

Well
No. #1-A

Upper Completion	Blanco Mesa Verde	Gas	Flow	Tubing
Lower Completion	Basin Dakota	Gas	Flow	Tubing

Upper Compl	Hour, date 11:00 AM Shut-in 1-2-79	Length of time shut-in 168 hrs.	SI press. tbg. 929 psig csg. 928	Stabilized? (Yes or No)
Lower Compl	Hour, date 11:00 AM Shut-in 1-2-79	Length of time shut-in 168 hrs.	SI press. tbg. 1569 psig	Stabilized? (Yes or No)

Commenced at (hour, date)*10:00 AM, 1-9-79				Zone producing (XXXXXX Lower): Lower	
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
10:15 AM 1-9-79	15 Min.	Tbg. 929 Csg. 927	Tbg. 250		
10:30 AM 1-9-79	30 Min.	Tbg. 928 Csg. 926	Tbg. 115		
10:45 AM 1-9-79	45 Min.	Tbg. 928 Csg. 926	Tbg. 72		
11:00 AM 1-9-79	60 Min.	Tbg. 927 Csg. 927	Tbg. 68		
12:00 Noon 1-9-79	120 Min.	Tbg. 927 Csg. 926	Tbg. 62		
1:00 PM 1-9-79	180 Min.	Tbg. 927 Csg. 926	Tbg. 55		

MID-TEST SHUT-IN PRESSURE DATA

Upper	Hour, date	11:00 AM	Length of	SI press.	tbg.	930	Stabilized?
Compl	Shut-in	1-2-79	time shut-in	336 Hrs.	psig	csg. 928	(Yes or No)
Lower	Hour, date	1:00 PM	Length of	SI press.			Stabilized?
Compl	Shut-in	1-9-79	time shut-in	168 Hrs.	psig	tbg. 1517	(Yes or No)

Commenced at (hour, date)**		9:30 AM 1-16-79		Zone producing (Upper or Lower): Upper	
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
9:45 AM 1-16-79	15 Min.	Tbg. 167			
		Csg. 861	Tbg. 1517		
10:00 AM 1-16-79	30 Min.	Tbg. 165			
		Csg. 816	Tbg. 1519		
10:15 AM 1-16-79	45 Min.	Tbg. 148			
		Csg. 784	Tbg. 1519		
10:30 AM 1-16-79	60 Min.	Tbg. 135			
		Csg. 759	Tbg. 1520		
11:30 AM 1-16-79	120 Min.	Tbg. 128			
		Csg. 701	Tbg. 1520		
12:30 AM 1-16-79	180 Min.	Tbg. 77			
		Csg. 694	Tbg. 1520		

REMARKS:

Date 1-18-79

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 required 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. Other operators shall also be 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; however, 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: In an initial packer leakage test, a gas well is being flowed at 1000 atmosphere due to the use 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.

$$\theta = \frac{L^2}{4 \cdot \text{GOR} \cdot \text{GOR}}$$

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7. The following pressure tests must be measured on each zone: (a) deadweight pressure gauge at the intervals as follows: 3-hour tests: immediately prior to the beginning of each flow-period, at 15' ten-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.
8. 24-hour oil zone tests: all pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauge, 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 pressure measurements being taken on the gas zone.
9. 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 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 (oil 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 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.

