



PETROLEUM PRODUCTS

PRODUCING DEPARTMENT

October 21, 1980

TEXACO
U.S.A.
A DIVISION OF TEXACO INC.
P. O. BOX 3109
MIDLAND, TEXAS 79702

APPLICATION FOR UNIT EXPANSION
VACUUM GRAYBURG-SAN ANDRES UNIT
VACUUM FIELD
LEA COUNTY, NEW MEXICO

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

Attention: Mr. Joe D. Ramey

Gentlemen:

Texaco Inc. respectfully requests administrative approval to expand the project area of the Vacuum Grayburg-San Andres Unit as authorized by Commission Order No. R-4442, Rule 7, dated November 27, 1972. The requested expansion will add Texaco's 80 acre New Mexico "S" State Lease, located in the W/2 of the SW/4 of Section 35, T-17-S, R-34-E, Lea County, New Mexico, to the Vacuum Grayburg San Andres Unit.

Please find attached the following supportive exhibits:

1. Base Map
2. Map depicting proposed expansion
3. Map outlining all wells within 1/2 mile of the proposed unit boundary
4. List of all wells within the 1/2 mile area that penetrate the San Andres formation, showing casing, sacks of cement, and cement tops
5. Schematics of each plugged and abandoned well within the 1/2 mile area, showing the locations of plugs
6. Schematic of Proposed Future Injection Wells

OCT 23 1980
CLERK OF COURTS
SANTA FE

October 21, 1980

The operators of the leases in Section 35, T-17-S, R-34-E, were unable to reach agreement on unitization for secondary recovery purposes, and each will carry out secondary recovery operations on its own lease. Presently, the possibility of lease line agreements for the drilling of cooperative injection is being discussed. It is anticipated that such drilling would take place in the first half of 1981, pending acceptance of the agreements and adequate water supply. Texaco wishes to expand the boundaries of the Vacuum Grayburg-San Andres Unit to include the New Mexico "S" State lease to facilitate efficient operations.

Texaco is a 100% working interest owner in the N.M. "S" State lease, with the State of New Mexico the only royalty interest owner, as is the case with the original leases that went into the Vacuum Grayburg-San Andres Unit.

