



Texaco Exploration and Production Inc
Permian Basin Business Unit
Hobbs Operating Unit

P. O. Box 3109
Midland TX 79702-3019
505 688 4100

May 8, 2001

New Mexico Oil Conservation Division
P.O. Box 2088
Santa Fe NM 87501
Attention: Mr. David R. Catanach

RE: **Request for Increase in Surface Injection Pressure Limits**

Texaco Exploration and Production Inc
Central Vacuum Unit Well No. 173H; T17S, R34E; PMX-211; API # 30-025-35212
Central Vacuum Unit Well No. 241H; T17S, R34E; PMX-211; API # 30-025-35213
New Mexico "Z" State NCT-1 Well No. 1; T18S, R34E; SWD-776; API # 30-025-29988
Lea County, New Mexico

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Dear Mr. Catanach,

Texaco requests permission to increase surface injection pressure limits in these three wells. Step rate tests were performed on the three above-captioned wells on February 27, May 2, and March 6, 2001 respectively. Mr. Gary Wink of the District 1 office was notified about these tests by phone.

The first two wells are horizontal injectors drilled as part of the Central Vacuum Unit CO₂ flood. Well 173H injected water during the test up to a final surface pressure of 1901 PSIG and the radial flow straight line was maintained until the end of the test. Our highest typical requested injection pressure limits for CO₂ injection wells in the Vacuum field are 1500 PSIG for water injection (well below the maximum test pressure) and 1850 PSIG for CO₂ injection; therefore, we request increasing our permitted injection pressures to these limits.

Well 241H injected water during the test up to a final surface pressure of 1864 PSIG and our interpretation is that a straight line was established after a long wellbore storage period, but the last two points departed from that straight line. We calculated surface formation parting pressure to be 1514 PSIG. Therefore, for this well we also request surface injection pressure limits of 1500 PSIG for water injection and 1850 PSIG for CO₂ injection.

The New Mexico "Z" State NCT-1 Well No. 1 is a water disposal well. During our step rate test of this well we injected water up to a final surface pressure of 2152 PSIG and the radial flow straight line was maintained until the end of the test. We request an injection pressure limit of 2152 PSIG for this well.

Thank you for your consideration. Please call me at 915-688-4577 if you have questions or concerns.

Yours truly,

Stephen Guillot
Production Engineer

Attachments

→ Cc: Mr. Chris Williams
Hobbs NMOCD