



# PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762  
4001 PENBROOK

NATURAL RESOURCES GROUP  
Exploration and Production

October 6, 1981

Conversion to Water Injection Service--  
East Vacuum Grayburg-San Andres Unit,  
Lea County, New Mexico

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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

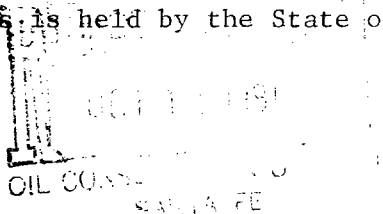
Gentlemen:

We respectfully request administrative approval of expansion of waterflood injection well pattern, as provided by Order No. R-5897, Rule No. 9, for the East Vacuum Unit pressure maintenance project, to convert the following 11 wells to water injection service:

<u>TRACT</u>	<u>WELL NO.</u>	<u>TRACT</u>	<u>WELL NO.</u>
1903	004	2060	001
1904	003	2416	002
1910	004	2437	003
1912	004	2944	002
1953	002	2980	003
1978	002		

The following data is submitted in support of this request:

1. Unit plats reflecting the respective injection well and its project area.
2. Diagrammatic sketches of each proposed well, injection tubing, packer, pressure control elements, and identifying the San Andres perforated injection interval.
3. The name of the injection formation is San Andres with injection to be into an approximate well interval 4598' to 4681'. 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 water per day per well.
4. Certified copy of Public Notice by newspaper.
5. List of affected offset operators and surface tenants. (Surface ownership on all tracts is held by the State of New Mexico.)



Conversion to Water Injection--  
East Vacuum Grayburg-San Andres Unit

Page: 2

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6. Notice has been given by certified mail, to those entities in Item Five.  
(Copies of certified mailings are attached.)

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days.

Your consideration and early advice will be appreciated.

Very truly yours,



T. Harold McLemore  
Regulation and Proration Supervisor

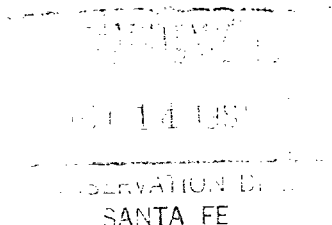
THM:mb  
Attachments

cc: Oil Conservation Division  
Hobbs, New Mexico--w/attachments

Office of the Land Commissioner, State of New Mexico

Surface Tenants--attached detail

Offset Operator--attached detail



LEASE OWNERS & TENANTS

Office of the Land Commissioner  
State of New Mexico (Lease Owner)  
P.O. Box 1148  
Santa Fe, New Mexico 87501

Giles Lee (Lee Ranch (Tenant)  
West Star Rout, Box 478  
Lovington, New Mexico 88260

Tracts Nos.: 2060, 2416, 2437, 2944, 2980

Scharbauer Cattle Co. (Tenant)  
P.O. Box 1471  
Midland, Texas 79701

Tracts Nos: 1903, 1904, 1910, 1912, 1953, 1978

RECEIVED  
OIL & GAS  
SANTA FE

Phillips Petroleum Company  
East Vacuum Gb/SA Unit  
Water Injection Well Offsets

Mobil Producing Texas & New Mexico  
Nine Greenway Plaza, Suite 2700  
Houston, Texas 77046

Pennzoil Company  
Box 2967  
Houston, Texas 77001

Pennzoil Company & Wolf's Head  
Box 2967  
Houston, Texas 77001

Penroc Oil Company  
Drawer 831  
Midland, Texas 79702

Shell Oil Company  
Box 991  
Houston, Texas 77001

Texaco Incorporated  
Box 52332  
Houston, Texas 77052



# AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

1, \_\_\_\_\_

ROBERT L. SUMMERS

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not in a supplement thereof for a period

of \_\_\_\_\_

ONE DAY weeks.

Beginning with the issue dated

AUGUST 12, 19 81

and ending with the issue dated

AUGUST 12, 19 81

*Robert L. Summers*  
Publisher.

Sworn and subscribed to before

me this 12TH day of

AUGUST, 19 81

\_\_\_\_\_  
Notary Public.

My Commission expires \_\_\_\_\_

\_\_\_\_\_, 19 \_\_\_\_\_  
(Seal)

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

## LEGAL NOTICE

August 12, 1981

NOTICE is hereby given of the application of Phillips Petroleum Company, Attention: B. Z. Parker, Manager of Operations, 4001 Penbrook Street, Odessa, Texas 79762 — telephone (915) 367-1260, to the Oil Conservation Division, New Mexico Energy & Minerals Department, for approval of the following injection wells for the purpose of pressure maintenance and enhanced recovery.

Well Nos.: Tract 1903 No. 004, Tract 1904 No. 003, Tract 1910 No. 004,  
Tract 1912 No. 004, Tract 1953 No. 002, Tract 1978 No. 002,  
Tract 2060 No. 001, Tract 2416 No. 002, Tract 2437 No. 003,  
Tract 2944 No. 002, and Tract 2980 No. 003.

Lease/Unit Name: East Vacuum Grayburg/San Andres Unit.

Location: Sec. 19, T-17-S, R-35-E:

Tract 1903 No. 004, Tract 1904 No. 003, Tract 1910 No. 004,  
Tract 1912 No. 004, Tract 1953 No. 002, Tract 1978 No. 002.

Sec 20, T-17-S, R-35-E:

Tract 2060 No. 001

Sec. 24, T-17-S, R-35-E:

Tract 2416 No. 002, Tract 2437 No. 003.

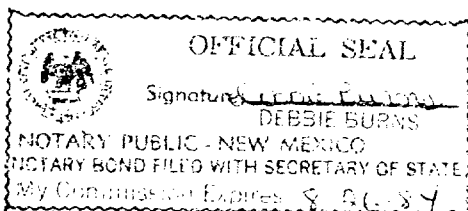
Sec. 29, T-17-S, R-35-E:

Tract 2944 No. 002, Tract 2980 No. 003.

NMPM, Lea County,

New Mexico.

The injection formation is Grayburg/San Andres at a depth of approximately 4637 feet below the surface of the ground. Expected maximum injection rate is 300 barrels per day, and expect maximum injection pressure is 900 pounds per square inch. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days.



OIL CONSERVATION DIVISION  
DISTRICT I

OIL CONSERVATION DIVISION  
P. O. BOX 2088  
SANTA FE, NEW MEXICO 87501

DATE October 14, 1981

RE: Proposed MC \_\_\_\_\_  
Proposed DHC \_\_\_\_\_  
Proposed NSL \_\_\_\_\_  
Proposed NSP \_\_\_\_\_  
Proposed SWD \_\_\_\_\_  
Proposed WFX \_\_\_\_\_  
Proposed PMX X \_\_\_\_\_

Gentlemen:

I have examined the application for the:

Phillips Pet. Co. East Vacuum Gray., SA Unit	**See Below
Operator	Lease and Well No. Unit, S - T - R

and my recommendations are as follows:

O.K.--L.A.C.

\*\*Tr. 1903 #4, Tr. 1904 #3, Tr. 1910 #4, Tr. 1912 #4, Tr. 1953 #2, Tr. 1978 #2,  
Tr. 2060 #1, Tr. 2416 #2, Tr. 2437 #3, Tr. 2944 #2, Tr. 2980 #3

Yours very truly,

*Leslie V. Clement*

/mc

P01 2672886

## RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		Shell Oil Co.	
STREET AND NO.		Box 991	
P.O. STATE AND ZIP CODE		Houston, TX 77001	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			
Attn: Harold McLemore			

PS Form 3800, Apr. 1976

P01 2672884

## RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		Giles Lee (Lee Ranch)	
STREET AND NO.		West Star Route, Box 478	
P.O. STATE AND ZIP CODE		Houston, TX 77060	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			
Attn: H. McLemore			

PS Form 3800, Apr. 1976

P01 2672882

## RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		New Mexico Dept. of Energy & Conservation	
STREET AND NO.		P.O. Box 1980	
P.O. STATE AND ZIP CODE		Albuquerque, New Mexico 88240	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			
Attn: H. McLemore			

PS Form 3800, Apr. 1976

P01 2672887

## RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		Lennox Oil Co.	
STREET AND NO.		Box 831	
P.O. STATE AND ZIP CODE		Midland, TX 79702	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			
Attn: H. McLemore			

PS Form 3800, Apr. 1976

P01 2672885

## RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		Tetaco Incorporated	
STREET AND NO.		Box 52332	
P.O. STATE AND ZIP CODE		Houston, TX 77052	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			
Attn: H. McLemore			

PS Form 3800, Apr. 1976

P01 2672883

## RECEIPT FOR CERTIFIED MAIL

NO INSURANCE COVERAGE PROVIDED—  
NOT FOR INTERNATIONAL MAIL  
(See Reverse)

SENT TO		Scharbauer Cattle Co.	
STREET AND NO.		P.O. Box 1471	
P.O. STATE AND ZIP CODE		Midland, TX 79701	
POSTAGE		\$	
CONSULT POSTMASTER FOR FEES	OPTIONAL SERVICES	CERTIFIED FEE	¢
		SPECIAL DELIVERY	¢
		RESTRICTED DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED	¢
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY	¢
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY	¢
TOTAL POSTAGE AND FEES		\$	
POSTMARK OR DATE			
Attn: H. McLemore			

PS Form 3800, Apr. 1976

P01 2672890  
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

PS Form 3800, Apr. 1976

SENT TO <i>Pennzoil Co.</i>		
STREET AND NO. <i>Bx. 2967</i>		
P.O., STATE AND ZIP CODE <i>Houston, Tx. 77001</i>		
POSTAGE \$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	
	SPECIAL DELIVERY	
	RESTRICTED DELIVERY	
	OPTIONAL SERVICES RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY
TOTAL POSTAGE AND FEES \$		
POSTMARK OR DATE <i>Att'n: H. Mc Lemore</i>		

P01 2672891  
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

PS Form 3800, Apr. 1976

SENT TO <i>Office of Land Commissioners State of New Mexico</i>		
STREET AND NO. <i>Bx. 1148</i>		
P.O., STATE AND ZIP CODE <i>Santa Fe, New Mex. 87501</i>		
POSTAGE \$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	
	SPECIAL DELIVERY	
	RESTRICTED DELIVERY	
	OPTIONAL SERVICES RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY
TOTAL POSTAGE AND FEES \$		
POSTMARK OR DATE <i>Att'n: H. Mc Lemore</i>		

P01 2672888  
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

PS Form 3800, Apr. 1976

SENT TO <i>Pennzoil Co. &amp; Moly's Head</i>		
STREET AND NO. <i>Bx. 2967</i>		
P.O., STATE AND ZIP CODE <i>Houston, Tx. 77001</i>		
POSTAGE \$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	
	SPECIAL DELIVERY	
	RESTRICTED DELIVERY	
	OPTIONAL SERVICES RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY
TOTAL POSTAGE AND FEES \$		
POSTMARK OR DATE <i>Att'n: H. Mc Lemore</i>		

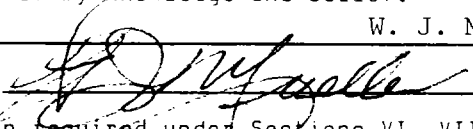
P01 2672889  
**RECEIPT FOR CERTIFIED MAIL**

NO INSURANCE COVERAGE PROVIDED—  
 NOT FOR INTERNATIONAL MAIL  
 (See Reverse)

PS Form 3800, Apr. 1976

SENT TO <i>Mobil Producing Int. &amp; W. I.</i>		
STREET AND NO. <i>One Greenway Plaza, Suite 2700</i>		
P.O., STATE AND ZIP CODE <i>Houston, Tx. 77046</i>		
POSTAGE \$		
CONSULT POSTMASTER FOR FEES	CERTIFIED FEE	
	SPECIAL DELIVERY	
	RESTRICTED DELIVERY	
	OPTIONAL SERVICES RETURN RECEIPT SERVICE	SHOW TO WHOM AND DATE DELIVERED
		SHOW TO WHOM, DATE, AND ADDRESS OF DELIVERY
		SHOW TO WHOM AND DATE DELIVERED WITH RESTRICTED DELIVERY
		SHOW TO WHOM, DATE AND ADDRESS OF DELIVERY WITH RESTRICTED DELIVERY
TOTAL POSTAGE AND FEES \$		
POSTMARK OR DATE <i>Att'n: H. Mc Lemore</i>		

APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☒ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: Phillips Petroleum Company  
Address: Room 401, 4001 Penbrook  
Contact party: T. Harold McLemore Phone: (915) 367-1257
- III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ yes ☐ no  
If yes, give the Division order number authorizing the project R5897.
- \*V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- \*VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- \*\*VII. Attach data on the proposed operation, including:  
500 2000  
1. Proposed average and maximum daily rate and volume of fluids to be injected;  
2. Whether the system is open or closed;  
3. Proposed average and maximum injection pressure: 900  
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and  
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any. Please see reverse side.
- \* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
- \* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification  
I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  
Name: W. J. MUELLER Title: SENIOR ENGINEERING SPECIALIST  
Signature:  Date: OCTOBER 6, 1981
- \*\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. Examiner Hearing, October 25, 1978.

