

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Northwest Production Corporation

Well

No. 16

Operator Box 1796, El Paso, Texas 79949

Lease JICARILIA 126 S

Location

of Well: Unit M Sec. 2 Twp. 24N Rge. 4W 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	OIL	ART LIFT	TBG
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Lower Completion	DAKOTA	OIL	ART LIFT	TBG
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PRE-FLow SHUT-IN TEST DATA

Upper Compl	Hour, date 9:00 A.M. Shut-in 7/26/71	Length of time shut-in 3 DAYS	SI press. psig 305	Stabilized? (Yes or No) NO
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Lower Compl	Hour, date 9:00 A.M. Shut-in 7/26/71	Length of time shut-in 3 DAYS	SI press. psig -0-	Stabilized? (Yes or No) YES
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FLOW TEST NO. 1

Commenced at (hour, date) 10:45 A.M. 7/29/71 Zone producing (Upper or Lower):

Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
2:00 P.M. 7/29/71	3 1/2 hrs	30	-0-	82°	Dakota zone shut in - plugged with paraffin
9:00 A.M. 7/30/71	1 day	30	-0-	74°	

Production rate during test

Oil: 13.98 BOPD based on 14 Bbls. in 24 Hrs. Grav. 38.6 GOR 16.11

Gas: 22.52 MCFPD; Tested thru (Orifice or Meter): Meter

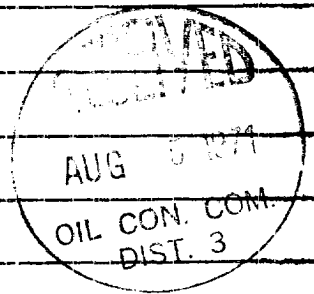
PRE-TEST SHUT-IN PRESSURE DATA

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: 8-5 1971  
New Mexico Oil Conservation Commission

By: [Signature]  
Title: PETROLEUM ENGINEER DIST. NO. 3

Operator: NORTHWEST PRODUCTION CORPORATION

By: C. E. Werner, Manager  
Title: Production Operations

Date: AUG 4 1971

# 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 for gas-zone tests shall be measured on each zone with a deadweight pressure gauge at time intervals as follows: 1-hour tests immediately prior to the beginning of each flow period and at 1-hour intervals during the first flow period, and at 1-hour 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 once 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, but may be recorded on wells which have been tested previously and no test data.

24-hour oil zone tests: All pressures on known leak wells shall be continuously measured and recorded on pressure gauges. The accuracy of which must be checked at least once during 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 installed on the oil zone. In the case of gas-oil wells as required above being taken on the gas zone.

8. The results of the above-described tests shall be filed on separate sheets within 15 days after completion of the test. The results shall be filed with the Aztec District Office of the New Mexico Geological Survey, and with the Northwest New Mexico Packer Leakage Test Unit. The results shall include: deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only). A pressure-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-time curve shall 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.

