



**PHILLIPS PETROLEUM COMPANY**

ODESSA, TEXAS 79762  
4001 PENBROOK

NATURAL RESOURCES GROUP  
Exploration and Production

September 8, 1980

Conversion to Water Injection Service--  
East Vacuum Grayburg-San Andres Unit,  
Tract No. 3456, Well No. 009,  
Vacuum Grayburg-San Andres Pool  
Lea County, New Mexico

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

Attention: Mr. Joe D. Ramey  
Division Director

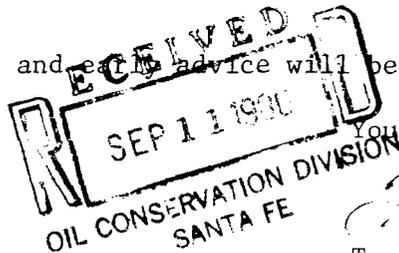
Gentlemen:

We respectfully request administrative approval 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. 009, 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 F, 34, 17-S, 35-E.)
2. Borehole Compensated Sonic Log of the injection well.
3. Diagrammatic 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 4446 to 4600 feet. 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 at 2500 barrels.

A status report on Order No. R5897, Exhibit-C wells was submitted under date of August 19, 1980.

Your consideration and early advice will be appreciated.



Yours very truly,

T. Harold McLemore  
Area Regulation and Proration Supervisor

CAS:skm  
Attachments

cc: Oil Conservation Division  
Hobbs, New Mexico (Attachments without logs)

# PHILLIPS PETROLEUM COMPANY

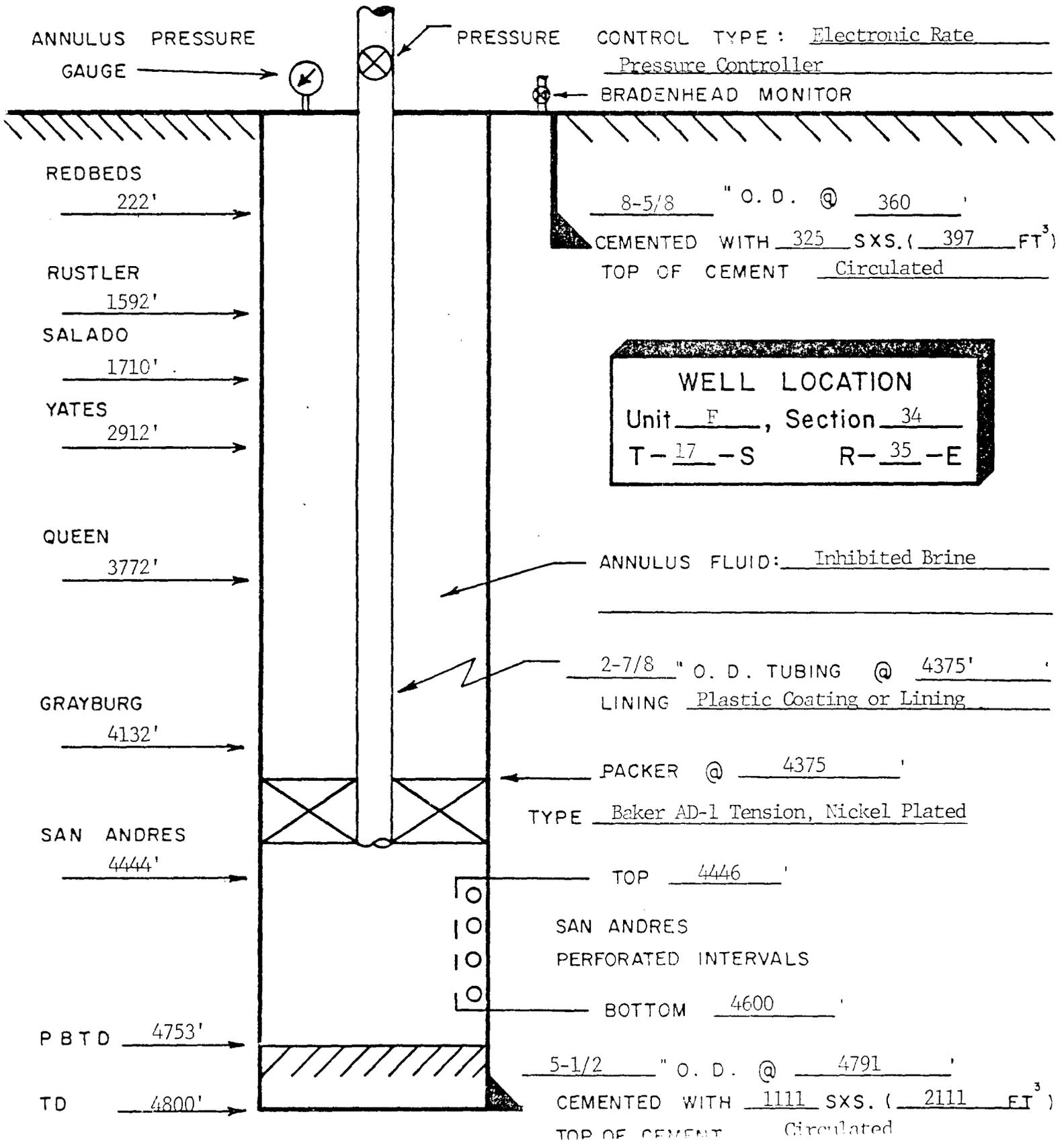
## EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

