



Amoco Production Company (USA)

Houston Region-West
500 Jefferson Building
Post Office Box 3092
Houston, Texas 77001

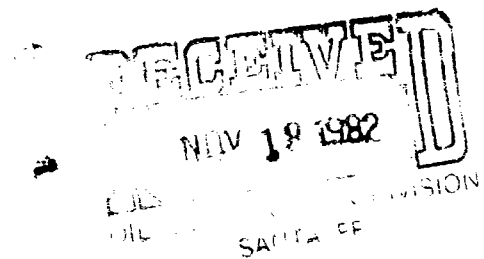
R. G. Smith
Regional Engineering
Manager-West

November 16, 1982

File: JCA-986.51NM-3361

Re: Waiver of Objection
Conversion to Water Injection
Vacuum Grayburg San Andres
Lea County, New Mexico

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



Attention: Mr. Joe D. Ramey

Gentlemen:

Texaco has requested administrative approval for expansion of waterflood operations in the referenced area. This request was made in compliance with the provisions of Order No. R-4442 and R-5530. This expansion will provide for the conversion of the following wells to water injection:

Vacuum Grayburg San Andres Unit Wells No. 18, 61, 62, 63, 65, and 67.

Central Vacuum Unit Wells No. 155, 156, 157, 158, 159, 160, and 161.

Amoco Production Company (USA), as an offset operator, waive objection to these proposed conversion to water injection.

Yours very truly,

LWS/lrd

cc: Texaco, U.S.A.
P. O. Box 728
Hobbs, New Mexico 88240



PETROLEUM PRODUCTS

Page 1 of 1

TEXACO
U.S.A.
A DIVISION OF TEXACO INC.
P. O. BOX 728
HOBBS, NEW MEXICO 88240
(505) 393-7191

October 22, 1982

*Mr. Joe D. Ramey
Oil Conservation Division
Santa Fe*

CONVERSION TO WATER INJECTION
VACUUM GRAYBURG SAN ANDRES UNIT
WELLS NO. 18, 61, 62, 63, 65, & 67
CENTRAL VACUUM UNIT WELLS NO. 155,
156, 157, 158, 159, 160, & 161
LEA COUNTY, NEW MEXICO

State of New Mexico
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico, 87501

Attention: Mr. Joe D. Ramey

Gentlemen:

*11-17-82 Well #61 to be
dropped from application via
phone conversation with
Frank Gray at Hobbs. Also
injection pressure limited to
875 psi as Gray says ok*
[Signature]

Texaco Inc. respectfully requests Administrative approval for expansion of waterflood injection well pattern, as provided by Order No. R-4442 for the Vacuum Grayburg San Andres Unit and Order No. R-5530 for the Central Vacuum Unit to convert the following wells to water injection service:

Vacuum Grayburg San Andres Unit Wells No. 18, 61, 62, 63, 65, and 67.

Central Vacuum Unit, Wells No. 155, 156, 157, 158, 159, 160, and 161.

The following data are submitted in support of this request:

- 1.) A Unit Plat is attached reflecting the respective injection wells and their project area.
- 2.) Attached are Diagrammatic Sketches of the proposed wells, showing injection tubing, packers, and identifying the San Andres perforated injection intervals.

- 3.) The Ogallala fresh water will be used as the injectant into the Vacuum Grayburg San Andres formation. The Ogallala fresh water has been successfully used as an injectant into the Vacuum Grayburg San Andres pool for over 16 years with no evidence of formation plugging, and therefore is considered to be compatible with the Vacuum Grayburg San Andres formation. A water analysis of the Ogallala fresh water is attached.
- 4.) The name of the injection formation is Vacuum Grayburg San Andres with average injection to be from 4434' to 4800' on the Vacuum Grayburg San Andres Unit and from 4367' to 4800' on the Central Vacuum Unit. The lithology of this formation is Dolomite and the geological name is the Grayburg San Andres. The average pay thickness is about 400'. The geological name of the underground source of drinking water is the Ogallala at 300' maximum depth. The maximum anticipated injection pressure will be no greater than 0.2 psi per foot to the top of the perforations with a maximum daily volume anticipated at 1500 barrels of water per day per well.
- 5.) Proposed stimulation will consist of 8000 gallons of 15% acid using ball sealers.
- 6.) Attached is a Certified copy of Public Notice by newspaper.
- 7.) Attached is a list of affected Offset Operators and Surface Tenant.
- 8.) Attached is evidence that notice has been given to those entities in Item 7.

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

State of New Mexico
Dept. of Energy & Minerals

- 3 -

October 22, 1982

Your consideration and early approval will be appreciated.

Yours very truly,

TEXACO INC.
PRODUCING DEPARTMENT-UNITED STATES

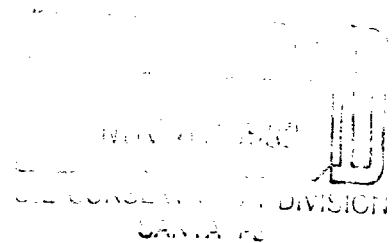


J. A. Schaffer
Assistant District Manager

GDD:JEB

Attachments

Copy to: Department of Energy & Minerals
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico, 88240





PETROLEUM PRODUCTS

October 22, 1982

TEXACO
U.S.A.
A DIVISION OF TEXACO INC.
P. O. BOX 728
HOBBS, NEW MEXICO 88240
(505) 393-7191

PERMISSION TO INJECT WATER INTO A
RESERVOIR PRODUCTIVE OF OIL OR GAS
VACUUM GRAYBURG SAN ANDRES UNIT
WELLS NO. 18, 61, 62, 63, 65, & 67
CENTRAL VACUUM UNIT WELLS NO. 155,
156, 157, 158, 159, 160, & 161
LEA COUNTY, NEW MEXICO

OFFSET OPERATORS
(Address List Attached)

Gentlemen:

This is to notify you, as Offset Operator, that Texaco is requesting the New Mexico Oil Conservation Division to approve injection of water into the Vacuum Grayburg San Andres formation at a depth of 4583' in the subject wells. The subject leases consist of 4531.84 acres, and are located in Sections, 1, 2, 6, 7, 11, 12, 25, 30, 31, 35, and 36, Townships 17 and 18-South, and Ranges 34 and 35-East, Lea County, New Mexico.

If there are any questions, please do not hesitate to call this office.

Yours very truly,

TEXACO INC.
PRODUCING DEPARTMENT-UNITED STATES

J. A. Schaffer
Assistant District Manager

GDD:JEB

Attachment



PETROLEUM PRODUCTS

TEXACO
U.S.A.
A DIVISION OF TEXACO INC.
P. O. BOX 728
HOBBS, NEW MEXICO 88240
(505) 393-7191

October 22, 1982

PERMISSION TO INJECT WATER INTO A
RESERVOIR PRODUCTIVE OF OIL OR GAS
VACUUM GRAYBURG SAN ANDRES UNIT
WELLS NO. 18, 61, 62, 63, 65, & 67
CENTRAL VACUUM UNIT WELLS NO. 155,
156, 157, 158, 159, 160, & 161
LEA COUNTY, NEW MEXICO

Scharbauer Cattle Company
P. O. Box 1471
Midland, Texas

Gentlemen:

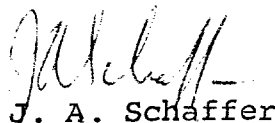
This is to notify you, as Surface Owner, that Texaco is requesting the New Mexico Oil Conservation Division to approve injection of water into the Vacuum Grayburg San Andres formation at a depth of 4583' in the subject wells. The subject leases consist of 4531.84 acres, and are located in Sections 1, 2, 6, 7, 11, 12, 25, 30, 31, 35, and 36, Townships 17 and 18-South, and Ranges 34 and 35-East, Lea County, New Mexico.

As stipulated in the Lease Agreement, only that surface area absolutely required will be used in operating the injection wells. The proposed injection wells are cased and cemented in such a way that all surface and subsurface fresh waters will be protected.

If there are any questions, please do not hesitate to call this office.

Yours very truly,

TEXACO INC.
PRODUCING DEPARTMENT-UNITED STATES


J. A. Schaffer

Assistant District Manager

GDD:JEB

Martin Water Laboratories, Inc

P. O. BOX 1468
MONAHANS, TEXAS 79756
PHONE 943-3234 OR 563-1040

RESULT OF WATER ANALYSES

406 W. ILLINOIS
MIDLAND, TEXAS 79701
PHONE 683-4521

TO: Area Engineer LABORATORY NO. 1076119
P. O. Box 727, Lovington, N. M. SAMPLE RECEIVED 10-15-76
RESULTS REPORTED 10-22-76

COMPANY Texaco, Inc. LEASE Vacuum Grayburg-San Andres Unit
FIELD OR POOL Vacuum
SECTION BLOCK SURVEY COUNTY Lea STATE N. M.
SOURCE OF SAMPLE AND DATE TAKEN:

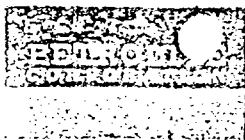
- NO. 1 Raw water - taken from water supply well #1. 10-15-76
NO. 2 Raw water - taken from Reda Pump water supply well #2. 10-15-76
NO. 3 Raw water - taken from water supply well #3. 10-15-76
NO. 4 Produced (Glorieta) water - taken from LMN & O heater-treater. 10-15-76

REMARKS: MIXED WATER SYSTEM

CHEMICAL AND PHYSICAL PROPERTIES				
	NO. 1	NO. 2	NO. 3	NO. 4
Specific Gravity at 60° F.	1.0018	1.0022	1.0006	1.1370
pH When Sampled	7.2	7.1	7.3	7.1
pH When Received	7.3	7.25	7.45	7.3
Bicarbonate as HCO ₃	190	190	185	647
Supersaturation as CaCO ₃	4	0	4	60
Undersaturation as CaCO ₃	-	-	-	--
Total Hardness as CaCO ₃	465	555	180	9,200
Calcium as Ca	140	166	58	2,400
Magnesium as Mg	28	34	9	778
Sodium and/or Potassium	73	173	25	84,505
Sulfate as SO ₄	26	71	21	3,960
Chloride as Cl	313	497	42	133,516
Iron as Fe	0.30	0.26	0.24	0.04
Barium as Ba	0	0	0	0
Turbidity, Electric	0.0	0.32	0.0	11
Color as Pt	0	0	0	6
Total Solids, Calculated	770	1,131	340	225,806
Temperature °F.	67	72	66	58
Carbon Dioxide, Calculated	20	25	15	85
Dissolved Oxygen, Winkler	2.5	0.0	5.5	0.0
Hydrogen Sulfide	0.0	0.0	0.0	175
Resistivity, ohms/m at 77° F.	7.50	5.50	25.00	0.053
Suspended Oil				221
Filtrable Solids as mg/l	12.6	4.9	2.6	47.1
Volume Filtered, ml	5,850	20,000	20,000	1,000

Results Reported As Milligrams Per Liter

Additional Determinations And Remarks



TRETOLITE DIVISION

300 Marshall Avenue / Saint Louis, Missouri 63119

(314) 431-3500/TWX 910-760-1660/Telex 44-2417

WATER ANALYSIS REPORT

COMPANY Texaco Incorporated ADDRESS Buckeye, M.M. DATE: 6-6-80SOURCE Vacuum Grayburg - San Andres DATE SAMPLED 5-20-80 ANALYSIS NO. 591
Analysis WSW #4 Mg/L Meq/L

