



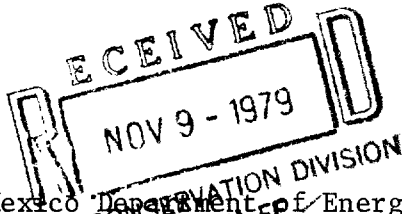
PHILLIPS PETROLEUM COMPANY

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,

F. Harold McLemore
Area Regulation and Proration
Analyst

THM:rja
Attachments

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

PHILLIPS PETROLEUM COMPANY

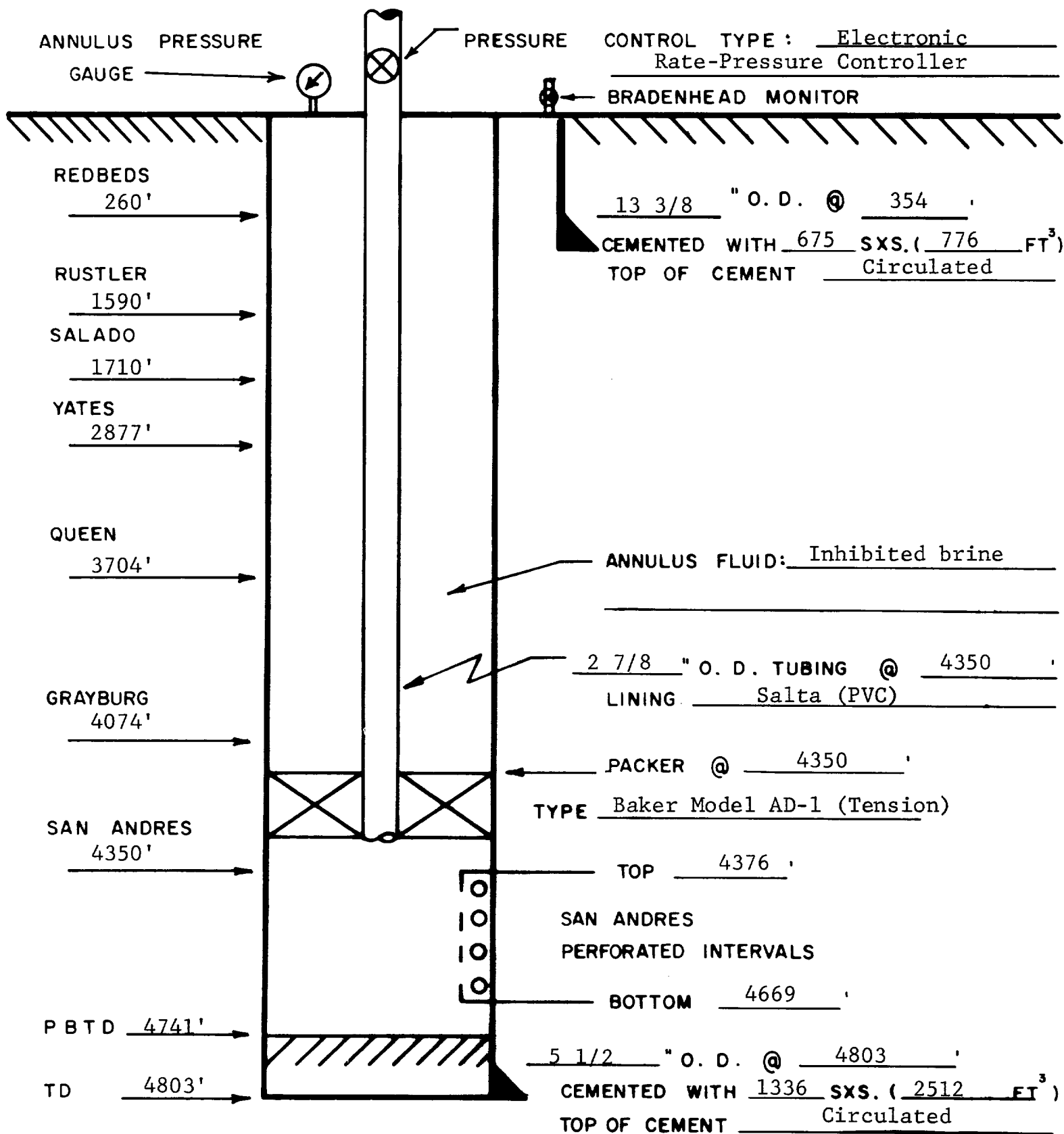
EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