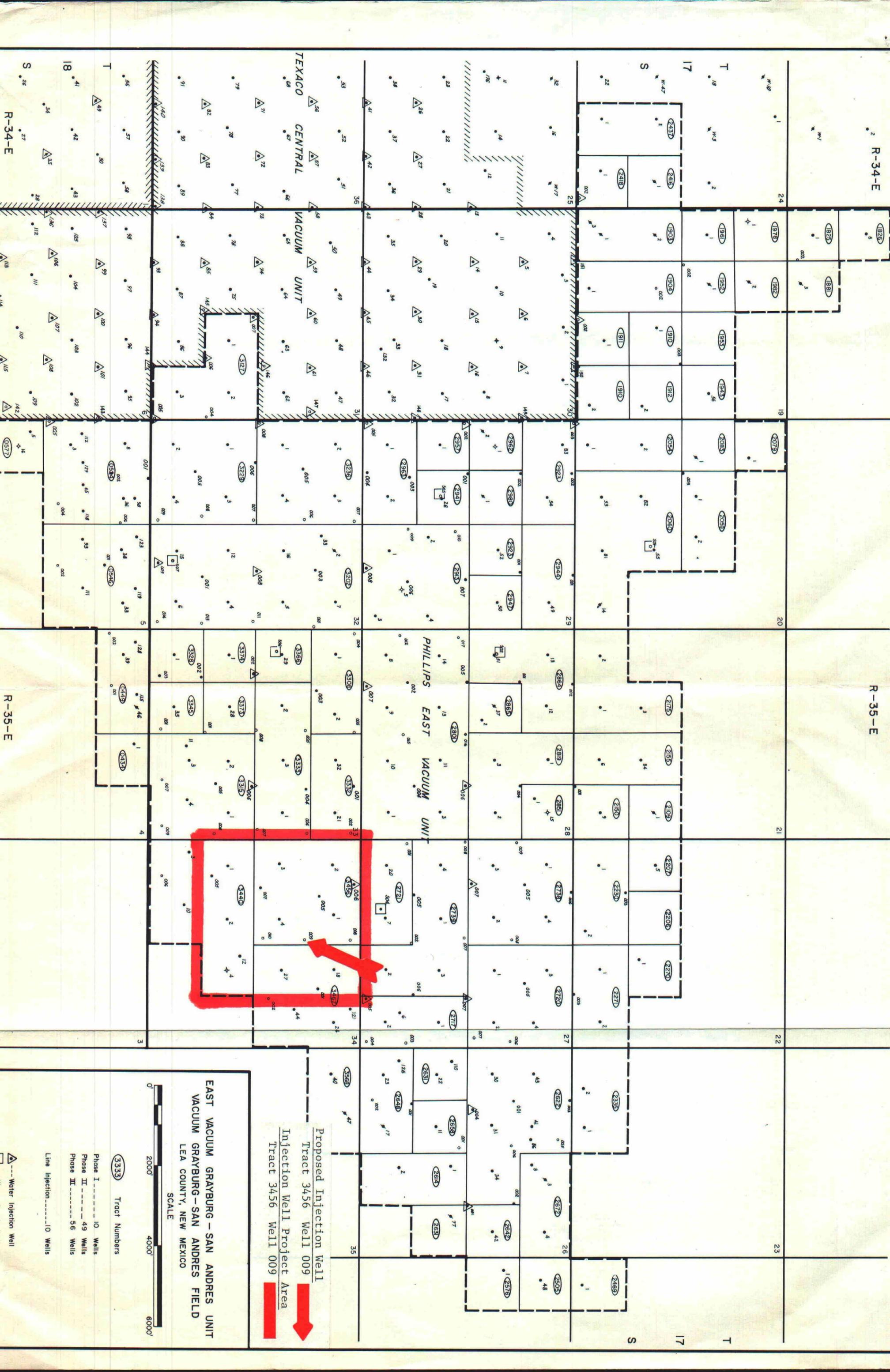
N. M. O. C. D. R - 5897

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

TRACT 3456 WELL 009

### CONVERSION TO WATER INJECTION STATUS





R-34-E

R-35-E

TEXACO CENTRAL VACUUM UNIT

PHILLIPS EAST VACUUM UNIT

EAST VACUUM GRAYBURG - SAN ANDRES UNIT  
 VACUUM GRAYBURG - SAN ANDRES FIELD  
 LEA COUNTY, NEW MEXICO

Proposed Injection Well  
 Tract 3456 Well 009  
 Injection Well Project Area  
 Tract 3456 Well 009



3333 Tract Numbers

- Phase I - IO Wells
- Phase II - 49 Wells
- Phase III - 56 Wells
- Line Injection - 10 Wells

Water Injection Well



# PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762  
4001 PENBROOK

NATURAL RESOURCES GROUP  
Exploration and Production

September 8, 1980

Conversion to Water Injection Service--  
East Vacuum Grayburg-San Andres Unit,  
Tract No. 3202, Well No. 013,  
Vacuum Grayburg-San Andres Pool  
Lea County, New Mexico

