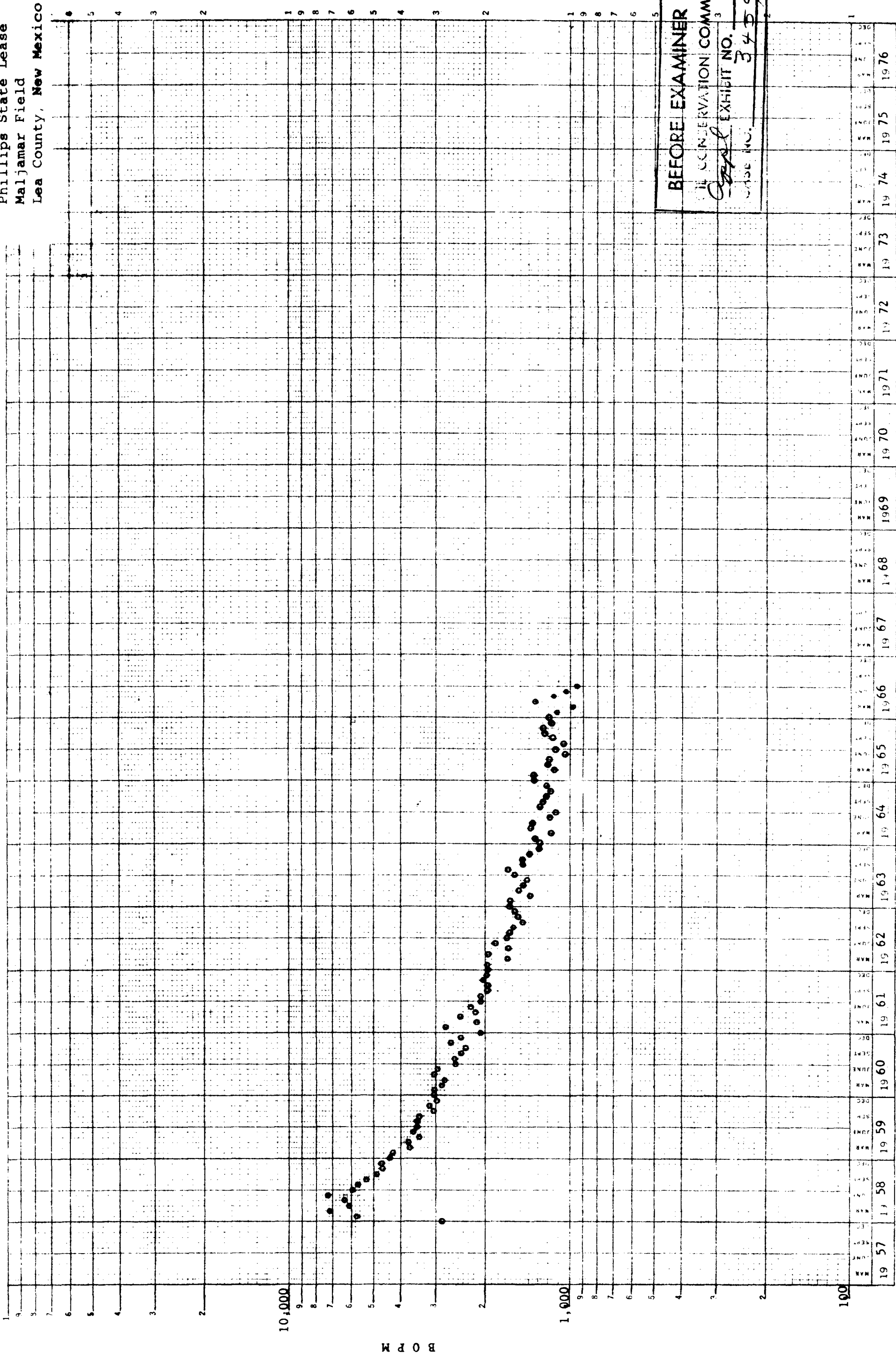


PENNZOIL COMPANY
Phillips State Lease
Maljamar Field
Lea County, New Mexico



20 YEARS BY MONTHS 358-215L
KEUFFEL & ESSER CO.
MADE IN U.S.A.

BEFORE EXAMINER UTZ

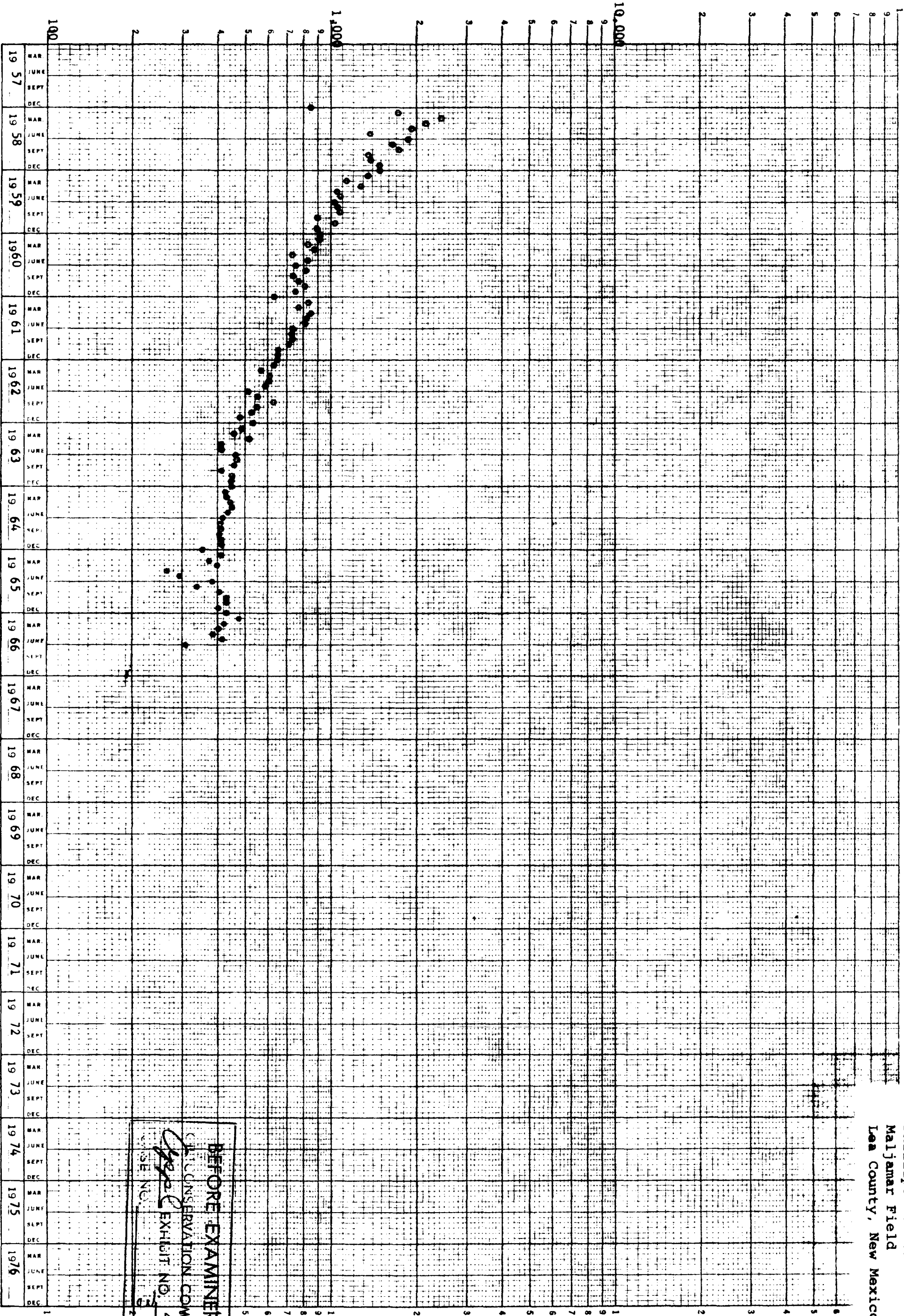
OIL CONSERVATION COMMISSION

EXHIBIT NO. 3459

DATE NOV. 3 1976

Years

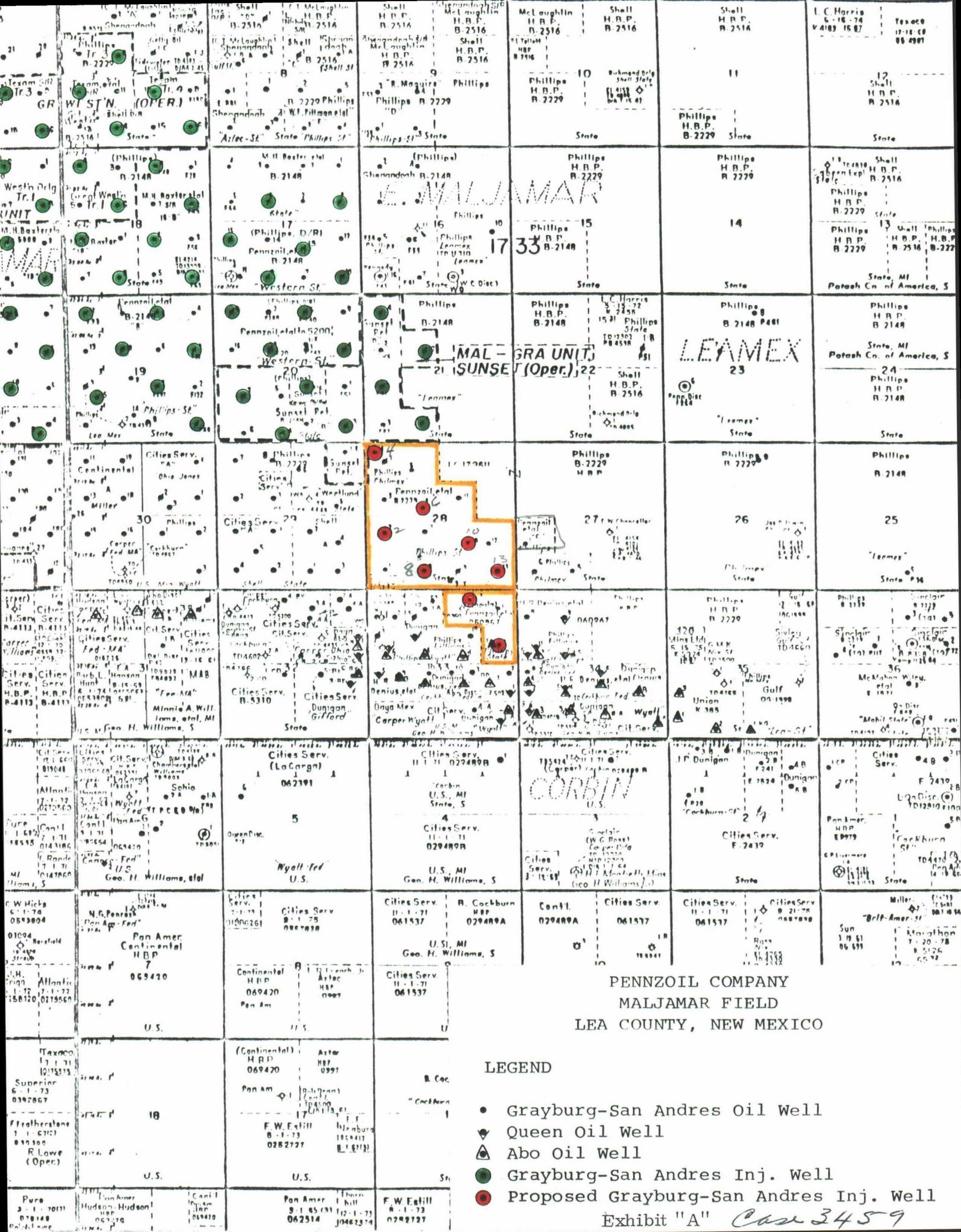
B O P M



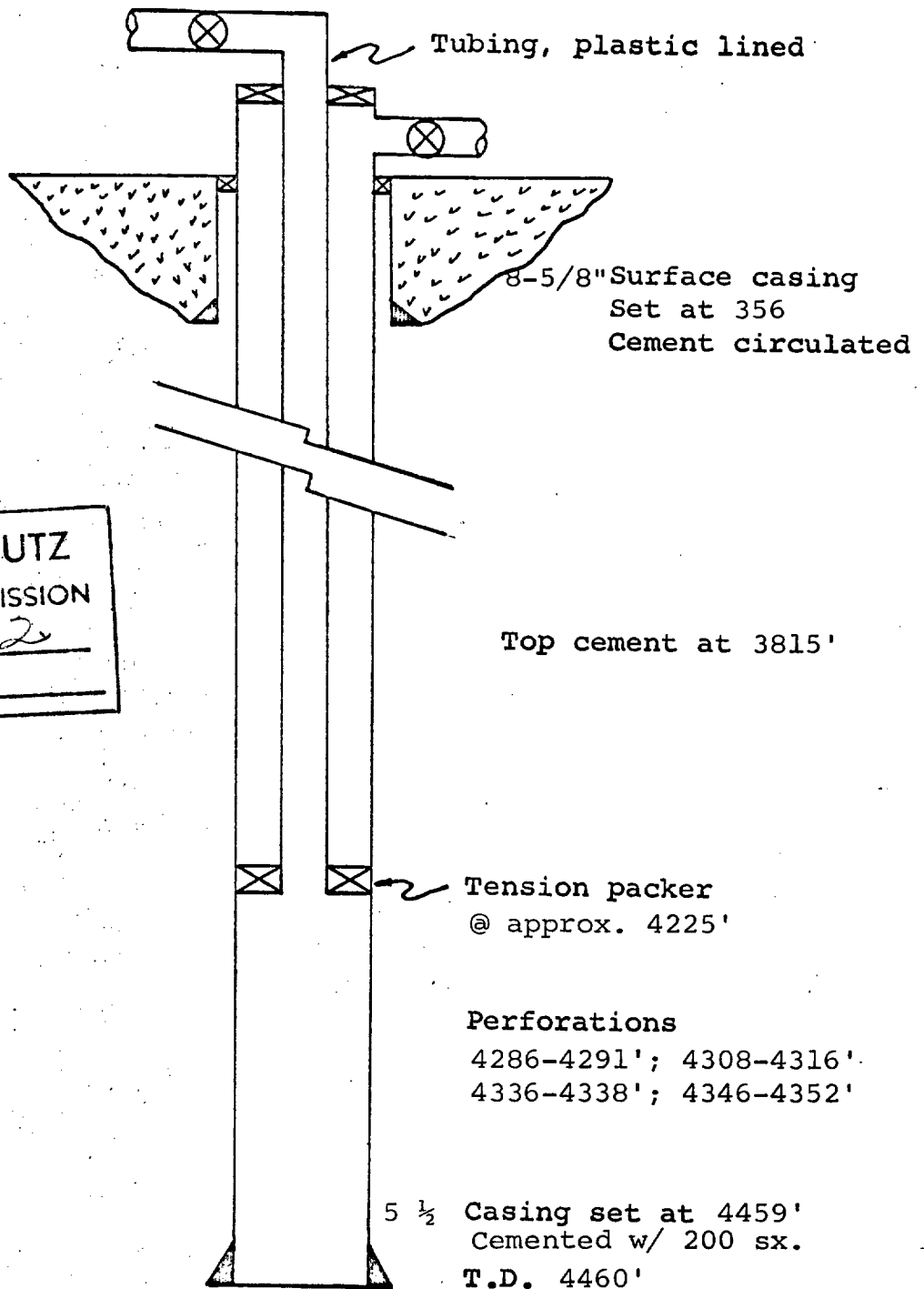
Y e a r s

BEFORE EXAMINER UTZ
CITIZENSHIP COMMISSION
EXHIBIT NO. 4-2
CASE NO. 3459

PENNZOIL COMPANY
Phillips Federal Lease
Maljamar Field
Lea County, New Mexico



Phillips State No. 2
1980' FSL; 660' FWL, Sec. 28, T-17-S, R-33-E



4200

4200-08

4257-63

4286-91

4300

4309-18

4329-38

4345-53

SON ANALYSIS

- 199

4400

5 1 / 2"

R. D. 4419'

T. D. 4432'

Pennzoil Co.

ZAPATA PET. CORP.

