STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

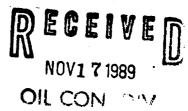
OIL CONSERVATION DIVISION

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This form is not to be used for reporting packer lookage tests in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

perator <u>M</u>	arathon Oil (Company	Lease	Lease Jicarilla Apache No. 14				
f Well: Unit	M Sec34	Twp26N	Rge	5W	County	Rio Arriba		
NAME OF RESERVOIR OR POOL			TYPE OF (Off or		METHOD OF PROD.	PROD. MEDIUM (Tog. or Cag.)		
S. Blanco Pictured Cliffs			Gas		Flow	Tubing		
Basin Dakota			Gas		Flow	Tubing		
Many data				PRESSURE DATA	1			
Jpper			SI press, paig	Slabilized? (Yes or No)				
Hour, date			5 days		193 Yes SI press, pelg Stabilized? (fes.			
mptetion 10-22	•	ľ ·	Length of time shut-in 3 days		Stabilized? (Yes or No)			
				961	N	0		
imenced at thour, da	te) #		FLOW TEST					
TIME	LAPSED TIME	PRI	ESSURE	Zone producing (U	Upper or Lowers			
(hour, date)	SINCE*	Upper Completion	Lower Completion	PROD. ZONE TEMP,	AE	MARKS		
10-22-89					Both zones shut-in			
10-23-89		180	818		Both zones shut-in			
10-24-89		185	910		Both zones shut-in			
10-25-89		188	961		Both zones shut-in			
10-26-89		192	375	ļ	Flowing lower zone			
J.0-27-90		193	309		Flowing lower zone			
duction tate di	uring test Stat.	ic - 8.0, D	iff 5.3,	Orifice - 0.8	375", Static Sp	ring - 500#		
:	BOPD	based on	Bbls. is	Hours	Grav	GOR		
i:		мс		Orifice or Meter				
			EST SHUT-IN P		,,			
Upper Impletten			Length of time shut-in		Stabilized?	Stabilized? (Yes or Not		
Hear, date shut in relation		T	Length of lime shut-in			Stabilized? (Yes or No)		



FLOW TEST NO. 2

PRESSURE

Zone producing (Upper or Lowerk

(hour, date)	SINCE ##	Upper Completion	Lower Completion	PROD. ZONE	REMARKS
			Comprehen .	TEMP.	
-•					
				· ·	
					•••
		<u> </u>			
oduction rate du	ring test				
d:	ВОРІ	D based on	Phi :-		Grav GOR
			5015. 10	Hours	Grav GOR
ıs		MCFF	D: Tested thru	(Orifice or Meter): _	
marks:	· ·				• •
		· · · · · · · · · · · · · · · · · · ·			
creby certify tha	t the informatio	n herein containe	d is true and con	nplete to the best of	my knowledge
proved NU	/ 17/1989	in herein containe			•
New Mexico Oil	Conservation Di	ivision	. 19 O _I	perator Marathon	Oil Company
			Ву	Robert L	. Ellis R. f. Ella
J.K. Cum	ungton		Tic	de <u>Producti</u>	on Engineer
le deputy (He Ing	rector	Da	te <u>11-8-89</u>	·

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage ten 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 term 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 rubing have been dimurbed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

wenced at (hour, date) 🕈 🕈

TIME

- 2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Division 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 reabilization. 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 packet leakage test, a gas well is being flowed to the aumosphere due to the lack of a pipeline connection the flow period shall be three 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. Providure 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 zone which was previously shut-in is produced.
- 7. Pressures for gas-zone tests must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours 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 text: all pressures, throughout the entire text, shall be continuously measured and recorded with recording pressure gauges the accuracy of which must be checked at least rwice, once at the beginning and once at the end of each text, 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 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 Attec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).