



PETROLEUM PRODUCTS

January 4, 1979

TEXACO INC.
DRAWER 728
HOBBS, NEW MEXICO 88240

VACUUM GRAYBURG SAN ANDRES UNIT
WEST VACUUM UNIT COOPERATIVE
LEASE LINE INJECTION WELLS *Sea Co.*

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
Secretary-Director

Gentlemen:

TEXACO Inc. respectfully requests Administrative approval to drill and inject water into the following wells at unorthodox locations in the Vacuum Grayburg San Andres Unit in accordance with NMOCC Order R-4442:

<u>Well No.</u>	<u>Location</u>
59	40' FWL & 2500' FNL, Unit E, Sec. 2, T18S, R34E.
60	40' FWL & 1320' FNL, Unit D, Sec. 2, T18S, R34E.

The proposed wells are cooperative lease line injection wells between the Texaco-operated Vacuum Grayburg San Andres and West Vacuum Units. Completing the proposed injection wells will result in the recovery of reserves that are otherwise not recoverable through more efficient flooding of the pay.

*R-4442 Vacuum Grayburg - San Andres
Lease Line Injection Wells Project*

State of New Mexico

Dept. of Energy & Minerals

- 2 -

January 4, 1979

Anticipated injection volume is 1500 barrels per day per well. Injection water will be made up of fresh and produced water from the Vacuum Grayburg San Andres Unit.

A Plat of the Vacuum Grayburg San Andres Unit and West Vacuum Unit is enclosed showing the location of the proposed injection wells and all wells within a radius of two miles indicating the formation from which the wells produce or have produced.

A Log from Vacuum Grayburg San Andres Unit Well No. 29 (an east offset to proposed Well No. 59) and a Schematic Diagram of the proposed wells are enclosed.

A Tabular Summary of all wells (Exhibit I) and Wellbore Diagrams of all plugged and abandoned wells within a one-half mile radius of the proposed wells are enclosed.

All offset Operators within one-half mile of the proposed injection wells have been furnished a complete copy of this application mailed on the above date.

Yours very truly,

TEXACO INC.

PRODUCING DEPARTMENT-CENTRAL U. S.



