STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

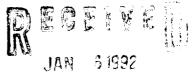
OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

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

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	1	Marathon Oil	Company	Lease	Jicarilla A	Apache	Well No. 19				
Location		B Sec. 28	Twp. 286N	Rge	5W	Cou	nty Rio Arriba				
		NAME OF RESERVO	IR OR POOL	TYPE OF P	TYPE OF PROD. N		PROD. MEDIUM (Tog. or Ceg.)				
Upper Completion S. Blanco Pictured Clift			ed Cliffs	Gas		Flow	Casing				
Lower Completion	Oter	o Chacra		Gas		Flow	Tubing				
			PRE-FL	OW SHUT-IN P	RESSURE DATA						
Upper Completion 11-3-91		7 -	Length of time shut-in 5 days			Stabilized? (Yes or No)					
Lower Completion	Lower Hour, date shut-in		Length of time sh	Length of time shut-in 3 days			Stabilized? (Yes or No)				
				FLOW TEST	NO. 1						
Consmenced	at (hour, da	te)*			Zone producing (Up	per or Lowert					
TIME (hour, date)		LAPSED TIME SINCE*	PRES Upper Completion	SURE Lower Completion	PROD. ZONE	REMARKS					
11-3-91						Both zones shut-in					
11-4-91			422	210		Both zones shut-in					
11-5-91			495	218		Both zones shut-in					
11-6-91			509	225	**	Both zones shut-in					
11-7	'- 91		533	180		Flowing	lower zone				
11-8-91			541	187		Flowing	lower zone				
Productio	on rate d	uring test Stat	ic - 9.6, D	iff 1.3,	Orifice - 0.	250", Sta	tic Spring - 200#				
Oil: BOPD based on				Bbls. in	Hours	G	Grav GOR				
Gas:			MCF	PD; Tested thru	(Orifice or Meter	·):					
MID-TEST SHUT-IN PRESSURE DATA											
			Length of time shi	·	SI press. psig		Stabilized? (Yes or No)				
Lower Completion	Hour, date s	hul-in	Length of time sh	ut-in	SI press. paig		Stabilized? (Yes or No)				



OIL COME I'M

FLOW TEST NO. 2

commenced at (hour, o	dale) 丰丰			Zone producing (Upper or Lower):			
TIME	LAPSED TIME	PRESSURE		PROD. ZONE	REMARKS		
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	nemanna.		
			į				
roduction rate	during test						
il:	BOPD based on Bb				ours Grav GOR		
as :		МСР	PD: Tested thru	(Orifice or M	eter):		
marks:							
hereby certify	that the informati	on herein contain	ed is true and co	mplete to the	best of my knowledge.		
1	JAN 06 TO	192			Marathad Oil Comme		
	Dil Conservation I		19 O	perator	Marathon Oil Company		
THE MICAGO	J. Constitution I	~ · · · · · · · · · · · · · · · · · · ·	В	ν	Marathon Oil Company Carl. A. Bagwell Carl. A. Bagwell		
Orig	inal Signed by CH	ARLES GHOLSON		•			
·			T	ide	Engineering Technician		
ric DEPUTY	OR & GAS INSPE	CTOR, DIST. #3	D	inte	1/3/92		

NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

tionable test data.

- 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.
- 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 seven days.
- 4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal care 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 Iest 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 questions.
- 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 Aztec 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).