



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON**  
Governor  
**Jennifer A. Salisbury**  
Cabinet Secretary

**Lori Wrotenbery**  
Director  
**Oil Conservation Division**

October 19, 2000

Texaco Exploration & Production, Inc.  
P.O. Box 3109  
Midland, Texas 79701

Attn: Mr. Stephen Guillot

**RE: Injection Pressure Increase,  
VGSAU Well No. 30 (API No. 30-025-24307)  
Lea County, New Mexico**

Reference is made to your request dated October 12, 2000 to increase the surface injection pressure on the above referenced well. This request is based on a step rate test conducted on October 4, 2000. The results of the test have been reviewed by my staff and 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 Water</i>
<i>VGSAU Well No. 30 Unit K, Section 2, Township 18 South, Range 34 East</i>	<i>2000 PSIG</i>
<i>Lea County, New Mexico.</i>	

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.

*Injection Pressure Increase*  
*Texaco Exploration & Production, Inc.*  
*October 19, 2000*  
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Sincerely,



Lori Wrotenbery  
Director

LW/MWA/kv

cc: Oil Conservation Division - Hobbs /

Files: Case No. 4852 (Order No. R-4442); PMX's 43, 74, 111, 120, 173; IPI 4<sup>th</sup> QTR-  
2000



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

May 6, 1999

Texaco Exploration & Production, Inc.  
P.O. Box 730  
Hobbs, New Mexico 88241-0730

Attn: Mr. Siamak Safargar

**RE: *Injection Pressure Increase,  
Vacuum Grayburg San Andres Unit Waterflood Project,  
Lea County, New Mexico***

Dear Mr. Safargar:

Reference is made to your request dated April 12, 1999 to increase the surface injection pressure on 5 wells in the above referenced project. This request is based on step rate tests conducted on these wells between March 17 and April 1, 1999. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on several wells is justified at this time.

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

<b>Well and Location</b>	<b>Maximum Surface Injection Pressure</b>
Vacuum Grayburg San Andres Unit Well No.16 Unit Letter I, Section 2, Township 18 South, Range 34 East	1575 PSIG
Vacuum Grayburg San Andres Unit Well No.46 Unit Letter H, Section 2, Township 18 South, Range 34 East	2090 PSIG
Vacuum Grayburg San Andres Unit Well No.60 Unit Letter D, Section 2, Township 18 South, Range 34 East	2110 PSIG
Vacuum Grayburg San Andres Unit Well No.62 Unit Letter C, Section 2, Township 18 South, Range 34 East	2060 PSIG
Vacuum Grayburg San Andres Unit Well No.146 Unit Letter B, Section 2, Township 18 South, Range 34 East	1990 PSIG

*Injection Pressure Increase*  
*Texaco Exploration & Production, Inc.*  
*May 6, 1999*  
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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,

A handwritten signature in black ink, appearing to read "Lori Wrotenbery" followed by a stylized flourish or set of initials.

Lori Wrotenbery  
Director

LW/MWA/kv

cc: Oil Conservation Division - Hobbs /  
Files: 3<sup>rd</sup> QTR 99 PSI-X; Case File No.4852; PMXs-43, 74, 111, 120, 173



NEW MEXICO ENERGY, MINERALS  
& NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION  
2040 South Pacheco Street  
Santa Fe, New Mexico 87505  
(505) 827-7131

April 15, 1997

Texaco Exploration & Production, Inc.  
P.O. Box 730  
Hobbs, New Mexico 88241-0730

Attn: Mr. Siamak Safargar

**RE: *Injection Pressure Increase,  
Vacuum Grayburg San Andres Waterflood Unit,  
Lea County, New Mexico***

Dear Mr. Safargar:

Reference is made to your request dated February 17, 1997 to increase the surface injection pressure on 14 wells in the above referenced project. This request is based on step rate tests conducted on these wells between January 27 and February 14, 1997. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on several wells is justified at this time.