Yours very truly,

Alan R. McDaniel
Division Manager

By


G. F. Clarke
Assistant Division Manager

RJA/lit

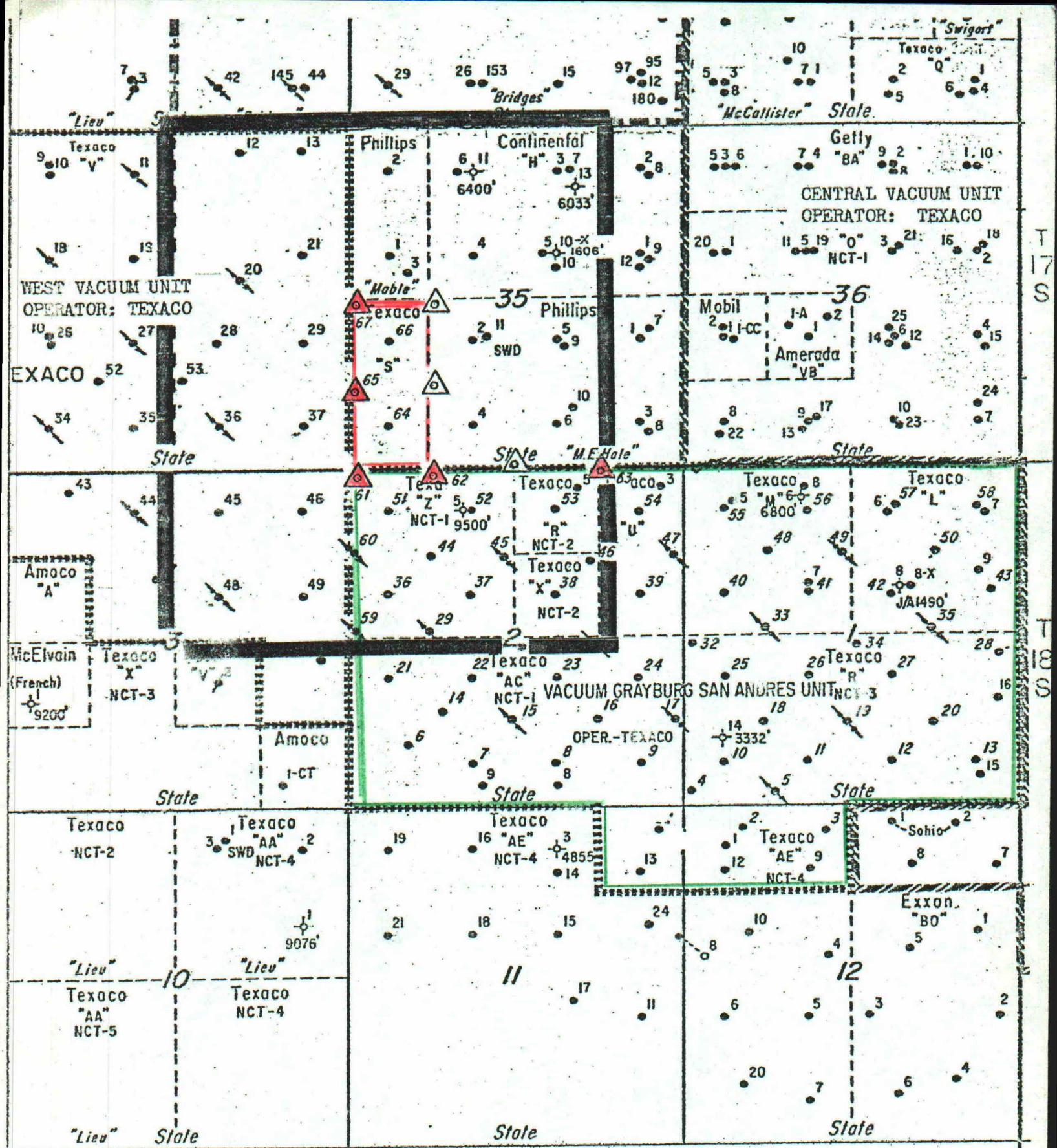
Attachments

cc: State of New Mexico
Department of Energy & Minerals
Oil Conservation Division
P. O. Box 1980
Hobbs, NM 88240

Conoco Inc.
P. O. Box 460
Hobbs, NM 88240

Phillips Petroleum Company
4001 Penbrook
Odessa, TX 79762

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE



R-34-E

TEXACO Inc.

PROPOSED

WATERFLOOD EXPANSION

VACUUM GRAYBURG SAN ANDRES UNIT

VACUUM (G-SA) FIELD

LEA COUNTY, NEW MEXICO

-  CURRENT BOUNDARY VACUUM G-SA UNIT
 PROPOSED EXPANSION AREA
 PROPOSED INJ. WELL (TEXACO)
 PROPOSED INJ. WELL (PHILLIPS)
 HALF MILE RADIUS OF EXPANSION AREA