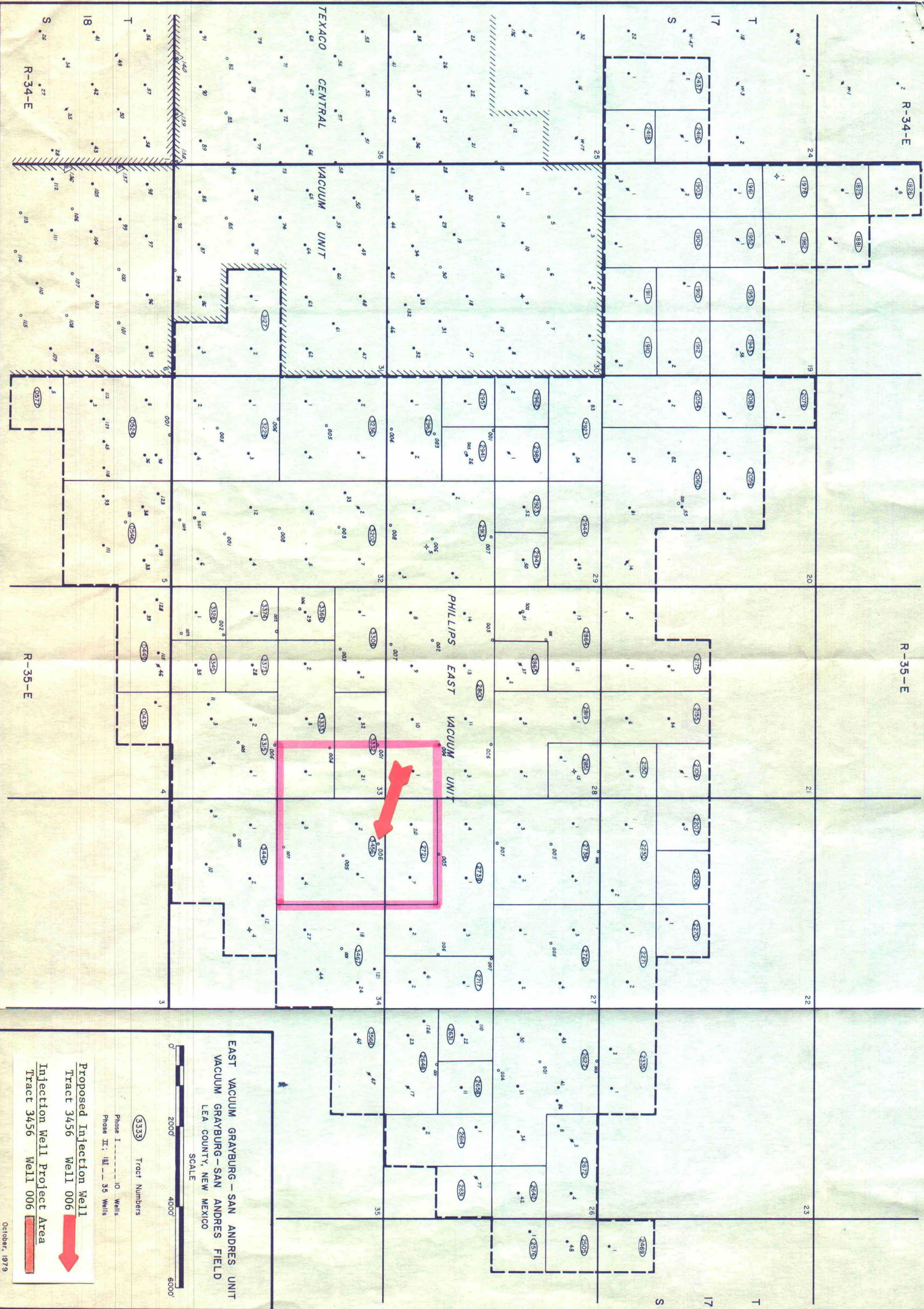
N. M. O. C. D. R-5897

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

TRACT 3456 WELL 006

CONVERSION TO WATER INJECTION STATUS





0200040006000

SCALE

3333

Tract Numbers

Phase I: 10 Wells

Phase II: 35 Wells

Proposed Injection Well

Tract 3456 Well 006

Injection Well Project Area

Tract 3456 Well 006



DUAL SPACE NEUTRON LOG

COMPANY <u>Phillips</u> Petroleum Company WELL <u>EVGSAU TR 3456</u> # <u>006</u> FIELD <u>East Vacuum</u> County <u>Lea</u> State <u>N.M.</u>	COMPANY <u>PHILLIPS PETROLEUM COMPANY</u>						
	WELL <u>EVGSAU TR 3456 # 006</u>						
	FIELD <u>EAST VACUUM GRAYBURG SAN ANDRES</u>						
	COUNTY <u>LEA</u> STATE <u>NEW MEXICO</u>						
Location <u>1155' FWL & 166' FNL</u>		Other Services:					
Sec. <u>34</u> Twp. <u>17-S</u> Rge. <u>35-E</u>							
Permanent Datum <u>Ground Level</u> Elev. <u>3936'</u>		Elev.: K.B. <u>3948.6'</u>					
Log Measured from <u>K. B. - 12.6 Ft. Above Perm. Datum</u>		D.F. <u>3946.5'</u>					
Drilling Measured From <u>Kelly Bushing</u>		G.L. <u>3636'</u>					
Date	<u>9/7/79</u>						
Run No.	<u>- One -</u>						
Type Log	<u>D S N</u>						
Depth-Driller	<u>4757</u>						
Depth-Welex	<u>4741</u>						
Bottom Logged Interval	<u>4736</u>						