New Mexico Dept. of Energy & 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 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 3202, Well No. 013, to water injection service. The following data is submitted in support of this request:

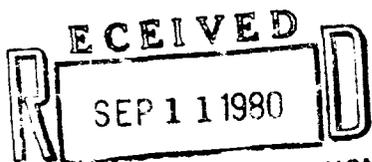
1. Unit plat reflecting the proposed injection well and injection well project area. (Well: Unit P, 32, 17-S, 35-E.)
2. Compensated Acoustic Velocity Gamma Caliper Log of the injection well.
3. Diagrammatic sketch of the proposed well, injection tubing, packer, and pressure control elements identifying the San Andres perforated injection interval.
4. The name of the injection formation is San Andres with injection to be into the interval 4390 to 4650 feet. 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 at 2500 barrels.

A status report on Order No. R5897, Exhibit-C wells was submitted under date of August 19, 1980.

Your consideration and early advice will be appreciated.

Yours very truly,

T. Harold McLemore  
Area Regulation and Proration Supervisor



CAS:skm  
Attachments

cc: Oil Conservation Division  
Hobbs, New Mexico (Attachments without logs)

# PHILLIPS PETROLEUM COMPANY

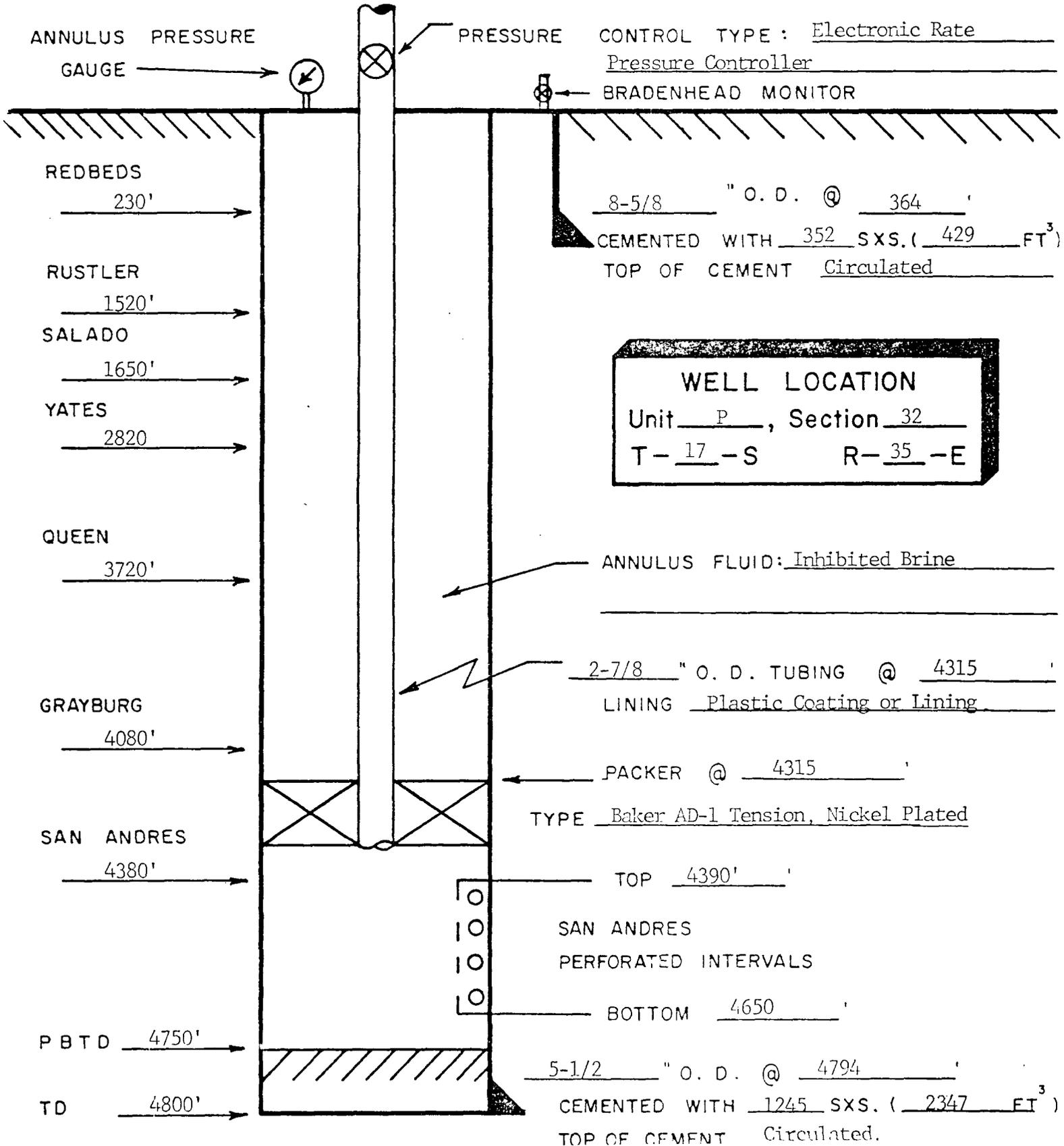
## EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

