## STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

## OIL CONSERVATION DIVISION 2003

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## NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator	CORDILLERA ENERGY, INC.		Lease DUKE		Well No.	10		
Location								
of Well	Unit B	Sec.	13	Twp.	31N	Rge.	13W API#	30-045-312 11
01 110		· · -						
	WAVE OF DECEMYOUR OR			TYPE OF PR	ROD		METHOD OF PROD.	PROD. MEDIUM
	NAME OF RESERVOIR OR	POOL		(Oil or Gas			(Flow or Art. Lift)	(Tbg. or Csg.)
Upper					<u> </u>			000
Completion BLANCO MESAVERDE			GAS		FLOW	CSG		
Lower	- 1 0 N D 1 K 0 T 1 K 0			CAS		FLOW	TBG	
Completion	BASIN DAKOTA (S	HUI IN)		GAS			1 LOVV	
			PRE	-FLOW SHUT-IN	PRESSU	JRE D	· · · · · · · · · · · · · · · · · · ·	Stabilized? (Yes or No)
Upper	Hour, date shut-in			Length of time shut-in		SI press. psig		
Completion	10:00 a.m. 4/11/03				7 days		660 SI press. psig	Yes Stabilized? (Yes or No)
Lower	Hour, date shut-in			Length of time shut-in 7 days			-0-	yes
Completion	10:00 a.m. 4/11/03			r days			<u> </u>	11
				FI OV	V TEST N	0.1		
	1.0	10:30 a.m.	4/18/03	1 201			Upper or Lower):	upper
	at (hour, date) *	10.30 a.iii.	PRESSURE		PROD. ZONE		opper or concept	
TIME	LAPSED TIME Since *			Lower Completion	TEMP.	DEMARKS		(S
(hour, date)	Since	Upper Completion			TEMP.	<del>                                     </del>		
		csg	tbg	tbg	-	 	to will not be tested or	connected to
11:00 a.m.	30 minutes	168		-0-		Dako	ota will not be tested or	Connected to
						١.		shed on MV and
11:30 a.m.	1 hour	70		-0-		sales	s until decline is establi	sned on MV and
					1			
12:01 p.m	1.5 hours	50		-0-		comi	mingle is approved.	
		50			1		100000	
12:30 p.m.	2 hours	50		-0-		<del> </del>		
						1	A "G	· · · · · · · · · · · · · · · · · · ·
1:00 p.m.	2.5 hours	50		-0-		<u> </u>	ADD ADD	t.
						İ	2003	· ·
1:30 p.m.	3 hours	50		-0-				<u>.</u>
	n rate during test	<b>1</b>						
Oil:	-0- BOPD ba	sed on	-0-	Bbls. in	3	Hours		्रे GOR
Oii.	-0- DOI D Da	300 011			<del>-</del>		QZ 01 CA 22 3	e de la companya de
Gas:		1884		MCFPD: Tested th	ru (Orifice or	Meter	): Orifice	
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	,							
Completion	<u> </u>							

(Continue on reverse side)

**FLOW TEST NO. 2** 

Commenced at (hour, date) **				Zone Producing (	Zone Producing (Upper or Lower): Upper			
Time	LAPSED TIME	PRESSURE		PROD. ZONE				
(hour, date)	SINCE **	Upper Completion	Lower Completion	TEMP.	REMARKS			
	rate during test	ased on	Bbls. in	Hrs	_GravGOR			
Gas:		MCFPD: Tested th	ru (Orifice or Meter):					
Remarks:								
I hereby certify that the information herein contained is true and complete to the best of my knowledge.  Approved APR 2 2 2003 Operator CORDILLERA ENERGY, INCORPORATED								
• •	co Oil Conservatio	-000		1/	000			
14CAN INIGYI			Ву	Kay	Echetan			
ву 💍	hale TI	em	Title	PRODUC	CTION TECHNICIAN			
Title DE	PUTY OIL & GAS IN	SPECTOR, DIST. #\$	Date	e 04/18/03				

DISCUSSED W TL BLM

## 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 distrubed. Tests shall also be taken at any time that communication is suspected or when requested by the Division.
- 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 notified.
- 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
- 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 tests must be measured on each zone with a dead-weight pressure gauge at time intervals as follows: 3 hours tests: immediately prior to the beginning of each flow-period, at fifteen-nminute 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 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 10-01-98 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only)