Top Logged Interval	<u>50</u>						
Type Fluid in Hole	<u>Acidic Acid (3900-TD)</u>	<u>Fresh Water</u>					
Salinity, PPM Cl.	<u>10% Acid</u>	<u>(To Surface)</u>					
Density							
Level	<u>Full</u>						
Max. rec. temp., deg. F.							
Operating Rig Time	<u>3 Hours</u>						
Recorded By	<u>Loftus & Lutke</u>						
Witnessed by	<u>Mr. Thorpe Mr. Sliger & Mr. Archer</u>						
RUN	BORE-HOLE RECORD		CASING RECORD				
No.	Bit	From	To	Size	Wgt.	From	To
-1-				13-3/8"		0	354'
	7-7/8"	354'	4790'	5-1/2"	14	0	4790'

OIL CONSERVATION DIVISION
DISTRICT I

p 7m + -
75

RECEIVED
NOV 20 1979
OIL CONSERVATION DIVISION
DISTRICT I

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

SANTA FE

DATE November 20, 1979

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX X

Gentlemen:

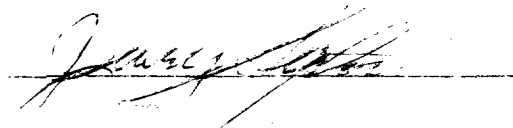
I have examined the application for the:

Phillips Petroleum Co. East Vacuum Gray., SA Unit Tr. 2717 #007-I 27-17-35
Operator Lease and Well No. Unit, S - T - R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,



/mc

OIL CONSERVATION DIVISION
DISTRICT I

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

DATE November 9, 1979

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX X

Gentlemen:

