API#

30-045-07680

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 in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

•	BURLINGTON RESOUR	CES OIL & GAS CO.		Lease	KOCH STATE	СОМ	Well No. 1	
Location of Well:	Unit G Sect	00 5						
or well.		36 Twp.	0:29N	Rge.	009W	County SAN JUAN		
	NAME O	F RESERVOIR OR POC)L	T	YPE OF PROD.	METHOD OF PROD.	PROD. MEDIUM	
T.T					(Oil or Gas)	(Flow or Art. Lift)	(Tbg. or Csg.)	
Upper Completion	PICTURED CLIFFS				Gas	Flow	Tubing	
Lower Completion	MESAVERDE	DE			Gas Flow		Tubing	
		PRE-	FLOW SHUT-II	N PRESS	URE DATA			
Upper	Hour, date shut-in	Length of time shut-			on an Mal			
Completion Lower	7/31/97	144 Hc		SI press. psig		Stabilized? (Yes or No)		
Completion	7/31/97	96 Ho	urs		314			
			FLOW TE	ST NO.	l			
	at (hour,date)*	8/4/97			Zone producing (Upper or Lower) LO	WER	
TIME	LAPSED TIME	PRES	SSURE	PROD. ZONE				
(hour,date)	SINCE*	Upper Completion	Lower Comp	letion	TEMP	REM	ARKS	
8/5/97	120 Hours	212	232					
8/6/97	144 Hours	212	228					
						DE DE LE	110 E	
oduction rate	during test			i		-011 CO (<u> </u>	
Poppy 4			Hours.		DISTO.	GOR		
s:		MCFPD; Tested thru (O	rifice or Meter):					
		1 cm m	FOR OUR PROFES	DD 81.5.5.				
Upper	Hour, date shut-in		EST SHUT-IN					
Completion		Length of time shut-in	ut-in		ss. psig	Stabilized? (Yes or No)		
Lower Completion	Hour, date shut-in	Length of time shut-in		SI pres	s. psig	Stabilized? (Yes or No)		

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Deputy Oil & Gas Inspector Ву New Mexico Oil Conservation Division 8661 G O NAL Approved 61 Operator I hereby certify that the information herein contained is true and complete to the best of my knowledge. Kemarks: . Gas: MCFPD; Tested thru (Orifice of Meter): :liO BObD pszeg ou Bbls. in Hours. Grav. COK Production rate during test (hour.date) Upper Completion Lower Completion 2INCE** TEMP. **KEMARKS LAPSED TIME** PRESSURE PROD. ZONE Commenced at (hour, date)** Zone producing (Upper or Lower): FLOW TEST NO. 2

as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only). deadweight pressures as required above being taken on the gaz zone. completion, the recording gauge shall be required on the oil zone only, with 24-hour oil zone tests: all pressures, throughout the entire test, shall be which have previously shown questionable test data. approximately the midway point) and immediately prior to the conclusion of each immediately prior to the flow period, at least one time during each flow period (at thereof, and at hourly intervals thereafter, including one pressure measurement beginning of each flow-period, at fifteen minute intervals during the first hour pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the $\gamma_{\rm c}$. Pressures for gas-zone tests must be measured on each zone with a deadweight was previously shur-in is produced. except that the previously produced zone shall remain shur-in while the zone which NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS Date

following recompletion and/or chemical or frac-ture treatment, and whenever remedial work has been multiple completion. Such tests shall also be connected on all multiple completions within seven days actual completion of the well, and annually thereafter as prescribed by the order authorizing the I. A packet leakage test shall be commenced on each multiply completed well within seven days after

each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual which must be checked at least twice, once at the beginning and once at the end of continuously measured and recorded with recording pressure gauges the accuracy of flow period. Other pressures may be taken as desired, or may be requested on wells

