

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator Gulf Oil Corporation			Lease Mills Federal			Well No. 1		
Location of Well	Unit 6	Sec 11	Twp 9-S	Rge 36-E	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	Allison Abo		Oil	Kobe Pump	Casing	2" WO		
Lower Compl	Allison Penn		Oil	Kobe Pump	Tubing	1 1/2" WO		

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 12:30 P.M. 2-14-69

Well opened at (hour, date):	<u>12:10 P.M. 2-15-69</u>	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....			<u>X</u>
Pressure at beginning of test.....		<u>105</u>	<u>260</u>
Stabilized? (Yes or No).....		<u>Yes</u>	<u>Yes</u>
Maximum pressure during test.....		<u>105</u>	<u>260</u>
Minimum pressure during test.....		<u>105</u>	<u>35</u>
Pressure at conclusion of test.....		<u>105</u>	<u>35</u>
Pressure change during test (Maximum minus Minimum).....		<u>0</u>	<u>225</u>
Was pressure change an increase or a decrease?.....		<u>-</u>	<u>decrease</u>
Well closed at (hour, date):	<u>12:10 P.M. 2-16-69</u>	Total Time On Production	<u>24 hours</u>
Oil Production		Gas Production	
During Test: <u>29.39</u> bbls; Grav. <u>44.0°</u>		During Test <u>25.1</u> MCF; GOR <u>866</u>	
Remarks <u>Lower Zone (Penn) also produced 19 barrels of water.</u>			

FLOW TEST NO. 2

Well opened at (hour, date):	<u>12:10 P.M. 2-17-69</u>	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		<u>X</u>	
Pressure at beginning of test.....		<u>105</u>	<u>20</u>
Stabilized? (Yes or No).....		<u>Yes</u>	<u>Yes</u>
Maximum pressure during test.....		<u>105</u>	<u>125</u>
Minimum pressure during test.....		<u>90</u>	<u>20</u>
Pressure at conclusion of test.....		<u>90</u>	<u>105</u>
Pressure change during test (Maximum minus Minimum).....		<u>15</u>	<u>105</u>
Was pressure change an increase or a decrease?.....		<u>decrease</u>	<u>Increase</u>
Well closed at (hour, date)	<u>12:10 P.M. 2-18-69</u>	Total time on Production	<u>24 hours</u>
Oil Production		Gas Production	
During Test: <u>49.60</u> bbls; Grav. <u>42.2°</u>		During Test <u>36.0</u> MCF; GOR <u>720</u>	
Remarks <u>Upper Zone (Abo) also produced 19 barrels of water. Increase in pressure on the Lower completion during this flow was caused by the thermal expansion of the trapped fluid in the tubing string. Please refer to letter of 3-25-66 concerning this phenomena.</u>			
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. Dangler
E. Dangler

Title Area Engineer

Date 2-25-68

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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 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. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with the instructions.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. 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 other zone is produced.

7. All pressures measured during the test shall be continuously measured and recorded on pressure gauges, the accuracy of which must be checked by the operator or tester at least twice, once at the beginning and once during the test.

8. The results of the tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the appropriate New Mexico Oil Conservation Commission on Southeast New Mexico Packer Leakage Test Form Revised 11-1-58, together with the appropriate recording gauge charts with all the deadweight pressure readings indicated thereon. In lieu of filing the recording gauge charts, the operator may construct a pressure versus time curve for each zone, indicating thereon all pressure changes which occur during the test. If the pressure curve is submitted, the original recording gauge charts as well as all deadweight pressure readings shall be immediately filed in the operator's office. The original recording gauge charts shall be filed in the operator's office when the test is completed.