I have examined the application for the:

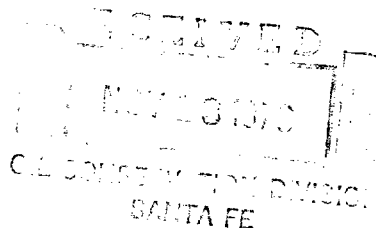
Phillips Petroleum Co. E. Vacuum Gray., SA Unit Tr. 2801 #7-N 28-17-35
Operator Lease and Well No. Unit, S - T - R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,


/mc



OIL CONSERVATION DIVISION
DISTRICT I

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

DATE November 9, 1979

RE: Proposed MC _____
Proposed DHC _____
Proposed NSL _____
Proposed NSP _____
Proposed SWD _____
Proposed WFX _____
Proposed PMX X

Gentlemen:

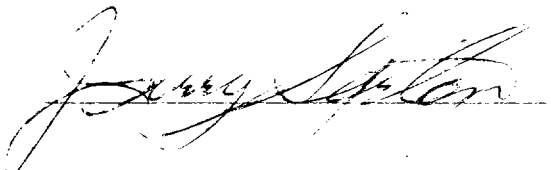
I have examined the application for the:

Phillips Pet. Co. E. Vacuum Gray., SA Unit Tr. 3456 #6-D 34-17-35
Operator Lease and Well No. Unit, S - T - R

and my recommendations are as follows:

O.K.---J.S.

Yours very truly,


/s/

RECEIVED
OIL CONSERVATION DIVISION
SANTA FE



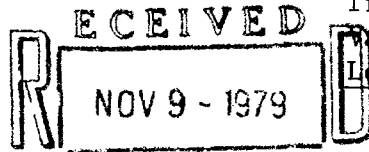
PHILLIPS PETROLEUM COMPANY

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. 2801, Well No. 007
East Vacuum Grayburg-San Andres Pool
Lea County, New Mexico



OIL CONSERVATION DIVISION

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 2801, Well No. 007 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 M, 28, 17-S, 35-E)
2. BHC sonic 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 4404 to 4368 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 BHC log