1. pH	<u>7.2</u>	Carbon Dioxide (CO ₂)	<u>14</u>	ppm
2. H ₂ S (Qualitative)	<u>Neg.</u>	Oxygen (O ₂)	<u>5.0</u>	ppm
3. Specific Gravity	<u>1.000</u>	Temperature (F°)	<u>76°</u>	<u>JUNE</u>
4. Dissolved Solids	<u>673</u>			
5. Suspended Solids	<u></u>			
6. Phenolphthalein Alkalinity (CaCO ₃)	<u></u>			
7. Methyl Orange Alkalinity (CaCO ₃)	<u>170</u>			
8. Bicarbonate (HCO ₃)	<u>207</u>	÷ 61	<u>3</u>	HCO ₃
9. Chlorides (Cl)	<u>125</u>	÷ 35.5	<u>4</u>	Cl
10. Sulfates (SO ₄)	<u>150</u>	÷ 48	<u>3</u>	SO ₄
11. Calcium (Ca)	<u>92</u>	÷ 20	<u>5</u>	Ca
12. Magnesium (Mg)	<u>10</u>	÷ 12.2	<u>1</u>	Mg
13. Total Hardness (CaCO ₃)	<u>270</u>			
14. Total Iron (Fe)	<u>0.0</u>			
15. Barium (Qualitative)	<u>None Detected</u>			
16. Strontium	<u></u>			

*Milli equivalents per liter

PROBABLE MINERAL COMPOSITION

Compound	Equiv. Wt.	X	Meq/L	=	Mg/L
Ca (HCO ₃) ₂	81.04		<u>3</u>		<u>243</u>
Ca SO ₄	68.07		<u>2</u>		<u>136</u>
Ca Cl ₂	58.50				
Mg (HCO ₃) ₂	73.17				
Mg SO ₄	60.19		<u>1</u>		<u>60</u>
Mg Cl ₂	47.62				
Na HCO ₃	84.00				
Na ₂ SO ₄	71.03				
Na Cl	58.46		<u>4</u>		<u>234</u>

Saturation Values	Distilled Water 20°C
Ca CO ₃	13 Mg/L
Ca SO ₄ • 2H ₂ O	2,090 Mg/L
Mg CO ₃	103 Mg/L

REMARKS John Caldwell - Bill Jones

Brewer - W. Roberts - Gray - Nix - File

Respectfully submitted
TRETOLITE COMPANY

Terry Jordan

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 weeks.

Beginning with the issue dated

OCTOBER 14, 1982

and ending with the issue dated

OCTOBER 14, 1982

Robert L. Summers
Publisher.

Sworn and subscribed to before

me this 14TH day of

OCTOBER, 1982

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

October 14, 1982

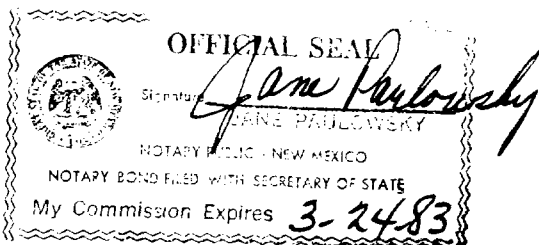
Notice is hereby given of the application of Texaco Inc., Attention: J.A. Schaffner, Assistant District Manager of Operations, P.O. Box 228, Hobbs, New Mexico, 88240, Telephone (505) 323-7101, to the Oil Conservation Division, New Mexico Energy & Minerals Department, for approval of the following injection well (s) for the purpose of pressure maintenance.

Well (s) No (s): 155, 156, 157, 158, 159, 160, & 161

Lease/Unit Name: Central Vacuum Unit

Location: Well #155 — Section 25, T-17-S, R-34-E; Well #156 — Section 25, T-17-S, R-34-E; Well #157 — Section 25, T-17-S, R-34-E; Well #158 — Section 36, T-17-S, R-34-E; Well #159 — Section 36, T-17-S, R-34-E; Well #160 — Section 36, T-17-S, R-34-E; Well #161 — Section 36, T-17-S, R-34-E, Lea County, New Mexico.

The injection formation is Grayburg San Andres at a depth of 4800 feet below the surface of the ground. Expected maximum injection rate is 1,000 barrels per day, and expected 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 of this publication.



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

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ONE weeks.

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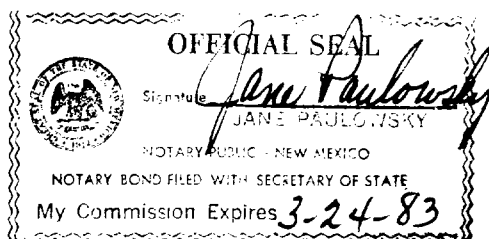
LEGAL NOTICE

October 14, 1982

Notice is hereby given of the application of Toraco Inc., Attention: J. A. Schaffer, Assistant District Manager of Operations, P.O. Box 728, Hobbs, New Mexico, 88240, Telephone (505) 393-7191, to the Oil Conservation Division, New Mexico Energy & Minerals Department for approval of the following injection well(s) for the purpose of pressure maintenance.

Well(s) No(s): 18, 61, 62, 63, 65, and 67. Lease/Unit Name: Vacuum Grayburg/San Andres Unit

Location: Well #18 - Section 1, T-18-S, R-34-E; Well #61 - Section 2, T-18-S, R-34-E; Well #62 - Section 2, T-18-S, R-34-E; Well #63 - Section 2, T-18-S, R-34-E; Well #65 - Section 35, T-17-S, R-34-E; Well #67 - Section 35, T-17-S, R-34-E, Lea County, New Mexico. The injection formation is Grayburg San Andres at a depth of 4800 feet below the surface of the ground. Expected maximum injection rate is 1,000 barrels per day, and expected 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 of this publication.



OFFSET OPERATORS
VACUUM GRAYBURG SAN ANDRES UNIT

Amoco Production Company
P. O. Box 1540
Midland, Texas, 79702

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas, 79762

Shell Oil Company
P. O. Box 576
Houston, Texas, 77001

Marathon Oil Company
P. O. Box 552
Midland, Texas, 79702

Exxon Company U.S.A.
P. O. Box 1600
Midland, Texas, 79702

Conoco, Inc.
Five Greenway Plaza East
Houston, Texas, 77001

OFFSET OPERATORS
CENTRAL VACUUM UNIT

ARCO
P. O. Box 1610
Midland, Texas, 79702

Bettis, Boyle, Stovall
P. O. Box 1168
Graham, Texas, 76046

Chevron USA, Inc.
P. O. Box 1660
Midland, Texas, 79702

Conoco, Inc.
Five Greenway Plaza East
Houston, Texas, 77001

Exxon Company U.S.A.
P. O. Box 1600
Midland, Texas, 79702

Getty Oil Company
P. O. Box 1231
Midland, Texas, 79702

Mobil Producing Texas & N.M., Inc.
P. O. Box 1800
Hobbs, New Mexico, 88240

Phillips Petroleum Company
4001 Penbrook
Odessa, Texas, 79762

Shell Oil Company
P. O. Box 576, Woodcreek
Houston, Texas, 77001

SURFACE TENANT

Scharbauer Cattle Company
P. O. Box 1471
Midland, Texas, 79702

DATA FOR WELLS WITHIN 2640'
OF PROPOSED INJECTION WELLS
 CENTRAL VACUUM UNIT WELLS
 NO. 155, 156, 157, 158, 159,
 160, & 161

<u>Well Name & Number</u>	<u>Formation Name</u>	<u>Total Depth</u>	<u>Date Drilled</u>	<u>Current Status</u>
Central Vacuum Unit #11	San Andres	4690	5-21-39	Oil - Active
#12	San Andres	4733	4-05-66	Oil - Active
#13	San Andres	4764	1-13-79	Injection - Active
#14	San Andres	4787	4-30-78	Injection - Active
#20	San Andres	4720	11-14-38	Oil - Active
#21	San Andres	4634	9-10-38	Oil - Active
#22	San Andres	4625	9-30-38	Oil - Active
#23	San Andres	4788	8-17-38	Oil - Active
#24	San Andres	4780	1-28-39	Oil - Active
#25	San Andres	4760	4-25-78	Injection - Active
#26	San Andres	4782	3-17-78	Injection - Active
#27	San Andres	4762	3-17-78	Injection - Active
#28	San Andres	4765	4-14-78	Injection - Active
#35	San Andres	4660	6-03-38	Oil - Active
#36	San Andres	4725	7-21-38	Oil - Active
#37	San Andres	4750	6-29-39	Oil - Active
#38	San Andres	4705	7-16-38	Oil - Active
#39	San Andres	4767	12-23-38	Oil - Active
#40	San Andres	4713	1-29-78	Injection - Active
#41	San Andres	4779	12-25-77	Injection - Active
#42	San Andres	4777	2-08-78	Injection - Active
#53	San Andres	4700	1-03-79	Oil - Active
#54	San Andres	4705	9-08-38	Oil - Active
#55	San Andres	4782	2-18-78	Injection - Active
#68	San Andres	4725	8-03-38	Oil - Active
#69	San Andres	4720	4-18-38	Oil - Active
#70	San Andres	4767	2-12-78	Injection - Active
#71	San Andres	4768	2-22-78	Injection - Active
#79	San Andres	4690	4-23-38	Oil - Active
#80	San Andres	4626	2-26-38	Oil - Active
#81	San Andres	4741	4-05-79	Injection - Active
#91	San Andres	4710	11-02-38	Oil - Active
#92	San Andres	4710	10-04-38	Oil - Active
#140	San Andres	4784	2-07-79	Injection - Active
#141	San Andres	4776	1-18-79	Injection - Active

DATA FOR WELLS WITHIN 2640'
OF PROPOSED INJECTION WELLS
VACUUM GRAYBURG SAN ANDRES UNIT
WELLS NO. 18, 61, 62, 63, 65, & 67

<u>Well Name & Number</u>	<u>Formation Name</u>	<u>Total Depth</u>	<u>Date Drilled</u>	<u>Current Status</u>
Vacuum Grayburg				
San Andres Unit #66	San Andres	4675	9-18-38	Oil - Active
#64	San Andres	4675	4-19-39	Oil - Active
#51	San Andres	4700	5-29-39	Oil - Active
#52	San Andres	4696	9-11-39	Oil - Active
#53	San Andres	4710	11-06-39	Oil - Active
#54	San Andres	4710	11-16-38	Oil - Active
#55	San Andres	4710	11-07-39	Oil - Active
#56	San Andres	4710	4-21-40	Oil - Active
#60	San Andres	4800	4-13-79	Injection - Active
#44	San Andres	4788	3-22-73	Injection - Active
#45	San Andres	4800	4-05-73	Injection - Active
#46	San Andres	4788	3-07-73	Injection - Active
#47	San Andres	4788	4-01-73	Injection - Active
#48	San Andres	4778	2-04-73	Oil - Active
#36	San Andres	4710	10-26-40	Oil - Active
#37	San Andres	4710	9-29-40	Oil - Active
#38	San Andres	4710	8-31-40	Oil - Active
#39	San Andres	4710	8-04-40	Oil - Active
#40	San Andres	4710	7-03-40	Oil - Active
#29	San Andres	4746	12-29-72	Injection - Active
#30	San Andres	4791	2-06-73	Injection - Active
#59	San Andres	4800	4-03-79	Injection - Active
West Vacuum				
Unit #13	San Andres	4630	11-27-39	Oil - Active
#20	San Andres	4710	8-22-39	Injection - Active
#21	San Andres	4785	12-08-38	Oil - Active
#28	San Andres	4690	7-01-39	Oil - Active
#29	San Andres	4710	11-20-38	Oil - Active
#36	San Andres	4685	4-24-39	Injection - Active
#37	San Andres	4675	2-10-39	Oil - Active
#45	San Andres	4775	11-11-39	Oil - Active
#46	San Andres	4773	4-23-39	Oil - Active
#49	San Andres	4800	9-17-51	Oil - Active
#50	San Andres	4822	2-13-52	Oil - Active

DATA FOR WELLS WITHIN 2640'
OF PROPOSED INJECTION WELLS
LOCATION: T-17-R-34-E, SECTION 35

<u>Well Name & Number</u>	<u>Formation Name</u>	<u>Total Depth</u>	<u>Date Drilled</u>	<u>Current Status</u>
<u>PHILLIPS OPERATED</u>				
M. E. Hale #1	San Andres	4500	1-29-38	Oil - Active
#2	San Andres	4774	12-06-38	Oil - Active
#3	San Andres	4552	12-25-38	Oil - T.A.
#4	San Andres	4744	7-08-39	Oil - Active
#5	San Andres	4699	5-10-39	Oil - Active
#6	San Andres	4721	1-24-40	Oil - Active
#8	San Andres	4585	3-11-64	Oil - Active
#9	San Andres	4654	6-10-64	Oil - Active
#10	San Andres	6200	12-15-69	Oil - Active
Mable #1	San Andres	4716	11-26-38	Oil - Active
#2	San Andres	4600	7-01-39	Oil - Active
#3	San Andres	4747	4-08-69	Oil - Active
<u>CONOCO OPERATED</u>				
"H" #1	San Andres	4698	4-15-38	Oil - Active
#2	San Andres	4744	10-19-38	Oil - Active
#3	San Andres	4696	12-16-38	Oil - Active
#4	San Andres	4735	2-01-39	Oil - T.A.
#5	San Andres	4695	3-16-39	Oil - Active
#6	San Andres	4745	5-16-39	Oil - Active
#10	San Andres	4438	1-21-64	Oil - T.A.