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

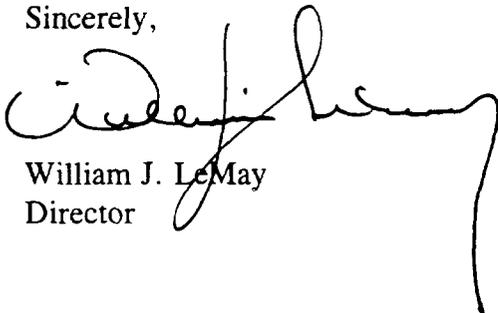
<b>Well and Location</b>	<b>Maximum Surface Injection Pressure</b>
Vacuum Grayburg San Andres Unit Well No.4 Unit Letter M, Section 1, Township 18 South, Range 34 East	1500 PSIG
Vacuum Grayburg San Andres Unit Well No.16 Unit Letter I, Section 2, Township 18 South, Range 34 East	1480 PSIG
Vacuum Grayburg San Andres Unit Well No.18 Unit Letter K, Section 1, Township 18 South, Range 34 East	1930 PSIG
Vacuum Grayburg San Andres Unit Well No.30 Unit Letter K, Section 2, Township 18 South, Range 34 East	1400 PSIG
Vacuum Grayburg San Andres Unit Well No.32 Unit Letter L, Section 1, Township 18 South, Range 34 East	1730 PSIG
Vacuum Grayburg San Andres Unit Well No.44 Unit Letter F, Section 2, Township 18 South, Range 34 East	2100 PSIG

*Injection Pressure Increase  
Texaco Exploration & Production, Inc.  
April 15, 1997  
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<b>Well and Location</b>	<b>Maximum Surface Injection Pressure</b>
Vacuum Grayburg San Andres Unit Well No.59 Unit Letter E, Section 2, Township 18 South, Range 34 East	2370 PSIG
Vacuum Grayburg San Andres Unit Well No.60 Unit Letter D, Section 2, Township 18 South, Range 34 East	1720 PSIG
Vacuum Grayburg San Andres Unit Well No.62 Unit Letter C, Section 2, Township 18 South, Range 34 East	1745 PSIG
Vacuum Grayburg San Andres Unit Well No.63 Unit Letter B, Section 2, Township 18 South, Range 34 East	2115 PSIG
Vacuum Grayburg San Andres Unit Well No.65 Unit Letter M, Section 35, Township 17 South, Range 34 East	1935 PSIG
Vacuum Grayburg San Andres Unit Well No.67 Unit Letter L, Section 35, Township 17 South, Range 34 East	2050 PSIG
Vacuum Grayburg San Andres Unit Well No.146 Unit Letter B, Section 2, Township 18 South, Range 34 East	1800 PSIG
Vacuum Grayburg San Andres Unit Well No.147 Unit Letter H, Section 2, Township 18 South, Range 34 East	2030 PSIG

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,



William J. LeMay  
Director

WJL/BES

cc: Oil Conservation Division - Hobbs  
Files: 3<sup>rd</sup> Q97 PSI-X; Case File No.4852; PMXs-43, 74, 111, 120, 173



STATE OF NEW MEXICO  
 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
 OIL CONSERVATION DIVISION



BRUCE KING  
 GOVERNOR

November 10, 1993

POST OFFICE BOX 2088  
 STATE LAND OFFICE BUILDING  
 SANTA FE, NEW MEXICO 87504  
 (505) 827-5800

ANITA LOCKWOOD  
 CABINET SECRETARY

Texaco Exploration and Production, Inc.  
 P.O. Box 730  
 Hobbs, NM 88241

Attention: T. L. Fraizer

**RE: Injection Pressure Increase Vacuum Grayburg San Andres Unit, Lea County, New Mexico**

Dear Mr. Fraizer:

