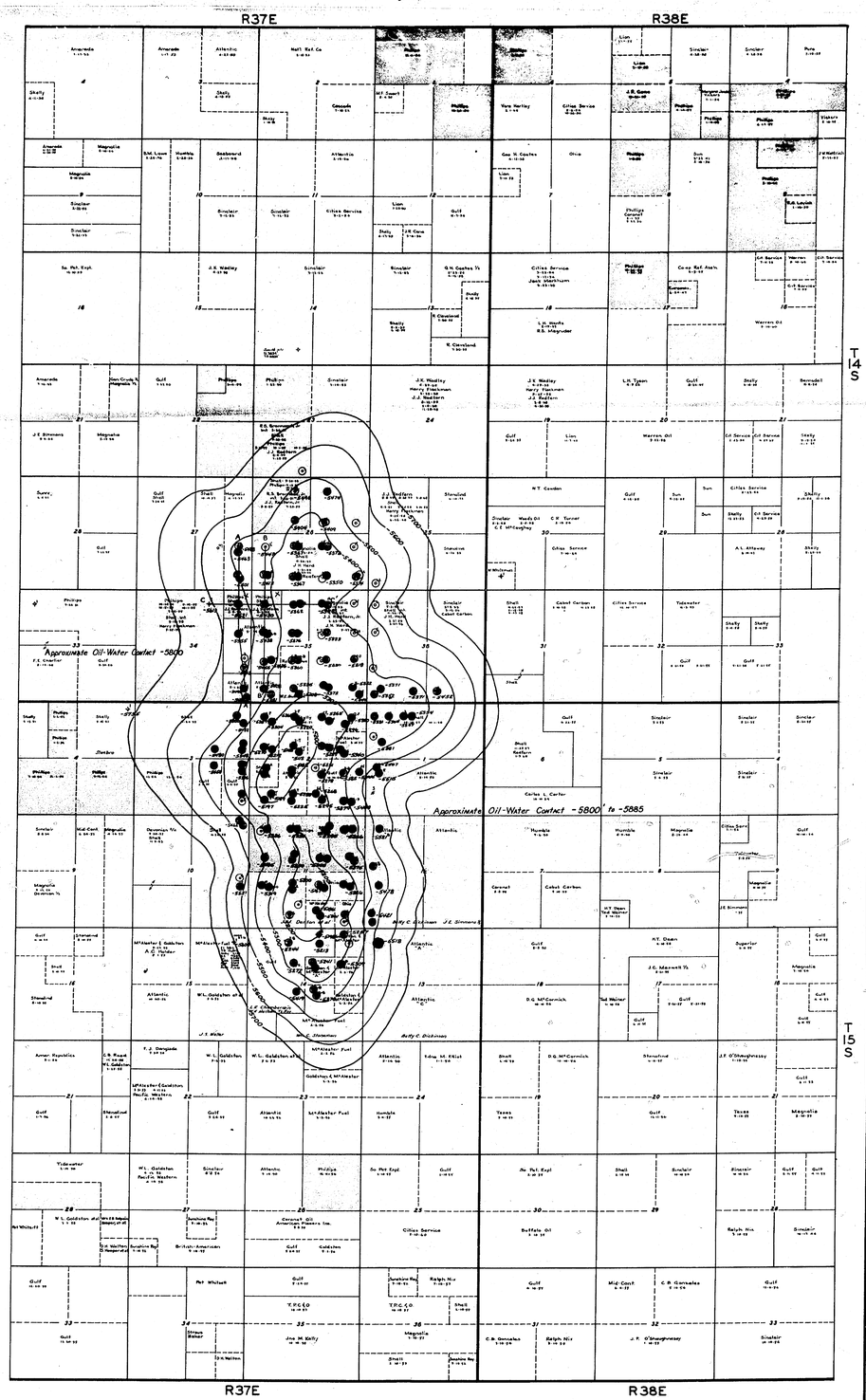
R37E

R38E

T 14 S

T 15 S



R37E

R38E

● WOLFCAMP PRODUCTION
● DEVONIAN PRODUCTION
●

DENTON POOL

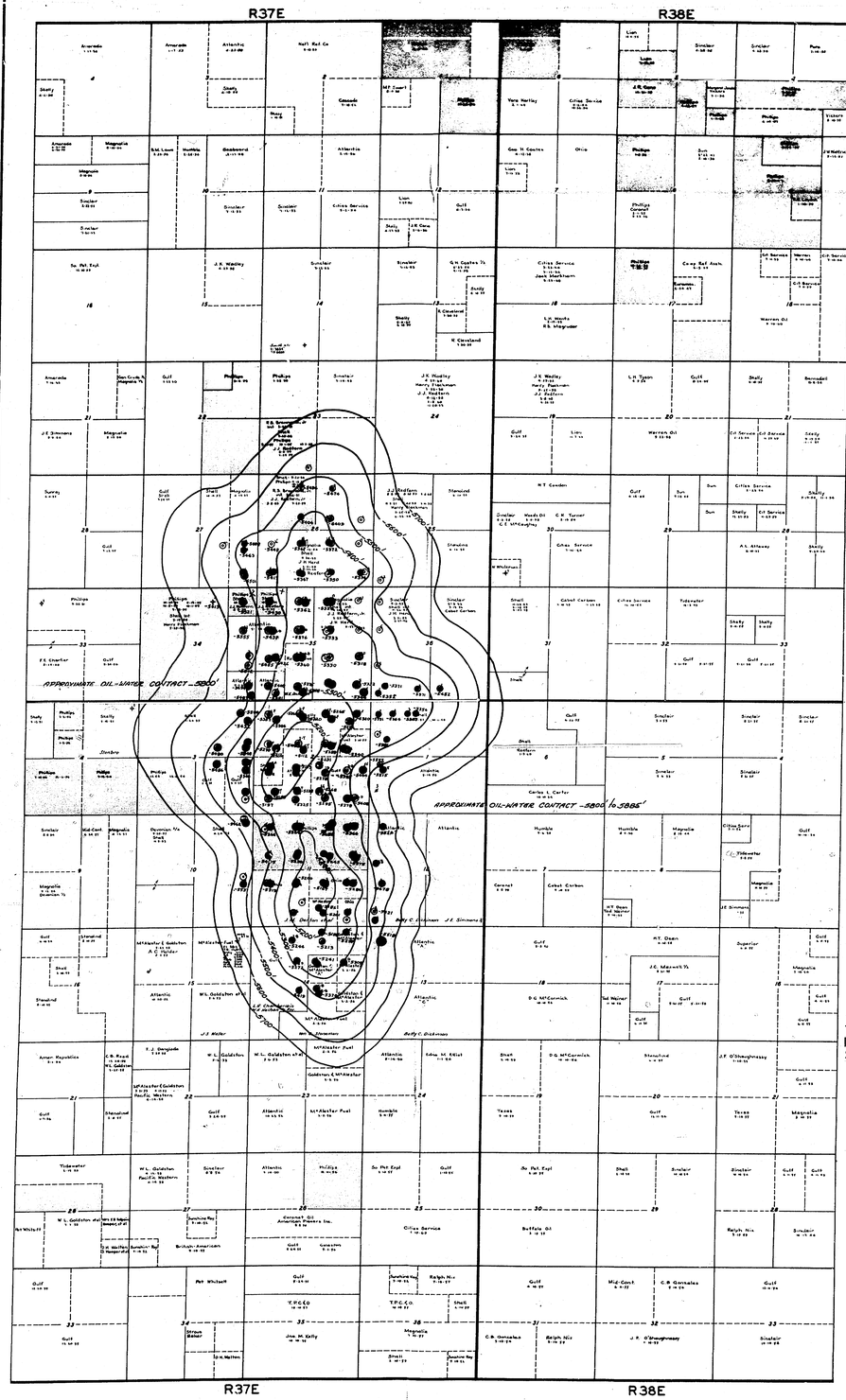
LEA COUNTY, NEW MEXICO

SCALE: 1"= 2000'

