## STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

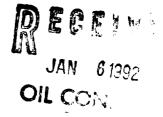
## **OIL CONSERVATION DIVISION**

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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						Lease _	Ohio "	'C" Go	vernment	Wo		
Location of Well: Unit H Sec. 26 Twp. 28			28N	Rge	ge11W Co			nty	San Juan			
NAME OF RESERVOIR OR POOL					TYPE OF PROD. (Oll or Gas)		1	METHOD OF PROD. (Flow or Art. Lill)		PROD. MEDIUM (Tbg. or Cag.)		
Upper Completion Fruitland						Gas		Flow			Casing	
Completion Pictured Cliffs						Gas			Flow		Tubing	
	γ-		···				SHUT-IN				<b></b>	·····
Upper				Length (	of time shut-in	ı	Si press. psig			Stabilized? (Yes or No)		
Completion 11-10-91			!	3 days			177			No		
Lower Hour, date shut-in			Length	Length of time shut-in			Si press. psig			Stabilized? (Yes or No)		
Completion	1	1-1	0-91			5 days		20				Yes
							FLOW TEST	NO. 1				
Convenced at (hour, date) * Zone producing (Upper or Lower):												
TIME (hour, date)			LAPSED TIME			PRESSURE		PROD.	ZONE			
		<u> </u>	SINC		Upper Com	pletion	Lower Completion	TEA		· REMARKS		
11-10-91		_							Both z		ones shut-in	
11-11-91					187	187 20			Both 2		ones shut-in	
11-12-91					198	198 20		В		Both zo	Both zones shut-in	
11-13-91					202	202 20		Both		Both zo	zones shut-in	
11-14-91					177		20	20		Flowed upper zone		zone
11-15-91		177	177			Flowed		l upper zone				
Production rate during test Static - 8.7, Diff 1.1, Orifice - 0.500", Static Spring - 250# No flow on lower zone. Flow tested upper zone.  BOPD based onBbls. inHoursGravGOR  MCFPD; Tested thru (Orifice or Meter):  MID-TEST SHUT-IN PRESSURE DATA												
Upper Hour, date shul-in			Length a	f time shut-in		SI press. psig			Stabilized?	(Yes or No)		
Lower Completion			Length o	Length of time shut-in		SI press. psig		Stabilized? (Yes or No)				



FLOW TEST NO. 2

Zone producing (Upper or Lowert:

TIME	LAPSED TIME	PRES	SURE	PROD. ZONE	REMARKS		
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	HEMANA		
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Production rate d	luring test						
Oil:	BOP	D based on	Bbls. in	Hours	Grav GOR		
Gas:	· · · · · · · · · · · · · · · · · · ·	MCF	PD: Tested thru	(Orifice or Meter	r):		
Remarks:					·		
			, . ,				
				mplete to the be	st of my knowledge.		
Approved	JAN 06 19	192	19 C	Operator Ma	arathon Oil Company		
	il Conservation I				arl A. Bagwell DAGWERC		
			В	ByCā	arl A. Bagwell Dangwell		
By	al Signed by CHAI	RLES GHOLSON	Т	ide <u>Er</u>	ngineering Technician		
DEPILTY	OIL & GAS INSPEC	TOR, DIST. #3			(3/92		
Title				)ace	/3/92		

## NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

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 Division.

Commenced at (hour, date) \*\*

- 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 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 some 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 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 texts: 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 Aztec District Office of the New Mexico Oil Conservation Division on Northwest New Mexico Packer Leakage Test Form Revised 10-01-78 with sill deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).