Case No. 6367, Order R-5897

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

## III. WELL DATA

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

## XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

IX. The standard stimulation procedure will be applied, in general, to all injection wells:

- (1) Acidize with approx. 200 bbls acid per foot of perforations.
- (2) Fracture with approx. 1500# sand for every foot of perforations.

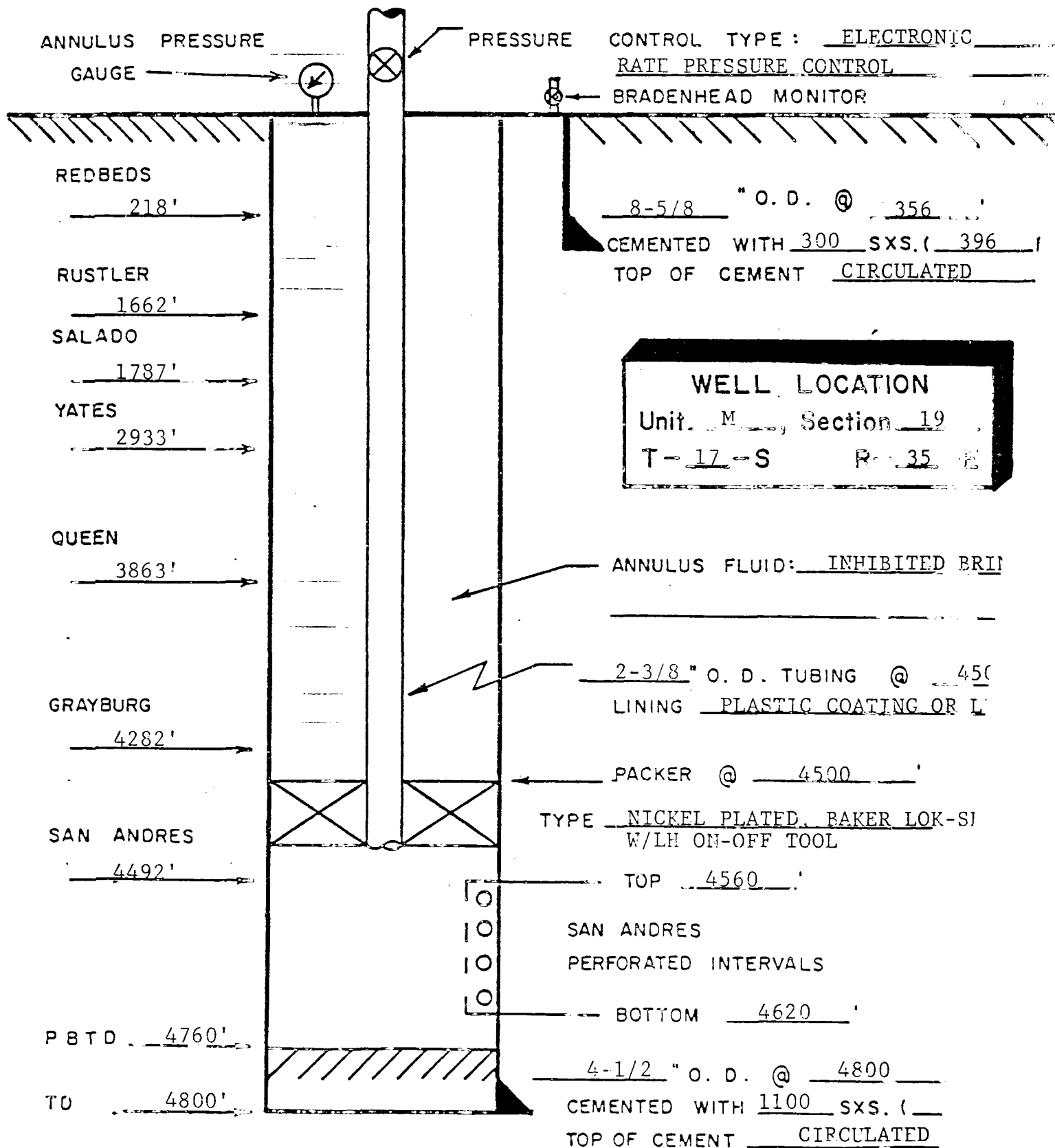
WELL OFFSET OPERATORS:  
TEXACO  
MOBIL

# PHILLIPS PETROLEUM COMPANY

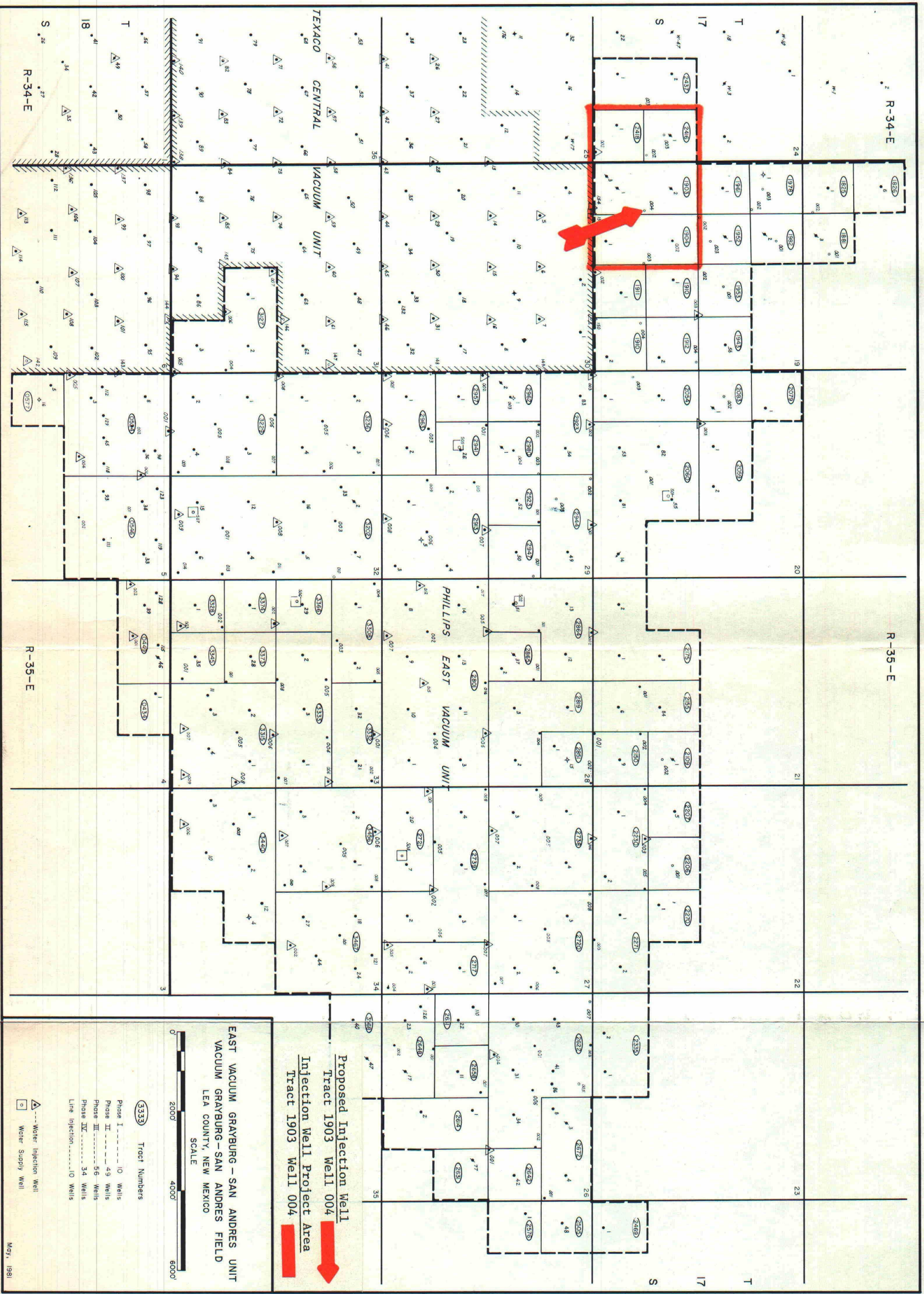
EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT  
N. M. O. C. D. R-5897

VACUUM GRAYBURG — SAN ANDRES POOL, LEA COUNTY, NEW MEXICO  
TRACT 1903 WELL 004

CONVERSION TO WATER INJECTION STATUS







Proposed Injection Well  
Tract 1903 Well 004  
Injection Well Project Area  
Tract 1903 Well 004

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
  - Phase IV ----- 34 Wells
  - Line Injection ----- 10 Wells

