

1R - 247

Well Logs
REPORTS

DATE:

1980

SOUTHWESTERN PUBLIC SERVICE

WATER WELL DATA

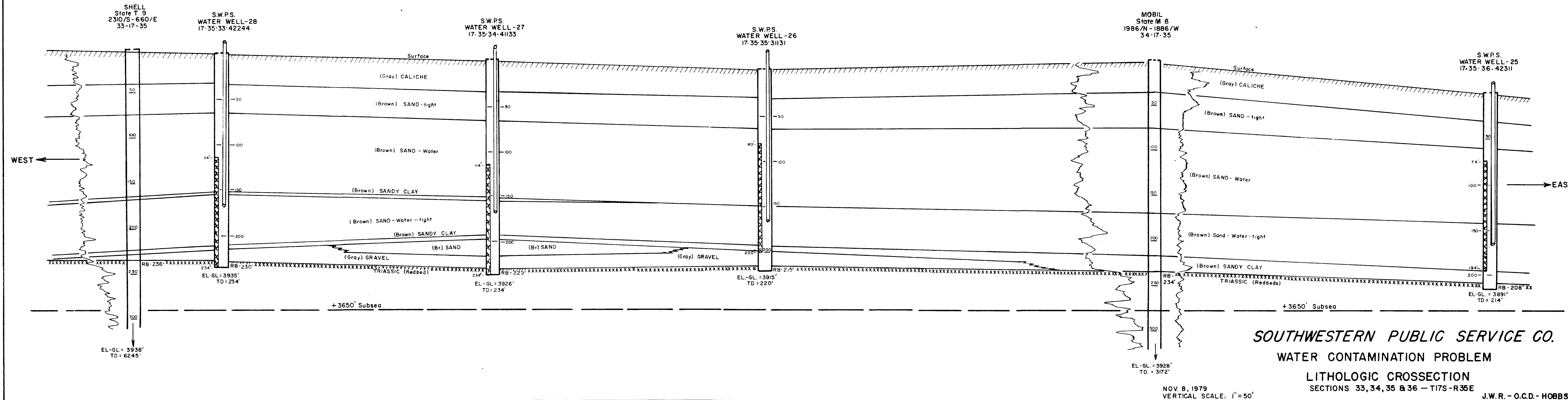
Well # 25; — 12 $\frac{3}{4}$ " casing set at 214' (TD),
17.35.36.42311 perforated from 74' to 194', 6" suction
pipe set at 169'. Turbine motor. 72 hour
test - drawdown from 51' (water level) to
90'. Average 19 gal/min/foot. Average
discharge 750 gal/min. Elev. 3891' GL
Triassic "Redbed" at 208' per foot.

Well # 26: — 12 $\frac{3}{4}$ " casing set at 220' (TD), perforated
17.35.35.31131 from 80' to 200', 6" suction pipe set at 169'.
Turbine motor. 48 hour test - drawdown
from 48' (water level) to 88', average 19
gal/min per foot. - average discharge 750 G.P.M.
Elev. 3915' GL, Triassic "Redbed" at 215'

Well # 27: — 12 $\frac{3}{4}$ " casing set at 234' (TD) perforated
17.35.34.41131 from 114' to 234', 6" suction pipe set at 169'.
Turbine motor. 48 hour test - drawdown from
51' (water level) to 80', Average 26 gal/min
Per foot. average discharge 750 G.P.M.
Elev. 3926' GL. Triassic "Redbed" 2291

Well # 28: — 12 $\frac{3}{4}$ " casing set at 234' (TD) perforated from
17.35.33.42244 114' to 234', 6" suction pipe set at 169'.
Turbine motor. 48 hour test - drawdown
from 60' (water level) to 103', Average 18 gal/min/ft.
Average discharge 750 gal/min. Elev. 3935' GL
Triassic "Redbed" 230'

Refer to cross section for well completions in relation to
water & aquifer and lithology of aquifers.



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Remarks

Hole No SW-1
page 1 of 2

0

Depth	Log	Description
		Sand - dark brown, vf. to f. qtz. grains; ang. to subrd, mod. clay matrix.
		Gravel - Red, white, black, ^{1/4 to 1/2 in.} sub ang. to rd, tr. of clay matrix 225 to 229 ft.
		Clay - brick red, tr. of vf. qtz. grains, a few grains of mica
		T.D. - 240 ft.

