							•
This form is <u>not</u> to used for reportin packer leakage ter in Southeast New	g sts	NEW MEX		NSERVATION O PACKER L			Page 1 Revised June 10, 2003
Operator Black Hills Gas Resources Lease Name Tr 29.02-9					29.02-9	Well No/4/3	
Location Of W	ell: Unit Letter _	O_Sec_9	Twp <u>2</u>	Rge	W	_ API # 30-0 <u>-3</u> 9	- 30080
	Name of Rese	ervoir or Pool	, ,	of Prod. or Gas)		ethod of Prod. ow or Art. Lift)	Prod. Medium (Tbg. Or Csg.)
Upper Completion	SAN JOSE (Tertiany)	GAS		FI	ာ ယ	TB6
Lower Completion	Pictured C.	ps j	GAS		A	aw	TBG
	7.7		,	n Pressure Dat			
Upper Hour, Date, Shut-In Completion 8'00 Am 10-14-13			Length of Time Shut-In		SI Press. Psig		Stabilized (Yes or No)
Lower Hour, Date, Shut-In Completion 8.00 Am 10-14-13			Length of T	gth of Time Shut-In SI Press. Psig		Stabilized? (Yes or No)	
Flow Test No. 1							
Commenced at (hour, date)* Zone producing (Upper or Lower):				per or Lower):			
Time (Hour, Date)	Lapsed Time Since*	Pre Upper Compl.	ssure Lower Compl	Prod. Zo Temp		Remarks	
12:45 pm	4 days	9	370			Por wicon	Apression
10-50-13 1:30bm	1	9	381				
10-51-13 10-51-13	2	9	38≤				
10-55-13 5:30pm	3	9	38≤			St upper	Opened law
							RCVD NOV 12'13
							OIL CONS. DIV. DIST. 3

Production rate during test

Oil: 💋	BOPD based on _	Bbls. In	Hrs	Grav	GOR
Gas: <u>380</u>	Qυ MCFPD;	Test thru (Orifice of Meter):	in Anoces,1	in Efm	

Mid-Test Shut-In Pressure Data

Upper	Hour, Date, Shut-In	Length of Time Shut-In	SI Press. Psig	Stabilized? (Yes or No)
Completion				
Lower	Hour, Date, Shut-In	Length of Time Shut-In	SI Press. Psig	Stabilized? (Yes or No)
Completion				

(Continue on reverse side)

Flow Test No. 2

Commenced at (hour, date)**				Zone producing (Upper or Lower):			
Time	Lapsed Time	Pressure		Prod. Zone	Remarks		
(Hour, Date)	Since**	Upper Compl.	Lower Comp	. Temp.			
10-22-13 10-22-13	7 days	34	385		Pil low 4	ichic	
2:30pm 10-23-13		35	251				
12:50bw 10-54-13	ಎ	35	235				
10.52-13 15.20bm	3	35	ລລລ		Enci tost		
Production rate	-				_		
Oil: <u>Ø</u>			_Bbls. In	Hrs	Grav	GOR	
Gas: <u>1050</u> as	MCFF	D; Test thru (Ori	fice (r Meter);	1,230 crPiu:	~ EGM YYCHK	a wellhar	
Remarks:							

I hereby certify that the information	n herein contained is true and	complete to the best	of my knowledge
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Approved 2/17 20 15
New Mexico Oil Conservation Division

By Deputy Oil & Gas Inspector,
Title District #3

By tank Thompson

Title Pool 1994

E-mail Address Rady thompson black hills corp con

Date 11.7.13
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 case of a gas well and 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 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 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 11-16-98, with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).