WELL NAME AND NUMBER	SURFACE CASING			INTERMEDIATE CASING			PRODUCTION CASING			TOTAL DEPTH	INTERVAL	LOCATION			
	Casing Size	Depth Set	Sx Cnt	Top Cement	Casing Size	Depth Set	Sx Cnt	Top Cement	Hole Size				Csg Size	Depth Set	Sx Cnt
CONTINENTAL OIL CO.															
State H-35 #3	10-3/4"	289'	250	Circ	7-5/8"	1561'	425	Circ	6-3/4"	5-1/2"	4116'	425	1775'	4700'	4146-4666 (O.H.)
State H-35 #4	10-3/4"	300	250	Circ	7-5/8"	1554	425	Circ	6-3/4"	5-1/2"	4153	425	1777	4715	4153-4715 (O.H.)
State H-35 #5	10-3/4"	286	225	Circ	7-5/8"	1561	425	Circ	6-3/4"	5-1/2"	4119	425	1775	4695	4149-4695 (O.H.)
State H-35 #6	10-3/4"	288	225	Circ	7-5/8"	1555	425	Circ	6-3/4"	5-1/2"	4164	425	1772	4753	4164-4753 (O.H.)
State H-35 #7	13-3/8"	375	375	Circ	9-5/8"	4950	300	4189	8-3/4"	7	12413	1750	5700	12413	4164-4753 (O.H.)
State H-35 #10	10-3/4"	1596	730	Circ	--	--	--	--	9-7/8"	4-1/2"	6750	1725	2700	6750	4146-4753 (O.H.)
State H-35 #11	10-3/4"	1520	795	Circ	--	--	--	--	Plugged and Abandoned	2-7/8"	6750	--	3300	--	4612-4710 (O.H.)
State H-35 #13	8-5/8"	1525	700	Circ	--	--	--	--	Plugged and Abandoned	--	6750	--	6035	--	4612-4710 (O.H.)
PHILIP															
Table #1	9-5/8"	1547	890	Circ	--	--	--	--	8-3/4"	7	4172	400	650	4716	4172-4716 (O.H.)
Table #2	9-5/8"	1573	900	Circ	--	--	--	--	8-3/4"	7	4166	400	650	4655	4166-4655 (O.H.)
Table #3	8-5/8"	367	200	Circ	--	--	--	--	7-7/8"	4-1/2"	4754	575	2625	4760	4166-4655 (O.H.)
M. E. Hole #2	9-5/8"	1536	875	Circ	7	4170	400	650	--	4-3/4" Liner	4776	160	Circ	4780	456-4664 (O.H.)
M. E. Hole #4	9-5/8"	1595	900	Circ	--	4145	400	650	--	4-3/4"	4744	160	Circ	4780	4632-4651 (O.H.)
M. E. Hole #5	9-5/8"	1544	900	Circ	--	--	--	--	8-3/4"	7	4093	400	1171	4699	4699-4699 (O.H.)
M. E. Hole #6	9-5/8"	1523	635	Circ	--	--	--	--	8-3/4"	7	4097	400	1162	4721	4697-4721 (O.H.)
M. E. Hole #9	13-3/8"	323	350	Circ	9-5/8"	3400	400	2500	8-3/4"	7	10497	1050	2700	4702	4610-4651 (O.H.)
M. E. Hole #10	8-5/8"	1600	700	Circ	--	--	--	--	7-7/8"	4-1/2"	6200	800	3150	4702	4610-4651 (O.H.)
M. E. Hole #11	8-5/8"	1594	750	Circ	--	--	--	--	7-7/8"	4-1/2"	6225	800	3175	6225	5014-5235 (O.H.)
TEXACO															
New Mexico "R" State (NCT-2) #5	10-3/4"	1550	800	Circ	--	--	--	--	6-3/8"	2-7/8"	6248	1000	2456	6700	5030-5046 (O.H.)
New Mexico "S" State #1	7-5/8"	1623	300	Circ	--	--	--	--	6-3/4"	5-1/2"	4192	200	1556	4675	4192-4675 (O.H.)
New Mexico "S" State #2	7-5/8"	1597	400	Circ	--	--	--	--	6-3/4"	5-1/2"	4225	200	1587	4675	4225-4675 (O.H.)
New Mexico "Z" State #5	13-3/8"	322	350	Circ	--	--	--	--	Plugged and Abandoned	4-1/2"	4800	650	2470	4900	4923-4713 (O.H.)
Vacuum Grayburg-S.A. Unit #29	8-5/8"	330	235	Circ	--	--	--	--	7-7/8"	5-1/2"	4079	200	850	4710	4079-4710 (O.H.)
Vacuum Grayburg-S.A. Unit #36	8-5/8"	1690	300	Circ	--	--	--	--	6-3/4"	5-1/2"	4100	200	2600	4710	4100-4710 (O.H.)
Vacuum Grayburg-S.A. Unit #37	8-5/8"	1648	300	Circ	--	--	--	--	6-3/4"	5-1/2"	4107	200	920	4710	4079-4710 (O.H.)
Vacuum Grayburg-S.A. Unit #38	8-5/8"	1593	300	Circ	--	--	--	--	7-7/8"	5-1/2"	4800	500	1200	4800	4443-4752 (O.H.)
Vacuum Grayburg-S.A. Unit #44	8-5/8"	356	300	Circ	--	--	--	--	7-7/8"	5-1/2"	4800	600	1300	4800	4443-4752 (O.H.)
Vacuum Grayburg-S.A. Unit #45	8-2/8"	356	300	Circ	--	--	--	--	7-7/8"	5-1/2"	4800	500	1300	4800	4443-4752 (O.H.)
Vacuum Grayburg-S.A. Unit #46	8-5/8"	356	300	Circ	--	--	--	--	8-7/8"	5-1/2"	4800	500	1300	4800	4443-4752 (O.H.)
Vacuum Grayburg-S.A. Unit #51	7-5/8"	1605	250	Circ	--	--	--	--	6-3/4"	5-1/2"	4821	200	2278	4700	4291-4700 (O.H.)
Vacuum Grayburg-S.A. Unit #52	7-5/8"	1628	350	Circ	--	--	--	--	6-3/4"	5-1/2"	4189	200	2278	4700	4291-4696 (O.H.)
Vacuum Grayburg-S.A. Unit #53	8-5/8"	1596	300	Circ	--	--	--	--	6-3/4"	5-1/2"	4171	250	220	4710	4171-4710 (O.H.)
Vacuum Grayburg-S.A. Unit #59	13-3/8"	365	400	Circ	--	--	--	--	7-7/8"	4-1/2"	4800	2400	Circ	4800	4647-4762 (O.H.)
Vacuum Grayburg-S.A. Unit #60	13-3/8"	355	400	Circ	9-5/8"	1650	900	Circ	7-7/8"	4-1/2"	4800	1700	Circ	4800	4647-4762 (O.H.)