Hole No SW-1
 page 2 of 2

Hole No SW-1
page 2 of 2

SAMPLE LOG

0

Hole SW-2 Logged by Thomas A. Parkhi Date Aug. 24, 1980 page 1 of 2
 Driller John Scarborough TD 240 ft Date 8-25-80
 Probe None TD _____ Date _____
 Est Mud Wt. Water Hole Size 4 3/4 in Log Types _____ Collar Elev. 3930.4 ft
 Location _____ 370 FNL 1800 FWL Sec. 34 T 17S R 35E
 Area Buckeye County Lea State N. Mex Collar Coord. N _____ E _____
 Remarks _____

Depth	Log	Description
		Caliche - light pink, tr of vf. qtz. grains, a few veinlets of hydro qtz hard
		Sand - light orange, vf to f. qtz grains, ang to subrd, tr. of clay matrix
50		
		Caliche - white, abt. vf. qtz. grains, soft
		Sand - light orange, vf. to f. qtz. grains, ang. to subrd, mod. clay matrix
100		
		Sand - light brown, vf. to f. qtz grains, ang to subrd, tr. of clay matrix, a few stringers of light brown clay
150		
200		

O

Remarks

250

Hole No SW-2
page 2 of 2

O

Depth	Log	Description
		Caliche - light pink, mod. v.f. qtz grains, a few veinlets of hydroqtz., hard.
		Sand - light orange, v.f. to f. qtz grains, ang. to subrd, mod clay matrix
50		
		Caliche - white, abt. v.f. qtz grains, soft
00		Sand - light orange, v.f. to f. qtz grains, ang to subrd, mod. clay matrix
50		
		Sand - light brown, v.f. to f. qtz grains, ang. to subrd, mod. clay matrix
200		Gravel - white, red, black, $\frac{1}{4}$ to $\frac{3}{4}$ in, subang to subrd., tr. of clay matrix 195 to 206

Hole No SW-3
page 1 of 2

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Remarks _____

Hole No SW-3
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O

[illegible]

Hole No SW-4
page 1 of 2

O

[illegible]

Hole No SW-4
page 2 of 2

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[illegible]

Hole No SW-5
page 2 of 2

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

SW 2

WELL LOG

From	To	FORMATION
0	1	top soil
1	15	caliche
15	22	Rock
22	55	clay w/ Rock ledges
55	217	Sand w/ clay ledges
217	219	Gravel
219	225	Brown clay
225	244	Red Bed
Run 3" PVC Pipe Set 2" Jet Pipe Jettied Well + Pull 2" Jet Pipe \$976.00		
8-25-80 Driller Scarborough		

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

SW 1

WELL LOG

From	To	FORMATION
0	2	top soil
2	40	caliche
40	46	Rock
46	55	clay w/ Rock ledges
55	224	Sand w/ clay ledges
224	229	Gravel
229	244	Red Bed
Run 3" PVC Pipe Set 2" Jetting Pipe Jettied Well + Pull 2" Jetting Pipe \$976.00		
8-24-80 Driller Scarborough		

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

SW 3 WELL LOG

From	To	FORMATION
0	2	top soil
2	40	caliche
40	55	clay + Rock ledges
55	191	Sand w/ clay ledges
191	226	Gravel
226	230	Red + Brown clay
230	244	Red Bed
Run 3" PVC Pipe Set 2" Jet Pipe Jettied Well + Pull 2" Jet Pipe \$976.00		
8-25-80 Driller Scarborough		

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

SW #5 WELL LOG

From	To	FORMATION
0	1	top soil
1	20	caliche
20	40	clay w/ Rock
		ledges
40	44	Rock
44	220	Sand
220	230	Gravel
230	244	Red Bed

Drilled 5" well
 Run 3" PVC Pipe, Set
 2" Jet Pipe, fitted
 well Pull Jet
 Pipe
 @ 400 \$ 976.00

Date 10-8-80 Driller Scarborough

SCARBOROUGH DRILLING

TEST HOLES — WATER WELLS

122 N. 24th St. - Ph. 806-872-3285 or 3125

LAMESA, TEXAS 79331

SW #4 WELL LOG

From	To	FORMATION
0	2	top soil
2	20	caliche
20	24	Rock
24	80	clay & sand w/ Rock
		ledges
80	192	Sand
192	198	Gravel
198	207	Clay
207	220	Red Bed

Drilled 5" well
 Set 3" PVC Pipe
 Set 2" Jet Pipe fitted
 well Pull 2" Jet
 Pipe
 @ 400 \$ 880.00