- Water Injection Well
- Water Supply Well

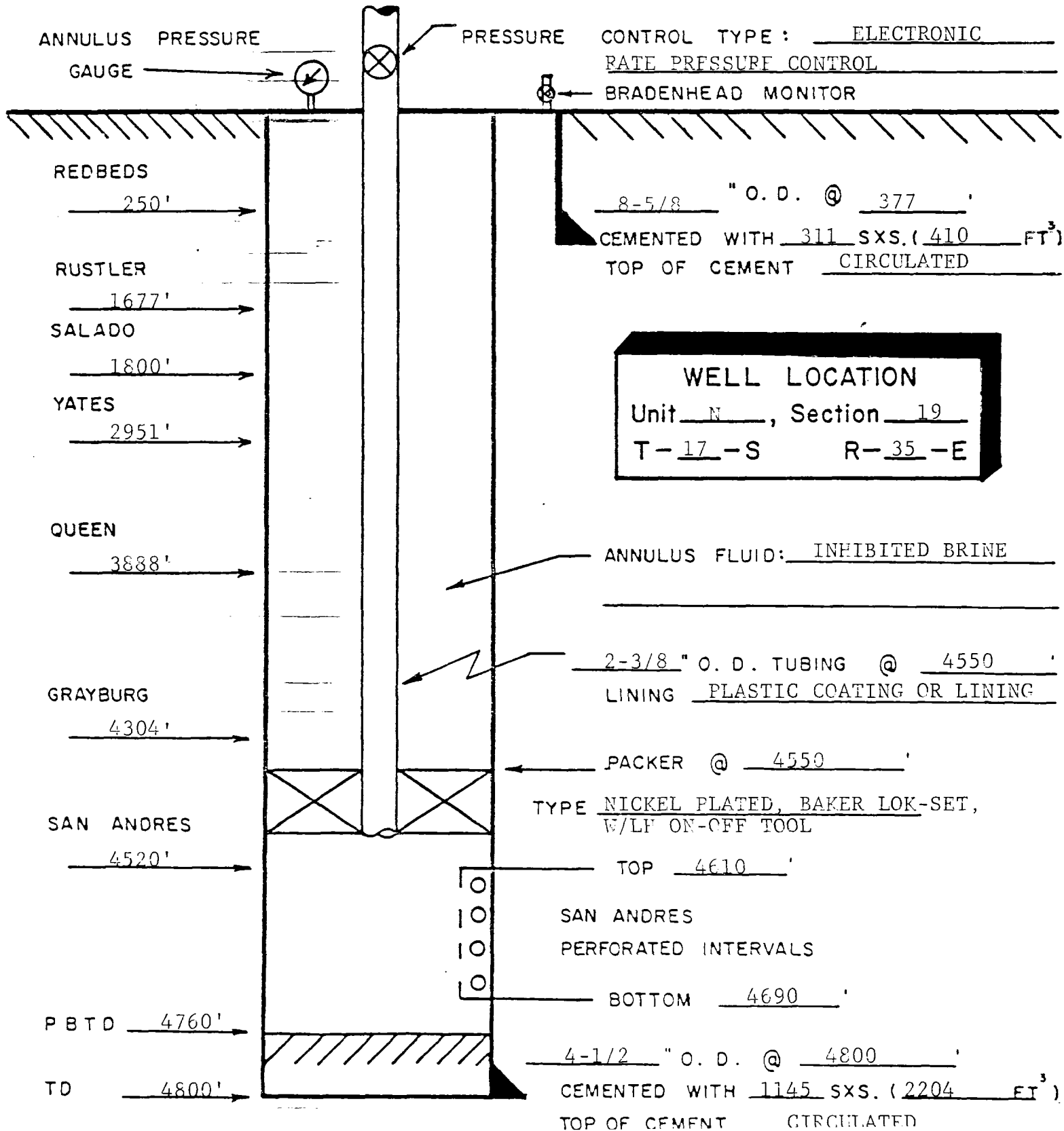


WELL OFFSET OPERATOR:  
TEXACO

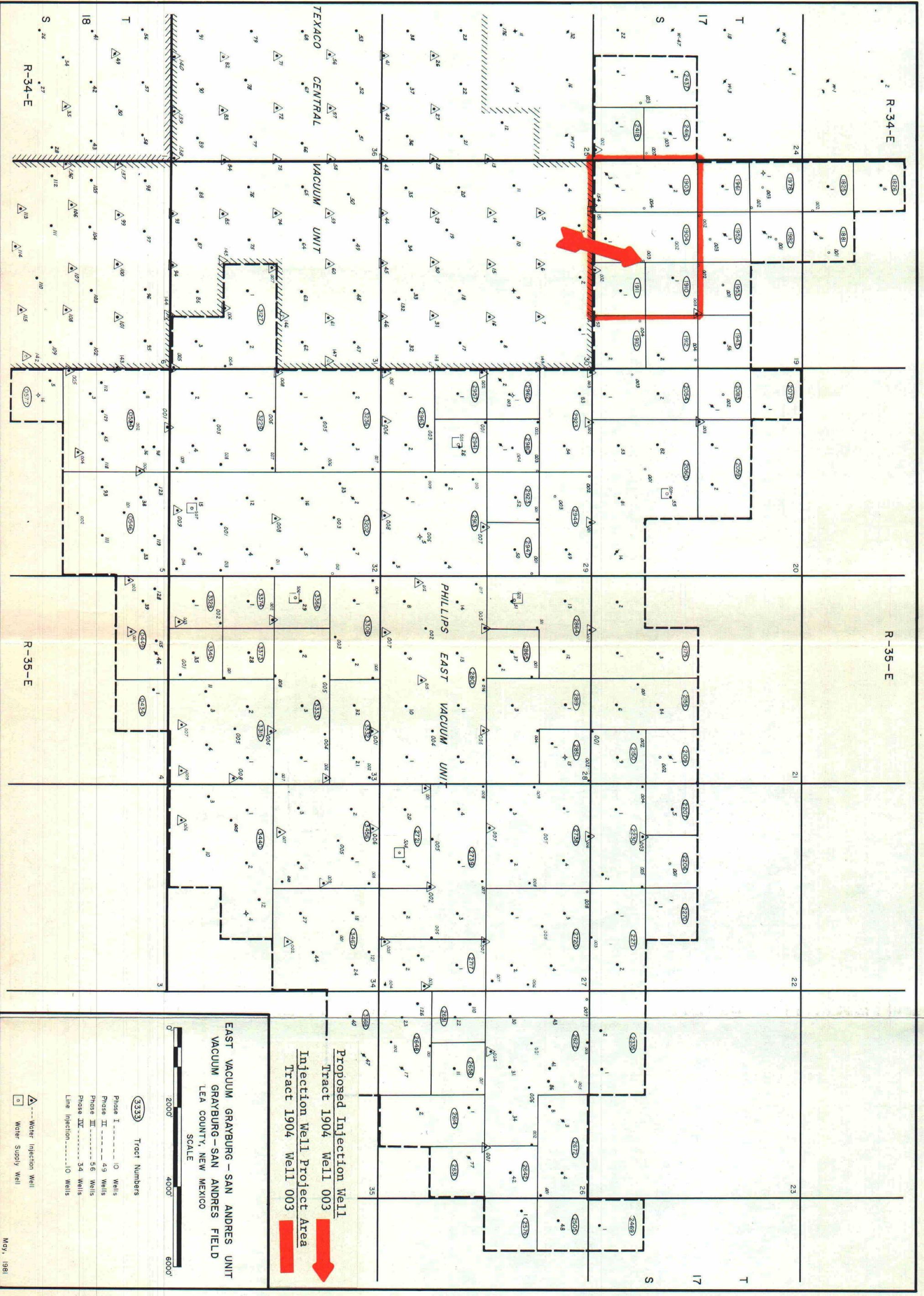
# PHILLIPS PETROLEUM COMPANY

EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT  
N. M. O. C. D. R - 5897  
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO  
TRACT 1904 WELL 003

CONVERSION TO WATER INJECTION STATUS







Proposed Injection Well  
Tract 1904 Well 003  
Injection Well Project Area

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
- Phase IV - 34 Wells
- Line Injection - 10 Wells
- Water Injection Well
- Water Supply Well



WELL OFFSET OPERATOR:

TEXACO

# PHILLIPS PETROLEUM COMPANY

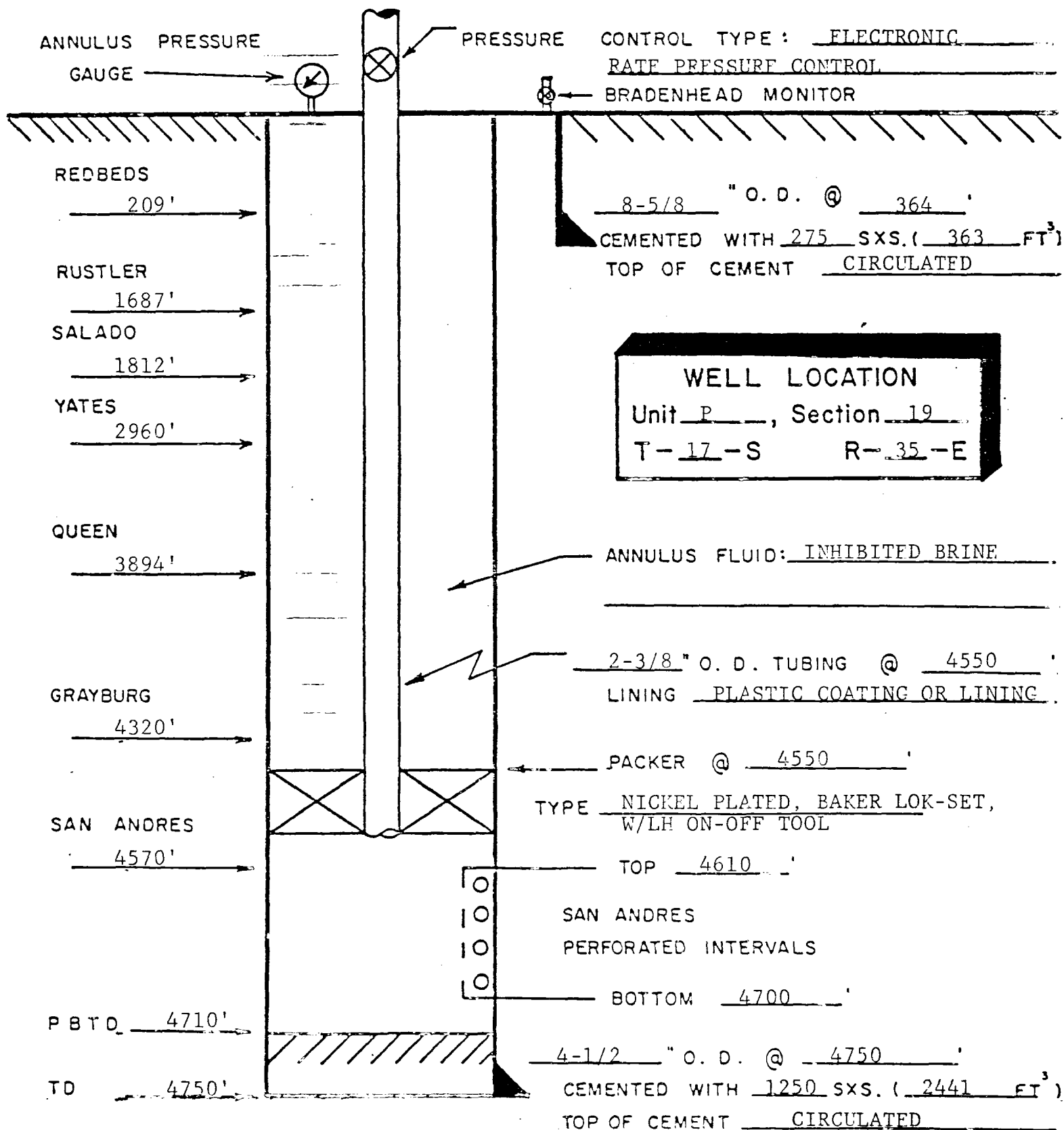
## EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

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

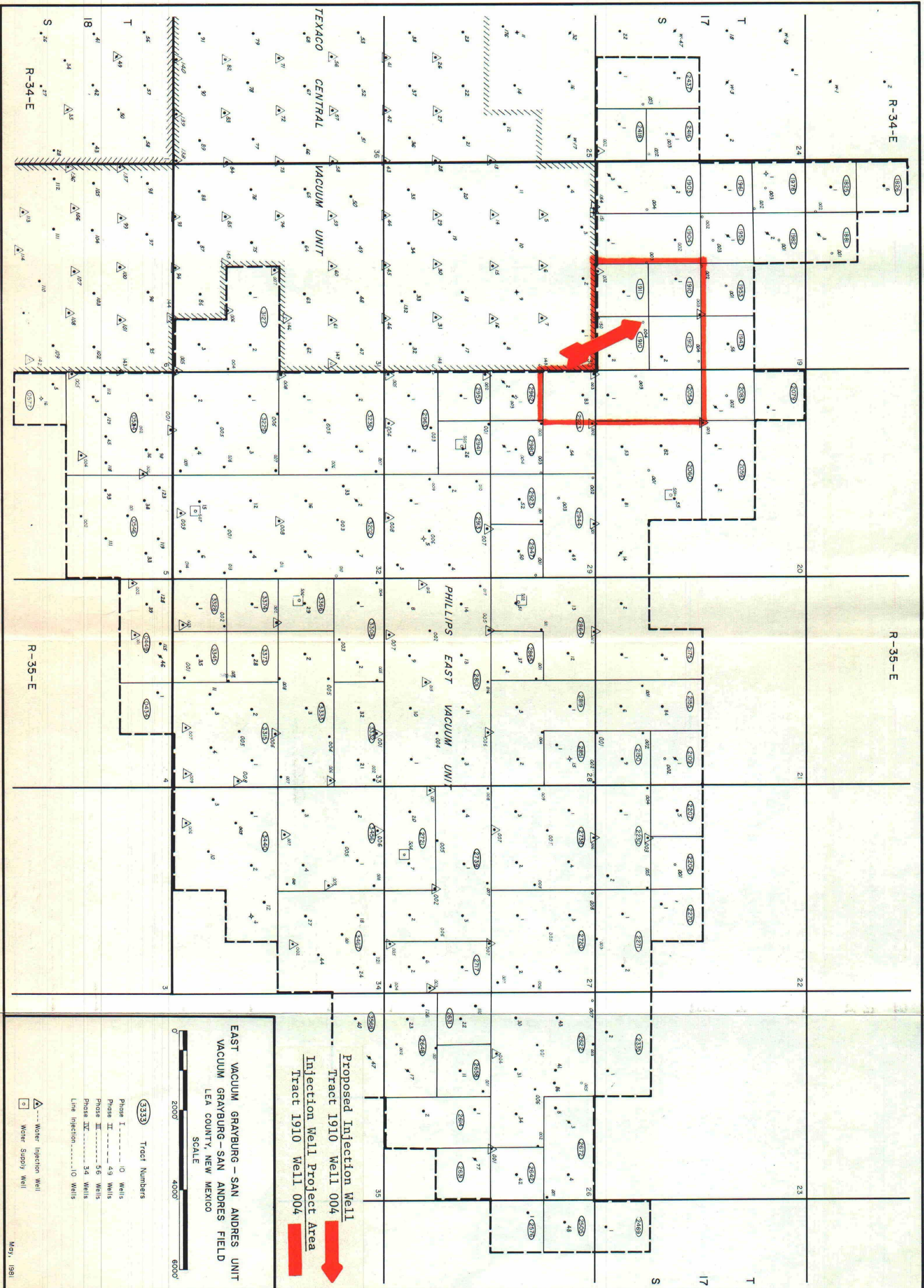
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO

TRACT 1910 WELL 004

CONVERSION TO WATER INJECTION STATUS









WELL OFFSET OPERATOR:  
SHELL

# PHILLIPS PETROLEUM COMPANY

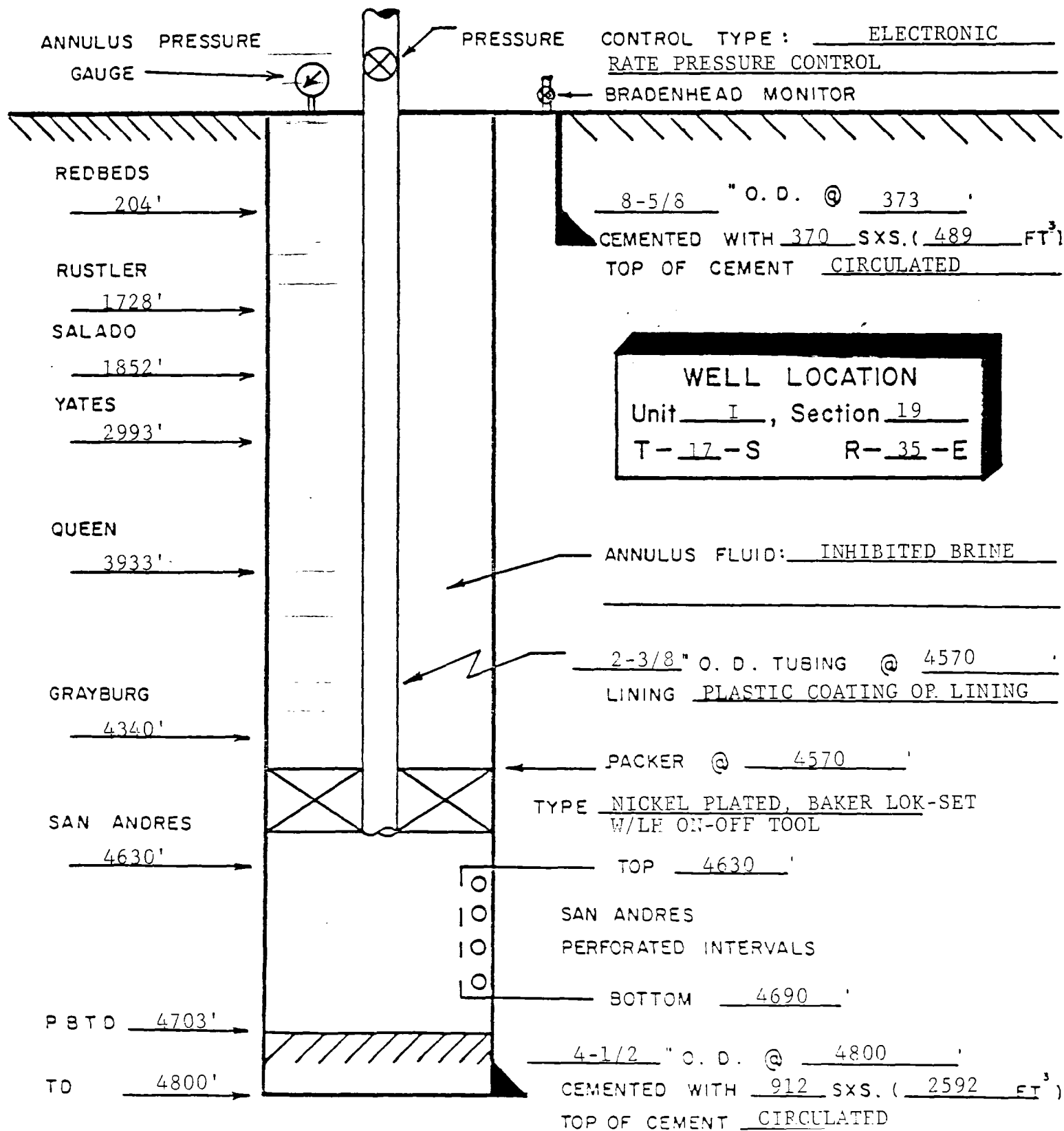
## EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

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

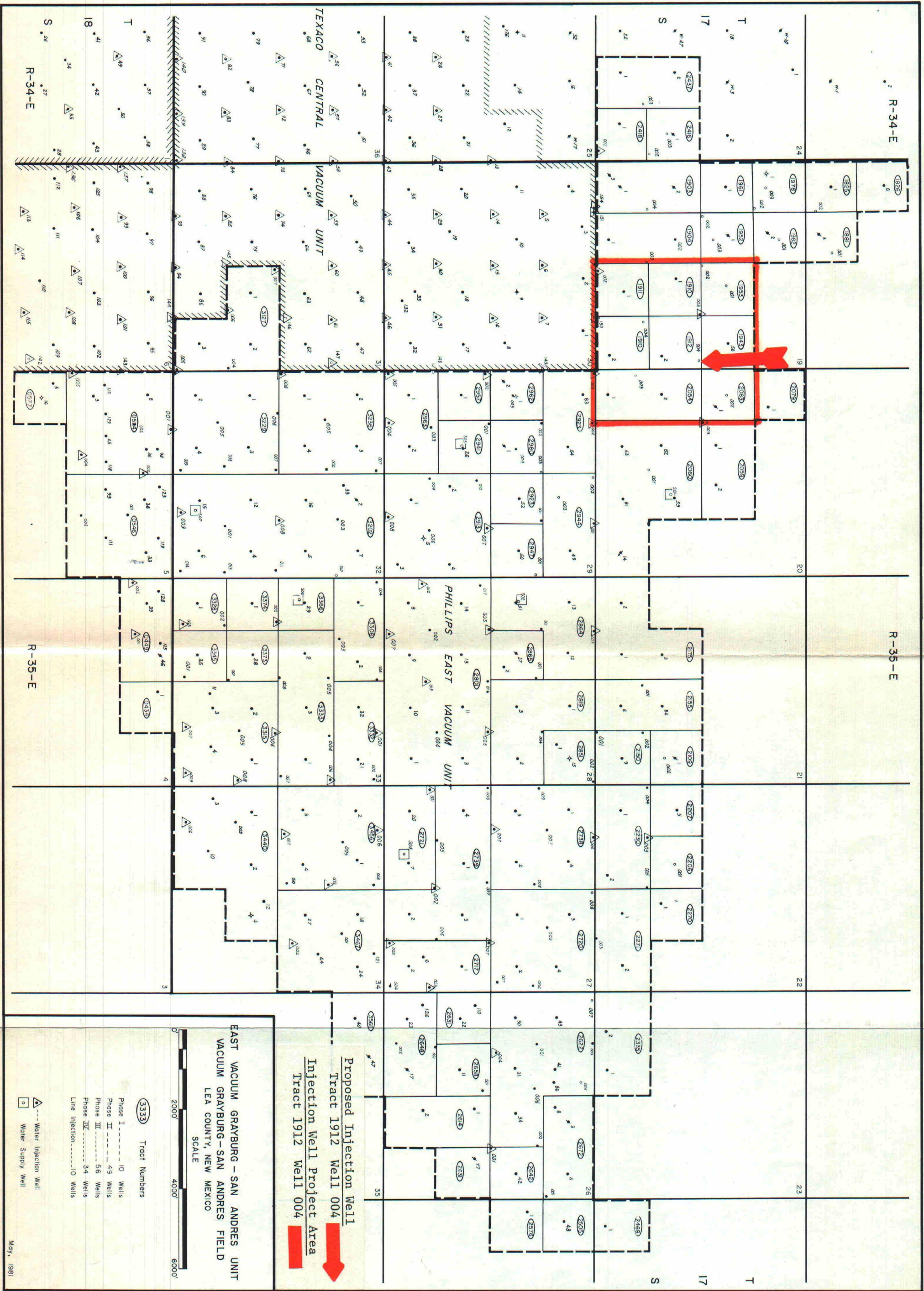
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO

TRACT 1912 WELL 004

CONVERSION TO WATER INJECTION STATUS







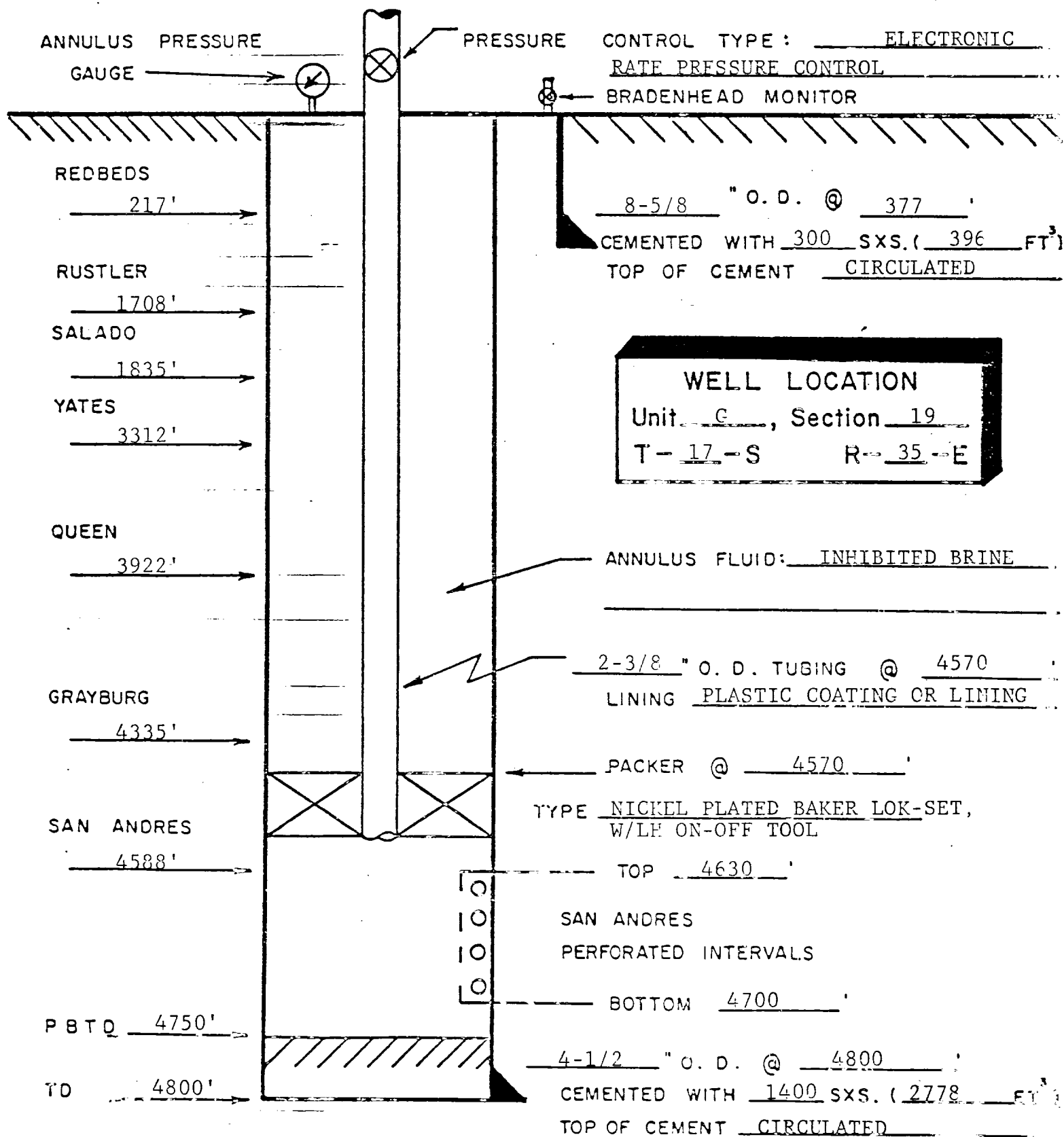


WELL OFFSET OPERATORS:  
MOBIL  
SHELL

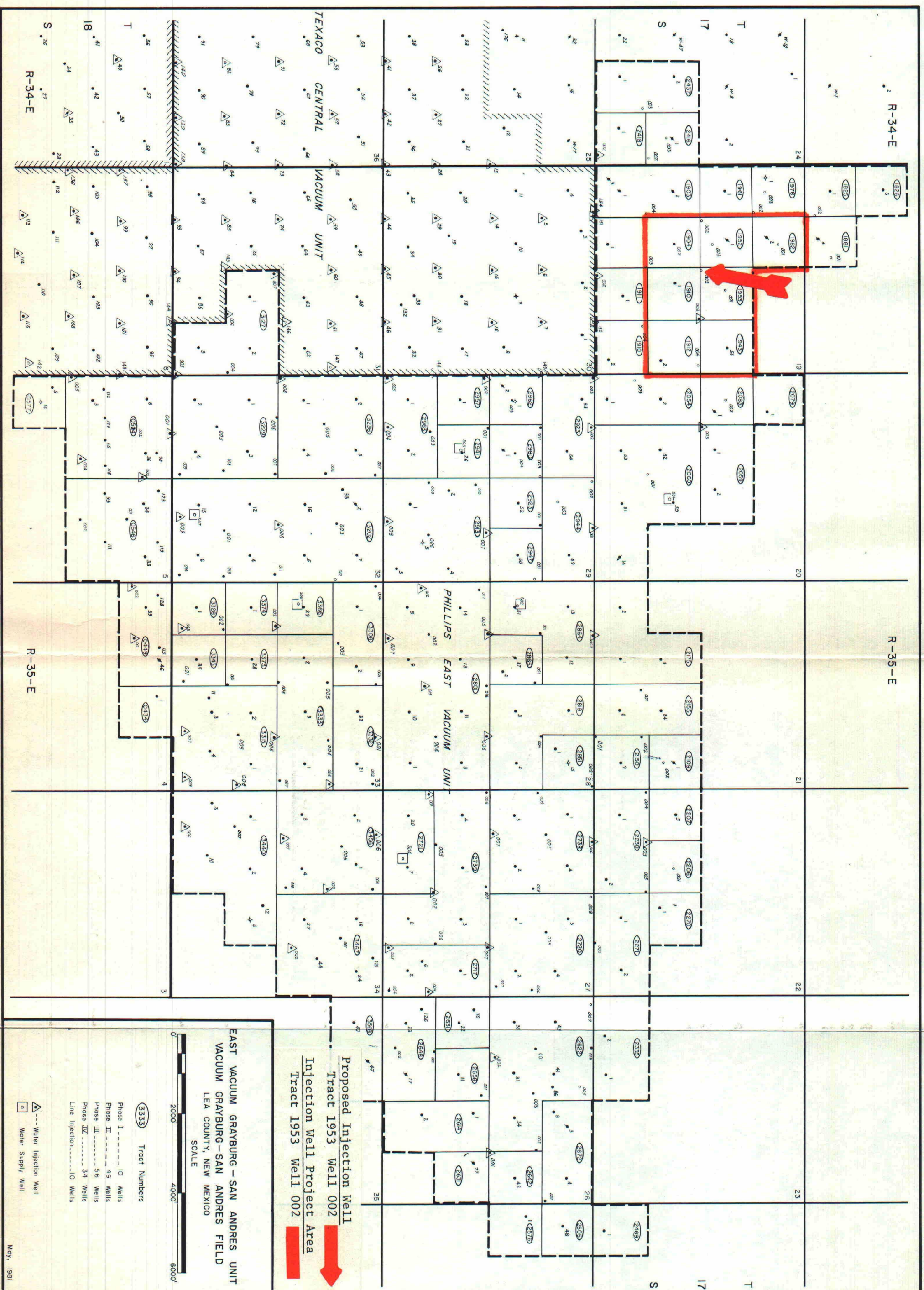
# PHILLIPS PETROLEUM COMPANY

EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT  
N. M. O. C. D. R-5897  
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO  
TRACT 1953 WELL 002

CONVERSION TO WATER INJECTION STATUS





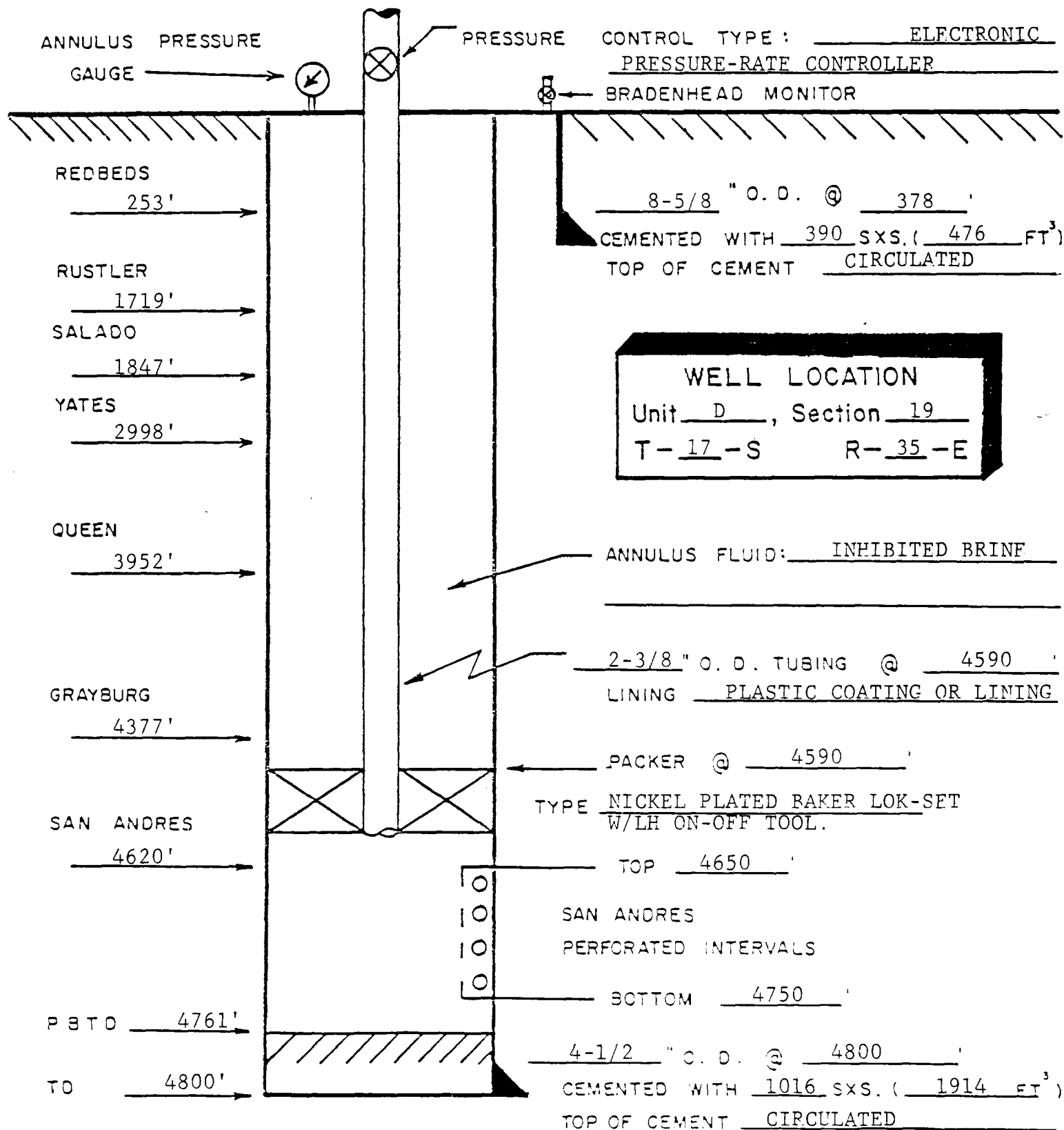




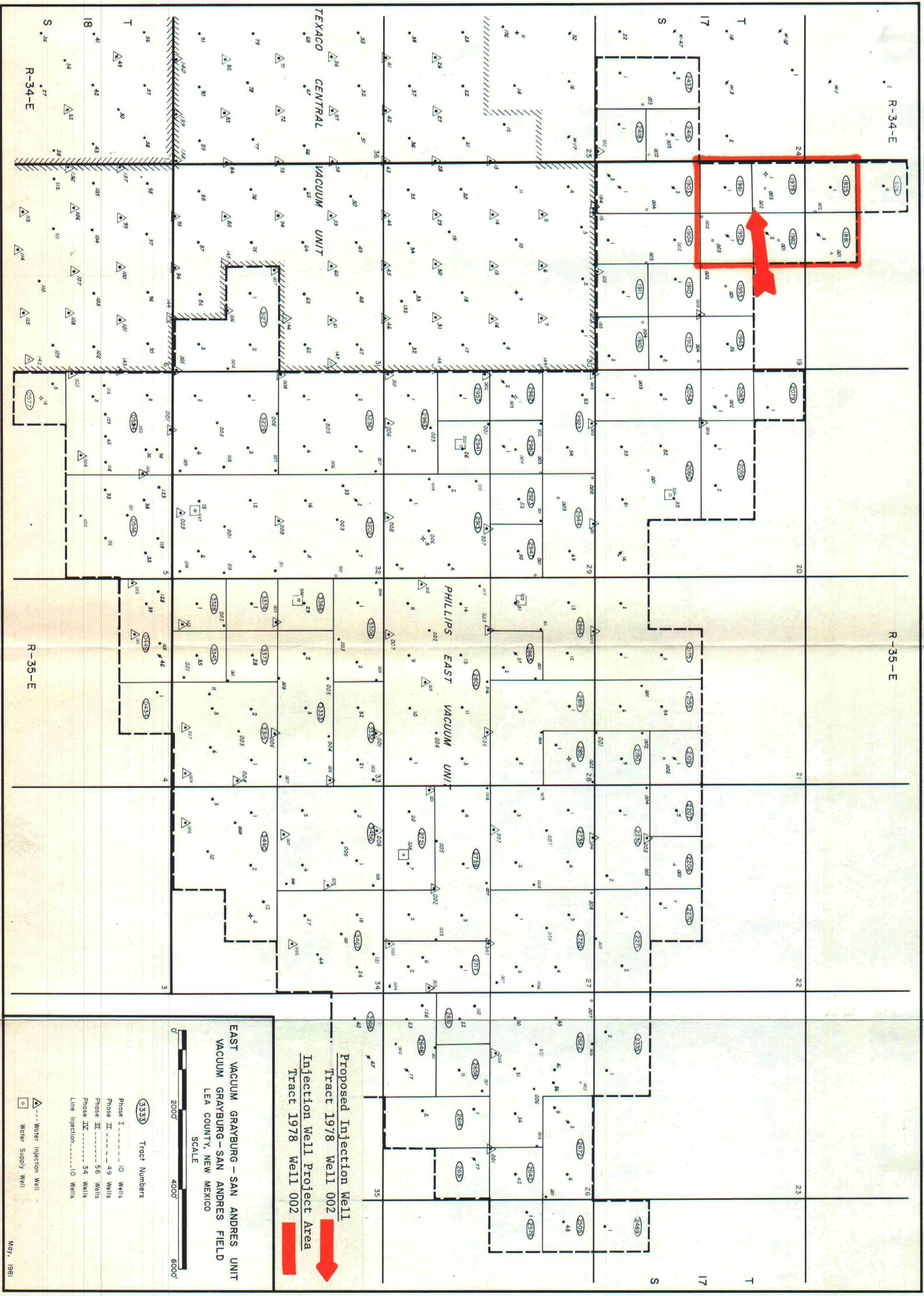
WELL OFFSET OPERATORS:  
MOBIL  
PENNZOIL  
PENNZOIL & WOLF'S HEAD

# 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 1978 WELL 002  
CONVERSION TO WATER INJECTION STATUS







Proposed Injection Well  
Tract 1978 Well 002  
Injection Well Project Area  
Tract 1978 Well 002

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

Tract Numbers  
Phase I - 10 Wells  
Phase II - 49 Wells  
Phase III - 56 Wells  
Phase IV - 34 Wells  
Line Injection - 10 Wells

