1 $\frac{3}{4}$ miles northwest	W. H. Newberry	--	124	6	--
237	1 $\frac{3}{4}$ miles north	-- Allbright	--	33	--	2
238	1 $\frac{1}{4}$ miles northwest	W. H. Newberry	--	115	6	1
260	1 $\frac{1}{2}$ miles east	N. D. Rogers	Old	140	6	1
261	do.	W. Taylor	1939	20	4	1
262	1 $\frac{1}{2}$ miles east	L. White	1937	20	5	.0
266	2 $\frac{1}{2}$ miles southeast	B. F. Henshaw	Old	55	6	--
267	2 $\frac{1}{2}$ miles southeast	W. C. Cox	Old	120	6	2.0
268	3 $\frac{1}{2}$ miles southeast	The State of Texas	--	135	6	.5
269	5 $\frac{1}{2}$ miles east	M. E. King Est	--	152	--	.2
270	4 miles east	Carter and Calloway	--	19	42	.5

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
221	172.87	Nov. 4, 1940	C,W	S	
222	54.43	do.	C,W	S	
223	32.89	Sept. 17, 1940	C,W	S	Cased to 40 feet.
224	--	Sept. 26, 1940	C,W	S	
225	d/ 150	--	C,W,G	S	Cased to 40 feet.
226	17.78	Sept. 13, 1940	C,H	S	Dug well. Curbed to bottom.
227	26.01	do.	C,W	S	Supplies 20 head of stock.
228	76.01	Sept. 17, 1940	None	N	No casing.
229	222.62	Sept. 16, 1940	C,W	S	Supplies 30 head of stock.
230	--	do.	C,W	S	
231	--	Sept. 13, 1940	C,W	S	
232	15.68	do.	H	N	Dug well.
233	20.76	Sept. 12, 1940	C,W	S	
234	9.41	Oct. 4, 1940	C,W	Irr	Dug well. Supplies water for garden.
235	19.37	do.	C,W	S	
236	--	Oct. 2, 1940	C,W	S	
237	30.15	do.	C,W	S	Dug well.
238	100.72	do.	C,W	S	
260	d/ 60	--	C,W	S	Supplies 30 head of stock.
261	13.11	Sept. 12, 1940	C,W	S	Cased to bottom.
262	12.04	do.	C,-	Irr	
266	--	Sept. 24, 1940	C,W	--	
267	113.8	Sept. 19, 1940	C,W	--	
268	97.57	do.	C,W	Irr	At roadside park.
269	118.02	Sept. 26, 1940	C,W	S	
270	17.34	do.	C,W	S	Dug well.

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
271	3 $\frac{1}{2}$ miles east	E. J. Hassell	--	20	48	.0
272	4 $\frac{1}{2}$ miles southeast	Federal Land Bank	--	165	--	--
273	do.	W. D. Lotter	--	102+	6	1
274	5 miles southeast	Mrs. L. H. Halford	--	--	--	--
275	5 $\frac{1}{2}$ miles southeast	A. R. Lyne	--	85	6	1.5
276	6 miles east	J. Merchant	Old	117	6	1
277	5 $\frac{1}{2}$ miles east	Central States Life Insurance Co.	1939	132	--	1
278	6 $\frac{1}{2}$ miles east	J. H. Davis	--	21	--	.0
279	do.	J. E. Martin	--	105+	6	1
280	do.	J. D. West	--	53	6	1
281	do.	Jim Collins	1911	73+	--	1
282	6 $\frac{1}{2}$ miles southeast	W. G. Joyce	--	32	5 $\frac{1}{2}$	1
283	6 $\frac{3}{4}$ miles southeast	W. S. Hardin	--	73	6	1
284	7 $\frac{1}{4}$ miles southeast	B. Williamson	--	95	6	--
285	7 miles southeast	M. P. Russell	--	80	6	--
289	do.	W. D. Thomas	--	85	--	1
290	7 miles east	G. S. Witley Est.	1939	120	6	1
291	7 $\frac{1}{2}$ miles east	G. P. Boyd	--	85	6	--
292	7 $\frac{1}{2}$ miles east	S. E. Mayo	--	97	5 $\frac{1}{2}$	1
293	8 $\frac{1}{2}$ miles east	A. H. Keller Est.	--	145	6	--
294	10 miles east	C. V. Eter	--	125	5 $\frac{1}{2}$	1
295	do.	Carter and Eter	--	32	6	1
296	9 $\frac{1}{4}$ miles east	Mrs. C. Bierworth	--	30	5 $\frac{1}{2}$	1
297	9 miles east	N. Loter	--	126	6	1
298	8 $\frac{1}{4}$ miles east	B. P. Brummett	1835	57	5 $\frac{1}{2}$	--
302	8 $\frac{3}{4}$ miles east	J. Hardin	--	--	--	--

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
271	26.71	Sept. 26, 1940	C,W	S	Dug well.
272	d/ 127	--	C,W	S	
273	98.79	Sept. 24, 1940	C,W	S	
274	--	do.	C,W	S	
275	75.22	do.	C,W	S	
276	92.69	do.	C,W	S	
277	28.92	Sept. 26, 1940	C,W	S	Water reported at 35 and 126 feet.
278	20.50	do.	C,H	S	Dug well.
279	79.24	Sept. 27, 1940	C,W	S	
280	44.71	do.	C,W	S	
281	68.76	Sept. 24, 1940	C,W	S	Supplies 12 head of stock.
282	60.02	do.	C,W	S	
283	68.31	Sept. 25, 1940	C,W	S	
284	88.68	do.	C,W	S	
285	--	do.	C,W	S	
289	46.70	Sept. 24, 1940	C,W	N	
290	83.22	Sept. 27, 1940	C,W	S	Cased to bottom.
291	d/ 84	--	C,W	S	
292	76.36	Oct. 14, 1940	C,W	S	Rock reported at 97 feet.
293	--	do.	C,W	S	
294	102.05	Oct. 15, 1940	C,W	S	
295	53.96	do.	C,W	S	
296	63.57	do.	C,W	S	
297	78.54	Oct. 14, 1940	C,W	D,S	
298	a/ 37	--	C,W	S,Irr	Irrigates garden.
302	--	Oct. 16, 1940	C,W	S	

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
304	8 $\frac{1}{2}$ miles southeast	G. E. Howard	1910	85	6	--
305	8 $\frac{3}{4}$ miles southeast	F. H. Hines	--	145+	5 $\frac{1}{2}$	--
306	In Kirkland	J. S. Sharp	--	128	5 $\frac{1}{2}$	.5
325	10 $\frac{1}{2}$ miles northwest	A. J. Brown	1940	105	--	1
326	11 $\frac{1}{8}$ miles northwest	J. E. Scott	--	31	--	1
327	12 miles northwest	G. W. Gresham	--	50	5 $\frac{1}{2}$	1
331	11 $\frac{1}{2}$ miles northwest	W. T. Clifton	--	67	--	.0
332	11 miles northwest	J. A. Clements	--	54	--	1
333	10 $\frac{1}{2}$ miles northwest	T. L. Franks	--	151	--	1
334	7 $\frac{1}{2}$ miles west	G. W. Williams	--	16	30	2.4
335	6 $\frac{3}{4}$ miles west	Earl Williams	1927	76	5 $\frac{1}{2}$	1
336	6 $\frac{1}{2}$ miles west	M. Caradine	--	72	5 $\frac{1}{2}$	1
337	5 $\frac{1}{2}$ miles west	W. F. Isacks	--	62	5 $\frac{1}{2}$	.5
338	4 $\frac{3}{4}$ miles west	G. W. Johnson	--	108+	5 $\frac{1}{2}$	--
339	4 $\frac{1}{2}$ miles northwest	Claud Johnson	--	--	6	--
340	2 $\frac{3}{4}$ miles northwest	J. King	--	124	5 $\frac{1}{2}$	2
360	2 $\frac{3}{4}$ miles southwest	Gord Land & Cattle Co.	1923	156	5 $\frac{1}{2}$	1
361	3 $\frac{1}{4}$ miles southwest	G. E. Alexander	1906	102	5 $\frac{1}{2}$	2
362	4 $\frac{1}{2}$ miles southwest	R. A. Givens	--	106	5 $\frac{1}{2}$	--
363	6 $\frac{1}{2}$ miles west	R. J. Miller	--	82	5 $\frac{1}{2}$	.0
364	6 $\frac{1}{2}$ miles west	M. Jordan	--	200+	5 $\frac{1}{2}$	--
365	7 $\frac{1}{2}$ miles west	Federal Life Insurance Co.	--	35	5 $\frac{1}{2}$	.0
366	7 $\frac{1}{2}$ miles west	R. L. Murray	--	180	5 $\frac{1}{2}$	1
367	8 $\frac{1}{2}$ miles west	Chester Hunter	--	--	--	.0
368	8 $\frac{1}{2}$ miles west	W. J. Hix	1915	92	5 $\frac{1}{2}$	1
369	10 miles west	Mrs. T. A. Atkinson	--	78	5 $\frac{1}{2}$	1

