

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator Merrion Oil and Gas Corporation Lease Canada Mesa Well No. 4E
Location of Well: Unit F Sec. 10 Twp. 24N Rge. 6W 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 <u>Devils Fork Gallup</u>	<u>Oil</u>	<u>Flow</u>	<u>tubing</u>
Lower Completion <u>Basin Dakota</u>	<u>Gas</u>	<u>Flow</u>	<u>casing</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)
	<u>12/27</u>	<u>40 days</u>	<u>780</u>	<u>yes</u>
Lower Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	<u>12/27</u>	<u>40 days</u>	<u>1680</u>	<u>yes</u>

FLOW TEST NO. 1

Commenced at (hour, date)**		11:00 AM 2/6/86		Zone producing (Upper Or Lower): <u>Lower</u>	
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
Upper Compl.	Lower Compl.				
11:15 AM	15 min	780	1570		
11:30 AM	30 min	780	1490		Bringing fluid after 30 minutes
11:45 AM	45 min	780	1440		
12:00 PM	1 hr	780	1400		
1:00 PM	2 hr	780	1290		
2:00 PM	3 hr	780	1230		

Production rate during test

Oil: 13 BOPD based on 1.68 Bbls. in 3 Hrs. Grav. 61.3 GOR 70615
Gas: 918 MCFPD; Tested thru (Orifice or Meter): 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)
	<u>12/27</u>	<u>40 days</u>	<u>780</u>	<u>yes</u>
Lower Compl	Hour, date Shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	<u>2:00 PM 2/6/86</u>	<u>30 min</u>	<u>1480</u>	<u>yes</u>

FLOW TEST NO. 2

Commenced at (hour, date)**		2:30 PM 2/6/86		Zone producing (Upper or Lower): <u>Upper</u>	
Time (hour, date)	Lapsed time since **	Pressure		Prod. Zone Temp.	Remarks
Upper Compl.	Lower Compl.				
2:45 PM	15 min	770	1515		
3:00 PM	30 min	750	1530		
3:15 PM	45 min	730	1540		
3:30 PM	1 hr	725	1550		Bring fluid
4:30 PM	2 hr	595	1580		
5:30 PM	3 hr	540	1585		

Production rate during test

Oil: 64 BOPD based on 8 Bbls. in 3 Hrs. Grav. 41.8 GOR 10438
Gas: 668 MCFPD; Tested thru (Orifice or Meter): Meter

REMARKS: No communication between zones.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved: FEB 10 1986
Oil Conservation Division
Original Signed by CHARLES CHOLSON

By _____

Title DEPUTY OIL & GAS INSPECTOR, DIST. #3

Operator Merrion Oil and Gas Corporation

By Timothy Merilatt

Title Timothy Merilatt, Measurement Technician

Date February 6, 1986

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7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 1 hour prior to immediately prior to the beginning of each flow period, at 15-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. Daily tests: immediately prior to the beginning of each flow period, at least one time during each flow period (approximately 15 minute counts) 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 significant test data.

24-hour oil zone tracer all procedures, 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 duplicate pressure gauge. As well as a gas-oil or oil-gas bal. cell, the recording gauge shall be required on the oil zone only, with a duplicate pressure 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 U.S. Conservation Service in Northwest New Mexico Packer Leakage Test Form Revised 10-1-78, with all deadweight pressures indicated thereon as well as the flowing temperature (gas only) and gravity and GOR (oil zones only). A pressure curve time graph for each zone of each test shall be constructed on the graphs and the Packer Leakage Test Form with all deadweight pressure points indicated thereon. For oil zones, the pressure curve should also be indicated. All key pressure changes which may be reflected by the recording tape charts. These key pressure changes should also be indicated on the graphs of the Packer Leakage Test Form.

