

NEW MEXICO
OIL AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION
SANTA FE, NEW MEXICO

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Caulkins Oil Company Lease Breech "B" Well No. 172-E
Location
of Well: Unit M Sec. 7 Twp. 26 North Rge. 6 West 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	Mesa Verde	Gas	Flow	Tubing
Lower Completion	Dakota	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

FLOW TEST NO. 1

Commenced at (hour, date)*		Shut-in 11-25-83		Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
11-26-83	24 Hours	974	1412		Both Zone Shut-in
11-27-83	48 Hours	1009	1412		Both Zones Shut-in
11-28-83	72 Hours	1012	1445		Both Zones Shut-in
11-29-83	96 Hours	1012	621		Mesa Verde Shut-in Dakota Flow
11-30-83	120 Hours	1013	536		Mesa Verde Shut-in Dakota Flow

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 Completion	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	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.		

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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: DEC 29- 1983
Oil Conservation Division
Original Signed by CHARLES GHOLSONOperator Caulkins Oil Company
By Charles Gholson
Title SuperintendentTitle DEPUTY OIL & GAS INSPECTOR, DIST. #3Date 12-1-83

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. The Packer Leakage Test shall be commenced on each multiply completed well immediately after initial completion of the well, and annually thereafter, until the order authorizing the multiple completion. The test shall be commenced on all multiple completions within 30 days of the completion of the well and of the initial or fracture treatment, and shall be continued until the well is shut-in. The test shall also be taken at any time when requested by the Division.

2. The test shall be ordered by the commandant of any packer leakage test, and shall be reported by the Division in writing at the exact time the test is completed. Effect operators shall also be so notified.

3. The test shall be commenced when both zones of the dual completion are producing at pressure stabilization. Both zones shall be shut-in and the well shall be closed in more than seven days.

4. The test shall be run for 10% of the dual completion shall be produced at a rate of 10% of the dual completion while the other zone remains shut-in. The test shall be continued for seven days in the case of a gas well and for 10 days in the case of an oil well. When 10% of an initial packer leakage test is completed, the well shall be shut-in and the test shall be continued for seven days. The flow period shall be three days.

5. The test shall be run for flow test No. 1, the well shall again be shut-in and the test shall be continued for seven days.

6. The test shall be conducted even though no leak was indicated. The test shall be continued for flow test No. 2, it is to be the same as the test run for flow test No. 1, and the previously produced zone shall be shut-in and the test shall be continued for seven days.

7. Pressures for gas-zone tests must be measured on each zone with a leadweight 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 four hours, and at hourly intervals thereafter, including the 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 fits.

8. 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 leadweight pressure gauge. If a well is a gas-oil or an oil-gas dual zone, then the recording gauge shall be required on the oil zone only, with shut-in pressures as required above 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 Oil Conservation Division in Northwest New Mexico Packer Leakage Test Form Revised 10-1-75, with all shut-in pressures indicated thereon as well as the flowing temperatures of gas zones only and gravity and 30% 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 leadweight 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.