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
304	--	Sept. 25, 1940	C,W	S	
305	--	Oct. 16, 1940	C,W	N	Hole obstructed at 145 feet.
306	85.36	do.	C,W	S,Irr	Irrigates garden.
325	98.97	Dec. 6, 1940	C,W	S	
326	28.69	Nov. 14, 1940	C,H	S	Dug well.
327	45.90	do.	C,W	S	
331	55.42	do.	C,W	S	
332	51.95	do.	C,W	S	Dug well.
333	121.95	do.	C,W	S	
334	8.40	Dec. 6, 1940	C,W	S	Dug well. Cased to bottom.
335	56.60	do.	C,W	S	Cased to bottom.
336	43.87	do.	C,W	S	Do.
337	48.65	do.	C,W	D,S	
338	--	do.	C,W	S	Casing obstructed at 8 feet.
339	--	Nov. 18, 1940	C,W	D,S	
340	92.88	do.	C,W	S	
360	70.02	Nov. 29, 1940	C,W	S	Cased to 48 feet.
361	51.57	do.	C,W	S	Cased to bottom, perforated.
362	91.68	do.	C,W	S	Cased to 40 feet.
363	54.34	do.	C,W	S	
364	--	do.	C,W	S	Hole obstructed at 71 feet.
365	56.16	do.	C,W	S	
366	61.64	do.	C,W	S	
367	87.33	do.	C,W	S	
368	62.58	do.	C,W	S	
369	65.54	Dec. 4, 1940	C,W	S	

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
370	11 miles west	G. A. Smith	--	54	5 $\frac{1}{2}$	1
371	12 miles southwest	M. Diggs	--	58	5 $\frac{1}{2}$	.0
372	11 $\frac{3}{4}$ miles southwest	W. H. Tippitt	--	62	5 $\frac{1}{2}$	2
380	10 miles southwest	T. H. Brown	--	35	5 $\frac{1}{2}$	2
381	9 $\frac{1}{2}$ miles southwest	A. P. Blake	--	50	--	--
382	8 miles southwest	E. C. Canhill	--	45	5 $\frac{1}{2}$	1.5
383	7 miles southwest	A. Woods	--	135+	5 $\frac{1}{2}$	1
384	6 $\frac{3}{4}$ miles southwest	J. Michie	--	97	8	2
385	5 $\frac{1}{2}$ miles southwest	H. Crawford	--	92	6	--
386	5 miles southwest	J. Goodnight	1915	79	5 $\frac{1}{2}$	1
387	4 $\frac{1}{2}$ miles southwest	Claude Canon	--	74	5 $\frac{1}{2}$	1
388	7 miles southwest	S. Howard	--	--	5 $\frac{1}{2}$	.0
389	3 miles southwest	E. Rucker	--	80	5 $\frac{3}{8}$	1
390	7 $\frac{3}{4}$ miles southwest	--	--	153	5 $\frac{1}{2}$	.5
391	9 $\frac{3}{4}$ miles southwest	W. V. McFarland	1917	33	5 $\frac{1}{2}$	2
392	10 $\frac{1}{4}$ miles southwest	J. W. Spain	1900	325	6	1
393	9 $\frac{1}{4}$ miles southwest	M. Mote	--	--	5 $\frac{1}{2}$	--
394	10 miles southwest	N. Jones	--	158	5 $\frac{1}{2}$	1
395	6 $\frac{1}{4}$ miles southwest	E. R. Kelley	--	76	5 $\frac{1}{2}$	2
396	5 $\frac{1}{2}$ miles southwest	M. S. Howard	--	98	5 $\frac{1}{2}$	1
410	4 $\frac{1}{2}$ miles south	R. L. Hughes	--	60	5 $\frac{1}{2}$	--
411	do.	O. H. Smith	--	58	5 $\frac{1}{2}$	2
412	do.	T. Johnson	--	45	5 $\frac{1}{2}$	1
413	5 $\frac{1}{2}$ miles south	J. E. Fields	--	95	--	1
414	6 $\frac{1}{4}$ miles south	T. J. Rutledge	--	--	8	2
415	3 $\frac{1}{2}$ miles south	J. Rhea	--	47	5 $\frac{1}{2}$	.0

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
370	44.53	Dec. 4, 1940	C,W	S	
371	53.74	do.	C,W	N	
372	46.35	do.	C,W	S	
380	26.99	do.	C,W	S	Supplies 24 to 100 head of stock.
381	--	do.	C,W	N	
382	31.41	do.	C,W	S	
383	68.33	do.	C,W	S	
384	70.23	do.	C,W	S	
385	58.79	do.	C,W	S	
386	62.49	do.	C,W	S	
387	63.79	Dec. 5, 1940	C,W,G, 2½	S,Ind	Supplies filling station.
388	73.73	Dec. 9, 1940	C,W	S	
389	54.64	do.	C,W	--	
390	88.50	do.	C,W	N	
391	77.59	do.	C,W	S	Reported to pump down in short time.
392	98.11	do.	C,W	S	Cased to botton. Perforated at 183-223 feet.
393	--	do.	C,W	S	
394	105.17	do.	C,W	S	
395	71.64	do.	C,W	S	
396	89.71	do.	C,W	S	
410	--	do.	C,W	S	
411	46.34	Nov. 1, 1940	C,W	S	
412	29.15	do.	C,W	S	
413	66.45	do.	C,W	S	
414	53.97	Nov. 2, 1940	C,W	S	
415	26.99	Nov. 1, 1940	C,W	S	

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
416	3 miles south	B. Welcher	1940	38	6	1
417	2 $\frac{1}{2}$ miles southeast	W. E. Carter	--	136	5 $\frac{1}{2}$	1
418	2 $\frac{1}{2}$ miles southeast	J. C. Couch	--	165	5 $\frac{1}{2}$	1
419	2 $\frac{3}{4}$ miles southeast	W. L. Underwood	--	--	30	7.5
420	3 miles southeast	W. E. Holtman	--	92	5 $\frac{1}{2}$	1
421	3 $\frac{1}{2}$ miles southeast	M. B. Couch	--	162	5 $\frac{1}{2}$	1
422	4 $\frac{1}{8}$ miles southeast	O. E. Richards	--	148	6	0
423	4 $\frac{1}{2}$ miles southeast	M. Walraven	1918	202	6	1
424	4 $\frac{3}{4}$ miles southeast	McClain and Rigsby	--	139	5 $\frac{1}{2}$	1
425	5 $\frac{1}{2}$ miles southeast	J. Thomas	--	129	6	1
426	do.	W. H. Dorsey	1910	124	--	.5
429	3 $\frac{1}{4}$ miles southeast	Mrs. L. Weaver	--	--	--	--
430	4 $\frac{1}{2}$ miles southeast	-- Thomas	--	100	6	.5
431	4 miles southeast	A. M. Rhyne	1912	117	--	.5
432	5 $\frac{1}{4}$ miles southeast	R. J. Perkins	--	101	5 $\frac{1}{2}$	1
433	5 $\frac{1}{2}$ miles southeast	O. M. Thornton	--	92	5 $\frac{1}{2}$	1
434	do.	R. Perkins	--	76	--	.1
435	5 $\frac{3}{4}$ miles southeast	C. W. Furr	Old	85	5 $\frac{1}{2}$	1
436	6 $\frac{1}{8}$ miles southeast	L. McQueen	--	90	5 $\frac{1}{2}$	.0
437	8 $\frac{1}{2}$ miles southeast	W. F. Snodgrass	--	200+	5 $\frac{1}{2}$	1
438	9 $\frac{1}{2}$ miles southeast	W. R. Jarrell	--	92	5 $\frac{1}{2}$	1
439	10 miles southeast	H. G. Sides	--	106	5 $\frac{1}{2}$	1
440	9 $\frac{3}{4}$ miles southeast	L. H. Green	--	92	5 $\frac{1}{2}$	1
441	10 $\frac{1}{2}$ miles southeast	C. W. Furr	--	--	--	--
442	11 $\frac{1}{2}$ miles southeast	Mollie Low	1933	200+	8	--
443	12 miles southeast	J. W. Pennington	--	168	--	.0

