

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator SOUTHLAND ROYALTY COMPANY Lease Calloway Well No. 2
Location of Well: Unit A Sec. 22 Twp. 31N Rge. 11W County San Juan

	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	Undesignated Fruitland	Gas	Flow	Casing
Lower Completion	Aztec Pictured Cliffs	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in	9-11-82	Length of time shut-in	72 Hrs.	SI press. psig	C. 435	Stabilized? (Yes or No)
Lower Compl	Hour, date Shut-in	9-11-82	Length of time shut-in	72 Hrs.	SI press. psig	T. 500	Stabilized? (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*				9-14-82		Zone producing (Upper or Lower):		Lower
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks			
		Upper Compl.	Lower Compl.					
9-12-82		C. 432	T. 479					
9-13-82		C. 434	T. 489					
9-14-82		C. 435	T. 500					
9-15-82	24 Hrs.	C. 437	T. 439					
9-16-82	48 Hrs.	C. 439	T. 428					

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hrs. _____ Grav. _____ GOR _____
Gas: _____ 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. _____ 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: SEP 24 1982 19 _____
Oil Conservation Division

Original Signed by CHARLES GHOLSON
By _____

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator SOUTHLAND ROYALTY COMPANY

By James W. Smith

Title District Field Foreman

Date September 23, 1982

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. Packer leakage tests shall be commenced on each multiply completed well immediately after initial completion of the well, and annually thereafter, as required by the order authorizing the multiple completion. Packer leakage tests shall be commenced on all multiple completions within 30 days of initial completion and/or chemical or fracture treatment. If a packer seal has been done on a well during which the packer leakage test has been interrupted, tests shall also be taken at any time the packer seal is suspected or when requested by the Division.

2. Packer leakage tests shall be commenced on any packer leakage test, as requested by the Division in writing of the exact time the packer seal is suspected. Offset operators shall also be so notified.

3. Packer leakage tests 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 the test shall not remain shut-in more than seven days.

4. In the case of a dual zone of the dual completion shall be produced during the test, while the other zone remains shut-in. In the case of a gas well, the test shall be conducted for seven days in the case of a gas well and for 15 days in the case of an oil well. **NOTE:** If, on an initial packer leakage test, the well-head pressure is being flowed to the atmosphere due to the lack of a packer seal, the flow period shall be three hours.

5. After completion of Flow Test No. 1, the well shall again be shut-in for pressure stabilization as required above.

6. A second packer leakage test shall be conducted even though no leak was indicated on the first test. The 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 and 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: 3-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 Aztec District Office of the Oil Conservation Division on 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.

