

# Mobil Producing Texas & New Mexico Inc.

March 1, 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 #8  
CROSSROADS DEVONIAN POOL  
LEA COUNTY, NM

Gentlemen:

Mobil Producing TX. & N.M. Inc. respectfully requests authorization to inject production water into the designated injection interval 4900'-12,400'. Our original authorization to inject fluid into this pool was granted under Case #7206, Order No. 6647, dated 4-13-81, please refer to this document for information required for Sections VI, VIII, X, and IX of this application. At this time, we desire to actually inject from 12,142'-12,400' while labeling a longer injection interval. This authorization would allow us to set a packer within 100' of the labeled injection zone at savings of approximately \$70,000 in tubing costs which would otherwise be incurred. In this application, we demonstrate that the fresh water aquifer, Ogallala, at  $\pm 175'$  is protected; that the interest-holders of correlative rights are not violated and that 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) two strings of cemented casing surrounding the wellbore, (2) injection will be through 4½" tubing lined with plastic to a packer set at  $\pm 4900'$  and then through 5½" casing to the Devonian formation, 12,142'-12,400'. (see completion sketch), (3) required average pump pressures are  $\pm 50$  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.

RECEIVED  
MAR 7 1983  
O.C.D.  
HOBBS OFFICE