J. V. Gannon

District Superintendent

WRH:JEB

Attachments

WEST VACUUM UNIT

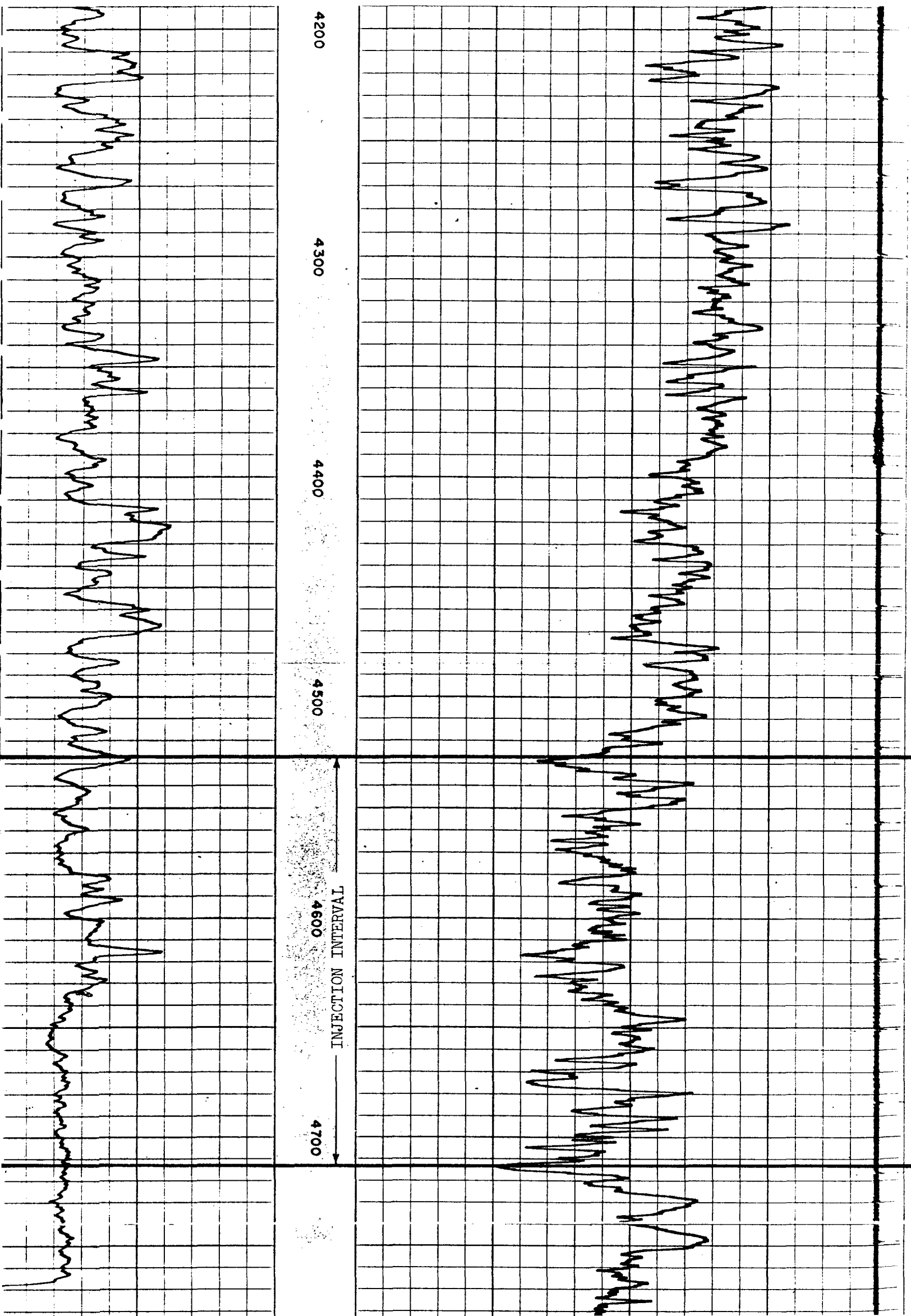
OFFSET OPERATORS

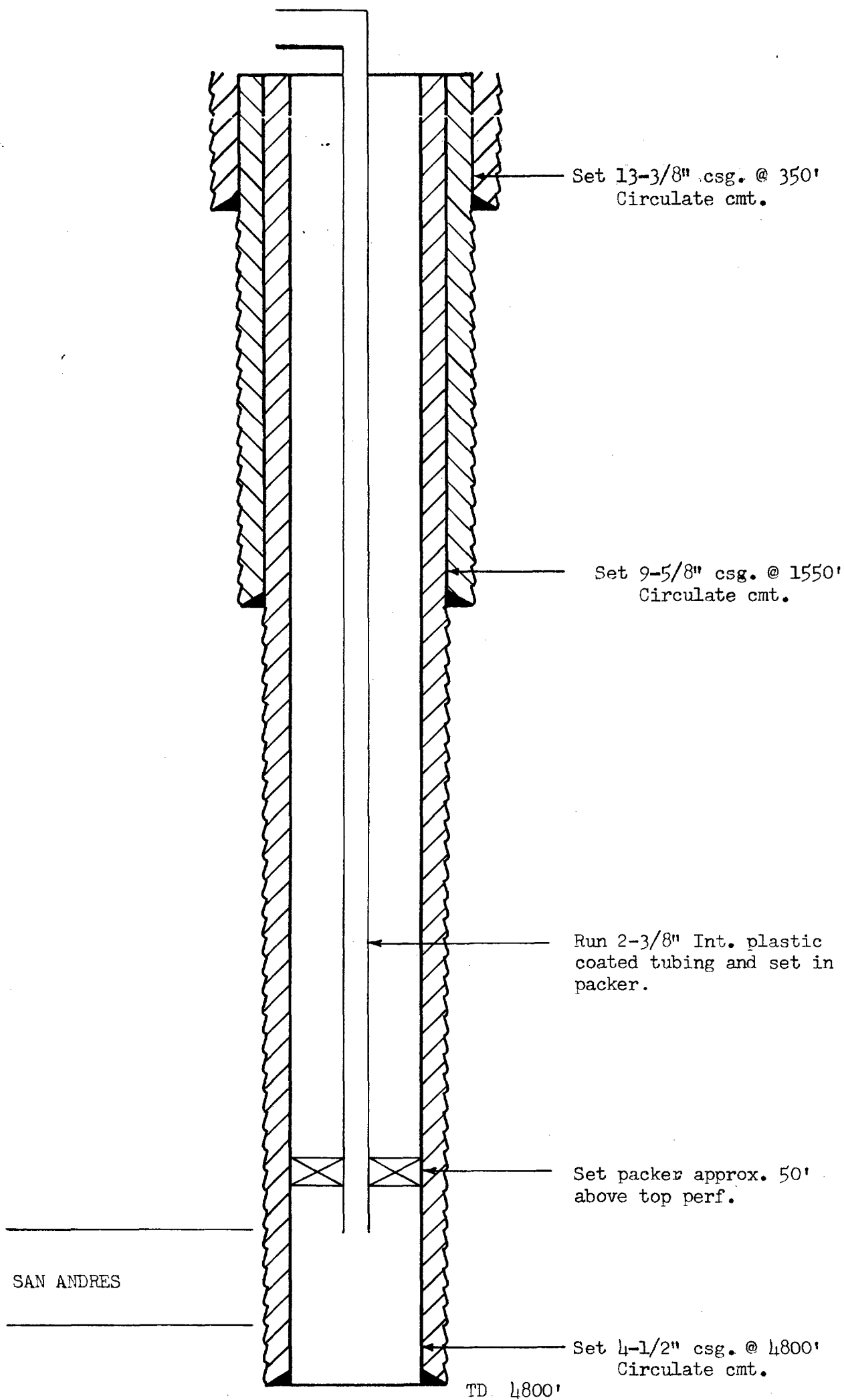
Phillips Petroleum Company
P. O. Box 1967
Houston, Texas, 77001
Attention: Mr. J. E. Chrisman

