



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

## MECHANICAL INTEGRITY TEST REPORT

(TA OR UIC)

Date of Test 6-30-10 Operator Burlington Res. API # 30-0 45-11431

Property Name Allison Wt. Well # 9 Location: Unit Sec 13 Twn 32 Rge 7

Land Type:

State             
Federal             
Private   ✓    
Indian           

Well Type:

Water Injection             
Salt Water Disposal             
Gas Injection             
Producing Oil/Gas             
Pressure observation   ✓  

Temporarily Abandoned Well (Y/N):            TA Expires:           

Casing Pres. 0  
Bradenhead Pres. 0  
Tubing Pres. 266  
Int. Casing Pres. 0

Tbg. SI Pres.             
Tbg. Inj. Pres.           

Max. Inj. Pres.           

RCVD JUN 30 '10  
OIL CONS. DIV.  
DIST. 3

Pressured annulus up to 560 psi. for 30 mins. Test passed/failed

REMARKS: Packer set 7827-7833.

Top Perf 7857 (open hole)

88 barrels to fill.

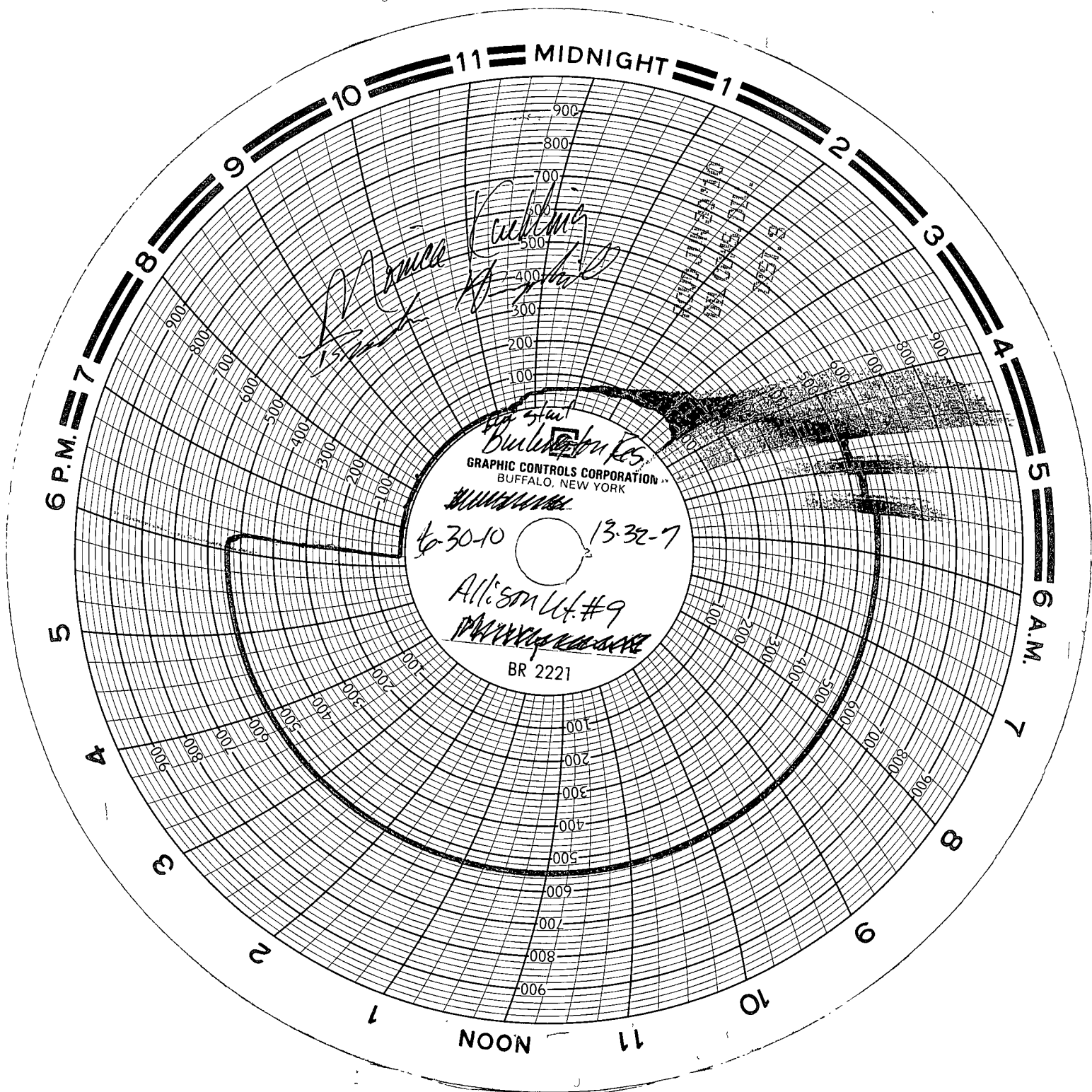
Well down to nothing when opened.

