



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 2088
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.

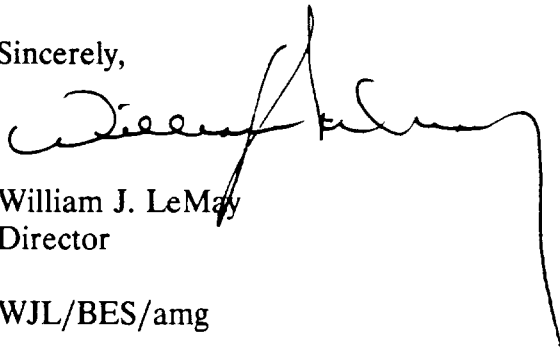
You are therefore authorized to increase the surface injection pressure on the following well:

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

Well and Location	Maximum Injection Surface Pressure
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



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



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:

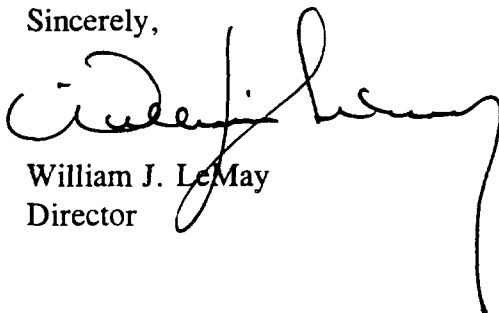
Well and Location	Maximum Surface Injection Pressure
Vacuum Grayburg San Andres Unit Well No.4 Unit Letter M, Section 1, Township 18 South, Range 34 East	1500 PSIG
Vacuum Grayburg San Andres Unit Well No.16 Unit Letter I, Section 2, Township 18 South, Range 34 East	1480 PSIG
Vacuum Grayburg San Andres 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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Well and Location	Maximum Surface Injection Pressure
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: 3rd Q97 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

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:

Well and Location	Maximum Surface Injection Pressure
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
Page 2

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 cursive script, appearing to read "Lori Wrotenbery".

Lori Wrotenbery
Director

LW/MWA/kv

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



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
Page 2

Sincerely,

Lori Wrotenbery by MWA

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 4th QTR-
2000