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

Oil Conservation Division

Northwest New Mexico Packer-Leakage Test

Page 1 Revised June 10, 2003

Operator Hilco	orp Energ	gy Company		Lease	e Name L	LUDW	ICK LS	3			Well No. 1	3
Location of We	ell: Unit	Letter G	Sec	05	Twp (029N	Rg	ge	010W	API	# 30-045-08781	
Name of Reservoir or Pool			Type of Prod				Method of Prod			Prod Medium		
Upper Completion	PC			Gas				Flow			Tubing	
Lower Completion MV			Gas				Flow		Tubing			
			Pre	e-Flow S	Shut-In Pr	ressui	re Data	ı				
Upper Completion	Jpper Hour, Date, Shut-In 8/27/2018			Length of Time Shut-In 84 hours				SI Press. PSIG 158			Stabilized?(Yes or No) Yes	
Lower Hour, Date, Shut-In Completion 8/27/2018				Length of Time Shut-In 72 hours				SI Press. PSIG 212			Stabilized?(Yes or No) Yes	
	'			Flo	w Test N	o 1						
Commenced	at:	8/30/20	18	110			ducing	(Upper	or Lower): LO	WER	
Time (date/tim	Time Lapsed Time PRESSURI		SSURE Lower z	one	Prod Zone Temperature			Remarks				
8/30/2018 12:04 PM 12			158 87			reached 20% cro			ssover			
Production rate	e during t	est										
Oil: BPOD Based on: Bbls		s. In Hrs.				Grav.			GOR			
Gas		MCFPD; Te	st thru (Ori	fice or M	leter)							
			Mid	d-Test S	Shut-In Pr	essui	re Data					
Upper Completion	Hour, Da	ate, Shut-In				Stabilized?(Yes or No)						
Lower Hour, Date, Shut-In Completion		Length of Time Shut-In				SI Press. PSIG		Stabilized?(Yes or No)				

(Continue on reverse side)



Northwest New Mexico Packer-Leakage Test

Flow Test No. 2

Zone Producing (Upper or Lower)

Time	Lapsed Time	PRES	SURE	Prod Zone				
(date/time)	Since*	Upper zone Lower zo		Temperature	Remarks			
Production rate during	test							
		Distanto	1.1mm		000			
Oil: BPOE	Based on:	Bbls. In	Hrs.		GravGOR			
Gas	MCFPD; Test thr	u (Orifice or M	eter)					
_								
Remarks:								
I hereby certify that the	e information herein co	ntained is true	and complete	to the best of	my knowledge.			
Approved: 5		20 /8	Operat	or: HEC				
New Mexico Oil Co	nservation Division		By:	Nathaniel N	ichols			
1.6	21		_					
By: John C	CHO AM		Title:	Multi-Skilled	Operator			
Title: Deputy	Oil & Gas Inspec	tor,	Date:	Date: Tuesday, September 4, 2018				

NORTHWEST NEWMEXICO PACKER LEAKAGE TEST INSTRUCTIONS

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.

District #3

Commenced at:

- 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 lack of a pipeline connection the flow period shall be three hours.

- 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).
- 5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 above.