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

Operator	BURLINGTON RESOURCES OIL & GAS CO.					Lease DAY B			Well No. 2		
Location											
of Well:	Unit	М	Sect	07 Twp.	027N	Rge.	W800	County	SAN JUAN		
			NAME OF	RESERVOIR OR POO	L	T	YPE OF PROD.	METH	OD OF PROD.	PR	OD. MEDIUM
							(Oil or Gas)	(Flov	v or Art. Lift)		Гbg. or Csg.)
Upper Completion	PIC	TURED	CLIFFS				Gas	Gas Flow			Tubing
Lower Completion	MES	SAVER	DE				Gas	Flow			Tubing
				PRE-	FLOW SHUT-IN	PRESS	URE DATA				
Upper	Hou	r, date sł	ut-in	Length of time shut-in			SI press. psig Stabilized			s or No)	
Completion		7/18	/97	72 Ho	urs	162					
Lower Completion	i		/97	120 Ho	ours		230				
					FLOW TE	ST NO.	1				
Commenced	at (hour	,date)*		7/21/97			Zone producing (Upper or Lower) UPPER				
TIME		LAPSEI	TIME	PRESSURE			PROD. ZONE				
(hour,date)	ļ	SINC	E*	Upper Completion	Lower Compl	etion	TEMP	REM		ARKS	
7/22/97		96 H	ours	148	230		: .				
7/23/97	120 Hours		145	230							
								IN IN	)EC Jan 0	8 j	
								6	മ രണ്ട	·	
Production rate	during t	test						±	Diet	<del>1 12 €</del> 16 €	F11, 1203
Dil:		BOPD	based on	Bbls. ir	1	Hours.		Grav.		GOR	
Gas:				MCFPD; Tested thru (0	Orifice or Meter):	· <u>-</u>					
	т		<u>-</u>		TEST SHUT-IN	PRESSU	JRE DATA				
Upper Completion	Hour, date shut-in Length of time shi			Length of time shut-i	n	SI press. psig			Stabilized? (Yes or No)		
Lower Completion	Hour, date shut-in Length of time shut-in			SI pr	press. psig Stabilized? (Yes or No)						
	·							1			

FLOW TEST NO. 2

Commenced at	(hour.date)**			Zone producing (Upper or Lower):					
TIME	LAPSED TIME	PRE	SSURE	PROD. ZONE					
(hour.date)	SINCE**	Upper Completion	Lower Completion	TEMP.	REMARKS				
-									
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
Production r	ate during test	·							
Oil:	BOPD base	d on	Bbls. in	Hours.	Grav. GOR				
Gas:		MCFPD; Te	sted thru (Orifice or N	Meter):					
Remarks:									
				<del></del>					
I hereby cen	tify that the informati	on herein contained	is true and complete	to the best of my know	viedge.				
Approved	JA	N 0 8 1998	19	Operator Bu	elington Fusiciscus				
New	Oil Conservation	Division		By Wal	ests Das				
Du	John	ny Rober	riosa	Title A	perating associate				
Ву	Deputy	Oil & Gas In	spector,	Date 121	30/97				
Title	1 1 1 1 1 1 1 1 1 1 1 1			77	A Company of the Company of the				

#### NORTHWEST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

- 1. A packer leakage test shall be commenced on each multiply completed well within seven days after except that the previously produced zone shall remain shut-in while the zone which actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be connected 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 buring 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.
  - 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 opinmence when both zones of the dual completion are shut-in for pressure stabilization; both zones shall remain sha in until the well-head pressure in each has stabilized, provided however, that they need not remain shut-in more than soven days.
- A. For Now Test Ro. I see zone of the dust completion shall be produced at the normal rate of production while the other zong retrains sharin. Such test stall be construed for seven days if the case of a soil yell. Note: if, on an initial pacter leakings test, a case well is being flowed by the summerizer due to the lack of a pipeline connection the flow' period shall be three hours.

  In the hours, the case of an oil yell. Note: if, on an initial pacter leakings test, a case well is being flowed by the summerizer due to the lack of a pipeline connection the flow' period shall be three hours.

  In the hours, the case of an oil yell. Note: if, on an initial pacter leakings test, a case well is being flowed by the summerizer due to the lack of a pipeline connection the flow' period shall be three hours.

  In the results of the above described tests shall be filled in triplicate within the filled producing of the spirit of the next flowed by the flowing of Northwest New Maxico Fact.