PHILLIPS PETROLEUM COMPANY

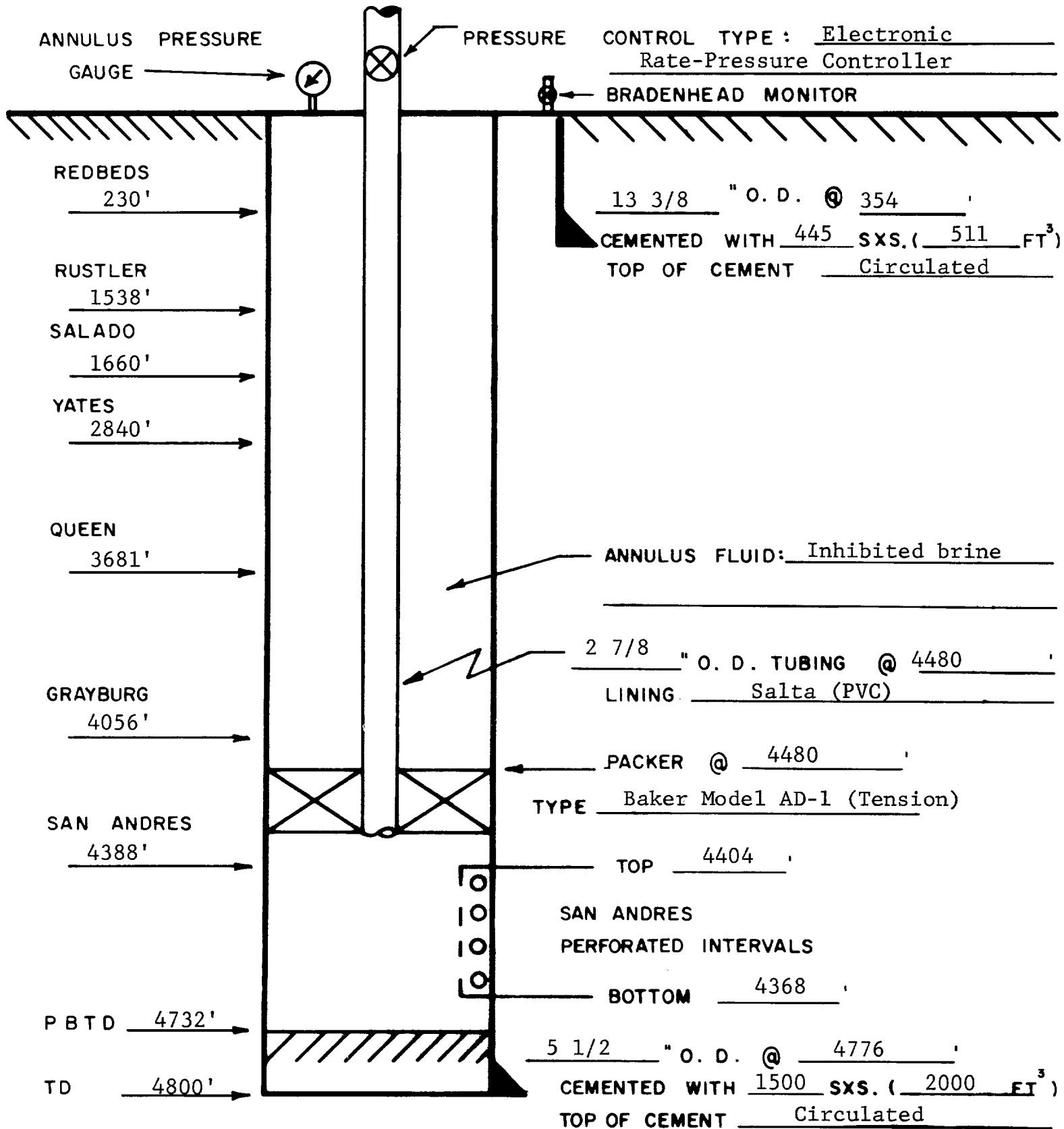
EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