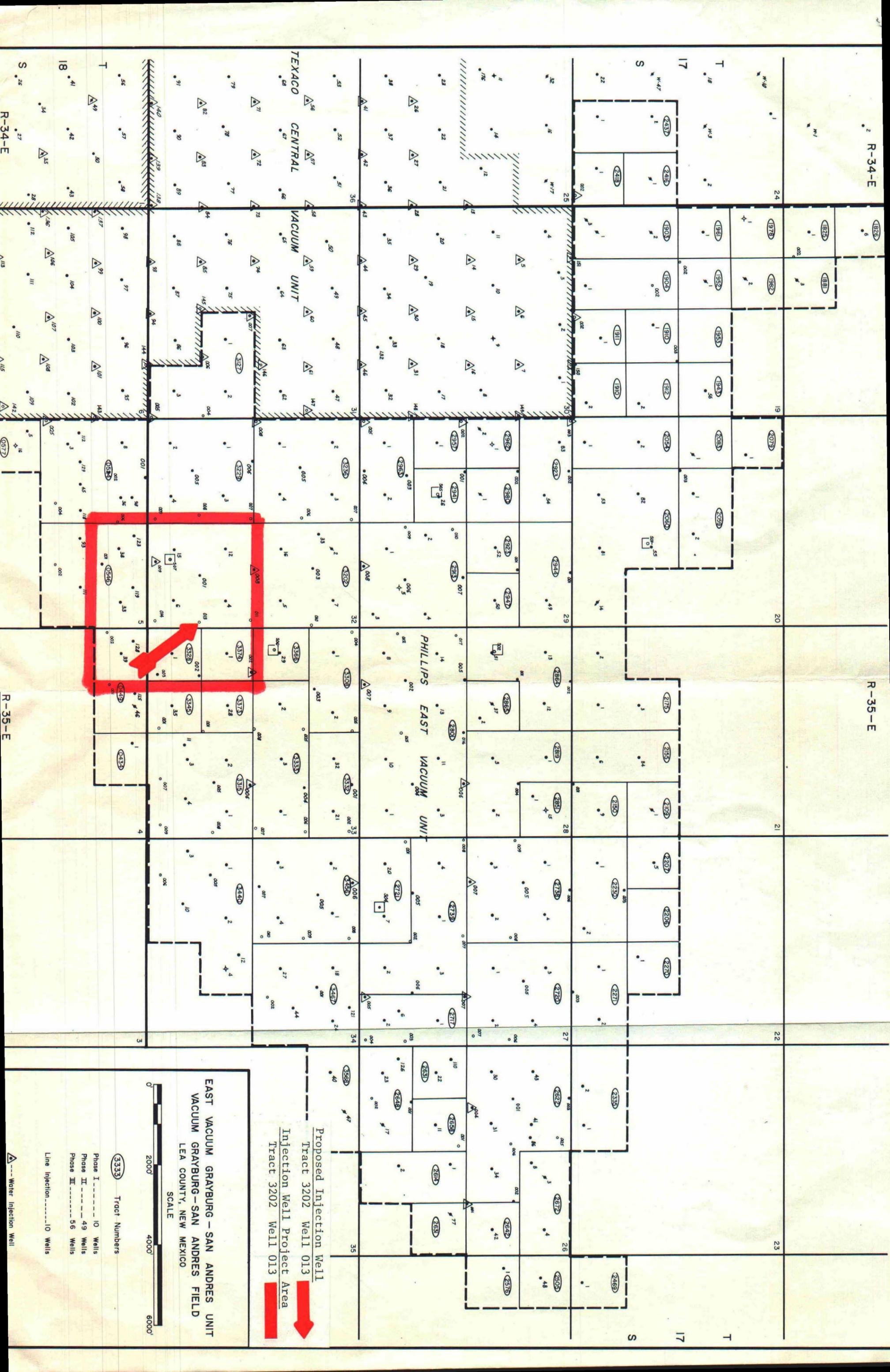
N. M. O. C. D. R-5897

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

TRACT 3202 WELL 013

### CONVERSION TO WATER INJECTION STATUS





R-34-E

R-34-E

R-35-E

R-35-E

**EAST VACUUM GRAYBURG - SAN ANDRES UNIT**  
**VACUUM GRAYBURG - SAN ANDRES FIELD**  
 LEA COUNTY, NEW MEXICO

SCALE  
 0 2000' 4000' 6000'

3333 Tract Numbers

Phase I - - - - - 10 Wells  
 Phase II - - - - - 49 Wells  
 Phase III - - - - - 56 Wells

Line Injection - - - - - 10 Wells

▲ Water Injection Well

Proposed Injection Well  
 Tract 3202 Well 013  
 Injection Well Project Area  
 Tract 3202 Well 013



