

OIL CONSERVATION DIVISION

Revised 10-1-78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator SOUTHLAND ROYALTY COMPANY Lease Johnson Well No. 1Location Well: Unit I Sec. 7 Twp. 25N Rge. 03W County Rio ArribaName of Reservoir or Pool Blanco Mesaverde Type of Prod. Gas Method of Prod. Flow Prod. Medium Tubing
(Oil or Gas) (Flow or Art. Lift) (Tbg. or Cag.)Upper Completion Blanco Mesaverde Gas Flow TubingLower Completion Ojito Gallup Dakota Gas Flow Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Hour, date 6-12-83 Length of time shut-in 72 Hrs. SI press. T. 565 Stabilized? (Yes or No)
Lower Shut-in 6-12-83 time shut-in 72 Hrs. psig C. 840 (Yes or No)Upper Hour, date 6-12-83 Length of time shut-in 72 Hrs. SI press. T. 180 Stabilized? (Yes or No)
Lower Shut-in 6-12-83 time shut-in 72 Hrs. psig T. 180 (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)* 6-15-83 Zone producing (~~Upper~~ Lower): Lower

Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
6-13-83		T. 480	T. 180		Well logged off, will not
		C. 735			
6-14-83		T. 525	T. 180		unload.
		C. 790			
6-15-83		T. 565	T. 180		
		C. 840			
6-16-83	24 Hrs.	T. 584	T. 40		
		C. 865			
6-17-83	48 Hrs.	T. 590	T. 40		
		C. 874			

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 Hour, date Length of time shut-in SI press. Stabilized?
Lower Shut-in time shut-in psig (Yes or No)Upper Hour, date Length of time shut-in SI press. Stabilized?
Lower Shut-in time shut-in psig (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: JUN 30 1983 19
Oil Conservation DivisionOriginal Signed by CHARLES GHOLSONTitle DEPUTY OIL & GAS INSPECTOR, DIST. #3Operator SOUTHLAND ROYALTY COMPANYBy James Wm SmithTitle District Field ForemanDate June 28, 1983

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. The packer leakage test shall be commenced on each multiply completed well immediately after actual completion of the well, and annually thereafter, by the order authorizing the multiple completion. The test shall be commenced on all multiple completions within 30 days of completion and/or chemical or fracture treatment. If a well has been shut-in on a well during which the packer leakage test has been conducted, tests shall also be taken at any time the well is permitted or when requested by the Division.
2. The Division shall be notified of the commencement of any packer leakage test, and the Division in writing of the exact time the test is commenced. The Division operators shall also be so notified.
3. The packer leakage test shall commence when both zones of the dual completion have reached pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided the well is not shut-in more than seven days.
4. If a well is shut-in on one zone of the dual completion shall be produced while the other zone remains shut-in. The well shall be maintained for seven days in the case of a gas well and for 30 days in the case of an oil well. Note: If, on an initial packer leakage test, a well is being flowed to the atmosphere due to the lack of pressure in the zone, the flow period shall be three hours.
5. After completion of Flow Test No. 1, the well shall again be shut-in until the well-head pressure is stabilized.
6. Flow Test No. 2 shall be conducted even though no leak was indicated in Flow Test No. 1. 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 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 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.