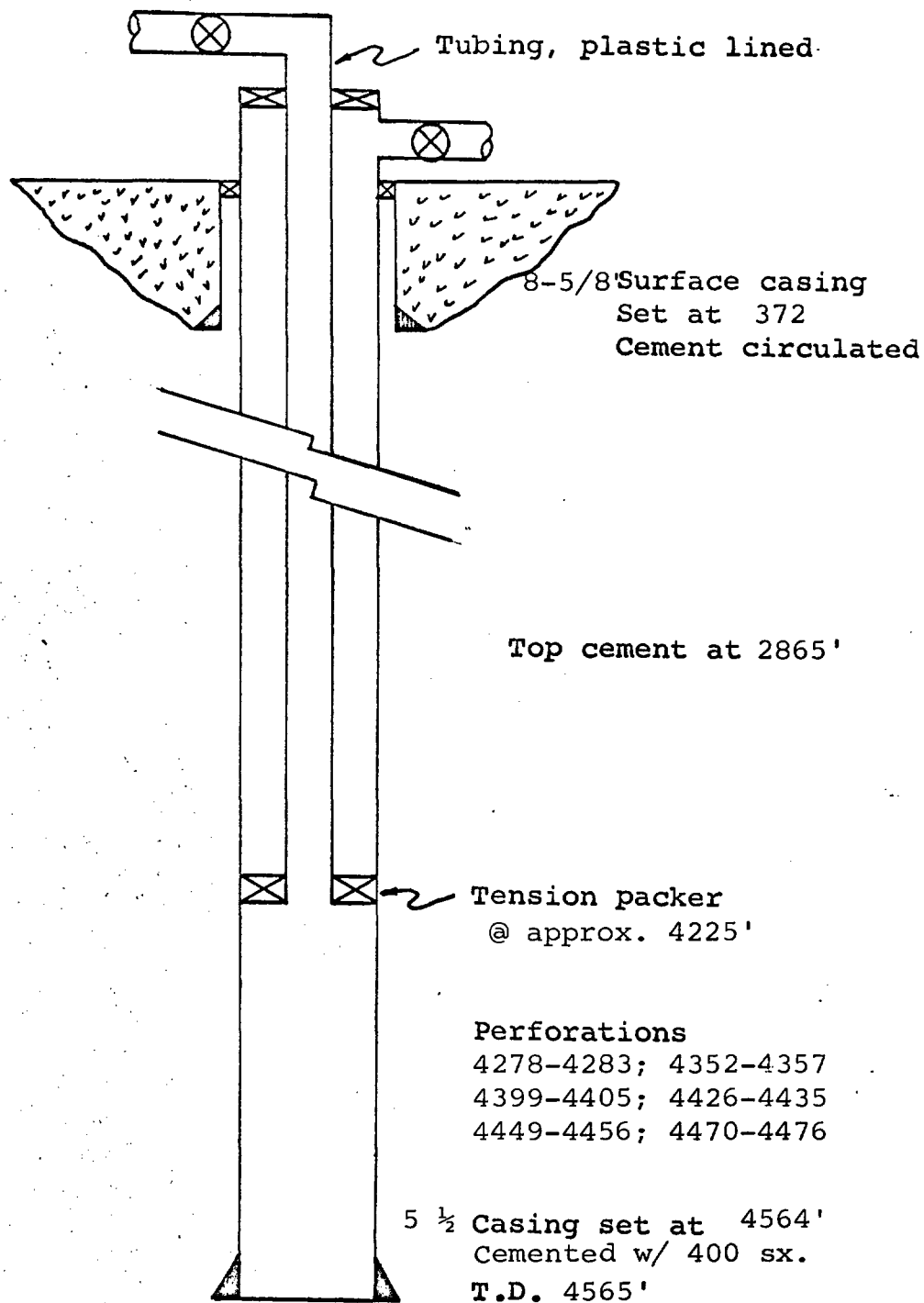
PHILLIPS STATE N°2

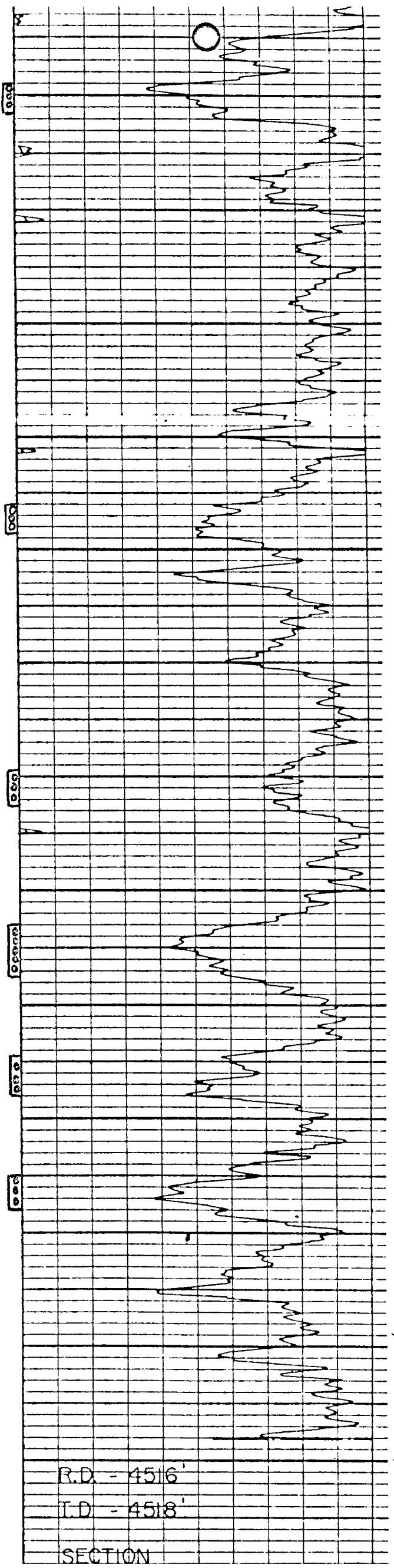
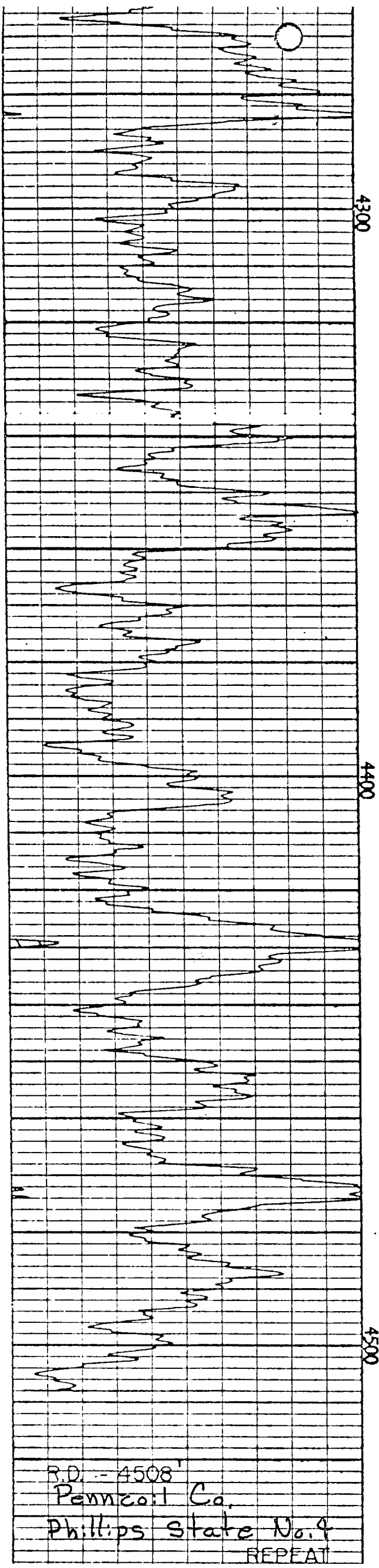
R. D. 4431'

T. D. 4432'

PENNZOIL COMPANY
WATER INJECTION WELL SCHEMATIC
MALJAMAR FIELD
LEA COUNTY, NEW MEXICO

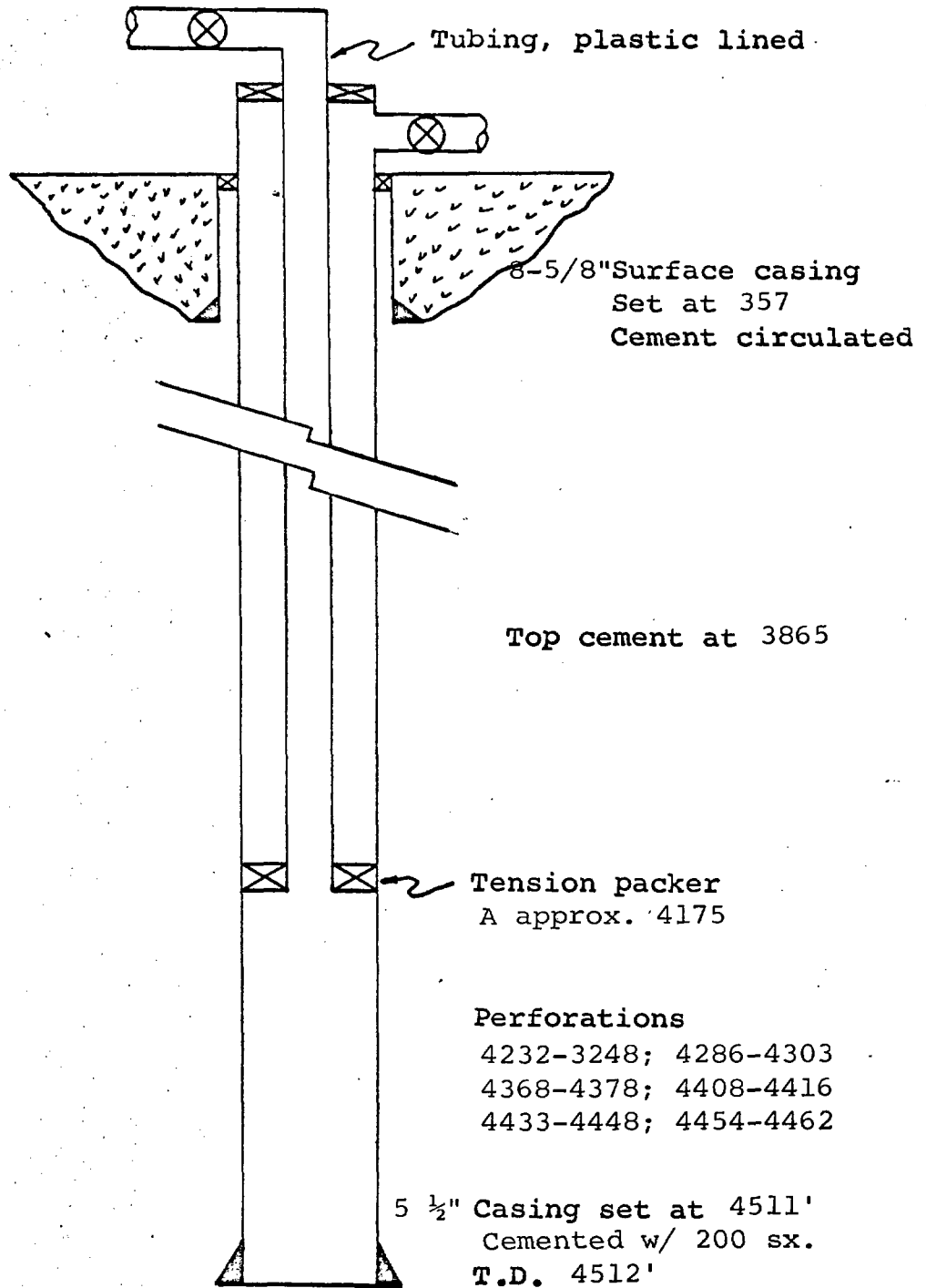
Phillips State No. 4
330' FN&WL, Sec. 28, T-17-S, R-33-E