Date 10-8-80 Driller Scarborough

LOCATION	DATE COLLECTED	CHLORIDE FPM	CONDUCTANCE M-PCS	TEMP DEG	WBF	BASIN FILE	REFERENCE FILE	USE	PT CLTN	SEC CLTR	AED CATA	CARD STU
17S 34E 26 31231	11/17/77	34	455		TOG	L		OWD	TS156	SEC	ABDN	
AVERAGES BY WELL LOCATION												
17S 34E 36 21324	1/27/66	28	345		TOG	L05851		EXP	JETTED	SEC	*	
AVERAGES BY WELL LOCATION												
17S 34E 26 33323	5/15/65	40	455	68F	TOG	L02725		MOD	UP	SFC		
17S 34E 36 33323	5/19/77	32	498		TOG	L02725		MOD	TS160	SEC	ABDN	
17S 34E 36 33323	11/17/77	43	440		TOG	L02725		MOD	TS182	SEC	ABDN	
AVERAGES BY WELL LOCATION												
17S 34E 36 443134	5/15/65	30	510		TOG	L05288		SRO	DP	SEC		
17S 34E 36 443134	11/17/77	99	649	65F	TOG	L05288		SRO	DP	SEC		
AVERAGES BY WELL LOCATION												
17S 35E C4 140CC	7/00/52	47			TOG	L		EXP		CNR	X	P
AVERAGES BY WELL LOCATION												
17S 35E 15 122222	2/09/66	43	420		TOG	L05850		EXP	JETTED	SEC		
AVERAGES BY WELL LOCATION												
17S 35E 15 142313	11/10/77	11	182		TOG	L		OWD	TS144	SEC	ABDN	
AVERAGES BY WELL LOCATION												
17S 35E 15 22222	2/10/66	95	770		TOG	L05850		EXP	JETTED	SEC		
AVERAGES BY WELL LOCATION												
17S 35E 15 33331	11/10/77	4604	12198		TOG	L04829A		CUM	DP	SEC		
17S 35E 15 33331	11/21/77	2248			TOG	L 4829A	L 4829	PPP		CNR	0479	P
17S 35E 15 33331	11/30/77	3788			TOG	L 4829A	L 4829	PPP		CNR	0479	F
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	10/20/77	3120			TOG	L 4829A	L 4829	PPP		CNR	X	0479
17S 35E 15 333312	11/01/77	2010			TOG	L 4829A	L 4829	PPP		CNR	X	0479
17S 35E 15 333312	11/17/77	831			TOG	L 4829A	L 4829	PPP		CNR		0479
17S 35E 15 333312	11/22/77	2798			TOG	L 4829A	L 4829	PPP		CNR		0479
17S 35E 15 333312	11/28/77	3910			TOG	L 4829A	L 4829	PPP		CNR		0479
17S 35E 15 333312	12/02/77	4936			TOG	L 4829A	L 4829	PPP		CNR		0479
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479
AVERAGES BY WELL LOCATION												
17S 35E 15 333312	12/06/77	4251			TOG	L 4289A	L 4289	PPP		CNR		0479

LOCATION	DATE COLLECTED	CHLORIDE FPM	CONDUCTANCE M-MHDS	TEMP DEG	WBF	BASIN FILE	REFERENCE FILE	USE	PT CLTN	ACD CLTP DATA	CARD SCU DATE RCE
17S 35E 2C 41322	11/10/77	30	381		TCG	LC4829		SRD	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 35E 25 42342	11/03/77	136			L			STK		CNR	X
AVERAGES BY WELL LOCATION											
17S 35E 29 22222	7/00/52	56			TCG	L		EXP		CNR	X
AVERAGES BY WELL LOCATION											
17S 35E 3C 113CC	10/31/77	400			TCG	063575		CUM	DP	CNR	X
17S 35E 3C 113CO	11/00/77	300			TCG	L063575		CUM	DP	CNR	X
17S 35E 3C 113CO	11/18/77	320	1346	71F	TCG	L063575	L06357	CUM	DP	CNR	X
AVERAGES BY WELL LOCATION											
17S 35E 3C 43333	11/16/77	28	461	67F	TCG	L03876		PPP	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 35E 3C 434331	11/16/77	55	677	64F	TCG	L03875		PPP	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 35E 31 11444	11/16/77	214	1027	65F	TCG	L03873		PPP	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 35E 31 213231	11/16/77	129	767	66F	TCG	L03874		PPP	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 35E 31 31334	11/16/77	246	1118	67F	TCG	L04247A	L04247	MUD	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 35E 31 43411	11/17/77	18	223		TCG	L		OWD	TS145	SEC	ABDN
AVERAGES BY WELL LOCATION											
17S 35E 32 11142	11/16/77	22	335	65F	TCG	L		DDM	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 35E 32 21124	11/16/77	32	278	63F	TCG	L05343		OWD	DP	SEC	
AVERAGES BY WELL LOCATION											
17S 36E 01 22222	5/25/65	21	561		TCG	L02508		PPP	DP	SEC	
AVERAGES BY WELL LOCATION											
		21.0	561.0	.00							

