

Form C-110

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL

Company or Operator Shell Oil Company Lease State
Address Box 1457, Hobbs, New Mexico Box 1409, Midland, Texas
(Local or Field Office) (Principal Place of Business)
Unit "U" Wells No. 3 Sec. 2 T. 21S R. 37E Field Wildcat County Lea
Kind of Lease State Location of Tanks Center N/2 of SW/4 of Sec. 2
Transporter Shell Pipe Line Corp. Address of Transporter Box 486, Hobbs, New Mexico
(Local or Field Office)
Houston, Texas Percent of oil to be transported 100. Other transporters author-
(Principal Place of Business)
ized to transport oil from this unit are None 0 %
REMARKS: New completion. Allowable to date from 9-16-50.

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 percentages 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 18th day of September, 195 0

Shell Oil Company
(Company or Operator)
By Frank R. Lovering
Title District Superintendent

State of New Mexico
County of Lea } ss.

Before me, the undersigned authority, on this day personally appeared Frank R. Lovering 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 18th day of September, 195 0

Notary Public in and for Lea County, New Mexico My Commission Expires Sept. 16, 1954

Approved: Sept - 19 - 1950

OIL CONSERVATION COMMISSION
By Ray O. Garkrath
Oil & Gas Inspector

(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 allowable production for one month the operator shall in lieu of filing a new certificate, notify the Oil Conservation Commission at Santa Fe, New Mexico, and 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 oil from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil than the estimated amount shown in said notice.

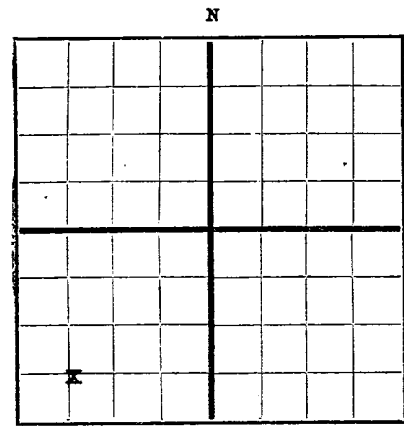
This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil from the property named therein and shall remain in full force and effect until

- (a) Operating ownership changes
- (b) The transporter is changed or
- (c) The permit is cancelled by the Commission.

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

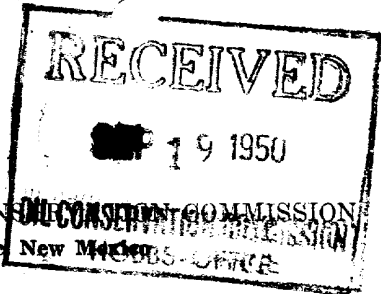
In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil.

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



AREA 640 ACRES
LOCATE WELL CORRECTLY

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe New Mexico



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
Company or Operator
State _____ Well No. 3 in SW/4 of Sec. 2 T. 21-S
Lease R. 37-E N. M. P. M. Wildcat Field, Lea County.
Well is 660 feet North of the South line and 4620 feet west of the East line of Sec. 2, T-21-S, R-37-E.
If State land the oil and gas lease is No. B-9745 Assignment No. _____
If patented land the owner is _____ Address _____
If Government land the permittee is _____ Address _____
The Lessee is Shell Oil Company Address Box 1457, Hobbs, New Mexico
Drilling commenced 7-22 19 50 Drilling was completed 9-10 19 50
Name of drilling contractor E. F. Moran, Inc. Address Hobbs, New Mexico
Elevation above sea level at top of casing 3456 feet.
The information given is to be kept confidential until Not confidential 19 _____

OIL SANDS OR ZONES

No. 1, from 6570 to 6690 (Drinkard) No. 4, from _____ to _____
No. 2, from 7670 to 7700 (Simpson) No. 5, from _____ to _____
No. 3, from 7760 to 7906 (Ellenburger) 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 observed 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" | 32.4# | 8R | Naylor | 210' | | | | | Water string |
| 8 5/8" | 32# | 8R | National | 3138' | Cameron | | | | Salt string |
| 5 1/2" | 15.5# | | | | | | | | |
| | 17# | 8R | Mixed | 7749 | Larkin | | | | Oil string |
| 2 3/8" | 4.7# | 8R | | 7891 | Hung | 7898 | 7884 | 7892 | Thg. 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 1/4" | 13 3/8" | 223 | 500 | Pump & plug | Circulated cement | |
| 11" | 8 5/8" | 3150 | 2200 | Pump & plug | Circulated cement | |
| 7 7/8" | 5 1/2" | 7760 | 500 | 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 |
|------|------------|----------------------------|----------|------|-----------------------|-------------------|
| None | | | | | | |
| | | | | | | |
| | | | | | | |

