STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

OIL CONSERVATION DIVISION

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

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	NEW MEXICO	CNIT	011 00	NICEDVATIO	N DIVIS	ION	AUG27	1993 Page	
This form is not to				ONSERVATION DIVISION 1993			Old CON Revised 10/01/76		
packer I	for reporting eakage tests	NOPTU	WEST NE	W MEXICO P	ACVED I	E A K A C	TECT ST		
In Southea	st New Mexico	NORTH	MEST NE	W MEXICO P	ACKEN-E	LAKAGI	1131	*1	
\(SNYDER OIL	CORPO	RATION	Lease	DUKE	- -	. W	^{(eli} 1	
ocation	1 13,21		13131		13V	J		AN JUAN	
f Well: Unit	1 Sec	Twp	עומג'	Rge			county		
	NAME OF RESERV	OIR OR POOL		TYPE OF P			THOD OF PROD. low or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)	
Upper ompletion M	ESA VERDE			GAS			FLOW	TBG	
Lower Completion	- DOLLOTA				GAS		FLOW	TBG	
			PRE-FLO	W SHUT-IN P	RESSURE	DATA			
Upper Hour, date		Length	of time shut-		SI press. psi	53C		d? (Yes or No) YES	
Hour, date	npletion 7/30/93 Hour, date shut-in		3 days Length of time shut-in		SI press, psig		Stabilize	Stabilized? (Yes or No)	
ompletion 7	/30/93			days		480		yes	
				FLOW TEST	NO. 1				
ommenced at (hour, de	T	<u> 7/93 </u>	PRESSI	IRF		oducing (Uppe	or er Lower):	ver	
TIME (hour, date)	LAPSED TIME SINCE*	Upper Co	mpletion	Lower Completion	PROD. ZONE TEMP.		REMARKS		
7/31		csg 490	tbg 490	tbg _460			both zone	es shut in	
8/1		520	520	470			n	11	
8/2	,	530	530	480			11	11	
8/3	l day	540	540	315		,	lower zo	ne flowing	
8/4	2 days	545	545	330			11	11	
Production rate	during test								
Oil:	BO	PD based o	on	Bbls. ii	n	_ Hours.	Grav	GOR	
Dil:				D; Tested thru (Orifice or Meter)		motor			
					•	·		•	
Upper			MID-TEST SHUT-IN P			SI press. psig		Stabilized? (Yes or No)	
Completion Hour, date	shut-in	Lengt	h of time shut	-In	SI press. ps	ig	Stabilize	ed? (Yes or No)	
Lower Completion									

FLOW TEST NO. 2

ommenced at (hour, d					Zone producing (Up	per or Lower):
TIME (hour, date)	LAPSED TIME	1		SSURE	PROD. ZONE	
(11121)	SINCE	Upper	r Completion	Lower Completion	TEMP.	REMARKS
						
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	<u></u>	<u> </u>		L	1	l .
oduction rate d	luring test					
		שלים ליים ליים ליים ליים ליים ליים ליים		2011		
:	ВС	PD based	d on	Bbls. in	Hours.	Grav GOR
l:	ВС	OPD based	d on	Bbls. in	Hours.	Grav GOR .
:	В(OPD based	l on	Bbls. in	Hours.	Grav GOR .
:	В(PD based	d on	Bbls. in	Hours.	Grav GOR .
l:	В(DPD based	d on	Bbls. in	(Orifice or Meter)	Grav GOR .
s:	В(MCFI	PD: Tested thru	(Orifice or Meter)	:
l: us: marks: ereby certify th	BO	tion here	MCFI	PD: Tested thru	(Orifice or Meter)	Grav. GOR.
l:s:	BO	tion here	MCFI	PD: Tested thru	(Orifice or Meter)	of my knowledge.
s: marks: ereby certify the	nat the informa	tion here	MCFI	PD: Tested thru	mplete to the best	:
s: marks: ereby certify the	nat the informa	tion here	MCFI	PD: Tested thru	(Orifice or Meter)	of my knowledge.
s: ereby certify the proved New Mexico Oi	nat the informa	tion here 993 Division	in containe	PD: Tested thru ed is true and con 19 O	mplete to the best	of my knowledge. DEPOIL CORPORATION
l: ss: ereby certify the proved New Mexico Oi	at the information of the last the information of the last the information of the last the last the last the information of the last t	tion here 993 Division CHARLES	in containe	PD: Tested thru	mplete to the best sperator SMY[y	of my knowledge.

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.
- 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.
- 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 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).