Well No.	Water Level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
416	36.60	Nov. 1, 1940	C,W	S	
417	54.82	Nov. 7, 1940	C,W	S	
418	66.92	do.	C,W	S	
419	22.64	do.	C,W	N	Dug well.
420	64.96	do.	C,W	S	
421	--	do.	C,W	S	
422	104.53	Nov. 6, 1940	C,W	S	
423	192.91	do.	C,W	N	
424	134.88	do.	C,W	S	
425	114.78	Sept. 23, 1940	C,W	S	
426	116	Aug. 19, 1940	C,W	D,S	
429	--	Sept. 23, 1940	C,W	S	
430	81.26	do.	C,W	S	
431	90.38	do.	C,W	S	
432	92.97	Nov. 7, 1940	C,W	S	
433	87.88	do.	C,W	S	
434	66.08	do.	None	N	
435	74.88	do.	C,W	S	
436	98.56	do.	C,W	S	
437	143.04	Dec. 3, 1940	C,W	S	
438	60.70	do.	C,W	S	Cased to 15 feet.
439	104.98	Dec. 2, 1940	C,W	S	
440	36.07	do.	C,W	S	
441	--	Dec. 3, 1940	C,W	S	
442	104.49	do.	C,W	S	
443	140.38	do.	C,W	S	

Records of wells in Childress County--Continued

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
444	13 $\frac{1}{2}$ miles southeast	L. E. Byars	--	80	5 $\frac{1}{2}$	--
445	13 $\frac{1}{2}$ miles southeast	C. W. Furr	--	98	5 $\frac{1}{2}$	1
446	12 $\frac{3}{4}$ miles southeast	Mrs. A. Middleton	--	--	5 $\frac{1}{2}$	--
447	12 $\frac{3}{4}$ miles southeast	R. M. Coats	1900	102	--	--
448	do.	E. M. Close	1918	113	5 $\frac{1}{2}$	1

Well No.	Distance from Loco	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
449	8 $\frac{1}{2}$ miles west	B. P. Smith Land and Cattle Co.	1938	6,007	--	--
450	5 $\frac{1}{2}$ miles southwest	B. P. Smith	1927	3,548	--	--

Well No.	Distance from Childress	Owner	Date completed	Depth of well (ft.)	Diameter of well (in.)	Height of measuring point above ground (ft.)
451	9 miles southeast	Schluter-Lotor	1938	6,007	--	--
452	11 miles southeast	Mollie Low	1935	8,234	--	--
453	1 $\frac{3}{4}$ miles northwest	Ft. Worth and Denver City Ry.	1911	2,075	--	--
454	9 $\frac{1}{4}$ miles southwest	C. L. Smith	1929	4,571	--	--
455	11 $\frac{1}{2}$ miles northwest	City of Childress	1942	90	--	--
456	11 $\frac{1}{2}$ miles northwest	do.	1942	98	--	--
457	12 miles northwest	do.	1942	327	--	--
458	13 miles northwest	City of Childress pumped well	1934	300	--	--
459	In Estelline	Community Public Service No. 2	--	54	--	0.5
460	do.	Community Public Service No. 3	1930	57	--	--

a/ Plus (+) indicates water level is above ground.

b/ T, turbine; Cf, centrifugal; C, cylinder; E, electric; G, gasoline engine; W, windmill; H, hand; Number indicates horsepower.

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
444	d/ 75	Dec. 3, 1940	C,W	S	Reported to go dry in summer.
445	73.19	do.	C,W	S	
446	--	do.	C,W	S	
447	--	do.	None	N	
448	53.53	do.	C,W	S	

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
449	--	--	--	--	Oil test. See partial log.
450	--	--	--	--	Do.

Well No.	Water level		Method of lift	Use of water	Remarks
	Below measuring point (ft.) a/	Date of measurement			
451	--	--	--	--	Oil test. See partial log.
452	--	--	--	--	Do.
453	--	--	--	--	Do.
454	--	--	--	--	Do.
455	--	--	--	--	Drilled by Layne-Texas Company test No. 20. See log.
456	--	--	--	--	Drilled by Layne-Texas Company test No. 19. See log.
457	--	--	--	--	Drilled by Layne-Texas Company test No. 21. See log.
458	d/ 79	Sept. 1934	T,E	P	In Hall County. Supplies City of Childress. Average yearly average from 1935 to 1941.
	d/200	Jan. 1942			167,000,000 gallons; average yield 480 gallons a minute. See log.
459	40.78	Apr. 14, 1942	C,E, 5	P	In Hall County. Dug well. In conjunction with well 460 supplies City of Estelling. Reported
460	--	--	--	P	In Hall County. yield 50 gallons a minute.

c/ P, public supply; Irr, irrigation; Ind, industrial; D, domestic; S, stock; N, none.
d/ Reported by driller or owner.

Table of Drillers' Logs, Childress County, Texas

	Thickness (feet)	Depth (feet)
<u>Well 449, partial log</u>		
B. P. Smith Land and Cattle Company, 8 $\frac{1}{2}$ miles west of Loco.		
Derrick floor	6	6
Surface material	1	7
Caliche	4	11
Red beds	9	20
Gypsum and rock	19	41
Hard gray limestone	15	56
Black shale	6	62
White gypsum	4	66
Hard limestone	3	69
Gypsum and limestone	22	91
Gypsum	5	96
Brown shale	8	104
Limestone and dolomite	3	107
Gypsum	14	121
Red shale	15	136
Sand, gravel and water	20	156
White sand	20	176
Hard sand	8	184
Gypsum	7	191
Red sand and gypsum, hole full of water	28	219
TOTAL DEPTH		5569

	Thickness (feet)	Depth (feet)
<u>Well 450, partial log</u>		
B. P. Smith, 5 $\frac{1}{2}$ miles southwest of Loco.		
Lime and gypsum	40	40
Gypsum and red rock	10	50
Gypsum and rock	10	60
White gypsum	20	80
Red rock	20	100
White gypsum	12	112
Sand, water	1	113
Gypsum	13	126
Shale	4	130
White gypsum	30	160
Shale	5	165
White broken gypsum	20	185
Sticky shale	5	190
Shale	90	280
White gypsum	4	284
Shale	56	340
Red rock	10	350
Shale	90	440
Red rock	10	450
Red rock and salt	60	510
Red rock	40	550
Gravel, sand and water	5	555
Red rock	10	565
TOTAL DEPTH		3548

	Thickness (feet)	Depth (feet)
<u>Well 451, partial log</u>		
Schluter-Loter, 9 miles southeast of Childress.		
Surface, clay and sand	38	38
Gypsum and gravel	12	50
Gypsum, shale and shells	20	70
Shale, sand and gravel	48	118
Shale and shells	68	187
Sand, shale and shells, water	20	307
Gypsum	100	407
Shale, streaks of gypsum	100	507
Shale and gypsum	23	530
Red beds	40	570
Anhydrite	7	577
Red beds	33	610
Red beds, streaks of anhydrite and salt	126	736
Red beds	24	760
Red beds, shale and shells	65	825
Red beds, shale and gypsum	169	994
Salt	11	1005
TOTAL DEPTH		6007

	Thickness (feet)	Depth (feet)
<u>Well 452, partial log</u>		
Mollie Low, 11 miles southeast of Childress.		
Shale	56	56
Limestone	4	60
Gypsum	7	67
Caliche and gypsum	23	90
Limestone	7	97
Anhydrite and gypsum	65	162
Red beds	35	197
Gypsum	19	216
Limestone	7	223
Red beds	12	235
Gypsum	14	249
Anhydrite and shale	11	260
Broken blue shale and lime shells	50	310
Blue shale, shells and limestone	190	500
Red beds, limestone and shells	90	590
Anhydrite	21	611
TOTAL DEPTH		8234

Table of Drillers' Logs, Childress County--Continued

	Thickness (feet)	Depth (feet)
<u>Well 453, partial log</u>		
Ft. Worth and Denver City Railway, $1\frac{1}{4}$ miles northwest of Childress.		
Red dirt	125	125
Gypsum and rock	5	130
Blue clay	15	145
Gypsum and rock	15	160
Blue clay	5	165
Red rock	10	175
Gypsum, rock and dirt	95	270
Brown clay	5	275
Gypsum and rock with red streaks	65	340
Red clay, gypsum and rock	90	430
Red clay	70	500
TOTAL DEPTH		2075

