

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Caulkins Oil Company Lease Breach "A" Well No. 229
Location of Well: Unit D Sec. 17 Twp. 26 North Rge. 6 West County Rio Arriba
Type of Prod. Gas Method of Prod. Flow Prod. Medium Tubing
Name of Reservoir or Pool Mesa Verde (Oil or Gas) Gas (Flow or Art. Lift) Flow (Tbg. or Csg.) Tubing

Upper Completion	<u>Mesa Verde</u>	<u>Gas</u>	<u>Flow</u>	<u>Tubing</u>
Lower Completion	<u>Dakota</u>	<u>Gas</u>	<u>Flow</u>	<u>Tubing</u>

PRE-FLOW 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. 1

Commenced at (hour, date)* <u>8:15 AM 9-19-76</u>		Zone producing (Upper or Lower):			
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
<u>8:15 AM 9-20-76</u>	<u>24 hrs.</u>	<u>419</u>	<u>458</u>		<u>Both zones shut in</u>
<u>8:15 AM 9-21-76</u>	<u>48 hrs.</u>	<u>420</u>	<u>480</u>		<u>Ditto</u>
<u>8:15 AM 9-22-76</u>	<u>72 hrs.</u>	<u>425</u>	<u>494</u>		<u>MV shut in-Dakota opened</u>
<u>8:15 AM 9-23-76</u>	<u>24 hrs</u>	<u>431</u>	<u>255</u>		<u>Dakota Flowing</u>
<u>8:15 AM 9-24-76</u>	<u>48 hrs.</u>	<u>434</u>	<u>260</u>		<u>Ditto</u>

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: _____ 19____
New Mexico Oil Conservation Commission

By H. E. Mayfield

Title _____

Operator Caulkins Oil Company

By Charles C. Cargill

Title Superintendent

Date 9-29-76

1. A packer leakage test shall be commenced on each multiply completed well within seven days after its completion or the well, and immediately thereafter as prescribed by the order authorizing the well's completion. Such tests shall also be commenced on all multiply completed wells within seven days following recompletion and on thermal 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 of the date and time the test is to be commenced. Other regulations shall be as prescribed.
3. The packer leakage test shall commence when both zones of the well completion are shut-in for pressure stabilization. Both zones shall be main shut-in until the wellhead pressure on each has stabilized; however, if they need not remain shut-in more than seven days.
4. For flow test No. 1, one zone of the well 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 oil wells, and for 24 hours in the case of gas wells. During the test, the operator shall leakage test a gas well as being a well with a gas zone and the test shall be a pipeline completion the test shall be a gas well.
5. Following completion of flow test No. 1, the well shall be shut-in in a main shut-in position.
6. Flow test No. 2 shall be conducted on a well completion which has been shut-in during flow test No. 1. Pressure shall be stabilized on both zones as for flow test No. 1. The test shall be conducted on the gas zone only as for flow test No. 1. The zone shall be shut-in for pressure stabilization.

At least one test shall be measured on each zone of the well completion 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 termination 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.

24-hour oil zone tests: all pressures, throughout the entire test shall be continuously measured and recorded with recording pressure gauges. The accuracy of each 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 gauges shall be required on the oil zone only, with deadweight gauges substituted when being taken on the gas zone.

The results of the above-described tests shall be filed in triplicate and filed after completion of the test. Tests shall be filed with the New Mexico Department of Mines and Metallurgy, New Mexico Oil Conservation Commission at Fort Worth, New Mexico. Packer Leakage Test Form Revised 11-1-44, 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 curves indicated thereon. For oil zones, the pressure curve should also include all key pressure changes and may be defined on the Packer Leakage Test Form. These key pressure changes should also be tabulated on the Packer Leakage Test Form.

