

STATE OF NEW MEXICO
ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

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

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Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Northwest Pipeline Corporation Lease San Juan 30-5 Unit Well No. #102
Location of Well: Unit K Sec. 34 Twp. 30N Rge. 5W County Rio Arriba

	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	Gallup (Not Tied In)	Gas	Flow	Annulus
Lower Completion	Dakota	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in July 01, 1986	Length of time shut-in 7 Days	SI press. psig Csg. 1910	Stabilized? (Yes or No) No
Lower Completion	Hour, date shut-in July 01, 1986	Length of time shut-in 7 Days	SI press. psig Tbg. 2063	Stabilized? (Yes or No) No

FLOW TEST NO. 1

Commenced at (hour, date)* July 08, 1986 10:55 a.m.				Zone producing (Upper or Lower): Lower	
TIME (hour, date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
07/08/86 11:10 am	15 Mins.	Csg. 1916	Tbg. 98	46 ⁰	Blew light mist after
11:25 am	30 Mins.	Csg. 1913	Tbg. 71	48 ⁰	30 minutes to end of test.
11:40 am	45 Mins.	Csg. 1912	Tbg. 64	51 ⁰	
11:55 am	1 Hr.	Csg. 1912	Tbg. 57	51 ⁰	
12:55 pm	2 Hrs.	Csg. 1912	Tbg. 39	51 ⁰	
1:55 pm	3 Hrs.	Csq. 1912	Tbg. 31	51 ⁰	Q = 544 MCF/D.

Production rate during test:

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): T.C. .750" Positive Choke

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in July 01, 1986	Length of time shut-in 14 Days	SI press. psig Csg. 1949	Stabilized? (Yes or No) No
Lower Completion	Hour, date shut-in July 08, 1986	Length of time shut-in 7 Days	SI press. psig Tbg. 2035	Stabilized? (Yes or No) No

(Continue on reverse side)

JUL 22 1986
CON. DIV.
DIST. 3

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

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FLOW TEST NO. 2

Commenced at (hour, date)** July 15, 1986 11:05 am					
		Zone producing (Upper or Lower):		Upper	
TIME (hour, date)	LAPSED TIME SINCE **	PRESSURE		PROD. ZONE TEMP.	REMARKS
		Upper Completion	Lower Completion		
07/15/86 11:20 am	15 Mins.	Csg. 300	Tbg. 2035	51 ⁰	This zone is currently non-
11:35 am	30 Mins.	Csg. 206	Tbg. 2035	55 ⁰	commercial. Well unloaded heavy
11:50 am	45 Mins.	Csg. 177	Tbg. 2035	58 ⁰	fog after 1 hour and 20 minutes
12:05 pm	1 Hr.	Csg. 159	Tbg. 2035	59 ⁰	and continued throughout test.
1:05 pm	2 Hrs.	Csg. 138	Tbg. 2035	59 ⁰	Zone is produced annular flow.
2:05 pm	3 Hrs.	Csg. 121	Tbg. 2035	59 ⁰	Q = 1681 MCF/D.

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD: Tested thru (Orifice or Meter): T.C. .750" Positive Choke

Remarks: _____ Dakota vented 68 MCF.

Gallup vented 210 MCF.

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

Approved _____ JUL 22 1986 _____ 19 _____
New Mexico Oil Conservation Division

By _____ Original Signed by CHARLES GHOLSON

Title _____ DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator _____ Northwest Pipeline Corporation

By _____ Sandra K. Liese
Title _____ Production Clerk

Date _____ July 21st, 1986

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 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 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 zone shall remain shut-in while 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: 3 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 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 Artec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Forms 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).