

This form is to be
used for recording
Packer Leakage Tests
in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator SOUTHLAND ROYALTY COMPANY Lease HARRISON Well No. 1A
Location of Well: Unit D Sec 31 Twp 32 Rge. 10 County SAN JUAN

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. Oil or Gas	METHOD OF PROD. Flow or APL Lift	PROD. MEDIUM (Tub. or Csg.)
Upper Completion:	PICTURED CLIFFS	GAS	FLOW	TUBING
Lower Completion:	MESA VERDE	GAS	FLOW	TUBING

PRE-FLOW SHUT-IN PRESSURE DATA

	Hour, Date Shut-in	Length of Time Shut-in	SI Press. psig	Stabilized? (Yes or No)
Upper Completion:	05-21-89	3 DAYS	328	
Lower Completion:	05-21-89	3 DAYS	394	

FLOW TEST NO. 1

Commenced at (Hour, Date):		05-24-89		Zone producing (Upper or Lower):		Lower
TIME Hour, Date:	LAPSED TIME SINCE	PRESSURE		PROD. ZONE TEMP		REMARKS
		Upper Completion	Lower Completion			
05-22	1 DAY	328	388			BOTH ZONES SHUT-IN
05-23	2 DAYS	328	393			BOTH ZONES SHUT-IN
05-24	3 DAYS	328	394			BOTH ZONES SHUT-IN
05-25	1 DAY	328	352			LOWER ZONE FLOWING
05-26	2 DAYS	328	370			LOWER ZONE FLOWING

Production rate during test:

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ 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 Completion:				
Lower Completion:				

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Page

FLOW TEST NO. 1

Commenced at hour, date		LAPSED TIME SINCE ==		PRESSURE		Zone producing (Upper or Lower)	REMARKS
TIME hour, date				Upper Completion	Lower Completion	PROD. ZONE TEMP	

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ 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 _____
New Mexico Oil Conservation Division

Original Signed by CHARLES GRULSON

By _____

Title DEPUTY OIL & GAS INSPECTOR, N.M.C.D.

Operator SOUTHLAND ROYALTY COMPANY

By W.S. Smith

Title _____

Date JUN 07 1989

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiple completed well within seven days after initial completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
2. At least 24 hours prior to the commencement of any packer leakage test, the operator shall notify the Division in writing of the exact time the test is to be commenced. Offset operations shall also be so notified.
3. The packer leakage test shall commence when both zones of the dual completion are 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. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued for seven days in the case of a gas well and for 24 hours in the case of an oil well. Note: if, on an initial packer leakage test, a gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall be three hours.
5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.
6. Flow Test No. 2 shall be conducted on wells which have previously been tested.

that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 5 hours test: 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 test: immediately prior to the beginning of the 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 test: 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 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 Area District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and the flowing rates.