CONTOURED ON WOLFCAMP C.I. 100'
TYPE INFO SUBSURFACE DATE 10-12-53
GEOLO. BY _____ DATE _____
MAP NOTED _____ DATE _____
RECOM. REC. _____ DATE _____
DRAWN BY _____ DATE _____
REVISED BY _____ DATE _____

1

2



- WOLFCAMP PRODUCTION
- DEVONIAN PRODUCTION
-

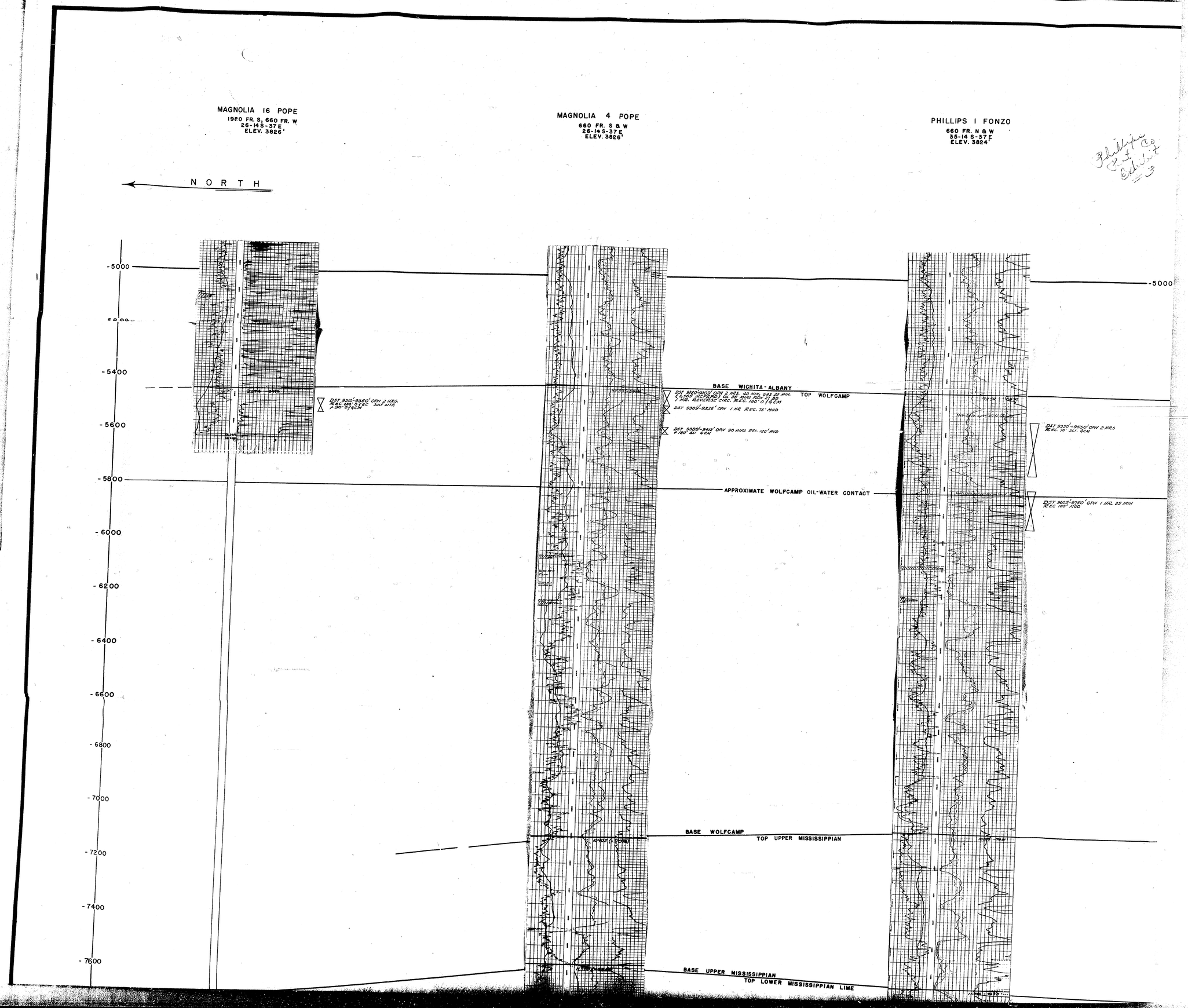
DENTON POOL

LEA COUNTY, NEW MEXICO

SCALE: 1" = 2000'

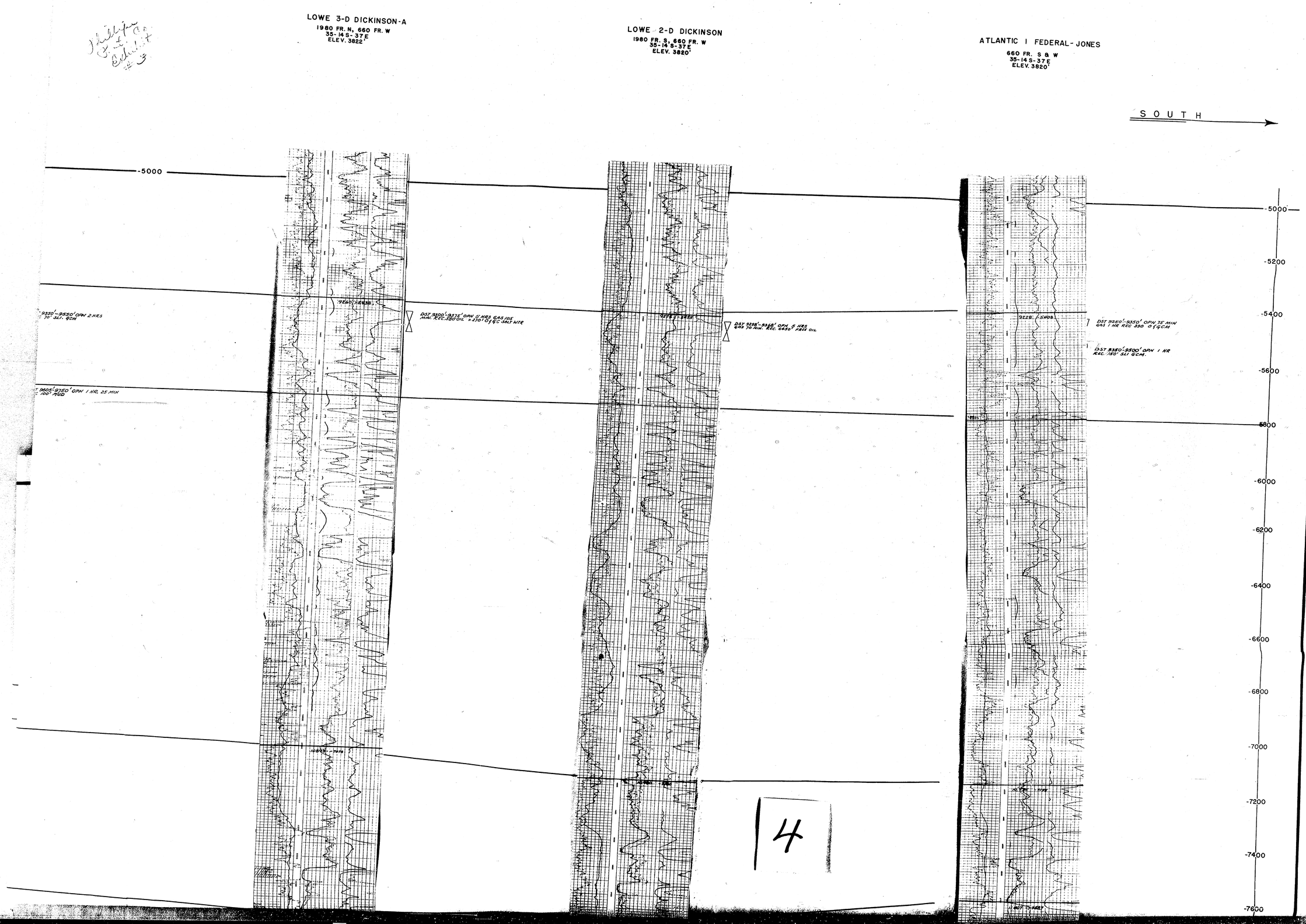
CONTOURED ON	WOLFCAMP	C.I.	100'
TYPE INFO	SUB-SURFACE	DATE	10-12-'53
GEOLO. BY		DATE	
MAP NOTED		DATE	
RECOM. REC.		DATE	
DRAWN BY	[illegible]	DATE	[illegible]
REVISED BY	[illegible]	DATE	[illegible]

