TEXAS BOARD OF WATER ENGINEERS

C. S. Clark, Chairman
E. V. Spence, Member

John W. Pritchett, Member

BRISCOE COUNTY, TEXAS

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

Prepared in cooperation with the United States Department of the Interior, Geological Survey

September 1946

RECORDS OF WILLS IN BRISCOE COUNTY, TEXAS

By

John H. Dante

September 1946

This report, giving the results of water-well surveys in parts of Briscoe County, Texas, contains records of 180 wells and springs, drillers' logs of 13 wells and chemical analyses of water from 23 wells and springs. It also includes a map showing the location of all recorded wells and springs, each well or spring being given a number on the map corresponding to the number assigned to it in the records. The report was prepared in cooperation between the Texas State Board of Water Engineers and the United States Department of the Interior, Geological Survey.

A large part of the records were obtained by M. F. Miller, U. S. Department of Agriculture, Soil Conservation Service. A part were obtained, and many of the earlier records brought up-to-date by the writer during August and September 1946.

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

The water analyses were made under the supervision of E. W. Lohr, or W. W. Hastings, District Chemists of the Quality of Water Division of the United States Geological Survey, and Dr. E. P. Schoch, Director of the Fureau of Industrial Chemistry of the University of Texas. The results of the analyses relate only to the mineral constituents in the water and not to its sanitary content.

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

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

Records of wells and springs in Briscoe County, Texas
All wells are drilled unless noted in the remarks column.

****	A11 ·	wells are drilled un	less noted in the	remark	s colu		
Well.	from Silverton	Owner	Driller	Date com- ple- ted	Depth of well (ft.)		Height of measuring point above ground (ft.) a/
1	18½ miles i	W. C. Hulsey Est.			Spring	that area	
2	do.	do.			Spring	Service Confession Con	Sand Stee
3	18 miles northwest	do .	von den		Spring	***	
4	$18\frac{1}{2}$ miles northrest	C. Adair Est.	da en	2005-0-1	Spring	···	en bed
5	18 miles northwest	W. C. Hulsey Est.			Spring		
6	$17\frac{1}{2}$ miles northwest	do.	1 -0 t-14		Spring		
7	do.	do.	ente de la companya del la companya de la companya		212	5	
8	17 miles northwest	do.			Spring		
9	16 miles northwest	Dolly Morris and V. Lee Matney	J. F. Davis	1938	270	21	
10	do.	do.	Sears	1917	260	6	
11	₫ò•	Dick Todd		Old	120	6	
12	15½ miles northwest	Dolly Morris and V. Lee Matney	Ed. Davis	1941	170±	6	
13	14½ miles northwest	do.	J. F. Davis		155	24	
14	do.	do.	do.		170	8	
15	$14\frac{1}{2}$ miles north	C. Adair Est.	Humble Oil and Refinery Co.	1932	4010	15년 12년	
16	14½ miles northwest	W. J. Heim	Derrs		146	6	0.2
17	13 miles	May	—		126±	6	0.8
18	do.	Grady Goodpasture	Fish	1946	215	16	1.2
1 9	$11\frac{1}{2}$ miles northwest	Frank Cobb	J. F. Davis	1945	1111	8	0.5
20	do.	. do			Spring		
21	12 miles northwest	J. C. Anderson	C. S. Rice	+	1630	16	
22	11 miles	S. M. Rogers		Old	70	6	10

a/ Measuring point was usually top of casing, top of pipe clamp, or top of pump base or foundation.

b/ Method of lift: T, turbine; C, cylinder; E, electric; G, gasoline, natural gas, butane or oil engine; W, windmill. Number indicates horsepower.

Chemical analyses of water from most of these wells and springs are given in the

	•		table	of ar	nalyses
,	WATER	LEVEL	**************************************		f
Well	Below	Date of	Method	Use	Remarks
	land	measurement	of	of	\
	surface		lift	water	
-	(ft.)		<u>b</u> /	<u>c</u> /	
		<u> </u>	<u>-</u>		
1			Flows	S	In north canyon at head of Deer Creek.
		{			Estimated flow 75 gallons a minute
2			Flows	S	In southwest canyon from many seeps.
į			1		at head of Deer Creek. Estimated flow
		<u>i</u>		1	100 gallons a minute from many seeps.
3			Flows	\$	In south canyon at head of Deer Creek.
				1	Estimated flow 80 gallons a minute
14	~~	***	Flows	N	On fork of Deer from many seeps.
				į 1	Creek. Reported flow 50 gallons a
					minute. Disappears in sand a short
				Ĺ	distance from it's source.
5			Flows	S	On Turkey Creek. Reported flow 200
					gallons a minute from many seeps.
6			Flows	S	On a branch of Turkey Creek. Reported
					flow 200 gallons a minute from many
7	d/173		C.W	D,S	Cased to 193 feet. About 4 seeps.
					mile west of edge of cap rock.
8			Flows	S	In canyon near head of Cedar Creek.
			İ		Reported yield 250 gallons a minute
9	<u>a</u> /235		C,W	S	No casing. Pump set from many secps.
	-		1		260 feet northwest of twin mills
					about 0.3 mile west of edge of cap
10	<u>a</u> /235		C,W	S	No casing. Pump set 260 feet rock.
					southeast of twin mills about 0.3
					mile west of edge of cap rock.
11	<u>d</u> /100		C.W	D,S	
	_				
12	<u>d</u> /130		C.W	D,S	About 15 feet northwest of well is
					well drilled in 1894 to depth of 375
13	d/130		C,W	S	About 0.6 mile feet, now abandoned.
-					west of edge of cap rock.
14	d/130		C,W	S	
				: 	
1 5					Oil test. See log.
	ļ	ļ		-	
16	124.7	Sept. 4, 1946	C.W	D,S	
17	96.0	Sept. 9, 1946	C, 77	D	
	 	<u> </u>	<u> </u>	<u> </u>	
18	95.7	đo.	T.G.	Irr	Reported yield 200 gallons a minute.
16	<u> </u>		184		
1 9	98.0	Sept.10, 1946	C,W	S	About ½ mile west of canyon rim.
			<u> </u>	ļ	
20			Flows	S	Reported yield 10 gallons a minute
	 		1		from many seeps.
21					Cil test. See log.
	+ + -		1	1	
22	45.	Sept. 4, 1946	C.W	. D	!
,			!	!	

c/ Irr, irrigation; P, public supply; D, domestic; S, stock, N, not used. d/ Water level reported by driller or owner.

Well	Distance	Owner	Driller	Date	Depth	: Diam	Height of measuring
HOTT	from	OWNEL	· DLITTAL	! !	_	eter	
	l l			com-		t	point
	Silverton					of	above
i				ted	•	well	ground
						(in.)	(ft.) a/
23	6 miles	Wright B. May	J. F. Davis	1933	110	8	2.0
	northwest						ļ
5/1	do.	C. M. Flowers			Spring		
25	do.	do.			Spring		<u> </u>
					1		
26	9½ miles	Ashel Cross	Jim Watson	1906	83	8	0.5
	northwest					İ	
27	9½ miles	True Burson		1 940	155	21	0.5
28	west 6½ miles	G. B. Mayfield	Ed Davis	1946	216	21	1.0
	west	o, D. May 11010		1 +) 10	240		1.0
29	5 miles	Earl Simpson	J. F. Davis	1946	200	9	
	west						
30	4 <u>ई</u> miles west	do.	da.	1 946	186	21	1.0
31	7g miles	G. R. Mayfield			Spring		
70	northwest 8 miles	C. M. Flowers			Cha se di se au		
32		U. F. Flowers			Spring		
	northwest						
33	do.	do.	Frank Hunt	1945	250	8	
34	8½ miles	ďo.			Spring		
24	northwest	uo.			phrms		
Ý	W 1101 011110 0						
35	35 miles	Crvil Turner	Ann 1-10	01d	170-	8	
-7/-	northwest	77 36 38 L		7000	180		
36	6 miles north	Roy McMurtrie		1906	137	5	
37	7 miles	do.			Spring		
	northwest	-					
38	7분 miles north	do.	J. F. Davis	1942	250	8	
39	6 miles	do .	e-4 ==		Spring		
	north				13		
40	55 miles	R. M. Haverty			Spring		
	northeast						
41	6 miles	Herbert R. Brown	***		Spring		
42	northeast	do.	Frank Hunt	13036	770	8	
+⊂	5½ miles northeast	w.O.	rrain nuit	1916	175	°	
43	43 miles	do.		Old	165 <u>+</u>	8	1.0
_	northeast				;		
1117	4 miles	Lee D. Bomar	J. F. Davis	11935	232	9	
44	north	i	•	1 777		1	