AMOCO Production Company
P. O. Box 3092
Houston, Texas, 77001

Gulf Oil Company - U. S.
Midland Production District
P. O. Box 1150
Midland, Texas, 79702

TEXACO Inc.
VACUUM GRAYBURG S.A. UNIT
WELL NO. 29
VACUUM FIELD
LEA COUNTY, NEW MEXICO





PROPOSED INJECTION WELL COMPLETION

TEXACO Inc.
VACUUM GRAYBURG S.A. UNIT
WELL 59 & 60
VACUUM FIELD
LEA COUNTY, NEW MEXICO

WRH/CRC 1-4-79

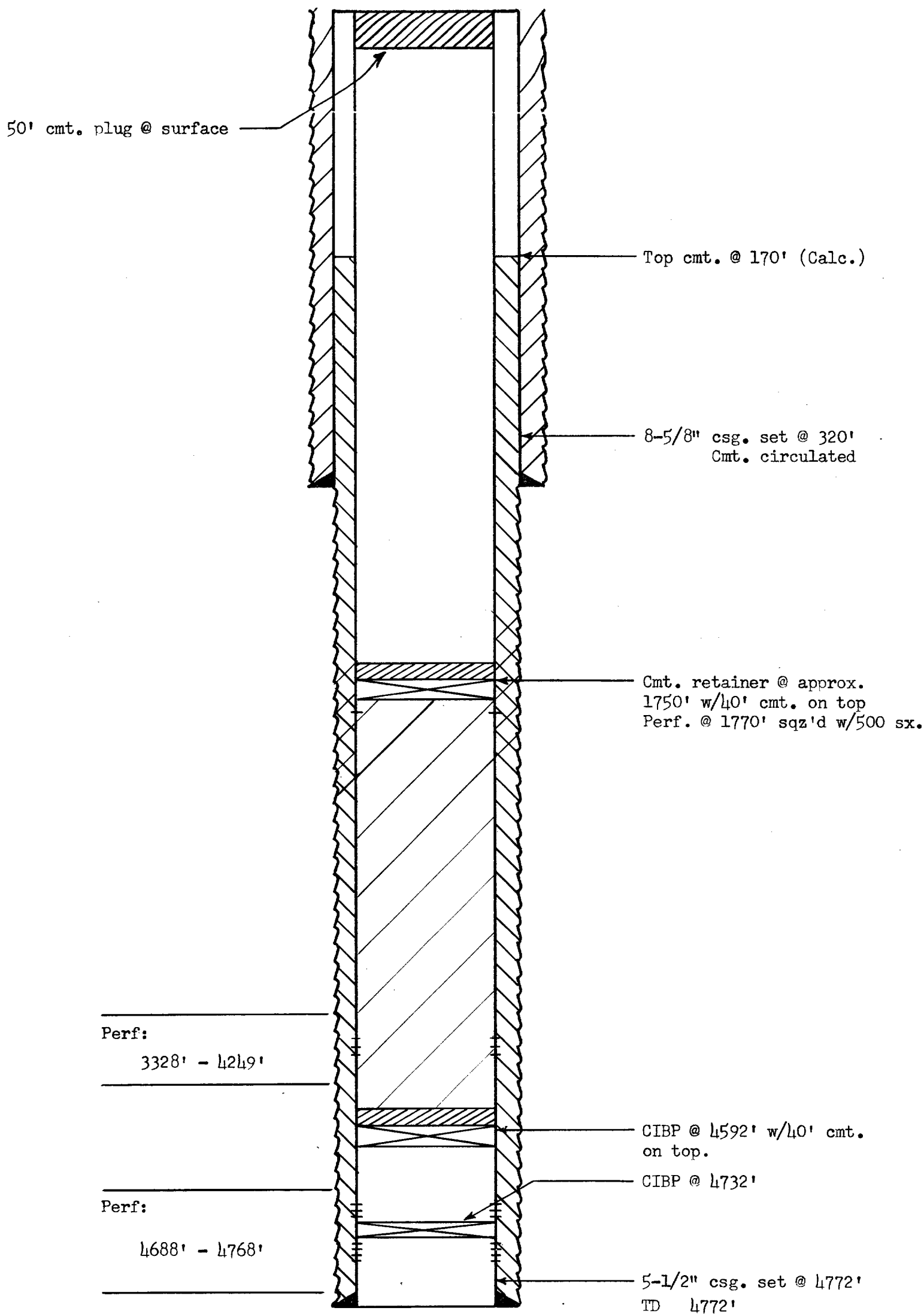
E X H I B I T I

OPERATOR		Location		Surface Casing			Intermediate Casing			Production Casing			Producing/Injection		Total	Remarks	
Lease & Well No.				Size	Depth	Sx. Cement	Size	Depth	Sx. Cement	Size	Depth	Sx. Cement	Top	Interval	Depth		
AMOCO PRODUCTION COMPANY																	
State "CT" #1		P- 3-18S-34S		13-3/8	293	350	Circ.	8-5/8	3381	375	2175 *	4-1/2	8990	1325	1255 *	8676-8898	8990
GULF OIL CORPORATION																	
Lea "V" State NCT-A #2		J- 3-18S-34E		8-5/8	320	175	Circ. *	--				5-1/2	4772	600	170 *	3328-4768	4772
PHILLIPS PETROLEUM COMPANY																	
M. E. Hale #4		N-35-17S-34E		9-5/8	1595	900	Circ. *	7	4146	400	610 *	4-1/2	4744	85	Circ. *	4622-4651	4780
TEXACO INC.																	
N.M. "S" State #2		M-35-17S-34E		7-5/8	1597	400	Circ.	--				5-1/2	4225	200	1040 *	4225-4675 O.H.	4675
N.M. "Z" State #5		C- 2-18S-34E		13-3/8	322	350	Circ.	9-5/8	4957	900	1150 *	5-1/2	4230	200	1045 *	P & A	9500