Phillips Exhibit #1



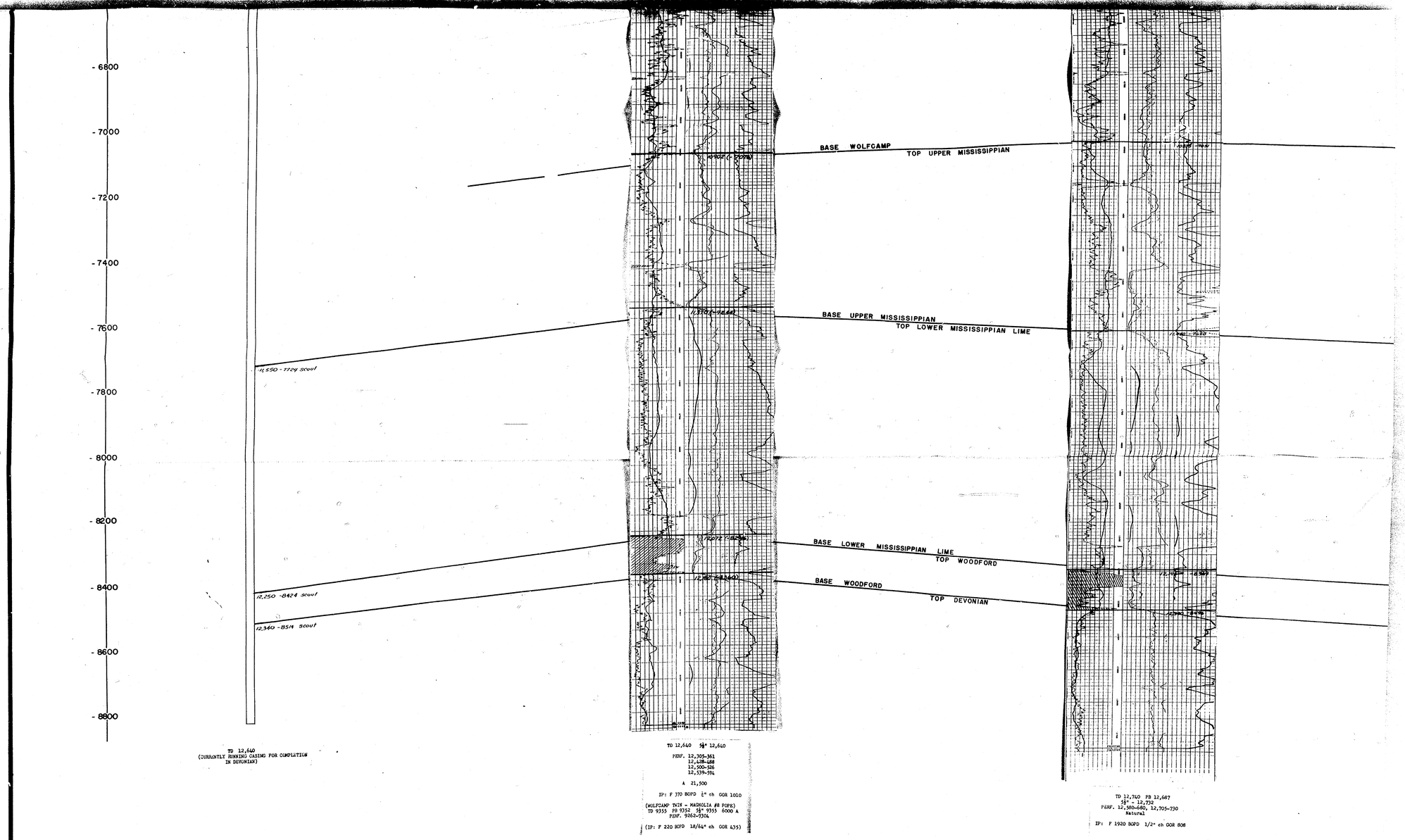
MAGNOLIA 16 POPE
1980 FR. S, 660 FR. W
26-14S-37E
ELEV. 3826'
MAGNOLIA 4 POPE
660 FR. S & W
26-14S-37E
ELEV. 3826'
PHILLIPS 1 FONZO
660 FR. N & W
35-14 S-37E
ELEV. 3824'
NORTH
-5000
-5400
-5600
-5800
-6000
-6200
-6400
-6600
-6800
-7000
-7200
-7400
-7600
BASE WICHITA-ALBANY
TOP WOLFCAMP
APPROXIMATE WOLFCAMP OIL-WATER CONTACT
BASE WOLFCAMP
TOP UPPER MISSISSIPPIAN
BASE UPPER MISSISSIPPIAN
TOP LOWER MISSISSIPPIAN LIME

