



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



November 20, 1992

BRUCE KING  
GOVERNOR

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

ANITA LOCKWOOD  
CABINET SECRETARY

Greenhill Petroleum Corporation  
Attention: Michael J. Newport  
11490 Westheimer Road, Suite 200  
Houston, TX 77077-6841

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

Dear Mr. Newport:

Reference is made to your request dated November 4, 1992, to increase the surface injection pressure on eight wells in the Lovington Paddock Unit Waterflood Project. This request is based on step rate tests conducted on these wells between August 4 and October 21, 1992. 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:

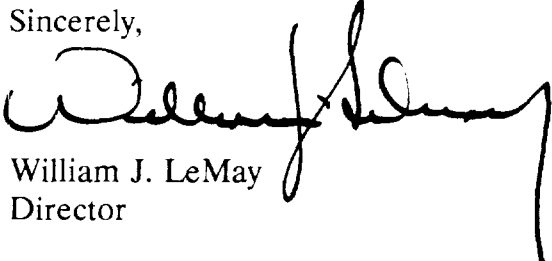
WELL AND LOCATION	MAXIMUM INJECTION SURFACE PRESSURE
LPU Well No. 26 2310' FSL - 2160' FEL Unit J, Section 31, Township 16 South, Range 37 East	2000 PSIG
LPU Well No. 35 810' FSL - 310' FEL Unit P, Section 31, Township 16 South, Range 37 East	2000 PSIG
LPU Well No. 43 660' FSL - 460' FEL Unit P, Section 35, Township 16 South, Range 36 East	2000 PSIG
LPU Well No. 54 1650' FNL - 660' FEL Unit H, Section 6, Township 17 South, Range 37 East	2000 PSIG

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WELL AND LOCATION	MAXIMUM INJECTION SURFACE PRESSURE
LPU Well No. 63 1980' FSL - 990' FWL Unit L, Section 1, Township 17 South, Range 36 East	2000 PSIG
LPU Well No. 65 2310' FSL - 2310' FEL Unit J, Section 1, Township 17 South, Range 36 East	2000 PSIG
LPU Well No. 67 2310' FSL - 660' FWL Unit L, Section 6, Township	2000 PSIG
LPU Well No. 69 2173' FSL - 2173' FEL Unit J, Section 6, Township 17 South, Range 37 East	2000 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/amg

cc: Oil Conservation Division - Hobbs  
File: WFX-631  
WFX-607  
WFX-605