# PHILLIPS PETROLEUM COMPANY

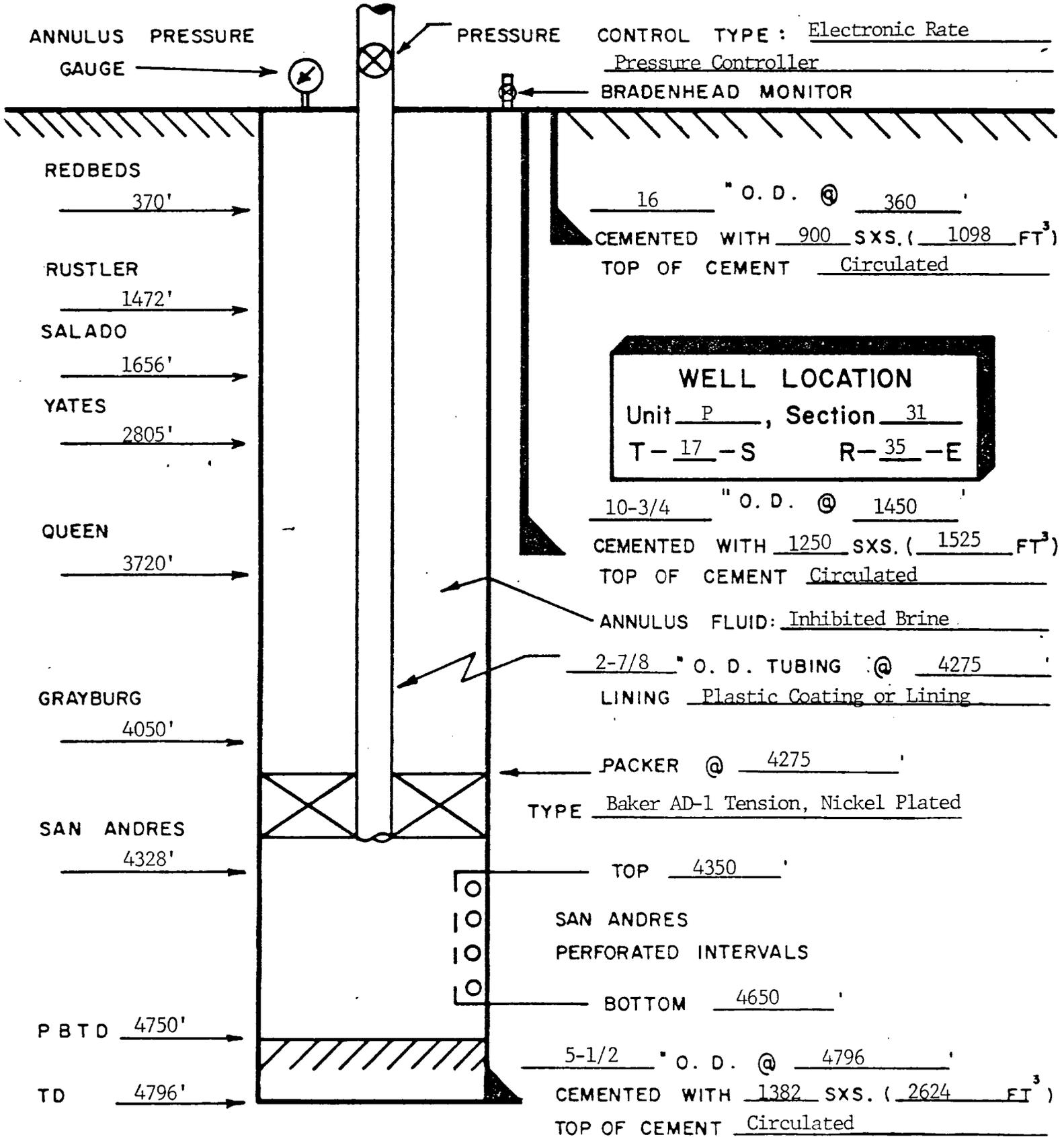
## EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