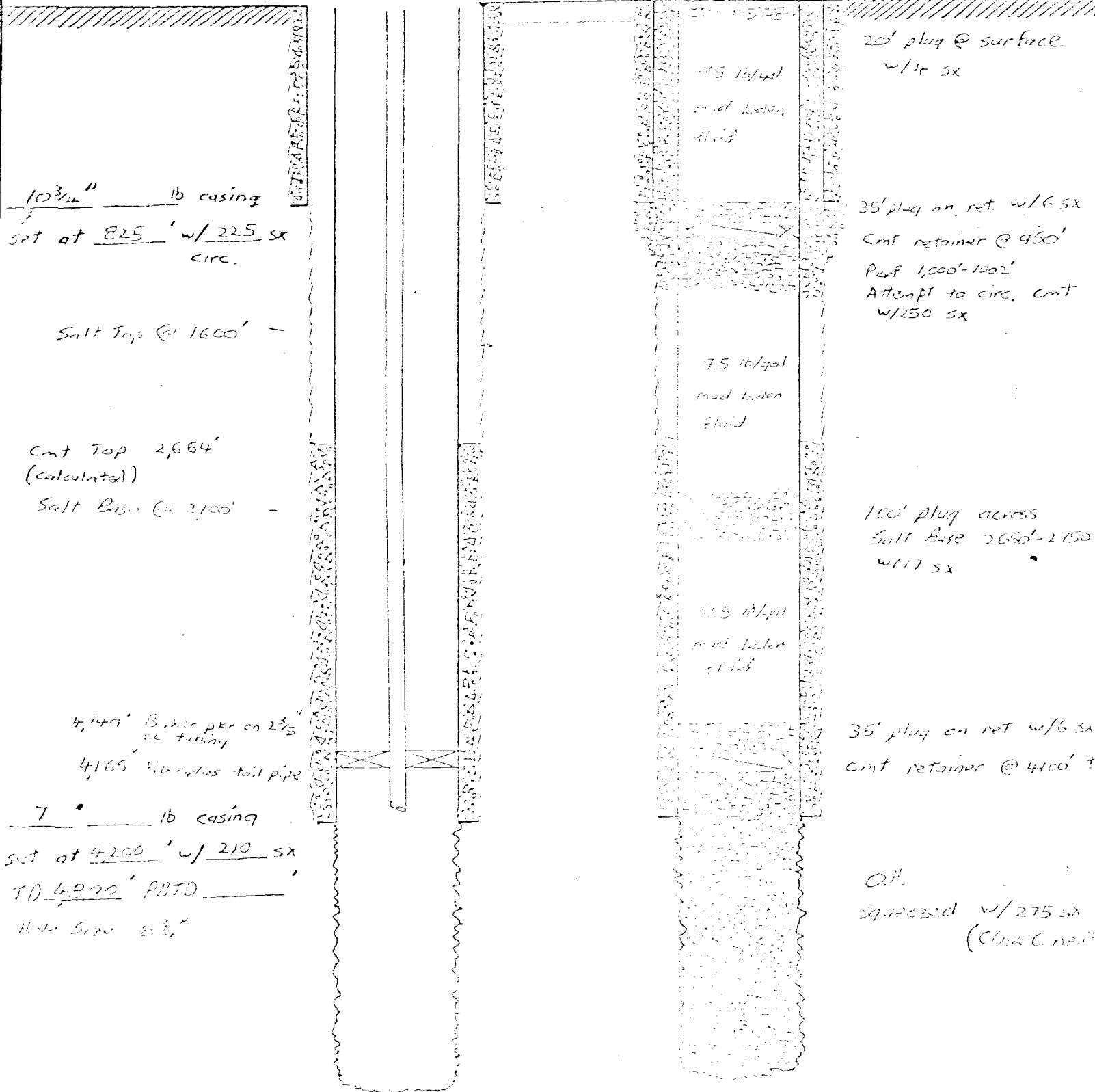
DATA FOR WELLS WITHIN 2640'
OF PROPOSED INJECTION WELLS

<u>Well Name & Number</u>	<u>Formation Name</u>	<u>Total Depth</u>	<u>Date Drilled</u>	<u>Current Status</u>
<u>MOBIL OPERATED</u>				
Bridges State #16*	San Andres	4750	10-27-38	Oil - Active
#17*	San Andres	4890	10-25-38	Injection - P&A
#32*	San Andres	6580	6-16-39	Injection - Active
#36*	San Andres	5000	6-14-71	Oil - Active
#178*	San Andres	4741	2-02-74	Oil - Active
#176*	San Andres	4802	1-01-74	Oil - Active
#105**	San Andres	5958	4-22-65	Injection - Active
#30**	San Andres	6330	5-12-39	Injection - Active
#25**	San Andres	4750	3-01-39	Oil - Active
#33**	San Andres	4776	6-12-39	Oil - Active
#12**	San Andres	4725	8-09-38	Oil - Active
#15**	San Andres	4750	9-07-38	Oil - Active

* Location: T-17, R-34-E, Section 25.

**Location: T-17, R-34-E, Section 26.

Full Vacuum G/San Antonio	Date 11/3/77	T.O. Date 10/22/76
Leased: Bridges State	No. 17	County & State: Dona Ana, New Mexico
Location: A-25-175-34E	Completion Date: 10/38	EL: 211 E/DU



APPLICATION FOR AUTHORIZATION TO INJECT

- I. Purpose: ☐ Secondary Recovery ☒ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☒ yes ☐ no
- II. Operator: TEXACO Inc.
Address: P. O. Box 728, Hobbs, New Mexico, 88240
Contact party: J. V. Gannon Phone: (505) 393-7191
- 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 R-4442 (VGSAU) &
If yes, give the Division order number authorizing the project R-5530 (CVU)
- 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:
1,000 1,500
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 psi
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.
- * 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: J. A. Schaffer Title Asst. District Manager
Signature: [Signature] Date: 10-22-82
- * 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. *Vacuum Grayburg San Andres Unit #18 logs were filed February, 1973, and other well's logs will be filed as soon as drilled.
- 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.

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.

INJECTION WELL DATA SHEET

OPERATOR		LEASE		
TEXACO Inc.		Vacuum Grayburg San Andres Unit		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
18	1330' FSL & 1330' FWL	1	18-S	34-E

SchematicTabular DataSurface CasingSize 8-5/8 " Cemented with 210 sx.TOC Circ. feet determined by VisualHole size 11"Intermediate Casing

Size _____ " Cemented with _____ sx.

TOC _____ feet determined by _____

Hole size _____

Long stringSize 5-1/2 " Cemented with 500 sx.TOC 2757 feet determined by CalculationHole size 7-7/8"Total depth 4710'Injection interval4311 feet to 4735 feet
(perforated or open-hole, indicate which)Tubing size 2-3/8" lined with Plastic coating set in a
(material)Baker Lok-Set Nickel Plated packer at + 4250 feet
(brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Vacuum Grayburg San Andres
- Name of Field or Pool (if applicable) Vacuum
- Is this a new well drilled for injection? ☐ Yes ☒ No
If no, for what purpose was the well originally drilled? Oilwell
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Glorieta - 5815'; Blinberry Marker - 6585'; Abo North - 7896'; Wolfcamp - 9260'; Pennsylvanian - 10,088'; Devonian - 11,926'

Typical INJECTION WELL DATA SHEET

OPERATOR		LEASE		
TEXACO Inc.		Vacuum Grayburg San Andres Unit		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
63	50' FNL & 2630' FEL	2	18-S	34-E

Schematic

Tabular Data

Surface Casing

Size 16" " Cemented with 500 sx.
 TOC Circ. feet determined by Visual
 Hole size 20"

1st. Intermediate Casing

Size 11-3/4 " Cemented with 1350 sx.
 TOC Circ. feet determined by Visual
 Hole size 15"

2nd. Intermediate Casing

~~XXXXXXXXXX~~
 Size 8-5/8" " Cemented with 1200 sx.
 TOC Circ. feet determined by Visual
 Hole size 11"

~~XXXXXXXXXX~~

Injection interval

4380 feet to 4730 feet
 (perforated or open-hole, indicate which)

Long String

Size 5-1/2 " Cemented with 1350 sx
 TOC Circ. feet determined by Visual
 Hole Size 7-7/8"
 Total Depth 4800'

Tubing size 2-3/8" lined with Plastic coating set in a
 (material)

Baker Lok-Set Nickel Plated packer at ± 4340 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Vacuum Grayburg San Andres
- Name of Field or Pool (if applicable) Vacuum
- Is this a new well drilled for injection? ☒ Yes ☐ No
 If no, for what purpose was the well originally drilled? _____
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area. Glorieta - 5815'; Blinbry Marker - 6585'; Abo North - 7896'; Wolfcamp - 9260'; Pennsylvanian - 10,088'; Devonian - 11,926'.

Typical INJECTION WELL DATA SHEET

OPERATOR		LEASE		
TEXACO Inc.		Central Vacuum Unit		
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE
158	100' FNL & 150' FWL	36	17-S	34-E

Schematic

Tabular Data

Surface Casing

Size 16 " Cemented with 650 sx.
 TOC Circ. feet determined by Visual
 Hole size 20"

Intermediate Casing

Size 11-3/4 " Cemented with 1200 sx.
 TOC Circ. feet determined by Visual
 Hole size 15"

Long string

Size 5-1/2 " Cemented with 1350 sx.
 TOC Circ. feet determined by Visual
 Hole size 15"

Total depth 4800'

Injection interval

4380 feet to 4730 feet
 (perforated or open-hole, indicate which)

Tubing size 2-3/8" lined with Plastic coating set in a
 (material)

Baker Lok-Set Nickel Plated packer at + 4340 feet
 (brand and model)

(or describe any other casing-tubing seal).

Other Data

- Name of the injection formation Vacuum Grayburg San Andres
- Name of Field or Pool (if applicable) Vacuum
- Is this a new well drilled for injection? ☒ Yes ☐ No
 If no, for what purpose was the well originally drilled? _____
- Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
- Give the depth to and name of any overlying and/or underlving oil or gas zones (pools) in this area. Glorieta - 5815'; Blinbry Marker - 6585'; Abo North - 7896'; Wolfcamp - 9260'; Pennsylvanian - 10,088'; Devonian - 11,926'.