)	WATER	LEVEL			
Well	Below	Date of	· Method	Use	Remarks
ĺ	land	measurement	of	of	İ
ŀ	surface		lift	water	•
1	(ft.)		ъ/ :	<u>c</u> /	1 1
			i - !		
23	84.8	Sept. 10, 1946	C,W .	D,S	Reported to have reached "red bed".
24			Flows	S	On slope of draw. Estimated yield 3-6 gallons a minute from many seeps.
25			Flows	S	At head of draw. Estimated yield
					3 to 10 gallons a minute from many seeps.
26	36.6	Sept. 2, 1946	C,W	D,S	About 100 feet west and north of draw.
27	70.5	Aug. 27, 1946	None	N	Reported yield 200 gallons a minute, considered insufficient for irrigation.
28	103.6	Sept. 11, 1946	None	N	Reported yield 100 gallons a minute,
!		_			considered insufficient for irrigation. "Red beds" at 194 feet.
29	_d/ 1 35		None	N	Abandoned and plowed over. "Red beds" at 200 feet.
30	114.5	Sept. 2, 1946	None	N	Insufficient water for irrigation.
31			Flows	S	"Red beds" at 165 feet. In bottom of canyon. Estimated yield
					200 gallons a minute from many seeps.
32			Flows	S	In breaks of Tule Canyon, near narrows. Reported yield 150 gallons
33	d/140		C. 77	S	a minute from many seeps. In breaks of Tule Canyon.
	<u></u>				III of oears of facto oears one
34	Appr Sales		Flows	S	Seeps supplying pool at foot of lower falls of Tule Creek. Reported yield 10 to 20 gallons a minute.
35	<u>d</u> /170		C,W	D,S	
36	<u>d</u> /123		C, W	S	Casing: 80 feet of 5-inch, from 57 to 137 feet. "Red beds" at 117 feet.
37	***	<u> </u>	Flows	S	In Ross Canyon. Reported yield 3 to 4 gallons a minute from many seeps.
38	<u>d</u> /215		C,W	S	About 0.15 mile west of Coon Creek Canyon. "Red beds" at 200 feet.
39	44		Flows	S	On Coon Creek. Used for stock in winter. Reported yield about 10 gallons a minute.
40		1	Flows	N	Rear head of Coon Creck. Reported yield 1 to 10 gallons a minute.
41			Flows	Й	In Coon Creek Canyon. Reported yield 1 to 5 gallons a minute.
42	<u>d</u> /155		C,W	s	"Red beds" at 170 feet.
43	159.9	Sept. 16, 1946	C,W	D,S	
7477	<u>a</u> /180	a distribution of the second s	None	N	Drilled as test hole. Reported yield 7 gallons a minute. "Red bods" at 232 feet.

	Reco	ords of wells and spr	ings in Briscoe	County-	-Contin	ued.	
			Ì	,			Height of
Well	Distance	Owner	Driller				measuring
!	from		İ			eter	point
1	Silverton		1	-slc		of	above
				ted	(ft.)	well	ground
		1 1 2		:		(in.)	(ft.) a/
45	2½ miles	Mill McCracken	J. F. Davis	1945	200	9	
	northeast					!	
46	25 miles	M. J. O'Neal		1901	140	6	0.5
	northeast						_
47	6€ miles	Dewey Beavers	Dave Lufboro	1931	300⊶	6	2.0
	northeast				400		
48	8 miles	C. Adair Est.	·		Spring		
	northeast						
49	5g miles	J. H. Burson Est.		1912	170	6	2,0
	northeast						
50	6 miles	do.	Frank Hunt	1946	185	6	
	east						
51	7 miles	do.		1905	180	6	
	east				67.6		
52	8් _{වි} miles	Guy McWilliams		01d	210	6	
	east	Min W Cobott			Cho sad to a		····
53	ll miles	Tina E. Schott	E 200 E44		Spring		
101	east	D. R. Blackerby		1077	165	21	
707	9분 miles west	D. R. Stackerby		1937	100	21	
102	8 miles	W. H. Fitzgerald	J. F. Davis	1946	158	21	1.0
102	west	W. II. IIIUZgeraiu	0. F. Davis	1 1940	190	C-L	1.0
103	6½ miles	Redmond	do.	1940	191	16	0.8
-07	west		401	1 - 0	-7-		0.0
104	5 miles	W. J. Mercer	Francis and	1937	250	21	
	southwest		Davis	-,,, ,			
	200000000000000000000000000000000000000		2011-5	1			
105	6 miles	M. A. Graham			200	21	**
	southwest						
ļ				ļ			
106	do.	do.	J. F. Davis	1946	198	21	ī
				į			
				ļ			
107	do.	đo.	do .	1939	200	21	1
				1	j		
108	6 miles	1	3 -	1070			
100		do.	do.	1930	200	21	V-10 ALEX
	west			į			
109	7 miles	do	do.	1946	170	9	0
105	west	uo.	1 40.	-7740	1 -10	フ	U
	WOSU	ile and an					
!			; 1	1		1	
110	8 miles	Guy E. Orr	do.	1946	183	21	
	west	1	, 200	٠، رــ	1 -07		<u> </u>
:		1	•	•	•		
							

	WATER	LEVEL			
Well,	Below	Date of	Mothod	Usc	Romarks
	land .	$ exttt{measurement}$	of	of	
i f	surface		lift	water	
	(ft.)		<u>b</u> /		
45	d/135		C. W	D,S	Drilled as test hole. Reported
		2 200			yiold 20 gallons a minute. "Red
46	135.5	Sept.16, 1946	C,W	D,S	Irrigates bods at 200 feet. garden, \frac{1}{4} acre.
47	198	do.	C,W	D,S	Cased to bottom.
48			Flows	s	Dug out to form a basin. Used
			i Ł		for stock in winter. Reported
			!		yield 10 gallons a minute.
49	138.4	Sept.16, 1946	C, W	D,S	Cased for 10 feet.
50	<u>d</u> /160		C,W	S	
51	<u>d</u> /155		C, W	D, S	Pump set at 175 feet.
			l		
52	<u>d</u> /195		C,W	D, S	Pump set at 200 feet.
53			Flows	S	Reported yield 1 to 5 gallons a
101	<u>a</u> /65		m 4	Irr	minute.
101	<u>a</u>) 05		T,G	11.1.	Reported yield 700 gallons a minute,
102	58.8	Aug. 30, 1946	None	N	Pump not yet set when visited.
					"Red bods" at 157 feet.
103	90.3	Aug. 27, 1946	None	N	Insufficient water for irrigation reported.
104	d/85		None	N	Reported yield 300 gallons a
					minute, considered insufficient
					for irrigation. "Red beds" at
105	78.2	Aug. 31, 1946	None	N	Test hole. Reported 200 fect.
			ļ	į	yield 400 gallons a minute,
					considered insufficient for
106	79•3	Aug. 31, 1946	Hone	l N	irrigation. "Red beds" at 200 Measured yield 400 feet.
100	10.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.0116	1 74	gallons a minute with drawdown to
				1	bottom of well. Insufficient for
					irrigation. "Red bods" at 198 feet.
107	85.9	Mar. 16, 1946	None	N	Roported drawdown 37 feet after
	87.9	Aug. 31, 1946			pumping 450 gallons a minute
	-				for 7 hours in 1946. Considered
					insufficient for irrigation.
108			 		"Red beds" at 200 feet.
100	<u> </u>		None	N	Reported yield 250 to 400 gallons a minute, considered insufficient
					for irrigation. Hole filled in.
109	68.1	Aug. 31, 1946	None	N	Test hole. Reported yield 250
- 2					to 400 gallons a minute.
			1	1	considered insufficient for
				!	irrigation. "Red beds" at 150
110	,		T,G,	Irr	Three stage pump set at feet.
	ŧ	•	95		130 feet. Reported yield 800
	·				gallons a minute.

