

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator DUGAN PRODUCTION CORP Lease JICARILLA E Well No. 1  
Location of Well: Unit M Sec. 21 Twp. 26N Rge. 3W 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>TAPACITO PICTURED CLIFFS</u>	<u>GAS</u>	<u>FLOW</u>	<u>TUBING</u>
Lower Completion <u>BLANCO MESA VERDE</u>	<u>GAS</u>	<u>FLOW</u>	<u>TBG.</u>

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date Shut-in <u>5-7-76</u>	Length of time shut-in <u>5 DAYS</u>	SI press. psig <u>340</u>	Stabilized? (Yes or No) <u>NO</u>
Lower Compl	Hour, date Shut-in <u>5-7-76</u>	Length of time shut-in <u>3 DAYS</u>	SI press. psig <u>339</u>	Stabilized? (Yes or No) <u>NO</u>

FLOW TEST NO. 1

Commenced at (hour, date)*				Zone producing (Upper or Lower):	
Time (hour, date)	Lapsed time since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
<u>5-7-76</u>		<u>181</u>	<u>181</u>		<u>BOTH ZONES FLOWING</u>
<u>5-10-76</u>	<u>3 DAYS</u>	<u>339</u> <sup>SI</sup>	<u>340</u> <sup>SI</sup>		<u>BOTH ZONES SI 3 DAYS</u>
<u>5-11-76</u>		<u>191</u> <sup>Flow</sup>	<u>271</u> <sup>SI</sup>		<u>PC. Flow - MV SI</u>
<u>5-12-76</u>		<u>206</u> <sup>Flow</sup>	<u>290</u> <sup>SI</sup>		<u>✓ ✓ ✓ ✓</u>

Production rate during test

Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_  
Gas: 80 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.

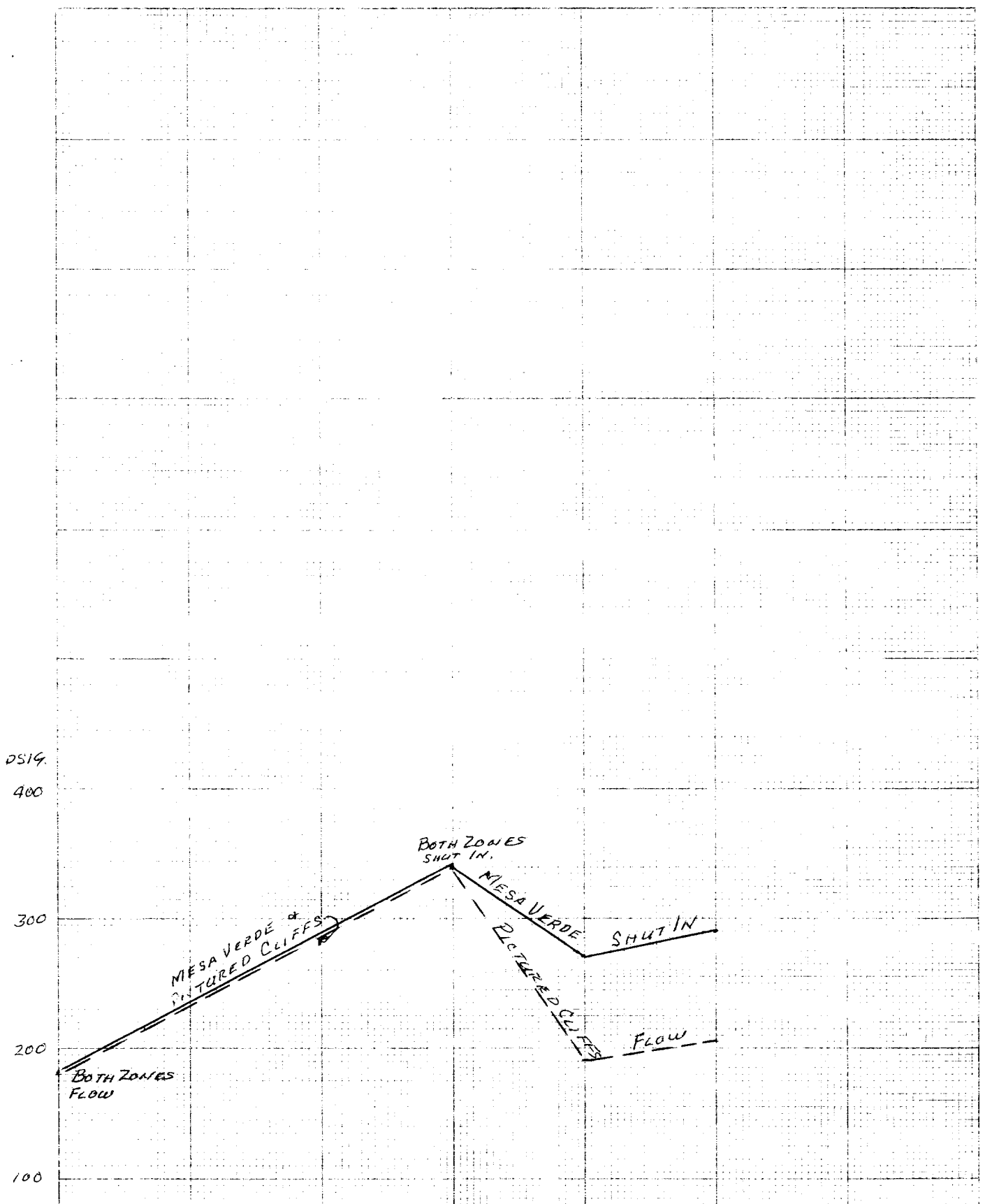
Approved: \_\_\_\_\_ 19\_\_\_\_\_  
New Mexico Oil Conservation Commission  
By E. E. Mahaffey  
Title Engineer District #3  
Operator DUGAN  
By ERNIE CURRENT  
Title SWITCHER  
Date 5-15-76