WELL NAME AND NUMBER	SURFACE DEPTH				INTERMEDIATE CASING				PRODUCTION CASING				TOTAL DEPTH		INTERVAL	LOCATION: C I T R
	Casing Size	Depth Set	Sx Cnt	Top Cement	Casing Size	Depth Set	Sx Cnt	Top Cement	Hole Size	Csg Size	Depth Set	Sx Cnt	Top Cement			
TEXACO																
West Vacuum Unit #12	8-5/8"	1563'	650	Circ	--	--	--	--	7-7/8"	5-1/2"	4283'	275	2250'	4641'	4283-4641' (O.H.)	R 34 17 34
West Vacuum Unit #13	8-5/8	1561	650	Circ	--	--	--	--	7-7/8	5-1/2	4100	275	2050	4630	4100-4630 (O.H.)	A 34 17 34
West Vacuum Unit #20	8-5/8	1578	650	Circ	--	--	--	--	7-7/8	5-1/2	4289	275	2250	4710	4289-4710 (O.H.)	G 34 17 34
West Vacuum Unit #21	8-5/8	1580	600	Circ	--	--	--	--	7-7/8	5-1/2	4390	275	2400	4735	4390-4735 (O.H.)	R 34 17 34
West Vacuum Unit #28	9-5/8	497	175	Circ	--	--	--	--	8-3/4	7	4095	800	Circ	4690	4095-4690 (O.H.)	E 34 17 34
West Vacuum Unit #29	9-5/8	497	250	Circ	--	--	--	--	8-3/4	7	4099	700	Circ	4710	4099-4710 (O.H.)	I 34 17 34
West Vacuum Unit #36	7-5/8	1623	820	Circ	--	--	--	--	6-3/4	5-1/2	4230	200	1500	4625	4230-4625 (O.H.)	O 34 17 34
West Vacuum Unit #37	10-3/4	273	225	Circ	7-5/8	4617	425	Circ	6-3/4	5-1/2	4206	425	Circ	4675	4206-4675 (O.H.)	P 34 17 34
West Vacuum Unit #45	8-5/8	1593	300	Circ	--	--	--	--	6-3/4	5-1/2	4189	200	1258	4775	4189-4775 (O.H.)	E 3 18 34
West Vacuum Unit #46	7-5/8	1585	575	Circ	--	--	--	--	6-3/4	5-1/2	4234	200	1500	4773	4234-4773 (O.H.)	A 3 18 34
West Vacuum Unit #48	8-5/8	1654	1000	Circ	--	--	--	--	7-3/8	5-1/2	4340	500	3000	4740	4340-4740 (O.H.)	G 3 18 34
West Vacuum Unit #49	8-5/8	1620	1000	Circ	--	--	--	--	7-7/8	5-1/2	4348	500	2130	4740	4348-4740 (O.H.)	R 3 18 34
West Vacuum Unit #53	8-5/8	370	350	Circ	--	--	--	--	7-7/8	5-1/2	4800	1400	2000	4800	4800-4800 (O.H.)	E 3 18 34

