Well

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Location of Well: Unit A Sec. 15 Twp. 32 North Rge. 12 West County	No#3
	San Juan
Type of Prod. Method of Prod.	Prod. Medium
Name of Reservoir or Pool (Oil or Gas) (Flow or Art. Lift) (Tupper	Tbg. or Csg.)
Completion Blanco Mesa Verde Gas Flow Lower	Casing
Completion Basin Dakota Gas Flow	Tubing
PRE-FLOW SHUT-IN PRESSURE DATA Upper Hour, date Length of SI press. St	h = 1 = 2 1 = = 2 0
h 21 01 1 7 10 70	tabiliz ed? Yes or No)
Toward Hours date	tabilized?
Compl Shut-in 7-18-76 time shut-in 72 Hours psig 548 (Y	Yes or No)
Commenced at (hour, date)* 7-21-76 Zone producing (MMMAN)	or Lower):
Time Lapsed time Pressure Prod. Zone	
(hour, date) since* Upper Compl. Lower Compl. Temp. Remark	KS
7-19-76 518 543	
7-20-76 525 548	
7-21-76 530 548	
7-22-76 534 328	
7-23-76 537 347	
Production rate during test	
Oil: BOPD based on Bbls. in Hrs. Grav. Gas: MCFPD; Tested thru (Orifice or Meter):	GOR
MID-TEST SHUT-IN PRESSURE DATA	
	cabilized?
	(es or No)
power moder, date Length of 15t press. 15t	abilized?
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Compl Shut-in time shut-in psig (Y	(es or No)
Compl Shut-in time shut-in psig (Y FLOW TEST NO. 2 Commenced at (hour, date)** Time Lapsed time Pressure Prod. Zone	(es or No)
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Compl Shut-in time shut-in psig (Y FLOW TEST NO. 2 Commenced at (hour, date)** Time Lapsed time Pressure Prod. Zone hour, date) Since ** Upper Compl. Lower Compl. Temp. Remark Production rate during test Oil: BOPD based on Bbls. in Hrs. Gray.	GOR
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- 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 small 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 pauser or the tubing have been disturbed. Tests shall also be taken at any line that communication is suspected or when requested by the Communication.
- 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 lee test is to be commenced. Offset operators shall also be so notified.
- 3. The packer leakage test shall commence when both zones of the during completion are shuthin for pressure stabilization. Both zones shuthin mail shuthin until the well-head pressure is each has stabilized, product however, that they need not remain shuthin more than seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at me normal rate of production while the other zone reaches and the succession test shall be continued for seven days in the case of a gas well for 24 hours in the case of an oil well. Note: if one an initial jacket teatage test, a gas well is being flowed to the atmosphere due to unitial of a pipeline connection the flow period shall be named hours.
- Pollowing completion of Flow Test No. 1, the west shall again as state in, in accordance with Paragraph 3 bove.
- 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 included as or Flow Test No. 1 except that the previously produced word south formal, shut-in wille the zone which was previously shut-in sproduced.

- Leaunage research (and at time intervals as follows: 3-hour tasks, immediately order to the beginning of each flow-period, at fifteen-aimed intervals during the first hour thereof, and at hourly intervals thereafter, including one pressure measurement immediately prior to the conclusion of each flow period, at least one time during each flow period, at least one time during each flow period (at approximately the minway point) and immediately prior to the conclusion of each flow period. Other pressures may be taken as desired, of may be requested on wells which have previously shown questionable test data.
- 24-hour oil zone tests; all pressures, throughout the entire test, while be continuously measured and recorded with recording pressure gardes, the accuracy of which must be checked at least twice, once at the segamming and once at the end of each test, with a deadweight pressure required in a general not not legal dual completion. The recording stage, whall be required on the uit zone only, with deadweight pressure in acquired above using taken on the gas zone.
- No The results of the above-described tests shall be filed in triplicate the file of the described tests shall be filed in triplicate the file in described tests and the file with the file of the test. Tests shall be file with the file file of the New Mexico dil conservation doministic of Northwest for Mexico Parker Leakage Test Form Revised II-I-38, with all deadweight pressures indicated thereon as well as the flowing temperatures file tone souly) and gravity and GOR (oil zones only). A pressure versus has come tone as higher test shall be constructed on the reverse side of the Parker Leakage Test Form with all deadweight pressure points (ween insteaded thereon. For oil zones, the pressure curve should also indicate all key pressure changes which may be reflected by the recording pange change. These key pressure changes should also be tabulated on the contract of Parker Leakage Test form.

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MORTHWEST WEW MEXICO PACKER LEAKAGE TEST INSTRUCTION

- 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 shutin, 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—some tests must be measured on each nome with a decadweight pressure gauge at time intervals as follows: 3-hour 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
- 24-hour oil some 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 some 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.

