

This form is to be  
used for reporting  
data on oil and gas  
production in New Mexico

## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Southland Royalty Company Lease Federal Well No. 12-14  
Location  
of Well: Unit N Sec. 12 Twp. 26N Rge. 11W County San Juan

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

## PRE-FLOW SHUT-IN PRESSURE DATA

|             |                      |                                 |                                 |                            |
|-------------|----------------------|---------------------------------|---------------------------------|----------------------------|
| Upper Compl | Hour, date 8:30 a.m. | Length of time shut-in 168 Hrs. | SI press. T. 765<br>osig C. 765 | Stabilized?<br>(Yes or No) |
| Lower Compl | Hour, date 8:30 a.m. | Length of time shut-in 168 Hrs. | SI press. T. 320<br>osig T. 320 | Stabilized?<br>(Yes or No) |

## FLOW TEST NO. 1

Commenced at (hour, date)\* 10:30 a.m. 8-31-81 Zone producing (Upper or Lower): ~~Upper~~ Upper

| Time<br>(hour, date)  | Lapsed time<br>since* | Pressure        |              | Prod. Zone<br>Temp. | Remarks |
|-----------------------|-----------------------|-----------------|--------------|---------------------|---------|
|                       |                       | Upper Compl.    | Lower Compl. |                     |         |
| 10:45 a.m.<br>8-31-81 | 15 min.               | T. 93<br>C. 602 | T. 320       |                     |         |
| 11:00 a.m.<br>8-31-81 | 30 min.               | T. 82<br>C. 498 | T. 321       |                     |         |
| 11:15 a.m.<br>8-31-81 | 45 min.               | T. 77<br>C. 382 | T. 321       |                     |         |
| 11:30 a.m.<br>8-31-81 | 60 min.               | T. 49<br>C. 323 | T. 323       |                     |         |
| 12:30 p.m.<br>8-31-81 | 120 min.              | T. 28<br>C. 243 | T. 325       |                     |         |
| 1:30 p.m.<br>8-31-81  | 180 min.              | T. 26<br>C. 222 | T. 325       |                     |         |

Production rate during test

Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GCR \_\_\_\_\_

Gas: \_\_\_\_\_ MCFPD; Tested thru (Orifice or Meter): \_\_\_\_\_

## MID-TEST SHUT-IN PRESSURE DATA

|             |                      |                                 |                                 |                            |
|-------------|----------------------|---------------------------------|---------------------------------|----------------------------|
| Upper Compl | Hour, date 1:30 p.m. | Length of time shut-in 168 Hrs. | SI press. T. 728<br>osig C. 728 | Stabilized?<br>(Yes or No) |
| Lower Compl | Hour, date 8:30 a.m. | Length of time shut-in 336 Hrs. | SI press. T. 337<br>osig T. 337 | Stabilized?<br>(Yes or No) |

## FLOW TEST NO. 2

Commenced at (hour, date)\*\* 10:15 a.m. 9-7-81 Zone producing (~~XXXXXX~~ Lower): Lower

| Time<br>(hour, date) | Lapsed time<br>since ** | Pressure         |              | Prod. Zone<br>Temp. | Remarks |
|----------------------|-------------------------|------------------|--------------|---------------------|---------|
|                      |                         | Upper Compl.     | Lower Compl. |                     |         |
| 10:30 a.m.<br>9-7-81 | 15 min.                 | T. 728<br>C. 728 | C. 0         |                     |         |
| 10:45 a.m.<br>9-7-81 | 30 min.                 | T. 728<br>C. 728 | C. 0         |                     |         |
| 11:00 a.m.<br>9-7-81 | 45 min.                 | T. 728<br>C. 728 | C. 0         |                     |         |
| 11:15 a.m.<br>9-7-81 | 60 min.                 | T. 728<br>C. 728 | C. 0         |                     |         |
| 12:15 p.m.<br>9-7-81 | 120 min.                | T. 728<br>C. 728 | C. 0         |                     |         |
| 1:15 p.m.<br>9-7-81  | 180 min.                | T. 728<br>C. 728 | C. 0         |                     |         |

Production rate during test

Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hrs. \_\_\_\_\_ GOR \_\_\_\_\_

Gas: \_\_\_\_\_ MCFPD; Tested thru (Orifice or Meter): \_\_\_\_\_

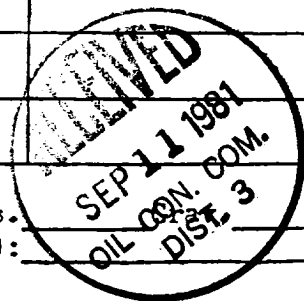
REMARKS: \_\_\_\_\_

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

SEP 11 1981  
19Approved: \_\_\_\_\_  
Oil Conservation Division

Original Signed by CHARLES GHOLSON

Title DEPUTY OIL &amp; GAS INSPECTOR, DIST. #3

Operator Southland Royalty CompanyBy James SmithTitle District Field ForemanDate September 10, 1981

[illegible]

1. The first 10 days after arrival in camp when both zones of the dual system are still in the process of stabilization. Both zones shall remain in the stabilization period in order to reach such stabilization, provided that the first zone does not reach a state more than seven days.

At the end of the flow test No. 1, the well shall again be shut-in and the wellhead shall be secured in accordance with paragraph 3 above.

It is noted that the shell is unfractured even though no leak was indicated by the pressure test. The reason for this Test No. 1 is to be the same as the reason for Test No. 2, that the previously produced zone shall remain intact and the zone which was previously shut-in is produced.

24-hour oil zone tests: All pressures, through at least one 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 dead-end pressure gauge. If a well is a gas-oil or an oil-water well, the recording gauge shall be required on the oil zone only, with recording pressure as required above being taken on the gas zone.

8. The results of the above-described test shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the Aztec Regional Office, the Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-1-69, with all deadweight pressures indicated thereon as well as the following temperatures (in zones only) and gravity and 220 oil zones indicated on the pressure-time curve for each zone of each test shall be constructed on the standard size of the Packer Leakage Test Form with all deadweight pressures and zone taken indicated thereon. For oil zones, the pressure curve should be plotted on all key pressure changes which may be reflected by the recording gauge charts. These key pressure changes should also be indicated on the front of the Packer Leakage Test Form.

