



NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator El Paso Natural Gas Products Company Lease Frontier (GD) "B" Well No. 1
Location
of Well: Unit P Sec. 9 Twp. 27 North Rge. 11 West County San Juan
Type of Prod. Method of Prod. Prod. Medium
Name of Reservoir or Pool (Oil or Gas) (Flow or Art. Lift) (Tbg. or Csg.)

Upper Completion	<u>Kutz Gallup</u>	<u>Oil</u>	<u>Flow</u>	<u>Tbg.</u>
Lower Completion	<u>Basin Dakota</u>	<u>Gas</u>	<u>Flow</u>	<u>Tbg.</u>

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Compl	Hour, date	<u>9:00 A.M.</u>	Length of time shut-in	<u>72 Hrs.</u>	SI press. Csg. <u>560</u> Tbg. <u>560</u>	Stabilized? (Yes or No) <u>No</u>
Lower Compl	Hour, date	<u>9:00 A.M.</u>	Length of time shut-in	<u>72 Hrs.</u>	SI press. Csg. <u>560</u> Tbg. <u>580</u>	Stabilized? (Yes or No) <u>Yes</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>7-15-65</u>		Csg. <u>560</u>				
<u>8:45 A.M.</u>	<u>Start</u>	Tbg. <u>560</u>	<u>580</u>	<u>Tbg.</u>	<u>--</u>	<u>Flowed Gallup</u>
<u>9:15 A.M.</u>	<u>30 Min.</u>	Csg. <u>500</u>			<u>--</u>	
		Tbg. <u>500</u>	<u>570</u>	<u>Tbg.</u>	<u>--</u>	
<u>9:45 A.M.</u>	<u>60 Min.</u>	Csg. <u>370</u>			<u>--</u>	
		Tbg. <u>335</u>	<u>565</u>	<u>Tbg.</u>	<u>--</u>	
<u>10:45 A.M.</u>	<u>120 Min.</u>	Csg. <u>365</u>			<u>--</u>	
		Tbg. <u>330</u>	<u>560</u>	<u>Tbg.</u>	<u>--</u>	
<u>11:45 A.M.</u>	<u>180 Min.</u>	Csg. <u>285</u>			<u>--</u>	
		Tbg. <u>255</u>	<u>560</u>	<u>Tbg.</u>	<u>--</u>	
<u>7-16-65</u>		Csg. <u>190</u>				
<u>8:45 A.M.</u>	<u>24 Hrs.</u>	Tbg. <u>130</u>	<u>560</u>	<u>Tbg.</u>	<u>--</u>	

Production rate during test

Oil: 1 BOPD based on 1 Bbls. in 24 Hrs. Grav. 36.1 GOR 10,000/1
Gas: 10 MCFPD; Tested thru (Orifice or Meter): Latest GOR

MID-TEST SHUT-IN PRESSURE DATA

Upper Compl	Hour, date	<u>8:40 A.M.</u>	Length of time shut-in	<u>72 Hrs.</u>	SI press. Csg. <u>560</u> Tbg. <u>560</u>	Stabilized? (Yes or No) <u>No</u>
Lower Compl	Hour, date	<u>9:00 A.M.</u>	Length of time shut-in	<u>168 Hrs.</u>	SI press. Csg. <u>560</u> Tbg. <u>580</u>	Stabilized? (Yes or No) <u>Yes</u>

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.			
<u>7-19-65</u>		Csg. <u>560</u>				
<u>8:40 A.M.</u>	<u>Start</u>	Tbg. <u>560</u>	<u>580</u>	<u>Tbg.</u>	<u>95</u>	<u>Opened Dakota to Flow</u>
<u>9:10 A.M.</u>	<u>30 Min.</u>	Csg. <u>560</u>			<u>95</u>	
		Tbg. <u>560</u>	<u>550</u>	<u>Tbg.</u>	<u>95</u>	
<u>9:40 A.M.</u>	<u>60 Min.</u>	Csg. <u>560</u>			<u>95</u>	
		Tbg. <u>560</u>	<u>550</u>	<u>Tbg.</u>	<u>95</u>	
<u>10:40 A.M.</u>	<u>120 Min.</u>	Csg. <u>560</u>			<u>95</u>	
		Tbg. <u>560</u>	<u>550</u>	<u>Tbg.</u>	<u>95</u>	
<u>11:40 A.M.</u>	<u>180 Min.</u>	Csg. <u>560</u>			<u>95</u>	
		Tbg. <u>560</u>	<u>550</u>	<u>Tbg.</u>	<u>95</u>	
<u>7-20-65</u>		Csg. <u>540</u>				
<u>8:40 A.M.</u>	<u>24 Hrs.</u>	Tbg. <u>540</u>	<u>445</u>	<u>Tbg.</u>	<u>95</u>	

Production rate during test

Oil: None BOPD based on None Bbls. in 24 Hrs. Grav. GOR
Gas: 183 MCFPD; Tested thru (Orifice or Meter): Meter

REMARKS: Results of test indicate that packer is effecting complete segregation.

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

Approved: JUL 30 1965 19
New Mexico Oil Conservation Commission
By A. R. Hendrick
Title PETROLEUM ENGINEER DIST. NO. 3

Operator El Paso Natural Gas Products Company
By Original Signed EWELL N. WALSH
Ewell N. Walsh
Title Division Petroleum Engineer
Date July 28, 1965



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 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 exact time the test is to be commenced. Offset operators shall also be so notified.
3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided 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 a gas well and for 24 hours in the case of an oil well. Note: If, on an initial packer

7. Pressures for gas-zone tests must be measured on each zone with a deadweight 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 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 deadweight pressure gauge. If a well is a gas-oil well, dual completion, the recording gauge shall be required on the oil zone only, with deadweight pressures 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 Astec District Office of the New Mexico Oil Conservation Commission on Northwest New Mexico Packer Leakage Test Form Revised 11-1-58, with all pressures indicated thereon as well as the flowing time.