Test form Revised 10/01/78 with all deadweight pressures indicated thereon as well New Mexico Oil Conservation Division of Northwest New Mexico Packet Leakage after completion of the test. Tests shall be filed with the Azice District Office of the 8. The results of the above described tests shall be filed in triplicate within 15 days Paragraph 3 above. 6. Flow Test No. 2 shall be conducted even though no leak was indicated during flow Test No. 1.

gas well is being flowed to the atmosphere due to the lack of a pipeline connection the flow period shall

of a gas well and for 24 hours in the case of an oil well. Mote: if, on an initial packet leakage test, a

4. For flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of

pressure stabilization. both zones shall remain shut-in until the well-head pressure in each has

3. The packet leakage test shall commence when both zones of the dual completion are shut-in for

2. At least 72 hours prior to the commencement of any packet leakage test, the operators shall also be so the Division in writing of the exact time the test is to be commenced. Offset operators shall also be so

done on a well during which the packet or the tubing have been disturbed. Tests shall also be taken at

stabilized, provided however, that they need not remain shut-in more than seven days.

any time that communication is suspected or when requested by the Division.

production while the other zone remains shur-in. Such test shall be continued for seven days if the case

5. Following completion of flow Test No. 1, the well shall again be shut-in, in accordance with

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Title

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NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator B	URLINGTON RESOURC	ES OIL & GAS CO.		Lease	KOCH STATE	сом		Well No.	1
Location of Well:	Unit G Sect	36 Twp.	029N	Rge.	009W	County	SAN JUAN		
of well:		F RESERVOIR OR POO			PE OF PROD.		OD OF PROD.	PRO	D. MEDIUM
					(Oil or Gas)	(Flov	v or Art. Lift)	T)	bg. or Csg.)
Upper Completion	PICTURED CLIFFS				Gas	F	low		Tubing
Lower Completion	MESAVERDE				Gas	f	low		Tubing
		PRE-	FLOW SHUT-IN	PRESS	URE DATA			•	
Upper Completion	Hour, date shut-in	Length of time shut-		1		:	Stabilized? (Yes or No)		
	5/17/98	144 Ho	ours	!	196				
Lower Completion	5/17/98	96 Ho			282				
		5/04/00	FLOW TES	T NO.		<i>a</i> :			
	at (hour,date)* LAPSED TIME		5/21/98 PRESSURE		Zone producing (Upper or Lower) PROD. ZONE		ower) LC	LOWER	
TIME (hour,date)	SINCE*	Upper Completion	Lower Comple	etion	TEMP		REMARKS		
5/22/98	120 Hours	198	221						
5/23/98	144 Hours	197	210				MBROD.		
							41 · · ·	* (5) jj	IPA.
						a		<i>7</i>	
Production rate	during test								• •
Oil:	BOPD based on	Bbls. i	in	Hours.		Grav.		GOR	·
Gas:		MCFPD; Tested thru ((Orifice or Meter):						
		MID	-TEST SHUT-IN	PRESSI	URE DATA				
Upper Completion	Hour, date shut-in	Length of time shut-	Length of time shut-in		ress. psig	Stabilized? (Yes or No)			
Lower Completion	Hour, date shut-in	Length of time shut-in		SI pı	ress. psig	Stabilized? (Yes or No)			

FLOW TEST NO. 2

TIME	LAPSED TIME SINCE 中本	PRESSURE		PROD. ZONE			
(hour, date)		Upper Completion	Lower Completion	TEMP.	REMARKS		
· · · · · · · · · · · · · · · · · · ·							
Gas:	ВОРІ	MCF	PD: Tested thru		Grav GOR		
Approved	JUN 22 1	ivision Corporation	O 	perator Sun y Velou ide Opera	to of my knowledge Lingth Resources H Hay Fine associate		
Title		· 	D	ate <u>6/1</u>	7/98		

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

Commenced at thour, date) **

- 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.
- 5 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, in accordance with Paragraph 3 above.
- 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 term 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).