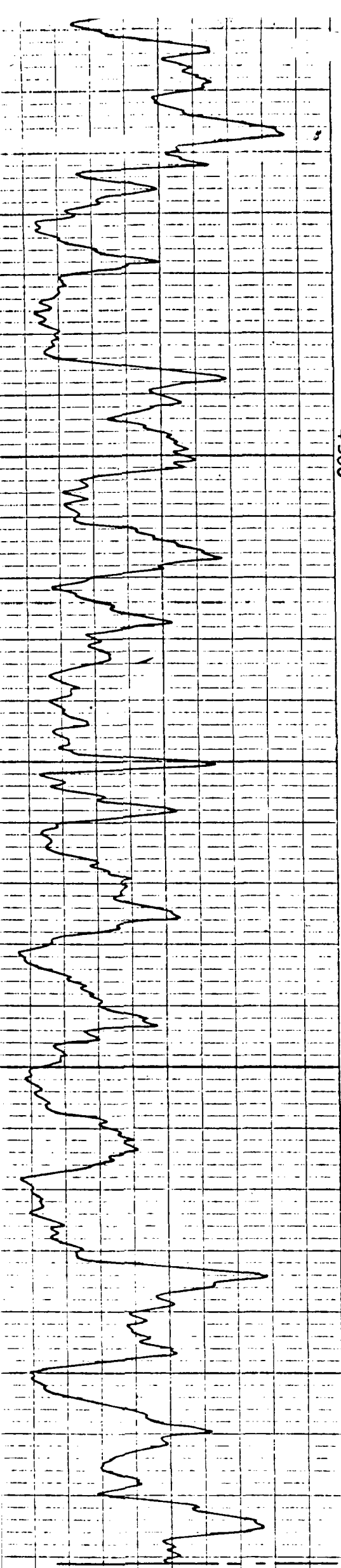




PENNZOIL COMPANY
WATER INJECTION WELL SCHEMATIC
MALJAMAR FIELD
LEA COUNTY, NEW MEXICO

Phillips State No. 6
1980' FWL, 2310' FNL, Sec. 28, T-17-S, R-33-E





4300

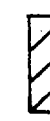
4400



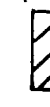
4232-48



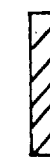
4286-4303



4368-78



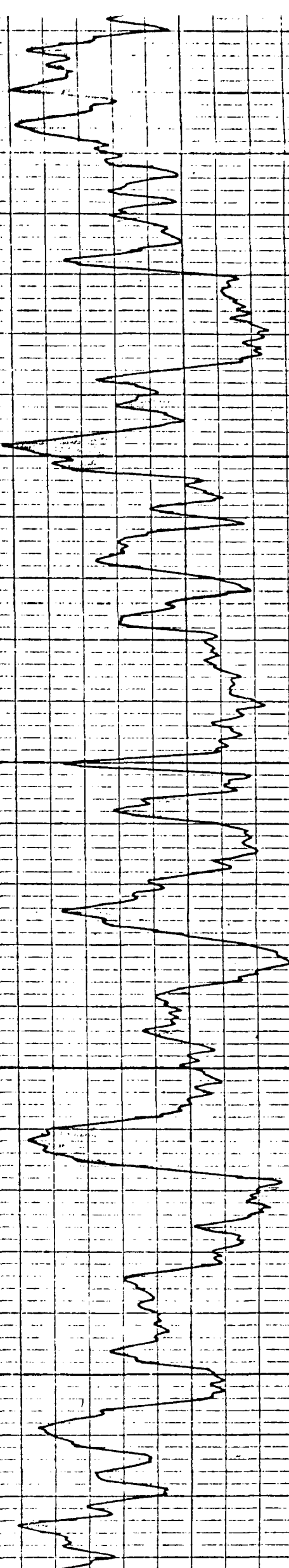
4408-16



4433-48



4454-62



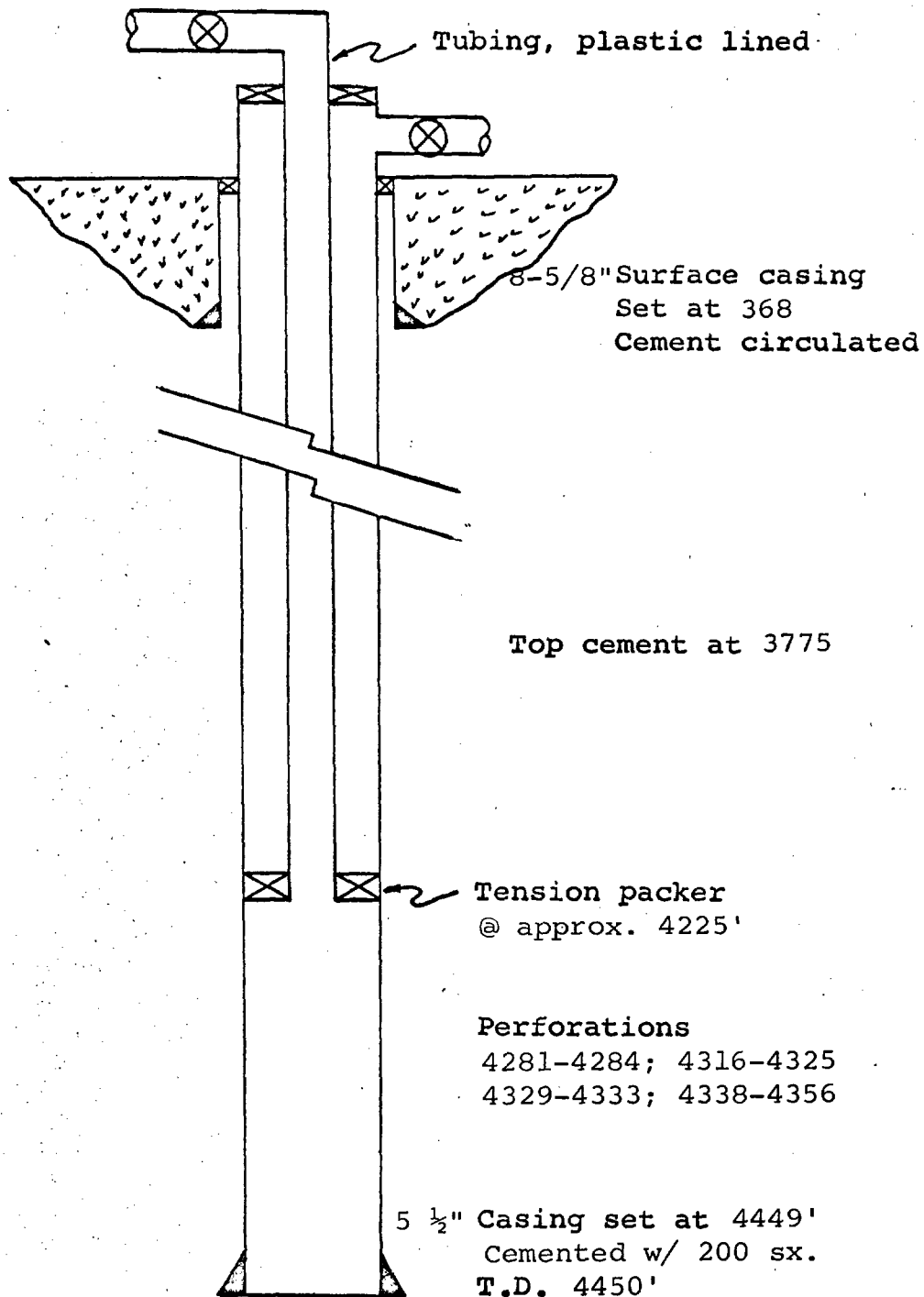
4496
418
369
ZAPATA PET CORP.

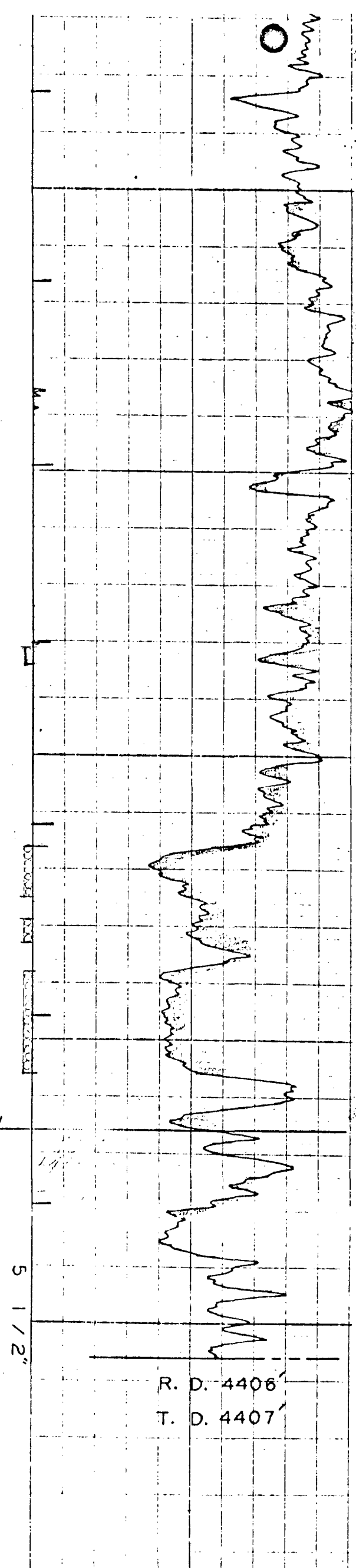
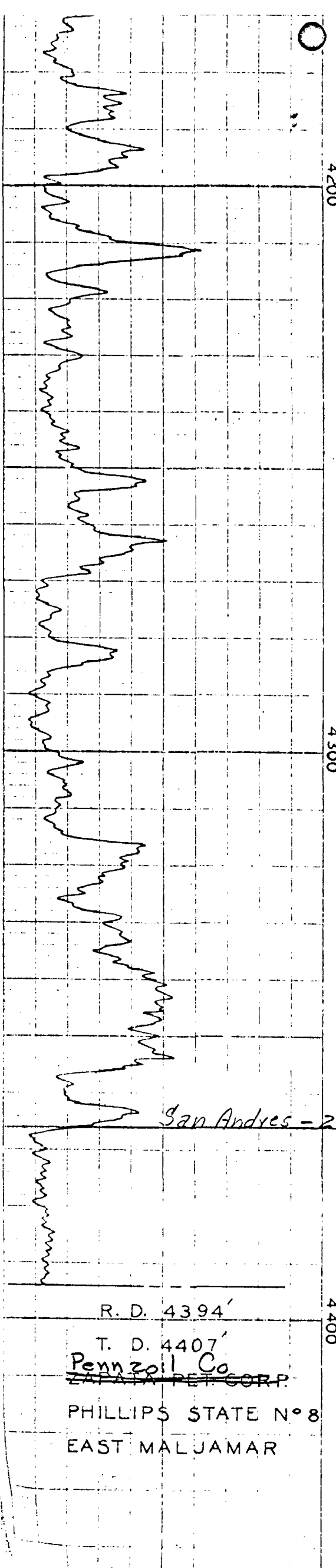
R. D. 4481 Pennzoil Co Phillips State No 6
T. D. 4494 TOP SAN ANDRES - 309