STATE ENGINEER CHEMICAL QUALITY OF WATER

LISTING BY WELL LOCATION

4/27/79

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LOCATION	DATE COLLECTED	CHLORIDE FPM	CONDUCTANCE M-MHOS	TEMP DEG	WRF	BASIN FILE	REFERENCE FILE	USE	PT CLTN	ACD CLTR DATA	CARD SCU DATE RCE
185 348 11 24431	4/01/70	23	460		T06	L01613S2	L01614	MOD	DP	SEC	
AVERAGES BY WELL LOCATION											
185 348 11 43212	4/01/70	23	459		T06	L01613		MOD	DP	SEC	
AVERAGES BY WELL LOCATION											
185 348 12 42333	9/15/65	25	435		T06	L01614		MOD	DP	SFC	
185 348 12 42333	4/01/70	29	459		T06	L01614		MOD	DP	SEC	
AVERAGES BY WELL LOCATION											
185 348 20 32233	12/01/65	35	430	68F	OAL			STK		SEC	*
AVERAGES BY WELL LOCATION											
185 348 27 33311	6/23/76	603	1220	65F	T06	L		STK	DP	CCC	C
185 348 27 33311	7/02/76	68C			T06	L		STK	DP	CAR	X
185 348 27 33311	7/12/76	529	720	65F	T06	L		STK	DP	CCC	C
185 348 27 33311	10/06/76	412			T06	L		STK	DP	CAR	C
185 348 27 33311	10/21/76	480	1899	65F	T06	L		STK	DP	SEC	C
185 348 27 33311	10/21/76	462	1020		T06	L		STK	DP	CCC	C
AVERAGES BY WELL LOCATION											
185 356 06 34432	11/17/77	112	705		T06	L04796		OWD	TS135	SEC	ABDN
AVERAGES BY WELL LOCATION											
185 356 07 42331	9/15/65	30	450	68F	T06	L02349		EXP	DP	SFC	
185 356 07 42331	4/01/70	198	1004		T06	L02349		MOD	DP	SEC	
AVERAGES BY WELL LOCATION											
185 356 08 31444	9/15/65	25	450	68F	T06	L02350		MOD	DP	SEC	
185 356 08 31444	4/07/70	28	526		T06	L02350		MOD	SBBLR	SEC	
AVERAGES BY WELL LOCATION											
185 356 11 34444	7/00/52	126	488.0	68.00	T06	L		EXP		CAR	X
AVERAGES BY WELL LOCATION											
185 356 16 11113	7/00/52	82			T06	L		EXP		CAR	X
AVERAGES BY WELL LOCATION											
185 356 21 444	7/00/52	85			T06	L		EXP		CAR	X

LISTING BY WELL LOCATION

DATE COLLECTED CHLORIDE FPM CONDUCTANCE M-MHDS TEMP DEG WBF BASIN FILE REFERENCE FILE USE PT CLTN CLTR DATA CARD STU DATE RCE

185 36E 14 12222 7/00/52 121 116 T0G L01540 EXP CTR X X P

AVERAGES BY WELL LOCATION 118.5 .00 .00

185 36E 17 22222 7/00/52 62 66 T0G L EXP CTR X X F

AVERAGES BY WELL LOCATION 64.0 .00 .00

185 36E 31 23333 7/00/52 47 64 T0G L01553 EXP CTR X X F

AVERAGES BY WELL LOCATION 55.5 .00 .00

185 36E 34 43333 7/00/52 73 73 T0G L01556 EXP CTR X X F

AVERAGES BY WELL LOCATION 73.0 .00 .00

185 36E 36 24234 8/31/65 20 505 68F T0G L0110852 L01383 PPP DP SEC

AVERAGES BY WELL LOCATION 55.0 733.5 67.00

185 37E 01 13243 7/17/42 37 548 T0G MUN USG X L

AVERAGES BY WELL LOCATION 37.0 548.0 .00

185 37E 01 13321 3/09/48 38 584 58F T0G L00115 MUN DP USG X L

AVERAGES BY WELL LOCATION 38.0 567.5 58.00

185 37E 01 14232 2/27/47 38 551 T0G DOM YT USG X U

AVERAGES BY WELL LOCATION 38.0 591.0 .00

185 37E 04 44433 7/19/42 49 698 T0G STK USG X U

AVERAGES BY WELL LOCATION 49.0 627

185 37E 12 11C 7/17/42 49 627 T0G USG X U

AVERAGES BY WELL LOCATION 49.0 627.0 .00

185 37E 13 32411 8/14/57 72 72 T0G L NOT BLR SEC

AVERAGES BY WELL LOCATION 72.0 .00 .00

185 37E 23 44121 8/14/57 80 80 T0G L NOT BLR SEC

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PROOF OF COMPLETION OF WELL

17-35-36-42311

L.S. E1 = 3891'

RB = 208

(25)

