

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator SOUTHLAND ROYALTY COMPANY Lease Childers Well No. 2
Location
of Well: Unit M Sec. 1 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 (Tub. or Cag.)
Upper Completion Undesignated Fruitland	Gas	Flow	Tubing
Lower Completion Blanco Pictured Cliffs	Gas	Flow	Tubing

PRE-FLOW TEST-IN PRESSURE DATA

Upper Completion	Hour, date	Length of time shut-in	SI press. psig	T. 493	Stabilized? (Yes or No)
Lower Completion	Shut-in 9-17-83	72 Hrs.	psig	C. 493	(Yes or No)
Upper Completion	Hour, date	Length of time shut-in	SI press. psig	T. 521	Stabilized? (Yes or No)
Lower Completion	Shut-in 9-17-83	72 Hrs.	psig	C. 521	(Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)* 9-20-83				Zone producing (Upper or Lower): Lower	
Time (hour, date)	Lapsed time since*	Pressure	Prod. Zone	Temp.	Remarks
		Upper Compl. Lower Compl.			
9-18-83		T. 482 C. 482	T. 497		
9-19-83		T. 489 C. 489	T. 512		
9-20-83		T. 493 C. 493	T. 521		
9-21-83	24 Hrs.	T. 497 C. 497	T. 454		
9-22-83	48 Hrs.	T. 501 C. 501	T. 454		

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 Completion	Hour, date	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	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: 19
Oil Conservation Division

By

Title 43

Operator SOUTHLAND ROYALTY COMPANY

By James W. Smith

Title District Field Foreman

Date September 23, 1983

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NEW MEXICO OIL CONSERVATION DIVISION 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, or more often if authorized by the Division.
2. Packer leakage tests shall be conducted on all multiple completions within 30 days of completion and/or chemical or fracture treatment, or whenever a packer is run on a well during which the packer is not cemented.
3. Tests shall also be taken at any time requested or when requested by the Division.
4. Packer leakage tests shall be commenced on any packer leakage test, the Division is writing of the exact time the packer is run. Packer operators shall also be so notified.
5. Packer leakage tests shall commence when both zones of the dual completion are flowing. Both zones shall be shut-in when the pressure in each has stabilized, provided the shut-in period shall not exceed more than seven days.
6. Packer leakage tests shall be conducted on the dual completion while the other zone remains shut-in. The test shall be conducted 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 test, a well is shut-in due to the lack of flow, the flow period shall be three hours.
7. If, on a test, the well shall again be shut-in, the test shall be conducted as above.
8. Packer leakage tests shall be conducted even though no leak was indicated on the previous test. For Flow Test No. 2 is to be the same as the previously produced zone shall be shut-in. 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 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 10-1-73, 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.