West Vacuum Unit #36		O-34-17S-34E		7-5/8	1623	820	Circ.	--				5-1/2	4206	425	Circ. *	4206-4675 O.H.	4675
#37		P-34-17S-34E		10-3/4	273	225	Circ. *	7-5/8	1617	425	Circ. *	5-1/2	4189	200	1005 *	4189-4775 O.H.	4775
#45		B- 3-18S-34E		8-5/8	1593	300	Circ.	--				5-1/2	4234	200	1050 *	4234-4773 O.H.	4773
#46		A- 3-18S-34E		7-7/8	1585	575	Circ.	--				5-1/2	4340	500	500 *	4340-4740 O.H.	4740
#48		G- 3-18S-34E		8-5/8	1654	1000	Circ. *	--				5-1/2	4348	500	510 *	4348-4800 O.H.	4800
#49		H- 3-18S-34E		8-5/8	1620	1000	Circ.	--				5-1/2	4351	400	2910 TS	4351-4820 O.H.	4820
#50		I- 3-18S-34E		8-5/8	1693	700	Circ.	--				4-1/2	4694	300	1805 *	4511-4679	4695
Vacuum Grayburg SA Unit #6		M- 2-18S-34E		7-5/8	1710	600	Circ.	--				5-1/2	4311	500	475 *	4311-4710	4710
#7		N- 2-18S-34E		8-5/8	1650	1000	Circ.	--				5-1/2	4800	500	965 *	4512-4748	4800
#14		K- 2-18S-34E		8-5/8	356	300	Circ.	--				4-1/2	4800	650	1005 *	4531-4751	4800
#15		J- 2-18S-34E		8-5/8	356	350	Circ.	--				5-1/2	4232	200	1050 *	4232-4700	4700
#21		L- 2-18S-34E		8-5/8	838	300	Circ.	--				5-1/2	4333	200	1150 *	4333-4710	4710
#22		K- 2-18S-34E		8-5/8	1688	300	Circ.	--				4-1/2	4800	650	2470 CBL	4528-4713	4800
#29		E- 2-18S-34E		8-5/8	350	235	Circ.	--				5-1/2	4800	500	965 *	4443-4740	4800
#30		K- 2-18S-34E		8-5/8	354	300	Circ.	--				5-1/2	4079	200	900 *	4079-4710	4710
#36		E- 2-18S-34E		8-5/8	1690	300	Circ.	--				5-1/2	4079	200	900 *	4079-4710	4710

