STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

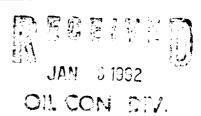
OIL CONSERVATION DIVISION

Page 1 Revised 10/01/78

This form is not to be used for reporting packer leakage tests

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

	in Souli	heast New Mexico	NORTHWEST	NEW MEXICO	WCVEN-TEVV	NGE IESI			
perator		National Co Refinery As	operative sociation	Lease _	Candado		Well No.	15	
		D Sec. 25	Twp26N	Rge	7VI	Coun	ty <u>Ric</u>	Arriba	
		NAME OF RESERV		TYPE OF P (Oll or G		METHOD OF PROD. (Flow or Art Lill)		PROD. MEDIUM (Tbg. or Ceg.)	
Upper mpletion		Pictured Cliffs		Gas	Gas			Tbq	
Lower		Chacra		Gas	Gas			Tba	
			PRE-FLO	OW SHUT-IN P	RESSURE DAT				
Upper 11/27/91		Length of time shi	Length of time shut-in 72 hrs		St press, pelg 230		Yes		
mpletion ower mpletion	Hour, date shut-in			Length of time shut-in 72. hrs		St press, psig 420		Stabilized? (Yes or No) Yes	
				FLOW TEST					
nimenced at (hour, date) * PRESSUR			RIIDE			OWER			
TIM (hour,		LAPSED TIME SINCE*	Upper Completion	Lower Completion	PROD. ZONE TEMP.		REMARKS		
:00 1/30		0	230	420		<u>. 13</u>		#A:	
1/30 :00 1/30		8	230	180					
:00 2/01		24	230	180				* ***	
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i. Mark Çit	· · · · · · · · · · · · · · · · · · ·	
<u> </u>									
ductio	n rate	during test		•			•		
:		ı BOF	D based on	Bbls. it	n Hou	ırs Gı	rav	GOR	
•		11		PD; Tested thru		Me	ter		
s :				EST SHUT-IN P	•				
s:							Stabilized? (Yes	or No)	
s:	Hour, del	le shut-in	Length of lime shu	ıt-in	Si press. peig	ľ	PIEDMITAGY (14)	. .	



MCT 0

FLOW TEST NO. 2

Commenced at (hour, dat	•)∓∓ /•∪∪ a	·III - 12/104/91	Zone producing (Upper or Lower): UDDEY		
TIME	LAPSED TIME SINCE ++	PRESSURE		PROD. ZONE	
(hour, date)		Upper Completion	Lower Completion	TEMP.	REMARKS
7:00 a.m. 12/04/91	0	230	420		
4:00 p.m. 12/04/91	৪	180	420		
7:00 a.m. 12/05/91	24	190	420		
roduction rate di	aring test				
Oil:0	ВОР	D based on	Bbls. in	Hours	Grav GOR

____ MCFPD: Tested thru (Orifice or Meter): __

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved JAN 0 3 1992	19 Operator	NCRA	
New Mexico Oil Conservation Division	Ву	Mela Chil	
Original Signed by CHARLES GHOLSON	Title	Production Manager	
Title SEPUTY OIL & GAS INSPECTOR, DIST. #3	Date	12-30-91	

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

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No leaks detected.

 $\lambda_i = i_k - \frac{1}{2} \sqrt{\frac{1}{2}}$

Gas: _

Remarks:

- 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 stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized, provided however, that they need not temain 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 remain shur-in while the zone which was previously shur-in is produced.

Meter

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 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 lean twice, once at the beginning and once at the end of each test, with a deadweight pressure gauge. If a well it 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 13 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).