STATE OF NEW MEXICO

ENERGY and MINERALS DEPARTMENT

This form is not to be used for reporting packer leakage tests in Southeast New Mexico

OIL CONSERVATION DIVISION

Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator NORTHWEST PIPELINE CORPORATION Lease ROSA UNIT Well No. 145

Location of Well: Unit G Sec. 16 Twp. 31N Rge. 6W County SAN JUAN

	NAME OF RESERVOIR OR POOL	TYPE OF PROD (Flow or Art. Lift)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	PICTURED CLIFFS	GAS	FLOW	TUBING
Lower Completion	MESA VERDE	GAS	FLOW	TUBING

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 1600 HOURS, 10-24-94	Length of time shut-in 7 DAYS	SI press. psig SITP = 1344, SICP = 1344	Stabilized? (Yes or No) YES
Lower Completion	Hour, date shut-in 1600 HOURS, 10-22-94	Length of time shut-in 9 DAYS	SI press. psig SITP = 1108	Stabilized? (Yes or No) YES

FLOW TEST NO. 1

Commenced at (hour, date)* 10-28-94 Zone producing (Upper or Lower) LOWER

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE			PROD. ZONE TEMP.	REMARKS
		Upper Completion		Lower Completion		
		TBG	CSG	TBG		
1715, 10-28-94	0.5 HOURS	1345	1345	272	56	LIGHT MIST
1745, 10-28-94	1.0 HOURS	1345	1345	267	58	LIGHT MIST
1815, 10-28-94	1.5 HOURS	1345	1345	260	58	LIGHT MIST
1845, 10-28-94	2.0 HOURS	1345	1345	255	58	LIGHT MIST
1915, 10-28-94	2.5 HOURS	1345	1345	248	58	LIGHT MIST
1945, 10-28-94	3.0 HOURS	1345	1345	244	58	LIGHT MIST

Production rate during test:

Oil: NONE BOPD based on _____ BBLs. in _____ Hours, _____ Grav. _____ GOR _____

Gas: 3206 MCF/D LIGHT MIST MCF/D: Tested thru (Orifice or Meter): 2" x 3/4" PROVER

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 1900 HOURS, 10-22-94	Length of time shut-in 11 DAYS	SI press. psig SITP = 1368 SICP = 1368	Stabilized? (Yes or No) YES
Lower Completion	Hour, date shut-in 1600 HOURS, 10-28-94	Length of time shut-in 3 DAYS	SI press. psig SITP = 1100	Stabilized? (Yes or No) YES

(Continue on reverse side)

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST
FLOW TEST NO. 2

Commenced at (hour, date)* 10-31-94					Zone producing (Upper or Lower) UPPER	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE			PROD. ZONE TEMP.	REMARKS
		Upper Completion		Lower Completion		
		TBG	CSG	TBG		
1610 10-31-94	0.5 HOURS	246	982	1105	77	HEAVY MIST
1640 10-31-94	1.0 HOURS	186	878	1105	83	HEAVY MIST
1710 10-31-94	1.5 HOURS	157	805	1105	85	HEAVY MIST
1740 10-31-94	2.0 HOURS	136	778	1105	86	HEAVY MIST
1810 10-31-94	2.5 HOURS	120	717	1105	82	HEAVY MIST
1840 10-31-94	3.0 HOURS	110	682	1105	80	HEAVY MIST

Oil: NONE BOPD based on _____ BBLs. in _____ Hours, _____ Grav. _____ GOR _____

Gas: 1476 MCF/D HEAVY MIST MCF/D: Tested thru (Orifice or Meter): 2" x 3/4" PROVER

Remarks: _____

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved NOV 10 1994 19___
New Mexico Oil Conservation Division

By Johnny Robinson
Title DEPUTY OIL & GAS INSPECTOR, DIST. 3

Operator NORTHWEST PIPELINE CORPORATION

By Mark McCallister
Title Senior Engineer
Date November 7, 1994

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual 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 72 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 operators 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 leak 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 even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zoned shall remain shut-in while the zone which was previously shut-in is produced.

7. Pressures for gas-zones tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours 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. Test shall be filed with the Aztec 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

(Continue on reverse side)