

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Energy Reserves Group, Inc. Lease Jicarilla 35 No. 3

Operator Energy Resources  
Location B  
of Well: Unit 2 Sec. 24N Twp. Rge. 5W County Rio Arriba  
Type of Prod. Method of Prod. Prod. Medium  
(Ther. or Gas.)

of Well: Unit <u>4</u> Sec. <u>2</u> Twp. <u>24N</u> R. <u>3E</u>	Type of Prod.	Method of Prod.	Prod. Medium
Name of Reservoir or Pool	(Oil or Gas)	(Flow or Art. Lift)	(Tbg. or Csg.)

	Name of Reservoir or Pool	(Oil or Gas)	(Flow or Art. Lift)	(Log. or Csg.)
Upper Completion	Pictured Cliffs	Gas	Flow	Casing
Lower Completion	Chacra	Gas	Flow	Tubing

PRE FLOW SHUT-IN PRESSURE DATA

PRE-FLOW SHUT-IN PRESSURE DATA

Completion		Chacra	PRE-FLOW SHUT-IN PRESSURE DATA			
Upper	Hour, date		Length of	SI press.		Stabilized?
Compl	Shut-in	2-26-78	time shut-in	psig	184	(Yes or No) Yes
Lower	Hour, date		Length of	SI press.		Stabilized?
Compl	Shut-in	2-26-78	time shut-in	psig	282	(Yes or No) Yes

FLOW TEST NO. 1

FLOW TEST NO. 1

Commenced at (hour, date)*	2-26-78	Zone producing (Upper or Lower):

Commenced at (hour, date)*		Pressure		Prod. Zone Temp.	Remarks
Time (hour, date)	Lapsed time since*	Upper Compl.	Lower Compl.		
2-27-78	1 day	156	258		Both Zones S.I.
2-28-78	2 days	186	272		Both Zones S.I.
3-01-78	3 days	184	282		Both Zones S.I.
3-02-78	4 days	220	238		Chacra Opened.
3-03-78	5 days	238	232		Chacra Opened.

Production rate during test \_\_\_\_\_ Bbbs. in \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_  
Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_  
Gas: \_\_\_\_\_ MCFPD; Tested thru (Orifice or Meter): \_\_\_\_\_  
MID-TEST SHUT-IN PRESSURE DATA \_\_\_\_\_ Stabilized? \_\_\_\_\_

MID-TEST SHUT-IN PRESSURE DATA

Upper		Hour, date	Length of	SI press.	Stabilized?
Compl		Shut-in	time shut-in	psig	(Yes or No)
Lower		Hour, date	Length of	SI press.	Stabilized?
Compl		Shut-in	time shut-in	psig	(Yes or No)
FLOW TEST NO. 2					

FLOW TEST NO. 2

Compl	Shut-in	time shut-in	FLOW TEST NO. 2	Zone producing (Upper or Lower):
<p>_____ at (hour, date)**</p>				

[illegible]

Production rate during test \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_  
Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_  
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.

Operator Energy Reserves Group, Inc.

Approved: \_\_\_\_\_ 19\_\_\_\_  
New Mexico Oil Conservation Commission

By James S. Hines

Title \_\_\_\_\_

Operator Energy Reserves Group, Inc.

By Doranne Parker

Title Production Technician

Date March 16, 1978

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 Commission.

2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Commission 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.

Continuous pressure measurements shall be taken at 2-minute intervals immediately prior to the beginning of each flow period, at 2-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. Tests shall be filed with the Aztec District Office of the New Mexico Oil Conservation Commission on Northwest New Mexico Packer Leakage Test Form Revised 11-1-58, with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only). A pressure versus time curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test Form with all deadweight pressure points taken indicated thereon. For oil zones, the pressure curve should also indicate all key pressure changes which may be reflected by the recording gauge charts. These key pressure changes should also be tabulated on the front of the Packer Leakage Test Form.