	neco.	rds of wells and spr	ings in briscoe co	<u>:</u>	oneine	rea	Height of
Well	Distance from	Owner	Driller	com-	Depth of	eter	measuring point
1	Silverton			ple- ted	well (ft.)	of well	above ground
				<u> </u>		(in.)	
111	g miles west	R. N. McDaniels, Sr.	. J. F. Davis	1937	181	21	1.5
112	8½ miles west	J. L. West	do.	1937	176	21	4.0
113	do.	Milton G. Martin	Hollie F. Francis	1946	190	21	0.5
114	9± miles southwest	Diller	Leo Koger	1945	200	21	1
115	10 miles southwest	Orlin Stark	J. F. Davis	19146	175	18	1
116	9 miles southwest	V. A. Readhimer	Leo Moger	1 944	172	14	O: 5
117	9분 miles southwest	Irene Ayres		1939	180	16	1.0
118	9 miles southwest	Alvin Redin	J. F. Davis	1945	1 95	21	l
119	8± miles southwest	Tom Thiteley	do.	1946	202	21	2
120	do.	C. L. Wilson	Green Machinery Co.	1940	300±	21	
121	8 miles southwest	M. A. Craham	J. F. Davis	1946	200	21	1
122	do.	Sam D. Massie	Hollie F. Francis	1946	190	21	1
123	75 miles southwest	L. A. Matthews	J. F. Davis	1938	180	21	1
15/1	8 miles scuthwest	J. E. O'Neal	J. E. O'Neal	1945	198	21	
125	7+ miles southwest	A. C. Mercer	J. F. Davis	1944	220 - 225	21	
126	7 miles southwest	do.	Green Machinery	1938	225	21	0.8
127	. do.	do.	J. F. Davis	1939	225	21	1

*******	WATER	LEVEL	,		
Well	Below	Date of	Method:	Use	Remarks
ļ	land	measurement	of	$\circ f$)
4	surface		lift	water	
	(ft.)		<u>b</u> /	<u>c</u> /	} {
í	, ,				
111	80.	June 19, 1946	T,G,	Irr	Reported drawdown 22 feet when
	77.8	July 1, 1946	95		pumping 800 gallons a minute.
į		Aug. 30, 1946			
112	79.3 80.4	Aug. 30, 1946	T.G.	Irr	Estimated yield 800 gallons a
			125		minute.
113	66.2	May 15, 1945	T,G,	Irr	Pump set at 180 feet. Irrigated
	6g.4	Aug. 30, 1946	125		80 acres of wheat and row crons
					in 1946. Reported yield 750
					gallons a minute. "Red beds" at
114	72,2	Aug. 30, 1946		N	Insufficient water 190 feet.
	,				for irrigation reported,
115	80 . 1	June 19, 1946	T.G.	Irr	Cased to 100 feet. Pump set at
	92.0	Aug. 30, 1946	95	***	150 feet. Estimated yield 600
	,,,,,	2346 JUS 11750			gallons a minute.
116	85.3	Mar. 4, 1946	T,G,	Irr	Drawdown 31 feet on June 19,
	€ J• J	1401 • 19 11/40	95	-11	1946, when pumping an estimated
l					500 gallors a minute.
117	68.6	Mar. 4, 1946	T,G,	Irr	Casing: 100 feet of 16-inch.
111	86.5	June 19, 1946		7 T.T.	Pump set at 130 feet. Irrigating
ļ		Aug. 30, 1946	125		157 acres of wheat and sorghum
118	90.3 82.1	July 1, 1946	——————————————————————————————————————	Irr	Pump set at 150 feet in 1946.
110	○<•∓	JULY 1, 1940	T,G. 95	irr	Irrigating 200 acres of wheat
119	77.2	July 1, 1946	T, G,	Irr	Measured and feed in 1946.
/	80.0	Aug. 30, 1946	125	444	drawdown, 44.1 feet on June 19,
	00.0	2146 JO; 4710	1 -27		1946, when pumping an estimated
120			None	N	Hole 1800 gallons a minute.
			210110	**	drilled to 200 feet, deepened
Į				İ	to over 300 feet. Reported
					yield of 250 gallons a minute,
					considered insufficient for
121	84.3	Aug. 30, 1946	T,G,	Irr	Pump set at 180 irrigation.
		2346 JOF 2710	-,~,	***	feet. Drawdown 29 feet after
1					pumping 800 gallons a minute
122	76.0	June 19, 1946	T,G,	Irr	Irrigating 100 for 12 hours.
	75•5	Aug. 30, 1946	165		acros of feed in 1946. Drawdown
	1,5-5		100		38.9 feet, when pumping an
					estimated 800 gallons a minute.
123	81.8	June 19, 1946	T.G,	Irr	Reported Red beds at 190 feet.
		0 440 47, 47,10	95		yield, 800 gallons a minute.
124	82.7	Aug. 31, 1946	T,G,	Irr	Pump set at 130 feet. Estimated
'	Ŭ• [1145 J1, 1510	90		yield, 800 gallons a minute.
125	d/80		T, G,	Irr	Irrigated 275 acros of wheat
	= 1		125	***	and grain sorghum in 1946.
	,				Reported yield, 800 gallons a
ļ	į				minute. "Red bods at 220 fect.
126 .	88.1	Aug. 31, 1946	T,G,	Irr	Pump set at 120 feet. Reported
120	00.1	Aug. 21, 1940		71.T.	
	!		95	Ī	yield, 800 gallons a minute.
127	8E 0	3 A	·	<u>7,7 ;</u>	"Red beds" at 220 feet.
+41	85.9 :	do.	None	N	Reported yield, 700 gallons a minute. "Rod beds" at 200 feet,
,					

Well	Distance	Owner	Driller	Date			Height of measuring
;	from	, 		com-		eter	point
;	Silverton			ple-	πell	of	above
İ				ted	(ft.)		ground
	•					(in.)	(ft.) <u>a/</u>
128	6 miles southwest	∏. J. Mercer	do.	19143	215 <u>+</u>	21	
129	6 miles	do.	Francis and	1937	300	21	
	southwest		Davis			And the state of t	Camping and the special specia
130	5½ miles	do.	Green Machinery	1936	264	21	
	southwest Co.		Co.				
131	do.	J. B. McGraw	J. F. Davis	1946	219	21	1.5
132	5 miles	Joe O'Neal	Joe O'Neal		200 <u>+</u>	21	1
133	southwest 45 miles	Ed Vaughn	J. F. Davis	1946	200	21	1
	southwest	_	0, f. Davis	_			
134	9½ miles southwest	do∙	do.	1946	212	20	
	southwest						
135	5号 miles	O. R. Tipps	Louis Francis		240	21	0
136	southwest 6 miles	Bud McMinn	J. F. Davis	1946	215	21	1
-) •	southwest						
137	do.	Lydia Lewis	do.	1946			
138	do.	L. W. Francis	Hollie F. Francis	1945	216	21	2
139	6 miles	do.	Francis and	1937	370	21	1
	southwest		Davis				
140	do.	do.	J. F. Davis	1937	237	21	4
141	7늘 miles	E. R. Long	Hollie Francis	1946	220	21	
142	southwest	3	J	1016	207		1
142	do.	do.	do•	1946	223	21	1.5
143	9 miles	Carl Wimberly	do.	1946	210	21	1.3
-	southwest						
144	do.	Earl Cantwell	G. L. Manning	1936	222	21	1
145	9 miles	do.	Louis Francis		225	21	
_	southwest	ω.	TOUTS TIGHTOTS			; C-	_
146	10년 miles	Allen Kellum	J. F. Davis	1945	206	; 21	1.6
	southwest				1	1	<u> </u>