R. D. 4493

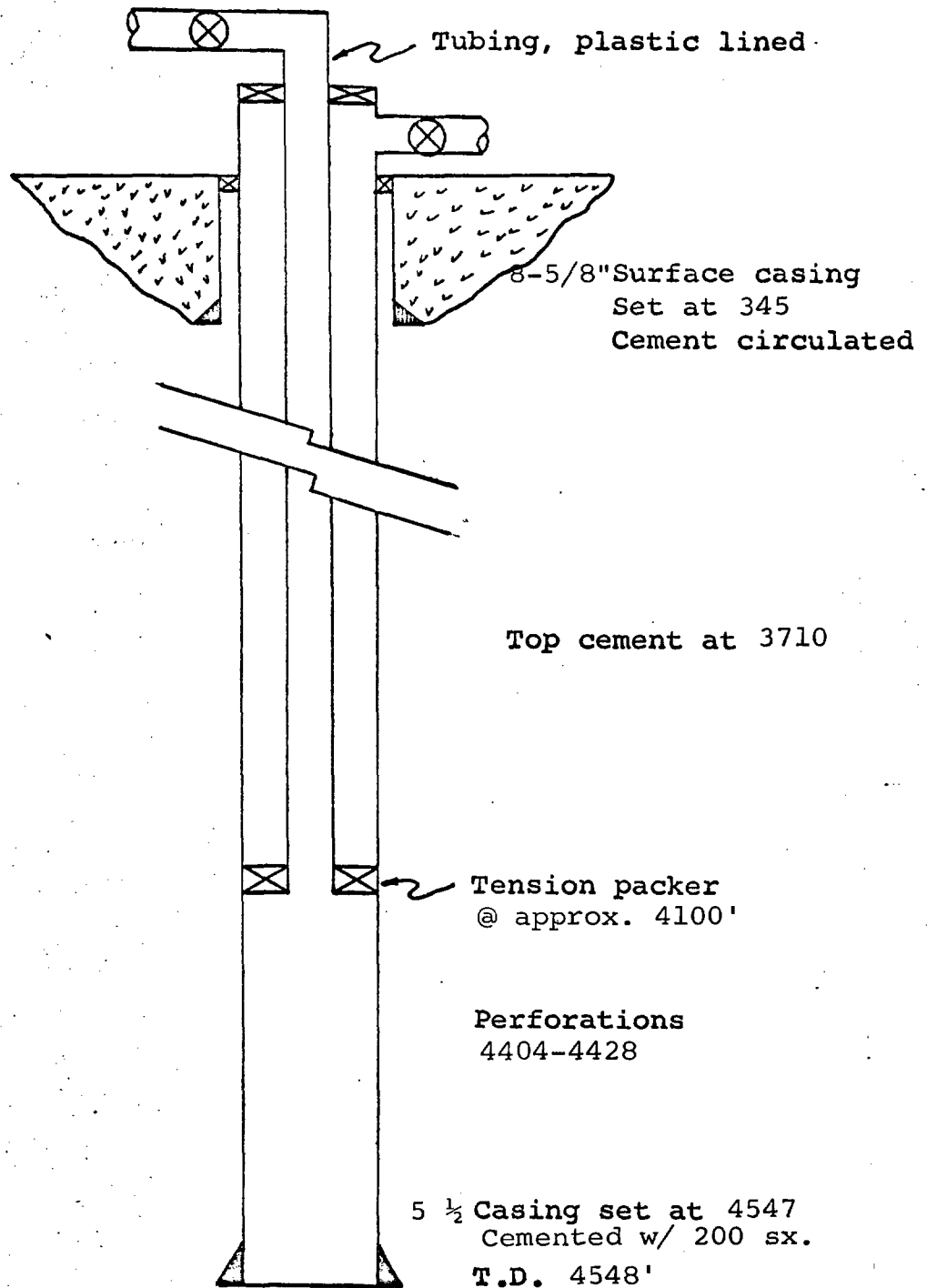
PENNZOIL COMPANY
WATER INJECTION WELL SCHEMATIC
MALJAMAR FIELD
LEA COUNTY, NEW MEXICO

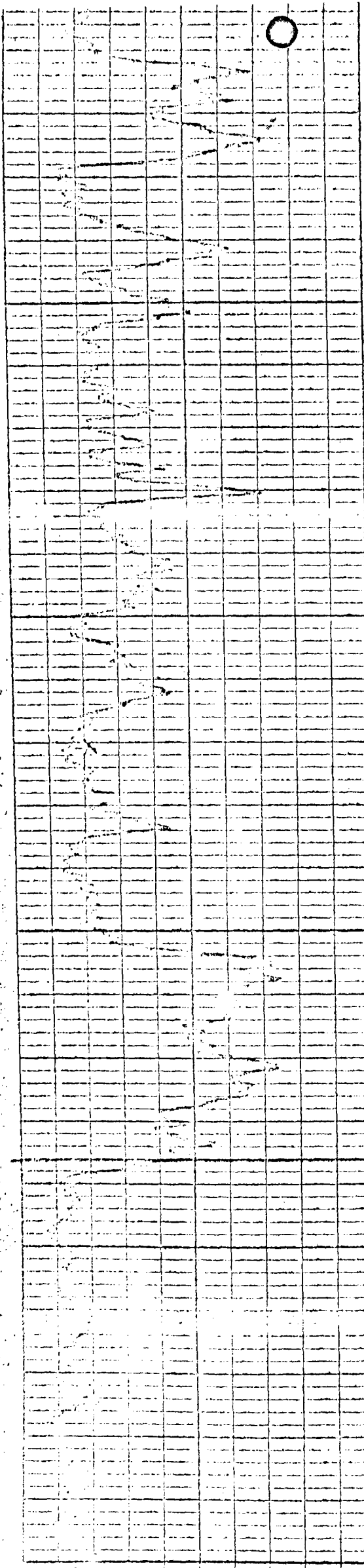
Phillips State No. 8
660' FSL, 1980' FWL, Sec. 28, T-17-S, R-33-E





PENNZOIL COMPANY
WATER INJECTION WELL SCHEMATIC
MALJAMAR FIELD
LEA COUNTY, NEW MEXICO
Phillips State No. 10
1650' FE&SL, Sec. 28, T-17-S, R-33-E