	Thickness (feet)	Depth (feet)
<u>Well 454, partial log</u>		
C. L. Smith, $9\frac{1}{2}$ miles southwest of Childress.		
Surface material	30	30
Red sand	10	40
Red quicksand	22	62
White sand, water	6	68
Red mud	82	150
Blue mud	25	175
Red mud	30	205
White gypsum	10	215
White lime	15	230
Red rock	40	270
White salt	30	290
TOTAL DEPTH		4571

	Thickness (feet)	Depth (feet)
<u>Well 455</u>		
City of Childress test, Layne-Texas Company No. 20, $11\frac{1}{2}$ miles northwest of Childress.		
Clay and some gravel	65	65
Red beds	25	90

	Thickness (feet)	Depth (feet)
<u>Well 456</u>		
City of Childress test, Layne-Texas Company No. 19, $11\frac{1}{2}$ miles northwest of Childress.		
Sand and gravel	48	48
Clay and gravel	25	73
Red beds	25	98

	Thickness (feet)	Depth (feet)
<u>Well 457</u>		
City of Childress test, Layne-Texas Company, No. 21, 12 miles northwest of Childress.		
Sandy clay and gravel	31	31
Sand and gravel	17	48
Clay	1	49
Sand and gravel	15	64
Clay and gravel	7	71
Sandy clay	10	81
Broken clay, sand and gravel	31	112
Red clay	10	122
Soft rock	3	125
Clay	8	133
Hard sand	20	153
Clay	3	156
Sand (did not cut good)	42	198
Clay	21	219
Clay and gypsum rocks	74	293
Hard gypsum rock	11	304
Gypsum rock	12	316
Clay and rocks	8	324
Rock	3	327

	Thickness (feet)	Depth (feet)
<u>Well 458</u>		
City of Childress pumped well, Layne-Texas Company No. 5 in Hall County, 13 miles northwest of Childress.		
Sandy soil	2	2
Fine-grained dry packsand	68	70
Fine-grained cemented sand	106	176
Clay	2	178
Fine-grained cemented sand	122	300

Logs of test holes drilled by W. P. A. labor in Childress County, Texas

	Thickness (feet)	Depth (feet)
<u>147</u>		
B. Thigpen, $9\frac{1}{2}$ miles northwest of Childress.		
Fine-grained buff-colored sand	11	11
Brown sand and gravel	5	16
Fine-grained brown sand and silt	10	26
Sandy red and gray clay	10	36
Red sand and some gravel	2	38
October 4, 1940.		

<u>148</u>		
B. Thigpen, $9\frac{1}{2}$ miles northwest of Childress.		
Sandy brown soil	1	1
Sandy red clay	10	11
Medium-grained buff-colored sand	7	18
Sand and gravel	10	28
October 8, 1940.		

<u>159</u>		
E. L. Mullins, 9 miles north of Childress.		
Fine-grained red sand	2	2
Sandy red clay	1	3
Fine-grained buff-colored sand	5	8
Gray sand and silt	5	13
Sandy red clay, some gravel	6	19
Medium to coarse-grained sand, some gravel	4	23
Struck water at 20 feet. November 1, 1940.		

<u>184</u>		
C. E. Rogers, 11 miles northeast of Childress.		
Fine-grained sand	11	11
Sandy clay	11	22
Fine-grained sand	26	48
November 8, 1940.		

<u>185</u>		
C. E. Rogers, 11 miles northeast of Childress.		
Sand	3	3

	Thickness (feet)	Depth (feet)
<u>185--Continued</u>		
Sandy brown soil	6	9
Sandy red clay	12	21
November 8, 1940.		

<u>239</u>		
City park in Childress.		
Sandy clay	9	9
Gypsy gray sand	3	12
Sandy red clay and streaks of gypsum	20	32
Struck water at 21 feet. Water level, 10.76 feet below land surface, 38 hours after hole completed. September 10, 1940.		

<u>240</u>		
City park in Childress.		
Sandy top soil	1	1
Sandy clay	19	20
Fine-grained red sand	10	30
Sandy red clay and streaks of gypsum	20	50
Sandy red clay and gypsum rock	1	51
Struck water at 16 feet. Water level, 17.70 feet below land surface, 56 hours after hole completed. September 3, 1940.		

<u>263</u>		
L. White, $1\frac{1}{4}$ miles east of Childress.		
Sandy brown soil	2	2
Sandy red clay and streaks of gypsum	32	34
Struck water at 17 feet. Water level, 16.04 feet below land surface, 16 hours after hole completed. September 12, 1940.		

<u>264</u>		
Leonard White, $1\frac{1}{2}$ miles east of Childress.		
Sandy brown soil	3	3
Sandy clay and streaks of gypsum	30	33
Struck water at 21 feet. Water level, 18.17 feet below land surface, 26 hours after hole completed. September 12, 1940.		

<u>265</u>		
W. N. West, $1\frac{1}{2}$ miles east of Childress.		
Sandy brown soil	5	5
(Continued on next page)		

Logs of W. P. A. test holes in Childress County--Continued

	Thickness (feet)	Depth (feet)
<u>265--Continued</u>		
Sandy brown clay	4	9
Fine-grained brown sand	5	14
Sandy clay and some gypsum	22	36
Struck water at 31 feet. September 16, 1940.		

<u>286</u>		
W. H. Thomas, 7 miles southeast of Childress.		
Fine-grained red sand	2	2
Sandy clay and some gypsum	30	32
Gray clay	3	35
September 24, 1940.		

<u>287</u>		
W. H. Thomas, 7½ miles southeast of Childress.		
Sandy red and gray clay	45	43
Coarse-grained white gypsum	2	45
September 27, 1940.		

<u>288</u>		
W. H. Thomas, 7 miles southeast of Childress.		
Sandy gray soil	2	2
Gypsum, sandy clay	39	41
September 24, 1940.		

<u>299</u>		
N. Loter, 9 miles east of Childress.		
Sandy red clay	12	12
Sandy red clay, some gravel	1	13
Coarse-grained sand, some gravel	1	14
Sandy clay and some streaks of gypsum	26	40
Water level, 33.81 feet below land surface, 20 hours after hole completed. October 15, 1940.		

	Thickness (feet)	Depth (feet)
<u>300</u>		
Mrs. C. Bierwirth, 9½ miles east of Childress.		
Sandy red clay	8	8
Fine-grained red sand	1	9
Sandy clay and gypsum	33	42
Struck water at 31 feet. Water level, 32.26 feet below land surface, 38 hours after hole completed. October 16, 1940.		

<u>301</u>		
Mrs. C. Bierwirth, 9½ miles east of Childress.		
Sandy red clay	5	5
Fine-grained red sand	3	8
Sandy red clay and streaks of gypsum	9	17
Brown clay	26	43
Gypsum and sandy gray clay	1	44
Struck water at 35 feet. Water level, 33.34 feet below land surface, 28 hours after hole completed. October 16, 1940.		

<u>303</u>		
W. H. D. Thomas, 8 miles east of Childress.		
Sandy brown soil	1	1
Sandy red clay	7	8
Sandy red clay and gravel	1	9
Sandy red clay and gypsum	20	29
Gypsum and sandy red clay	4	33
September 30, 1940.		

<u>320</u>		
-- Holman, 11 miles northwest of Childress.		
Fine-grained red sand and silt	5	5
Fine to medium-grained sand	1	6
Sandy red clay and some streaks of gypsum	6	12
December 15, 1940.		

Logs of W. P. A. test holes in Childress County--Continued

	Thickness (feet)	Depth (feet)
<u>321</u>		
Owner, --, 10 $\frac{1}{2}$ miles northwest of Childress.		
Sandy red soil	2	2
Silty fine-grained red sand	3	8
Fine-grained red sand	6	14
Sandy red clay	13	27
Fine-grained gray sand	1	28
Sandy red clay	5	33
Struck water at 27 feet. Water level, 24.59 feet below land surface, 240 hours after hole completed. December 11, 1940.		

<u>322</u>		
A. J. Brown, 10 $\frac{1}{2}$ miles northwest of Childress.		
Sandy red soil	2	2
Fine-grained red sand	4	6
Sandy red clay and some streaks of gypsum	8	14
December 11, 1940.		

