

OIL CONSERVATION DIVISION

Revised 10-1-78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator SOUTHLAND ROYALTY COMPANY Lease Lease Well No. 19
Location

of Well: Unit B Sec. 18 Twp. 28N Rge. 9W County San Juan

Type of Prod. (Oil or Gas) Method of Prod. (Flow or Art. Lift) Prod. Medium (Tbg. or Cag.)

Upper Completion	Blanco Mesaverde	Gas	Flow	Casing
Lower Completion	Basin Dakota	Gas	Flow	Tubing

FRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl.	Hour, date Shut-in	9-18-82	Length of time shut-in	72 Hrs.	SI press. psig	C. 515	Stabilized? (Yes or No)
Lower Compl.	Hour, date Shut-in	9-18-82	Length of time shut-in	72 Hrs.	SI press. psig	T. 585	Stabilized? (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*		Zone producing (Upper or Lower) <u>Lower</u>		
Time (hour, date)	Lapsed time since*	Pressure Upper Compl.	Prod. Zone Temp.	Remarks
9-19-82		C. 504	T. 579	
9-20-82		C. 504	T. 579	
9-21-82		C. 515	T. 585	
9-22-82	24 Hrs.	C. 515	T. 549	
9-23-82	48 Hrs.	C. 515	T. 349	

Production rate during test

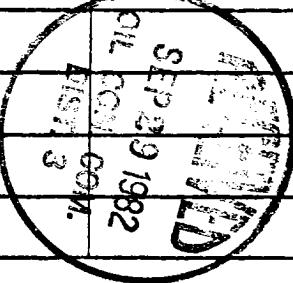
Oil: BOPD based on _____ Bbls. in Hrs. _____ Grav. GOR _____
Gas: MCFPD; Tested thru (Orifice or Meter): _____

HTD-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 Upper Compl.	Prod. Zone Temp.	Remarks



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.

SEP 29 1982

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Approved: Oil Conservation Division
By Original Signed by CHARLES GHOLSON

Operator SOUTHLAND ROYALTY COMPANY

By James W. Smith

Title District Field Foreman

Date 9-28-82

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

7. Packer leakage tests shall be commenced on each multiply completed well as soon as possible after initial completion of the well, and annually thereafter, or as required by the order authorizing the multiple completion. Tests shall also be performed on all multiple completions within one month of completion and/or chemical or fracture treatment, or as required by the operator, the same day on a well during which the packer has been set or re-set. Tests shall also be taken at any time requested by the Division or when requested by the Division.

8. The operator shall advise the Division in writing of the exact time the test is to be made. Lessee operators shall also be so notified.

9. The flow test shall commence when both zones of the dual completion have stabilized for pressure stabilization. Both zones shall remain shut-in until well-head pressure in each has stabilized, provided the total time does not remain shut-in more than seven days.

10. If a gas zone is present, the zone of the dual completion shall be produced at a rate of 1000 BOPD or less while the other zone remains shut-in. This shall be continued for seven days in the case of a gas well and 14 days in the case of an oil well. Note: If, on an initial packer test, no gas is present, the gas will flow to the atmosphere due to the lack of pressure. The total time for the flow period shall be three hours.

11. After completion of Flow Test No. 1, the well shall again be shut-in and the procedure described above.

12. A second flow test will be conducted even though no leak was indicated in the first flow test, provided 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 until 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: 1-hour tests: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and in 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.

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 11 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.