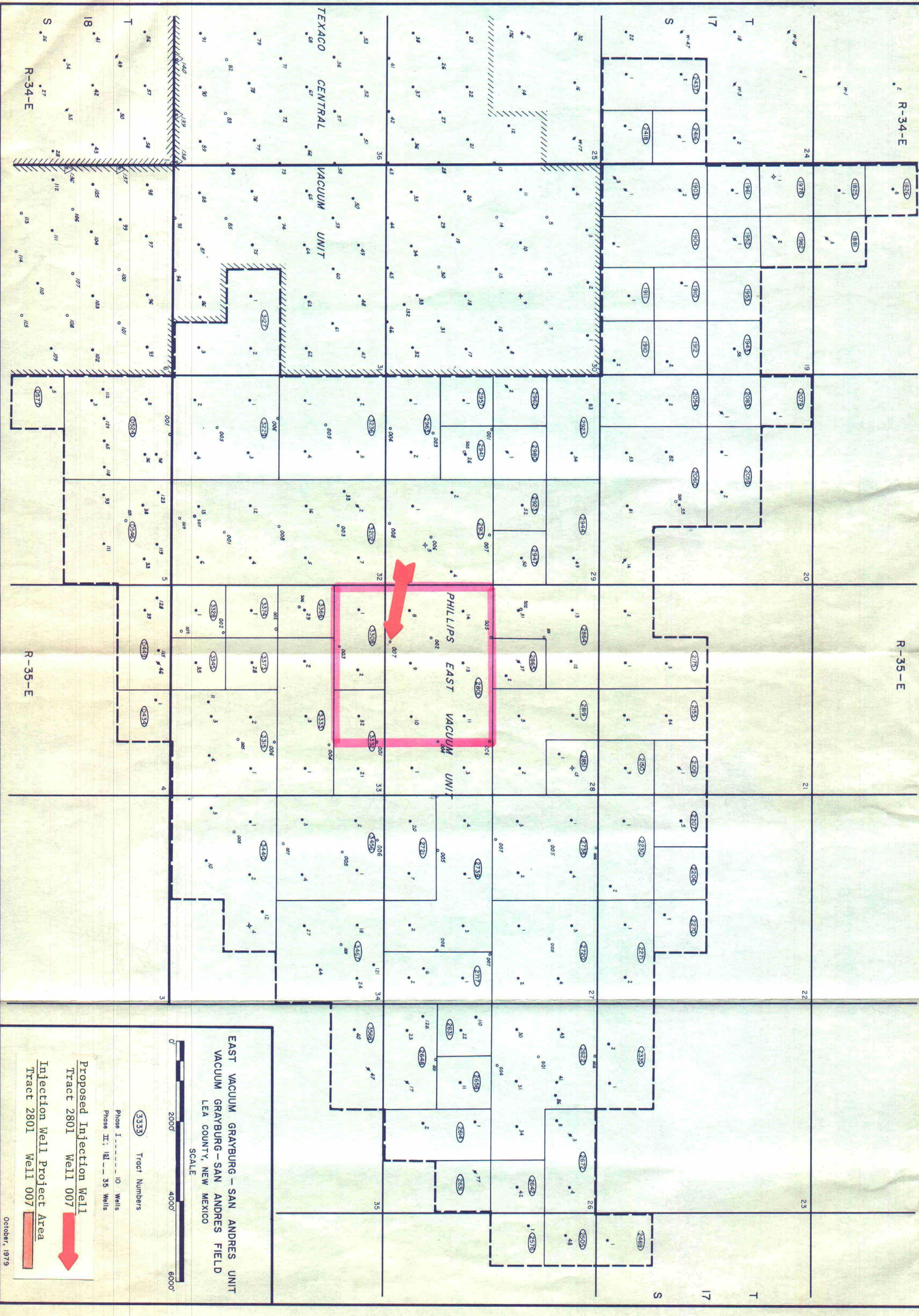
N. M. O. C. D. R - 5897

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

TRACT 2801 WELL 007

CONVERSION TO WATER INJECTION STATUS







WIRELINE SERVICES
GEARHART-OWEN

B. H. C. SONIC LOG

FILING NO.

COMPANY PHILLIPS PETROLEUM COMPANY

WELL EVCSAU "TR" 2801 NO. 007

FIELD EAST VACUUM

COUNTY LEA STATE TEXAS

LOCATION: 1450 FWL' & 138' FSL

API # 3002526384

SEC 28 TWP 17-3 RGE 35-E

Other Services
LL
M11
WEL-LIST

Permanent Datum GL Elev. 3942.5

Log Measured from KB, 12.5 Ft. Above Permanent Datum

Drilling Measured from KB

Elevations:
KB 3995
DF 3954
GL 3942.5

Date	9-16-79			
Run No.	ONE			
Depth—Driller	4800			
Depth—Logger	4804			
Bottom Logged Interval	4792			
Top Logged Interval	1000			
Casing—Driller	3 3/8@355	@	@	@
Casing—Logger	NOT LOGGED			
Bit Size	7.87			
Type Fluid in Hole	SALT MUD			
Density and Viscosity	10.2 35			
pH and Fluid Loss	7.5 8 cc	cc	cc	cc
Source of Sample	PIT			
Rm @ Meas. Temp.	.052@ 86 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.042@ 86 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.083@ 86 °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	M • M			
Rm @ BHT	.04 @ 111°F	@ °F	@ °F	@ °F
Time Since Circ.	9 HOURS			
Max. Rec. Temp. Deg. F.	111 °F	°F	°F	°F
Equip. No. and Location	7556 ODESSA			
Recorded By	WHITE			
Witnessed By	MR. DOLLENS			