STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

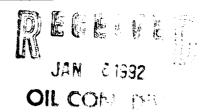
OIL CONSERVATION DIVISION

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

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	Marathon Oil (Company	Tence	Jicarilla A	pache	Well No. 9-F		
Location			resse _	01001111011	000110	110.		
of Well: Unit	O Sec. 28 Tw	p. <u>26N</u>	Rge	5W	Cou	nty <u>Rio Arriba</u>		
	NAME OF RESERVOIR OR POOL			TYPE OF PROD. MI (Oil or Gas) (PROD. MEDIUM (Tog. or Cog.)		
Upper Completion Blanco Mesaverde			Gas	Gas		Casing		
Completion Basin Dakota			Gas	Gas		Tubing		
		PRE-FL	OW SHUT-EN P	RESSURE DATA				
Hour, date s	Hour, date shut-in Length of time si		ut-in	Si press. psig		Stabilized? (Yes or No)		
Completion 1	11-17-91		5 days			No		
Lower Hour, date s		Length of time she		SI press. paig		Stabilized? (Yes or No)		
Completion	1-17-91	3 da	ays	655		No		
			FLOW TEST	NO. 1				
Commenced at (hour, da	le)#			Zone producing (Upper or Lowert:				
TIME (hour, date)	LAPSED TIME	PRES Jpper Completion	SURE Lower Completion	PROD. ZONE	REMARKS			
11-17-91					Both zo	ones shut- i h		
11-18-91		561	577		Both z	ones shut-in		
11-19-91		577	601		Both zo	ones shut-iñ		
11-20-91		590	655	,	Both zones shut-in			
11-21-91		609	310		Flowing lower zone			
11-22-91		616	304		Flowing lower zone			
Production rate d	uring test Statio	c - 7.9, D	iff 3.5,	Orifice - 1.	000", Sta	atic Spring - 500#		
Oil:	BOPD b	oased on	Bbls. is	Hours.	0	Grav GOR		
G25:		MCF	PD; Tested thru	(Orifice or Meter):			
		MID-TI	ST SHUT-IN P	RESSURE DATA				
Upper Completion Length of		Length of time shu	114n	SI press, paig		Stabilized? (Yes or No)		
Lower Completion		Length of time shut-in		SI press. paig		Stabilized? (Yes or No)		



FLOW TEST NO. 2

commenced at (hour, d	late) 주후		Zone producing (Up	per or Lowert:		
TIME (how, date)	LAPSED TIME SINCE ##	PRESSURE		PROD. ZONE	REMARKS	
		Upper Completion	Lower Completion	TEMP.	HEMANAS	
		<u> </u>				
		<u> </u>				
Production rate	during test					
5.1		·				
Oil:	ВОР	D based on	Bbls. in	Hours	Grav GOR	
G25:		MCI	PD: Tested thru	(Orifice or Meter	r):	
				(Simes of Motor	,,	
Remarks:		 				
	_ 					
I bereby certify t	that the informati	on herein contain	sed is true and co	mplete to the be	st of my knowledge.	
					20 00 000, 0000 000 Bev	
		32	Operator M	Marathon Oil Company		
New Mexico C	Oil Conservation I	Division	_		Carl A. Bagwell A. Bamal	
			E	Sy	dil A. Baqweii	
B. Origina	al Signed by CHAR	LES GHOLSON	irle E	Ingineering Technician		
,	Y OR & GAS INCE	SCTIND INST #9				

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

Date ____

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 distributed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.

Title

- 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 composition are shut-in for pressure stabilization. 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 leakage test, a gas well is being flowed to the atmosphere 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. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except

that the previously produced zone shall termain shut-in while the zone which was previously shut-in is produced.

1/3/92

- 7. Pressures for gas-gone 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 fulteen-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 tests done.
- 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 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).