3

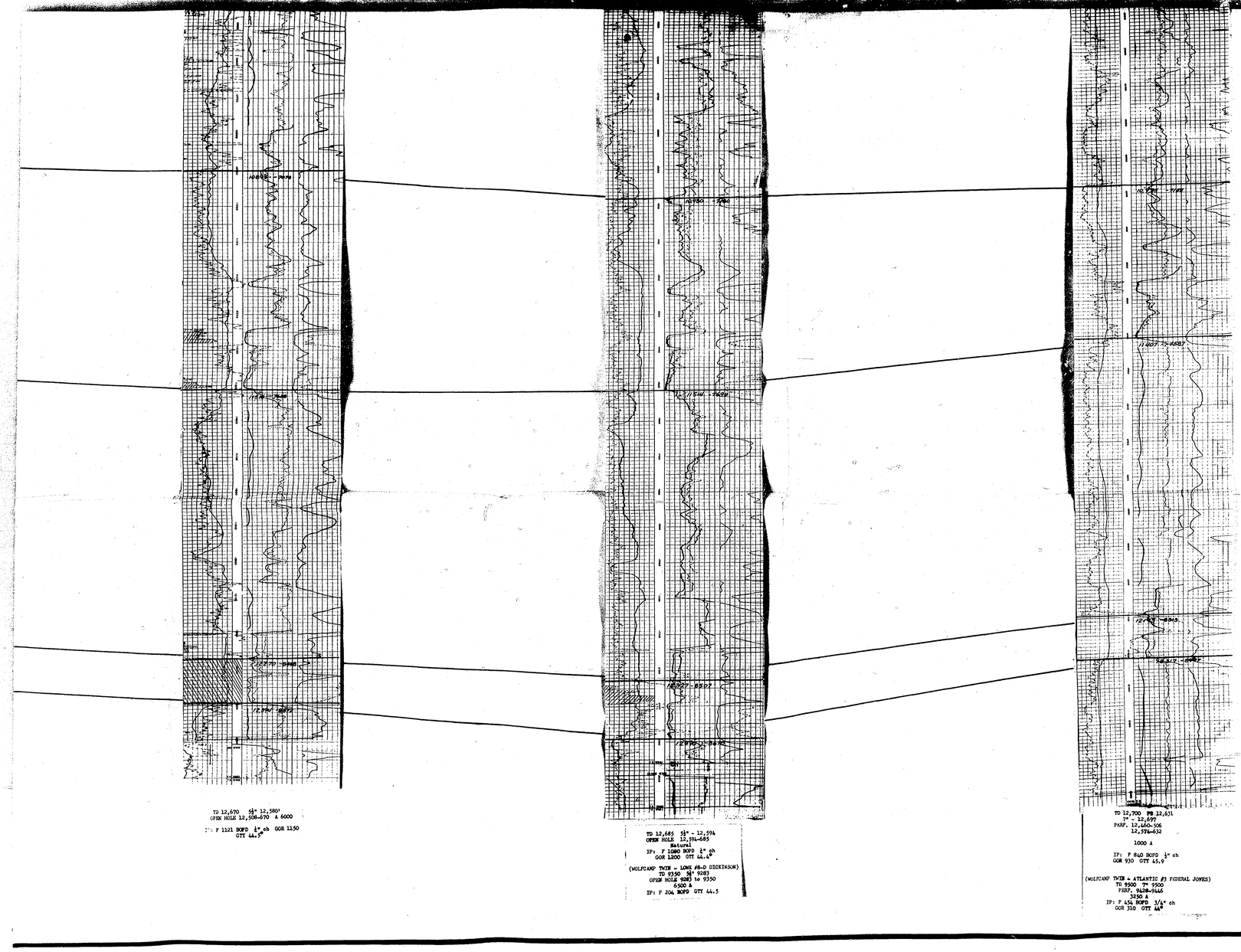


LOWE 3-D DICKINSON-A
1980 FR. N, 660 FR. W
35-14S-37E
ELEV. 3822'
LOWE 2-D DICKINSON
1980 FR. S, 660 FR. W
35-14S-37E
ELEV. 3820'
ATLANTIC I FEDERAL-JONES
660 FR. S & W
35-14S-37E
ELEV. 3820'
SOUTH
-5000
-5200
-5400
-5600
-5800
-6000
-6200
-6400
-6600
-6800
-7000
-7200
-7400
-7600

4


- 6800
- 7000
- 7200
- 7400
- 7600
- 7800
- 8000
- 8200
- 8400
- 8600
- 8800
BASE WOLFCAMP
TOP UPPER MISSISSIPPIAN
BASE UPPER MISSISSIPPIAN
TOP LOWER MISSISSIPPIAN LIME
BASE LOWER MISSISSIPPIAN LIME
TOP WOODFORD
BASE WOODFORD
TOP DEVONIAN
11,550 - 7124 scout
12,250 -8424 scout
12340 -85/4 scout
TD 12,640
(CURRENTLY RUNNING CASING FOR COMPLETION IN DEVONIAN)
TD 12,640 5½" 12,640
PERF. 12,305-361
12,428-468
12,500-526
12,539-594
A 21,500
IP: F 370 BOPD 1" ch GOR 1010
(WOLFCAMP TWIN - MAGNOLIA #8 POPE)
TD 9355 PB 9352 5½" 9355 6000 A
PERF. 9262-7304
(IP: F 220 BOPD 18/64" ch GOR 435)
TD 12,740 PB 12,687
5½" - 12,732
PERF. 12,580-680, 12,705-730
Natural
IP: F 1920 BOPD 1/2" ch GOR 808

5



TD 12,670 5½" 12,580'
OPEN HOLE 12,508-670 A 6000
IP: F 1121 BOPD 1" ch GOR 1150
GTT 44.5°

TD 12,685 5½" - 12,594
OPEN HOLE 12,594-685
Natural
IP: F 1080 BOPD 1" ch
GOR 1200 GTT 44.4°

(WOLFCAMP TWIN - LOWE #8-D DICKINSON)
TD 9350 5½" 9283
OPEN HOLE 9282 to 9350
6500 A
IP: F 204 BOPD GTT 44.5

TD 12,700 PB 12,631
7" - 12,697
PERF. 12,560-506
12,574-632
1000 A
IP: F 840 BOPD ¼" ch
GOR 930 GTT 45.9

(WOLFCAMP TWIN - ATLANTIC #3 FEDERAL JONES)
TD 9500 7" 9500
PERF. 9428-9445
3250 A
IP: F 454 BOPD 3/4" ch
GOR 310 GTT 44°

NORTH & SOUTH CROSS SEC. B-B'

SEC. 26-35, T14S - R37E

DENTON POOL

LEA COUNTY, NEW MEXICO

SCALE: HORIZONTAL 1" = 200'
VERTICAL 1" = 200'

OCTOBER 12, 1953

PHILLIPS PETROLEUM COMPANY

6

① Case 557
Magnolia Exhibit #1

116,000

Case No. 557
Magnolia

Company & Lease	Well No.	Unit	S-T-R	No. of Mos. Prod.	Acc. Prod. 9-1-53
Atlantic Ref. Co					
Dickinson A-13;	1	D	13-15-37	19	51,139
A-24	1	H	24-14-37	6	18,158
A-1	2	L	1-15-37	2	107,199
B. DICKINSON:					
	1	L	12-15-37	19	147,075
	2	D	12-15-37	20	91,987
	4	E	"	7	27,172
	5	M	"	3	6,933
FEDERAL JONES:					
	3	M	35-14-37	9	41,466
42	4	P	34-14-37	3	11,603
STATE "T":					
	5	N	2-15-37	6	31,446
	6	F	"	10	49,527
	7	N	"	6	31,720
	8	M	"	7	31,801
GULF OIL CO.					
CHAMBERLIN	3	F	14-15-37	3	10,977
	4	K	"	14	66,672
	5	B	"	14	64,710
LEE STATE "G"	5	I	2-15-37	10	47,127
	6	J	"	8	38,299
	7	P	"	7	30,071
	8	O	"	6	27,181
SIMPSON	4	I	3-15-37	4	9,702
	5	P	3-15-35	1	546
RALPH LOWE DICKINSON "D"	7	N	35-14-37	5	21,417
	8	L	"	3	12,995
	9	C	"	2	5,573
	10	K	"	1	3,060

