

Exh 6

AREA OF WILSON POOL OIL PROD.
Records of ranch and oil field supply wells,
Lea County, New Mexico

Well Name	Location	Depth, ft.	Static Water Level		Remarks
			Below Land Surface, ft.	Date Measured	
West	T.21S., R.33E. NE 1/4 SE 1/4 Sec. 25	65	37.3	6-29-60	Will pump out - Has 200 foot tunnel
Standard	NE 1/4 NW 1/4 Sec. 28	223	178.6	6-29-60	Two producing wells at this site will pump dry
Jeff Davis	T.21S., R.34E. SE 1/4 NE 1/4 Sec. 1	79	70.7	6-29-60	Two producing wells at this site
Barron	SE 1/4 NE 1/4 Sec. 8	120	105.5	6-30-60	Reported yield about 20 gpm
Wilson No. 3	NE 1/4 SW 1/4 Sec. 13	234	-	-	Reported strong supply
Wilson No. 4	NE 1/4 NE 1/4 Sec. 23	197	104.4	6-27-60	Yield 22 gpm on bailing test
Tidewater	SE 1/4 SE 1/4 Sec. 23	115	82.1	6-27-60	Supplied oil field drilling operations
Christmas	SW 1/4 NE 1/4 Sec. 33	84	64.5	6-29-60	Reported yield 20-30 gpm. Well sanded in at bottom
Wilson Camp No. 2	T.21S., R.35E. Cen. NE 1/4 Sec. 7	431	-	-	
Scarborough	NE 1/4 NE 1/4 Sec. 15	184	174.2	6-27-60	Water corrosive - Weak supply
Shell	SE 1/4 NE 1/4 Sec. 24	214	205.2	6-29-60	Weak supply for stock use
Knolls	NE 1/4 SE 1/4 Sec. 28	27	24.5	6-29-60	Strong supply for stock use
North	NW 1/4 SW 1/4 Sec. 30	50	36.3	6-27-60	Strong supply for stock use

WILSON OIL COMPANY
WILSON POOL, VALDES SEVEN RIVERS
STRATIGRAPHIC UNITS ABOVE DUSTLER ANHYDRITE

Geologic Era	System	Rock Unit	Approximate thickness	Character of Rocks	Water-Bearing Properties
Cenozoic	Quaternary	Bolson deposits fine sand, and locally beds of volcanic ash	0-120	Bolson deposits, dune sand and other surficial deposits; slumped at San Simon sink	Yields meager supplies of potable water to stock and domestic wells
	Tertiary		0-160	Irregularly bedded sand, grit and clay; occasional gravel con- glomerate; interstitial and bedded lime caliche	Yields meager supplies of water to stock wells where formation is thickest
Mesozoic		Chinle formation	200-820 +	Red and green clay and silty clay with development of red and gray angular fine to medium grained sand and sandstone beds in upper part	Sand and sandstone beds capable of yields of 30 to 40 gpm to properly con- structed wells.
	Triassic	Santa Rosa sandstone	350 +	Angular to subrounded fine to medium grained gray and brown sand and sandstone interbedded with red and green clay and red siltstone.	Capable of yields up to 60 gpm to properly con- structed wells - pumping lift ranges up to 600 ft.
		Tecovas formation	180 ±	Red shale, siltstone and fine grained sandstone	Not a potential aquifer
Paleozoic		Dewey Lake red beds	375+	Red shale and siltstone veined and interbedded with gypsum	Not a potential aquifer
	Permian	Dustler formation	Not determined	Gypsum, anhydrite and dolomite with some interbedded red shale and siltstone	May contain mineralized water in sufficient quan- tities for water flood operations

Wilson Oil Co. B Lease - State No. 4
 NE 1/4 NE 1/4 Sec. 7, T.21S., R.35E.
 Elevation 3,700'