  So Flow Test No. 2 failed by the same as its Figs Test No. 1

  Reliciators for Flow Test No. 2 failed by the same as its Figs Test No. 1

  And the completion of the set, the situal be explained on the case of an our completion, the recording pauge shall be required on the oil zone completion, the recording pauge shall be required on the oil zone completion, the recording pauge shall be required on the oil zone completion, the recording pauge shall be required on the oil zone completion, the recording pauge shall be required on the oil zone completion. The results of the shore described tests, shall be required on the oil zone completion, the recording pauge shall be filled in triplicate within the charge of the shall be required on the oil zone completion.

  The results of the shore described tests shall be filled in triplicate within the New Maxico Oil Conservation production while the other zong retrains shan-in. Such test shall be continued for seven days if the case, each test, with a deadweight pressure gauge. If a well is a gas-oil or an oil-gas dual

- 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 any time that communicated is suspected of which produced by the contract of any packer leakage test, the operator shall notify immediately prior to the 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 resording pressure gauges the accuracy of which must be checked at least rivine, once at the beginning and once at the end of occupiation, the recording gauge shall be required on the oil zone only, with
  - 8. The results of the above described tests shall be filed in triplicate within 13 days after completion of the test, Tests shall be filed with the Artes District Office of the New Mexico Oil Conservation Division of Northwest New Mexico Pacher Leakage Teel from Revised 10/01/19 with all about 15/01/19 with all about 15/0 Abereon as well as the flowing temperatures (gas some only) and gravity and GOR Abbrecon as well as the Opening temporal natures (pur sorper only) and powers and OCE (oil secres only).

STATE OF NEW MEXICO ENERGY and MINERALS DEPARTMENT

#### **OIL CONSERVATION DIVISION**

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## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator B	BURLINGTON RESOURCES OIL & GAS CO.						Lease DAY B			Well No. 2	
Location											
of Well:	Unit	М	Sect	07 Twp.	027N	Rge.	W800	County	SAN JUAN		
			NAME OF	RESERVOIR OR POO	)L	T	PE OF PROD.	METH	OD OF PROD.	PRC	D. MEDIUM
							(Oil or Gas)	(Flor	w or Art. Lift)	ויי	bg. or Csg.)
Upper Completion	PIC	PICTURED CLIFFS					Gas Flow				Tubing
Lower Completion	MESAVERDE						Gas Flow				Tubing
				PRE	FLOW SHUT-I	N PRESS	URE DATA	<del></del>			
Upper	Hou	r, date sl	hut-in	Length of time shut	-in	SI pr	ess. psig		Stabilized? (Y	es or No)	
Completion		5/10	)/98	72 Ho	72 Hours		162				
Lower Completion		5/10	)/98	24 Ho	ours		447			_	
	•			·	FLOW TI	EST NO.	1				
Commenced	at (hou	r,date)*		5/11/98	3		Zone producing (	Upper or I	ower) LC	WER	•
TIME	LAPSED TIME			PRE	·	PROD. ZONE			-		
(hour,date)		SIN	CE*	Upper Completion	Lower Comp	oletion	TEMP		REN	MARKS	
5/12/98		48 H	lours	162	235					-	
5/13/98	72 Hours			164	230				)[[	CE	
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		<del>_</del>	•					<del>                                     </del>			DIV
						-				<u>ەلاھالە</u>	- త
Production rate	during	test		1						······································	
Oil:		BOPI	D based on	Bbls.	in	Hours.		Grav.		GOR	
Gas:				MCFPD; Tested thru	(Orifice or Meter	·):					
				1 mm	TEOTORE TO		IDE DATA				· <u>-</u> -
Upper Completion	Hou	r, date si	hut-in	MID-TEST SHUT-IN  Length of time shut-in			SI press. psig Stabilized?			es or No)	
Lower	Hou	r, date s	hurt_in	Length of time shut-in			press. psig Stabilized?				

(Continue on reverse side)

FLOW TEST NO. 2

TIME	LAPSED TIME	PRES	SURE	PROD. ZONE			
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS		
			1				
	-			<b></b>			
		<del> </del>		<del> </del>			
		<del> </del>					
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	JUN 2	2 1998 Division	19 (	perator Smile	ingto Sessices		
	$\alpha$ $\alpha$	Q(i)	F	by Relate	Man associate		
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tle	Deputy Off	& Gas Inspecto	r [	Title <u>Sport of</u>	198		
			<del></del> ,	<del></del>			

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

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- 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 term must be measured on each zone with a deadweight pressure gauge at time intervals as follows: 3 hours term: immediately prior to the beginning of each flow-period, at fifteen-minute intervals during the first hour thereof, and as hourly intervals thereof, and as locally intervals thereof, and on the conclusion of each flow period. 7-day term: 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 rwice, 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).