<u>323</u>		
A. J. Brown, 10 miles northwest of Childress.		
Sandy brown soil	2	2
Fine-grained red sand	5	7
Sandy red clay and gravel	6	13
Sandy red clay	6	19
Fine-grained blue sand	1	20
Sandy red clay	15	35
December 11, 1940.		

<u>324</u>		
A. J. Brown, 10 miles northwest of Childress.		
Sandy brown soil	3	3
Fine-grained red sand	6	9
Red sand and gravel	2	11
Sandy red clay	16	29
December 11, 1940.		

	Thickness (feet)	Depth (feet)
<u>328</u>		
O. L. Tucker, 12 miles northwest of Childress.		
Sandy brown soil	1	1
Silty sand	6	7
Sand and some gravel	5	12
November 14, 1940.		

<u>329</u>		
O. L. Tucker, 12 miles northwest of Childress.		
Sand and gravel	16	16
November 16, 1940.		

<u>330</u>		
O. L. Tucker, 12 $\frac{1}{2}$ miles northwest of Childress.		
Brown sand	2	2
Medium-grained red sand	6	8
Sand and gravel	12	20
November 15, 1940.		

<u>341</u>		
H. Green, 3 miles west of Childress.		
Sandy brown soil	1	1
Fine-grained sand	5	6
Sandy red clay and gypsum	18	24
Struck water at 12 feet. Water level, 13.76 feet below land surface, 86 hours after hole completed. January 10, 1941.		

<u>342</u>		
H. Green, 3 miles west of Childress.		
Sandy red clay	4	4
Fine-grained red sand and some gravel	3	7
Medium to coarse-grained sand and some gravel	2	9
Coarse-grained sandy red clay	4	13
Medium-grained red sand	1	14
Struck water at 11 feet. January 10, 1941.		

Logs of W. P. A. test holes in Childress County--Continued

	Thickness (feet)	Depth (feet)
<u>427</u>		
City of Childress, 3 miles southeast of Childress.		
Sandy clay and some gypsum	21	21
September 18, 1940.		

	Thickness (feet)	Depth (feet)
<u>428</u>		
City of Childress, $3\frac{1}{4}$ miles southeast of Childress.		
Sandy clay	11	11
Gypsum and rock	1	12
Sandy clay and some gypsum	14	26
September 23, 1940.		

Partial analyses of water from wells in Childress County, Texas

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

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
1	-	225±	Apr. 9, 1941	3,564	686	184	139	146	2,294	189	-	b/	2,474
c/ 2	W. M. Davis	130	do.	3,116	651	179	92	220	2,041	94	0.6	b/	2,240
5	C. L. Caviness	325±	Jan. 3, 1941	4,190	638	153	503	159	2,138	680	-	b/	2,224
6	A. Hutchinson	132	do.	3,235	632	149	138	98	2,138	130	-	b/	2,192
7	F. K. Smith	150	do.	3,750	626	165	312	146	2,255	320	-	b/	2,242
8	J. W. Fowler	65	do.	5,281	607	514	273	259	3,499	260	-	b/	3,630
10	Mrs. G.W. Helms	112	do.	3,389	604	175	192	183	2,138	190	-	b/	2,228
11	J. F. Forkney	38	do.	3,812	524	154	441	198	2,411	136	-	48	1,945
12	C. Reed	47	do.	3,569	628	158	277	171	1,983	430	-	b/	2,218
16	Smith Land and Cattle Co.	73	Apr. 9, 1941	4,678	713	154	618	159	2,080	1,035	-	b/	2,414
17	do.	61	do.	3,130	672	132	60	73	2,100	110	-	b/	2,272
19	-	123	do.	2,520	591	81	61	244	1,652	15	-	b/	1,810
42	-	41	do.	3,141	614	122	189	195	1,905	215	-	b/	2,036
c/43	Jean Lewis	140	do.	2,133	448	86	91	207	1,234	126	.3	46	1,472
46	Frank Dorsey	175	Oct. 16, 1940	3,706	618	176	284	104	2,266	310	.9	b/	2,268
49	-	34	Apr. 9, 1941	455	127	38	2	567	a/	7	-	b/	473
50	P. W. O'Brien	44	do.	313	88	15	11	323	12	12	-	b/	284
c/53	A.K. Whiteside Est.	79	Apr. 8, 1941	838	145	55	61	244	292	142	.2	23	589
54	-	71	do.	3,311	637	174	140	214	2,002	243	-	b/	2,308
70	-	128	do.	3,425	624	149	230	183	2,080	252	-	b/	2,172
c/73	Childress County School	36	do.	405	103	24	4	256	118	10	.3	20	355
74	-- Wisnand	87	do.	3,378	590	261	52	92	2,274	150	-	b/	2,548
81	R. Mitchell	85	Dec. 16, 1940	2,565	597	88	52	134	1,672	72	-	b/	1,854
83	T. H. Smith	-	do.	2,865	582	113	129	122	1,877	104	-	b/	1,920
102	-	148	Oct. 8, 1940	3,055	615	121	157	207	1,900	160	.3	b/	2,034
105	W C Schafer	115	Dec. 16, 1940	2,717	591	112	67	122	1,827	56	-	b/	1,940
107	-- Wallenburg	96	Dec. 13, 1940	2,305	596	89	127	98	1,877	68	-	b/	1,955

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Cal- cium (Ca)	Magne- sium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicar- bonate (HCO ₃)	Sul- phate (SO ₄)	Chlo- ride (Cl)	Fluor- ide (F)	Ni- trate (NO ₃)	Total hardness as CaCO ₃ (calc.)
110	R. E. Smith	95	Dec. 16, 1940	3,021	577	116	191	122	1,877	200	-	b/	1,922
111	Tack Cluck	37	Apr. 8, 1941	3,135	611	112	210	183	1,847	262	0.5	b/	1,990
112	-	129	do.	2,868	641	120	56	220	1,905	34	.5	b/	2,094
130	Morris Bros.	25	-	2,714	592	127	42	153	1,839	39	-	b/	2,003
134	G. W. Farmer	65	Nov. 28, 1940	1,158	204	60	79	171	72	659	-	b/	757
135	J. W. Woods	82	Nov. 18, 1940	2,463	415	121	180	214	1,563	106	.2	b/	1,534
136	F. M. Dorsey	70	do.	1,615	293	91	82	134	958	124	.5	b/	1,106
137	J. W. King	52+	Nov. 19, 1940	319	68	32	1	220	65	28	.6	b/	300
138	J. Crenshaw	106	Nov. 18, 1940	1,208	-	-	-	171	653	87	-	b/	-
139	Shirley Martin	86	Nov. 19, 1940	982	188	43	71	165	483	116	-	b/	646
c/140	A. J. L. Pierce	85	Oct. 2, 1940	635	106	30	71	244	209	76	.6	22	389
141	R. M. Robinson	278	Nov. 19, 1940	3,685	617	149	310	85	2,337	230	.3	b/	2,154
142	R. B. Stewart	184	do.	-	-	-	-	-	84	82	-	b/	-
144	T. W. McDeerman	82	Nov. 28, 1940	385	83	18	28	232	38	48	.2	56	281
145	Mrs. R. Greer	45	Sept. 18, 1940	492	82	16	73	262	105	56	-	31	270
c/146	B. Thigpen	100	Aug. 18, 1940	1,082	186	50	102	244	450	140	.7	34	671
147	W. P. A. test	38	Sept. 10, 1940	1,846	342	89	120	311	1,047	95	-	b/	1,220
149	B. J. Teague	173	Oct. 4, 1940	3,167	581	160	190	311	1,823	260	-	b/	2,108
150	R. Gibson	120	do.	2,939	340	100	506	287	1,241	565	-	46	1,262
151	C. L. Carson	-	Oct. 7, 1940	4,090	620	169	482	275	1,939	740	-	b/	2,244
153	B. Kiper	125	do.	3,278	600	169	179	323	2,017	154	-	b/	2,194
c/154	B. F. Evans	74	Oct. 4, 1940	2,173	265	88	363	293	621	610	.1	82	1,024
157	J. O. Mayfield	32	Sept. 17, 1940	407	36	39	66	378	43	6	1.0	30	246
158	E. L. Mullins	30	Oct. 8, 1940	1,963	126	46	518	329	527	560	-	24	503
170	W. Sneed	64	Oct. 4, 1940	957	169	49	83	244	341	154	-	41	625
171	C. W. Iverson	110	Oct. 7, 1940	660	121	41	43	214	256	77	-	b/	470
172	S. E. Brittan	126	do.	2,763	562	70	200	214	1,648	150	-	28	1,692
174	T. F. Roberts	90	do.	2,229	346	116	338	214	1,125	117	-	32	1,342
175	J. H. Eudy	128	do.	1,573	233	69	174	256	776	140	-	50	877
177	F. Griffin	47+	Oct. 8, 1940	1,435	-	-	-	268	640	165	-	38	-
178	H. Griffin	54	do.	1,324	186	63	163	274	551	160	.4	66	724
179	do.	46	do.	541	78	22	80	238	159	47	-	38	283
180	W. Norman	80	Oct. 17, 1940	1,172	202	71	76	244	568	106	.1	29	799

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

c/ Analyses of water from selected wells are given in milligram equivalents per liter on page 38 .

