



Texaco Exploration
and Production Inc

500 North Loraine
Midland TX 79701

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Midland TX 79702

September 11, 1996

GOV - STATE AND LOCAL GOVERNMENTS

Directional Drilling - Horizontal
Non-Standard Proration Unit
North Vacuum Abo West Unit Well No. 27
Vacuum Abo, North Field
Lea County, New Mexico

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
2040 South Pacheco
Santa Fe, New Mexico 87505

Attention: Mr. Michael E. Stogner

Gentlemen:

Administrative approval, Rule 111.D and Rule 104.D, is requested to directionally drill a horizontal well in a non-standard eighty-acre proration unit in the Abo formation.

The North Vacuum Abo West Unit is a candidate for a horizontal well due to the heterogeneous nature of the reservoir. Vertical segregation is common, with a productive interval consisting of 4 to 7 (10' to 40' thick) porous zones, which are often subdivided by low porosity lenses. Porosity quality varies laterally from well to well within a single lithologic unit. Additionally, porosity development cross cuts stratigraphic boundaries. Application of this particular version of horizontal technology to this reservoir will allow for drainage from laterally discontinuous lenses which would otherwise not be tapped without dense vertical well spacing. The proposed Northeast - Southwest direction of the horizontal sections are dictated by the current injection patterns on the North Vacuum Abo West Unit and the adjacent North Vacuum Abo Unit which is operated by Mobil. As per our conversation this day, if this well is successful Texaco plans to make this Unit a "Project Area" for horizontal drilling.

Attached for your information is a copy of our directional plans, a type log section, and Form C-102.

The "affected" offset operators to this well have been notified of this request (see attached offset operator's list and certified mail receipts). Texaco grants itself a waiver to this request.

Any questions concerning this request should be directed to me at (915) 688-4606.

Yours very truly,

C. W. Howard
Engineer's Assistant

CWH:
CC: NMOCD, P. O. Box 1980, Hobbs, NM 88240
Attachments