

# New Mexico Energy, Minerals and Natural Resources Department

**Bill Richardson**  
Governor

**Jim Noel**  
Cabinet Secretary

**Karen W. Garcia**  
Deputy Cabinet Secretary

**Mark Fesmire**  
Division Director  
Oil Conservation Division



October 20, 2010

Paul T. Brown  
Chevron USA  
15 Smith Road  
Midland, TX 79705

**Re: Lovington Paddock Unit Well No. 50 (API No. 30-025-05419)**  
Unit D, Section 6, T17S, R37E, NMPM, Lea County  
Permitted San Andres Injection Depths 6036 to 6229 feet  
Permitted maximum surface pressure 2000 PSI

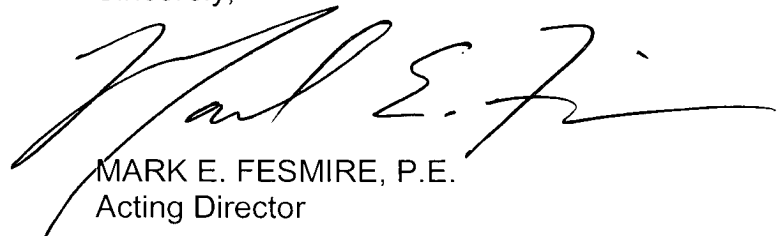
You have submitted a request on behalf of Chevron for clarification of the allowable packer setting depth on the above mentioned injector well.

Your sundry states the new packer setting depth is 6000 feet while the existing disposal permit states the allowable packer setting depth is "approximately 5910 feet".

Records indicate the top of the San Andres unitized interval is approximately 5971 feet. The packer seat is within 100 feet of the San Andres unitized interval.

Your new packer seat at **5971** feet is hereby **approved**.

Sincerely,

A handwritten signature in black ink, appearing to read "Mark E. Fesmire".

MARK E. FESMIRE, P.E.  
Acting Director

cc: Oil Conservation Division – Hobbs  
File: API No. 30-025-05419



## Wellbore Diagram

Created: 10/12/10 By: PTB  
 Updated: By:  
 Lease: Lovington Paddock Unit  
 Field: Lovington Paddock  
 Surf. Loc.: 660' FNL & 902' FWL  
 Bot. Loc.:  
 County: Lea St.: NM  
 Status: Shut-in Injector

Well #: 50 St. Lse:  
 API 30-025-05419  
 Unit Ltr.: D Section: 6  
 TSHP/Rng: 17S / 37E  
 Unit Ltr.: Section:  
 TSHP/Rng:  
 Directions: Buckeye, NM  
 Chevno: FA6546

## Surface Casing

Size: 13-3/8"  
 Wt., Grd.: 40#  
 Depth: 336'  
 Sxs Cmt: 330 sx  
 Circulate: yes  
 TOC: Surface  
 Hole Size: 17-1/4"

KB:  
 DF:  
 GL: 3,812  
 Ini. Spud: 07/31/53  
 Ini. Comp.: 08/31/53

## Intermediate Casing

Size: 9-5/8"  
 Wt., Grd.: 32#  
 Depth: 3093'  
 Sxs Cmt: 1550 sx  
 Circulate: yes  
 TOC: Surface  
 Hole Size: 12-1/4"

C-103 Well History:  
 5/1991 - Conv. to Injection.  
 Pkr set at 5838'  
 11/1993 - Packer re-set at 5993'  
 9/1998 - MIT test. Packer set at 5932'

## Production Casing

Size: 5-1/2"  
 Wt., Grd.: 15.5#  
 Depth: 6292'  
 Sxs Cmt: 450 sx  
 Circulate: No  
 TOC: 4150' - Temp Svy  
 Hole Size: 8-3/4"

2-3/8" IPC Tbg. (179 jts.)

AS1X Packer @ 5910'

Top of Unitized interval: 5971'

Paddock Perfs: 6036' - 6229'

PBTD: 6,256  
 TVD: 6,292

WFX-605  
 R-3174



BRUCE KING  
GOVERNOR

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



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

April 14, 1992

Greenhill Petroleum Corporation  
11490 Westheimer Road, Suite 200  
Houston, Texas 77077-6841

Attention: Michael J. Newport

*RE: Injection Pressure Increase  
Lovington Paddock Unit Waterflood Project  
Lea County, New Mexico*

Dear Mr. Newport:

Reference is made to your request dated March 27, 1992, to increase the surface injection pressure on 22 wells in the Lovington Paddock Unit Waterflood Project. This request is based on a step rate test conducted on these wells between the dates February 22 and March 11, 1992. The results of the test 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:

<u>WELL AND LOCATION</u>	<u>MAXIMUM INJECTION SURFACE PRESSURE</u>
LPU No. 5 660' FSL & 1980' FWL "N" 25-16S-36E	1600 PSIG
LPU No. 7 330' FSL & 330' FEL "P" 25-16S-36E	2000 PSIG

<u>WELL AND LOCATION</u>	<u>MAXIMUM INJECTION SURFACE PRESSURE</u>
LPU No. 12 781' FNL & 660' FWL "D" 31-16S-37E	2000 PSIG
LPU No. 14 940' FNL & 1741' FEL "B" 36-16S-36E	1800 PSIG
LPU No. 16 660' FNL & 660' FWL "D" 36-16S-36E	2000 PSIG
LPU No. 18 2310' FNL & 330' FEL "H" 35-16S-36E	2000 PSIG
LPU No. 20 1830' FNL & 2130' FWL "F" 36-16S-36E	2000 PSIG
LPU No. 22 2080' FNL & 660' FEL "H" 36-16S-36E	2000 PSIG
LPU No. 24 2310' FNL & 1968' FWL "F" 31-16S-37E	2000 PSIG
LPU No. 28 2108' FSL & 624' FWL "L" 31-16S-37E	2000 PSIG
LPU No. 31 1650' FSL & 890' FWL "L" 36-16S-36E	1800 PSIG

WELL AND LOCATION

MAXIMUM INJECTION  
SURFACE PRESSURE

LPU No. 37  
330' FSL & 2290' FWL  
"N" 31-16S-37E

2000 PSIG

LPU No. 39  
810' FSL & 660' FEL  
"P" 36-16S-36E

2000 PSIG

LPU No. 41  
810' FSL & 2130' FWL  
"N" 36-16S-36E

2000 PSIG

LPU No. 46  
660' FNL & 990' FWL  
"D" 1-17S-36E

2000 PSIG

LPU No. 48  
660' FNL & 2080' FEL  
"B" 1-17S-36E

2000 PSIG

LPU No. 50  
660' FNL & 902' FWL  
"D" 6-17S-37E

2000 PSIG

LPU No. 52  
510' FNL & 2190' FEL  
"B" 6-17S-37E

2000 PSIG

LPU No. 56  
1650' FNL & 1733' FWL  
"F" 6-17S-37E

2000 PSIG

LPU No. 58  
1980' FNL & 560' FEL  
"H" 1-17S-36E

2000 PSIG

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WELL AND LOCATION

MAXIMUM INJECTION  
SURFACE PRESSURE

LPU No. 60  
1980' FNL & 2310' FWL  
"F" 1-17S-36E

2000 PSIG

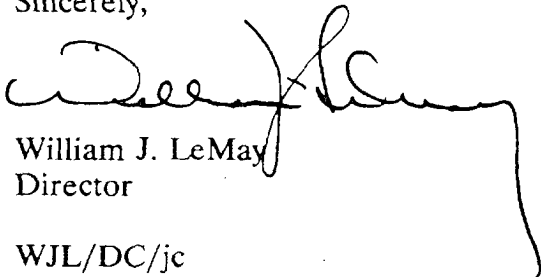
LPU No. 71  
660' FSL & 660' FEL  
"P" 1-17S-36E

1790 PSIG

All 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/DC/jc

cc: Oil Conservation Division - Hobbs  
File: WFX-605 ✓  
WFX-607  
D. Catanach  
R. Brown



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

BRUCE KING  
GOVERNOR

April 9, 1991

POST OFFICE BOX 1090  
HOBBS, NEW MEXICO 88241-1990  
(505) 333-9181

Greenhill Petroleum Corporation  
11490 Westheimer, Suite 200  
Houston, Texas 77077

Gentlemen:

As per your request, you may begin injection into the  
Lovington San Andres Unit Well No. 13-H, Section 36,  
Township 16 South, Range 36 East.

I feel you have had sufficient time since the meeting on  
January 11, 1991, regarding the Lovington San Andres Unit  
and the Lovington Paddock Unit expansions to begin the  
workovers on the problem wells.

We request that you submit your proposals for the procedures  
necessary to bring the wells into compliance with Division  
Order R-9431.

We request 24 hours notice prior to re-cementing or  
replugging of the wells in order to witness the operation.

Very truly yours

OIL CONSERVATION DIVISION

Jerry Sexton  
Supervisor, District I

JS:bp

cc: Roland Beal, Box 1949, Hobbs, NM 88241-1949  
David Catanach  
File