Partial analyses of water from wells in Childress County--Continued

Results are in parts per million

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
c/181	M. Eason	120	Oct. 17, 1940	813	134	54	63	226	261	140	0.4	50	558
182	J. Morris	79+	do.	2,004	397	31	180	134	1,229	67	-	34	1,120
133	C. F. Rogers	51	do.	466	54	13	109	334	42	30	.a	28	138
136	M. Jones	168	do.	883	128	36	126	250	319	135	-	b/	467
187	C. F. Rogers	114	do.	1,074	189	59	75	189	499	127	-	32	716
188	N. W. Galbreath	118	do.	827	158	45	57	250	323	104	-	b/	577
c/190	S. Barwise	138	do.	977	182	47	71	214	445	102	.1	25	649
191	N. W. Galbreath	65	do.	575	78	14	117	366	96	60	-	30	254
192	E. M. Scruggs	132	Nov 4, 1940	1,157	126	29	247	439	315	170	-	54	433
193	C. E. Crews	134	do.	1,142	182	43	152	348	384	180	-	30	632
194	C. M. Duke	180	Oct. 17, 1940	2,125	406	36	212	214	1,229	94	-	43	1,162
195	B. T. McKeever	290	do.	2,473	500	108	100	146	1,613	80	.2	b/	1,696
196	C. Atcheler	90+	Oct. 15, 1940	3,638	615	230	186	153	2,139	340	-	b/	2,432
c/193	W. D. Lotter	14	do.	650	90	63	37	311	269	32	.6	b/	502
199	do.	135	Oct. 14, 1940	3,081	590	133	158	104	2,035	114	-	b/	2,022
200	L. J. Lotter	120	Oct. 15, 1940	2,955	637	111	106	177	1,920	94	-	b/	2,048
201	J. F. Carter	133	do.	3,556	-	-	-	146	2,304	106	-	b/	-
202	H. C. Jarrell	36	do.	2,921	643	87	119	171	1,920	48	-	20	1,964
203	C. Bierworth	17	Oct. 14, 1940	4,388	582	334	468	299	3,072	280	-	b/	2,826
204	do.	64	do.	4,337	415	261	435	281	2,755	310	-	b/	2,612
205	J. W. Whitehead	185	do.	3,297	579	138	244	122	2,074	200	.4	b/	2,014
c/206	M. A. Martin	104	do.	6,100	613	220	1,085	116	3,034	1,090	.7	b/	2,436
207	J. Czeroski	18	Sept. 27, 1940	3,374	634	101	288	268	1,900	285	-	34	2,002
220	F. and M. Trust Co.	275	Nov. 4, 1940	3,725	598	222	230	195	2,419	160	-	b/	2,406
222	F. I. Powell	73	do.	4,559	612	232	508	195	2,573	520	-	b/	2,484
223	Mrs. W. Motes	85+	Sept. 17, 1940	4,893	667	321	403	232	2,948	430	.3	b/	2,998
224	H. S. White	18+	Sept. 26, 1940	6,454	648	438	310	366	3,374	920	-	84	3,420
225	N. W. Reeves	210	Sept. 17, 1940	3,231	616	146	167	220	2,094	100	-	b/	2,140
229	Mrs. H. Huey	231	Sept 16, 1940	3,495	599	148	285	201	2,094	270	-	b/	2,107
c/230	Mrs. W. Pancake	233	do.	3,699	558	168	362	146	2,249	290	.2	b/	2,084
231	N. Kennedy	-	Sept 13, 1940	5,739	-	-	-	220	2,599	1,200	-	b/	-
233	J. T. Casey	28	Sept. 12, 1940	3,658	570	251	210	281	2,249	240	-	b/	2,454
236	W. H. Newberry	124	Oct. 2, 1940	4,460	602	130	658	110	2,366	650	-	b/	2,040
237	-- Allbright	33	do.	912	131	59	98	317	349	104	.6	b/	571

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
238	W. H. Newberry	115	Oct. 2, 1940	4,177	-	-	-	110	2,366	470	-	b/	-
c/240	W. P. A. test	51	Sept. 3, 1940	3,247	279	207	471	378	1,900	195	0.9	b/	1,548
260	N. D. Rogers	140	Sept. 12, 1940	7,075	658	202	1,463	85	2,870	1,840	-	b/	2,474
261	W. Taylor	20	do.	2,146	263	146	208	317	1,241	110	.1	b/	1,270
263	W. P. A. test	34	do.	8,909	746	955	624	397	5,934	455	-	b/	5,790
264	do.	33	do.	12,039	700	1,073	1,585	427	7,291	1,180	-	-	6,163
265	do.	36	Sept. 16, 1940	3,985	598	270	247	305	2,560	160	-	b/	2,606
266	B. F. Henshaw	35	Sept. 24, 1940	3,237	674	145	133	403	1,900	180	-	b/	2,280
267	W. C. Cox	120	Sept. 19, 1940	3,102	638	119	152	293	1,939	110	-	b/	2,084
268	The State of Texas	135	do.	2,774	594	80	166	336	1,551	180	-	38	1,815
269	M. E. King Est.	152	Sept. 26, 1940	3,835	604	169	347	122	2,405	250	-	b/	2,204
c/270	Carter and Calloway	19	do.	4,378	672	280	314	317	2,443	490	-	23	2,832
272	Federal Land Bank	165	Sept. 24, 1940	3,389	589	205	162	244	2,133	170	-	b/	2,316
273	W. D. Lotter	102+	do.	3,401	-	-	-	268	2,056	170	-	b/	-
274	Mrs. L. H. Halford	-	do.	3,460	-	-	-	305	2,056	190	-	b/	-
275	A. R. Lyne	88	do.	3,810	620	155	362	268	2,249	290	-	b/	2,186
276	J. Merchant	117	do.	3,490	564	172	247	171	2,227	138	.1	b/	2,118
277	Central States Life Ins. Co.	132	Sept. 26, 1940	3,453	590	191	213	317	2,133	170	-	b/	2,258
278	J. H. Davis	21	do.	3,256	628	60	308	220	1,939	190	-	b/	1,816
279	J. E. Martin	105+	Sept. 27, 1940	2,968	597	128	133	244	1,900	90	-	b/	2,018
c/280	J. D. West	53	do.	2,824	621	111	67	159	1,823	42	-	82	2,008
281	Jim Collins	78+	Sept. 24, 1940	3,354	598	179	181	232	2,133	150	-	b/	2,230
282	W. G. Joyce	82	do.	3,316	-	-	-	159	2,094	140	-	b/	-
283	W. S. Hardin	73	Sept. 25, 1940	2,587	484	106	163	232	1,668	52	-	b/	1,646
285	M. P. Russell	80	do.	2,982	606	101	171	293	1,900	60	-	b/	1,932
287	W. P. A. test	45	Sept. 27, 1940	3,113	650	151	92	342	1,973	74	-	b/	2,244
290	G. S. Witley Est.	120	do.	3,888	607	164	396	244	2,211	390	-	b/	2,192
291	C. P. Boyd	85	do.	3,580	-	-	-	196	2,094	290	-	b/	-
292	S. E. Mayo	97	Oct. 14, 1940	3,010	600	106	174	195	1,920	104	-	b/	1,936
294	C. W. Eter	125	Oct. 15, 1940	3,740	600	155	341	85	2,342	260	-	b/	2,136
295	Carter and Eter	82	do.	3,139	594	113	221	177	1,920	200	-	b/	1,950