	WATER	LEVEL		· · · · · · · · · · · · · · · · · · ·	
Well	Below	Date of	Method	Use	Remarks
ļ	land	measurement	of	of	
	surface	1	lift	water	
	(ft.)	;	<u>b</u> /		} {
	, ,	† •			
128		***	T,G,	Irr	Pump set at 140 feet. Reported
- 1			93		yield 800 gallons a minute. *Red
129			None	N	Reported beds" at 215 feet.
-					yield 200 gallons a minute,
					considered insufficient for
					irrigation. Hole filled to
130			Mone	N	Reported yield 300 surface.
					gallons a minute, considered
			1 1		insufficient water for
131	79.4	Aug. 29, 1946	T,G,	Irr	Irrigated 42 acres prigation.
_			165		of beans and row crops in 1946.
		2			Reported yield, 800 gallons a
					minute. "Red beds" at 219 feet.
132	87.6	do.	T,G,	Irr	Estimated yield 800 gallons a
J	,		95		minute.
133	79.6	do.	None	N	Insufficient water for
	1,,,,				irrigation. "Red beds" at 178
134	d/80		T,G,	Irr	Pump set at 130 feet. See log-
-, .	<u> </u>		125		feet. Reported vield 800
			/		gallons a minute. See log.
135	79.4	Aug. 29, 1946	Mone	N	Reported yield 250 gallons a
-00	10•1	1 4 4 4 4 4 4 4	""		minute, considered insufficient
136	81.4	do.	T,G,	Irr	Reported for irrigation.
-J*			125		drawdown 103 feet, when
					pumping 500 gallons a minute.
137				N	Drilling for irrigation when
				<u>-</u> .	visited.
138	75•5	Aug. 29, 1946	None	N	Drilled for irrigation. Pump
	12.2				not set when visited.
139	75.8	do.	None	N	Drilled to 225 feet, deepened
دري	1,50-				to 370 feet. Reported yield
					300 gallons a minute, considered
					insufficient for irrigation.
140	76.5	Aug. 9, 1946	T,G,	Irr	Pump set at 120 feet. Measured
	82.6	Aug. 29, 1946	92		drawdown 28 feet after pumping
					800 gallons a minute for 2 to
141	·		None	N	Drilled for irrigation. 3 days.
	į	-	1(0120	***	Pump to be installed.
142	78.9	July 23, 1946	T,G,	Irr	Pump set at 185 feet. Drawdown
/	g1.9	Aug. 28, 1946	140		100 feet on July 3, 1946, after
	•		1 -10		pumping 1100 gallons a minute
143	85.7	July 1, 1946	 	N	Drilled for \for one hour.
	85.7	Aug. 30, 1946	_	-	irrigation. Pump pulled and
	1	, ==06• JU; =JTU :	j	į	lying at side of well. Reported
	į	, , ,			yield 200 gallons a minute.
744	68.0	Mar. 29, 1946	T.G.	Irr	Pump set at 130 feet. Estimated.
 , ¬⊤	77.1	Aug. 25, 1946	85		yield 350 gallons a minute.
145	65.9	Aug. 30, 1946	None		Insufficient water for
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1 -1 Co J V 9 - J T V	1,0110	±v ;	irrigation.
146	59.4	July 1, 1946	T.G.	Irr	Pump set at 170 feet. Measured
± T∪	66.2	Aug. 25, 1946	120		
	. 00.2	Aug. 27: 1740	1 LCU	····	yield 350 gallons a minute.

-

Records of wells and springs in Briscoe County---Continued Height of Well: Diam- measuring Distance Owner Driller Date Depth cometer from of point Silvertson ple- |well ofabove (ft.) ted mell ground (in.) (ft.) a/ 147 ll miles J. W. Read J. F. Davis 1946 215 21 1 southwest 148 $10\frac{1}{5}$ miles Carl Wimberly do. 1937 218 21 1 southwest 149 10 miles Edwin Crass 1936 220 21 ī southwest 150 9등 miles Francis School g 0.5 --southwest 151 10 miles Edwin Crass Green Machinery 1946 215 21 southwest Co. J. F. Davis $10\frac{1}{5}$ miles Scott Smithee 152 1946 225 21 southwest 153 do. J. Lee Francis Francis and 1937 226 21 Davis 154 1937 226 18 do. Edwin Crass do. 1.0 R. E. Bell 1936 200 1.0 155 10 miles Lewis Francis 21 southwest 156 Green Machinery do. do. 1937 275 14 __ Co. **157** Leo Koger 14 13등 miles Mrs. L. G. Conner 1938 230 --southwest 158 14 miles Mrs. Eula S. 250 15 L. W. Francis 1940 southwest Bramlett 159 H. H. McPherson Hollie Francis 1946 212 18 $13 \pm$ miles 1 southwest 160 210 16 do. W. D. Mance 1938 161 13 miles J. B. Mercer Finis L. Moore 210 16 1938 southwest 162 111 do. Dr. Conrad Frey Earl Sassamen 1937 219 0.6 163 $12\frac{1}{c}$ miles 1946 ; 230 16 do. D. B. Mathis southwest

	WATER	LEVEL			
Well	Below	Date of	Method	Use ;	Remarks
	land ;	measurement	of	of .	
1	surface		lift	water	
	(ft.)		b/	<u>c</u> /	
-					
147	66.7	July 1, 1946	T,G,	Irr	Pump set at 180 feet. Irrigating
1			120	,	50 acres of feed. Estimated
1					drawdown 112 feet, when pumping
1					350 gallons a minute. See log.
148	66.5	Dec. 13, 1946	T.G.	Irr	Pump set at 148 feet. Irrigating
	71.7	July 1, 1946	125		150 acres of sorghum in 1946.
					Reported yield, 800 gallons a
					minute in 1938; estimated yield
					650 gallons a minute in 1946.
					Drawdown around 22.5 feet in
149	77 . g	May 7, 1936	T,G,	Irr	Pump set at 116 feet. 11946.
			125		Measured drawdown 20 feet in
· · · · · · · · · · · · · · · · · · ·					1936, when pumping 815 callons
150	71.4	May 7, 1936	C.W	P	a minute.
·		Aug. 25, 1946			
151			T,G,	Irr	Pump set at 150 feet. Reported
750			125		yield 400 gallons a minute.
152	<u>a</u> /70		T.G.	Irr	Irrigated 65 acres feed.
			125		Reported yield, 800 gallons a
77				<u> </u>	minute. "Red bcds" around 225
153	<u>a</u> /75		T, G,	Irr	Reported yield, 800 feet.
3 (-)1	70 -	77 707	95		gallons a minute.
154	82.5	Dec. 13, 1938	None		Cased to bottom. Pump moved to
	93•5	Aug. 25, 1946			well 151, but will be replaced.
					Reported yield 750 gallons a minute in 1946.
155	82.4	Dec. 13, 1938	None	N	Reported yield 700 gallons a
±99	83.8	Aug. 25, 1946	1,0116	10	minute in 1938, abandoned in
156	82.9	Dec. 13, 1938	None	N	1942.
-)	84.2	Aug. 25, 1946	2,0110	*	<u> </u>
157			T,G,	Irr	Cased to bottom. Pump set at
•			95		110 feet. Estimated yield 700
158		***	T,G,	Irr	Cased to gallons a minute.
			95		bottom. Reported yield 700
159	85.6	June 26, 1946	T,G,	Irr	Casing from gallons a minute.
	87.3	Aug. 25, 1946	95		76 to 212 feet. Pump set at 120
					feet. Measured yield 500 gallons
160			T, G,	Irr	Casing from 132 to a minute.
			120		132 feet. Pump set at 132 feet.
					Irrigated 60 acres of feed in
161	88.8	Aug. 25, 1946.	T, G,	Irr	Casing from 80 to 130 1946.
			95		feet. Pump set at 110 feet.
					Irrigated 100 acres of feed in
				<u> </u>	1946. Reported yield 800 gallons
162	89.6	do.	T.G.	Irr	Casing:219 foot with a minute.
			95		192 fect perforated. Pump set
					at 120 fect. Reported yield 800
	_		<u> </u>	<u> </u>	gallons a minute. See log.
163			None	N	Drilling for irrigation when
·-	1	1	· 	<u> </u>	visited August 31, 1946.