Permit No. 1-5021-Y-2

1. Name of Water Right Owner Southwestern Public Service Company
 Mailing address P. O. Box 1261
 City and State Amarillo, Texas 79105

2. Permit is for supplemental well from shallow ground water.
 (supplemental well, change location of well) (artesian or shallow)

3. Description of well: N. $\frac{1}{2}$ of S.E. $\frac{1}{4}$ (See Item 9 below for exact location)
 Located in the SE $\frac{1}{4}$ of Sec. 36 Twp. 17S Rge. 35E N.M.P.M., or Tract No. _____
 of Map No. _____ of the _____ District; total depth, 211 feet; is well cased yes;
 outside diameter of top casing (or hole, if uncased) 2-3/4 inches; if artesian, is well equipped with gate
 valve _____; date drilled Jan. 28 19 72; Name of driller Abbott Brothers.

4. Record of Pumping Test, if made (to be supplied by person or firm making test); Name and address of
 person making test, W-B-B Inc., Box 698, Lexington N.H. 02260;
 date of test Jan. 31 19 72; depth to water before test, 51 feet below land surface,
 (above, below)
 and pumping level during test, 90 feet; length of test, 72 hours; average discharge, 750 G.P.M.;
 specific capacity of well, 19 gals./min. per foot of drawdown.

5. Permanent Pump Equipment:

(a) Description of pump: Make Johnston; Type Turbine;
 size of discharge 6 inches; if turbine type, give size of column, 6 inches; diameter of
 bowls 10 inches; number of bowls 6; length of suction pipe 10 feet; total length of
 column, bowls and suction pipe 169 feet; if centrifugal type, give size of pump _____ inches;
 if other type, describe _____;
 rated capacity of pump (if known), 350 G.P.M., at 1800 rev. per min., from a depth of 254 feet.

(b) Description of power plant: Make U. S. Motor; Type Vertical Hollowshaft;
 rated horsepower (if available) 40; type of drive connection to pump direct.
 (direct, gearhead, or belt)

(c) Actual discharge of pump, 370 G.P.M., at 1800 rev. per min., from a depth of 55 feet;
 Date of test March 22 19 72.

6. If reservoir is used, give approximate size: length 275,000 gal. Steel Tank feet; width _____; depth _____.

7. If above well replaced an old well to be plugged or abandoned, fill out the following: the well abandoned
 is located in the _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ of Sec. _____, Twp. _____, Rge. _____.

Describe plugging method _____
 Name of plugging contractor _____

8. Well Record filed with State Engineer's Office Yes.
 (Yes or No)

9. N. $\frac{1}{2}$ of S.E. $\frac{1}{4}$ to be 1940 ft. North of the South boundary line and on a line
 between the N.W. $\frac{1}{4}$ of S.E. $\frac{1}{4}$ and the N.E. $\frac{1}{4}$ of S.E. $\frac{1}{4}$.

I, H. O. Hodson, affirm that the foregoing statements are true to the best of my knowledge
 and belief and that I am the Agent for owner and holder of said water right.
 (sole, partial, agent for, etc.,)

Southwestern Public Service Company, Permittee

X By: H. O. Hodson v.p.

STATEMENT OF STATE ENGINEER'S REPRESENTATIVE

I hereby certify that I have inspected the above well and find it constructed in accordance with the conditions
 of the permit. Note any exceptions _____

Well was producing _____ gpm against a _____ head of _____ feet at _____ gpm.
 (measured) (estimated)

Old well has been _____
 (plugged) (capped) (retained for other rights)

By: _____
 Title: _____

FIELD ENGR. LOG # 25

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Southwestern Public Service CompanyStreet and Number Box 1261City Amarillo, Texas State _____Well was drilled under Permit No. L-5834-X 3 and is located in the
SE 1/4 NW 1/4 SE 1/4 of Section 36 Twp 17 Rge. 35(B) Drilling Contractor ABBOTT BROS. License No. WD-46Street and Number Box 637City Hobbs, N.M. State _____Drilling was commenced Jan. 24, 1972 19__Drilling was completed Jan. 28, 1972 19__

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 214State whether well is shallow or artesian shallow Depth to water upon completion 62

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	61	143	82	sand water
2				
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
123/4	330	welded	1	214	214	none	74	194

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____

Street and Number _____ City _____ State _____

Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____

Plugging method used _____ Date Plugged _____ 19__

Plugging approved by: _____

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

FOR USE OF STATE ENGINEER ONLY
STATE ENGINEER OFFICE
Date Received 1972 JAN 31 AM 8:30
File No. L-5834-X-3 Use G.O.P.