VGSAU #18

PROPOSED INJECTION WELL

LEA COUNTY, N.M.

5-12-82

DF = 9' AGL 4002 ASL

12 1/4" HOLE - 8 5/8"; 20" CASING

SET @ 354'

CEMENT CIRCULATED

2 3/8" INT. PLASTIC COATED TUBING

SET IN PACKER

@ APPROX. 4250'

Pressure limiting valve to be
installed at surface to limit
injection pressure to 0.2 psi per
foot of depth.

7 7/8" HOLE - 5 1/2"; 14" CASING

SET @ 4800'

CEMENT TOP @ 2757'

(CALC. 60% FILL)

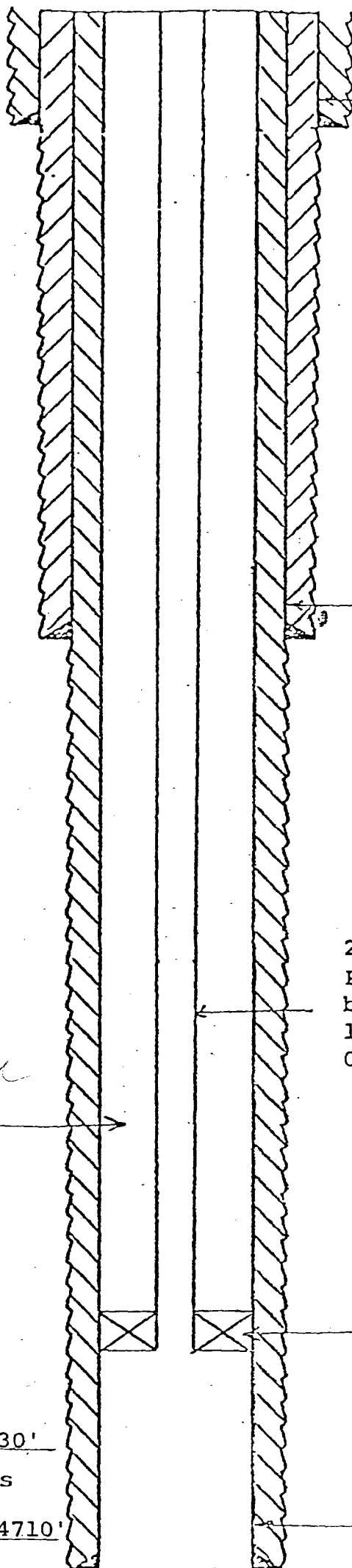
VGSA
PERFS

Baker Loc-set

PACKER SET APPROX. 50' ABOVE
TOP PERF.

4311' - 4735'

PBTD 4788'
TD 4800'



11-3/4" Csg. set @ 350'
Circulate Cement.

8-5/8" Csg. set @ 1520'
Circulate Cement.

2-3/8" Plastic Coated Tubing.
Pressure limiting valve to
be installed at surface to
limit injection pressure to
0.2 psi per foot of depth.

Packer to be set within
50' of top perforation
(@ ± 4490')

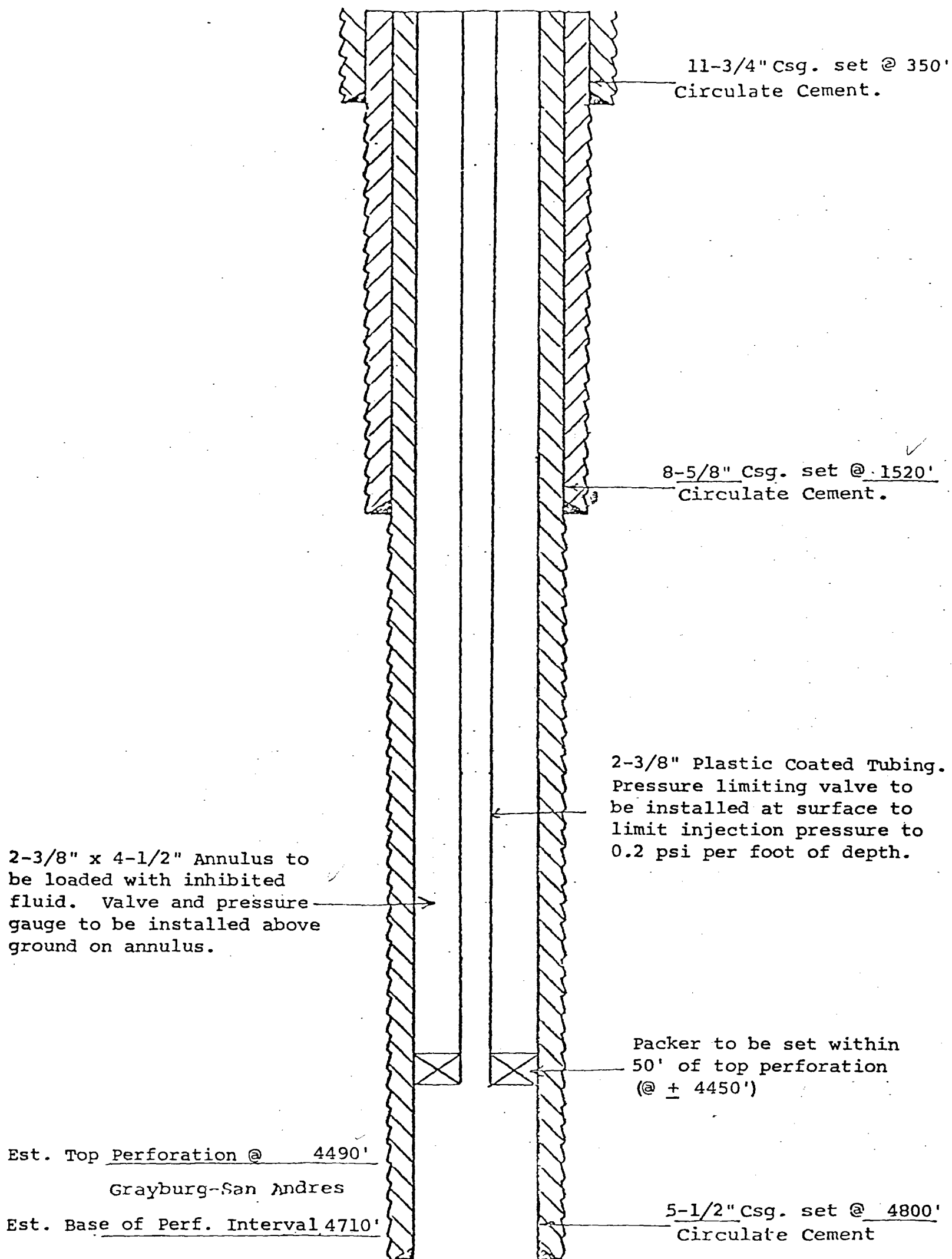
5-1/2" Csg. set @ 4800'
Circulate Cement

2-3/8" x 4-1/2" Annulus to
be loaded with inhibited
fluid. Valve and pressure
gauge to be installed above
ground on annulus.

Est. Top Perforation @ 4530'
Grayburg-San Andres

Est. Base of Perf. Interval 4710'

PROPOSED INJECTION WELLS
VACUUM GRAYBURG SAN ANDRES UNIT
WELL NO. 61
VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