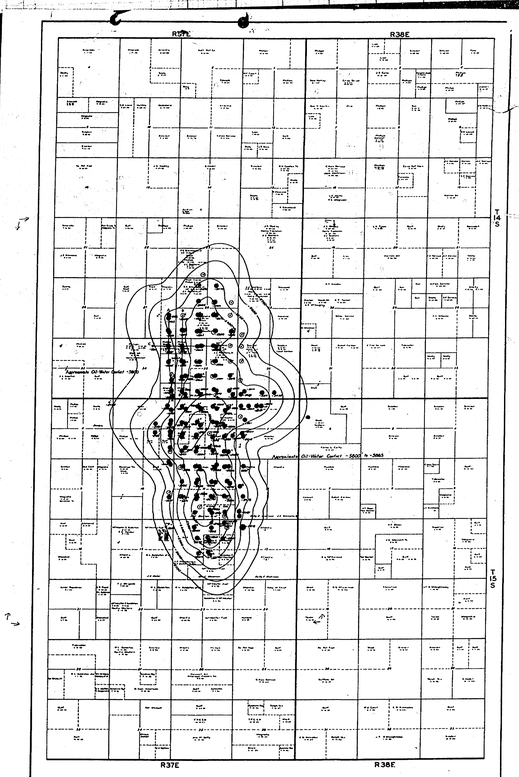
② Case 557
Magnolia Exhibit #1

Company & Lease	Well No.	Unit	S-T-R	Number of Mos. Prod.	Acc. Prod. 9-1-53	Acc. Prod.
MAGNOLIA PETROLEUM CO						
12' MAXWELL	2	P	27-14-37	6	27,537	166
	4	I	27-14-37	1	2,433	166
POPE	2	O	35-14-37	10	46,374	
	8	M	26-14-37	4	19,960	
28 (6')	11	P	35-14-37	4	16,655	
	15	J	26-14-37	2	8,465	
	18	N	26-14-37	2	6,298	
McALESTER FUEL CO						
DENTON A	2	O	11-15-37	20	189,702	
McCLURE A	2	G	14-15-37	7	25,261	
B	2	J	"	9	37,516	
D	1	H	"	9	17,853	
STATE A	2	H	2-15-37	16	78,093	
OHIO OIL CO						
DENTON	1	K	11-15-37	20	170,517	
	2	I	"	20	170,578	
	8	J	"	12	57,029	
	10	L	"	1	1,963	
PHILLIPS PETROLEUM CO						
DENTON	4	G	11-15-37	16	80,225	
	5	A	"	14	70,074	
	8	F	"	18	92,796	
	10	H	"	17	80,700	
	11	B	"	17	80,646	
	14	C	"	12	63,735	
SHELL OIL CO						
ARGO	4	A	3-15-37	9	40,141	
	5	H	"	5	10,221	
PACIFIC ROYALTY	2	I	10-15-37	1	2,380	
PRIEST	4	D	1-15-37	7	33,773	
STATE A	2	L	2-15-37	11	48,987	

③ Case 557
Magnolia Exhibit No. 1.
Fort 5'
Forge 7'

Company & Lease	Well No.	Unit	S-T-R	Number of Mos. Prod.	Acc. Prod. 9-1-53
SKELLY OIL CO					
MEXICO F	6	C	2-15-37	17	82,415
	7	G	"	16	78,394
	8	D	"	14	70,097
	9	E	"	14	71,903
	11	B	"	13	60,250
	12	A	"	4	20,788

7



● WOLFCAMP PRODUCTION
● DEVONIAN PRODUCTION
●

DENTON POOL
LEA COUNTY, NEW MEXICO
SCALE: 1" = 2000'
CONTOURED ON WOLFCAMP: 100'
TYPE INFO SUBSURFACE DATE 10-12-53
GEOLD BY _____ DATE _____
MAP NOTED _____ DATE _____
RECOM. REC. _____ DATE _____
DRAWN BY _____ DATE _____
REVISED BY _____ DATE _____

Case # 556-557

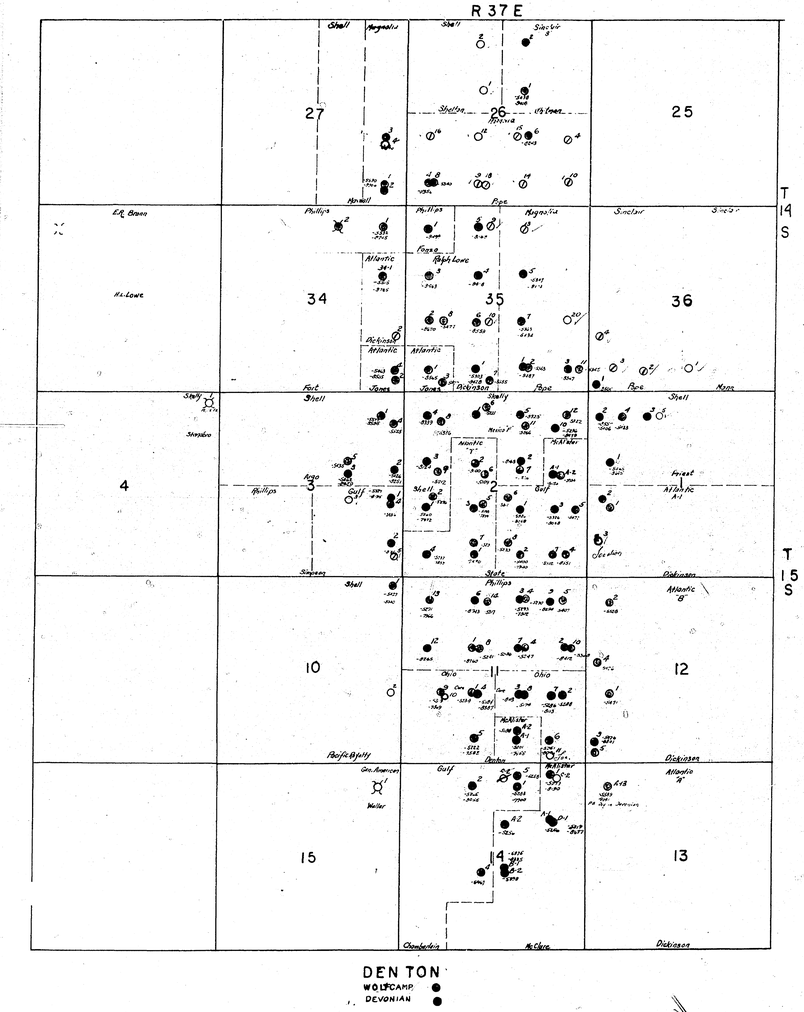
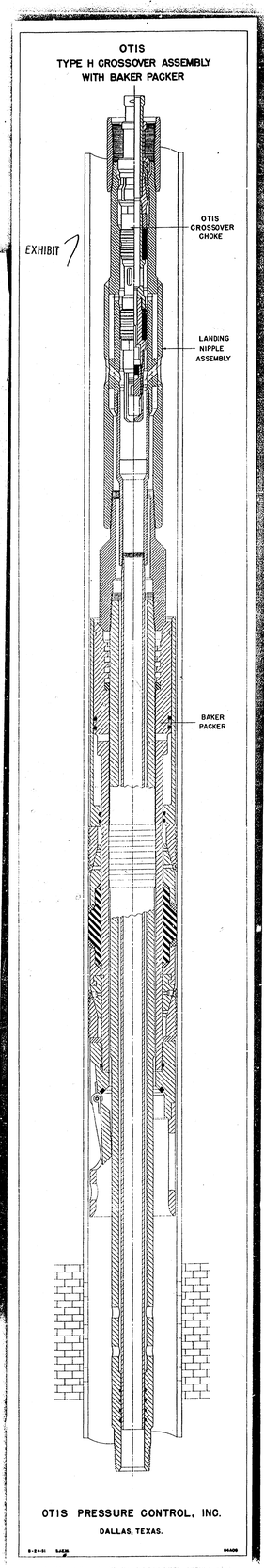
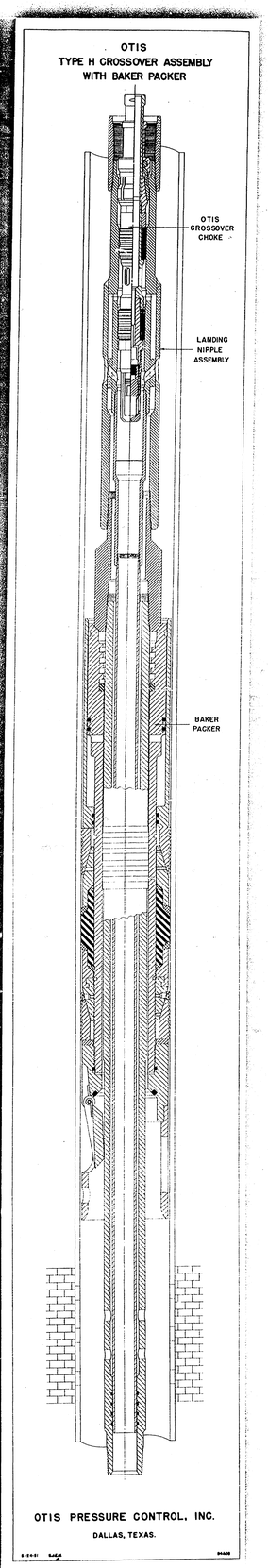


