

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

(Vacuum Abo Unit Btry #4,6-80)

Operator Phillips Petroleum Company			Lease Santa Fe and			Well No. 80	
Location of Well	Unit N	Sec 27	Twp 17	Rge 35	County Lea		
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	Glorieta		Oil	Art. Lift	Tbg.	2"	
Lower Compl	Vacuum Abo		Oil	Art. Lift	Tbg.	2"	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 10:00 A.M., 7-20-70

Well opened at (hour, date): 10:00 A.M., 7-21-70

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		X
Pressure at beginning of test.....	<u>140</u>	<u>420</u>
Stabilized? (Yes or No).....	<u>Yes</u>	<u>Yes</u>
Maximum pressure during test.....	<u>185</u>	<u>420</u>
Minimum pressure during test.....	<u>140</u>	<u>40</u>
Pressure at conclusion of test.....	<u>185</u>	<u>40</u>
Pressure change during test (Maximum minus Minimum).....	<u>45</u>	<u>380</u>
Was pressure change an increase or a decrease?.....	<u>Inc.</u>	<u>Dec.</u>

Well closed at (hour, date): 10:00 A.M., 7-22-70

Oil Production During Test: 30 bbls; Grav. 39.5 ; Gas Production During Test: 36 MCF; GOR 1200

Remarks 52 bbls. water

FLOW TEST NO. 2

	Upper Completion	Lower Completion
Well opened at (hour, date): <u>10:00 A.M., 7-23-70</u>		
Indicate by (X) the zone producing.....	X	
Pressure at beginning of test.....	<u>200</u>	<u>540</u>
Stabilized? (Yes or No).....	<u>Yes</u>	<u>Yes</u>
Maximum pressure during test.....	<u>200</u>	<u>580</u>
Minimum pressure during test.....	<u>40</u>	<u>540</u>
Pressure at conclusion of test.....	<u>40</u>	<u>580</u>
Pressure change during test (Maximum minus Minimum).....	<u>160</u>	<u>40</u>
Was pressure change an increase or a decrease?.....	<u>Dec.</u>	<u>Inc.</u>

Well closed at (hour, date) 10:00 A.M., 7-24-70

Oil Production During Test: 23 bbls; Grav. 37.8 ; Gas Production During Test: 15 MCF; GOR 652

Remarks 41 bbls. water

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

Approved [Signature] 19 70
New Mexico Oil Conservation Commission

Operator **Phillips Petroleum Company**
By [Signature] **W. J. Mueller**

By [Signature]
Title Oil & Gas Inspector

Title **Associate Reservoir Engineer**

Date 8-4-70

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on a 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 stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized and for a minimum of two hours thereafter, provided however, that they need not remain shut-in more than 24 hours.
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 until the flowing wellhead pressure has become stabilized and for a minimum of two hours thereafter, provided however, that the flow test need not continue for more than 24 hours.

5. For Flow Test No. 2, the well shall again be shut-in for pressure stabilization as prescribed in 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 until the previously shut-in zone is produced.
7. The wellhead pressure throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which shall be checked with a deadweight tester at least twice, once at the beginning and once at the end, of each flow test.
8. The results of the above-described tests shall be filed in triplicate with the Commission at the completion of the test. Tests shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission and the New Mexico Packer Leakage Test Form Revised 11-1-58, together with the original pressure recording gauge charts with all the deadweight test records which were taken indicated thereon. In lieu of filing the original charts, the operator may construct a pressure versus time graph for each test, indicating thereon all pressure changes as indicated by the gauge charts as well as all deadweight test records which were taken. If the pressure curve is submitted, the original charts must be permanently filed in the operator's files. The original charts also accompany the Packer Leakage Test Form when the test includes with a gas-oil ratio test period.

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