Water Injection Well  
Water Supply Well

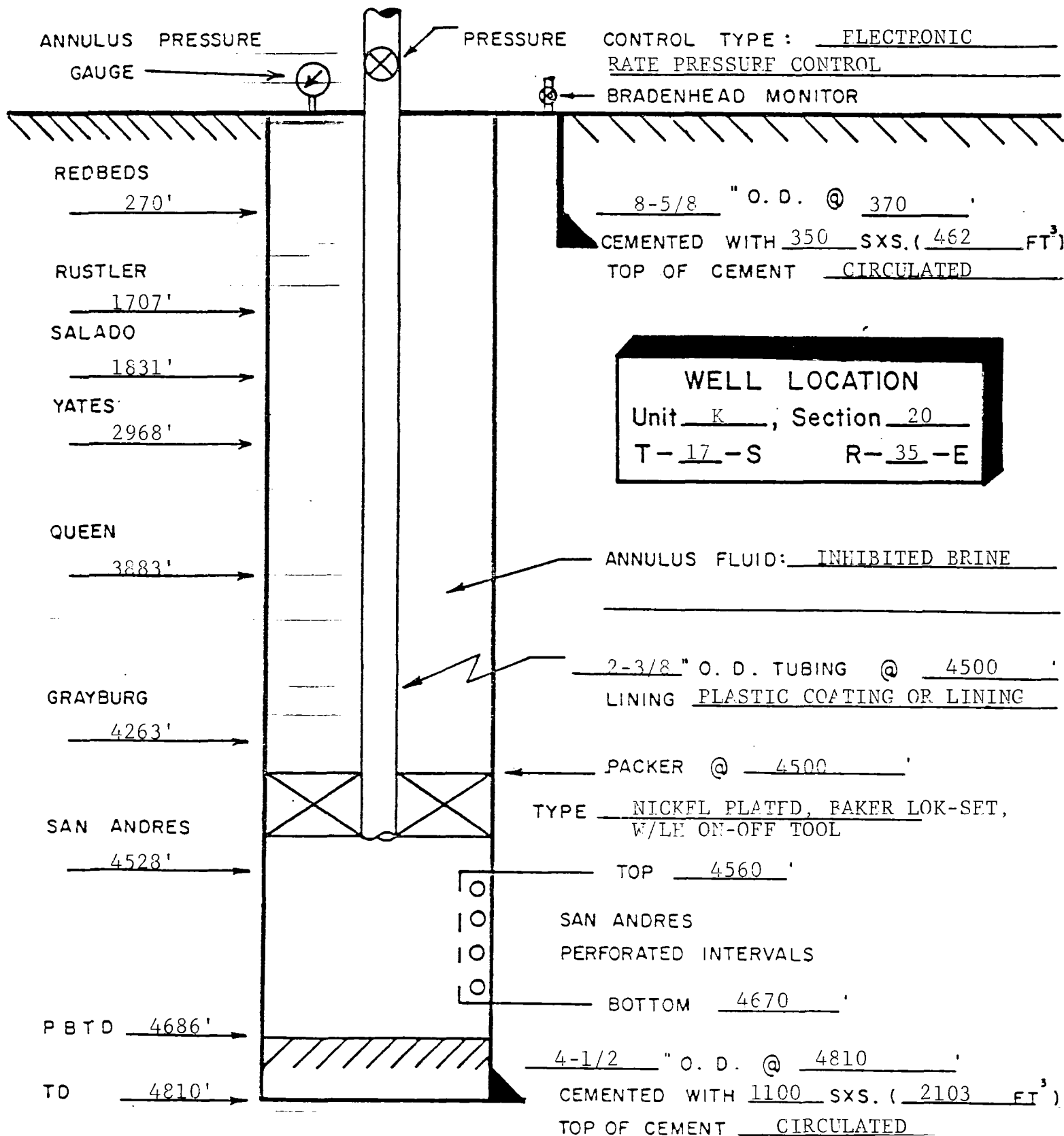


WELL OFFSET OPERATOR:  
PENROC

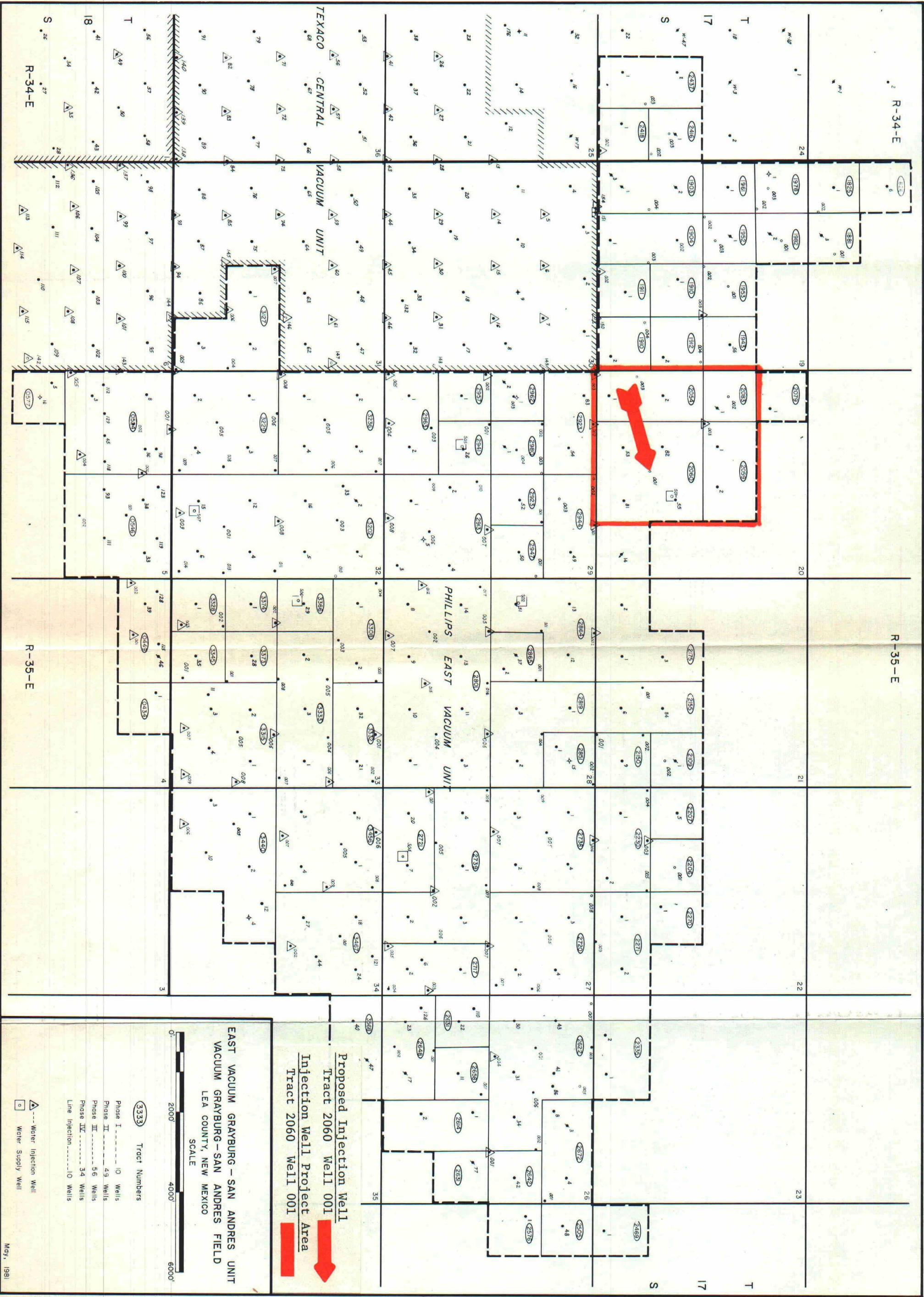
# PHILLIPS PETROLEUM COMPANY

EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT  
N. M. O. C. D. R - 5897  
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO  
TRACT 2060 WELL 001

CONVERSION TO WATER INJECTION STATUS









WELL OFFSET OPERATORS:  
MOBIL  
PENNZOIL

# PHILLIPS PETROLEUM COMPANY

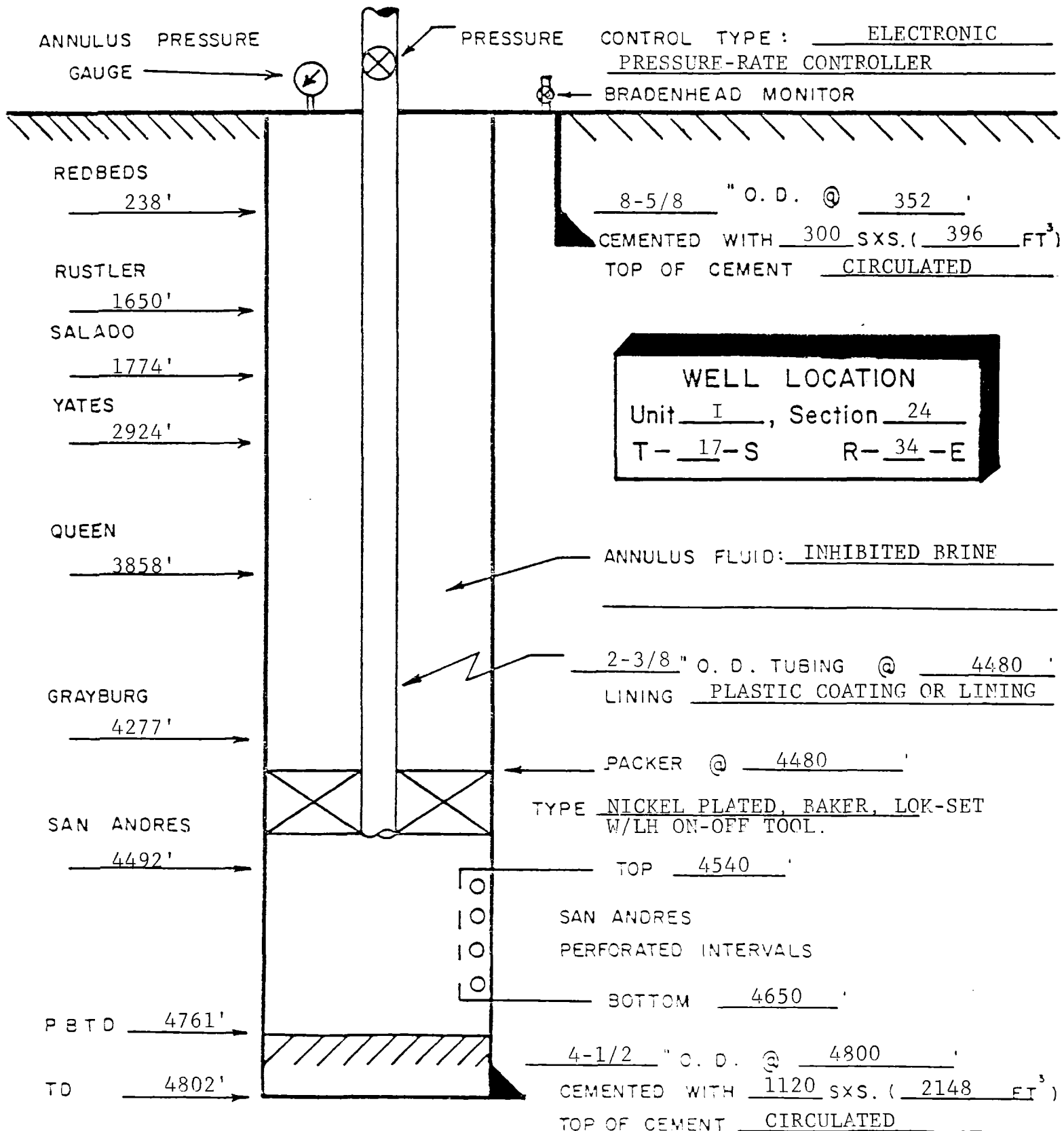
## EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

