

DUPLICATE

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NEGATIVE

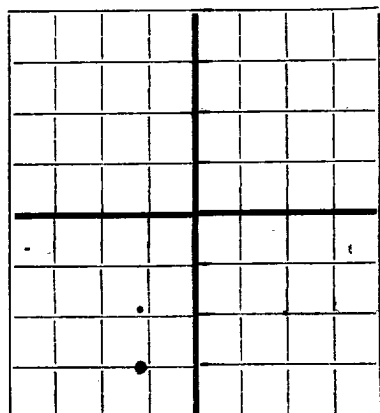
FORM C-105

N

NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

HOBBS OFFICE



AREA 640 ACRES  
LOCATE WELL CORRECTLY

WELL RECORD

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. FORM C-110 WILL NOT BE APPROVED UNTIL FORM C-105 IS PROPERLY FILLED OUT.

Shell Oil Company, Incorporated, Box 1457 Hobbs, New Mexico  
Company of Operator Address  
Arco Oil Corporation Well No. 4 in SE 1/4 of Sec. 15, T. 21-N  
Lease  
R. 37-N, N. M. P. M., Drinkard Field, Lea County.  
Well is 4620 feet south of the North line and 3300 feet west of the East line of Sec. 15, T. 21-N, R. 37-N  
If State land the oil and gas lease is No. Assignment No.  
If patented land the owner is Arco Oil Corporation, Address Midland, Texas  
If Government land the permittee is Address  
The Lessee is Shell Oil Company, Incorporated, Address Box 1457 Hobbs, New Mexico  
Drilling commenced 5-9-48 1948 Drilling was completed 6-26-48 1948  
Name of drilling contractor Drilling & Exploration Co., Address Hobbs, New Mexico  
Elevation above sea level at top of casing 3428 feet.  
The information given is to be kept confidential until not confidential 19

OIL SANDS OR ZONES

No. 1, from 6394 to 6494 No. 4, from 6559 to 6605  
No. 2, from 6494 to 6518 No. 5, from 6605 to 6630 (not penetrated completely)  
No. 3, from 6518 to 6559 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		PURPOSE
							FROM	TO	
13 3/8"	404	8rd T	Hayler	193	Texas pattern				water shut off
8 5/8"	28 & 364	8rd T	Nat'l	2872	Float				Salt Exclusion
5 1/2"	154 & 174	8rd T	Nat'l	6548	Float				oil string

MUDDING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
17 1/2"	13 3/8	208	250	yump & plug	9.44/gal	
11"	8 5/8"	2883	1500	" " "	10.24/gal	
7 7/8"	5 1/2"	6560	1000	" " "	9.44/gal	

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
Washed from 6560 to 6630 with 500 gallons mud acid and treated from 6560 ft to 6630 with 1000 gallons 15% acid.						

Results of shooting or chemical treatment See G.P.R. below. Not tested natural.

RECORD OF DRILL-STEM AND SPECIAL TESTS

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 6630 feet, and from feet to feet  
Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing 6-25 1948  
The production of the first 24 hours was 904.7 barrels of fluid of which 97.7% was oil; 0% emulsion; 0% water; and 2.3% sediment. Gravity, Be. 39.7 A.P.I. corrected  
If gas well, cu. ft. per 24 hours 654 Gallons gasoline per 1,000 cu. ft. of gas  
Rock pressure, lbs. per sq. in. G.O.R. = 740

EMPLOYEES

Ray Scarborough, Driller Joe Blumrich, Driller  
Geo. C. McDaniel, Driller M. E. Leach, 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.

Subscribed and sworn to before me this 29th

day of June 1948

Hobbs, New Mexico June 29, 1948

Name Frank E. Lovering  
Position District Superintendent

## FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
<del>NO SAMPLES</del>			<del>TAKEN ABOVE 5900 FEET</del>
5900	6140	240	Dolomite with streaks of sand and shale
6140	6200	60	Sand Top Tubbs 6140'
6200	6390	190	Dolomite with streaks of sand, shale and porosity.
6390	6630	240	Dolomite - Porous and oil stained.
<u>DST No. 1</u>	<u>6466 - 6505</u>		5/8" BHC and 1" TC. Tool open 120 minutes. Strong blow of air immediately. Gas to surface in 9 minutes. Recovered 270' (2.0 bbl) clean oil and 180' (1.3 bbl) oil and gas out mud. Hydrostatic mud head pressure 3250 psi. Flowing BHP 0 psi. 20 minute SIBHP 2500 psi.
<u>DST No. 2</u>	<u>6495 - 6516</u>		Tool open 180 minutes. Gas to surface in 7 minutes. Maximum rate 105,000 GPPD. Recovered 350' (2.6 bbl) oil and 10' (0.2 bbl) drilling fluid.
<u>DST No. 3</u>	<u>6518 - 6556</u>		1/2" BHC and 1" TC. Tool open 250 minutes. Strong air blow immediately. Gas to surface in 7 minutes. Flowed clean oil. (40 degrees API @ 70 deg. F) in 185 minutes. Surged to tank. First 15 minutes flowed 2.5 barrel oil, second 15 minutes flowed 1.25 barrels oil and died. Oil out 1/10% BS & W. Flowed gas stabilized rate 135 MCF/day. Hydrostatic mud head 3100 psi. Maximum FHP 850 psi. 15 minute SIBHP 2150 psi.
<u>DST No. 4</u>	<u>6560 - 6630</u>		3/8" BHC and 1" TC. Tool open 122 minutes. Sweet gas to surface in 6 minutes. Oil to surface in 62 minutes. Flowed 15.90 barrels oil, out 2% mud in 1 hour. Initial GOR 435. Final GOR 1284. Average GOR 953. Fluid gravity 34 degrees API corrected.