NEW MEXICO OIL CONSERVATION COMMISSION

Revised 11-1-58

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	South1	and Roy	alty	Company	,			Lease	e Fronti	er "C"	Well No. #2	
Location												
of Well: U	nit_1_	_Sec	05 T	wp. 2	7 N	Jorth	R.	ge	11 Wes	t Count	y San Juan	
	Name	of Rese	rvoir	or Poo	1.	(Oil	or Gas) (metnod Towor	Art. Lift)	Prod. Medium (Tbg. or Csg.)	
Upper Completion		Gallup					Oil	T				
Lower							-	Art. Lift		Tubing		
Completion Basin Dakota				Gas					Flow		Tubing	
Upper Hour,	Lengt	PRE-FLCW SHUT-IN PRES Length of Lime shut-in 72 Hours			RESSU	SURE DATA		T C4 -1 -2 2 2 2 2 2 0				
Compl Shut-in 1-15-78				time shut-in			72 Hours ps		psig	Ss. Tbg. 0 Csg. 0	Stabilized? (Yes or No)	
Lower Hour, date Compl Shut-in 1-15-78				Length of time shut-in			72 Hours		SI press.		Stabilized?	
Compil Shut	<u></u>	1-13-7	0	time s	hut	-in	TEST N	rs ro 1	psig	Tbg. 0	(Yes or No)	
Commenced at	(hour	, date)	``	1-18-	-78				10	oducing (Upp	er or Lower):Lower	
Time	Lapsed time Up			Pressure per Compl. Lower			Prod. Zone		d. Zone [
(nour, date	S1	nce*	Uppe Tbg	r Compl.		Lower	Compl.	Te	emp.	Rei	marks	
1-16-78				. 0		Tbg.	0					
1 17 70			Tbg					1		***		
1-17-78		····	Tbg	0.		Tbg.	0	 				
1-18-78			Csg			Tbg.	0					
1 10 70			Tbg	. 0				1				
1-19-78	24 1	Hours	Csg			Tbg.	0					
1-20-78	48 1	Hours	Tbg Csg			Tbg.	0					
					1		······································	 		-		
Production r	ato du	aina tas	<u></u>							······································		
Oil:	ate uui	BOPD ba	so Esed o	מט		TRI	ols, in		Hre	Cm	avGOR	
Gas:		1	CFPD;	Tested	l th	iru (0	rifice	or M	eter):	·	GOR	
<u> </u>	1-4			MID-	TES	ST SHU	JT-IN PR					
Upper Hour, date Length Compl Shut-in time shu									SI press.		Stabilized?	
ower Hour, date				time shut-in Length of				SI press.		(Yes or No) Stabilized?		
1				time shut-in				psig (Yes or		(Yes or No)		
Cormonaed at	/hour	4040	. 11			FLO	TEST N	0. 2				
Time	nced at (hour, date)** ime Lapsed time Pressure					ire	Zone producing (Upper or Lower): Prod. Zone					
(hour, date)	1 4			per Compl. Lower			Compl.	··············		Ren	Remarks	
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										13		
	+									5 11	Sand the Control of t	
										(3		
Production ra								<u> </u>			- Lake	
Oil:		BOPD ba	sed o	n		Bb	ls. in_		Hrs	Graw.	GOR	
Gas:			MCFPD	; Tested	d t	hru (Orifice	or M	<pre>feter):_</pre>			
REMARKS:												
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T hanshir and	1 Pm 41:		(m. 2 m m m			_ 3 -			·			
i nereby cart knowledge.	LIY th	et tn o :	mor	mation i	υ≅χ	ein e	ontained	15	true and	complete to	the best of my	
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Approved:												
New Mexico Oil Conservation Commission By Alm Alm Alm Alm Alm Alm Alm Al											X Januari	
By	//	essal	1101				Title		District	Field Forem	an	
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Title_ST	ವಿಲ್ಲಿಷ್ಟ್ರಿಕ್ಕಿಸ್ತ್ರಿ ಪ್ರಾಥಾಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ್ರಿಕ್ಕಿಸ್ತ		·				Date		January	27, 1978		

- 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 Commission.
- At least 72 hours prior to the commencement of any packer leakage test the operator shall notify the Commission 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.
- Following completion of Flow Test No. 1, the well shall again be shut-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. Pro dure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall resain shut-in while the zone with 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-hour 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-bour 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 welt is a gas-oil or an oil-gas dual coapletion, the recording gauge shall be required on the oil zone only, with deadweight pressures as required above being taken on the gas zone.
- as required above being taken on the gas zone.

 8. The results of the above-described tests shall be filled in triplicate within 15 days after completion of the test. Tests shall be filled with the Aztec District Office of the New Mexico Oil Conservation Consission on Northwest New Mexico Packer Leakage Test Form Revised 11-1-58, with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only). A pressure versus time curve for each zone of each test shall be constructed on the reverse side of the Packer Leakage Test Form with all deadweight pressure points taken indicated thereon. For oil zones, the pressure curve should also indicate all key pressure changes which may be reflected by the recording gauge charts. These key pressure changes should also be tabulated on the front of the Packer Leakage Test Form.

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