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

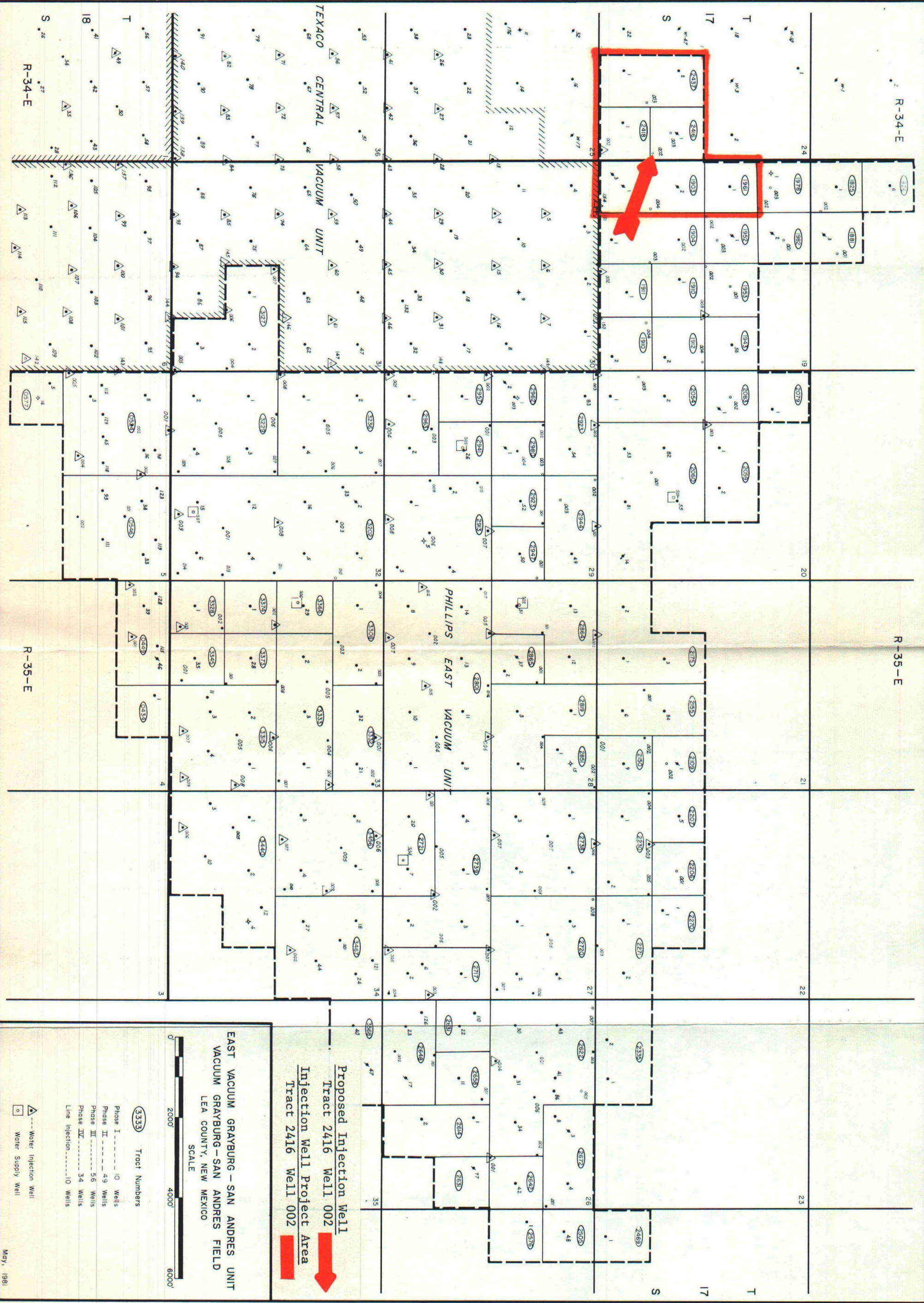
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO

TRACT 2416 WELL 002

CONVERSION TO WATER INJECTION STATUS







Proposed Injection Well  
Tract 2416 Well 002  
Injection Well Project Area  
Tract 2416 Well 002

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 - 43 Wells  
Phase III - 56 Wells  
Phase IV - 34 Wells  
Line Injection - 10 Wells  
Water Injection Well  
Water Supply Well  
May, 1981

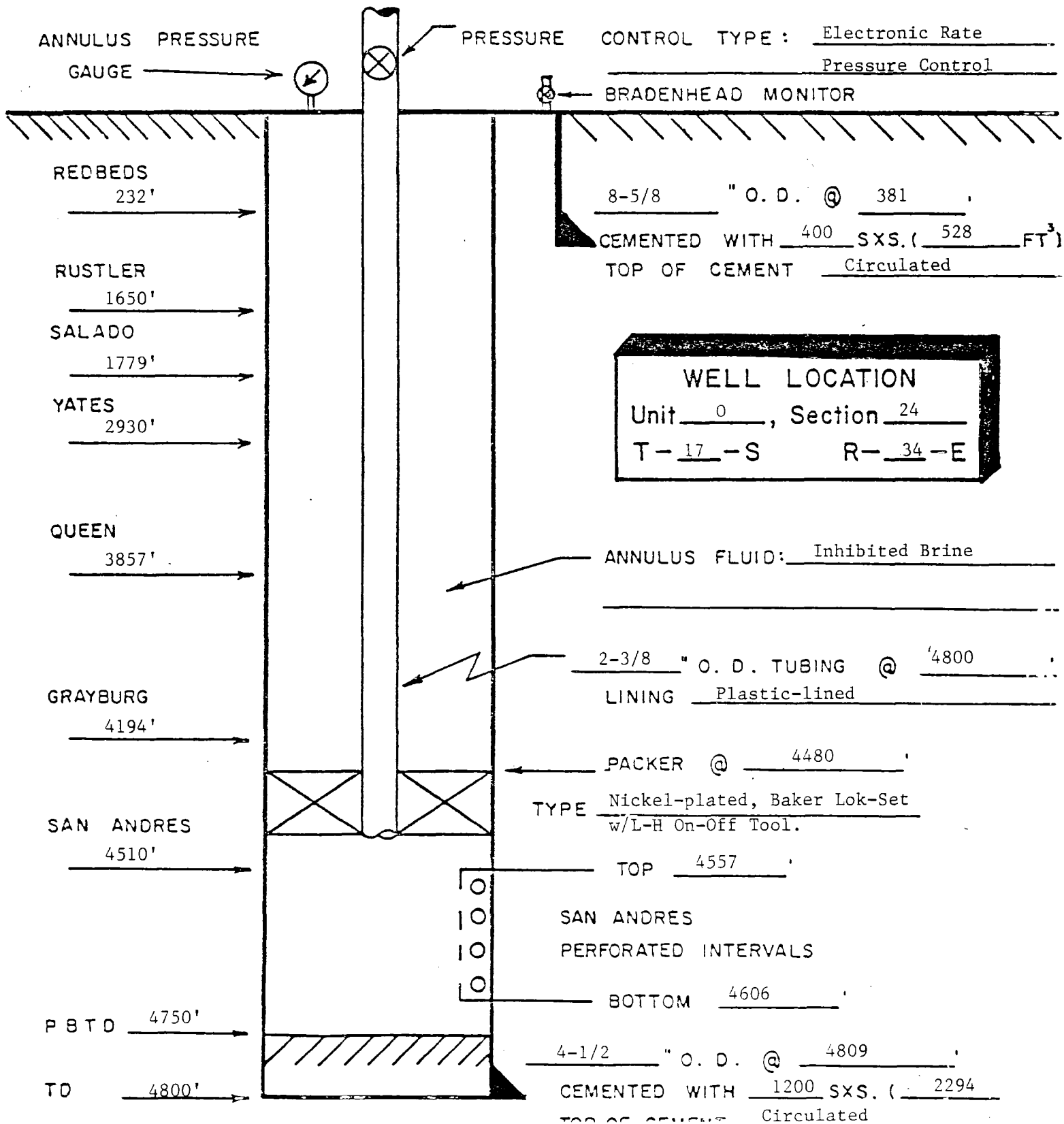


WELL OFFSET OPERATORS:  
MOBIL  
TEXACO

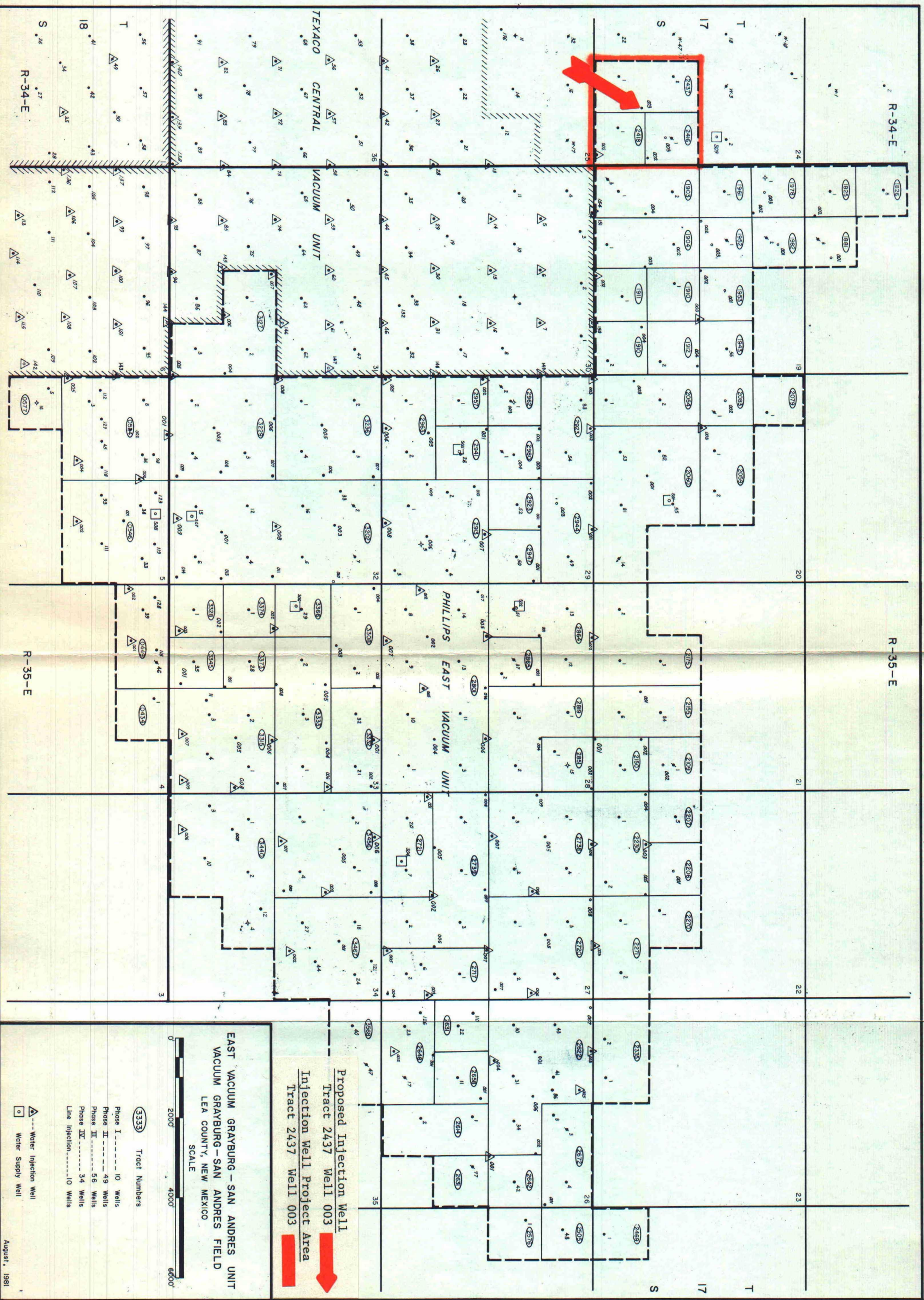
# PHILLIPS PETROLEUM COMPANY

EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT  
N. M. O. C. D. R- 5897  
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO  
TRACT 2437 WELL 003

CONVERSION TO WATER INJECTION STATUS







Proposed Injection Well  
Tract 2437 Well 003  
Injection Well Project Area  
Tract 2437 Well 003

EAST VACUUM GRAYBURG-SAN ANDRES UNIT  
VACUUM GRAYBURG-SAN ANDRES FIELD  
LEA COUNTY, NEW MEXICO  
SCALE  
0 2000' 4000' 6000'

Tract Numbers  
Phase I 10 Wells  
Phase II 49 Wells  
Phase III 56 Wells  
Phase IV 34 Wells  
Line Injection 10 Wells  
Water Injection Well  
Water Supply Well