Cmt. plug @ surface
(10 sxs.)

Cmt. plug across 10-3/4"
csg. shoe (50 sxs.)

10-3/4" csg. set @ 1520'
Cmt. circulated

Cmt. plug @ 2570' (Base of
salt - 25 sxs.)

Cmt. plug @ 2825' (Top of
Yates - 25 sxs.)

Cmt. plug @ 3300' (Queen
70 sxs.)

Cmt. plug @ 4130' (Top of
San Andres - 25 sxs.)

Cmt. plug @ 4760' (Base of
San Andres - 25 sxs.)

Cmt. plug @ 5915' (Glorieta -
50 sxs.)

TD 6400'

PLUGGED AND ABANDONED

STATE H-35 WELL NO. 11

OPERATOR: CONTINENTAL

LOCATION: C S-35, T-17-S, R-34-E

Cmt. plug @ surface
(10 sxs.)

Cmt. plug across 8-5/8"
csg. shoe. (50 sxs.)

Cmt. plug from 2530' -
2680' (50 sxs.)

Cmt. plug from 2820' -
2970' (50 sxs.)

Cmt. plug from 4360' -
4800' (150 sxs.)

Cmt. plug from 5883' -
6033' (50 sxs.)

8-5/8" csg. set @ 1525'
Cmt. circulated

TD 6033'

PLUGGED AND ABANDONED

STATE H-35 WELL NO. 13

OPERATOR: CONTINENTAL

LOCATION: B S-35, T-17-S, R-34-E

Cmt. plug @ surface
(15 sxs.)

Cmt. plug across 13-3/8" csg. shoe (25 sxs.)

13-3/8" csg. set @ 322'
Cmt circulated

9-5/8" csg. cut @ 1146'
Cmt. plug across csg. stub.
(45 sxs.)

Cmt. plug across 9-5/8" csg. shoe (45 sxs.)

9-5/8" csg. set @ 4957'
Cmt. w/900 sxs.

Cmt. plug from 6166' -
6266' (45 sxs.)

Cmt. plug from 8039' -
8139' (45 sxs.)

Cmt. plug from 9400' -
9500' (45 sxs.)