Description	Thickness, feet	Depth, feet
Sand, yellow, soft	121	121
Permo-Triassic red beds		
Red beds, shaly	294	415
Sand, gray (12 bailers water per hour)	60	475
Red beds, shaly	415	890
Red beds, sandy	85	975
Red beds, shaly	92	1,067
<u>Top of Santa Rosa water zone</u>		
Sand, red, medium (water)	27	1,094
Red beds, shaly	41	1,135
Sand, gray, medium (water)	60	1,195
<u>Base of Santa Rosa water zone</u>		
Red beds, sandy	20	1,215
Red beds, shaly	25	1,240
Red beds, sandy	51	1,291
Red beds, shaly	448	1,739
<u>Top anhydrite of Rustler formation</u>		1,739

Wilson Oil Co. - Shell State No. 2
 SE1/4 SW 1/4 Sec. 7, T.21S., R.35E.
 Elevation 3,680'

Description	Thickness, feet	Depth, feet
Caliche, white, hard	50	50
Quicksand, yellow	55	105
Permo-Triassic red beds		
Red beds, soft	225	330
Sand, gray (water)	16	346
Shale, blue	3	349
Sand, gray (water)	53	402
Red beds	608	1,010
<u>Top of Santa Rosa water zone</u>		
Sand, red (water)	30	1,040
Red beds, sandy	25	1,065
Sand, gray (water)	50	1,115
Red beds, shaly	25	1,140
Sand, gray (water)	15	1,155
Red beds, shaly	10	1,165
Sand, gray (water)	35	1,200
<u>Base of Santa Rosa water zone</u>		
Red beds	478	1,678
<u>Top of anhydrite of Rustler formation</u>		1,678

Wilson Oil Co. - State No. 17
 NE 1/4 NE 1/4 Sec. 23, T.21S., R.34E.
 Elevation 3678'

Description	Thickness, feet	Depth, feet
Caliche and sand	25	25
Sand	105	130
Permo-Triassic red beds		
Red beds	35	165
Sand and blue shale	7	172
Shale, gray sandy	14	186
Sand (water)	16	202
Red beds	78	280
Shale, brown	65	345
Shale brown and red beds	65	410
Red beds	200	610
No record	20	630
Red beds	18	648
Sand, hard	7	655
Red beds	25	680
Shale, brown sandy	20	700
Shale, sandy	70	770
<u>Top of Santa Rosa water zone</u>		
Sand	10	780
Shale, sandy	30	810
Red beds	55	865
Shale, sandy	35	900
Sand (water)	50	950
<u>Base of Santa Rosa water zone</u>		
Shale, blue	10	960
Shale, blue and red beds	12	972
Sand, hard	8	980
Red beds and blue shale	20	1,000
Red beds, shaly	50	1,050
Shale, red sandy	40	1,090
Red beds	110	1,200
Sand, hard	14	1,214
Red beds	31	1,245
No record	353	1,598
<u>Top of Rustler formation</u>		1,598

Wilson Oil Co. - State "E" 229, No. 28
 SW 1/4 SW 1/4 Sec. 23, T.21S., R.34E.
 Elevation 3702'

Caliche	20	20
Sand	130	150
Permo-Triassic red beds		
Red beds, sandy, shaly	5	155
Shale, pink, sticky	7	162
Shale, blue, sticky	3	165
Shale, brown, sticky	7	172
Shale, yellow	23	195
Sand and gravel (water)	11	206
Red beds, shaly	24	230
Shale, brown	50	280
	55	335
	15	350
Red beds, shaly	425	775
Shale, gray, sandy	30	805
Shale, blue	10	815
Red beds, shaly	15	830
Shale, gray, sandy	15	845
Red beds, sandy, shaly	40	885
Shale, blue, sandy	10	895
Red beds, sandy, shaly	10	905
<u>Top of Santa Rosa water zone</u>		
Sand, hard (2 bailers water per hour)	20	925
Sand, broken	30	955
Sand, (hole full of water)	25	980
Sand, hard	35	1,015
Sand	5	1,020
Red beds, shaly	45	1,065

(cont'd)

ILLEGIBLE