*Calculated cement top @ 100% fillup.

E X H I B I T I

OPERATOR <u>Lease & Well No.</u>	<u>Location</u>	<u>Surface Casing</u>			<u>Intermediate Casing</u>			<u>Production Casing</u>			<u>Producing/Injection Interval</u>	<u>Total Depth</u>	<u>Remarks</u>		
		<u>Size</u>	<u>Depth</u>	<u>Sx. Cement</u> <u>Top</u>	<u>Size</u>	<u>Depth</u>	<u>Sx. Cement</u> <u>Top</u>	<u>Size</u>	<u>Depth</u>	<u>Sx. Cement</u> <u>Top</u>					
TEXACO INC. (CONTINUED)															
Vacuum Grayburg SA Unit	#37	F- 2-18S-34E	8-5/8	1648	300	Circ.	--		5-1/2	4100	200	915*	4100-4710 O.H.	4710	
	#44	F- 2-18S-34E	8-5/8	356	300	Circ.	--		5-1/2	4800	500	965*	4443-4732	4800	- 609'
	#45	C- 2-18S-34E	8-5/8	356	300	Circ.	--		4-1/2	4800	600	2464 CBL	4433-4756	4800	- 2109'
	#51	D- 2-18S-34E	7-5/8	1605	250	Circ.	--		5-1/2	4251	200	1065*	4251-4700	4700	
	#52	C- 2-18S-34E	7-5/8	1628	350	Circ.	--		5-1/2	4189	200	1005*	4189-4700	4700	



PLUG & ABANDONMENT SKETCH
 (Plugged 1-19-77)
 NEW MEXICO "V" ST. NCT-A NO. 2
 (Operator: Gulf)
 VACUUM FIELD
 LEA COUNTY, NEW MEXICO

WRH/CRC 1-3-79

15 sx. cmt. plug @ surface

Cmt. plug across 13-3/8"
csg. shoe from 305' - 335'

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

9-5/8" csg. stub @ 1146'
Cmt. plug across csg. stub
from 1009' - 1172'

100' cmt. plug across 9-5/8"
csg. shoe from 4907' - 5007'

9-5/8" csg. set @ 4957'

100' cmt. plug from
6166' - 6266'

100' cmt. plug from
8039' - 8139'

100' cmt plug from
9400' - 9500'

TD 9500'

PLUG & ABANDONMENT SKETCH

TEXACO Inc.
NEW MEXICO "Z" ST. NO. 5
VACUUM FIELD
LEA COUNTY, NEW MEXICO

