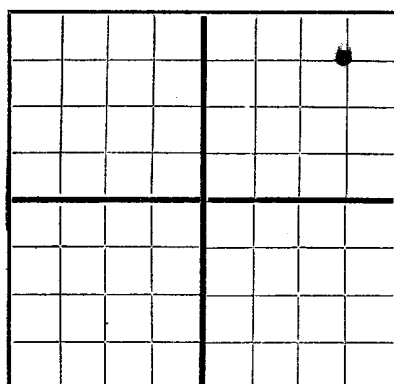


NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New MexicoAREA 640 ACRES
LOCATE WELL CORRECTLY

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

WELL RECORD

Gulf Oil Corporation Hobbs, New Mexico
Company or Operator Address
H. Leonard "E" Well No. 4 in NE NE of Sec. 16, T. 21S
Lease
R. 37E, N. M. P. M., Drinkard Field, Lea County.
Well is 660 feet south of the North line and 660 feet west of the East line of Section 16
If State land the oil and gas lease is No. Assignment No.
If patented land the owner is Jim Owens, Address Bunice, New Mexico
If Government land the permittee is, Address
The Lessee is Gulf Oil Corporation, Address Box 661, Tulsa, Oklahoma
Drilling commenced Sept. 25 19 48 Drilling was completed December 1 19 48
Name of drilling contractor Olsen Drilling Co., Address Tulsa, Oklahoma
Elevation above sea level at top of casing 3475' feet.
The information given is to be kept confidential until 19

OIL SANDS OR ZONES

No. 1, from None to No. 4, from to
No. 2, from to 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 None to feet.
No. 2, from Rotary Tools 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	
<u>13-3/8"</u>	<u>48#</u>	<u>8 rd.</u>	<u>SS</u>	<u>282'</u>					
<u>9-5/8"</u>	<u>36#</u>	<u>8 rd.</u>	<u>SS</u>	<u>2787'</u>					
<u>7"</u>	<u>23#</u>	<u>8 rd.</u>	<u>SS</u>	<u>6634'</u>					

MUDGING AND CEMENTING RECORD

SIZE OF HOLE	SIZE OF CASING	WHERE SET	NO. SACKS OF CEMENT	METHODS USED	MUD GRAVITY	AMOUNT OF MUD USED
<u>17 1/2"</u>	<u>13-3/8"</u>	<u>297'</u>	<u>300</u>	<u>Howco</u>		
<u>12 1/2"</u>	<u>9-5/8"</u>	<u>2800'</u>	<u>1300</u>	<u>"</u>		
<u>8-3/4"</u>	<u>7"</u>	<u>6645'</u>	<u>700</u>	<u>"</u>		

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
		<u>Acid 15%</u>	<u>1000</u>			
		<u>"</u>	<u>1000</u>			
		<u>"</u>	<u>3000</u>			

Results of shooting or chemical treatment Flowed 5-1/2 bbl. oil and 5-1/2 bbl. water through 3/4" choke in 24 hrs.

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 6699 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

PRODUCTION

Put to producing December 1 19 48
The production of the first 24 hours was 11 barrels of fluid of which 50 % was oil; % emulsion; 50 % water; and % sediment. Gravity, Be. 39.5
If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas
Rock pressure, lbs. per sq. in.

EMPLOYEES

Olsen Drilling Co., Driller, 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.

Subscribed and sworn to before me this 29th.day of December, 19 48[Signature]
Notary PublicMy Commission expires 10-24-49Hobbs, New Mexico 12-28-48Name E. J. GallagherPosition District SuperintendentRepresenting Gulf Oil Corporation
Company or OperatorAddress Box 1667, Hobbs, New Mexico

FORMATION RECORD

FROM	TO	THICKNESS IN FEET	FORMATION
0	115		Caliche and red bed
	303		Red Bed
	1066		Red bed
	1360		Red Rock
	1420		Streaks of salt and anhydrite
	2503		Salt and anhydrite
	2801		Anhydrite and gyp
	3000		Anhydrite and gyp
	6580		Lime
	6687		Lime
			<u>FORMATION TOPS</u>
			Anhydrite 1200'
			Base Salt 2500'
			Brown Lime 2720'
			White Lime 4020'
			Oil Pay 6645'

RECORD OF DRILL STEM TESTS

Harry Leonard "E" #4 Well No. 4 in NE NE of Sec. 16, T 21S

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

Drill Stem Tests were as follows:

November 4, 1948. DST @ TD 6687' w/5½" packer set @ 6570' (½" SS & 1" S choke). Johnson tool open 1 hr w/15 min BU, 1,165,440 CF of gas to surface in 4 minutes, increased to 1,881,510 CF at end of test. Recovered 390' oil and gas-cut mud in 4½" drill pipe and 90' in 3½" DP. FP 1100#, BUP 0, HSP 3600#, conditioned hole for 7 hrs and made second DST w/5½" packer @ 6645'. Johnson tool open 1 hr w/15 min. BU (½" SS & 1" S choke). 16,890 CF gas to surface in 17 minutes, increased to 28,500 CF at end of test. No fluid to surface. Recovered 150' of gas-cut mud with show of oil in 3½" DP. FP 0; BUP 850#, HSP 3700#.

**OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO**

CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL

Company or Operator Gulf Oil Corporation Lease Harry Leonard "E"
 Address Hobbs, New Mexico Tulsa, Oklahoma
 (Local or Field Office) (Principal Place of Business)
 Unit A Wells No. 4 Sec. 16 T 21S R 37E Field Drinkard County Lea
 Kind of Lease Privately owned. Location of Tanks On lease.
 Transporter Magnolia Pipe Line Company Address of Transporter Midland, Texas
 (Local or Field Office)
Midland, Texas Percent of oil to be transported 100 Other transporters author-
 ized to transport oil from this unit are None 00 %
 REMARKS:

This well completed and placed on a production basis December 1, 1948.

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentage of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 16th day of December, 1948

Gulf Oil Corporation
 (Company or Operator)
 By E. J. Gallagher
 Title District Superintendent

State of New Mexico
 County of Lea ss.

Before me, the undersigned authority, on this day personally appeared E. J. Gallagher known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 16th day of December, 1948

Notary Public in and for Lea County, My commission expires 10-24-49
 Approved: 12-17-1948

OIL CONSERVATION COMMISSION

By Roy O. Yarbrough

(See Instructions on Reverse Side)

INSTRUCTIONS

This form shall be executed and filed in quadruplicate with the Oil Conservation Commission at Santa Fe, New Mexico, covering each unit from which oil is produced. A separate certificate shall be filed for each transporter authorized to transport oil from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowance for one month the operator shall in lieu of filing a new certificate notify the Oil Conservation Commission at Santa Fe, New Mexico, of the transporter authorized by certificate on file with the Commission by letter of the estimated amount of oil to be moved by the transporter temporarily moving off from the unit and the name of the transporter and a copy of such notice shall also be furnished to each temporary transporter. Such temporary transporter shall not move any more oil than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil from the property named therein and shall remain in full force and effect until

Operating ownership changes

The transporter is changed or

The permit is cancelled by the Commission

If any of the rules and regulations of the Oil Conservation Commission has not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.