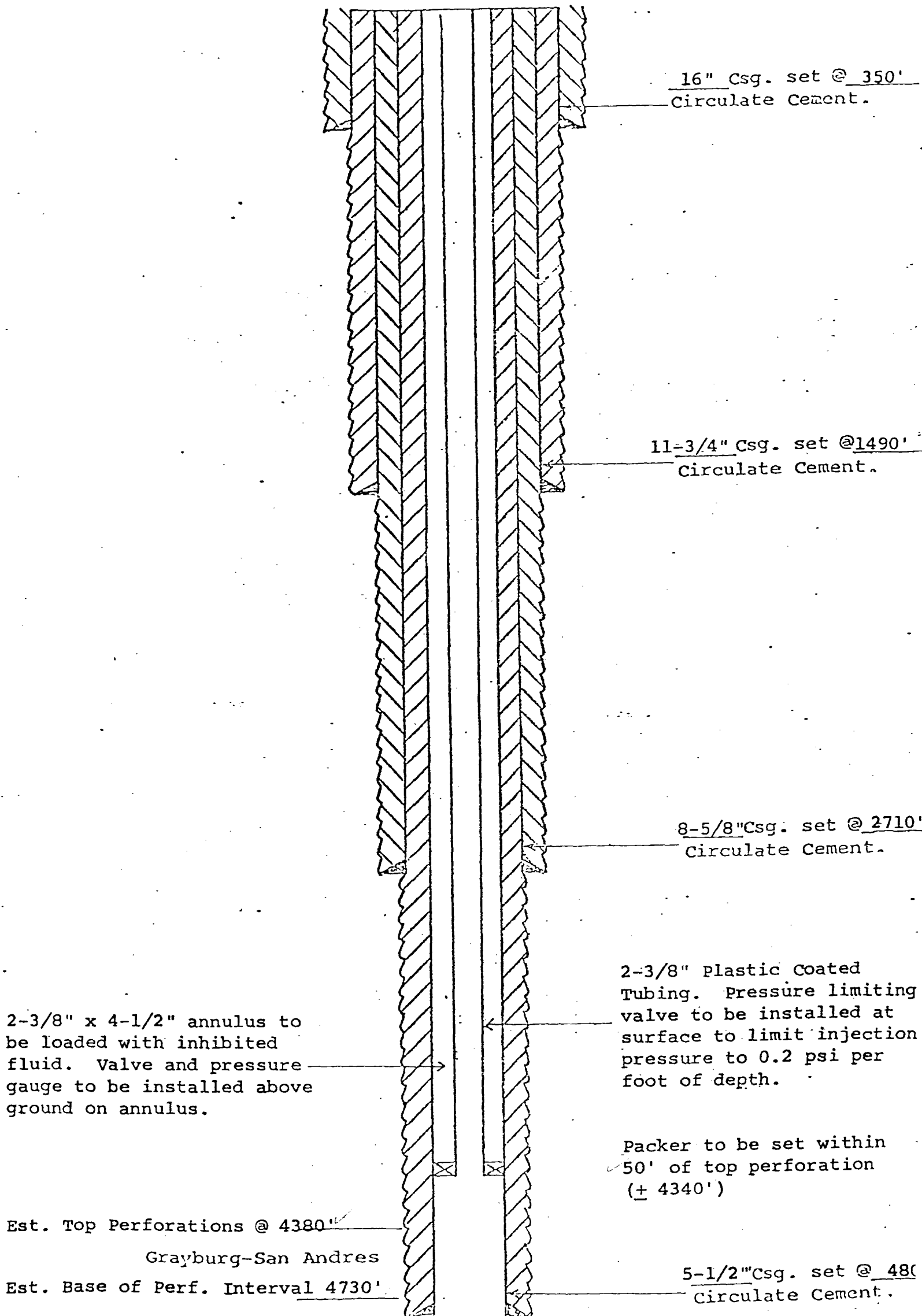
PROPOSED INJECTION WELLS

VACUUM GRAYBURG SAN ANDRES UNIT

WELL NO. 62

VACUUM GRAYBURG-SAN ANDRES FIELD

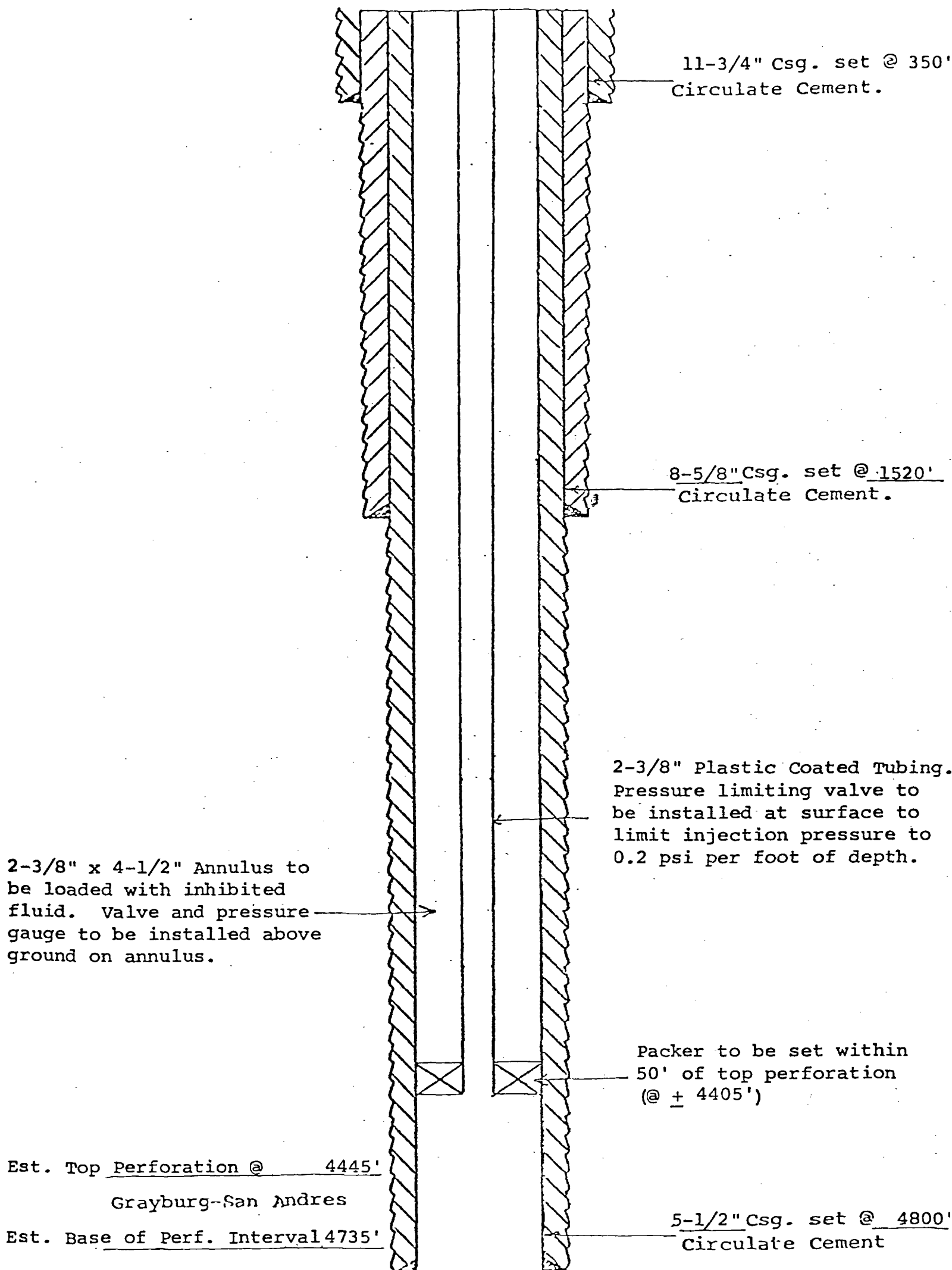
LEA COUNTY, NEW MEXICO



PROPOSED INJECTION WELLS

VACUUM GRAYBURG SAN ANDRES UNIT
WELL NO. 63

VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



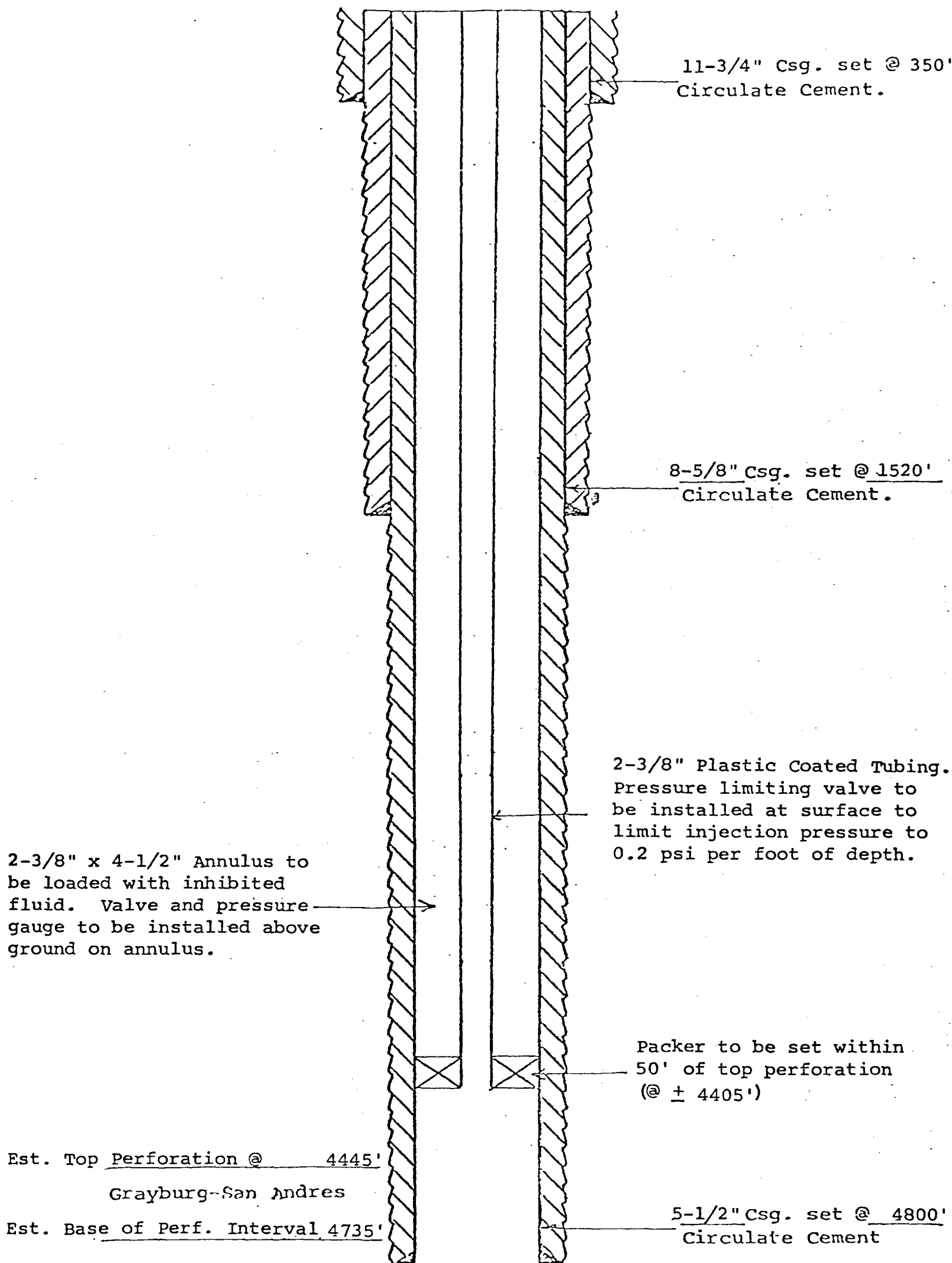
PROPOSED INJECTION WELLS

VACUUM GRAYBURG SAN ANDRES UNIT

WELL NO. 65

VACUUM GRAYBURG-SAN ANDRES FIELD

LEA COUNTY, NEW MEXICO



