

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator J. Gregory Merrion Lease Edna Well No. 4
Location of Well: Unit H Sec. 7 Twp. 24N Rge. 6W County Rio Arriba

	Name of Reservoir or Pool	Type of Prod.	Method of Prod.	Prod. Medium
		(Oil or Gas)	(Flow or Art. Lift)	(Tbg. or Csg.)
Upper Completion	Ballard Pictured Cliffs	Gas	Flow	Csg.
Lower Completion	Devils Fork Gallup-Mesaverde	Oil	Pump	Tbg.

PRE-FLOW SHUT-IN PRESSURE DATA				
Upper Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	2-19-79	72 hours	0	Yes
Lower Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	2-19-79	72 hours	295	No

FLOW TEST NO. 1				
Commenced at (hour, date)*			2-22-79	
Zone producing (Upper or Lower):			Upper Lower:	
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.
		Upper Compl.	Lower Compl.	
2-20-79	24	0	210	
2-21-79	48	0	275	
2-22-79	72	0	295	
2-23-79	24	0	30	
2-24-79	48	0	30	

Production rate during test
Oil: 1.5 BOPD based on Bbls. in Hrs. Grav. GOR
Gas: 16 MCFPD; Tested thru (~~Orifice~~ Meter):

MID-TEST SHUT-IN PRESSURE DATA				
Upper Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

FLOW TEST NO. 2				
Commenced at (hour, date)**			Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.
		Upper Compl.	Lower Compl.	

Production rate during test
Oil: BOPD based on Bbls. in Hrs. Grav. GOR
Gas: MCFPD; Tested thru (Orifice or Meter):

REMARKS: Multiple casing completion, upper zone through 2-7/8" casing, lower zones through tubing inside 4-1/2" casing.

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

Approved: MAY 9 1979 19
New Mexico Oil Conservation Commission
By Frank S. Gandy
Title

Operator J. Gregory Merrion
By Steven L. Linn
Title Engineer
Date May 8, 1979

1. A packer leakage test shall be conducted on each completion, completed well within seven days after full completion of the well and initially thereafter as prescribed by the order authorizing the test. In addition, such tests shall also be conducted on all multiple completions within seven days following recompletion and on 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 14 days in the case of an oil well. Note: If, in 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 commenced even though the well was shut-in 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. The rates for pressure tests must be measured on each zone with a downhole pressure gauge at time intervals as follows: Flow 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 downweight 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 downweight pressures as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed on triplicate within 15 days after completion of the test. Tests shall be filed with the Antec District Office of the New Mexico Oil Conservation Commission on Northeast New Mexico Packer Leakage Test Form Formed 11-1-58, with all downweight 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 downweight pressure points taken indicated thereon. For oil zones, the pressure curve should also indicate all any pressure changes which may be reflected by the recording gauge charts. These any pressure changes should also be tabulated on the front of the Packer Leakage Test Form.