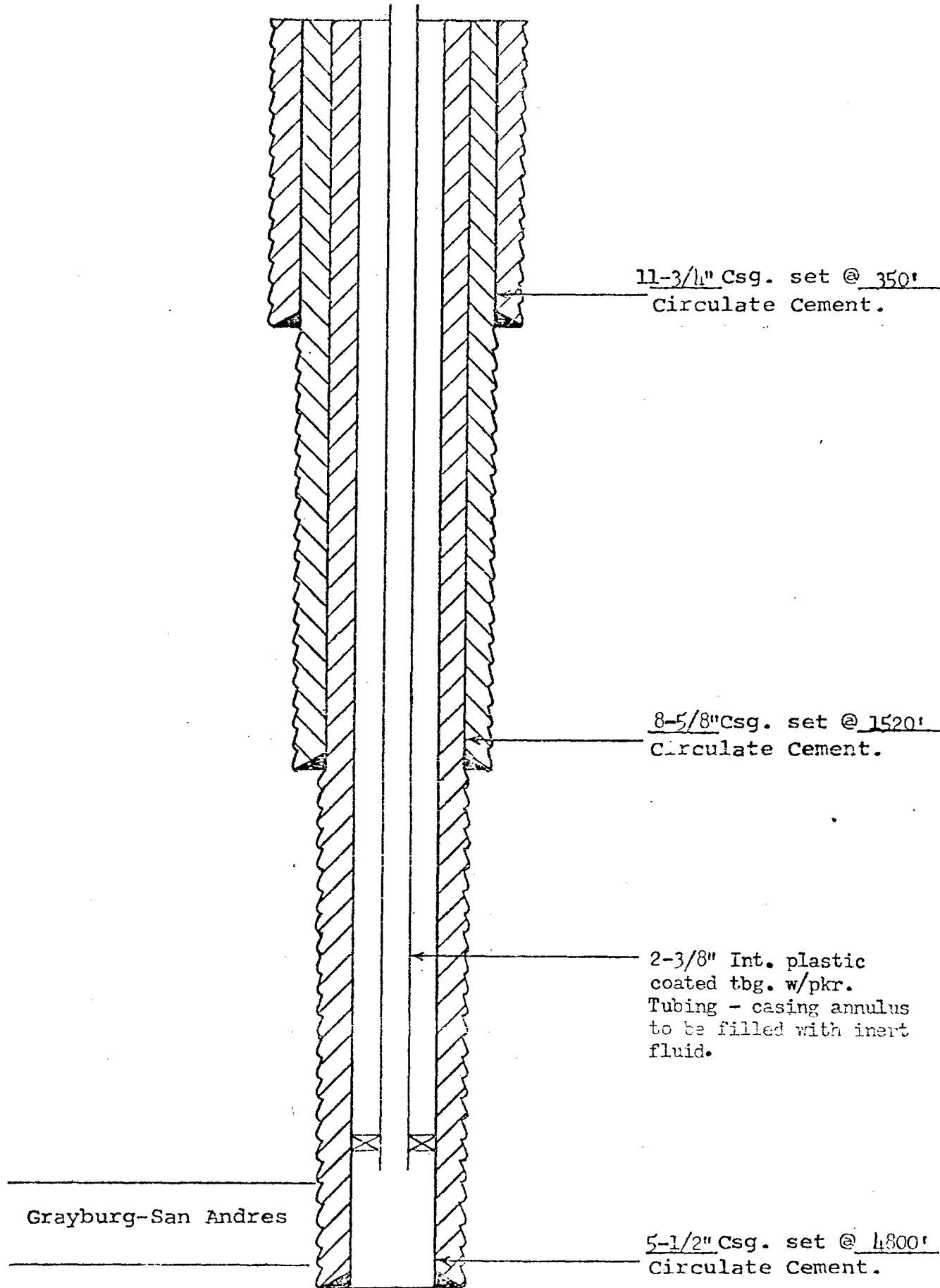
TD 9500'

PLUGGED AND ABANDONED

NEW MEXICO "Z" ST. NO. 5

OPERATOR: TEXACO Inc.

LOCATION: C S-2, T-18-S, R-34-E



PROPOSED INJECTION WELLS

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