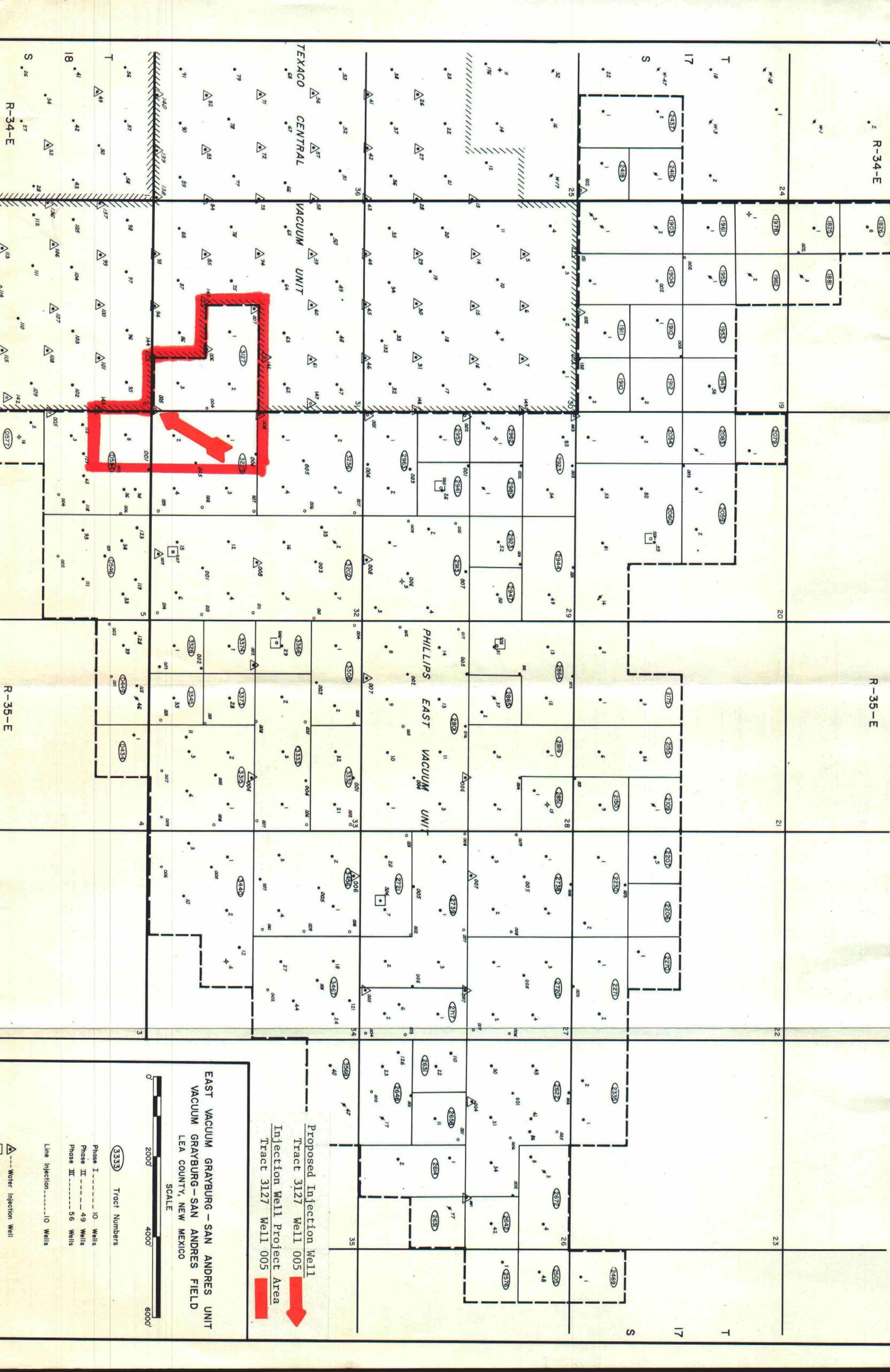
N. M. O. C. D. R-5897

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

TRACT 3127 WELL 005

### CONVERSION TO WATER INJECTION STATUS





**EAST VACUM GRAYBURG - SAN ANDRES UNIT  
VACUM GRAYBURG - SAN ANDRES FIELD  
LEA COUNTY, NEW MEXICO**



33333 Tract Numbers

- Phase I - - - - - 10 Wells
- Phase II - - - - - 49 Wells
- Phase III - - - - - 56 Wells
- Line Injection - - - - - 10 Wells

Proposed Injection Well  
Tract 3127 Well 005  
Injection Well Project Area  
Tract 3127 Well 005





# PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762  
4001 PENBROOK

NATURAL RESOURCES GROUP  
Exploration and Production

September 9, 1980

Conversion to Water Injection Service--  
East Vacuum Grayburg-San Andres Unit,  
Tract No. 3236, Well No. 006,  
Vacuum Grayburg-San Andres Pool  
Lea County, New Mexico

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

Attention: Mr. Joe D. Ramey  
Division Director

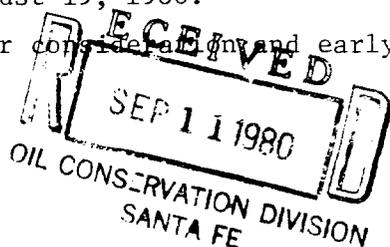
Gentlemen:

We respectfully request administrative approval 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 3236, 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 F, 32, 17-S, 35-E.)
2. Compensated Acoustic Velocity Gamma Caliper Log of the injection well.
3. Diagrammatic 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 4383 to 4660 feet. 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 at 2500 barrels.

A status report on Order No. R5897, Exhibit-C wells was submitted under date of August 19, 1980.

Your consideration and early advice will be appreciated.



Yours very truly,

T. Harold McLemore  
Area Regulation and Proration Supervisor

CAS:skm  
Attachments

cc: Oil Conservation Division  
Hobbs, New Mexico (Attachments without logs)