Location No. 17.35.36.42311

PROOF OF COMPLETION OF WELL

17.35.35.31131

L.S. # = 39151

RB = 215'

Permit No. L-5834-X-2

1. Name of Water Right Owner Southwestern Public Service Company
Mailing address P. O. Box 1751
City and State Amarillo, Texas 79105
2. Permit is for supplemental well from shallow ground water.
(supplemental well, change location of well) (artesian or shallow)
3. Description of well:
Located in the NW 1/4 NW 1/4 SW 1/4 of Sec. 35 Twp. 17S Rge. 35E N.M.P.M., or Tract No. _____
of Map No. _____ of the _____ District; total depth, 220 feet; is well cased yes;
outside diameter of top casing (or hole, if uncased), 12-3/4 inches; if artesian, is well equipped with gate
valve _____; date drilled Jan. 15 19 72; Name of driller Abbott Brothers
4. Record of Pumping Test, if made (to be supplied by person or firm making test); Name and address of
person making test, H-H-B Inc., Box 698, Lovington N.M. 88260;
date of test Jan. 18 19 72; depth to water before test, 48 feet below land surface,
(above, below)
and pumping level during test, 83 feet; length of test, 48 hours; average discharge, 750 G.P.M.;
specific capacity of well, 19 gals./min. per foot of drawdown.
5. Permanent Pump Equipment:
(a) Description of pump: Make Johnston; Type Turbine;
size of discharge 6 inches; if turbine type, give size of column, 6 inches; diameter of
bowls 10 inches; number of bowls 6; length of suction pipe 10 feet; total length of
column, bowls and suction pipe 109 feet; if centrifugal type, give size of pump _____ inches;
if other type, describe _____;
rated capacity of pump (if known), 550 G.P.M., at 1800 rev. per min., from a depth of 254 feet.
(b) Description of power plant: Make U. S. Motor; Type Vertical Hollowshaft;
rated horsepower (if available) 40; type of drive connection to pump direct
(direct, gearhead, or belt)
(c) Actual discharge of pump, 370 G.P.M., at 1800 rev. per min., from a depth of 53 feet;
Date of test March 22 19 72.
6. If reservoir is used, give approximate size: length _____ feet; width _____; depth _____
275,000 gal. Steel Tank
7. If above well replaced an old well to be plugged or abandoned, fill out the following: the well abandoned
is located in the _____ 1/4 _____ 1/4 _____ 1/4 of Sec. _____, Twp. _____, Rge. _____.
Describe plugging method _____
Name of plugging contractor _____
8. Well Record filed with State Engineer's Office Yes.
(Yes or No)

I, H. O. Hudson, affirm that the foregoing statements are true to the best of my knowledge
and belief and that I am the agent for owner and holder of said water right.
(sole, partial, agent for, etc.,)

Southwestern Public Service Company, Permittee

By: HO Hudson v.p.

STATEMENT OF STATE ENGINEER'S REPRESENTATIVE

I hereby certify that I have inspected the above well and find it constructed in accordance with the conditions
of the permit. Note any exceptions The well has been drilled and equipped
according to the terms of the permit.

Well was producing _____ gpm against a _____ head of _____ feet at _____ rpm.
(measured) (estimated)

Old well has been _____
(plugged) (capped) (retained for other rights)

By: _____

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Southwestern Public Service CompanyStreet and Number P.O. Box 1261City Amarillo, Texas 79105 State _____Well was drilled under Permit No. L-5834-X2 and is located in theNW 1/4 NW 1/4 SW 1/4 of Section 35 Twp. 17 Rge. 35(B) Drilling Contractor Abbott Bros. License No. WD-46Street and Number Box 637City Hobbs, N.M. State _____Drilling was commenced Jan. 17, 1972 19__Drilling was completed Jan. 22, 1972 19__

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 220State whether well is shallow or artesian shallow Depth to water upon completion 64

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	63	150	87	sand water
2	150	192	42	sand tight light water
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
123/4	330	welded	1	220	220	n one	80	200

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____

Street and Number _____ City _____ State _____

Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____

Plugging method used _____ Date Plugged _____ 19__

Plugging approved by: _____ Cement Plugs were placed as follows:

Basin Supervisor

FOR USE OF STATE ENGINEER ONLY

STATE ENGINEER OFFICE

Date Received 1972 JUN 31 AM 8:30

File No. L-5834-X-2 Use G.O.P. Location No. 17.35.35-3111

No.	Depth of Plug		No. of Sacks Used
	From	To	

(Complete Form in Triplicate)
PROOF OF COMPLETION OF WELL

Well No. 17
Revised December 1944
17.35.34. 411331
L.S. EL 3926'
RB= 229

Permit No. L-5831-X

- Name of Water Right Owner Southwestern Public Service Company
Mailing address P. O. Box 1261
City and State Amarillo, Texas 79105
- Permit is for supplemental well from shallow ground water.
(supplemental well, change location of well) (artesian or shallow)
- Description of well:
Located in the NE 1/4 NW 1/4 SE 1/4 of Sec. 34 Twp. 17S Rge. 35E N.M.P.M., or Tract No. _____
of Map No. _____ of the _____ District; total depth, 232 feet; is well cased yes;
outside diameter of top casing (or hole, if uncased) 12-3/4 inches; if artesian, is well equipped with gate
valve _____; date drilled Jan. 4 1972; Name of driller Abbott Brothers
- Record of Pumping Test, if made (to be supplied by person or firm making test); Name and address of
person making test, M-H-I Inc., Box 698, Lovington, N.M. 88260;
date of test Jan. 12 1972; depth to water before test, 51 feet below land surface,
(above, below)
and pumping level during test, 80 feet; length of test, 18 hours; average discharge, 750 G.P.M.;
specific capacity of well, 26 gals./min. per foot of drawdown.
- Permanent Pump Equipment:
(a) Description of pump: Make Johnston; Type Turbine;
size of discharge 6 inches; if turbine type, give size of column, 5 inches; diameter of
bowls 10 inches; number of bowls 6; length of suction pipe 10 feet; total length of
column, bowls and suction pipe 169 feet; if centrifugal type, give size of pump _____ inches;
if other type, describe _____;
rated capacity of pump (if known), 350 G.P.M., at 1800 rev. per min., from a depth of 254 feet.
(b) Description of power plant: Make U. S. Motor; Type Vertical Hollowshaft;
rated horsepower (if available) 10; type of drive connection to pump direct.
(direct, gearhead, or belt)
(c) Actual discharge of pump, 370 G.P.M., at 1800 rev. per min., from a depth of 60 feet;
Date of test Mar. 22 1972.
- If reservoir is used, give approximate size: length 275,000 gal. Steel Tank feet; width _____; depth _____.
- If above well replaced an old well to be plugged or abandoned, fill out the following: the well abandoned
is located in the _____ 1/4 _____ 1/4 _____ 1/4 of Sec. _____, Twp. _____, Rge. _____.
Describe plugging method _____
Name of plugging contractor _____
- Well Record filed with State Engineer's Office Yes.
(Yes or No)

I, H. O. Nelson, affirm that the foregoing statements are true to the best of my knowledge
and belief and that I am the _____ owner and holder of said water right.
(sole, partial, agent for, etc.,)

Southwestern Public Service Company, Permittee

By: H. O. Nelson v.p.

STATEMENT OF STATE ENGINEER'S REPRESENTATIVE

I hereby certify that I have inspected the above well and find it constructed in accordance with the conditions
of the permit. Note any exceptions the well has been drilled and cased
according to the terms of the permit.

Well was producing _____ gpm against a _____ head of _____ feet at _____ rpm.
(measured) (estimated)

Old well has been _____
(plugged) (capped) (retained for other rights)

By: _____
Title: _____

(41)

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Southwestern Public ServiceStreet and Number Box 1261City Amarillo, Texas State _____Well was drilled under Permit No. L-5834X and is located in theNW 1/4 NW 1/4 SE 1/4 of Section 34 Twp. 17 Rge. 35(B) Drilling Contractor Abbott Bros. License No. WD-46Street and Number Box 637City Hobbs, N.M. State _____Drilling was commenced Dec. 29, 1971 19____Drilling was completed Jan. 4, 1972 19____

(Plat of 640 acres)

Elevation at top of casing in feet above sea level _____ Total depth of well 234State whether well is shallow or artesian shallow Depth to water upon completion 65

Section 2

PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	65	152	87	sand water
2	155	212	57	snad (tight) light water
3				
4				
5				

Section 3

RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
12 3/4	330-wall	welded	1	234	234	none	114	234

Section 4

RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5

PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____

Street and Number _____ City _____ State _____

Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____

Plugging method used _____ Date Plugged _____ 19____

Plugging approved by: _____

Cement Plugs were placed as follows:

FOR USE OF STATE ENGINEER ONLY	
Date Received	
File No. <u>L-58341-X</u>	Use <u>G.O.P.</u>