NO OFFSETS

# PHILLIPS PETROLEUM COMPANY

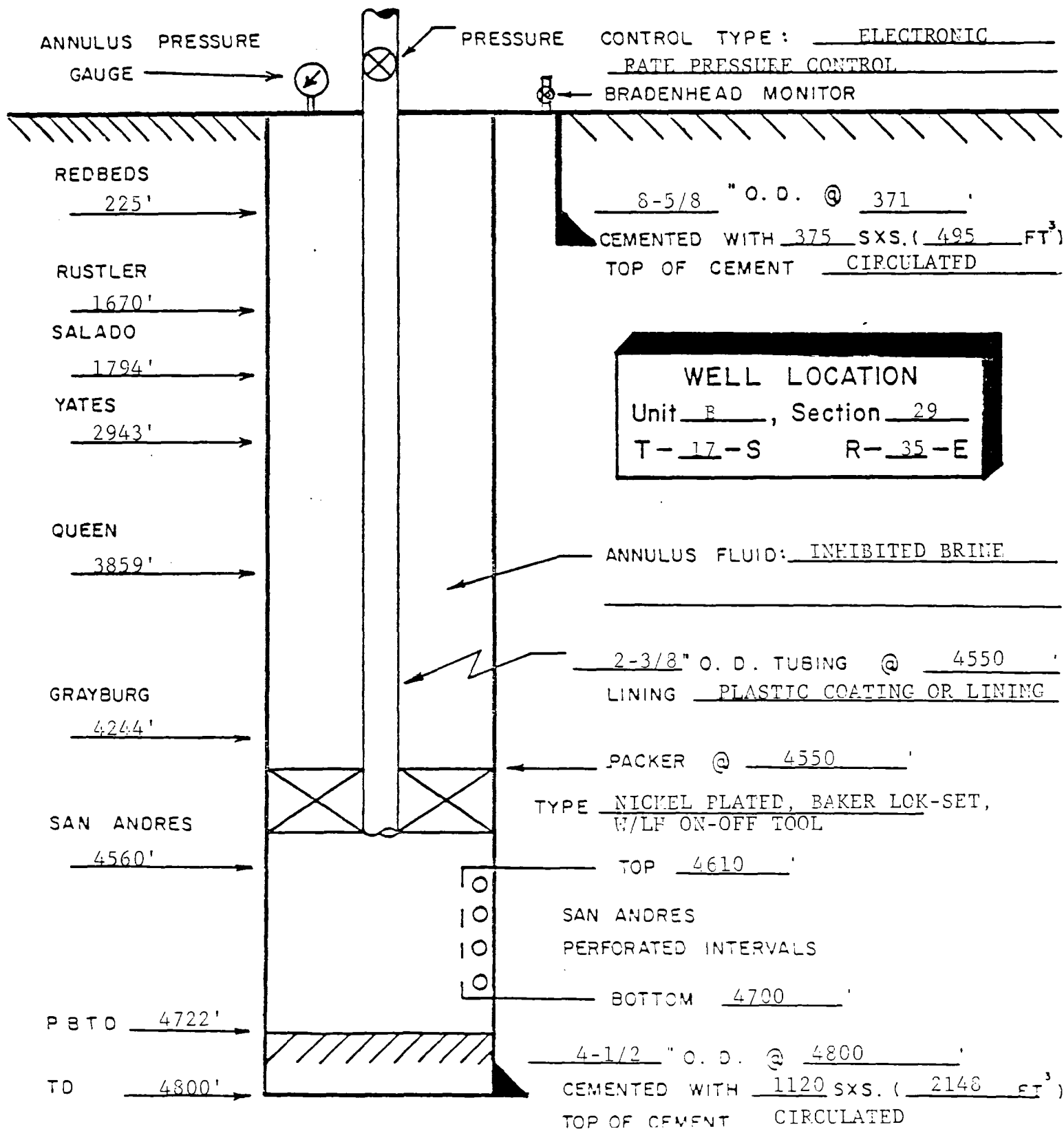
## EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

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

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

TRACT 2944 WELL 002

CONVERSION TO WATER INJECTION STATUS









WELL OFFSET OPERATOR:  
TEXACO

## PHILLIPS PETROLEUM COMPANY

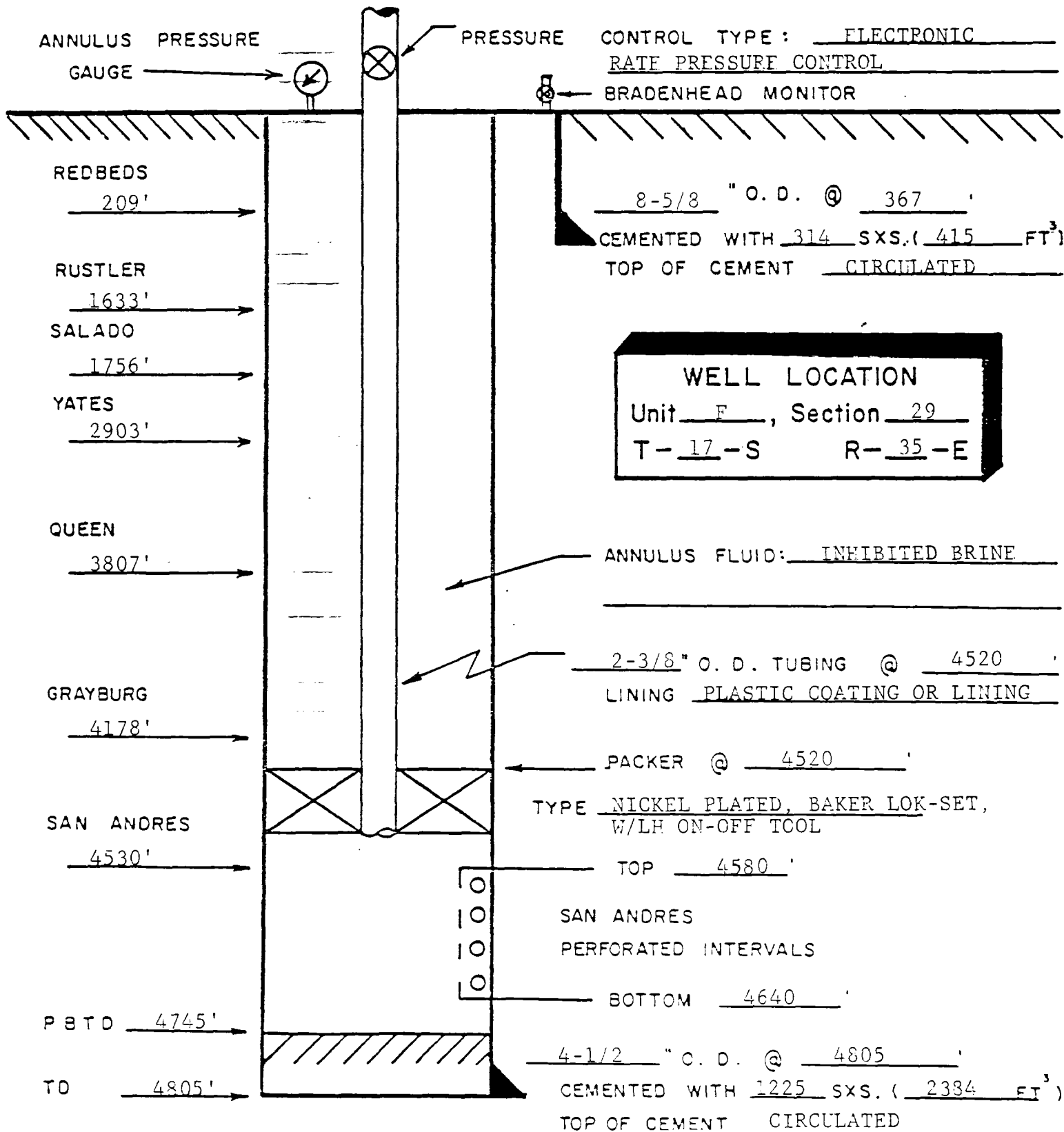
### EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

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

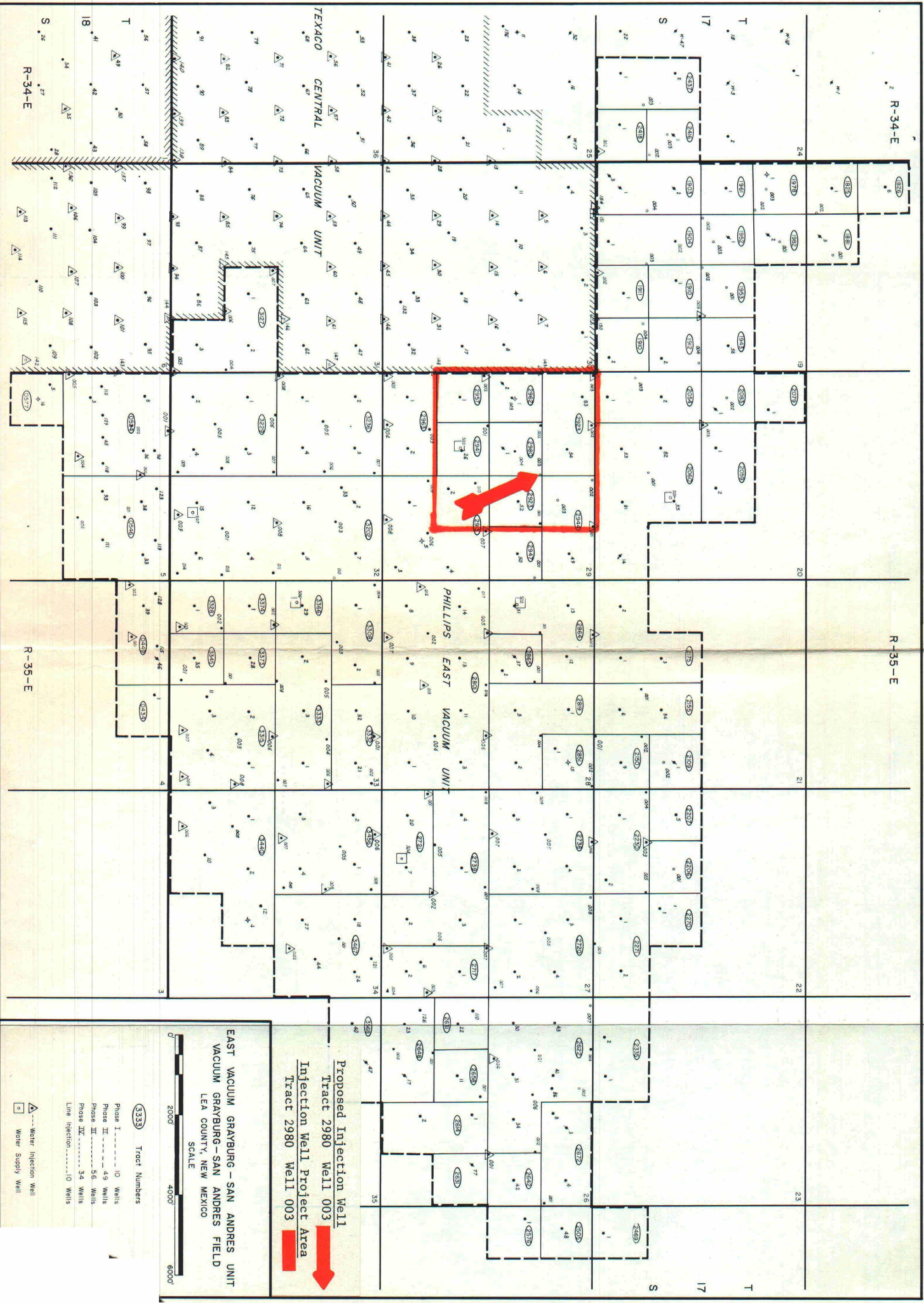
VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO

TRACT 2980 WELL 003

CONVERSION TO WATER INJECTION STATUS







Proposed Injection Well  
Tract 2980 Well 003  
Injection Well Project Area  
Tract 2980 Well 003

EAST VACUUM GRAYBURG - SAN ANDRES UNIT  
VACUUM GRAYBURG - SAN ANDRES FIELD  
LEA COUNTY, NEW MEXICO  
SCALE  
0 2000' 4000' 6000'

Tract Numbers  
Phase I - 10 Wells  
Phase II - 49 Wells  
Phase III - 56 Wells  
Phase IV - 34 Wells  
Line Injection - 10 Wells  
Water Injection Well  
Water Supply Well