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Enhanced Recovery
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March 28, 2002

New Mexico Energy, Minerals, and Natural Resources Department
Oil Conservation Division
Attn: David Catanach
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Subject: Request increase in surface injection for wells North Vacuum Abo West
Unit #3 and #5**

Dear Mr. Catanach:

Texaco Exploration and Production Inc. respectfully requests increases in injection pressure for the following North Vacuum Abo West Unit wells:

Well Number	API Number	Location	Requested Max Surface Water Injection Pressure	Requested Max Surface CO ₂ Injection Pressure
3	3002524495	Unit L, Section 15, T-17S, R-34E	3050 PSIG	N/A
5	3002535562 24112	Unit D, Section 22 T-17S, R-34E	3400 PSIG	N/A

Enclosed, please find step rate tests for the wells listed above. In addition, a plot of bottom-hole pressure versus rate has also been included using the Hazen Williams Formula to account for frictional pressure loss. This calculation was performed because the surface pressures did not plot linearly versus rate, indicating that frictional pressure was significantly impacting the surface pressures.

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