By Bruce Hill  
(Operator Representative)

Witness Monica Kuehling  
(NMOCD)

(Position)

Revised 02-11-02



# Oil Conservation Division

## Northwest New Mexico Packer-Leakage Test

Operator COP Lease Name STOREY C LS Well No. 8  
Location of Well: Unit Letter K Sec 33 Twp 028N Rge 009W API # 30-045-06974

	Name of Reservoir or Pool	Type of Prod	Method of Prod	Prod Medium
Upper Completion	PC	Gas	Flow	Tubing
Lower Completion	MV	Gas	Artificial Lift	Tubing

### Pre-Flow Shut-In Pressure Data

Upper Completion	Hour, Date, Shut-In <u>5/27/2010</u>	Length of Time Shut-In <u>182 hours</u>	SI Press. PSIG <u>191</u>	Stabilized?(Yes or No) <u>Yes</u>
Lower Completion	Hour, Date, Shut-In <u>5/27/2010</u>	Length of Time Shut-In <u>128 hours</u>	SI Press. PSIG <u>316</u>	Stabilized?(Yes or No) <u>Yes</u>

### Flow Test No. 1

Commenced at: <u>6/1/2010 8:30:00 AM</u>		Zone Producing (Upper or Lower): <u>LOWER</u>			
Time (date/time)	Lapsed Time Since*	PRESSURE		Prod Zone Temperature	Remarks
		Upper zone	Lower zone		
<u>6/3/2010 2:18:59 PM</u>	<u>54</u>	<u>191</u>	<u>142</u>		

Production rate during test

Oil: \_\_\_\_\_ BPOD Based on: \_\_\_\_\_ Bbls. In \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_

Gas \_\_\_\_\_ MCFPD; Test thru (Orifice or Meter) \_\_\_\_\_

### Mid-Test Shut-In Pressure Data

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

(Continue on reverse side)



*[Handwritten signature]*

# Northwest New Mexico Packer-Leakage Test

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## Flow Test No. 2

Commenced at:		Zone Producing (Upper or Lower)			
Time (date/time)	Lapsed Time Since*	PRESSURE		Prod Zone Temperature	Remarks
		Upper zone	Lower zone		

Production rate during test

Oil: \_\_\_\_\_ BPOD Based on: \_\_\_\_\_ Bbls. In \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_

Gas \_\_\_\_\_ MCFPD; Test thru (Orifice or Meter) \_\_\_\_\_

Remarks:

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

Approved: Deputy Oil & Gas Inspector,  
District #3 20  
 New Mexico Oil Conservation Division  
 By: Kelly G. Park  
JUL 01 2010  
 Title: \_\_\_\_\_

Operator: COP  
 By: Robin Danek  
 Title: Multi-Skilled Operator  
 Date: Friday, June 04, 2010

### NORTHWEST NEWMEXICO 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 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 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 10-01-78 with all deadweight pressures indicated thereon as well as the flowing temperatures (gas zones only) and gravity and GOR (oil zones only).

# NEW MEXICO OIL CONSERVATION DIVISION

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Revised June 10, 2003

## NORTHWEST NEW MEXICO PACKER LEAKAGE TEST

Operator DEVON ENERGY Lease Name NEBU Well No. 345  
 Location Of Well: Unit Letter H Sec 29 Twp 30N Rge 7W API # 30-0 3003930315

ROAD #2410  
 OIL CON. DIV.  
 DIST. 3

	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	PICTURED CLIFFS	GAS	FLOW	CASING
Lower Completion	DAKOTA	GAS	ARTIFICIAL LIFT	TUBING

### Pre-Flow Shut-In Pressure Data

Upper Completion	Hour, Date, Shut-In 2:45pm 5/6/10	Length of Time Shut-In 300	SI Press. Psig 167	Stabilized? (Yes or No) YES
Lower Completion	Hour, Date, Shut-In 2:45pm 5/6/10	Length of Time Shut-In 237	SI Press. Psig 685	Stabilized? (Yes or No) YES

### Flow Test No. 1

Commenced at (hour, date)* 5/16/2010 12:00pm		Zone Producing (Upper or Lower). Lower			
Time (Hour, Date)	Lapsed Time Since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl	Lower Compl.		
5/16/2010 0:00	0	167	685		turn on dakota at 685 psi
5/17/2010 0:00	24	168	149		flowed 288 mcf
5/18/2010	48	170	99		flowed 259 mcf
5/19/2010 0:00	72	170	45		flowed 188 mcf

### Production Rate During Test

Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. in \_\_\_\_\_ 0 \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_  
 Gas: \_\_\_\_\_ avg 195 \_\_\_\_\_ MCFPD; Test thru (Orifice or Meter): \_\_\_\_\_ orifice \_\_\_\_\_

### Mid-Test Shut-In Pressure Data

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

(Continue on reverse side)

A

# NORTHWEST NEW MEXICO PACKER LEAKAGE TEST

## Flow Test No. 2

Commenced at (hour, date)*		Zone Producing (Upper or Lower):			
Time (Hour, Date)	Lapsed Time Since*	Pressure		Prod. Zone Temp.	Remarks
		Upper Compl.	Lower Compl.		

Production Rate During Test

Oil: \_\_\_\_\_ BOPD based on \_\_\_\_\_ Bbls. In \_\_\_\_\_ Hrs. \_\_\_\_\_ Grav. \_\_\_\_\_ GOR \_\_\_\_\_

Gas: \_\_\_\_\_ MCFPD; Test thru (Orifice or Meter): \_\_\_\_\_

Remarks: \_\_\_\_\_

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

Approved JUL 01 2010 20 \_\_\_\_\_ Operator DEVON ENERGY  
New Mexico Oil Conservation Division

By John Todd, [Signature] Title Lease Operator  
Title Lease Operator E-mail Address John.Todd@DEVN.COM  
Deputy Oil & Gas Inspector, Date 5-20-2010  
District #3

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2. At least 72 hours prior to the commencement of any packer leakage test, 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.
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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).