No.	Depth of Plug		No. of Sacks Used
	From	To	

Location No. 17.35.34. 4/1/33

PROOF OF COMPLETION OF WELL

17-35-33-422492
L.S. # = 3935'
RB = 230'Permit No. L-5834

1. Name of Water Right Owner Southwestern Public Service Company
Mailing address P. O. Box 1261
City and State Amarillo, Texas 79105
2. Permit is for supplemental well from shallow ground water.
(supplemental well, change location of well) (artesian or shallow)
3. Description of well:
Located in the NE 1/4 NE 1/4 SE 1/4 of Sec. 33 Twp. 17S Rgc. 35E N.M.P.M., or Tract No. _____
of Map No. _____ of the _____ District; total depth, 234 feet; is well cased yes;
outside diameter of top casing (or hole, if uncased), 12-3/4 inches; if artesian, is well equipped with gate
valve _____; date drilled Dec. 28 1971; Name of driller Abbott Brothers.
4. Record of Pumping Test, if made (to be supplied by person or firm making test); Name and address of
person making test, W-H-B Inc., Box 628, Lovington, N.M. 88260;
date of test Dec. 31 1971; depth to water before test, 60 feet below land surface,
(above, below)
and pumping level during test, 103 feet; length of test, 48 hours; average discharge, 750 G.P.M.;
specific capacity of well, 18 gals./min. per foot of drawdown.
5. Permanent Pump Equipment:
(a) Description of pump: Make Johnston; Type Turbine;
size of discharge 6 inches; if turbine type, give size of column, 6 inches; diameter of
bowls 10 inches; number of bowls 5; length of suction pipe 10 feet; total length of
column, bowls and suction pipe 169 feet; if centrifugal type, give size of pump _____ inches;
if other type, describe _____;
rated capacity of pump (if known), 350 G.P.M., at 1800 rev. per min., from a depth of 254 feet.
(b) Description of power plant: Make U. S. Motor; Type Vertical Hollowshaft;
rated horsepower (if available) 40; type of drive connection to pump direct.
(direct, gearhead, or belt)
(c) Actual discharge of pump, 350 G.P.M., at 1800 rev. per min., from a depth of 70 feet;
Date of test Mar. 22 1972.
6. If reservoir is used, give approximate size: length 275,000 gal. Steel Tank feet; width _____; depth _____.
7. If above well replaced an old well to be plugged or abandoned, fill out the following: the well abandoned
is located in the _____ 1/4 _____ 1/4 _____ 1/4 of Sec. _____, Twp. _____, Rgc. _____.
Describe plugging method _____
Name of plugging contractor _____
8. Well Record filed with State Engineer's Office Yes.
(Yes or No)

I, H. O. Hodson, affirm that the foregoing statements are true to the best of my knowledge
and belief and that I am the Agent for owner and holder of said water right.
(sole, partial, agent for, etc.,)

Southwestern Public Service Company, Permittee

By: H. O. Hodson v.p.

STATEMENT OF STATE ENGINEER'S REPRESENTATIVE

I hereby certify that I have inspected the above well and find it constructed in accordance with the conditions
of the permit. Note any exceptions The well has been drilled and equipped
according to the terms of the permit.

Well was producing _____ gpm against a _____ head of _____ feet at _____ rpm.
(measured) (estimated)

Old well has been _____
(plugged) (capped) (retained for other rights)

By: [Signature]

WELL RECORD

Well # 28

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Section 1

(A) Owner of well Southwestern Public Service
 Street and Number Box 1261
 City Amarillo, Texas State _____
 Well was drilled under Permit No. L-5834 and is located in the
NE 1/4 NE 1/4 SE 1/4 of Section 33 Twp 17 Rge 35 E
 (B) Drilling Contractor Abbott Bros. License No. WD-46
 Street and Number Box 637
 City Hobbs, N.M. State _____
 Drilling was commenced Dec. 23, 1971 19____
 Drilling was completed Dec. 28, 1971 19____

(Plat of 640 acres)
 Elevation at top of casing in feet above sea level _____ Total depth of well 234
 State whether well is shallow or artesian shallow Depth to water upon completion 65

Section 2. PRINCIPAL WATER-BEARING STRATA

No.	Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation
	From	To		
1	65	152	87	sand water
2	155	212	57	sand (tight) light water
3				
4				
5				

Section 3. RECORD OF CASING

Dia in.	Pounds ft.	Threads in	Depth		Feet	Type Shoe	Perforations	
			Top	Bottom			From	To
12 3/4	330 wall	welded	1	234	234	none	114	234

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Diameter Hole in in.	Tons Clay	No. Sacks of Cement	Methods Used
From	To				

Section 5. PLUGGING RECORD

Name of Plugging Contractor _____ License No. _____
 Street and Number _____ City _____ State _____
 Tons of Clay used _____ Tons of Roughage used _____ Type of roughage _____
 Plugging method used _____ Date Plugged _____ 19____
 Plugging approved by: _____

Basin Supervisor

Cement Plugs were placed as follows:

No.	Depth of Plug		No. of Sacks Used
	From	To	

FOR USE OF STATE ENGINEER ONLY

Date Received 2-2-8 1971

L-5834

Use G.O.P.

Location No. 1735-33-4224

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described well. It was certified to me by _____

Well Driller