	11600	rds of wells and spr	ings in bilscoe of	oun cy-	- CON CIN	luea	Height of
Well,	Distance from Silverton	Owner	Driller	com-	Depth of well (ft.)	Diam- eter of well	measuring point above ground
	į		1	1	(200)	(in.)	(ft.) a/
164	9½ miles southwest	W. H. Steel	Hollie Francis	1946	250	21	
165	, qo.	do.	Dale Smith	1945	256	21	1
166	9 miles southwest	Hollie Francis	Hollie Francis	1946	230	21	1
167	9号 miles southwest	Charles Francis	do.	1946	270	21	2
168	10 miles southwest	Dr. Charles E.	H. O. Bogle	1945	200	18	1.2
169	9ੀ miles southwest	Fulton Gregg	J. F. Davis	1 9/i/i	208	21	3
170	미출 miles southwest	A. L. Meyer	L. P. Davis and Sons	1946	220	16	2
171	do.	W. A. Holt	Matthews	1946	200	14	3•5
172	do.	E. Dickerson	L. P. Davis and Sons	1946	200	16	1.5
173	do.	W. C. Payne	W. C. Tye	1944	242	12	
174	do.	J. V. Nelson		1945	233	16	3•5
175	ll miles southwest	Grady Wimberly	L. W. Francis	1940	210	16	1
201	Z mile southwest	Villiam Harden	J. F. Davis	1945	234	21	0
202	In Silvertson	City of Silverton City well no. 1	Dave Lefboro	1929	200	12	1
203	do.	City of Silvertson City well no. 3	J. F. Davis	1939	410	16 <u>+</u> 8	0.5

	WATER	IE7EL			
Well	Belo™	Date of	Method	Use	Remarks
	land	measurement	of	of	
Ì	surface		lift	water	
	(ft.)		<u>b</u> /	<u>c</u> /	
	(= 0,			ے ا	
164			T,G,	Irr	Estimated yield 350 gallons a
			95		minute. Reported drilled to
165	84 . 8	Aug. 28, 1946	None	N	Reported yield 375 "red beds".
		1			gallons a minute, considered
			1		insufficient for irrigation.
1					"Red beds" at 254 feet. See log.
166	83.4	d.o •	None	N	Drilled for irrigation. Pump
	٠, • (٥	0.0	1,0110		not yet set.
167	85.3	Aug. 9, 1946	T,G,	Irr	Measured yield 347 gallons a
	84.1	Aug. 28, 1946	125		minute.
168	87.2	June 18, 1946	T, G,	Irr	Casing: 150 feet of 18-inch
100	91.8	June 26, 1946	120	***	Pumo set at 1114 feet. Drawdown
	97.2	Aug. 28, 1946	120		8.5 feet, when pumping 700
į	21.5	Aug. 20, 1940			gallons a minute. See log.
169	306.7	1016		Irr	
109	106.3	Aug. 28, 1946	T, G,	TLL	Irrigating 216 acres of alfalfa,
			120		sorghum, wheat and grass in
					1946. Reported yield 800 gallons
7.70		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			a minute. "Red beds" at 208
170	91.3	Mar. 18, 1946	T,G,	Irr	Casing: 155 feet of 16- feet.
	93.1	June 26, 1946	120		inch with 115 feet perforated.
1	93.3	July 18, 1946			Pump set at 144 feet. Irrigating
	96.4	Aug. 28, 1946			160 acres maise, wheat and row
					crops in 1946. Measured drawdown
					15 feet, after pumping 800
					gallons a minute for 24 hours.
171	98.4	Aug. 28, 1946	T,G,	Irr	Casing: 144 feet of See log.
			125		14-inch. Pump set at 144 feet.
					Estimated yield 800 gallons a
172	98.5	July 22, 1946	T,G,	Irr	Cased 160 feet to minute.
	100.4	Aug. 28, 1946	140		bottom. Pump set at 144 feet.
					Irrigated 180 acres sorghum and
					prairie grass. Reported yield
		,			800 gallons a minute. See log.
173			T,G,	Irr	Casing: 243 feet of 12-inch,
			95		with 179 feet perforated. Pump
			Į.		set at 130 feet. Reported yield
					800 gallons a minute. See log.
174	102.5	Aug. 28, 1946	T.G.	Irr	Casing 228 feet of 16-inch.
					Pump set at 134 feet. Reported
	1				yield 800 gallons a minute. See
175	108.3	June 26, 1946	T,G,	Irr	Casing: 210 feet of 16- log.
			125		inch. Pump set at 120 feet.
					Measured drawdown 38 feet, when
					pumping 900 gallons a minute.
201	98.3	Aug. 27, 1946	Mone	N	Drilled 21-inch hole to 210
					feet, 9-inch hole to 234 feet.
202	d/120		C.E.	P	Pump not yet set. "Red beds" Casing: 140 feet at 234 feet.
_					of 12-inch. Reported yield 40
203	116.9	Aug. 27, 1946	5 T,E,	P	of 12-inch. Reported yield 40 Casing: 200 gallons a minute.
	1	:	3	_	feet of 16-inch, 80 feet of 8-
	1	• •	: <i>)</i>		inch. Reported yield 50 gallons
	ı		•		a minute. "Red beds" at 200 feet.
				·	TITITE OF TIME SOUR SIVE TOOLS

Records of wells and springs in Briscoe County---Continued Height of Well Distance : Owner Driller Date | Depth | Diam - measuring point from com- of eter ple-|well above Silvertson ofted (ft.) ground well (ft.) a/ (in.) 504 $\frac{1}{2}$ mile City of Silverton, Leo McDade 1933 202 southeast City well no. 2 205 ğ mile City of Silverton J. F. Davis 1946 200 14 1.0 southeast 206 45 miles 1945 190 21 1.0 L. A. McJimsey do. east 207 10등 miles Boy Scouts of Spring __ Silverton east 208 5 miles R. J. Donnell J. F. Davis 1946 210 21 1 southeast 23 miles 1945 209 Tony Burson 226 do. southeast 1.5 210 13 miles do. 190 21 do. 1945 southeast 211 1945 200 True Burson 9 do. do. 1945 212 l miles Johnny Lanham do. 185 21 1.0 southwest 3 miles Joe O'Neal Joe O'Neal 1945 21 213 200+ --southwest $2\frac{1}{4}$ miles 1944 21 0.5 214 True Burson J. F. Davis 210 southeast 2 miles 215 1938 200 20 0.4 do. do. southeast 216 23 miles 0.9 do. do. 1945 217 21 southeast 1946 214 21 217 弘 miles Bvell Hill Ed Davis 1.5 southeast 218 Mre, Nora Skaggs 1946 4 miles do. --southeast 219 3를 miles Ed Whitfill J. F. Davis 1946. 219 21 __ southeast 220 1944 210 21 1 3∮ miles do. do. southeast 221 Mrs. Ola Mills 1946 병 miles south 2.22 6 miles D. H. Davis J. F. Davis 20-0.5 1938 255 southwest 9