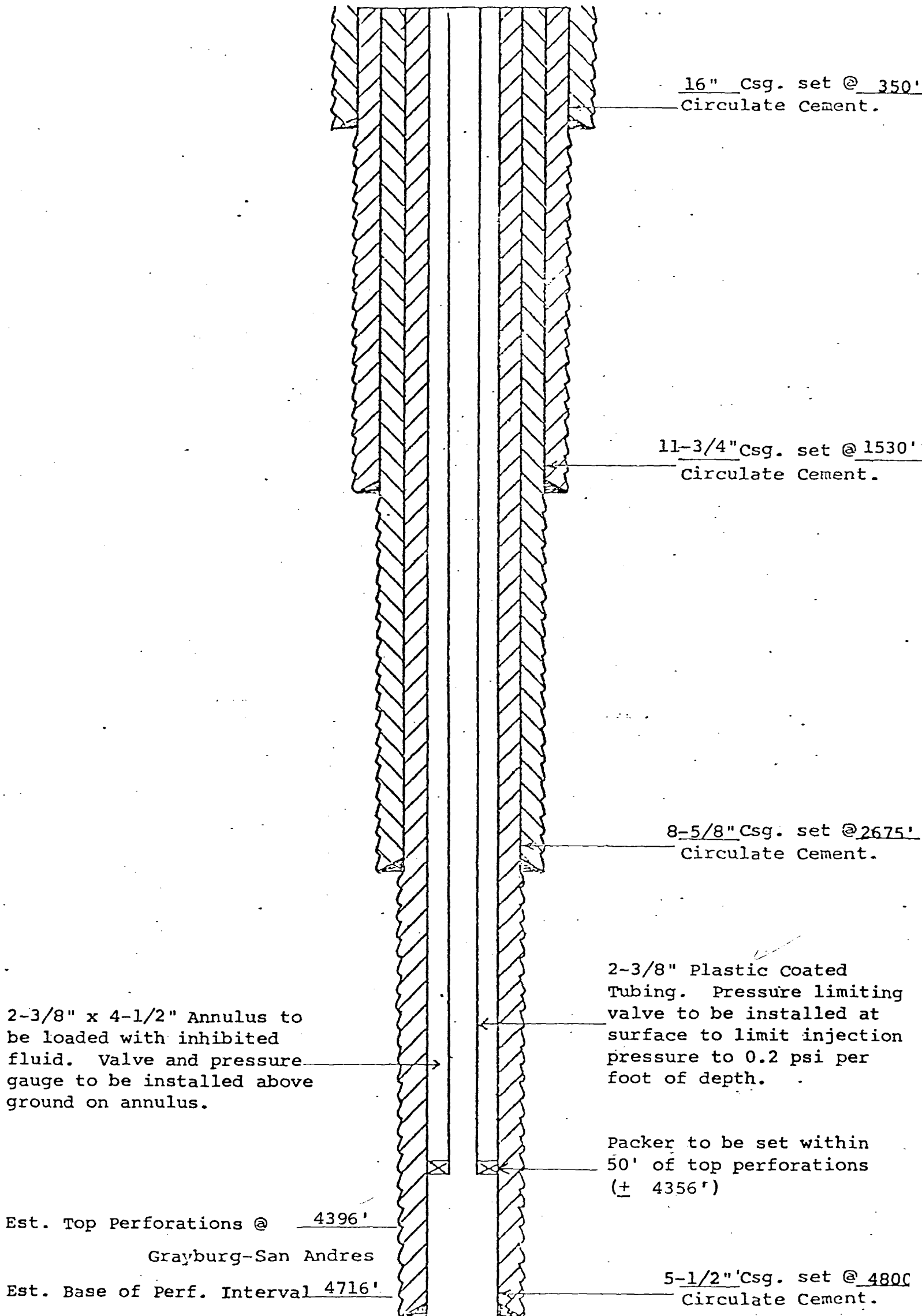
PROPOSED INJECTION WELLS

VACUUM GRAYBURG SAN ANDRES UNIT

WELL NO. 67

VACUUM GRAYBURG-SAN ANDRES FIELD

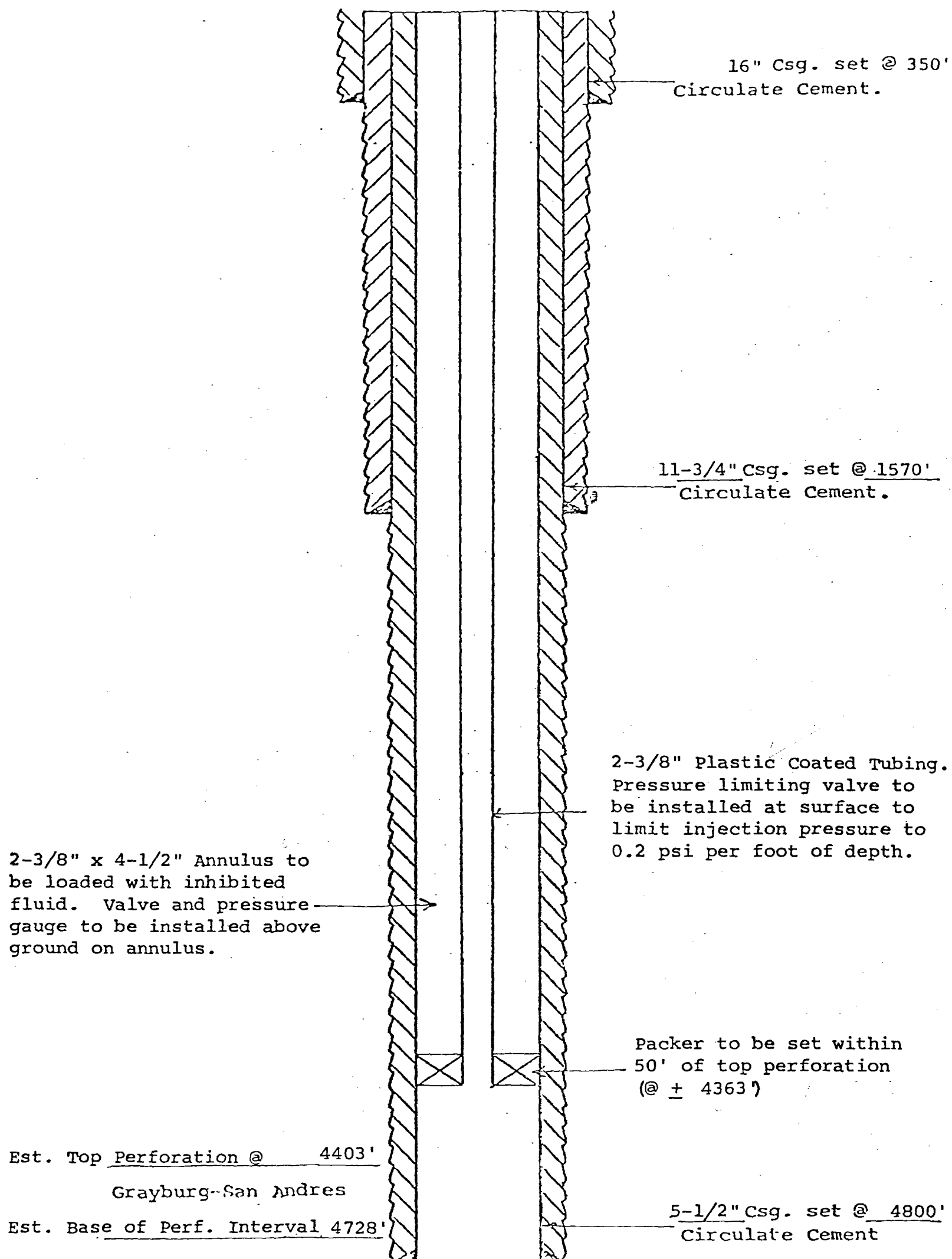
LEA COUNTY, NEW MEXICO



PROPOSED INJECTION WELLS

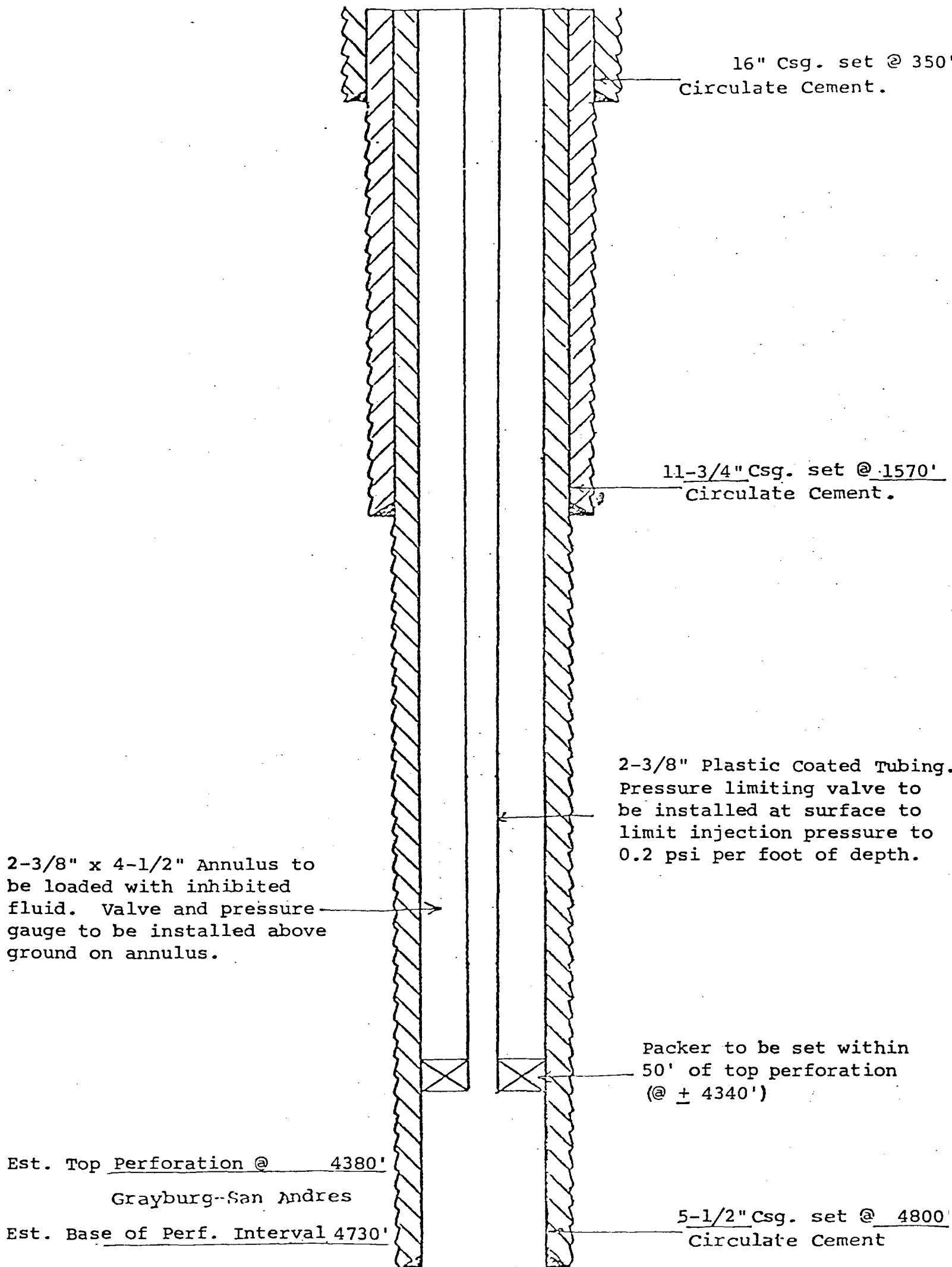
CENTRAL VACUUM UNIT
WELL NO. 155

VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



PROPOSED INJECTION WELLS

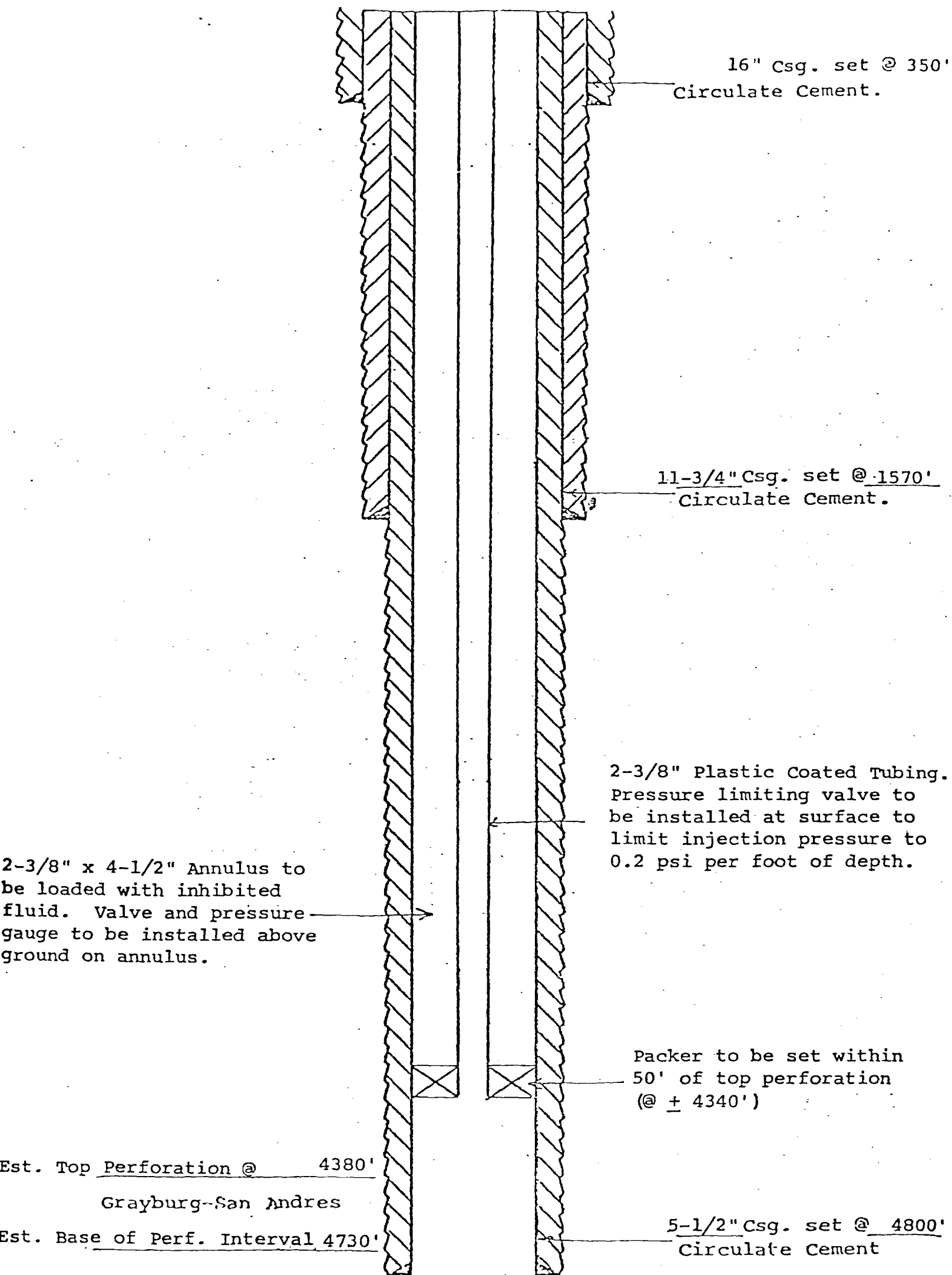
CENTRAL VACUUM UNIT
WELL NO. 156
VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