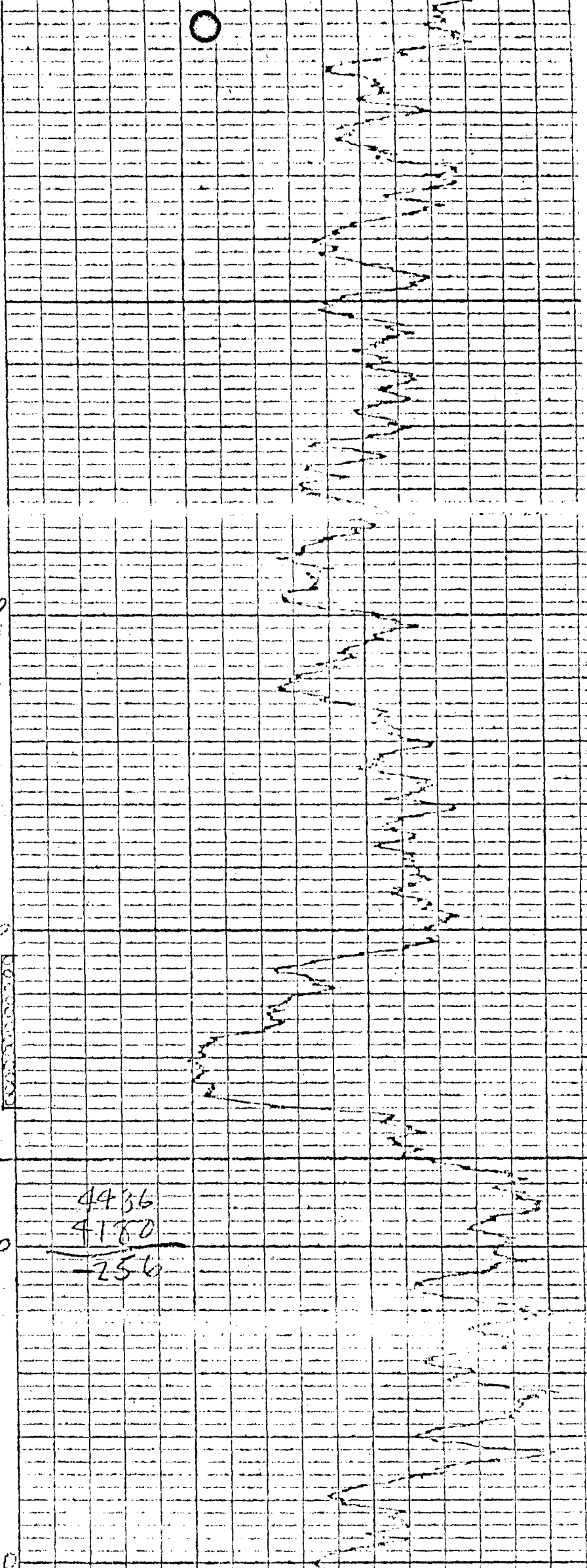
4300

4350

4400

4450

4500



4436
4180
-256

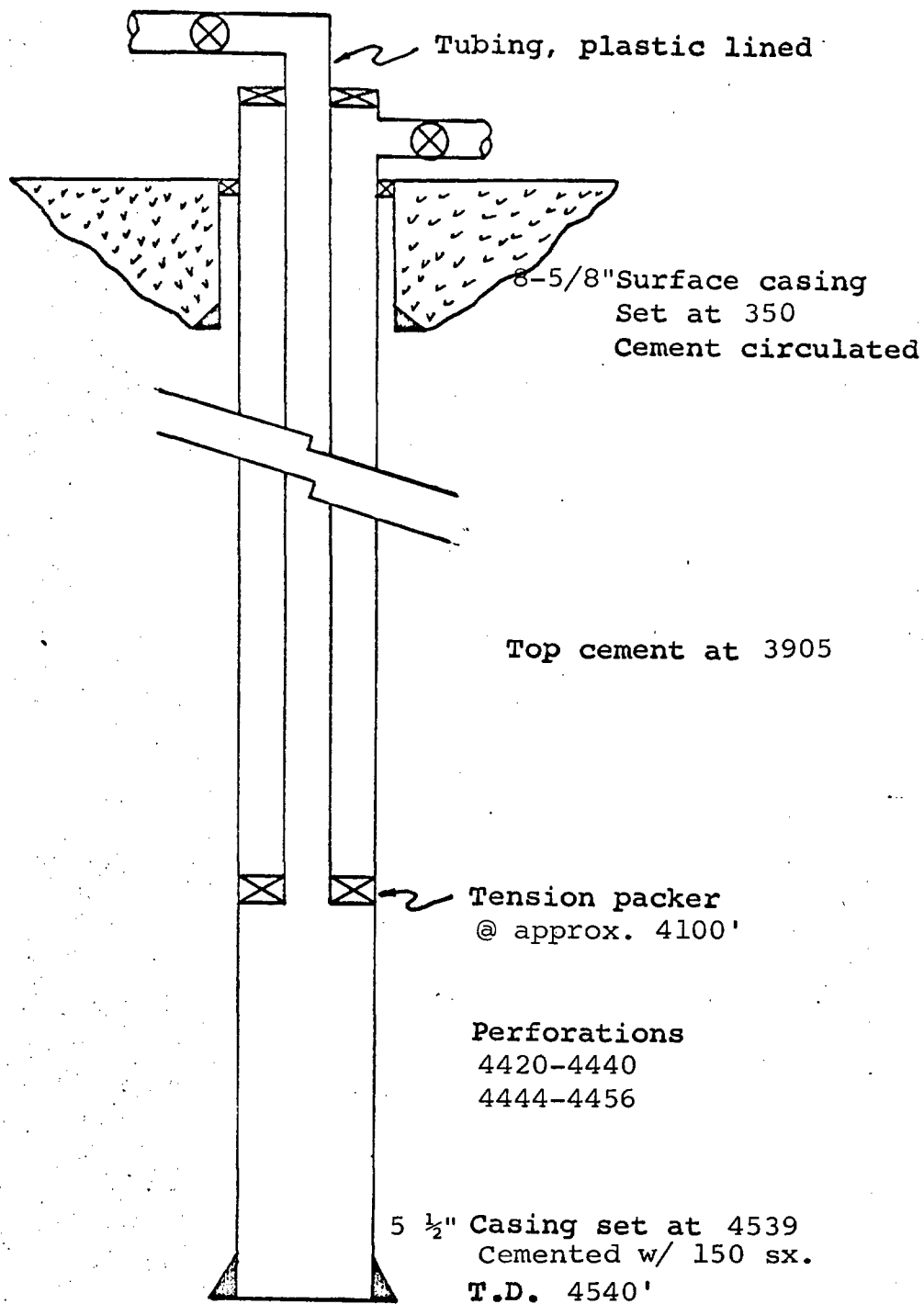
4450

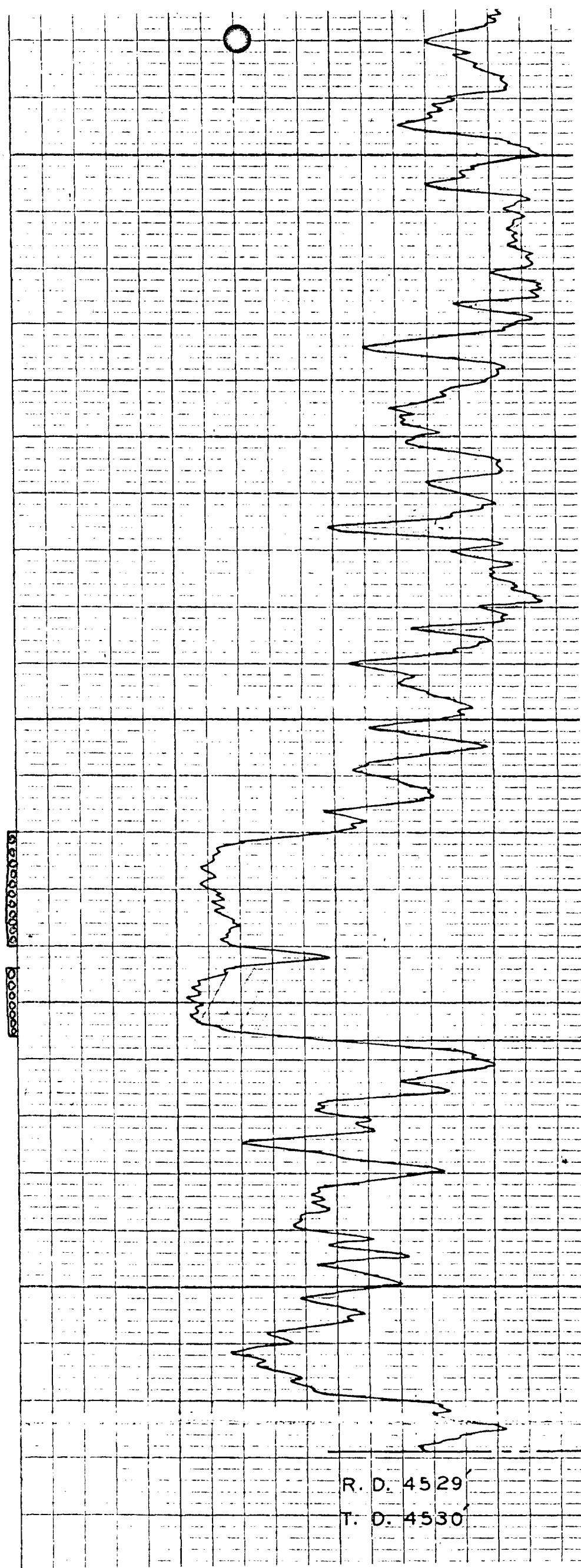
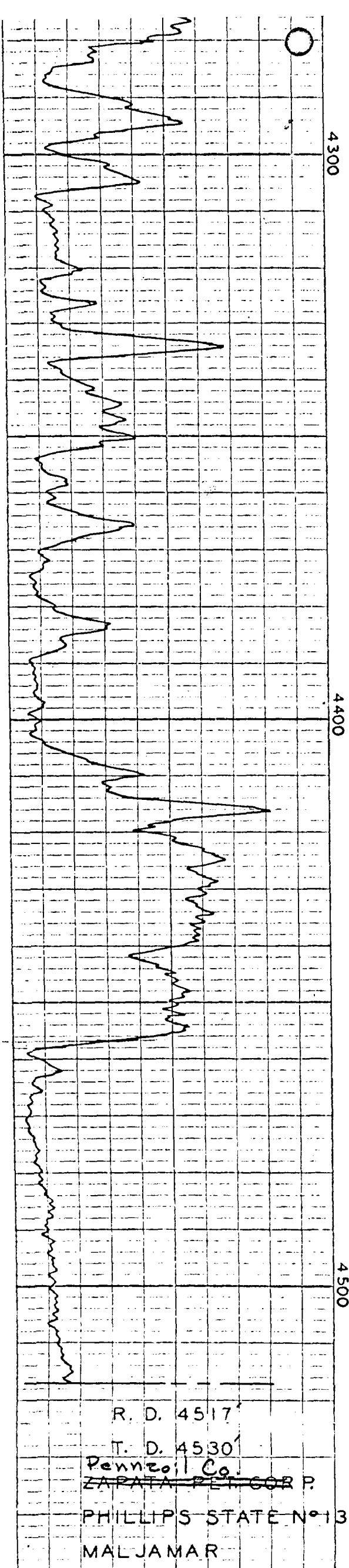
O.R.U.

