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

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OIL CON. DIV.
DIST. 3

Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator NORTHWEST PIPELINE CORPORATION Lease ROSA UNIT Well No. 88A

Location of Well: Unit L Sec. 8 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 1400 HOURS, 10-22-94	Length of time shut-in 10 DAYS	SI press. psig SITP = 1009, SICP = 1101	Stabilized? (Yes or No) YES
Lower Completion	Hour, date shut-in 1200 HOURS, 10-22-94	Length of time shut-in 10 DAYS	SI press. psig SITP = 1022	Stabilized? (Yes or No) YES

FLOW TEST NO. 1

Commenced at (hour, date)* 1445 MST, 11-01-94 Zone producing (Upper or Lower) LOWER

TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE			PROD. ZONE TEMP.	REMARKS
		Upper Completion		Lower Completion		
		TBG	CSG	TBG		
1515, 11-01-94	0.5 HOURS	1009	1104	224	55	IP TEST ON MV
1545, 11-01-94	1.0 HOURS	1007	1109	221	56	
1615, 11-01-94	1.5 HOURS	1009	1108	219	57	UNLOAD TO LIGHT MIST
1645, 11-01-94	2.0 HOURS	1009	1108	214	57	
1715, 11-01-94	2.5 HOURS	1008	1108	211	57	
1745, 11-01-94	3.0 HOURS	1010	1109	210	57	

Production rate during test:

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

Gas: 2771 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 1400 HOURS, 10-22-94	Length of time shut-in 12.5 DAYS	SI press. psig SITP = 1099 SICP = 1110	Stabilized? (Yes or No) YES
Lower Completion	Hour, date shut-in 1745 HOURS, 11-01-94	Length of time shut-in 2.6 DAYS	SI press. psig SITP = 1029	Stabilized? (Yes or No) YES

(Continue on reverse side)

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

Commenced at (hour, date)* 0800 MST, 11-04-94					Zone producing (Upper or Lower) UPPER	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE			PROD. ZONE TEMP.	REMARKS
		Upper Completion		Lower Completion		
		TBG	CSG	TBG		
0830 11-04-94	0.5 HOURS	131	624	1029	62	UNLOAD MED MIST
0900 11-04-94	1.0 HOURS	52	547	1030	72	
0930 11-04-94	1.5 HOURS	48	524	1032	74	UNLOAD HEAVY MIST
1000 11-04-94	2.0 HOURS	44	507	1034	76	
1030 11-04-94	2.5 HOURS	39	481	1034	76	
1100 11-04-94	3.0 HOURS	40	464	1034	76	

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

Gas: 627 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 1 0 1994 19____
New Mexico Oil Conservation Division

By Jimmy 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 (gas zones only) and gravity and GOR (oil zones only).