EXHIBIT 1

8



OTIS PRESSURE CONTROL, INC.
DALLAS, TEXAS.



OTIS PRESSURE CONTROL, INC.
DALLAS, TEXAS.

WEST

PHILLIPS NO. 2 FORT
1980' FR. E, 664' FR. N SEC. 34
14 S - 37 E
ELEV. 3827'

PHILLIPS NO. 1 FORT
664' FR. N., 660 FR. E SEC. 34
14 S - 37 E
ELEV. 3829'

PHILLIPS NO. 1 FONZO
660 FR. N & W, 35-14S-37E
ELEV. 3824'

LOWE NO. 5-D DICKINSON
1980' FR. W, 660' FR. N SECTION 35
14S - 37E
ELEV. 3822'

-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
-6200'
-6400'
-6600'
-6800'
-7000'
-7200'
-7400'

BASE WICHITA - ALBANY
TOP WOLFCAMP

APPROXIMATE OIL-WATER CONTACT

BASE WOLFCAMP
TOP UPPER MISSISSIPPIAN

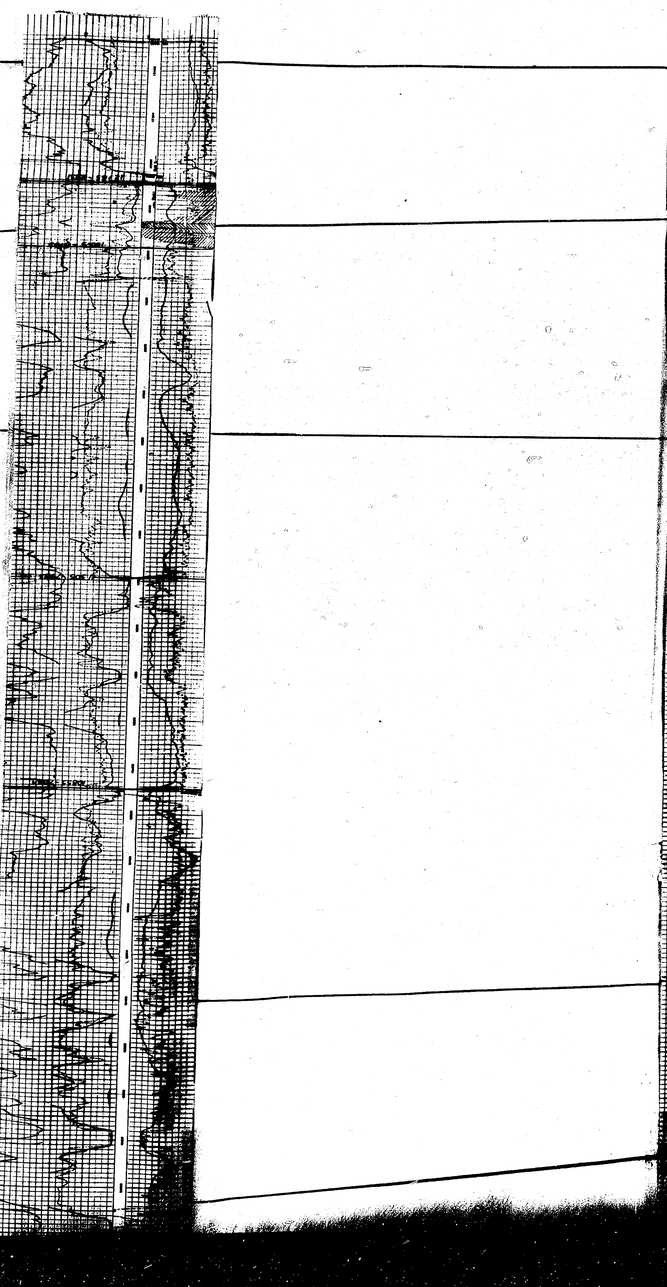
TD 9780 PB 9514
SIP 9700
PLUGGED & ABANDONED

91

EAST

LOWE NO. 5-D DICKINSON
1980' FR. W, 660' FR. N SECTION 35
14S – 37E
ELEV. 3822'

MAGNOLIA NO. 13 POPE
980' FR. E, 660' FR. N SEC. 35
14S – 37E
ELEV. 3820'



WICHITA – ALBANY
TOP WOLFCAMP

OIL–WATER CONTACT

TOP WOLFCAMP
TOP MISSISSIPPIAN

-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
-6200'
-6400'
-6600'
-6800'
-7000'
-7200'
-7400'

10

-6800'

-7000'

-7200'

-7400'

-7600'

-7800'

-8000'

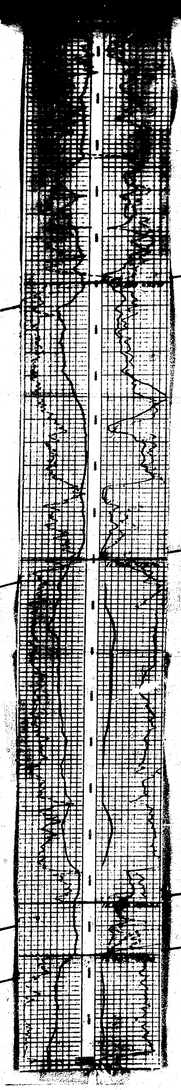
-8200'