	WATER	LEVEL	; ,		
Well	Below	Date of	Method	Use	Remarks
	land	measurement	of	of	
	surface		lift	water	
I.	(ft.)		Þ/	<u>c</u> /	
204	<u>d</u> /110		T,E,	P	Reported yield 70 gallons a
005	3.00		15	3.7	minute.
205	106.6	Sept. 5, 1946	None	IJ	Casing 158 feet of 14-inch, with 80 feet perforated. Drilled for
					public supply; shot and aband-
					oned. "Red beds" at 200 feet.
206	136.9	July 8, 1946	T,G	Irr	Reported drawdown of 39 feet.
	,,,,,		- 7 0		Pumping on estimated 550 gallons
207			Flows		Dammed for use as a minute.
					swimming pool. Reported yield
					6 gallons a minute from many
208	132.3	Sept. 5, 1945	T,G,	Irr	Reported drawdown 27 feet seeps.
000	7/330		120		pumping 200 gallons a minute.
209	<u>d</u> /110		None	N	Drilled for irrigation test hole. "Red beds" at 226 feet.
210	108.5	Sept. 5, 1946	None	N	Reported yield 250 Hole filled.
L+0	1 200.	100p 0 + 9 + 19 + 10	140116	±V.	to 300 gallons a minute, con-
			1		sidered insufficient for irrig-
			-		ation. "Red beds" at 180 feet.
211	d/91		None	N	Test hole. Reported yield 200
					gallons a minute, considered
					insufficient for irrigation.
212	85•5	Aug. 27, 1946	None	N	leasured "Red bods" at 200 feet.
					yield 99 gallons a minute in
					March, 1946, considered insuffi-
213	<u>a</u> / 95	***	None	N	cient for irrigation. Reported yield 400 gallons a
L-)	<u> </u>		2,0110	1,	minute, considered insufficient
214	90.6	Sept. 6, 1946	None	N	Reported yield for irrigation.
				-	200 gallons a minute, consider-
					ed insufficient for irrigation.
215	91.6	do.	C -	N	Drilled for "Red beds" at 210 feet
				1	irrigation well. Estimated yield
216	96.9	July 8, 1946	T,G,	Irr	200 gallons a minute. "Red beds" Well shot and im- at 200 feet.
(_10	99.7	Scpt.6, 1946	120		proved some. Pump set at 130
)))•!	0 op 0 0 2 1 0	120		feet. Measured drawdown 55 feet
					when pumping 450 gallons a min-
					ute. "Red beds" at 217 feet.
217	107.3	Sept. 6, 1946	None	N	Drilled for irrigation well.
					Pump not yet set. "Red beds" at
218			None	N	Drilled for irriga- 214 feet,
219	d/105	 	None	N	tion when visited. Pump not yet sct. "Red beds"
L17	1 200		Kone	11/1	at 219 feet.
220	110.1	Sept. 6, 1946	T,G,	Irr	Pump set at 150 feet. Reported
		1 202 0, 20, 10	93		yield 803 gallons a minute.
221			None	N	Drilled for irrigation when
PROBE STREET ABOUT					visited.
223	84.7	Sopt.11, 1945	None	N	Drilled 20-inch hole to 200 feet,
	1		:	ł	9-inch to 255 feet. Formerly
	T qquusiya		ı		used by Highway Department. Re-
		1	ŧ	1	ported yield 150 gallons a min-
				l .	ute. "Red beds" at 200 feet.

Records of wells and springs in Briscoe County--Continued Height of Distance Well Driller Owner Date (Depth; Diam-, measuring from com- | of eter ' point Silverton ple- |well of above (ft.) ground ted well (in.)(ft.) a/ 223 6분 miles D. H. Davis J. F. Davis 1938 200 20 southwest 224 6분 miles W. A. Stephens do. 1945 214 21 --south 225 7 miles do. do. 1944 202 15 ī south 226 8 miles Jim Whiteley 1946 169 do. 21 Ī southwest 227 $8\frac{1}{6}$ miles W. W. Douglass do. 1946 219 16 1,2 southwest 228 91 miles A. L. Davenport 1946 200 do. 21 --south 229 Frederick Montague Phillips 1942 8200 13-3/ đo. Petrcleum Co. Est. 230 8- miles Jack Montague 166 21 0 southeast 231 65 miles Mrs. Nettie McGavock J. F. Davis 1943 i 219 20 0 south 4 miles 232 Jack E. Skaggs 1945 210 21 Ī Francis southeast 233 場 miles do. Ed Davis 1946 210 21 $\overline{1}$ southeast 234 5 miles Joe Mercer J. F. Davis 1945: 210 21 2 southeast 235 do. do. Ed Davis 1946 · **21**0 21 I 236 J. W. Monroe J. F. Davis 1946 200 5층 miles 9 --southeast 237 1946 i 500 do. do. do. 21 2 238 6 miles do. do. 1945 278 9 southeast 239 1945 : 226 do. do. do. 9

	VATER	LEVEL	T		
Well	Below	Date of	Method	Use !	Remarks
	land	measurement	of	of	
	surface		lift	water	
	(ft.)		<u>b</u> /		
223	<u>d</u> /80		None	N	Reported yield 150 gallons a
	1			1	minute, considered insufficient
				•	for irrigation. "Red beds" at
224			None	N	Drill- 200 feet. Hole filled.
			<u> </u>		ed for irrigation.
225	77.2	Aug. 29, 1946	None	N	Casing: 190 feet of 15-inch,
					100 feet perforated. Measured
				1	drawdown 115.4 feet on August
	!				15, 1946, after pumping 166
					gallons a minute for 6 hours.
226	71.2	Aug. 28, 1946	T	Irr	Pump set at 150 feet. Estimated
	1				yield 400 gallons a minute, con-
					sidered insufficient for irri-
227	78.8	June 26, 1946	T,G	Irr	Casing: 140 feet of gation
	78.2	July 18, 1946			16-inch. Pump set at 160 feet.
	78.8	Aug. 28, 1946	•		Measured drawdown 70 feet on
					August 16, 1946, after pumping
1					400 gallons a minute for 12 hours.
228			None	N	Drilled for irrigation well;
					abandoned and filled. "Red beds
229		and and			Oil test. See at 145 feet.
					partial log.
230	112	Aug. 29, 1946	None	N	Insufficient water for irri-
					gation.
231	80.9	Sept. 6, 1946	None	N	Insufficient water for irri-
		* * * * * * * * * * * * * * * * * * *	1		gation. "Red beds" at 180 feet.
232	111.9	July 8, 1946	T, G,	Irr	Measured drawdown 20 feet,
	115.2	Sept. 5, 1946	1140		after pumping 850 gallons a min-
233	110.7	Sept.11, 1946	None	N	Drill- ute for several hours.
	 		-	<u> </u>	ed for irrigation. Pump not yet
234	101.7	May 14, 1946	T,G	Irr	Pump set at 150 feet. set.
	103.1	July 8, 1946	140		Measured drawdown 21 feet on
	106.2	Sept. 5, 1946			May 14. 1946, after pumping
075	700 7	a- + = 30)/		37	1,000 gallons a minute for sev-
235	102.3	Sept. 5, 1946	None	N	Drilled for irri- eral hours.
276			+ 17	7,7	gation. Pump not yet set.
236			None	N	Test hole. Reported yield 300
	1				gallons a minute, considered
					insufficient for irrigation.
277	97.4	Sept. 5, 1946	M	N	"Red beds" at 200 feet. Hole
237	71•4	20h r. 2. 1240	None	TX	Reported yield 300 filled,
				1	gallons a minute, considered
238		; 	None	N	insufficient for irrigation.
ں رے			Mone	1N	Test \"Red beds" at 200 feet,
	1				hole, Reported yield 300 gal-
	,			1	lons a minute, considered in-
	į			1	sufficient for irrigation. "Red
270			77	NT NT	beds" at 218 feet. Hole filled,
239	·		None	N	Test hole. Reported yield 300
	Į			,	gallons a minute, considered
	ļ			i	insufficient for irrigation. "Red
					beds" at 226 feet. Hole filled,

	Record	ds of wells and spri	lngs in Briscoe Cou	ınty	Continu	.ed	
							Height of
Well	Distance	Owner	Driller	Date	Depth	Diam-	measuring
	from		1	com-		eter	point
i	Silverton		, 1	ple-	well	of	above
	-		1 1	ted	(ft.)	well	ground
1	,		Transparent Control of	1	(200)	(in.)	(ft.) a/
-110		<u> </u>			ļ		(100,73)
240	8 miles	J. M. Lemons	J. F. Davis		Spring		
	southeast				1		
241	do.	do.			Spring		ļ
ļ			Pro-				
}				1			
242	9 miles	Fred Lemons			Spring		
ł	southeast			1			
243	9층 miles	do.			Spring		
-	southeast						
244	10 miles	T. D. Wallace			140	8	0.5
	southeast						
245	10 miles	Mrs. Elmina Davis			250	냳	
	southeast					'≿,	
246	ll miles	T. D. Wallace			Spring		
240	southeast	1. D. WELLEGO			01)1 1118		
<u> </u>	Southeast						
ŀ							
							
