



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Betty Rivera**  
Cabinet Secretary

June 24, 2002

**Lori Wrotenbery**  
Director  
Oil Conservation Division

Pure Resource  
500 West Illinois  
Midland, Texas 79701

Attn: Mr. Tejay Simpson

**RE: Injection Pressure Increase, <sup>-180</sup>**  
**West Lovington Unit No. 28 (API No. 30-025-03895)**  
**Lea County, New Mexico**

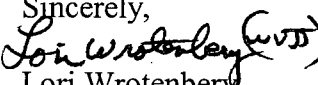
Reference is made to your request received in this office on June 14, 2002, to increase the surface injection pressure on the above-referenced well. This request is based on a step rate test conducted on May 23, 2002. After reviewing this test, we feel an increase in injection pressure on this well is justified at this time.

You are therefore authorized to increase the surface injection pressure on the following well:

<i>Well and Location</i>	<i>Maximum Surface Injection Pressure</i>
West Lovington Unit No. 28	2300 PSIG
Located in SW/4 SE/4, Section 6, Township 17 South, Range 36 East, NMPM, Lea County, New Mexico.	

This maximum surface injection pressure limit is valid only through the existing 2 3/8 inch plastic coated injection tubing.

The Division Director may rescind this injection pressure increase if it becomes apparent that the injected water is not being confined to the injection zone or is endangering any fresh water aquifers.

Sincerely,  
  
Lori Wrotenbery  
Director

cc: Oil Conservation Division – Hobbs  
State Land Office – Santa Fe  
Files: WFX-622, IPI-2002

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 and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, NM 87505

216829061 1 PL-180-NA  
Form C-103  
Revised March 25, 1999

WELL API NO.  
30-025-03895

5. Indicate Type of Lease  
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.  
B-4120-1

7. Lease Name or Unit Agreement Name:

West Lovington Unit

8. Well No.  
28

9. Pool name or Wildcat  
UPPER Lovington San Andres West 40990

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other ☐ Water Injection Well

2. Name of Operator

Pure Resource

3. Address of Operator

500 West Illinois - Midland, Texas 79701

4. Well Location

Unit Letter O : 660 feet from the South line and 1980 feet from the East line

Section 6 Township 17S Range 36E NMPM Lea County

10. Elevation (Show whether DR, RKB, RT, GR, etc.)

11. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: Step Rate Injection Test

2. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompilation.

13 3/8" 48# casing set at 226'  
8 5/8" 28# casing set at 1988'  
5 1/2" casing set at 4,718'  
Open Hole completion 4,718'-5,160'  
Injection packer at 4,660'

23 3/8"

2200 = EXSTING  
W/23 3/8 TBS

WFX-622

960

A step rate injection test was performed May 23, 2002. Purpose of the survey is to provide justification for an increase in the maximum authorized injection pressure to 2,300 PSI. As indicated by the data, the existing frac pressure is presently in excess of 2,700 PSI.

hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Terry Simpson  
Type or print name: Terry Simpson

TITLE: Area Foreman

DATE: June 11, 2002

Telephone No.: 505-396-7503

This space for State use)