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 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 reasons why the test is to be commenced. Offset operations shall also be notified.
3. The packer leakage test shall commence when both zones of a well are completion are shut-in for pressure stabilization. Both zones shall be main shut-in until the well-head pressure in each has stabilized, and in 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 an oil well, and for 24 hours in the case of an oil well. Note: If, 60 or 90 minutes after leakage test, a gas well is being flowed to the atmosphere, the test is that of a pipeline connection the flow period shall be longer.
5. Following completion of Flow Test No. 1, the well shall be shut-in, in accordance with Paragraph 3 above.
6. Flow Test No. 2 shall be conducted when the zone which was shut-in during Flow Test No. 1, Procedure for Flow Test No. 1, is produced, as for Flow Test No. 1, except that the pressure stabilization shall be main shut-in while the zone which was previously shut-in is produced.

Pressure measurements must be measured on each zone with accuracy of 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 data.

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 pressures as indicated above being taken on the gas zone.

7. The results of the above-described tests shall be filed in triplicate within 30 days after completion of the test. Tests shall be filed with the District Office of the New Mexico Oil Conservation Commission and the 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 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. These key pressure changes should also be tabulated on the reverse of the Packer Leakage Test Form.





## OIL CONSERVATION COMMISSION

STATE OF NEW MEXICO  
1000 RIO BRAZOS RD. - AZTEC

87410

DIRECTOR  
JOE D. RAMEY

LAND COMMISSIONER  
PHIL R. LUCERO  
May 20, 1976



STATE GEOLOGIST  
EMERY C. ARNOLD

Dugan Production Corp.  
P. O. Box 234  
Farmington, New Mexico 87401

Re: Jicarilla E # 1, M-21-26N-3W

Dear Mr. Dugan:

The packer-leakage test of May 7, 1976, for the subject well indicates communication between the producible zones.

You are hereby directed to take immediate action to cause the well to comply with Rule 112 A, Section VI and the order authorizing the multiple completion.

If there are questions please contact us.

Yours very truly,

*Norman E. Maxwell Jr.*  
Norman E. Maxwell, Jr.  
Engineer, District # 3

NEM:mm

cc: Oil Conservation Commission  
Santa Fe, New Mexico 87501