PROPOSED INJECTION WELLS

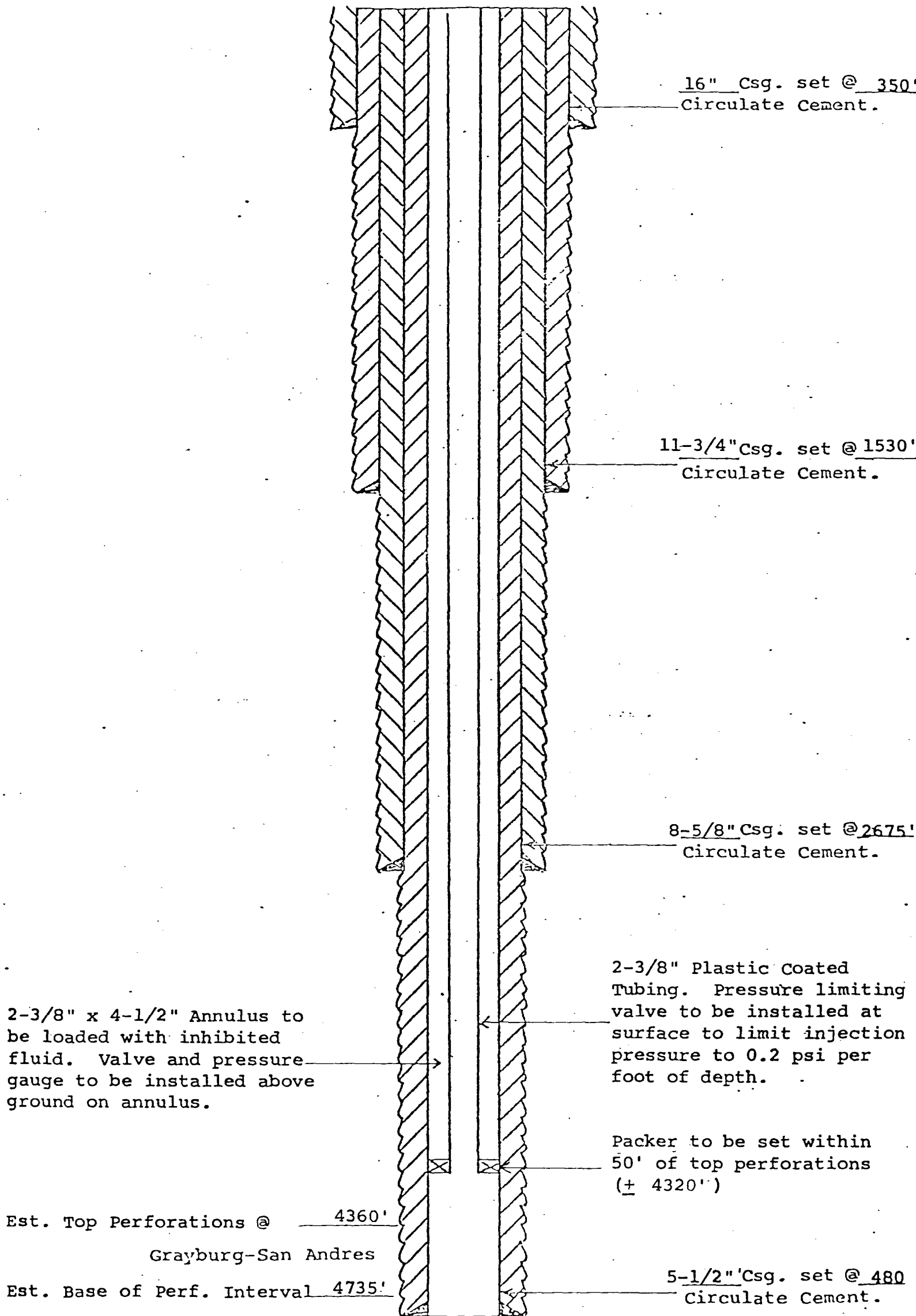
CENTRAL VACUUM UNIT
WELL NO. 157

VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



PROPOSED INJECTION WELLS

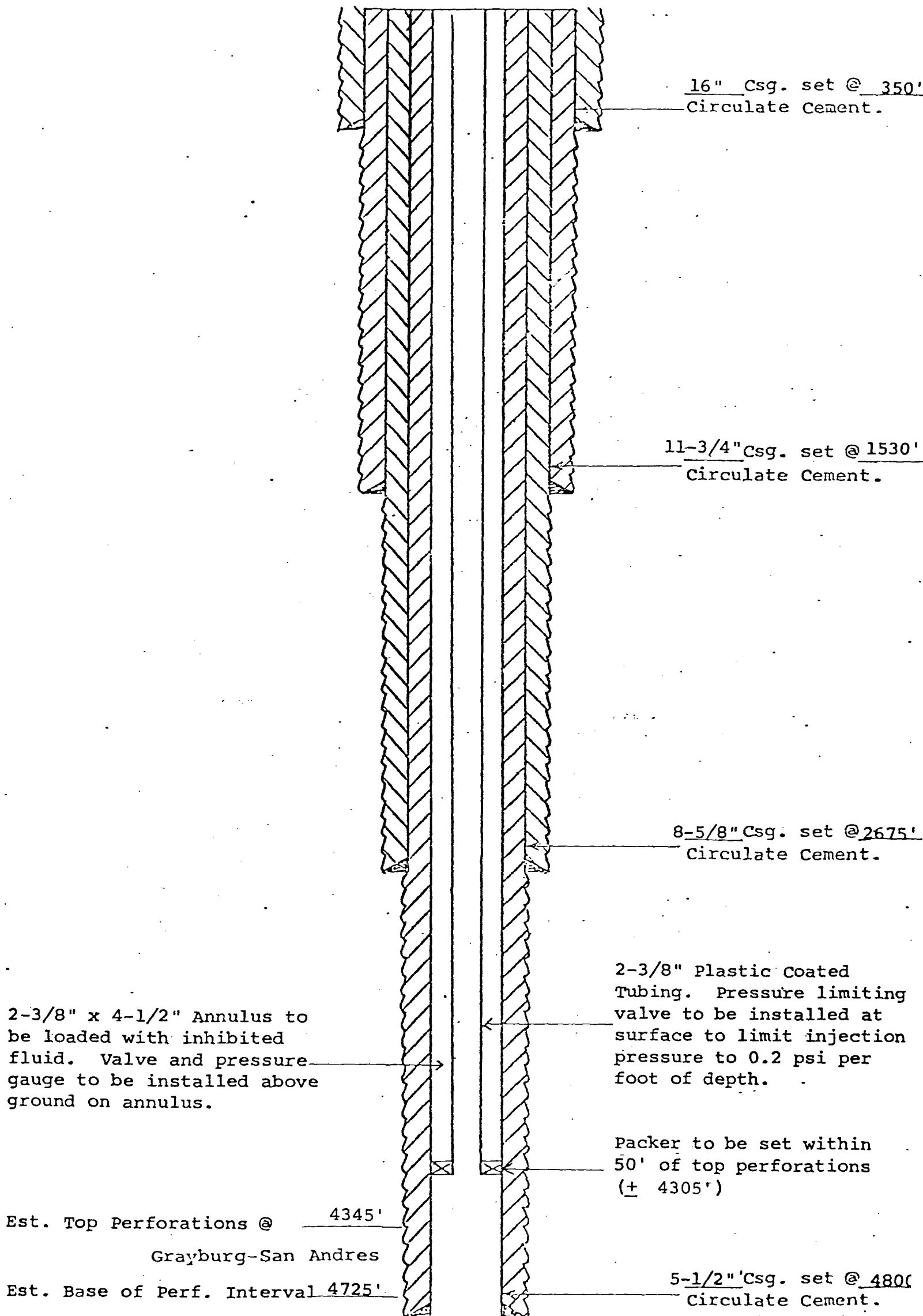
CENTRAL VACUUM UNIT
WELL NO. 158
VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