Partial analyses of water from wells in Childress County--Continued

Results are in parts per million

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
297	N. Loter	126	Oct. 14, 1940	3,283	595	135	232	195	2,035	.190	-	b/	2,044
298	B. P. Brummett	57	Oct. 16, 1940	3,228	614	118	224	256	1,958	180	-	b/	2,022
299	W. P. A. test	40	Oct. 15, 1940	1,356	281	59	78	397	672	54	0.3	b/	946
300	do.	42	Oct. 16, 1940	733	189	43	5	543	195	15	-	b/	670
302	J. Hardin	-	do.	3,791	-	-	-	177	2,342	210	-	b/	-
c/304	G. E. Howard	85	Sept. 25, 1940	7,292	650	208	1,544	207	2,948	1,840	.1	b/	2,478
306	J. S. Sharp	128	Oct. 16, 1940	3,195	618	150	147	250	2,074	83	-	b/	2,162
325	A. J. Brown	105	Dec. 5, 1940	3,942	558	115	55	79	2,298	400	.3	b/	1,866
326	J. E. Scott	31	Nov. 14, 1940	1,914	351	93	109	171	1,207	70	.2	b/	1,259
c/327	G. W. Gresham	50	do.	3,317	530	163	227	104	1,877	390	.5	28	2,121
331	W. T. Clifton	67	do.	3,566	570	150	331	104	2,112	320	-	32	2,042
332	J. A. Clements	54	do.	3,155	536	132	258	146	1,915	220	-	22	1,881
333	T. L. Franks	151	do.	3,720	-	-	-	98	2,150	380	-	b/	-
334	G. W. Williams	16	Dec. 5, 1940	2,693	590	121	39	92	1,877	21	-	b/	1,975
335	Earl Williams	76	Dec. 6, 1940	3,162	596	118	231	122	2,068	83	-	83	1,973
336	L. Caradine	72	Dec. 5, 1940	2,856	583	92	155	134	1,724	130	-	106	1,837
337	W. F. Isacks	62	Dec. 6, 1940	2,967	550	121	181	110	1,973	88	-	b/	1,875
338	G. W. Johnson	108 [±]	do.	2,207	406	103	123	104	1,398	20	-	b/	1,439
339	Claud Johnson	-	Nov. 18, 1940	609	106	38	50	293	223	38	.2	b/	424
340	J. King	124	do.	2,053	394	109	93	128	1,194	200	-	b/	1,432
341	W. P. A. test	24	Jan. 10, 1941	447	76	40	23	244	163	25	-	b/	355
c/342	do.	14	do.	1,259	251	55	18	134	167	72	-	630	854
361	C. E. Alexander	102	Nov. 29, 1940	2,784	538	158	75	110	1,877	82	-	b/	1,998
362	R. A. Givens	106	do.	3,016	596	127	140	92	1,973	131	-	b/	2,013
363	R. J. Miller	82	do.	2,816	537	43	210	140	1,724	110	-	68	1,664
365	Federal Life Ins. Co.	35	do.	3,103	537	121	175	110	2,063	38	-	60	1,965
c/366	R. L. Murray	180	do.	3,101	576	116	203	79	2,063	98	.6	b/	1,917
368	W. J. Hix	82	do.	2,880	582	123	115	92	1,915	100	-	b/	1,916
369	Mrs. T. A. Atkinson	78	Dec. 4, 1940	3,053	605	122	164	61	1,877	260	-	b/	2,015
370	G. A. Smith	54	do.	2,509	545	70	118	110	1,666	56	-	b/	1,643
372	W. H. Tippitt	62	do.	2,503	560	44	137	37	1,623	100	-	b/	1,582
380	T. H. Brown	35	do.	3,034	593	116	181	128	1,915	156	-	55	1,972

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
381	A. P. Blake	50	Dec. 4, 1940	2,862	562	114	137	79	1,973	37	-	b/	1,875
382	E. C. Canhill	45	do.	3,208	632	151	129	85	2,068	180	-	b/	2,203
333	A. Woods	135+	do.	2,952	590	140	107	92	1,915	150	-	b/	2,052
394	J. Michie	97	do.	2,854	596	139	68	73	1,877	138	-	b/	2,061
386	J. Goodnight	79	do.	2,949	593	135	104	85	1,973	96	-	b/	2,039
387	Claude Canon	74	Dec. 5, 1940	2,996	585	145	116	55	1,973	150	-	b/	2,060
388	S. Howard	-	Dec. 9, 1940	3,758	715	179	184	67	2,337	310	-	b/	2,526
389	E. Rucker	60	do.	2,938	574	142	122	104	1,877	172	-	b/	2,017
391	W. V. McFarland	88	do.	2,887	537	125	133	122	1,724	250	-	b/	1,857
c/392	J. W. Spain	225	do.	3,980	528	149	517	73	2,394	355	0.5	b/	1,932
393	M. Mote	-	do.	4,501	606	170	603	37	2,394	710	-	b/	2,214
394	N. Jones	158	do.	4,266	617	177	474	93	2,547	400	0.4	b/	2,270
395	E. R. Kelley	76	do.	2,953	582	132	124	73	1,973	106	-	b/	1,996
396	M. S. Howard	98	do.	3,176	614	148	152	98	1,973	235	-	b/	2,141
c/410	R. L. Hughes	60	do.	4,445	610	273	381	110	2,777	350	0.2	b/	2,648
412	T. Johnson	45	Nov. 1, 1940	3,288	580	157	204	165	2,150	116	-	b/	2,096
413	J. B. Fields	95	do.	3,263	655	135	171	207	1,920	280	0.2	b/	2,194
416	E. Welcher	88	do.	6,065	590	399	796	220	3,302	870	-	b/	3,116
417	W. F. Carter	136	Nov. 7, 1940	3,298	579	164	201	146	2,112	170	-	b/	2,122
418	J. C. Couch	165	do.	3,570	571	166	301	122	2,227	245	-	b/	2,112
420	W. E. Holtman	92	do.	3,666	589	200	252	189	2,400	132	-	b/	2,294
421	M. B. Couch	162	do.	4,486	-	-	-	244	2,650	340	-	b/	-
c/426	W. H. Dorsey	124	Aug. 19, 1940	6,813	651	714	477	442	3,723	880	-	150	4,565
429	Mrs. L. Weaver	-	Sept. 23, 1940	3,681	586	173	317	244	2,249	220	-	b/	2,176
431	A. M. Rhyne	117	do.	3,585	613	117	357	293	2,094	260	-	b/	2,012
432	R. J. Perkins	101	Nov. 7, 1940	3,443	532	183	270	220	2,227	118	0.3	b/	2,084
433	O. M. Thornton	92	do.	3,072	554	130	210	244	1,882	122	-	54	1,920
435	C. W. Furr	85	do.	4,534	642	116	692	232	2,150	820	-	b/	2,082
c/437	W. F. Snodgrass	200+	Dec. 3, 1940	1,800	343	98	68	177	1,180	24	0.2	b/	1,261

a/ Sulphate less than 10 parts per million.

b/ Nitrate less than 20 parts per million.

c/ Analyses of water from selected wells are given in milligram equivalents per liter on page 38.

Partial analyses of water from wells in Childress County--Continued

Results are in parts per million

Well No.	Owner	Depth of well (ft.)	Date of collection	Total dissolved solids (sum)	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (NA + K) (calc.)	Bicarbonate (HCO ₃)	Sulphate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.)
438	W. R. Jarrell	93	Dec. 2, 1940	2,462	515	108	72	146	1,666	17	-	b/	1,732
441	C. W. Furr	-	Dec. 3, 1940	4,911	654	192	692	153	2,298	1,000	-	b/	2,424
444	L. F. Byars	80	do.	2,966	620	95	158	183	1,877	126	-	b/	1,938
446	Mrs. A. Middleton	-	do.	3,089	607	116	182	177	1,915	176	-	b/	1,997
448	E. M. Close	115	do.	2,867	606	112	109	201	1,877	64	-	b/	1,974
458	City of Childress, pumped well	300	Oct. 16, 1940	613	131	28	29	142	313	28	-	b/	442
459	Community Public and Service No. 2	54	Apr. 14, 1942	499	61	31	82	364	91	34	-	21	280
460	Community Public Service No. 3	57											

