

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING
GOVERNOR



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

WELL AND LOCATION

MAXIMUM INJECTION
SURFACE PRESSURE

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

2000 PSIG

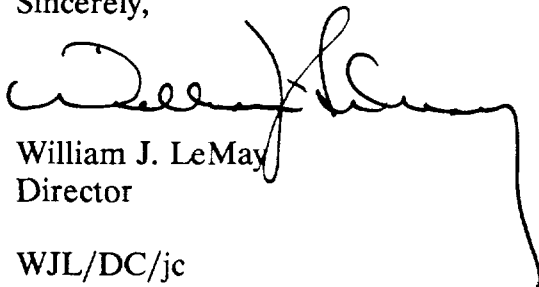
LPU No. 71
660' FSL & 660' FEL
"P" 1-17S-36E

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