PROPOSED INJECTION WELLS

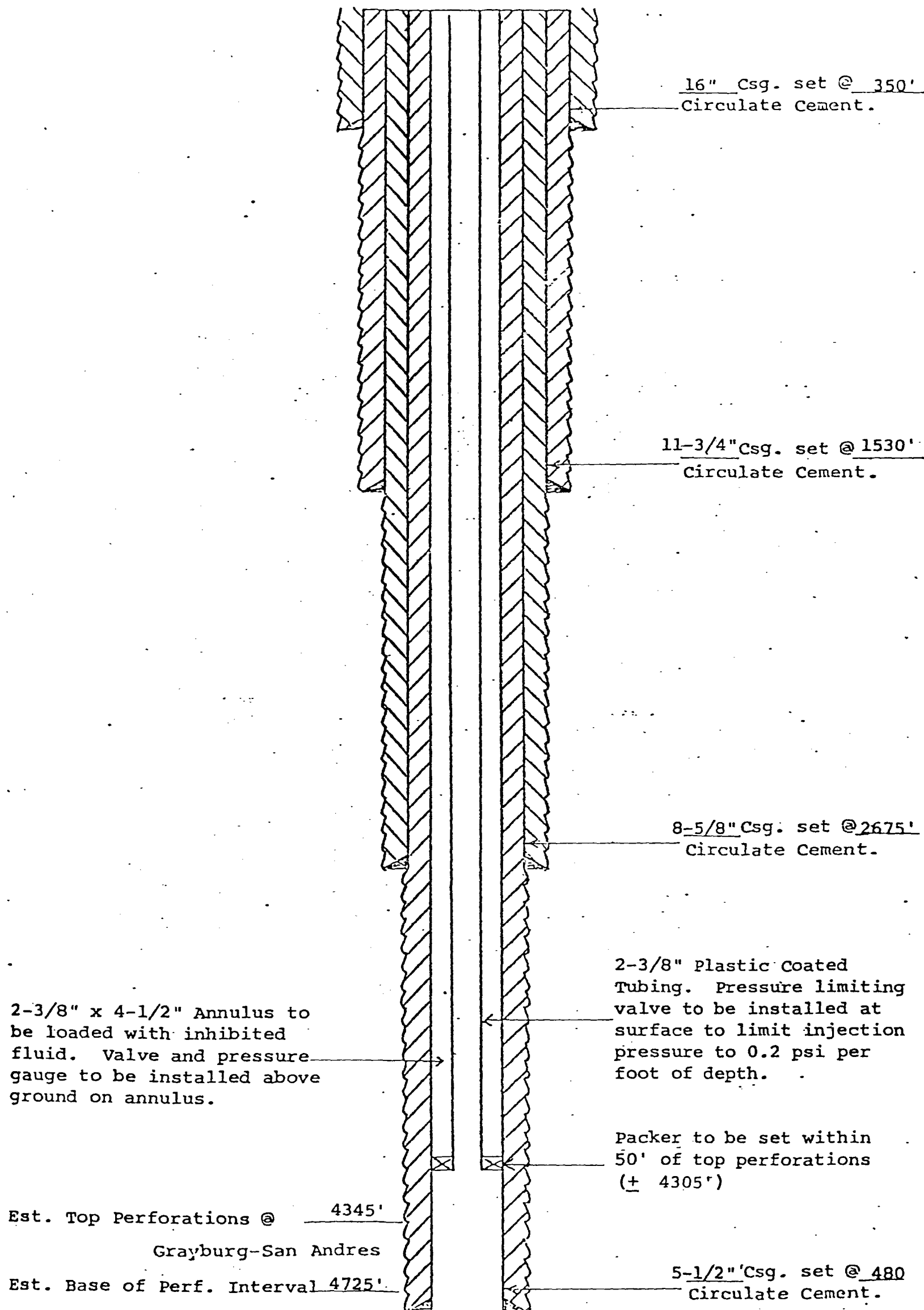
CENTRAL VACUUM UNIT
WELL NO. 159

VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



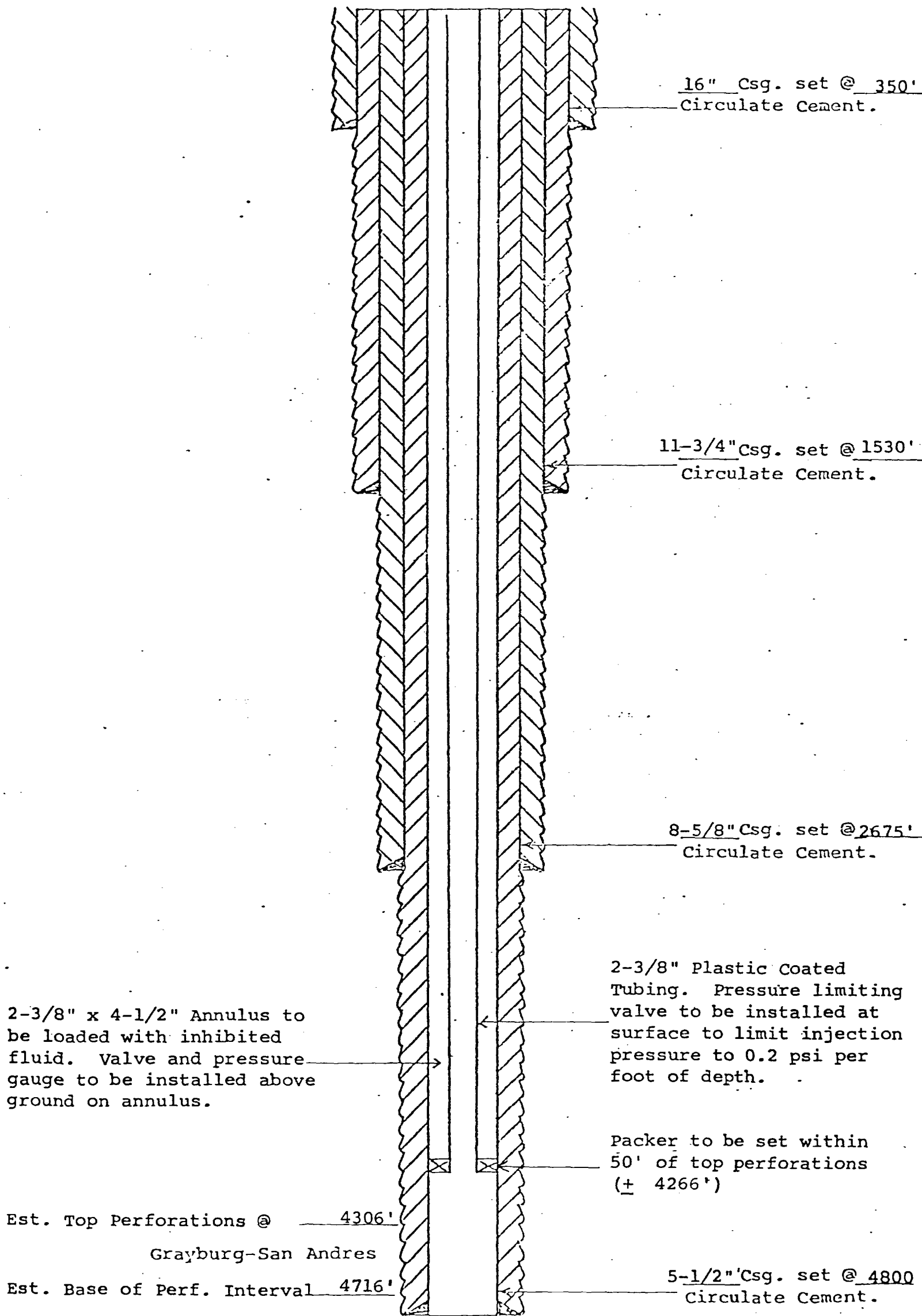
PROPOSED INJECTION WELLS

CENTRAL VACUUM UNIT
WELL NO. 160
VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO



PROPOSED INJECTION WELLS

CENTRAL VACUUM UNIT
WELL NO. 160
VACUUM GRAYBURG-SAN ANDRES FIELD
YEA COUNTY NEW MEXICO



PROPOSED INJECTION WELLS

CENTRAL VACUUM UNIT
WELL NO. 161

VACUUM GRAYBURG-SAN ANDRES FIELD
LEA COUNTY, NEW MEXICO

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
(CONSULT POSTMASTER FOR FEES)	
1. The following service is requested (check one). ☒ Show to whom and date delivered <u>60</u> ☐ Show to whom, date, and address of delivery.. <u>—</u> ☐ RESTRICTED DELIVERY <u>—</u> (The restricted delivery fee is charged in addition to the return receipt fee.)	
TOTAL \$ <u>60</u>	
2. ARTICLE ADDRESSED TO: Marathon Oil Company P. O. Box 552 Midland, TX. 79702	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COB ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 630
(Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
(CONSULT POSTMASTER FOR FEES)	
1. The following service is requested (check one). ☒ Show to whom and date delivered <u>60</u> ☐ Show to whom, date, and address of delivery.. <u>—</u> ☐ RESTRICTED DELIVERY <u>—</u> (The restricted delivery fee is charged in addition to the return receipt fee.)	
TOTAL \$ <u>60</u>	
3. ARTICLE ADDRESSED TO: Exxon Company U.S.A. P. O. Box 1600 Midland, Texas, 79702	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COB ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 629
(Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
(CONSULT POSTMASTER FOR FEES)	
1. The following service is requested (check one). ☒ Show to whom and date delivered <u>60</u> ☐ Show to whom, date, and address of delivery.. <u>—</u> ☐ RESTRICTED DELIVERY <u>—</u> (The restricted delivery fee is charged in addition to the return receipt fee.)	
TOTAL \$ <u>60</u>	
3. ARTICLE ADDRESSED TO: Shell Oil Company P. O. Box 576 - Woodcreek Houston, TX. 77001	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COB ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 628
(Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
(CONSULT POSTMASTER FOR FEES)	
1. The following service is requested (check one). ☒ Show to whom and date delivered <u>60</u> ☐ Show to whom, date, and address of delivery.. <u>—</u> ☐ RESTRICTED DELIVERY <u>—</u> (The restricted delivery fee is charged in addition to the return receipt fee.)	
TOTAL \$ <u>60</u>	
3. ARTICLE ADDRESSED TO: Mobil Producing Texas & NM Inc. P. O. Box 1800 Hobbs, NM, 88240	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COB ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 627
(Always obtain signature of addressee or agent) I have received the article described above. SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

PS Form 3811, Dec 1988

● SENDER: Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered 60¢
☐ Show to whom, date, and address of delivery.. —¢
☐ RESTRICTED DELIVERY
 (The restricted delivery fee is charged in addition to the return receipt fee.) —¢

TOTAL \$.60

3. ARTICLE ADDRESSED TO:
 CONOCO, Inc.
 Five Greenway Plaza East
 Houston, TX. 77001

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED P 267 162 635
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

PS Form 3811, Dec 1988

● SENDER: Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered 60¢
☐ Show to whom, date, and address of delivery.. —¢
☐ RESTRICTED DELIVERY
 (The restricted delivery fee is charged in addition to the return receipt fee.) —¢

TOTAL \$.60

3. ARTICLE ADDRESSED TO:
 Getty Oil Company
 P. O. Box 1231
 Midland, TX. 79702

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED P 267 162 634
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

PS Form 3811, Dec 1988

● SENDER: Complete items 1, 2, 3, and 4.
Add your address in the "RETURN TO" space on reverse.

(CONSULT POSTMASTER FOR FEES)

1. The following service is requested (check one).
☒ Show to whom and date delivered 60¢
☐ Show to whom, date, and address of delivery.. —¢
☐ RESTRICTED DELIVERY
 (The restricted delivery fee is charged in addition to the return receipt fee.) —¢

TOTAL \$.60

3. ARTICLE ADDRESSED TO:
 Amoco Production Company
 P. O. Box 1540
 Midland, TX. 79702

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED P 267 162 633
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

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 (The restricted delivery fee is charged in addition to the return receipt fee.) —¢

TOTAL \$.60

3. ARTICLE ADDRESSED TO:
 Phillips Petroleum Company
 4001 Penbrook
 Odessa, TX. 79762

4. TYPE OF SERVICE: ARTICLE NUMBER
☐ REGISTERED ☐ INSURED P 267 162 632
☒ CERTIFIED ☐ COD
☐ EXPRESS MAIL

(Always obtain signature of addressee or agent)
 I have received the article described above.
 SIGNATURE ☐ Addressee ☐ Authorized agent

5. DATE OF DELIVERY POSTMARK

6. ADDRESSEE'S ADDRESS (Only if requested)

7. UNABLE TO DELIVER BECAUSE: 7a. EMPLOYEE'S INITIALS

RETURN RECEIPT, REGISTERED, INSURED AND CERTIFIED MAIL

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(CONSULT POSTMASTER FOR FEES) 1. The following service is requested (check one). ☒ Show to whom and date delivered <u>60¢</u> ☐ Show to whom, date, and address of delivery .. <u>—¢</u> 2. ☐ RESTRICTED DELIVERY (The restricted delivery fee is charged in addition to the return receipt fee.)	
TOTAL \$.60	
3. ARTICLE ADDRESSED TO: ARCO P. O. Box 1610 Midland, TX. 79702	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COD ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 638
(Always obtain signature of addressee or agent) I have received the article described above.	
SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
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TOTAL \$.60	
3. ARTICLE ADDRESSED TO: Scharbauer Cattle Co. P. O. Box 1471 Midland, Texas 79702	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COD ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 639
(Always obtain signature of addressee or agent) I have received the article described above.	
SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
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TOTAL \$.60	
3. ARTICLE ADDRESSED TO: Bettis, Boyle, & Stovall P. O. Box 1168 Graham, TX. 76046	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COD ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 637
(Always obtain signature of addressee or agent) I have received the article described above.	
SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

● SENDER: Complete items 1, 2, 3, and 4. Add your address in the "RETURN TO" space on reverse.	
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TOTAL \$.60	
3. ARTICLE ADDRESSED TO: Chevron USA, Inc. P. O. Box 1660 Midland, TX. 79702	
4. TYPE OF SERVICE: ☐ REGISTERED ☐ INSURED ☒ CERTIFIED ☐ COD ☐ EXPRESS MAIL	ARTICLE NUMBER P 267 162 636
(Always obtain signature of addressee or agent) I have received the article described above.	
SIGNATURE ☐ Addressee ☐ Authorized agent	
5. DATE OF DELIVERY	POSTMARK
6. ADDRESSEE'S ADDRESS (Only if requested)	
7. UNABLE TO DELIVER BECAUSE:	7a. EMPLOYEE'S INITIALS

OIL CONSERVATION DIVISION
DISTRICT I

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87504

DATE November 2, 1982

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

NOV 11 1982

SANTA FE

Gentlemen:

I have examined the application for the:

Texaco Inc. Vacuum Grayburg SA Unit & Central Vacuum Unit (for wells see below)
Operator _____ Lease and Well No. _____ Unit, S - T - R _____

and my recommendations are as follows:

Vacuum Gray., SA Unit #18, 61, 62, 63, 65, & 67

Central Vacuum Unit #155, 156, 157, 158, 159, 160, 161

*I do not approve
of this lease
[Signature]*

O.K.-----J.S.

Yours very truly,

/mc

R-34-E

NORTH VACUUM ABO UNIT

R-35-E