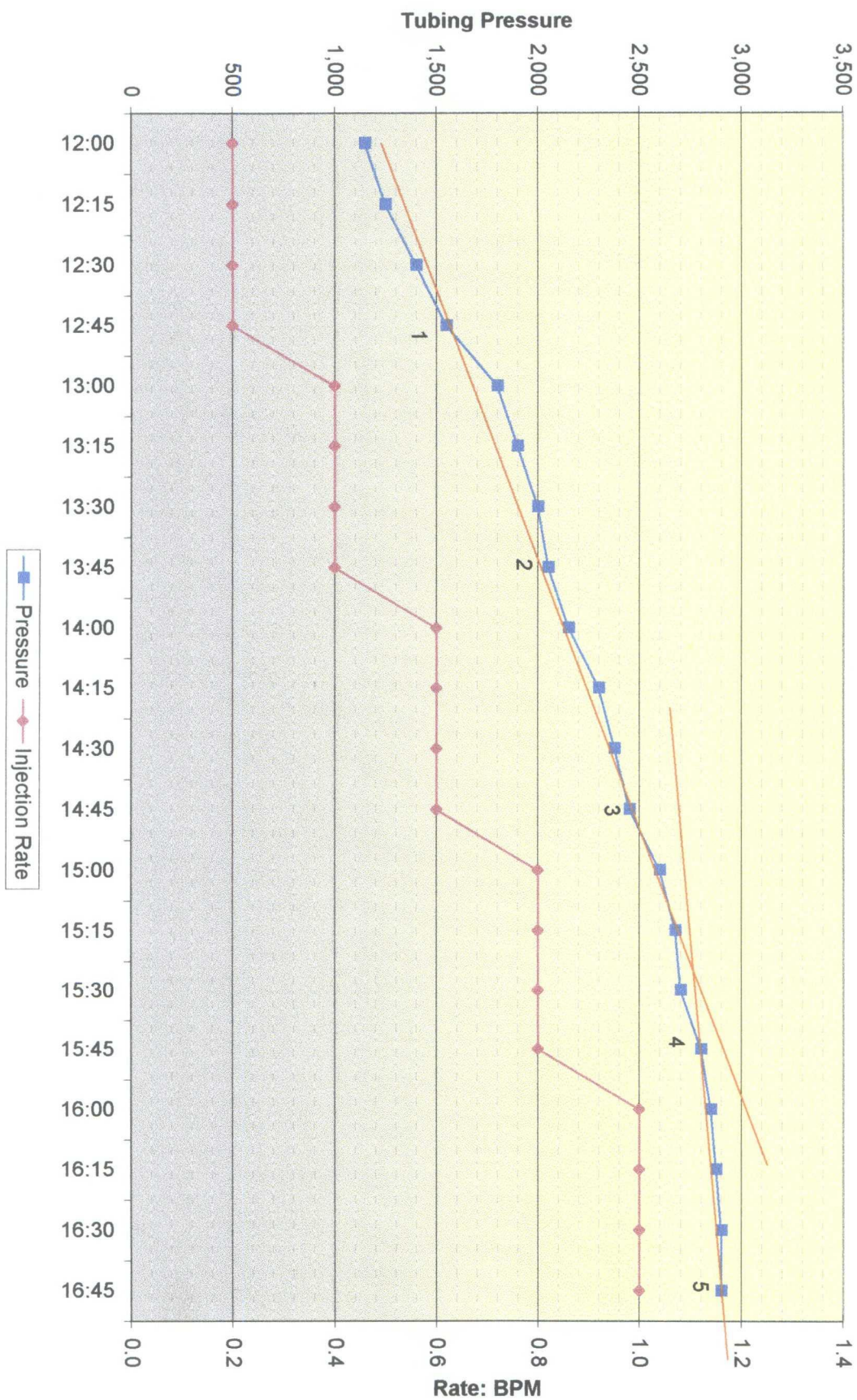
APPROVED BY

TITLE

DATE

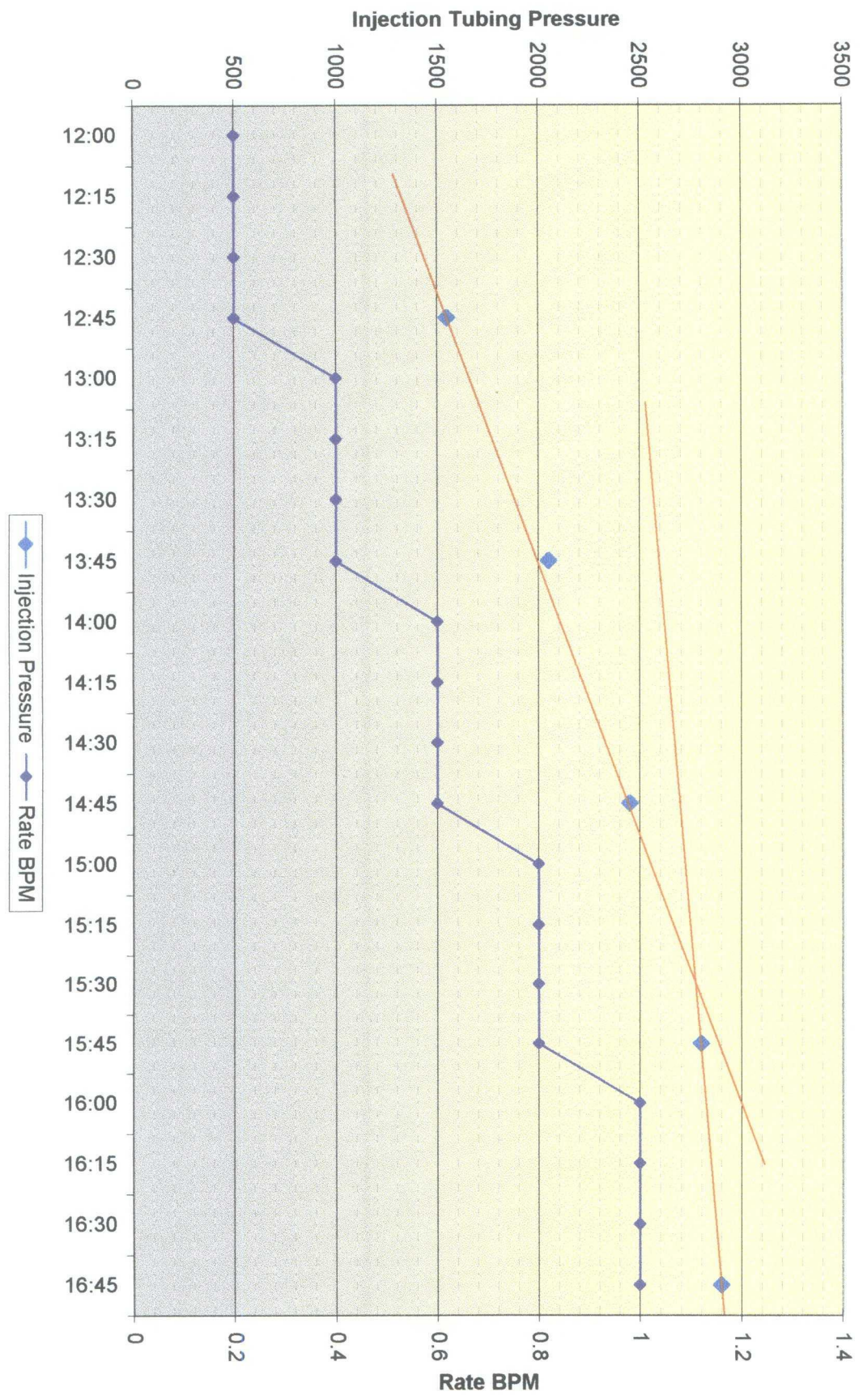
Conditions of approval, if any:

**WLU No. 28 Step Rate Test**  
May 23, 2002





**West Lovington Unit No. 28**  
 Stage End Points May 23, 2002



# West Lovington Unit No. 28

Step Rate Injection Test May 23, 2002

Time	Rate BPM	Pressure
11:45	0.0	850
12:00	0.2	1,150
12:15	0.2	1,250
12:30	0.2	1,400
12:45	0.2	1,550
13:00	0.4	1,800
13:15	0.4	1,900
13:30	0.4	2,000
13:45	0.4	2,050
14:00	0.6	2,150
14:15	0.6	2,300
14:30	0.6	2,375
14:45	0.6	2,450
15:00	0.8	2,600
15:15	0.8	2,675
15:30	0.8	2,700
15:45	0.8	2,800
16:00	1.0	2,850
16:15	1.0	2,875
16:30	1.0	2,900
16:45	1.0	2,900

