



**NEW MEXICO ENERGY, MINERALS
& NATURAL RESOURCES DEPARTMENT**

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

February 23, 2000

Sage Energy Company
P.O. Drawer 3068
Midland, Texas 79702-3068

Attn: Mr. George M. Harris, Jr.

pDEV0019968030

**RE: Injection Pressure Increase, - 12
North Vacuum (Abo) North Unit Waterflood Project,
Lea County, New Mexico**

Dear Mr. Harris:

Reference is made to your request dated February 22, 2000 to increase the surface injection pressure on seven wells in the above referenced project. This request is based on step rate tests conducted on these wells on February 3rd and 4th, 2000. The results of the tests have been reviewed by my staff and we feel an increase in injection pressure all of the wells is justified at this time.

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

| <i>Well and Location</i> | <i>Maximum Surface Injection Pressure</i> |
|--|---|
| North Vacuum (Abo) North Unit Well No.1B-1 30-025-24487 Unit Letter F, Section 1, Township 17 South, Range 34 East | 4680 PSIG |
| North Vacuum (Abo) North Unit Well No.2A-1 30-025-23945 Unit Letter N, Section 1, Township 17 South, Range 34 East | 4605 PSIG |
| North Vacuum (Abo) North Unit Well No.6C-1 30-025-24631 Unit Letter B, Section 1, Township 17 South, Range 34 East | 4185 PSIG |
| North Vacuum (Abo) North Unit Well No.17-1 30-025-25067 Unit Letter P, Section 35, Township 16 South, Range 34 East | 4280 PSIG |
| North Vacuum (Abo) North Unit Well No.19-1 30-025-25005 Unit Letter H, Section 2, Township 17 South, Range 34 East | 4850 PSIG |
| North Vacuum (Abo) North Unit Well No.19-2 30-025-25048 Unit Letter J, Section 2, Township 17 South, Range 34 East | 4050 PSIG |

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| <i>Well and Location</i> | <i>Maximum Surface Injection Pressure</i> |
|--|---|
| North Vacuum (Abo) North Unit Well No.21A-1 30-025-25378 Unit Letter F, Section 2, Township 17 South, Range 34 East | 4500 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,



Lori Wrotenbery
Director

LW/MWA/kv

cc: Oil Conservation Division - Hobbs
Files: 1st Qtr 2000 IPI; Case File No.10103 (Division Order No. R-9359)
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