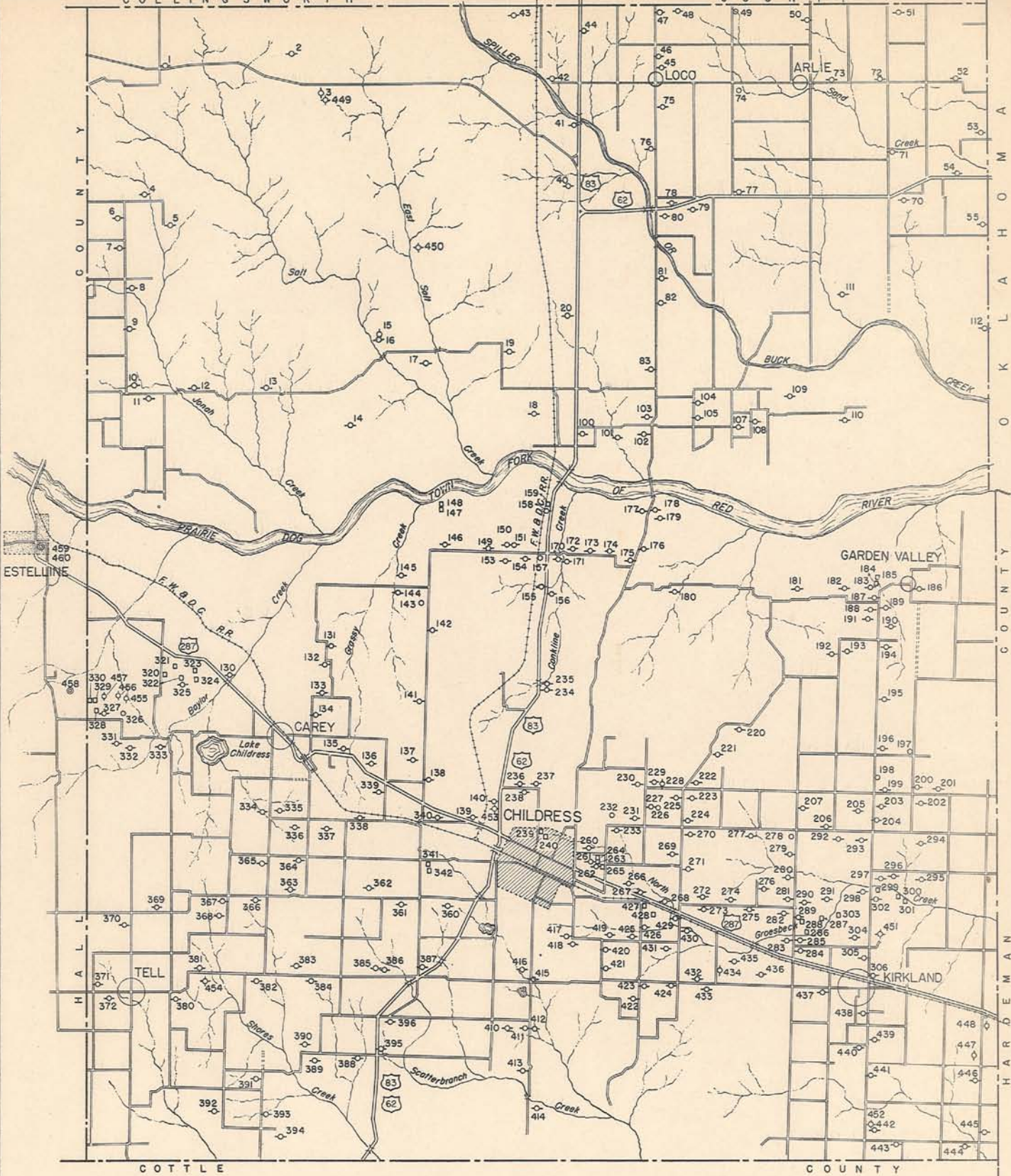
a/ Sulphate less than 10 parts per million.
 b/ Nitrate less than 20 parts per million.

c/ Analyses of water from selected wells are given in milligram equivalents per liter on page 38.

Chemical Analyses--Continued

Results are in milligram equivalents per liter

Well No.	Owner	Depth of well (ft.)	Date of collection	Calcium (Ca)	Magnesium (Mg)	Sodium and Potassium (Na + K) (calc.)	Bicarbonate (HCO ₃)	Sulfate (SO ₄)	Chloride (Cl)	Fluoride (F)	Nitrate (NO ₃)	Total hardness as CaCO ₃ (calc.) ³
2	W. M. Davis	130	Apr. 9, 1940	30.04	14.76	4.01	3.60	42.53	2.65	0.03	-	44.80
43	Jean Lewis	140	do.	22.40	7.04	3.95	3.40	25.70	3.55	.02	0.74	29.44
53	A.K. Whiteside Est.	79	Apr. 8, 1941	7.26	4.52	2.67	4.00	6.08	4.00	.01	.37	11.78
73	Childress County	36	do.	5.14	1.96	0.15	4.20	2.45	0.28	.02	.32	7.10
140	A.J.L. Pierce	85	Oct. 2, 1940	5.30	2.48	3.10	4.00	4.36	2.14	.03	.35	7.78
146	B. Thigpen	100	Aug. 13, 1940	9.32	4.10	4.45	4.00	9.37	3.95	.01	.55	13.42
154	B. F. Evans	74	Oct. 4, 1940	13.24	7.24	15.77	4.80	12.93	17.20	.01	1.32	20.48
181	M. Eason	120	Oct. 17, 1940	6.70	4.46	2.76	3.70	5.44	3.95	.02	.81	11.16
190	S. Barwise	138	do.	9.12	3.86	3.08	3.50	9.28	2.83	.01	.40	12.98
193	W. D. Lotter	14	Oct. 15, 1940	4.43	5.56	1.59	5.10	5.60	0.90	.03	-	10.04
206	M. A. Martin	104	Oct. 14, 1940	30.64	18.08	47.16	1.90	63.20	30.74	.04	-	48.72
230	Mrs. W. Pancake	233	Sept. 16, 1940	27.88	13.80	15.76	2.40	46.86	8.13	.01	-	41.68
240	W. P. A. Test	51	Sept. 3, 1940	13.96	17.00	20.45	6.20	39.59	5.50	.05	.08	20.96
270	Carter and Calloway	19	Sept. 26, 1940	33.60	23.04	13.55	5.20	50.90	13.32	-	.37	56.64
280	J. D. West	55	Sept. 27, 1940	31.04	9.12	2.93	2.60	37.98	1.19	-	1.32	40.16
304	G. E. Howard	85	Sept. 25, 1940	32.43	17.08	67.14	3.40	61.41	51.89	.01	-	49.56
327	G. W. Gresham	50	Nov. 14, 1940	29.02	13.40	9.86	1.70	39.10	11.00	.03	.45	40.42
342	W. P. A. Test	74	Jan. 10, 1941	12.56	4.52	0.79	2.20	3.48	2.03	-	10.16	17.03
366	R. L. Murray	130	Nov. 29, 1940	29.80	9.54	8.34	1.30	43.09	2.76	.03	-	38.34
392	J. W. Spain	223	Dec. 9, 1940	26.40	12.24	22.43	1.20	49.88	10.01	.03	-	38.64
410	R. L. Hughes	60	do.	30.43	22.43	16.57	1.80	57.86	9.87	.01	-	52.96
426	W. H. Dorsey	124	Aug. 19, 1940	32.55	53.75	20.76	7.25	77.57	24.92	-	2.42	91.30
437	W. F. Snodgrass	200+	Dec. 3, 1940	17.14	8.08	2.94	2.90	24.53	0.63	.01	-	25.22



COTTLE

COUNTY

**MAP OF CHILDRESS COUNTY, TEXAS
SHOWING WATER WELLS**

- EXPLANATION —
- WELL WITH HAND PUMP, BUCKET OR BAILER
 - ◊ WELL WITH WINDMILL OR SMALL POWER PUMP
 - ⊗ WELL WITH PUMPING PLANT — 5 HORSE POWER OR LARGER
 - ◇ WELL DRILLED TO TEST FOR OIL OR GAS
 - ◊ UNUSED WELL
 - ◻ TEST WELL DRILLED BY W.P.A. LABOR



BASE COMPILED FROM
STATE HIGHWAY PLANNING SURVEY COUNTY ROAD MAP
AND FIELD NOTES

FIELD WORK BY
CHARLES V. FOSTER
PROJECT SUPERINTENDENT
W.P.A. PROJECT 17278

TEXAS BOARD OF
WATER ENGINEERS
IN COOPERATION WITH
U.S. GEOLOGICAL SURVEY