Pennzoil Co. Phillips State No. 10

PENNZOIL COMPANY
WATER INJECTION WELL SCHEMATIC
MALJAMAR FIELD
LEA COUNTY, NEW MEXICO

Phillips State No. 13
660' FS&EL, Sec. 28, T-17-S, R-33-E



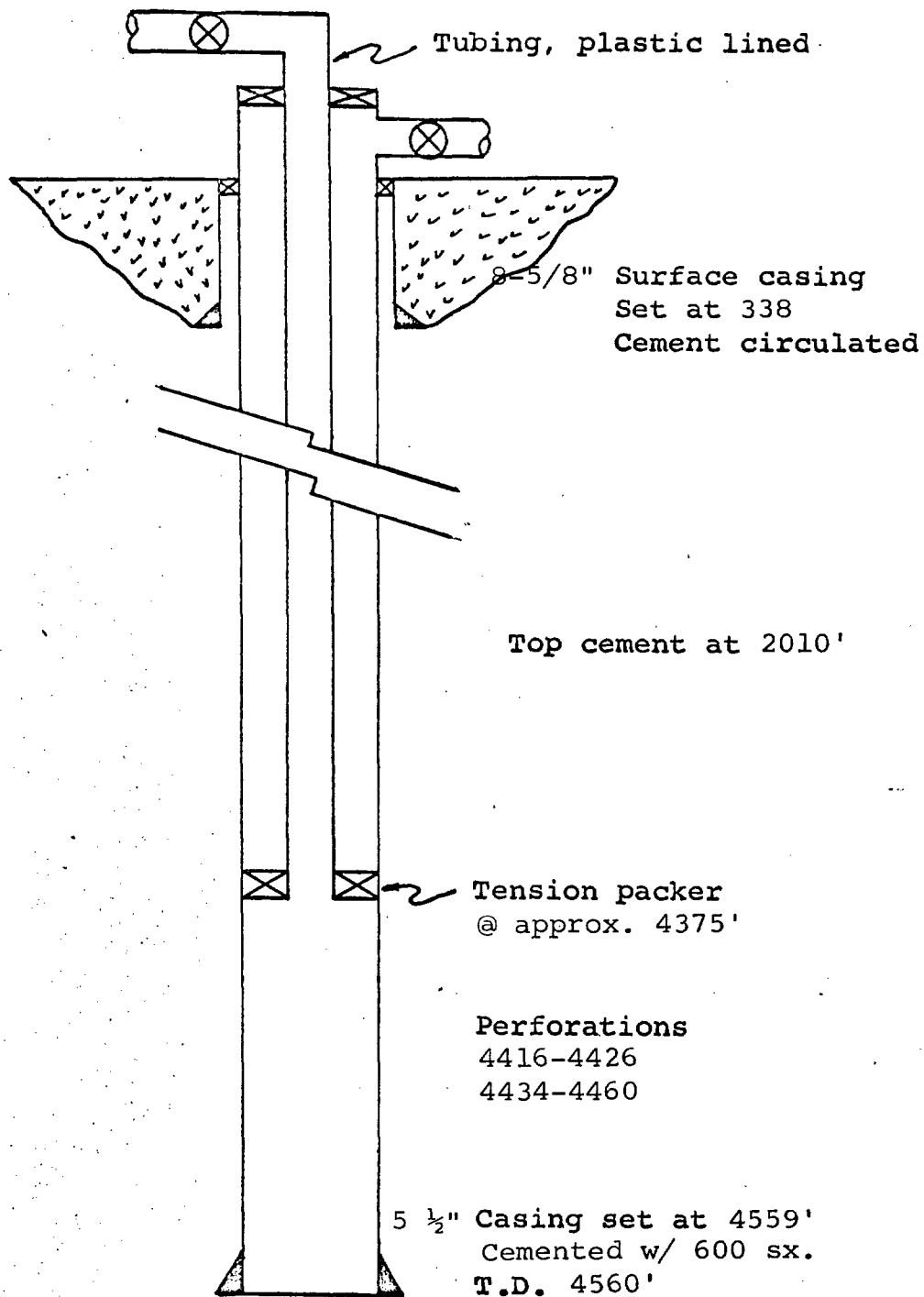


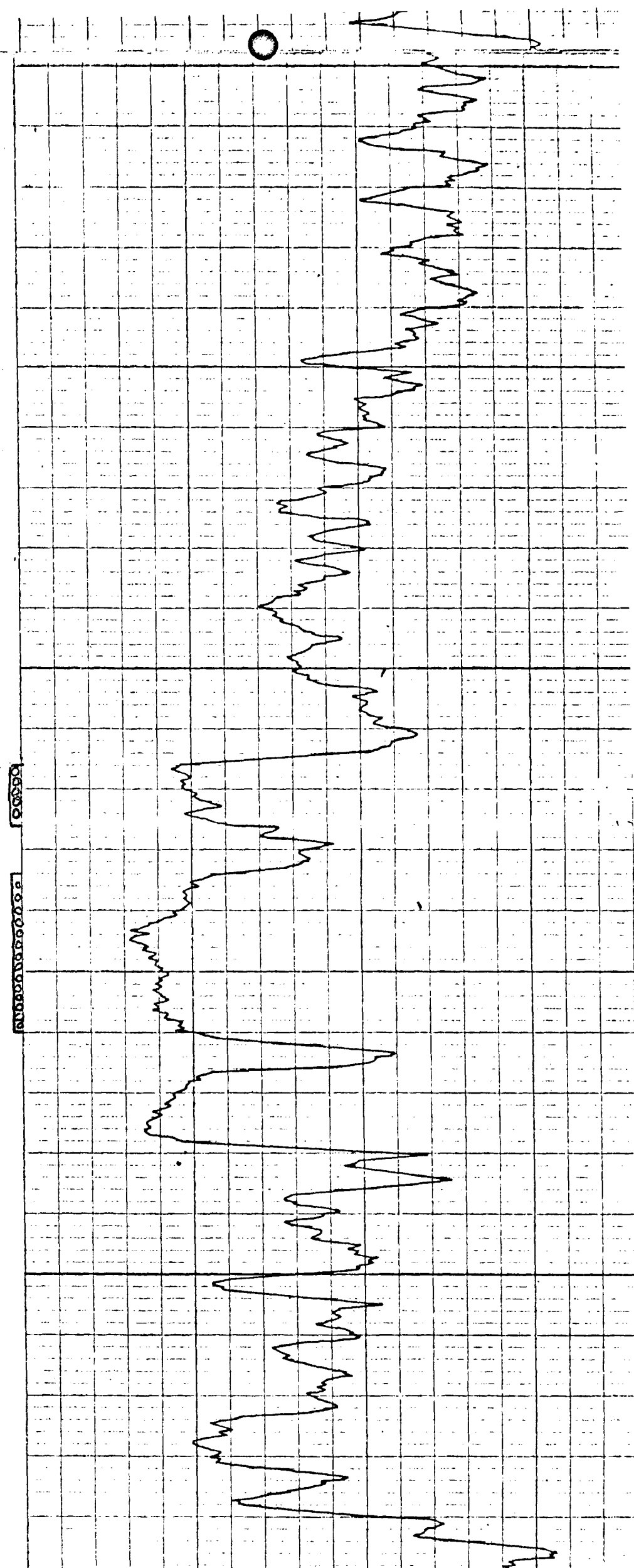
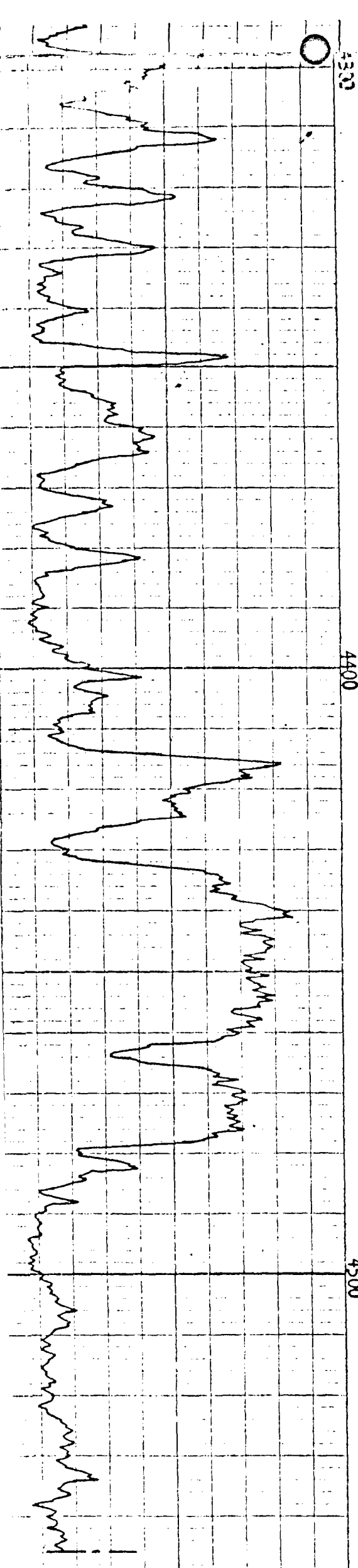
PENNZOIL COMPANY
WATER INJECTION WELL SCHEMATIC
MALJAMAR FIELD

LEA COUNTY, NEW MEXICO

Phillips Federal No. 2Y

330' FNL, 1650' FEL, Sec. 33, T-17-S, R-33-E





Pennzoil Co
R.D. 4546
T.D. 4550

5 1/2" Phillips Federal 2-Y
R.D. 4558

PENNZOIL COMPANY
Production Data
Phillips Federal Lease
Maljamar Field
Lea County, New Mexico

30B
854
10
75

1957
Month BOPM
Dec. 853 853

1958
Jan. 1717
Feb. 2486
March 2166
April 1908
May 1392
June 1893
July 1672
Aug. 1723
Sept. 1347
Oct. 1394
Nov. 1481
Dec. 1490 21,512

1959
Jan. 1358
Feb. 1136
March 1271
April 1056
May 1089
June 1026
July 1044
Aug. 1072
Sept. 899
Oct. 1027
Nov. 893
Dec. 907 34,300

1960
Jan. 908
Feb. 836
March 866
April 736
May 826
June 750
July 816
Aug. 817
Sept. 764
Oct. 811
Nov. 753
Dec. 630 43,813

1961
Month BOPM
Jan. 831
Feb. 767
March 854
April 826
May 811
June 736
July 731
Aug. 733
Sept. 708
Oct. 651
Nov. 659
Dec. 650 52,770

