

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

June 10, 2008

Sherry Brooks  
Williams Production Co  
P O Box 640  
Aztec, NM 87410

Re: Rosa Unit 100E, I-21-31N-06W, 30-039-25135

Dear Sherry:

The 2008 Packer Leakage Test on the referenced well indicates communication between the producible zones.

In order to comply with Rule #112A, you are hereby directed to initiate remedial activity and retest the well to show separation of the zones prior to September 13, 2008.

Reference EHV0816238530 on all future correspondence

Notify the Aztec OCD in time to witness the retest.

Thank you,

Henry Villanueva  
Deputy Oil & Gas Inspector

CC: BLM

HV

Well File

**NEW MEXICO OIL CONSERVATION DIVISION**  
**NORTHWEST NEW MEXICO PACKER LEAKAGE TEST**

Operator Williams Exploration and Production Lease Name Rosa Unit

Well  
No. 100E

Location Of Well: Unit Letter I Sec 21 Twp 31N Rge 06W API # 30-0 300392513500

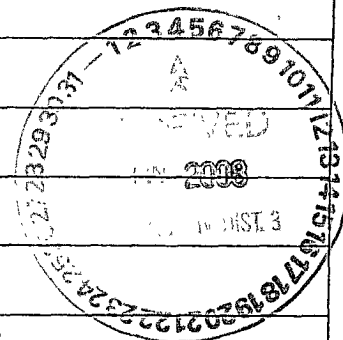
	Name of Reservoir or Pool	Type of Prod. (Oil or Gas)	Method of Prod. (Flow or Art. Lift)	Prod. Medium (Tbg. Or Csg.)
Upper Completion	<u>Picture Cliff</u>	<u>Gas</u>	<u>Flow.</u>	<u>Tbg</u>
Lower Completion	<u>Mesa Verde</u>	<u>Gas</u>	<u>Flow</u>	<u>Tbg</u>

**Pre-Flow Shut-In Pressure Data**

Upper Completion	Hour, Date, Shut-In <u>9:30 Am 5-20-08</u>	Length of Time Shut-In <u>75 hours</u>	SI Press. Psig <u>386</u>	Stabilized? <u>(Yes)</u> or No
Lower Completion	Hour, Date, Shut-In <u>9:30 Am 5-13-08</u>	Length of Time Shut-In <u>75 hours</u>	SI Press. Psig <u>289</u>	Stabilized? <u>(Yes)</u> or No

**Flow Test No. 1**

Commenced at (hour, date)* <u>1245 PM 5-16-08</u>		Zone producing (Upper or Lower): <u>Upper</u>			
Time Hour, Date)	Lapsed Time Since*	Pressure Upper Compl. Lower Compl.		Prod. Zone Temp.	Remarks
<u>5-17-08</u> <u>5:30 Am</u>	<u>15 hrs.</u>	<u>150 / 302</u>	<u>300</u>	<u>41°</u>	<u>10 mcf</u>
<u>5-18-08</u> <u>11:45 Am</u>	<u>47 hrs.</u>	<u>80 / 305</u>	<u>303</u>	<u>66°</u>	<u>1 mcf</u>
<u>5-19-08</u> <u>5:45 PM</u>	<u>75 hrs</u>	<u>149 / 393</u>	<u>400</u>	<u>86°</u>	<u>1 mcf</u>
<u>5-20-08</u> <u>11:15 Am</u>	<u>95 hrs</u>	<u>80 / 405</u>	<u>406</u>	<u>80°</u>	<u>1 mcf</u>
<u>5-21-08</u> <u>5:45 PM</u>	<u>122 hrs</u>	<u>94 / 412</u>	<u>412</u>	<u>89°</u>	<u>0 mcf</u>
<u>5-22-08</u> <u>2:25 PM</u>	<u>145 hrs</u>	<u>80 / 415</u>	<u>415</u>	<u>72°</u>	<u>0 mcf</u>



Production rate during test

None BOPD based on \_\_\_\_\_ Bbls. In \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_

: 13 MCFPD; Test thru (Orifice or Meter): EFM Meter

**Mid-Test Shut-In Pressure Data**

Upper Completion	Hour, Date, Shut-In <u>2:25 PM 5-22-08</u>	Length of Time Shut-In <u>141 hrs</u>	SI Press. Psig <u>720 406</u>	Stabilized? <u>(Yes)</u> or No
Lower Completion	Hour, Date, Shut-In <u>9:30 Am 5-13-08</u>	Length of Time Shut-In <u>15 days - 2 hrs.</u>	SI Press. Psig <u>410</u>	Stabilized? <u>(Yes)</u> or No

(Continue on reverse side)

# NORTHWEST NEW MEXICO PACKER LEAKAGE TEST

## Flow Test No. 2

Commenced at (hour, date)** 11:45 AM 5-28-08			Zone producing (Upper or Lower): Lower		
Time (Hour, Date)	Lapsed Time Since**	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		
10:15 5-29-08	22	Tbg CSg 170 150	170	72	off cycle 137 mcf
10:15 5-30-08	22	Tbg CSg 91 91	91	78	MV flowing

Production rate during test

Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. In \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_  
 Gas: 130 MCFPD; Test thru (Orifice or Meter): EFM

Remarks:

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

Approved \_\_\_\_\_ 20 \_\_\_\_\_

New Mexico Oil Conservation Division

*Failure*

By \_\_\_\_\_

Title \_\_\_\_\_

Operator Williams E+P

By Sherry Brooks

Title Team leader

E-mail Address \_\_\_\_\_

Date 6-2-08

### 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