

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator William C. Russell Lease Marron Well No. 45
Location of Well: Unit X Sec. 23 Twp. 27N Rge. 3W 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	<u>Chacra</u>	<u>Gas</u>	<u>Flow</u>	<u>Csg.</u>
Lower Completion	<u>Chacra</u>	<u>Gas</u>	<u>Flow</u>	<u>Tbg.</u>

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in	7-25	Length of time shut-in	72 Hrs.	SI press. psig	510	Stabilized? (Yes or No)	No
Lower Compl	Hour, date Shut-in	7-25	Length of time shut-in	72 Hrs.	SI press. psig	512	Stabilized? (Yes or No)	No

FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
7-27	40 Hrs.	460	504		
7-28	72 Hrs.	618	512		
7-29	96 Hrs.	620	362		
7-30	120 Hrs.	620	386		

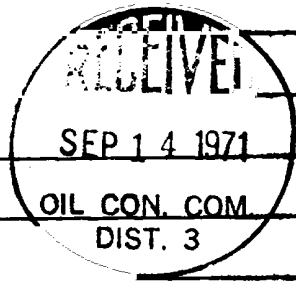
Production rate during test
Oil: _____ BOPD based on _____ Bbls. in _____ Hrs. _____ Grav. _____ GOR _____
Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

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.	Remarks
		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: _____

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

Approved: 9-14 1971
New Mexico Oil Conservation Commission
By Arthur J. Kendrick
Title PETROLEUM ENGINEER DIST. NO. 3
Operator William C. Russell
By GeoElectric, Inc.
Title Agent
Date B.H.K. 9-14-71

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 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.

7. Pressures or gas-flow test shall be recorded on each zone with a deadweight pressure gauge at least 15-minute intervals during the first hour, and thereafter at fifteen-minute intervals after including one pressure reading immediately after the conclusion of each flow period, and one immediately after each flow period (at approximately the midway point) and thereafter only if the conclusion of each flow period. (Gauge pressures may be taken as desired, or may be requested by the Commission, at any time during the test.)

8. 24-hour or zone tests shall be conducted throughout the test. Pressures shall be continuously recorded on each zone with the deadweight pressure gauges, the accuracy of which shall be checked at the beginning and at the end of each test, with a deadweight pressure gauge. If a well is a gas-oil or oil-gas dual completion, the recording gauge shall be supplied with a deadweight pressure gauge as required above being tested on the gas zone.

9. The result of the above-described tests shall be filed in triplicate within 15 days after completion of a test. Tests shall be filed with the Aztec District Office of the New Mexico Department of Conservation at Northwest New Mexico Packer Leakage Test Form Revised 11-1-64 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity (oil zones only) of the zone in flow. A time curve for each zone of each well shall be constructed on the reverse side of the Packer Leakage Test Form, deadweight pressure points taken indicate thereon. For oil wells, 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 indicated on the front of the Packer Leakage Test Form.