247	$11\frac{1}{2}$ miles	do.	***		Spring		
ĺ	southeast						
248	$10\frac{1}{5}$ miles				Spring		
-	southeast						
i							
1							
1							
249	7분 miles	Mrs. W. A. London		1920	180	6	
-	southeast						
250	9 miles	Clete Miller	J. F. Davis	1925	209	뱻	
	southeast			-/-/	,	اخ	
251	16 miles	City of Quitague	Edwards	1929	100	14	1.5
-)	southeast	010, 01 0,0200	22 (4 (2) 2 (2) 2	+/-/		- '	-•)
,	SOUTHERS						
				į			
<u> </u>				•			
252	do.	do.	do.	1929	100	14	
252	αυ•	1			TOO .	⊥++ '	
		<u> </u>		;			}

a/ Measuring point was usually top of casing, top of pipe clamp, or top of pump base or foundation.

b/. Method of lift: T, turbine; C, cylinder; E, electric; G, gasoline, natural sas, butane or oil engine; W, windmill; Number indicates horsepower,

	WATER	LEVEL		:	- ·
Well	Below	Date of	Method	,	Remarks
į	land	measurement	of	of	
ì	surface	i L	lift	water	
Í	(ft.)		<u>d</u>		
			_	_	
240			Flows	S	Estimated yield 10 gallons a
[minute from many secps. Spring
1					no. 1 in Water-Supply Paper
241			Flows	S	Yield measured 4 mile 889F.
	,				down stream 20 gallons a min-
					ute; source, many seeps. Spring
-					nc. 2 in Water-Supply Paper 889F.
2112			Flows	S	Reported yield 10 gallons a
<u>_</u>			TTOWS	ນ	minute from many seeps.
243			Flows	S	Do.
240			FIOWS	٥	DO.
5/1/1	122,4	Dec. 1, 1946	C,W	D,S	14 miles west of canyon of
۲. ۳۳	124.3	Sept 17, 1946	C, W	בי לת	Linquist Falls Creek.
245		Sept 11, 1940		D,S	Linguise Salis Greek.
240	<u>d</u> /200		C.W	ם, ט	
246			Flows	S	In canyon of Linquist Falls
					Creek. Estimated yield 3 gal-
					lons a minute in 1938 from
		***			several sceps. Spring no. 4 in
					Water-Supply Paper 889 F.
247			Flows	S	In bottom of canyon at Linquist
C. 7 1			11000	υ	Falls Creck. Measured yield 83
			1 1		
248					gallons a minute in 1938.
240	••••		Flows	S	In canyon of Linquist Falls
					Crock. Estimated yield 10 gal-
			1		lons a minute in 1938, from
					many scops and joints. Spring
					no. 3 in Water-Supply Paper 889F.
249	d/140		C.W	D,S	About 25 miles west of cap rock.
250	<u>d/194</u>		C, ₩	D,S	Casing: 209 foot of 45-inch.
					About 200 yards west of draw
251	51		T.E.	P	Casing: 100 near cap rock.
-	_		15		feet of 14-inch, well gravel-
					walled. Pump set at 90 feet.
]		Reported drawdown 20 feet, when
		E			pumping 200 gallons a minute.
252	d/ 50		T,E,	P	Do.
— J 		•	15	_	
	•		ب ر <u> -</u>		•

c/ Irr, irrigation; P, public supply; D, domestic; S, stock; N, not used.
d/ Water level reported by driller or owner.

Clay and gravel		Thickness (feet)	Depth (feet)		kness 'eet)	Depth (feet)
Silverton. Sand and clay 70 70 70 Cypsum 4 74 74 Water sand 75 1 Miles clay and gravel 6 80 Cypsum 56 136 Cypsum and clay 120 256 Sand and red beds 50 306 Cypsum and clay 88 394 Hard gypsum 81 496 Cypsum 10 940 Salt and gypsum 62 1056 TOTAL DEPTH 4010. Well 21, partial log	Well 15,	partial log	ſ	Well 133		
Clay and gravel	-	$14\frac{1}{2}$ miles north	of '		t of	
Clay and gravel	Sand and clay	70	70	Caliche and rock		85
Gypsum 56 136 Red beds 22 25 Gypsum and clay 120 256 256 256 256 256 256 256 256 256 256 256 256 256 256 256 256 256 257 256 256 256 256 256 257 256 256 257 256 256 257 256 256 257	Gypsum		74	Water sand	75	160
Cypsum and clay 120 256 Sand and red beds 50 306 Gypsum and clay 88 394 Hard gypsum 21 415 Gypsum 81 496 Red rock and gypsum 374 870 Salt and gypsum 42 930 Gypsum 10 940 Salt and gypsum 54 994 Gypsum 62 1056 TOTAL DEPTH 4010 TOTAL DEPTH 4010 TOTAL DEPTH 4010 Total below the shele 35 135 135 Yellow mud 15 150 Gravel 35 135 Yellow mud 15 150 Sand and gravel 15 Sand and gravel 16 Sand and gravel 16 Sand and gravel 17 Flow rooms 105 406 Sand and gravel 16 Sand and gravel 17 Flow rooms 18 Flow rooms 19 Flow rooms 19 Flow rooms 19 Flow rooms 19 Flow rooms 105 406 F	Clay and gravel	6	80	White clay and caliche		178
Sand and red beds 50 306			4	Red beds	22	200
Gypsum and clay	Gypsum and clay	120	•			
Hard gypsum	Sand and red beds	50	306			
Supsum St 496 100 10	Gypsum and clay	88	394			
Supsum St 496 100 10	Hard gypsum	21	415	Ed Vaughn, 92 miles southwes	st of S	ilver-
Salt and gypsum	Gypsum	81	496	ton.	,	
Salt	Red rock and gyps	um 374	870	Caliche and rock	85	85
Caliche, clay, and rock Caliche, sand and gravel 14 25			888	Water sand	65	150
Caliche, clay, and rock Caliche, sand and gravel 14 25	Salt and gypsum	42	930	Caliche and clay	48	190
Salt and gypsum			940		14	212
Mater sand Mat			1 1			
Value Valu				Well 147		
Well 21, partial log			Î.			
Well 21, partial log	2 - 2112 2 2 2 2 1		1	J. W. Read. 11 miles southwe	est of	
Well 21, partial log J. C. Anderson, 12 miles northwest of Silverton. Caliche, clay, and rock 70 Red mud 50 50 Red sand 50 100 Gravel 35 135 Yellow mud 15 150 Blue shale 50 200 Lime shells and shale 35 235 Water sand 15 250 Red shale 40 290 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 10 300 Yellow clay 64 Water sand 23 1 17 Blue shale 8 413 Red water sand 23 1 Water sand 105 405 Caliche, sand and some rock 55 2 Silverton. Scilverton. Scilverton. 17 Red shale 40 290 200 Red shale 10					,00	
Caliche, clay, and rock 70 Water sand 25 Red clay 8 Water sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 43 Mater sand 45 Mater sand 45 Mater sand 45 Mater sand 45 Mater sand 45 Mater sand 45 Mater sand 45 Mater sand 40	Well 21.	partial log		1		
J. C. Anderson, 12 miles northwest of Silverton.		1,111		Caliche, clay, and rock	70	70
Red mud 50 50 50 Caliche, sand and some rock 55 20 Red sand 50 100 Sand and gravel 15 20 Gravel 35 135 Well 162 15 20 Blue shale 50 200 Dr. Conrad Frey, 13 miles southwest of Silverton. Silverton. Soil 4 Red shale 40 290 Soil 4 4 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Sand 5 465 Gray sandy shale 38 1 Red bed 5 465 Gray sandy shale 38 1 Red rock 295 775 White water sand 11 1	J. C. Anderson, 1	2 miles northwe	stof			95
Red mud 50 50 Galiche, sand and some rock 55 2 Red sand 50 100 Sand and gravel 15 2 Gravel 35 135 Yellow mud 15 150 Well 162 Blue shale 50 200 Dr. Conrad Frey, 13 miles southwest of Silverton. Water sand 15 250 Soil 4 Blue shale 40 290 Soil 4 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Sand 5 465 Gray sandy shale 38 1 Red bed 5 465 Gray sandy shale 38 1 Red rock 295 775 White water sand 11 1				1	1	103
Red mud 50 50 Caliche, sand and some rock 55 2 Red sand 50 100 Sand and gravel 15 2 Gravel 35 135 15 150 50 200 250 Dr. Conrad Frey, 13 miles southwest of Silverton. Red shale 40 290 Soil 4 Red shale 10 300 Yellow clay 64 Red shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1			į	,	- 1	145
Red sand 50 100 Sand and gravel 15 2 Gravel 35 135 135 135 135 135 14 15 150	Red mud	50	50	1		200
Gravel 35 135 Yellow mud 15 150 Blue shale 50 200 Lime shells and shale 35 235 Dr. Conrad Frey, 13 miles southwest of Silverton. Red shale 40 290 Soil 4 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1			100		1	215
Yellow mud 15 150 Well 162 Blue shale 50 200 Dr. Conrad Frey, 13 miles southwest of Silverton. Lime shells and shale 35 235 Dr. Conrad Frey, 13 miles southwest of Silverton. Red shale 40 290 Soil 4 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1			1	Sala Sala Sala Sala Sala Sala Sala Sala		
Blue shale 50 200 Dr. Conrad Frey, 13 miles southwest of 15 miles miles southwest of 15 miles mi						
Lime shells and shale 35 235 Dr. Conrad Frey, 13 miles southwest of Silverton. Red shale 40 290 Soil 4 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1				1		
Water sand 15 250 Silverton. Red shale 40 290 Soil 4 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1				Dr. Conrad Frey, 13 miles so	uthwes	t of
Red shale 40 290 Soil 4 Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1				Silverton.		
Blue shale 10 300 Yellow clay 64 Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1	Red shale			Soil	4	4
Water sand 105 405 Caliche 17 Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1				1	64	68
Blue shale 8 413 Red water sand 23 1 Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1				•	17	85
Sand 47 460 Red shale 4 1 Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1		1		1	23	105
Red bed 5 465 Gray sandy shale 38 1 Sand 15 480 Hard sand (cap rock) 4 1 Red rock 295 775 White water sand 11 1			1	Red shale	4	112
Sand 15 480 Hard sand (cap rock) 4 Red rock 295 775 White water sand 11 1	Red bed		1	Gray sandy shale	38	150
Red rock 295 775 White water sand 11 1	Sand			Hard sand (cap rock)	4 /	154
		i i		=	11	165
onark 15 / 790 Sandy Share 0 1	Chalk	15	790	Sandy shale	6	171
		4		†	9	180
				, -	15	195
			i		3	198
		3				200
		1	,		18	218
				1	1	219
		•	1			

