

NEW MEXICO OIL CONSERVATION COMMISSION
SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator Gulf Oil Corporation			Lease Federal Mills			Well No. 1	
Location of Well	Unit C	Sec 11	Twp 9-S	Rge 36-E	County Lee		
Name of Reservoir or Pool			Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size	
Upper Compl	Allison Abo		Oil	Kobe Pump	Casing	2" WO	
Lower Compl	Allison Penn		Oil	Kobe Pump	Tubing	1 1/4" WO	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 11:00 AM, 3-15-65

Well opened at (hour, date): <u>11:00 AM, 3-16-65</u>	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		X
Pressure at beginning of test.....	100	5
Stabilized? (Yes or No).....	Yes	Yes
Maximum pressure during test.....	110	25
Minimum pressure during test.....	100	15
Pressure at conclusion of test.....	110	25
Pressure change during test (Maximum minus Minimum).....	10	10
Was pressure change an increase or a decrease?.....	Increase	Increase
Well closed at (hour, date): <u>11:00 AM, 3-17-65</u>	Total Time On Production 24 hours	
Oil Production	Gas Production	
During Test: <u>14</u> bbls; Grav. <u>44.1</u>	During Test <u>9.66</u>	MCF; GOR 600

Remarks Lower zone also produced 11 barrels of water.

FLOW TEST NO. 2

Well opened at (hour, date): <u>11:00 AM, 3-18-65</u>	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....	X	
Pressure at beginning of test.....	130	90
Stabilized? (Yes or No).....	Yes	Yes
Maximum pressure during test.....	90	165
Minimum pressure during test.....	35	90
Pressure at conclusion of test.....	75	135
Pressure change during test (Maximum minus Minimum).....	55	75
Was pressure change an increase or a decrease?.....	Increase	Increase
Well closed at (hour, date): <u>11:00 AM, 3-19-65</u>	Total time on Production 24 hours	
Oil Production	Gas Production	
During Test: <u>30</u> bbls; Grav. <u>42.2</u>	During Test <u>24.3</u>	MCF; GOR 810

Remarks Upper zone also produced 23 barrels of water.

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

Operator **GULF OIL CORPORATION**
By **E. Donaher**
Title **Area Engineer**
Date **3-25-65**

1. A packer leakage test shall be conducted on each well within seven days after actual completion of the well and annually thereafter as prescribed by the order setting the multiple completion flow test. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical stimulation treatments and whenever remedial work has been done on the well or the packer or the tubing has been disturbed. Tests shall be conducted if a well is shut-in for communication is suspected or when the operator is planning to shut-in the well.

2. At least 72 hours prior to the test, the operator shall notify the District Office of the packer leakage test and the operator shall notify the District Office of the results of the test is to be commenced. Offset of the test shall be as follows:

3. The packer leakage test shall commence when the well is shut-in. The well shall be shut-in for pressure stabilization for a minimum of 24 hours prior to the test. The well shall be shut-in until the well-head pressure has stabilized for a minimum of two hours thereafter, providing however that the well is not shut-in more than 24 hours.

4. For Flow Test No. 1, one zone of the well shall be shut-in at the normal rate of production while the other zones remain shut-in. Such test shall be continued until the well-head pressure has stabilized and for a minimum of 24 hours. The test shall be continued until the flow test need not continue for a minimum of 24 hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in in accordance with Paragraph 3 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain shut-in while the previously shut-in zone is produced.

7. All pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which must be checked with a deadweight tester at least twice during the test and once at the end of each flow test.

8. The results of the above-described tests shall be filed in duplicate within 15 days after completion of the test. Tests shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission or Southeast New Mexico Packer Leakage Test Form No. C-115 together with the original pressure recording gauge charts and the deadweight pressures which were taken indicated thereon. In addition, on the aforesaid charts, the operator may construct a pressure versus time curve for each zone of each test indicating thereon all pressure changes which may be reflected by the gauge charts as well as all deadweight pressure readings which were taken. If the pressure curve is submitted, the original chart must be permanently filed in the operator's office. Form C-115 shall also accompany the Packer Leakage Test Form when the test period coincides with a gas-oil ratio test period.