-8400'

-8600'

-8800'

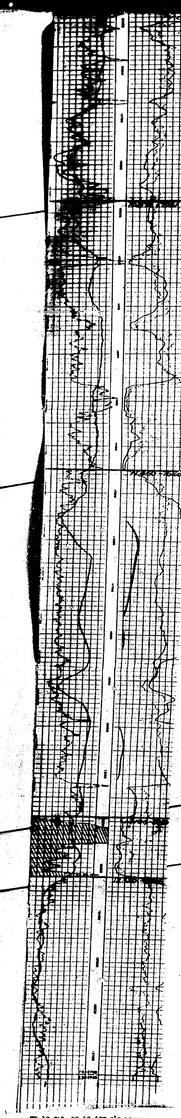
-9000'



TD 12,804 PB 12,724 5½" 12,799

PERF. 12,710-770
12,660-710
12,564-630

1500 Acid
IP: F 1344 BO / 148 BWPD 1/2" ch
GOR 1326
GTT 43.7



TD 12,760 PB 12,687 5½" 12,732

PERF. 12,705-730
12,580-680

NATURAL
IP: F 1920 BOPD 1/2" ch GOR 808
GTT 45

TOP UPPE

BASE UP

TOP LOW

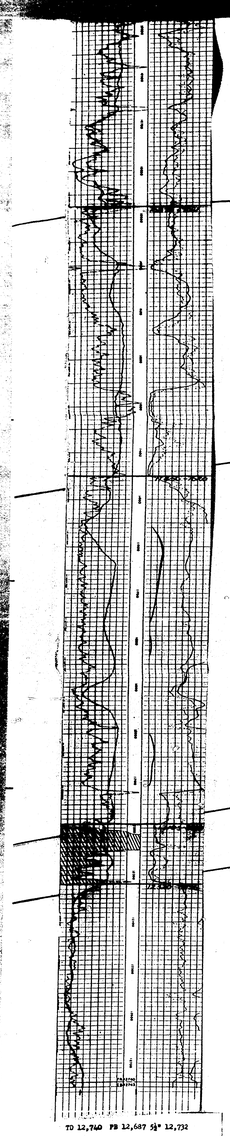
BASE LOWER

TOP

BASE

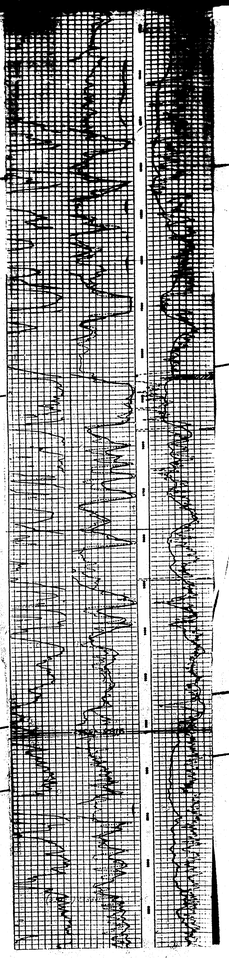
TOP

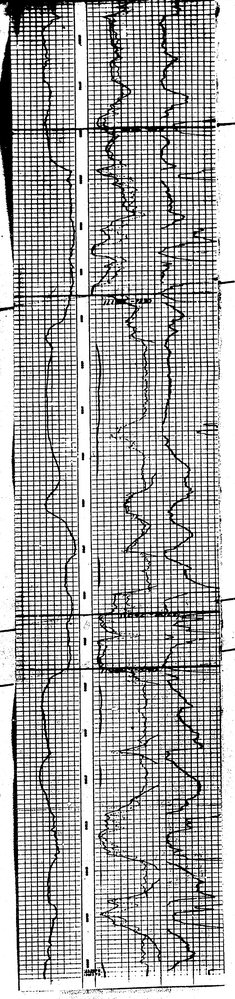
11



TD 12,740 PB 12,687 5½" 12,732
PERF. 12,705-730
12,580-680

NATURAL
IP: F 1920 BOPD 1/2" ch GOR 808
GTY 45





-6800'
-7000'
-7200'
-7400'
-7600'
-7800'
-8000'
-8200'
-8400'
-8600'
-8800'
-9000'

EAST-WEST CROSS SECTION - C & C'

SECTIONS 34 & 35 T14S R37E
DENTON POOL
LEA COUNTY, NEW MEXICO

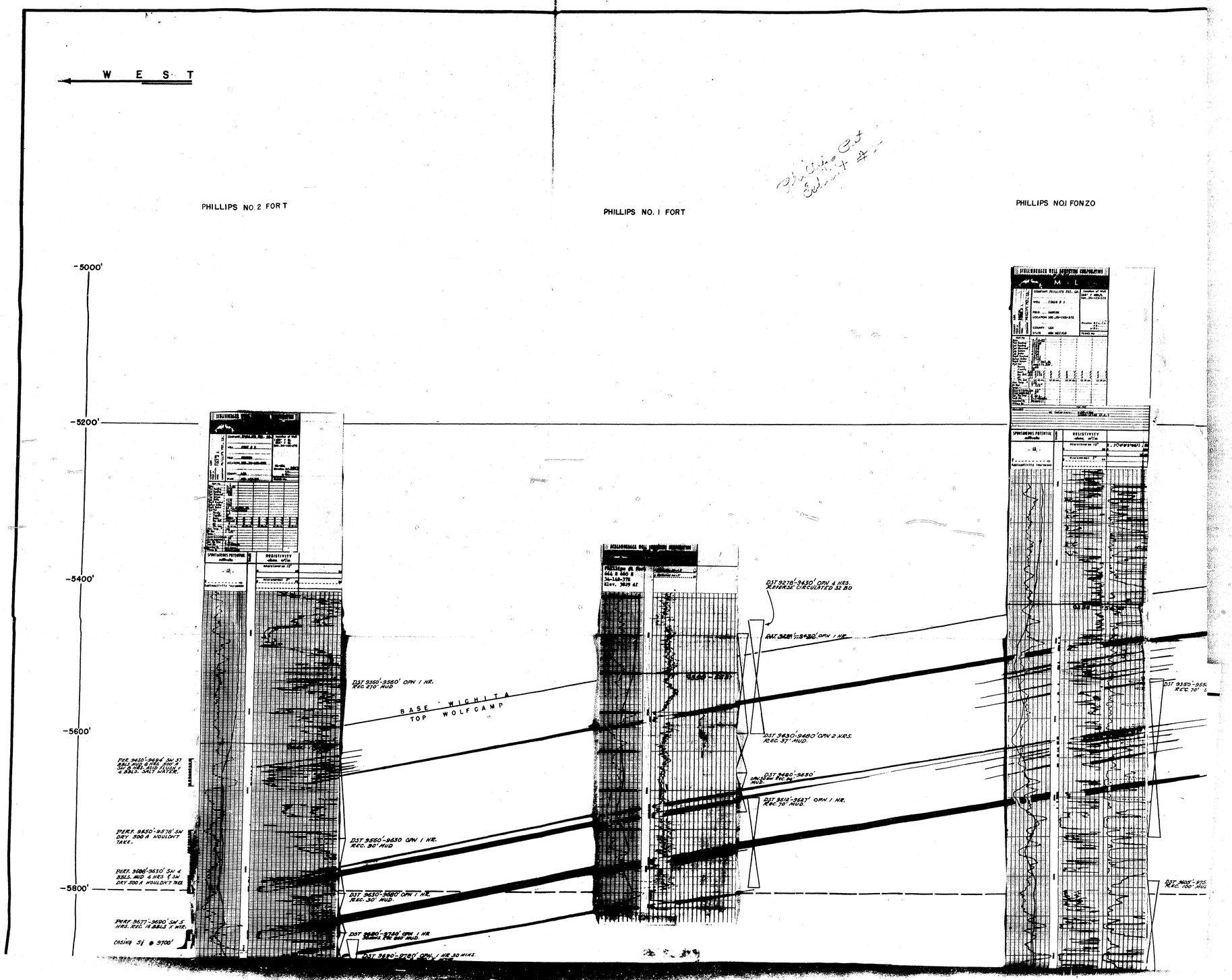
SCALE: HORIZONTAL 1" = 200'
VERTICAL 1" = 200'

