



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

NATURAL RESOURCES GROUP
Exploration and Production

November 7, 1979

Conversion to Water Injection Service--
East Vacuum Grayburg-San Andres Unit
Tract No. 3456, Well No. 006
Vacuum Grayburg-San Andres Pool
Lea County, New Mexico

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

Attention: Mr. Joe D. Ramey
Division Director

Gentlemen:

We respectfully request administrative approval, as provided by Order No. R5897, Rule No. 9 for the East Vacuum Unit pressure maintenance project, to convert the East Vacuum Grayburg-San Andres Unit, Tract 3456, Well No. 006 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. (Well: Unit D, 34, 17-S, 35-E)
2. Neutron log of the injection well.
3. Diagramatic sketch of the proposed well, injection tubing, packer, and pressure control elements identifying the San Andres perforated injection interval.
4. The name of the injection formation is San Andres with injection to be into the interval 4376-4669 feet. Injection will be by gravity with an anticipated maximum of 500 barrels of produced Grayburg-San Andres water per day.

Your consideration and early advice will be appreciated.

Very truly yours,

T. Harold McLemore
Area Regulation and Proration
Analyst

THM:rja
Attachments

cc: Oil Conservation Division ✓
Hobbs, New Mexico
Attachments w/o Neutron log

RECEIVED

NOV - 8 1979

O.C.D. HOBBS, OFFICE

PHILLIPS PETROLEUM COMPANY

EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

N. M. O. C. D. R - 5897

VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO

TRACT 3456 WELL 006

CONVERSION TO WATER INJECTION STATUS

ANNULUS PRESSURE
GAUGE

PRESSURE CONTROL TYPE: Electronic
Rate-Pressure Controller

BRADENHEAD MONITOR

REDBEDS
260'

RUSTLER
1590'

SALADO
1710'

YATES
2877'

QUEEN
3704'

GRAYBURG
4074'

SAN ANDRES
4350'

P B T D 4741'

TD 4803'

13 3/8 " O. D. @ 354 '

CEMENTED WITH 675 SXS. (776 FT³)
TOP OF CEMENT Circulated

ANNULUS FLUID: Inhibited brine

2 7/8 " O. D. TUBING @ 4350 '
LINING Salta (PVC)

PACKER @ 4350 '

TYPE Baker Model AD-1 (Tension)

TOP 4376 '

SAN ANDRES
PERFORATED INTERVALS

BOTTOM 4669 '

5 1/2 " O. D. @ 4803 '

CEMENTED WITH 1336 SXS. (2512 FT³)
TOP OF CEMENT Circulated