



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

NATURAL RESOURCES GROUP
Exploration and Production

May 27, 1981

Expansion of Waterflood Project-
East Vacuum Grayburg/San Andres Unit
Lea County, New Mexico

New Mexico Department of Energy and Minerals (3)
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey
Division Director

Gentlemen:

We respectfully request administrative approval of expansion of waterflood injection well pattern, as provided by Order No. R-5897, Rule No. 9, for the East Vacuum Grayburg/San Andres Unit pressure maintenance project, to convert East Vacuum Grayburg/San Andres Unit, Tract 2150, Well No. 002; East Vacuum Grayburg/San Andres Unit, Tract 2230, Well No. 004; and East Vacuum Grayburg/San Andres Unit, Tract 2738, Well No. 008, to water injection service. The following data is submitted in support of this request:

1. Unit plat reflecting the proposed injection well and injection well project area of each well (Tract 2150, No. 002--Unit P, Section 21, T-17-S, R-35-E; Tract 2230, No. 004--Unit M, Section 22, T-17-S, R-35-E; Tract 2738, No. 008--Unit F, Section 27, T-17-S, R-35-E).
2. Compensated Neutron log (Tract 2738, No. 008) or Borehole Compensated Sonic log (Tract 2150, No. 002 and Tract 2230, No. 004) for the injection well.
3. Diagrammatic sketch of each proposed well, injection tubing, packer, and pressure control elements identifying the San Andres perforated injection intervals.
4. The name of the injection formation of each well is San Andres with injection to be into the well intervals as follows: Tract 2150, No. 002--4510' to 4720'; Tract 2230, No. 004--4540' to 4680'; and Tract 2738, No. 008--4367' to 4598'. The maximum anticipated injection pressure will be no more than 0.2 psi per foot to the top of the perforations with a maximum daily volume anticipated to 2500 bbls for all identified wells.