Results of shooting or chemical treatment None

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 7906 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

PRODUCTION

Put to producing 9-16 19 50
The production of the first 15 hours was 274 barrels of fluid of which 100 % was oil; No % emulsion; No % water; and No % sediment. Gravity, 42° 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 1043 Rated 24 hour potential 438 b/d

EMPLOYEES

Huff _____ Driller Barry _____ Driller
Starr _____ 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 18th day of September 19 50
Notary Public _____
My Commission expires Sept. 16, 1954
Hobbs, New Mexico
Name Frank R. Lovering
Position District Superintendent
Representing Shell Oil Company
Company or Operator
Address Box 1457, Hobbs, New Mexico
9-18-50 Date

FORMATION RECORD

| FROM | TO | THICKNESS IN FEET | FORMATION |
|-------------------------|-------------------------------------|----------------------|---|
| Surface | 105 | 105 | Caliche |
| 105 | 1330 | 1225 | Red beds |
| 1330 | 2520 | 1190 | Anhydrite & salt |
| 2520 | 7528 | 5008 | Dolomite w/streaks anhydrite, shale & silt. Oil shows in Drinkard section 6570 to 6690 feet. |
| 7528 | 7700 | 172 | Shale w/streaks of oil bearing sand |
| 7700 | 7760 | 60 | Limestone |
| 7760 | 7891 | 121 | Ellenburger dolomite bearing oil & gas |
| 7891 | 7900 | 9 | Granite wash |
| 7900 | 7906 | 6 | Granite |
| TD | 7906 | | Granite |
| TOPS BY SCHLUMBERGER: | | | |
| Permian/Simpson Contact | | 7528 (-4061') | |
| Ellenburger Lime | | 7725 (-4258') | |
| Ellenburger Dolomite | | 7760 (-4293') | |
| Granite | | 7900 (-4433') | |
| DST #1: | 6610-6690 (Drinkard) | | Tool open 120 min. Good gas blow throughout test. Gas to surface in 6 min. Gas volume TBM. Recovered 6330' (47 bbls.) oil & gas & 270' (2 bbls.) oil & gas cut mud. FBHP 700 to 750 p.s.i. <u>Positive Test.</u> |
| DST #2: | 7485-7758 (Lower Simpson Sands) | | 5/8" BC & 1" TC on 3 1/2" DS. Tool open 113 min. Very strong air blow immediately. Gas in 7 min. Mud in 9 min. Top choke plugged @ 14 min. Cleaned choke & opened top valve @ 50 min. Oil to surface immediately. Cleaned to pits for 3 min. In 1 hour flowed 116.5 bbls. oil. Gravity 43.1° API. GOR 909. Bled down & reversed out. FBHP 2570 p.s.i. 15 min. SIBHP 3090 p.s.i. HMH 3670 p.s.i. <u>Positive Test.</u> |
| DST #3: | 7676-7758 (Basal Simpson Sand) | | 5/8" BC & 1" TC on 3 1/2" DS. Tool open 75 min. Very strong air blow immediately. Gas in 4 min. Mud in 6 min. Oil in 7 min. Cleaned to pits for 8 min. In one hour flowed 112.76 bbls. oil w/30 min. gauges as follows: 55.31 & 57.45 bbls. Gravity 43.7° API. GOR 988. Bled down & reversed out recovery. FBHP 2525 p.s.i. 15 min. SIBHP 2750 p.s.i. HMH 3550 p.s.i. <u>Positive Test.</u> |
| DST #4: | 7758-7906 (Ellenburger Dolomite) | | 5/8" BC & 1" TC. Tool open 70 min. Gas in 4 min. Mud in 10 min. Oil in 14 min. Cleaned to pits for 3 min. Then flowed 42.86 bbls. oil to tank in 30 min. & 23.67 bbls. oil next 23 min. GOR 1015. FBHP 1050 to 2665 p.s.i. 15 min. SIBHP 3055 p.s.i. Bled down drill pipe & reversed out recovery. <u>Positive Test.</u> |