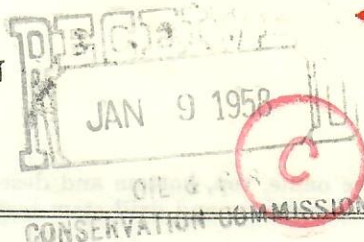




OIL AND GAS CONSERVATION COMMISSION OF THE STATE OF COLORADO

WELL COMPLETION REPORT



INSTRUCTIONS

Within thirty (30) days after the completion of any well, the owner or operator shall transmit to the Director three (3) copies of this form, for wells drilled on Patented or Federal lands and four (4) copies for wells drilled on State lands. Upon request, geological information will be kept confidential for six months after the filing thereof.

Field McKenzie Operator Northern Natural Gas Producing Company
 County Weld Address 2223 Dodge Street
 City Omaha State Nebraska
 Lease Name McKenzie FLB Well No. 1-A Derrick Floor Elevation 4542
 Location C NE SW Section 13 Township 9N Range 57W Meridian 6E
 (quarter quarter)
1980 feet from S Section line and 1980 feet from W Section Line
 N or S E or W
 Drilled on: Private Land ☒ Federal Land ☐ State Land ☐
 Number of producing wells on this lease including this well: Oil One; Gas None
 Well completed as: Dry Hole ☐ Oil Well ☒ Gas Well ☐

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Date 1-9-58

Signed Adam M. Butler
 Title Denver District Landman

The summary on this page is for the condition of the well as above date.
 Commenced drilling 7-18, 1957 Finished drilling 11-10, 1957

CASING RECORD

| SIZE | WT. PER FT. | GRADE | DEPTH LANDED | NO. SKS. CMT. | W.O.C. | PRESSURE TEST | |
|--------|-------------|-------|--------------|---------------|--------|---------------|-----|
| | | | | | | Time | Psi |
| 8 5/8" | 24# | H-40 | 223' | 125 sx. | 24 hrs | | |
| 5 1/2" | 15 1/2# | J-55 | 6014' | 250 sx. | 72 hrs | | |

CASING PERFORATIONS

| Type of Charge | No. Perforations per ft. | From | Zone | To |
|--------------------------|--------------------------|------------------------------|------|------|
| Jet Shape Chg. | 4 shots per foot | 5960 | | 5964 |
| Jet Shape Chg. | 4 shots per foot | 5943 | | 5953 |
| Jet Shape Chg. | 4 shots per foot | 5862 | | 5868 |
| TOTAL DEPTH <u>6015'</u> | | PLUG BACK DEPTH <u>5930'</u> | | |

Oil Productive Zone: From 5862 To 5868 Gas Productive Zone: From -- To --
 Electric or other Logs run Induction-Gamma-Ray - Neutron Date 8-3, 1957
 Was well cored? Yes Has well sign been properly posted? Yes

RECORD OF SHOOTING AND/OR CHEMICAL TREATMENT

| DATE | SHELL, EXPLOSIVE OR CHEMICAL USED | QUANTITY | ZONE | | FORMATION | REMARKS |
|----------|-----------------------------------|------------|------|------|-----------|--------------------|
| | | | From | To | | |
| 8-15-57 | Fresh water frac. | 10,000 gal | 5960 | 5964 | J-Sand | |
| 10-4-57 | 7 1/2% Acid | 1,500 " | 5943 | 5953 | J-Sand | 4 different washes |
| 10-23-57 | Oil frac | 5,000 " | 5862 | 5868 | D-Sand | |

Results of shooting and/or chemical treatment: ----

DATA ON TEST

Test Commenced 9 A.M. MPM January 3 1958 Test Completed 9 A.M. MPM January 6 1958

For Flowing Well:

For Pumping Well:

Flowing Press. on Csg. _____ lbs./sq.in.

Length of stroke used 54 inches.

Flowing Press. on Tbg. _____ lbs./sq.in.

Number of strokes per minute 14

Size Tbg. _____ in. No. feet run _____

Diam. of working barrel 1 1/4 inches

Size Choke _____ in.

Size Tbg. 2 in. No. feet run 5862

Shut-in Pressure _____

Depth of Pump 5828 feet.

If flowing well, did this well flow for the entire duration of this test without the use of swab or other artificial flow device?

SEE REVERSE SIDE

TEST RESULTS: Bbls. oil per day 18.34 API Gravity _____
 Gas Vol. -- Mcf/Day; Gas-Oil Ratio -- Cf/Bbl. of oil
 B.S. & W. 5 %; Gas Gravity -- (Corr. to 15.025 psi & 60°F)

"D" sand producer

Producers

FORMATION RECORD

Give name, top, bottom and description of all formations encountered, and indicate oil, gas and water bearing intervals, cored sections and drill stem tests.

| FORMATION NAME | TOP | BOTTOM | DESCRIPTION AND REMARKS |
|----------------|---------|--|---|
| Pierre | Surface | 5068 | Shale |
| Niobrara | 5068 | 5350 | Chalk and Shale |
| Ft. Hays | 5350 | 5387 | Lime |
| Codell | 5387 | 5399 | Sand |
| Carlile | 5399 | 5542 | Shale |
| Greenhorn | 5542 | 5570 | Lime |
| Bent. Marker | 5756 | 5759 | Bentonite |
| "D" Sand | 5862 | 5880 | Sand |
| "J" Sand | 5942 | -- | Sand |
| Core #1 | 5942-55 | Rec. 13' | Sand with show oil |
| Core #2 | 5955-68 | Rec. 13' | Sand with show oil |
| Core #3 | 5968-83 | Rec. 14' | Sand with show oil top 2 feet, rest water bearing |
| DST #1 | 5940-55 | Open 1 1/2 hrs, SI 30 min, Gas 8 min, Rec. 15' | oil and 15' mud. |
| DST #2 | 5953-68 | Open 1 1/2 hrs, SI 30 min, Gas 20 min, Rec. 120' | oil and 180' water |

| DATE | QUANTITY | REMARKS |
|---------|-----------|-------------------|
| 8-12-57 | 10,000 lb | Fresh water frac. |
| 10-1-57 | 1,500 " | Oil frac. |
| 1-23-57 | 2,000 " | Oil frac. |