FORM C-105

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

WELL RECORD

Sec. 3

AREA 640 ACRES
LOCATE WELL CORRECTLY

Mail to Oil Conservation Commission, Santa Fe, New Mexico, or 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.

Shell Oil Company (Company or Operator) Livingston (Lease)

Well No. 4 in SW/4 SE/4 of Sec. 3, T. 21S

R. 37E, N. M. P. M., Undesignated Field, Lea County.

Well is 330 feet ~~south~~ north of the ~~North~~ south line and 2310 feet west of the East line of Sec. 3, T-21-S, R-37-E

If State land the oil and gas lease is No. -- Assignement No. --

If patented land the owner is Livingston, Address --

If Government land the permittee is --, Address --

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

Drilling commenced 12-29-51 19__. Drilling was completed 3-3 19 52

Name of drilling contractor T. W. Moran, Inc., Address Hobbs, New Mexico

Elevation above sea level at top of casing 3419 feet.

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

OIL SANDS OR ZONES

No. 1, from 7641 to 7686 No. 4, from ____ to ____

No. 2, from 7733 to 7950 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	PERFORATED TO	PURPOSE
13 3/8"	48#	8R	--	140					Water string
8 5/8"	32#								
	24.7#	8R	Nat'l	2135	Baker				Salt string
5 1/2"	15.5#		Mixed	5061	Larkin		7641	7950	Oil string
	17#						(150 net feet)		
2 3/8"	4.7#	8R	J&L	[illegible]	Tbg.	7772	7965	7961	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"	13 3/8"	151	200	Pump & plug		
11"	8 5/8"	2147	2000	Pump & plug		
7 7/8"	5 1/2"	8013	825	Pump & plug		

PLUGS AND ADAPTERS

Heaving plug—Material ____ 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

Results of shooting or chemical treatment ____

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 8147 feet, and from ____ feet to ____ feet.

Cable tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet.

PRODUCTION

Put to producing 3-14 19 52

The production of the first 24 hours was 93.2 barrels of fluid of which 99.8 % was oil; -- % emulsion; -- % water; and 0.2 % sediment. Gravity, ~~Be~~ 43.6° API

If gas well, cu. ft. per 24 hours ____ Gallons gasoline per 1,000 cu. ft. of gas ____

Rock pressure, lbs. per sq. in. ____ GOR 813

EMPLOYEES

J. C. Jackson, Driller W. L. Morgan, Driller

F. A. Knight, 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 (Place) 3-21-52 (Date)

Name J. D. Savage J. D. Savage

Position Division Exploitation Engineer

Representing Shell Oil Company (Company or Operator.)

Box 1957, Hobbs, New Mexico

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	6800	6800	No samples taken
6800	7400	600	Dolomite w/streaks lime & shale
7400	7630	230	Shale, lime & dolomite
7630	7800	170	Sand & shale with trace dolomite & lime
7800	7980	180	Shale, dolomite, sand and trace lime
7980	8040	60	Lime
8040	8160	120	Dolomite
8160	8167	7	Granite wash
TD	8167		

CORRELATION TOPS

Clear Fork	5640	(-2221)
Tubb "A"	6126	(-2687)
Drinkard	6476	(-3049)
Abo	6750	(-3321)
Fusselman/Simpson	7380	(-3960)
McKee	7620	(-4200)
Connell	7930	(-4501)
Ellenburger lime	7986	(-4557)
Ellenburger dolomite	8035	(-4606)

DST #1: 5600-5750 (181' Blinebry dolomite) — Tool open 10 min. thru 5/8" BC & 1" TC on 3 1/2" DP. Immediate exceedingly strong blow. Gas in 1 1/2 min. Condensate in 3 min. Flowed gas with very heavy mist of condensate @ approximately/at of at least 10 MMcf/d. Rec. 20' (0.14 bbls.) oil, gravity 50.8° API & 10' (0.07 bbls.) oil & gas cut mud. IHHP 2850 psi. FBHP 1750 psi. 30 min. SIBHP 2500 psi. Positive Test.

DST #2: 6086-6410 (324' Tubb dolomite) — Tool open 30 min. thru 5/8" BC & 1" TC on 3 1/2" DP. Very strong blow immediately. Gas to surface in 4 min. Mud in 9 min. Flowed to clean & stabilize. Then flowed gas w/heavy mist condensate @ rate of 4.29 MMcf/d. Rec. 630' (3.57 bbls.) gas cut mud. FBHP 1075 psi. 30 min. SIBHP 2600 psi psi. IHHP 3150 psi. Positive Test.

DST #3: 6821-7130 (309' Wichita dolomite) (Abo) — Tool open 1 1/2 hrs. thru 5/8" BC & 1" TC on 3 1/2" DP. Weak air blow throughout test. Rec. 90' (0.7 bbls.) slightly gas cut mud & 90' (0.7 bbls.) heavily oil cut mud. FBHP 400 psi. 30 min. SIBHP 1175 psi. IHHP 3625 psi. Positive Test.

DST #4: 7128-7400 (272' Wichita dolomite) (Abo) — Tool open 5 hrs. & 45 min. thru 5/8" BC & 1" TC on 3 1/2" DP. Good blow throughout test. Gas to surface in 11 min. Mud in 2 hrs. & 35 min. Oil in 2 hrs. & 40 min. Flowed 12 bbls. oil in 1 hour. Gravity 38.1° API. FBHP 500-1675 psi. 30 min. SIBHP 1975 psi. IHHP 3700 psi. Positive Test.