PHILLIPS PETROLEUM COMPANY

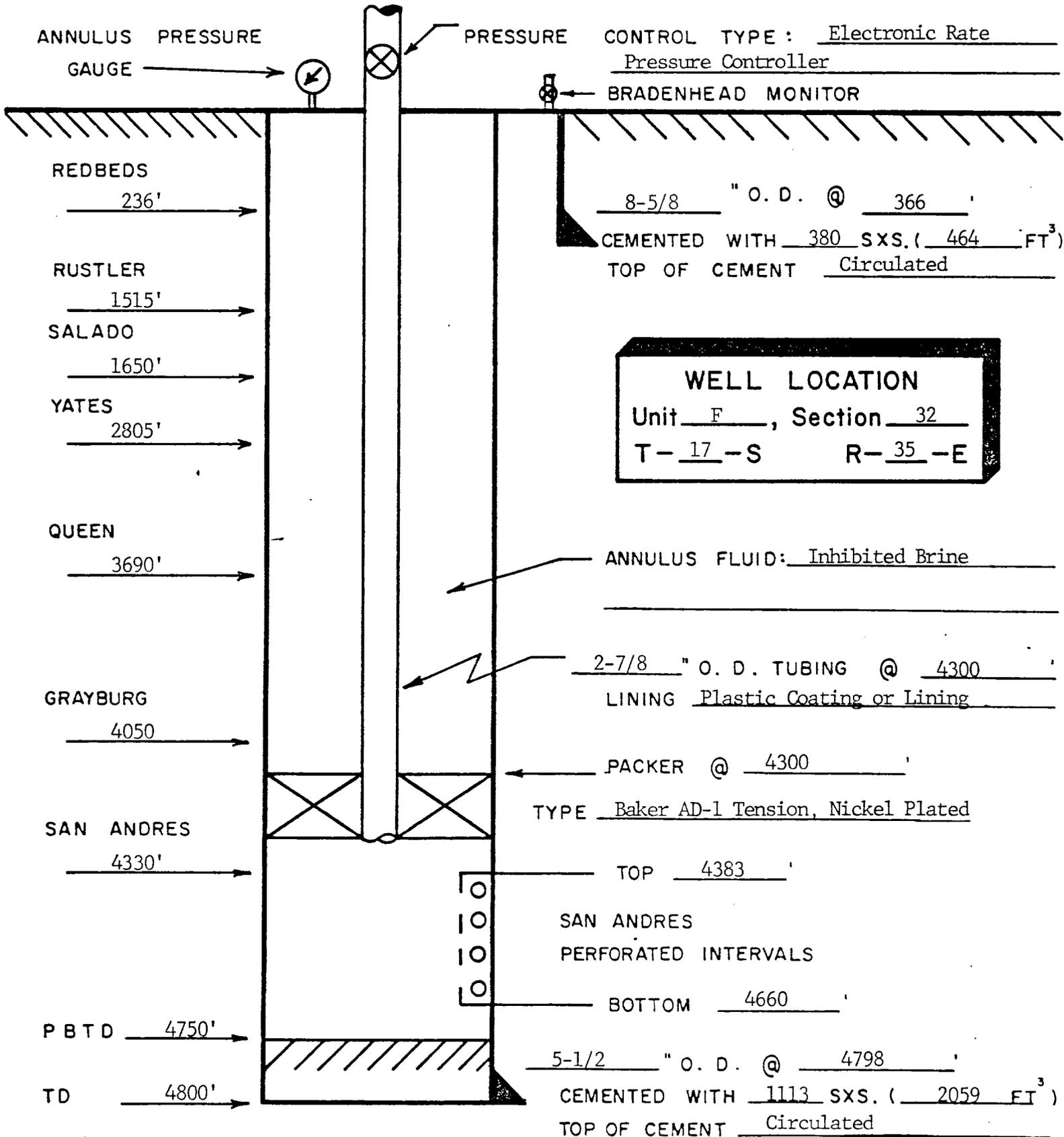
EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

