

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

API # 30-045-23586

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Revised 10/01/78

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator BURLINGTON RESOURCES OIL & GAS CO. Lease NORDHAUS Well No. 2A

Location of Well: Unit C Sect 11 Twp. 031N Rge. 009W 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	MESAVERDE	Gas	Flow	Tubing
Lower Completion	DAKOTA	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 7/18/97	Length of time shut-in 72 Hours	SI press. psig 261	Stabilized? (Yes or No)
Lower Completion	7/18/97	120 Hours	25	

FLOW TEST NO. 1

Commenced at (hour,date)*		7/21/97		Zone producing (Upper or Lower)	
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE	UPPER
		Upper Completion	Lower Completion	TEMP	REMARKS
7/22/97	96 Hours	245	25		Lower zone is non productive
7/23/97	120 Hours	234	24		

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

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

(Continue on reverse side)

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[illegible]

Oil: _____	BOPD based on _____	Bbls. in _____	Hours. _____	Grav. _____	GOR _____
Gas: _____					
MCFPD; Tested thru (Office or Meter): _____					
Remarks: _____					

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

Approved	JAN 05 1938	19	Operator	<i>William H. Jones, Inc.</i>
			By	<i>W. H. Jones</i>
			Title	<i>Operation Associate</i>
By	<i>Johnny Robinson</i>		Title	<i>Deputy Oil & Gas Inspector</i>
	New Mexico Oil Conservation Division		Date	

1. A packet 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 connected on all multiple completions within seven days (following recompletion and/or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing has 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 packet 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 packet leakage test shall commence when both zones of the dual completion are shut-in for pressures 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 if the case of a gas well, or for 24 hours in the case of an oil well. Note: If, on an initial packet 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.

7. Pressures for gas-zone 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 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 gauges 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 New Mexico Oil Conservation Division of Northwest New Mexico. Mexico League Test form Revised 10/10/78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only) except that the previously produced zone shall remain shut-in while the zone which was previously shut-in is produced.

1. A packer leakage test shall be commenced on each multiple completed well by the order authorizing the actual completion of the well, and annually thereafter as prescribed by the well owner within seven days after following recompletion and/or chemical or fluid-treatments, 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 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. Packer leakage test shall commence when both zones of the dual completion are shut-in for pressures 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 if 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.

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

deadweight pressures as required above being taken on the gas zone. 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 Arctic District Office of the New Mexico Oil Conservation Division of Northwest New Mexico Packer Leagues as the following temperatures (gas zones only) and gravity and GOR (oil zones only) as well as all deadweight pressures indicated above:

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 have previously shown unquestionable test data.

continuous recording pressure gauges: if a well is gas-oil or an oil-gas dual completion, the recording gauges shall be equipped on the oil zone only, with each test, with a deadweight pressure gauge. If it is a test in which the recording gauges are to be checked, the test shall be run once and the oil and gas zones shall be tested separately.

flow pattern). Other pressures may be taken as desired, or may be requested on wells approximately the midway point) and immediately prior to the conclusion of each test immediately prior to the flow period, at least one time during each flow period and at hourly intervals thereafter. Including one pressure measurement during each flow period, at fifteen minute intervals during the first hour of the test, and immediately prior to the 3 hours tests. Pressures for gas zone tests must be measured on each zone with a deadweight tester previously shut-in is produced.