

Mobil Producing Texas & New Mexico Inc.

February 25, 1983

NINE GREENWAY PLAZA SUITE 2700
HOUSTON, TEXAS 77046

Oil Conservation Division
P.O. Box 2088
Santa Fe, New Mexico 87501

Attention Mr. J. D. Ramey

7.01
SALT WATER DISPOSAL WELL
MOBIL PRODUCING TX. & N.M. INC.
SANTA FE PACIFIC LEASE, WELL #3
CROSSROADS DEVONIAN POOL
LEA COUNTY, NM

Gentlemen:

R-6647 MPTM respectfully requests authorization to increase the present designated injection interval from 12,212'-12,555' to 4900'-12,555'. Our original authorization was granted under Case #7206, Order No. R-647, dated 4-13-81, please refer to this document for information required for Sections VI, VIII, X and XI of this application. At this time, we desire to continue injecting production water from 12,222'-12,555' while labeling a longer injection interval. This authorization will allow us to set a packer within 100' of the labeled injection zone at savings of ±\$70,000 in tubing costs which would otherwise be incurred. In this application, we submit the relevant data to demonstrate protection of the fresh water aquifer, Ogallala, at ±175', and that correlative rights are not violated or no known loss of oil or gas reserves occur.

The Ogallala aquifer is protected by the well's construction, geology, and reservoir conditions. Mechanically, the Ogallala is isolated from the injection water and from the sources of contamination by these factors: (1) three strings of casing plus a cemented surface casing string surround the wellbore, (2) injection will be through 4½" tubing lined with fiberglass to a packer set at ±4900' and then through 7" casing to the Devonian formation, 12,212'-12,555'. (see completion sketch), (3) required average pump pressures are less than ±50 PSI, virtually guaranteeing the fluid to go into the Devonian formation, and (4) leak detection and monitoring will be in accordance with New Mexico statewide rules governing saltwater disposal.

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