

OIL CONSERVATION DIVISION
2002
NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

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Operator CORDILLERA ENERGY, INC. Lease SOUTHERN UNION Well No. 1B
Location of Well Unit K Sec. 19 Twp. 31N Rge. 12W API # 30-045-31129

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	BLANCO MESAVERDE	GAS	FLOW	CSG
Lower Completion	BASIN DAKOTA	GAS	FLOW	TBG

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 10:00 a.m. 9-8-02	Length of time shut-in 7 days	SI press. psig 720	Stabilized? (Yes or No) yes
Lower Completion	Hour, date shut-in 10:00 a.m. 9-8-02	Length of time shut-in 7 days	SI press. psig 838	Stabilized? (Yes or No) yes

FLOW TEST NO. 1

FLOW TEST NO. 1						
Commenced at (hour, date) *		5:30 p.m. 9-15-02		Zone producing (Upper or Lower):		Lower
TIME (hour, date)	LAPSED TIME Since *	PRESSURE			PROD. ZONE	REMARKS
		Upper Completion		Lower Completion	TEMP.	
		csg	tbg	tbg		
6:00 p.m.	30 minutes	720	n/a	744	60 F	Vent well through test separator with .750
6:30 p.m.	1 hour	720	n/a	397	60 F	orifice. Avg. Pressure on orifice 21 psig.
7:00 p.m.	1.5 hours	720	n/a	210	60 F	50.6 mcf vented in 3 hours. 1/2 bbl water.
7:30 p.m.	2 hours	720	n/a	133	60 F	
8:00 p.m.	2.5 hours	720	n/a	72	60 F	
8:30 p.m.	3 hours	720	n/a	45	60 F	

Production rate during test

Oil: -0- BOPD based on -0- Bbls. in 3 Hours Grav. GOR
Gas: 405 MCFPD: Tested thru (Orifice or Meter Orifice)

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 10:00 a.m. 9-8-02	Length of time shut-in 10 days	SI press. psig 720	Stabilized? (Yes or No) yes
Lower Completion	Hour, date shut-in 8:30 p.m. 9-15-02	Length of time shut-in 3 days	SI press. psig 643	Stabilized? (Yes or No) yes

(Continue on reverse side)

NORTHWEST NEW MEXICO PACKER-LEAKAGE

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FLOW TEST NO. 2

Commenced at (hour, date) **		2:30 p.m. 09/18/02		Zone Producing (Upper or Lower): Upper	
Time (hour, date)	LAPSED TIME SINCE **	PRESSURE		PROD. ZONE	REMARKS
		Upper Completion	Lower Completion	TEMP.	
3:00 p.m.	30 minutes	602	643	60 F	Vented well through test separator
3:30 p.m.	1 hour	515	643	60 F	with 1.250 orifice. Average pressure
4:00 p.m.	1.5 hours	491	643	60 F	on orifice 33 psig. 216 mcf vented in
4:30 p.m.	2 hours	453	643	60 F	3 hours. .25 bbl water.
5:00 p.m.	2.5 hours	422	643	60 F	
5:30 p.m.	3 hours	422	643	60 F	

Production rate during test

Oil: -0- BOPD based on -0- Bbls. in 3 Hrs. Grav GOR

Gas: 1,729 MCFPD: Tested thru (Orifice or Meter): Orifice

Remarks: _____

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved SEP 23 2002, 2002 Operator CORDILLERA ENERGY, INCORPORATED
 New Mexico Oil Conservation Division
 By ORIGINAL SIGNED BY CHARLES T. PETERIN Title PRODUCTION TECHNICIAN
 Title DEPUTY OIL & GAS INSPECTOR DIST. 3 Date 09/20/02

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 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 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 10-01-98 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico

Energy, Minerals & Natural Resources Department

Form C-104
Reformatted July 20, 2001

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
5 copies

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

1 Operator name and Address CORDILLERA ENERGY, INC. 5802 Highway 64 Farmington, NM 87401		2 OGRID Number 173252
		3 Reason for Filing Code NW
4 API Number 30-045-31129	5 Pool Name BASIN DAKOTA	6 Pool Code 71599
7 Property Code 024076	8 Property Name SOUTHERN UNION	9 Well Number 1B

II. 10 Surface Location

UL or lot no. K	Section 19	Township 31N	Range 12W	Lot Idn	Feet from the 1975'	N/S Line S	Feet from the 2315'	E/W Line W	County SAN JUAN
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11 Bottom Hole Location

UL or lot no. SAME	Section	Township	Range	Lot Idn	Feet from the	N/S Line	Feet from the	E/W Line	County
12 Lse Code F	13 Producing Method Code FL	14 Gas Connection Date 9/19/2002	15 C-129 Permit Number	16 C-129 Effective Date	17 C-129 Expiration Date				

III. Oil and Gas Transporters

18 Transporter OGRID	19 Transporter Name and Address	20 POD	21 O/G	22 POD ULSTR Location and description
025244	WILLIAMS FIELD SERVICE 1800 South Baltimore Tulsa, OK 74119	2832991	G	SAME
009018	GIANT REFINING COMPANY P.O. Box 256 Farmington, NM 87499	2832990	O	SAME

IV. Produced Water

23 2832992	24 POD ULSTR Location and Description SAME
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V. Well Completion Data

25 Spud Date 08/07/02	26 Ready Date 09/24/2002	27 TD 6940' KB	28 PBTD 6898' KB	29 Perforations 6762' - 6857'	30 DHC, MC MC
31 Hole Size 12-1/4"	32 Casing & Tubing Size 9-5/8"	33 Depth Set 284'	34 Sacks Cement 245 SX (52 BBL)		
8-3/4"	7"	4220'	920 SX (313 BBL)		
6-1/4"	4-1/2"	6938'	340 SX (87 BBL)		
	2-3/8"	6818' KB			

VI. Well Test Data

35 Date New Oil	36 Gas Delivery Date	37 Test Date 9/15/2002	38 Test Length 3 hours	39 Tbg. Pressure 45#	40 Csg. Pressure 720#
41 Choke Size .750	42 Oil -0-	43 Water .50	44 Gas 405 mcf	45 AOF	46 Test Method F

47 I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

Signature: *Kay S. Eckstein*

Printed Name: **KAY S. ECKSTEIN**

Title: **PRODUCTION TECHNICIAN**

Date: **09/20/02**

Phone: **(505) 632-8056**

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date:

OCT - 8 2002