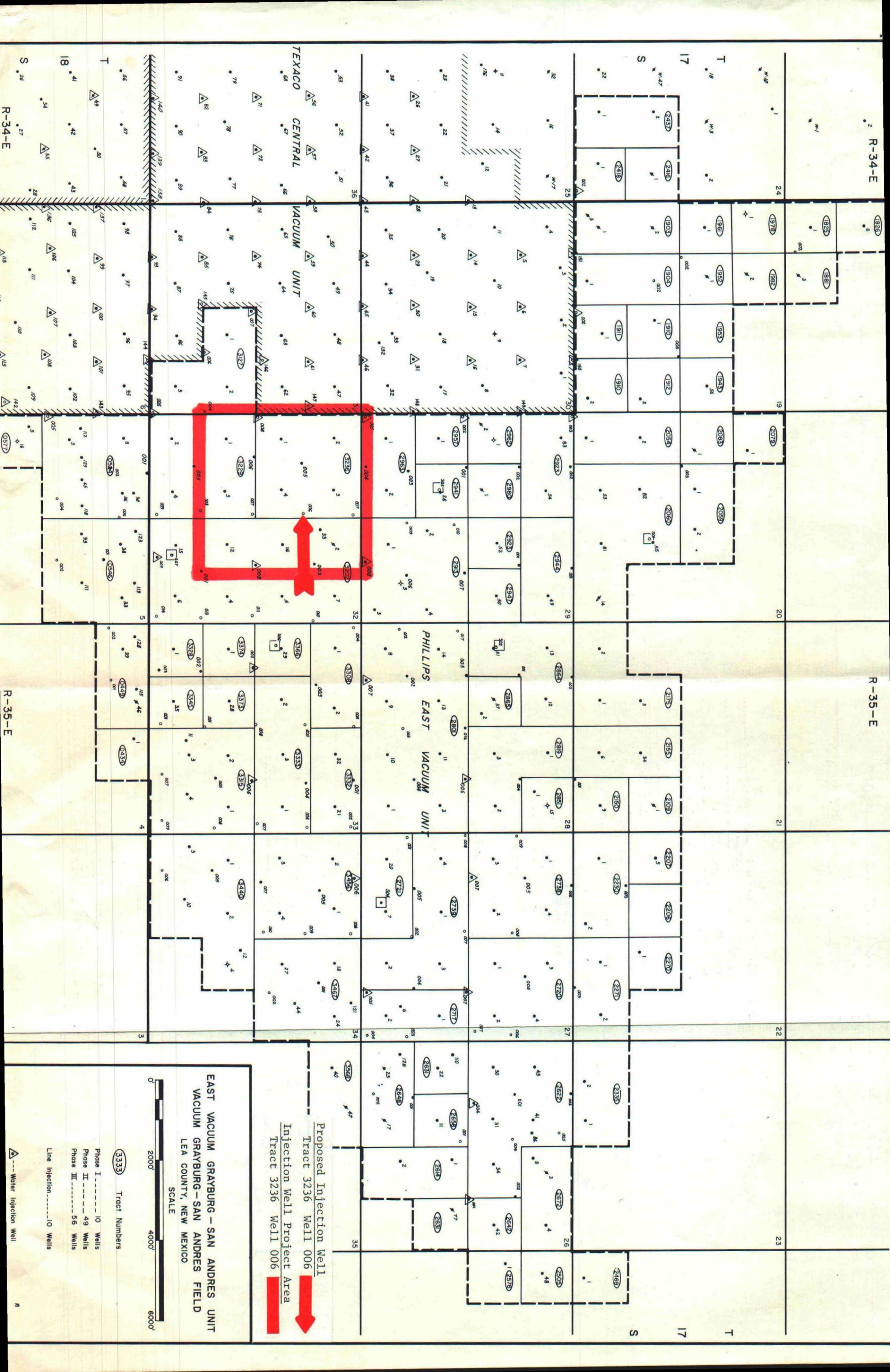
N. M. O. C. D. R - 5897

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

TRACT 3236 WELL 006

CONVERSION TO WATER INJECTION STATUS





R-34-E

R-35-E

TEXACO CENTRAL VACUUM UNIT

PHILLIPS EAST VACUUM UNIT

EAST VACUUM GRAYBURG - SAN ANDRES UNIT  
 VACUUM GRAYBURG - SAN ANDRES FIELD  
 LEA COUNTY, NEW MEXICO



3333 Tract Numbers

Phase I - 10 Wells

Phase II - 49 Wells

Phase III - 56 Wells

Line Injection - 10 Wells

Water Injection Well

Proposed Injection Well  
 Tract 3236 Well 006  
 Injection Well Project Area  
 Tract 3236 Well 006



**PHILLIPS PETROLEUM COMPANY**

ODESSA, TEXAS 79762  
4001 PENBROOK

NATURAL RESOURCES GROUP  
Exploration and Production

September 9, 1980

Waiver of Objection for Conversion  
to Water Injection--East Vacuum  
Grayburg-San Andres Unit,  
Tract 3127, Well No. 005,  
Lea County, New Mexico

Texaco, Inc.  
Box 728  
Hobbs, New Mexico 88240

Attention: Mr. John V. Gannon  
District Superintendent

Gentlemen:

We respectfully request your waiver of objections for one cooperative line injection well to be equipped for injection service per attached schematic. East Vacuum Grayburg-San Andres Unit, Tract 3127, Well No. 005, is located (Unit P) 10' FSL and 10' FEL, Section 31, T-17-S, R-35-E, Lea County, New Mexico. A plat is attached showing the location of this well. This is an unorthodox location as approved by Administrative Order No. NSL 1208.

For your convenience, we are attaching three copies of a waiver for your execution. Please forward one executed copy direct to the Oil Conservation Division, Santa Fe, New Mexico, furnish this office with one executed copy, and retain one copy for your file.

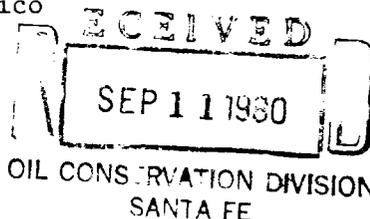
Your early consideration and reply will be appreciated. If questions arise, please contact Mike Brownlee--telephone Odessa, (915) 367-1413.

Very truly yours,

T. Harold McLemore  
Area Regulation and Proration Supervisor

CAS:skm  
Attachments

cc: ✓ Oil Conservation Division  
Santa Fe, New Mexico



September 9, 1980

WAIVER OF OBJECTIONS

Phillips Petroleum Company  
Conversion to Water Injection Service--  
East Vacuum Grayburg-San Andres Unit,  
Tract 3127, Well No. 005,  
Lea County, New Mexico

Texaco, Inc., as an offset operator, hereby waives any and all objections to the proposal of Phillips Petroleum Company for one cooperative line injection well to be equipped for injection service on their East Vacuum Grayburg-San Andres Unit, Tract 3127, Well No. 005, located (Unit P) 10' FSL and 10' FEL, Section 31, T-17-S, R-35-E, Lea County, New Mexico.

Company: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

CAS:skm