1962
Jan. 631
Feb. 567
March 610
April 602
May 588
June 507
July 556
Aug. 625
Sept. 551
Oct. 527
Nov. 478
Dec. 534 59,546

1963
Jan. 485
Feb. 457
March 517
April 407
May 502
June 460
July 463
Aug. 459
Sept. 413
Oct. 452
Nov. 447
Dec. 446 65,054

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	32
CASE NO.	3439

Page No. 2
Production Data
Phillips Federal Lease

1964

<u>Month</u>	<u>BOPM</u>	
Jan.	423	
Feb.	434	
March	445	
April	446	
May	435	
June	417	
July	410	
Aug.	409	
Sept.	403	
Oct.	412	
Nov.	414	
Dec.	353	70,055

1965

Jan.	415	
Feb.	376	
March	400	
April	268	
May	294	
June	383	
July	338	
Aug.	404	
Sept.	431	
Oct.	434	
Nov.	401	
Dec.	432	74,631

1966

Jan.	477	
Feb.	422	
March	403	
April	384	
May	416	
June	309	77,042

101
15-10-66

PENNZOIL COMPANY
Production Data
Phillips State Lease
Maljamar Field
Lea County, New Mexico

<u>1957</u>		<u>1961</u>	
<u>Month</u>	<u>BOPM</u>	<u>Month</u>	<u>BOPM</u>
Dec.	2853	Jan.	2773
Total	2853	Feb.	2140
		March	2456
		April	2163
		May	2255
		June	2013
		July	2092
		Aug.	1976
		Sept.	1968
		Oct.	2018
		Nov.	1990
		Dec.	1963
			170,014
<u>1958</u>		<u>1962</u>	
Jan.	5764	Jan.	1984
Feb.	7138	Feb.	1686
March	6132	March	1956
April	6366	April	1639
May	7263	May	1834
June	5990	June	1671
July	5676	July	1627
Aug.	5293	Aug.	1598
Sept.	4874	Sept.	1478
Oct.	4653	Oct.	1518
Nov.	4673	Nov.	1565
Dec.	4389	Dec.	1625
	71,064		190,201
<u>1959</u>		<u>1963</u>	
Jan.	4239	Jan.	1611
Feb.	3712	Feb.	1398
March	3765	March	1503
April	3409	April	1460
May	3611	May	1401
June	3500	June	1574
July	3491	July	1654
Aug.	3412	Aug.	1466
Sept.	3080	Sept.	1472
Oct.	3120	Oct.	1393
Nov.	2985	Nov.	1295
Dec.	3044	Dec.	1287
	112,432		207,715
<u>1960</u>			
Jan.	3059		
Feb.	2855		
March	2797		
April	3008		
May	2939		
June	2530		
July	2574		
Aug.	2416		
Sept.	2356		
Oct.	2679		
Nov.	2414		
Dec.	2086		
	144,145		

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
EXHIBIT NO.	34
CASE NO.	3437

Page No. 2
Production Data
Phillips State Lease

1964

<u>Month</u>	<u>BOPM</u>	
Jan.	1337	
Feb.	1178	
March	1375	
April	1370	
May	1193	
June	1129	
July	1291	
Aug.	1251	
Sept.	1205	
Oct.	1183	
Nov.	1205	
Dec.	1327	222,759

1965

Jan.	1327	
Feb.	1143	
March	1198	
April	1180	
May	1033	
June	1129	
July	1053	
Aug.	1155	
Sept.	1217	
Oct.	1250	
Nov.	1174	
Dec.	1192	236,810

1966

Jan.	1116
Feb.	980
March	1327
April	1150
May	1025
June	946

Cumulative
Production
7-1-66 243,354

PENNZOIL COMPANY

Production Tests

PHILLIPS STATE LEASE
Maljamar Field
Lea County, New Mexico

WELL NO.	DATE	STATUS	HRS.	BO	BW	GOR
1	8-20-66	Pumping	24	7.16	3.06	462
2	8-21-66	Pumping	24	1.14	0.20	2036
3	7-23-66	Pumping	24	1.14	0.20	2498
4	7-25-66	Pumping	24	4.57	2.24	623
5	8-24-66	Pumping	24	1.14	0.20	2900
6	8-25-66	Pumping	24	2.27	0.20	715
7		Shut-In				
8	7-27-66	Pumping	24	12.90	8.59	256
9y	7-28-66	Pumping	24	8.31	1.46	216
10		Shut-In				
11		Shut-In				
12	7-30-66	Pumping	24	2.28	0.20	1018
13	7-29-66	Pumping	24	3.75	15.47	759

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Aguel EXHIBIT NO. *5-a*

CASE NO. *2439*

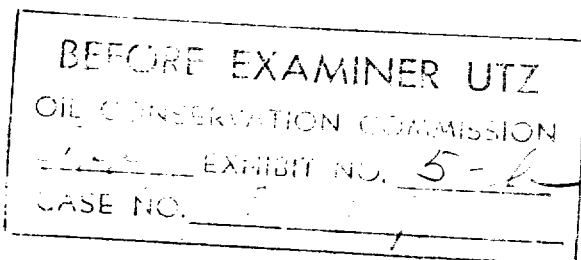
PENNZOIL COMPANY

Production Tests

PHILLIPS FEDERAL LEASE
Maljamar Field
Lea County, New Mexico

WELL NO.	DATE	STATUS	HRS.	BO	BW	GOR
1	5-13-66	Pumping	24	6.82	6.79	340
2y	5-13-66	Pumping	24	5.11	6.88	160
* 3		Pumping				

* Well #3 (Corbin Queen)





RECEIVED
AUG 4 1966
PENNZOIL

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 1157
Hobbs, New Mexico 88240

IN REPLY REFER TO:

WAH	8-4
WEG	
KRH	X
CAB	
HPG	
LPT	
August 3, 1966	
SH	
GK	
MM	
FMCB	
RJ	
Asst.	
File	

Pennzoil Company
1007 Midland Savings Building
Midland, Texas 79704

Attention: Mr. Kenneth R. Huddleston

Gentlemen:

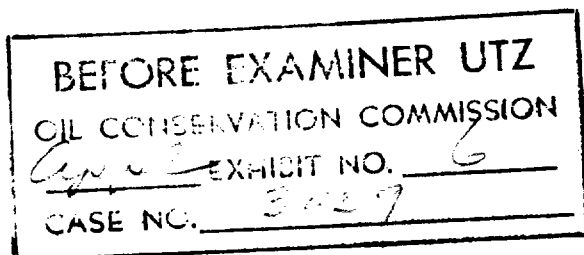
Your letter of July 26 requests approval to institute a waterflood of the Grayburg-San Andres formation in the N $\frac{1}{2}$ NE $\frac{1}{4}$ and the SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 33, T. 17 S., R. 33 E., Lea County, New Mexico, lease Las Cruces 060967. Waterflood operations are to be on a lease basis with cooperation along lease lines in the selection and operation of injection wells.

The plan you propose for waterflooding the Grayburg-San Andres formation on lease Las Cruces 060967 is satisfactory to this office.

Appropriate notices to convert existing wells to water injection should be submitted for approval prior to commencing the work. Duplicate copies of a monthly progress report should be submitted showing the volume of water injected and average pressures for each injection well and monthly oil and water production for the producing wells in the project area.

Approval of the project by the New Mexico Oil Conservation Commission pursuant to Rule 701 is required.

Sincerely yours,



Arthur R. Brown
Arthur R. Brown
District Engineer

DOUBLE EAGLE CORPORATION OF NEW MEXICO

(N. S. L.)

P. O. BOX 1556
ROSWELL, N. MEX. 88201



100 So. KENTUCKY
PHONE
623-2277

September 5, 1966

Mr. Ken Huddelston
Pennzoil Company
706 First National Bank Building
Midland, Texas 79701

WAH	
WEG	
KRH	
CAB	
HPG	
LPT	
JWH	
SH	
GK	
MM	
FMcB	
RJ	
Acct.	
File	

Re: Proposed Waterflood
Sec. 28, T17S, R33E
Lea County, New Mexico

Dear Sir:

Confirming our telephone conversation of August 26 concerning the above, please be advised that the Double Eagle System in that area can adequately furnish estimated 3300 BWPD which will be required by your plant and delivered to your plant site at \$.0275 per barrel.

As soon as possible I will forward for your examination our standard form contract which will be similar to the previous one accomplished by the Caprock Water Company and Zapata Petroleum Corporation.

Yours very truly,

DOUBLE EAGLE CORPORATION OF NEW MEXICO

J. T. Howard
Manager

RECEIVED
SEP 7 1966

PENNZOIL

JTH/eh

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
Exhibit NO.	7
CASE NO.	3459

PENNZOIL COMPANY
Primary & Waterflood Reserves
Phillips State Lease
Maljamar Field
Lea County, New Mexico

Cumulative Production - 7-1-66	243,354 BO
Remaining Primary Reserves	52,556 BO
Ultimate Primary Reserves	295,910 BO
Water Flood Reserves = 100% X Ultimate Primary =	
	295,910 BO

BEFORE EXAMINER UTZ

OIL CONSERVATION COMMISSION

Appl EXHIBIT NO. 8-a

CASE NO. 3459

PENNZOIL COMPANY
Primary & Waterflood Reserves
Phillips Federal Lease
Maljamar Field
Lea County, New Mexico

Cumulative Production - 7-1-66 77,042 BO

Remaining Primary Reserves 26,789 BO

Ultimate Primary Reserves 103,831 BO

Water Flood Reserves = 100% X Ultimate Primary =
103,831 BO

BEFORE EXAMINER UTZ	
OIL CONSERVATION COMMISSION	
<i>Appl</i>	EXHIBIT NO. <i>8-l</i>
CASE NO.	<i>3459</i>