## 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 of Southwest New Month

1995

packer leakage tests
in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	`	NYDER OIL C	ORP	ORATION	Lease.	O'Shea		Well —— No.	1M		
Location of Well:	UnitI	Sec. <u>3</u>	Tw	p31	Rgc	13	Coı		JUAN		
<u>-</u> -	NAME OF RESERVOIR			R POOL	I	TYPE OF PROD. (Oll or Gae)		0.	PROD. MEDIUM (Tbg. or Csg.)		
Completion						Flow .			TBG		
Completion Dakota				GAS			Flow	Flow TBG			
	· · · · · · · · · · · · · · · · · · ·			PRE-FI	OW SHUT-IN	PRESSURE DAT	.γ	<del>1</del> -			
Upper Completion 12-14-95			Length of time at 3 days		81 press. psig 370		Stabilized? (Yes or No) yes				
Lower Completion 12-14-95			Length of time shut-in 3 days		SI press, palg 430	Stabilized? (Yea		os or Noj			
					FLOW TEST	NO 1	· · · · · · · · · · · · · · · · · · ·	. I			
Commenced	at (hour, dat	•)* 12-17-	95				Zone producing (Upper or Lower): Lower				
TIME (frour, date)		LAPSED TIME SINCE*	-	PRES	Lower Completion	PROD. ZONE	REMARKS				
10.15			CS	G TBG	TBG	ТЕМР.		NEMAN	183		
1215-95			369	360	390		Both z	Both zones shut in			
1216	95		365	365	420		Both z	ones shu	ıt in		
1217	-95		370	370	430		Both z	ones shu	t in		
12-18-95		l day	375	375	275		Lower	Lower zone flowing			
12-19-95		2 days	days 380		265		Lower	Lower zone flowing			
		****	<u> </u>								
Productio	n rate di	iring test						<del></del>	-		
Oil:		ВОР	D ba	sed on	Bbls. i	ı Hou	rs G	rav	GOR		
Gas:	3	39	· · · · · · · · · · · · · · · · · · ·	MCF.	PD; Tested thru	(Orifice or Met					
						RESSURE DATA					
Upper Hour, date shut-in				Length of time shu		Si press. paig		Stabilized? (Yes	or No)		
Lower Completion				Length of time shu	t-in	St press, paig	grand for the second	Ştabilizəd? (Yes	or No)		
			l					2 7 100			

FLOW TEST NO. 2

Commenced at (nour, da	110) ~ ~	····	Zone producing (Up)	per or Lower):		
TIME	LAPSED TIME	PRESSURE		PROD. ZONE		
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS	
<del></del>	-		ļ	<del> </del>		
		1			<u>,</u>	
<del></del>		<del></del>	\			
		\ <del></del>				
			<del></del>	<u> </u>		
	<del></del> -			<u> </u>		
Production rate of	during test					
Oil·	POI	DTD 1 1	<b></b>	•		
·	DOI	D Dased on	Bbls. 11	Hours	s Grav GOR	
Gas:		мс	FPD: Tested they	(Orifice or Mann	r):	
				(Offfice of Meter	i):	
Remarks:			· · · · · · · · · · · · · · · · · · ·			
I hereby certify r	hat the informat	ion herein consid	ا ا		•	
		****		implete to the be	st of my knowledge.	
Approved	of a street	Division	19 (	Operator / SN	YDER OIL CORPORATION	
New Mexico C	il Conservation	Division			Better	
	'   FEB 2 9	1906	I	By Kay EC	Beller	
Д <sub>v</sub>	No. of the last of			PRO	DDUCTION ANALYST	
<i></i>	Line La			Title		
Title	. St. Comp. and and analysis of the state of	···	•	See Feb	oruary 22 1006	

## NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

Date

- 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.
- 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 remain shut-in more than seven days.
- 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 Paragroph 3 above.
- 6. Flow Test'No. 2 shall be cor sacred even though no leak was indicated during Flow Test No. 1. Procedure for Flo 10. 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.

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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 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.

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).