

This form is to be used for reporting packer leakage tests in Southern New Mexico

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Caulkins Oil Company Lease Breech "C" Well No. 248  
Location of Well: Unit A Sec. 13 Twp. 26 North Rge. 6 West County Rio Arriba  
Type of Prod. Gas Method of Prod. Flow Prod. Medium Tubing  
Name of Reservoir or Pool (Oil or Gas) (Flow or Art. Lift) (Tbg. or Csg.)

|                  |            |     |      |        |
|------------------|------------|-----|------|--------|
| Upper Completion | Mesa Verde | Gas | Flow | Tubing |
| Lower Completion | Dakota     | Gas | Flow | Tubing |

## PRE-FLOW 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. 1

Commenced at (hour, date)\* 8:20 AM 11-18-83 Zone producing (Upper or Lower):

| Time (hour, date) | Lapsed time since* | Pressure     |              | Prod. Zone Temp. | Remarks                           |
|-------------------|--------------------|--------------|--------------|------------------|-----------------------------------|
|                   |                    | Upper Compl. | Lower Compl. |                  |                                   |
| 8:20 AM 11-19-83  | 24 Hours           | 534          | 672          |                  | Both Zones shut-in                |
| 8:20 AM 11-20-83  | 48 Hours           | 623          | 767          |                  | Both Zones shut-in                |
| 8:20 AM 11-21-83  | 72 Hours           | 739          | 787          |                  | Both Zones shut-in                |
| 8:20 AM 11-22-83  | 24 Hours           | 762          | 236          |                  | Mesa Verde shut-in Dakota Flowing |
| 8:20 AM 11-23-83  | 48 Hours           | 771          | 242          |                  | Mesa Verde Shut-in Dakota Flowing |
|                   |                    |              |              |                  |                                   |

Production rate during test

Oil: BOPD based on Bbls. in Hrs. Grav. GORGas: MCFPD; Tested thru (Orifice or 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. |                  |         |
|                   |                      |              |              |                  |         |
|                   |                      |              |              |                  |         |
|                   |                      |              |              |                  |         |
|                   |                      |              |              |                  |         |
|                   |                      |              |              |                  |         |
|                   |                      |              |              |                  |         |

Production rate during test

Oil: BOPD based on Bbls. in Hrs. Grav. GORGas: 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: 19

Oil Conservation Division

Original Signed by CHARLES GHOLSON

By Operator Caulkins Oil CompanyBy Charles GholsonTitle SuperintendentDate 11-25-83Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

# NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. Packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as recommended by the order authorizing the multiple completion. Tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever essential work has been done on a well during which the packer or sealings have been disturbed. Tests shall also be taken at any time that a malfunction is suspected or when requested by the Division.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Direct operators shall also be so notified.

3. A 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 that if shut-in 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 remains shut-in. Production shall be continued for seven days in the case of a gas well and for 14 days in the case of an oil well. Note: If, on an initial packer leakage test, a gas well is being flowed to the atmosphere 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 as recommended 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 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 1-hour tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period. 7-day 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 requested 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 pressures 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 with the State District Office of the Oil Conservation Division in Northwest New Mexico Packer Leakage Test Form Revised 10-1-78, 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 charts. These key pressure changes should also be tabulated on the front of the Packer Leakage Test Form.