

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Continental Oil Company Lease Jicarilla 30 Well No. 3
 Location of Well: Unit J Sec. 32 Twp. 25N Rge. 4W County Rio Arriba

| Name of Reservoir or Pool | Type of Prod. (Oil or Gas) | Method of Prod. (Flow or Art. Lift) | Prod. Medium (Tbg. or Csg.) |
|--------------------------------|----------------------------|-------------------------------------|-----------------------------|
| Upper Completion <u>Gallup</u> | <u>Oil</u> | <u>Flow</u> | <u>Casing</u> |
| Lower Completion <u>Dakota</u> | <u>Oil</u> | <u>Flow</u> | <u>Tubing</u> |

PRE-FLOW SHUT-IN PRESSURE DATA

| Upper Compl | Hour, date Shut-in | Length of time shut-in | SI press. psig | Stabilized? (Yes or No) |
|-------------|------------------------|------------------------|----------------|-------------------------|
| | <u>9:30 AM 7-25-70</u> | <u>72 Hrs.</u> | <u>815</u> | <u>No.</u> |
| Lower Compl | Hour, date Shut-in | Length of time shut-in | SI press. psig | Stabilized? (Yes or No) |
| | <u>9:30 AM 7-25-70</u> | <u>72 Hrs.</u> | <u>833</u> | <u>No.</u> |

FLOW TEST NO. 1

| Commenced at (hour, date)* <u>9:30 AM 7-28-70</u> | | | | Zone producing (Upper or Lower): <u>Lower</u> | |
|---------------------------------------------------|--------------------|--------------|--------------|-----------------------------------------------|------------------------------|
| Time (hour, date) | Lapsed time since* | Pressure | | Prod. Zone Temp. | Remarks |
| | | Upper Compl. | Lower Compl. | | |
| <u>9:30 AM 7-25-70</u> | <u>-</u> | <u>600</u> | <u>340</u> | | <u>Before Shut-In</u> |
| <u>9:30 AM 7-26-70</u> | <u>-</u> | <u>677</u> | <u>685</u> | | <u>24 Hrs. After Shut-In</u> |
| <u>9:30 AM 7-27-70</u> | <u>-</u> | <u>744</u> | <u>805</u> | | <u>48 Hrs. After Shut-In</u> |
| <u>11:30 AM 7-28-70</u> | <u>2 Hrs.</u> | <u>815</u> | <u>496</u> | | |
| <u>9:30 AM 7-29-70</u> | <u>24 Hrs.</u> | <u>860</u> | <u>347</u> | | |

Production rate during test
 Oil: 18 BOPD based on 18 Bbls. in 24 Hrs. 46.9 Grav. GOR 4,000
 Gas: 72 MCFPD; Tested thru (Orifice or Meter): Meter

MID-TEST SHUT-IN PRESSURE DATA

| Upper Compl | Hour, date Shut-in | Length of time shut-in | SI press. psig | Stabilized? (Yes or No) |
|-------------|--------------------|------------------------|----------------|-------------------------|
| | | | | |
| Lower Compl | Hour, date Shut-in | Length of time shut-in | SI press. psig | Stabilized? (Yes or No) |
| | | | | |

FLOW TEST NO. 2

| Commenced at (hour, date)** | | | | Zone producing (Upper or Lower): | |
|-----------------------------|----------------------|--------------|--------------|----------------------------------|---------|
| Time (hour, date) | Lapsed time since ** | Pressure | | Prod. Zone Temp. | Remarks |
| | | Upper Compl. | Lower Compl. | | |
| | | | | | |
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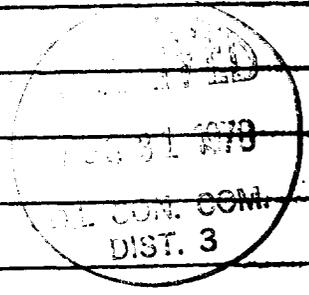
Production rate during test
 Oil: _____ BOPD based on _____ Bbls. in _____ Hrs. _____ Grav. _____ GOR _____
 Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

REMARKS: _____

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved: 8-31 1970
 New Mexico Oil Conservation Commission
 By Arthur Hendrick
 Title PETROLEUM ENGINEER DIST. NO. 3

Operator CONTINENTAL OIL COMPANY
 By Ernest D. Wilson
 Title Administrative Supervisor
 Date 8-27-70



NORTHWEST NEW MEXICO PACKER LEAKAGE TEST REGULATIONS

1. A packer leakage test shall be commenced on each suitably equipped well within seven days after actual completion of the zone and, thereafter as prescribed by the order authorizing the test, until completion. Such tests shall also be commenced on all suitably equipped wells within seven days following recompletion and/or testing or fracture treatment, and whenever remedial work has been done on a well causing such the packer or the tubing has been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Commission.
2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Commission in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.
4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone is shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. In the case of a packer leakage test, a gas well is being flowed to 100% of capacity due to the lack of a pipeline connection the flow period shall be three hours.
5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.
6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 shall be the same as for Flow Test No. 1 except that the pressure in the shut-in zone shall remain shut-in while the zone which was previously produced continues

7. Pressures for gas zone tests shall be measured on each zone with a deadweight pressure gauge at the intervals as follows: 3-hour tests: flow slowly prior to the beginning of each flow period, at fifteen-minute intervals during the test and at least at 15-minute intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 24-hour tests: immediately prior to the beginning of each flow period, at least one time during each flow period (at approximately the midway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, or may be required on wells which have previously shown questionable test data.

24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which must be checked at least twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressure as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed at the Artes District Office of the New Mexico Oil Conservation Commission on Northwest New Mexico Packer Leakage Test Form Revised 11-1-58, with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only). A pressure versus time curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test form with all deadweight pressure points taken indicated thereon. For oil zones, the pressure curve should also indicate all key pressure changes which may be reflected by the recording gauge chart. These key pressure changes should also be tabulated on the front of the Packer Leakage Test form.

PRESSURE (HUNDREDS)