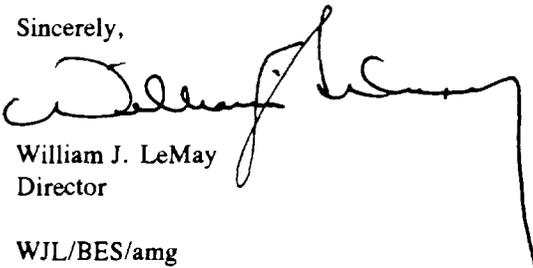
Reference is made to your request dated October 14, 1993 to increase the surface injection pressure on three wells in your Vacuum Grayburg San Andres Unit. This request is based on step rate tests conducted on these wells between October 4 and October 6, 1993. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure on these wells is justified at this time.

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

Well and Location	Maximum Injection Surface Pressure
VGSAU Well No. 30 Unit K, Section 2, Township 18 South, Range 34 East	1325 psig
VGSAU Well No. 34 Unit K, Section 2, Township 18 South, Range 34 East	1395 psig
VGSAU Well No. 50 Unit G, Section 1, Township 18 South, Range 34 East	1730 psig
All wells located in Lea County, New Mexico.	

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,



William J. LeMay  
 Director

WJL/BES/amg

cc: Oil Conservation Division - Hobbs  
 File: Case Nos.: 4852, 7591  
 PMX-111, PMX-120



STATE OF NEW MEXICO  
 ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
 OIL CONSERVATION DIVISION



BRUCE KING  
 GOVERNOR

ANITA LOCKWOOD  
 CABINET SECRETARY

August 20, 1993

POST OFFICE BOX 2086  
 STATE LAND OFFICE BUILDING  
 SANTA FE, NEW MEXICO 87504  
 (505) 827-5800

Texaco Exploration and Production Company  
 P.O. Box 730  
 Hobbs, NM 88241

Attention: T.L. Frazier

*RE: Injection Pressure Increase, Vacuum  
 Grayburg San Andres Unit, Lea  
 County, New Mexico*

Dear Mr. Fraizer:

Reference is made to your request dated August 8, 1993 to increase the surface injection pressure on five wells in your Vacuum Grayburg San Andres Unit. This request is based on step rate tests conducted on this well between July 9 and July 20, 1993. The results of the test have been reviewed by my staff and we feel an increase in injection pressure on this well justified at this time.

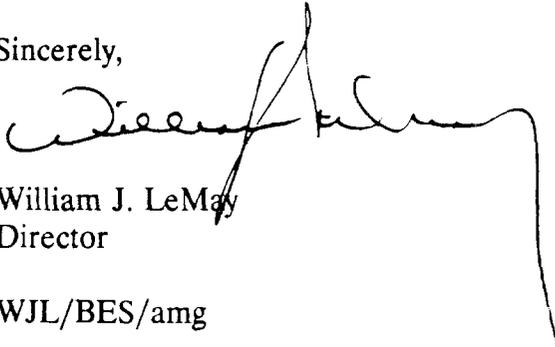
You are therefore authorized to increase the surface injection pressure on the following well:

Well and Location	Maximum Injection Surface Pressure
VGSAU Well No. 4 Unit M, Section 1, Township 18 South, Range 34 East	1310 PSIG
VGSAU Well No. 18 Unit K, Section 1, Township 18 South, Range 34 East	1410 PSIG
VGSAU Well No. 32 Unit L, Section 1, Township 18 South, Range 34 East	1700 PSIG
VGSAU Well No. 59 Unit E, Section 2, Township 18 South, Range 34 East	1295 PSIG

<b>Well and Location</b>	<b>Maximum Injection Surface Pressure</b>
VGSAU Well No. 67 Unit L, Section 35, Township 17 South, Range 34 East	1750 PSIG
These wells located in Lea County, New Mexico.	

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,



William J. LeMay  
Director

WJL/BES/amg

cc: Oil Conservation Division - Hobbs  
File: Case No. 4852  
Case No. 7591  
PMX-111  
PMX-120