

NEW MEXICO OIL CONSERVATION COMMISSION  
Santa Fe, New Mexico

FORM C-105

WELL RECORD

Mail to Oil Conservation Commission, Santa Fe, New Mexico, of its proper agent not more than twenty days after completion of well. Follow instructions in the Rules and Regulations of the Commission. Indicate questionable data by following it with (?). SUBMIT IN TRIPLICATE.

AREA 640 ACRES  
LOCATE WELL CORRECTLY

Shell Oil Company

Gray

Well No. 2 in NW/4 SW/4 of Sec. 35, T. 14-S. 33-5, N. M. P. M., Saunders Field, Lea County.

Well is 3300 feet south of the North line and 4620 feet west of the East line of Sec. 35

If State land the oil and gas lease is No. Assignment No.

If patented land the owner is J. W. Gray, Address Lovington, New Mexico

If Government land the permittee is, Address

The Lessee is Shell Oil Company, Address Box 1957, Hobbs, New Mexico

Drilling commenced 4-17 19 52 Drilling was completed 6-6 19 52

Name of drilling contractor Oil States Drilling Co., Address 1503 First National Bank Bldg. Dallas 2, Texas

Elevation above sea level at top of casing 4185 feet.

The information given is to be kept confidential until Not confidential 19

OIL SANDS OR ZONES

No. 1, from 9768 to 9888 No. 4, from to  
No. 2, from 9888 to 9920 No. 5, from to  
No. 3, from to No. 6, from to

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from to feet.  
No. 2, from to feet.  
No. 3, from to feet.  
No. 4, from to feet.

CASING RECORD

SIZE	WEIGHT PER FOOT	THREADS PER INCH	MAKE	AMOUNT	KIND OF SHOE	CUT & FILLED FROM	PERFORATED FROM TO	PURPOSE
13-3/8	48	8rd. thd.	Nat'l.	333'				Surface string.
8-5/8	32	8rd. thd.	J&L	4199'	Baker			Water String.
5-1/2	17 & 15.5	8rd. thd.	Nat'l.	5925'	Larkin		9797 9804	Oil String.
2-3/8	4.7	8rd. thd.		9834'	Hung	9843'	9821 9829	Tubing String.

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHOD USED	MUD GRAVITY	AMOUNT OF MUD USED
17 1/2"	13-3/8	348'	325	Pump & Plug	Cemented to surface.	
11"	8-5/8	4215'	3000	Pump & Plug	Cemented to surface.	
7-7/8"	5-1/2	9909'	950	Pump & Plug		

PLUGS AND ADAPTERS

Heaving plug—Material None Length Depth Set  
Adapters—Material Size

RECORD OF SHOOTING OR CHEMICAL TREATMENT

SIZE	SHELL USED	EXPLOSIVE OR CHEMICAL USED	QUANTITY	DATE	DEPTH SHOT OR TREATED	DEPTH CLEANED OUT
None						

Results of shooting or chemical treatment Acidized perms. 9797 - 9804' & 9823 - 9829' w/1500 gallons 15% non-emulsion acid.

RECORD OF DRILL-STEM AND SPECIAL TESTS

See Reverse Side.

If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto.

TOOLS USED

Rotary tools were used from 0 feet to 9910 (DOD 9845') feet, and from feet to feet.  
Cable tools were used from feet to feet, and from feet to feet.

PRODUCTION

Put to producing 6-14-52 19  
The production of the first 24 hours was 291.60 barrels of fluid of which 10.0 % was oil; emulsion: % water; and % sediment. Gravity, Be 41.5° API  
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas  
Rock pressure, lbs. per sq. in.

EMPLOYEES

Sargent Frachise  
Henderson Driller Driller Driller

FORMATION RECORD ON OTHER SIDE

I hereby swear or affirm that the information given herewith is a complete and correct record of the well and all work done on it so far as can be determined from available records.

Hobbs, New Mexico June 18, 1952

Place Date  
Name J. D. Savage  
Position Division Exploitation Engineer  
Representing Shell Oil Company  
Company or Operator.  
Address Box 1957, Hobbs, New Mexico

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	360	360	Caliche, surface sands & red beds
360	1610	1250	Red Beds and anhydrite
1610	1665	55	Anhydrite
1665	2774	1109	Salt & anhydrite
2774	3328	554	Anhydrite
3328	3504	176	Anhydrite & gypsum
3504	4131	627	Anhydrite
4131	4158	27	Anhydrite & lime
4158	7740	3582	Lime
7740	8224	484	Lime & shale
8224	9703	1479	Lime
9703	9910	207	Lime & shale
		9910	
DST #1	9770 - 9863 (Perm.Lime)		Tool open 2-1/2 hrs. thru 5/8" DC & 1" TC on 3-1/2" DS. Immed. strong air blow, gas to surface in 9 mins. Blow diminishing to weak at end of test. Rec. 900' (6.3 bbls.) GCM 650' (4.6 bbls.) hvy. O&GCM, 280' (2.0 bbls.) med. G&GCM, est. 80% oil, and 120' (0.8 bbls.) salt water, titrating 53,000 PPM Cl <sup>-</sup> . FBHP 700 - 750 psi, 30 min. SIBHP 3375 psi, HNH 4575 psi. Oil grav. 37.3° API. <u>Positive Test.</u>
DST #2	9893 - 9905 (Perm.Lime)		Tool open 2 hrs. thru 5/8" DC & 1" TC on 3-1/2" DS. Immed. strong air blow, gas to surface in 13 mins. Blow dying in 2 hrs. Rec. 600' (4.8 bbls.) hvy. O&GCM, est. 60 - 80% oil, and 30' (0.2 bbls.) salt water titrating 32,500 PPM Cl <sup>-</sup> . FBHP 0 psi. 30-min. SIBHP 2125 psi. HNH 4675 psi. <u>Positive Test.</u>