STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

Revised 10-1-78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator SOUTHLAND ROYALTY COMPANY Lease Hedges, Sara Well No. 3

Location of Well: Unit A Sec. 23 Twp. 31 Rge. 12 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	Casing

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Upper Compl	3-6-83	72 Hrs.	C. 541	
Lower Compl	3-6-83	72 Hrs.	C. 472	

FLOW TEST NO. 1

Commenced at (hour, date)* 3-9-83 Zone producing (~~Upper~~ or Lower): Lower

Time (hour, date)	Lapsed time since*	Pressure Upper Compl.	Pressure Lower Compl.	Prod. Zone Temp.	Remarks
3-7-83		C. 541	C. 448		
3-8-83		C. 541	C. 443		
3-9-83		C. 541	C. 472		
3-10-83	24 Hrs.	C. 541	C. 196		Dump Valve hung open
3-11-83	48 Hrs.	C. 541	C. 383		

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

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

FLOW TEST NO. 2

Commenced at (hour, date)** Zone producing (Upper or Lower):

Time (hour, date)	Lapsed time since **	Pressure Upper Compl.	Pressure Lower 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.

Approved: MAR 23 1983 19____
Oil Conservation Division

By Original Signed by CHARLES GHOLSON

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator SOUTHLAND ROYALTY COMPANY

By James Wm Smith

Title District Field Foreman

Date March 22, 1983

[illegible] PACKER LEAKAGE TEST INSTRUCTIONS

1. [illegible] shall be commenced on each multiply completed [illegible] completion of the well, and annually [illegible] order authorizing the multiple completion. [illegible] commenced on all multiple completions within [illegible] completion and/or chemical or fracture treatment, [illegible] has been done on a well during which the packer [illegible] or whenever. Tests shall also be taken at any time [illegible] as may be required or when requested by the Division.

2. [illegible] prior to the commencement of any packer leakage test, [illegible] the Division in writing of the exact time the [illegible] Offset operators shall also be so notified.

3. [illegible] test shall commence when both zones of the dual [illegible] shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than seven days.

4. [illegible] the zone of the dual completion shall be produced [illegible] Division while the other zone remains shut-in. [illegible] for seven days in the case of a gas well and [illegible] in the case of an oil well. Note: If, on an initial packer [illegible] well is not flowed to the atmosphere due to the lack [illegible] the flow period shall be three hours.

5. [illegible] Flow Test No. 1, the well shall again be shut-[illegible] as prescribed in paragraph 3 above.

6. [illegible] shall be conducted even though no leak was indicated [illegible] Flow Test No. 2 is to be the same [illegible] except that the previously produced zone shall remain [illegible] 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.