

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator SOUTHLAND ROYALTY COMPANY Lease Harrison Well No. 2  
 Location of Well: Unit K Sec. 31 Twp. 32N Rge. 10W County San Juan

	Name of Reservoir or Pool	Type of Prod. (Oil or Gas)	Method of Prod. (Flow or Art. Lift)	Prod. Medium (Top. or Csg.)
Upper Completion	Undesignated Fruitland	Gas	Flow	Tubing
Lower Completion	Blanco Pictured Cliffs	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Well	Hour, date	Length of time shut-in	SI press. psig	T. / C.	Stabilized? (Yes or No)
Upper	Shut-in 9-17-83	72 Hrs.		T. 486 C. 491	
Lower	Shut-in 9-17-83	72 Hrs.		T. 452	

FLOW TEST NO. 1

Commenced at (hour, date)*		Pressure		Prod. Zone	Remarks
Time (hour, date)	Lapsed time since*	Upper Compl.	Lower Compl.	Temp.	
9-18-83		T. 485 C. 489	T. 450		
9-19-83		T. 485 C. 489	T. 451		
9-20-83		T. 486 C. 491	T. 452		
9-21-83	24 Hrs.	T. 486 C. 491	T. 443		
9-22-83	48 Hrs.	T. 487 C. 492	T. 457		

Production rate during test  
 Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hrs. Grav. \_\_\_\_\_ GOR \_\_\_\_\_  
 Gas: \_\_\_\_\_ MCFPD; Tested thru (Crifice or Meter): \_\_\_\_\_

MID-TEST SHUT-IN PRESSURE DATA

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

FLOW TEST NO. 2

Commenced at (hour, date)**		Pressure		Prod. Zone	Remarks
Time (hour, date)	Lapsed time since **	Upper Compl.	Lower Compl.	Temp.	

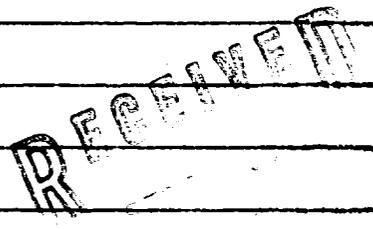
Production rate during test  
 Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hrs. Grav. \_\_\_\_\_ GOR \_\_\_\_\_  
 Gas: \_\_\_\_\_ MCFPD; Tested thru (Orifice or Meter): \_\_\_\_\_

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

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

Approved: \_\_\_\_\_ 19\_\_\_\_\_  
 Oil Conservation Division  
 By \_\_\_\_\_  
 Title \_\_\_\_\_

Operator SOUTHLAND ROYALTY COMPANY  
 By James W. Smith  
 Title District Field Foreman  
 Date September 23, 1983



NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be witnessed on each multiply completed well at the time of initial completion of the well, and annually thereafter until the well is abandoned or until the multiple completion is abandoned.
2. The packer leakage test shall be conducted on all multiple completions within 15 days after the well is completed or after a mechanical or fracture treatment, and on all multiple completions on a well during which the packer has been set.
3. Packer leakage tests shall also be taken at any time requested by the Division.
4. The packer leakage test shall commence when both zones of the dual completion are at pressure stabilization. Both zones shall remain at pressure stabilization for seven days in the case of a gas well and for three days in the case of an oil well. Note: If, on an initial packer leakage test, the well is shut-in due to the lack of pressure stabilization, the flow period shall be three hours.
5. If a packer leakage test No. 1, the well shall again be shut-in for three hours.
6. A packer leakage test shall be conducted even though no leak was indicated on the previous test. The test shall be the same as the previous test, but the previously produced zone shall remain shut-in if it was previously shut-in.

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. 1-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.
8. 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.
9. 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.

