

MIDLAND DISTRICT, BRIERCROFT SAVINGS BUILDING • (915) 682-7316 MAILING ADDRESS FI OLDRAWER 1828 MIDLAND TEXAS 79702 1828

January 30, 1987

Energy & Minerals Department P.O. Box 1980 Hobbs, New Mexico 88240

Attn: Mr. Jerry Sexton

Re: Viersen #3-0 Sec. 4-T17S-R37E Lea County New Mexico

Dear Mr. Sexton:

Pennzoil commenced drilling of the Viersen No. 3 on January 1, 1987. The unorthodox location had been approved during December. Because that hearing was contested and the well is being closely watched by offset operators, I thought this progress report could be beneficial to you.

At a measured depth of 8865', a multi-shot survey was conducted. The coordinates at that time were 31.60' North and 99.42' East resulting in a closure distance of 104.32' N72.37°E from the surface location. The surface location is 150' FSL and 2080' FEL of Section 4, T17S, R37E.

The 100' easternly move was satisfactory to Pennzoil since it more closely followed the December hearing-approved location that was 1980' FEL of Section 4. To achieve the desired location of 150' FSL at the proposed completion zone, however, a downhole motor run was necessitated. Motor Run No. 1 was made from 9638' to 9862'. The angle was changed from approximately 5° due North to 5° due South.

It was anticipated that the natural deviation of the well would cause the well to be no closer than 150' FSL at the proposed pay zone (estimated top at 11,050'). A packed bottomhole assembly and a normal pendulum assembly were utilized in this attempt. When it was clear the well would be closer than 150' FSL at 11,050', a second motor run was made from 10,397' to 10,468'. Estimated cost of that run was \$6000.

Pennzoil now anticipates that at 11,050' the bottomhole location of the Viersen No. 3 should be between 150'-160' from the South line of Section 4. A final multi-shot survey will be run at T.D. and provided to the Energy and Minerals Department as soon as possible. Thank you for your cooperation in this matter. If I can be of any assistance, please call.

Yours very truly,

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Joel L. Pettit District Engineer