	ckness (feet)	Depth (feet)		Thickness (feet)	Depth (feet)			
Well 165			Well 17	72				
W. H. Steel, $9\frac{1}{2}$ miles southwill Silverton.	west of	-	E. Dickerson, $ll^{\frac{1}{2}}$ miles Silverton.	southwest o	\mathbf{f}			
Top soil Shale and clay Rock	5 49 4		Surface Caliche Sand shale	5 9 36	5 14 50			
Shale Sand Rock	6 46 4	110	Rock Shale-rock Rock	6 10 3	56 66 69			
Sand and boulders Clay and shale Sand and gravel Red beds	28 68 44 2	142 210 254	Red clay Water sand Sandy shale Water sand	29 12 38 12	98 110 148 160			
Well 168			Shale River gravel	22 18	18 3			
Dr. Charles E. Wallace, 10 m southwest of Silverton.	niles		Well 173					
Surface Cla y-caliche Broken rock Water sand Shale-white rock Water sand Shale and sand Broken sand Shale	3 25 32 5 23 59 21 26 6	168	Brown clay Shalerock Honey-combed sand and clay streaks Hard sand and clay	3 77 10	3 80 90 135 190 242			
Well 170			Well 174	4				
A. L. Moyer, $11\frac{1}{2}$ miles south Silverton.	nvæst og	r I	J. V. Nelson, lla miles Silverton.	southwest o	of			
Surface Clay and caliche Broken rock and shale Shale Water sand Rock Shale Water sand Broken sand and shale White rock Water send with hard streaks	3 22 45 23 17 4 19 18 12 53	3 25 70 93 110 114 118 137 155 167 220	White sand Water sand Caliche rock Water sand White sand	d sand 50 6 20 22 8 24 30 25 20 28	50 56 76 98 106 130 160 185 205 233			

41	ickness (feet)	Depth (feet)		Thickness (feet)	Dépth (feet)
Well 229, partie	1 log		Well 229, partis	1 logcon	tinued
rederick Montague Estate outh of Silverton.	, 9½ mil	e s			
furface sand and caliche Caliche and sandy lime Red angular quartz sand	30 50 15	30 80 95	Gray shale Sand and gravel with stringers of gray	10	230
andy lime	45	140	shale	30	260
shale with thin stringers			Gray shale	10	270
of sand and pebbles and and gravel with	40	180	Sand and gravel Red beds and sand	40 24 5	310 555 8200
Sand and gravel with stringers of gray shale	40	220	Red beds and sand TOTAL DEPTH	245	

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

11111	million. Well numbers correspond to numbers in table of well records.														
_		Depth	Date	1	Total		Magne-		Bicar-	1	Chlo-	•	Fluor-	Total	
Well	Owne r	of	of		dissolved	cium		Potassium	bonate	fate	ride	trate	ide	hardness	
		well	collection	on	solids	(Ca)	(Mg)	(Na+ K)	(HCO ₃)	(so_{L})	(C1)	(NO3)	(F)	as CaCO	3
		(ft.)				<u> </u>		(calc.)	l		i			(calc.	
1	W. C, Hulsey		,							,					
	Estate	Spring	Sept. 9,	1940	ó 351	40	26	43	270	55	15	0.0	_	207	
10	D. Morris and														
	V. L. Matney	260	do.		317	45	24	19	221	34	26	0.2	_	211	
11	Dick Todd	120	Scpt. 4,	1940	5 388	49	30	20	241	34	36	6.6		246	
12	D. Horris and														
	V. L. Matney	170+	do∙		333	49	20	28	255	22	23	0.2	****	204	
14	do.	170	Sept. 9,	1946	ó 309	49	20	18	229	12	31	0.2		204	
16	V. J. Heim	146	Sept. 4,	1946	5 322	37	26	23	244	27	14	0.2	-	200	
17	May	126+	Sept. 9,	1946	6 356	38	34	23	256	36	27	0.2	_	235	
19	Frank Cobb	111	Scpt.10,	1946	5 38 3	40	39	28	270	35	44	1.2		260	
22	S. M. Rogers	70	Sept. 4,	1946	6 419	31	36	56	267	52	22	0.2		226	Ž.
23	Wright B. May	110	Sept.10,	1946	6 368	36	30	39	238	59	28	0.2	_	214	ŀ
24	C. M. Flowers	Spring	do.		420	28	<i>L</i> ₄O	49	249	60	28	0.2	_	234	
28	G. B. Mayfield	216	Sept.11,	1948	5 333	23	35	47	273	23	13	0.2	-	173	
33	C. M. Flowers	250	Sept.10,			34	32	145	350	171	48	0.0		216	
36	Roy McMurtrie	137	Sept.16,			61	42	30	391	28	22	11		324	
46	M. J. O'Neal	140	do.		341	38	26	19	215	20	30	4.3		202	
52	Guy McWilliams	210	Sept.17,	1946		43	27	21	247	20	28	1.8	_	213	
147	J. W. Reid	215	hug. 30,			36	44	15	261	22	15	0.0	_	271	
175	Grady Wimberly	210	hug. 28,	1946	5 387	31	39	36	273	42	20	0.0		238	
*202	City of Silverte	on –	nug. 27,			40	34	41	288	40	24	2.5	3.6	240	
245	Mrs. Elmina Davi	is259	Aug. 25,			34	43	9.2	300	17	13	0.2	- ,	263	
249	Mrs. V. A. Londo		Sept. 5,			36	40	46	304	106	25	0.2	-	292	
250	Clote Miller	209	Scpt.17,			51.	41	25	304	50	35	0.2	_	296	
251	City of Quitaque		Sept. 2,			65	54	211	428	243	146	9.2	4.3	334	
					•	-			•		•	•	•	- ,	

^{*}Composite sample from three wells, Nos. 202, 203, and 204, City of Silverton.