OCTOBER 12, 1953

PHILLIPS PETROLEUM COMPANY

12

13



W E S T
PHILLIPS NO. 2 FORT
PHILLIPS NO. 1 FORT
PHILLIPS NO.1 FONZO
-5000'
-5200'
-5400'
-5600'
-5800'
BASE WICHITA
TOP WOLFCAMP
DST 9360'-9560' OPN 1 HR. REC. 270' MUD
DST 9560'-9630 OPN 1 HR. REC. 90' MUD
DST 9630'-9680' OPN 1 HR. REC. 30' MUD.
DST 9680'-9780' OPN 1 HR 30 MINS.
DST 9278'-9430' OPN 4 HRS. REVERSE CIRCULATED 32 BO
DST 9430'-9480' OPN 2 HRS. REC. 37' MUD.
DST 9480'-9530'
DST 9512'-9627' OPN 1 HR. REC. 70' MUD.
PERF. 9650'-9694' SW 37 BBLS. MUD 8 HRS. 500 A SW 8 HRS. ACID FLUSH + 4 BBLS. SALT WATER.
PERF. 9650'-9570' SW DRY 500 A WOULDN'T TAKE.
PERF. 9688'-9650' SW 4 BBLS. MUD 4 HRS & SW DRY 500 A WOULDN'T TAKE
PERF. 9677'-9690' SW 5 HRS. REC. 16 BBLS X WTR.
CASING 5½ @ 9700'

14

LOWE NO. 5-D DICKINSON

LOWE NO. 9-D DICKINSON
660'N 2310'W SEC. 35-14S-37E
ELEV. 3820'

(TWIN TO LOWE 5-D DICKINSON)
(NO LOG RUN)

MAGNOLIA NO. 22, POPE

MAGNOLIA NO. 13 POPE

E A S T

-5000'

-5200'

-5400'

-5600'

-5800'

BASE WICHITA
TOP WOLFCAMP

DST 9350'-9550' OPN 2 HRS
REC 70' SI GCM

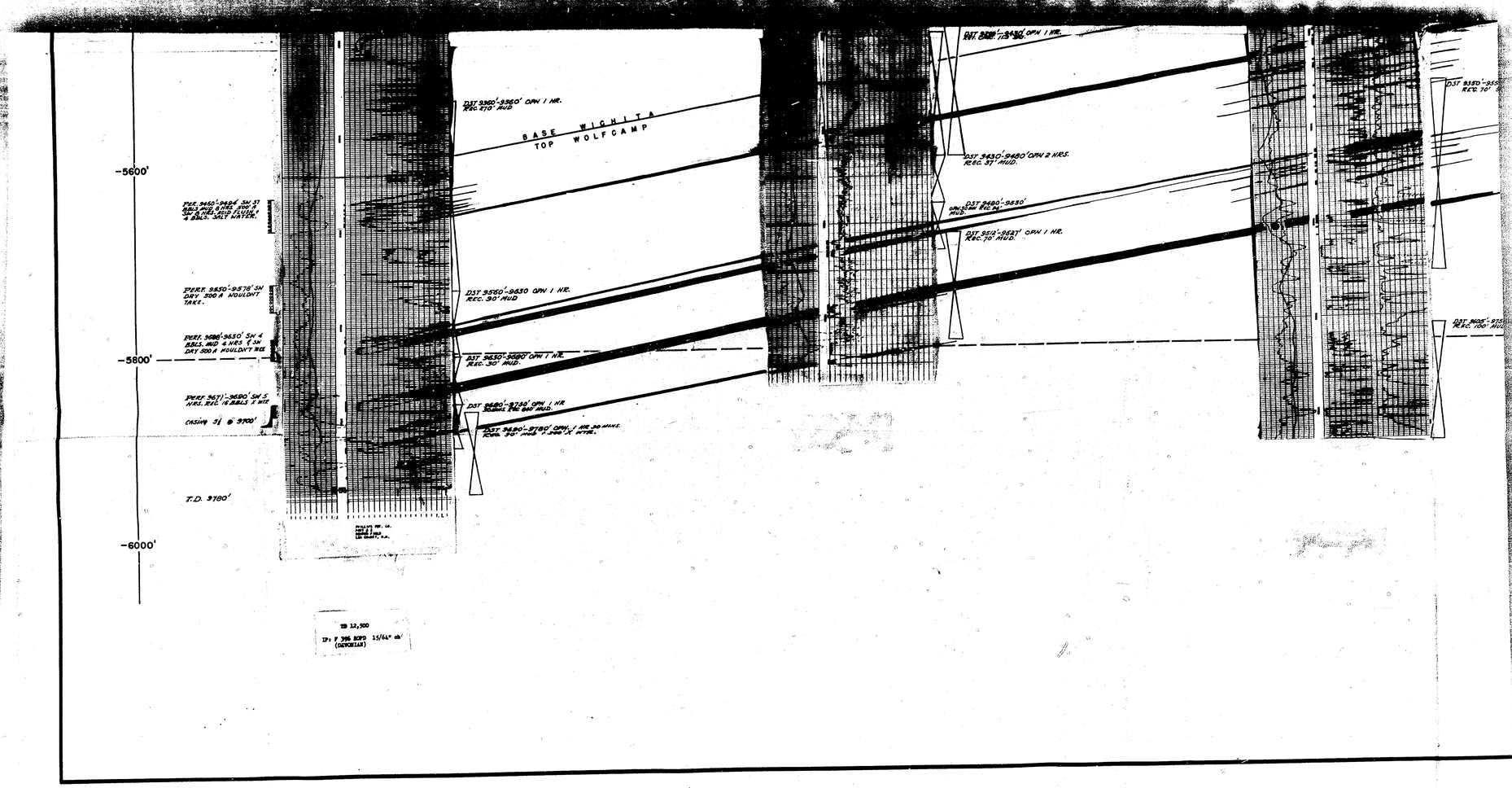
DST 9605'-9750' OPN 1 HR. 25 MIN.
REC. 100' MUD

DST 9113'-9165' OPN 1 HR.
REC. 10' MUD

DST 9267'-9328' OPN 3 HRS.
F.P. 70-50 2 HRS.

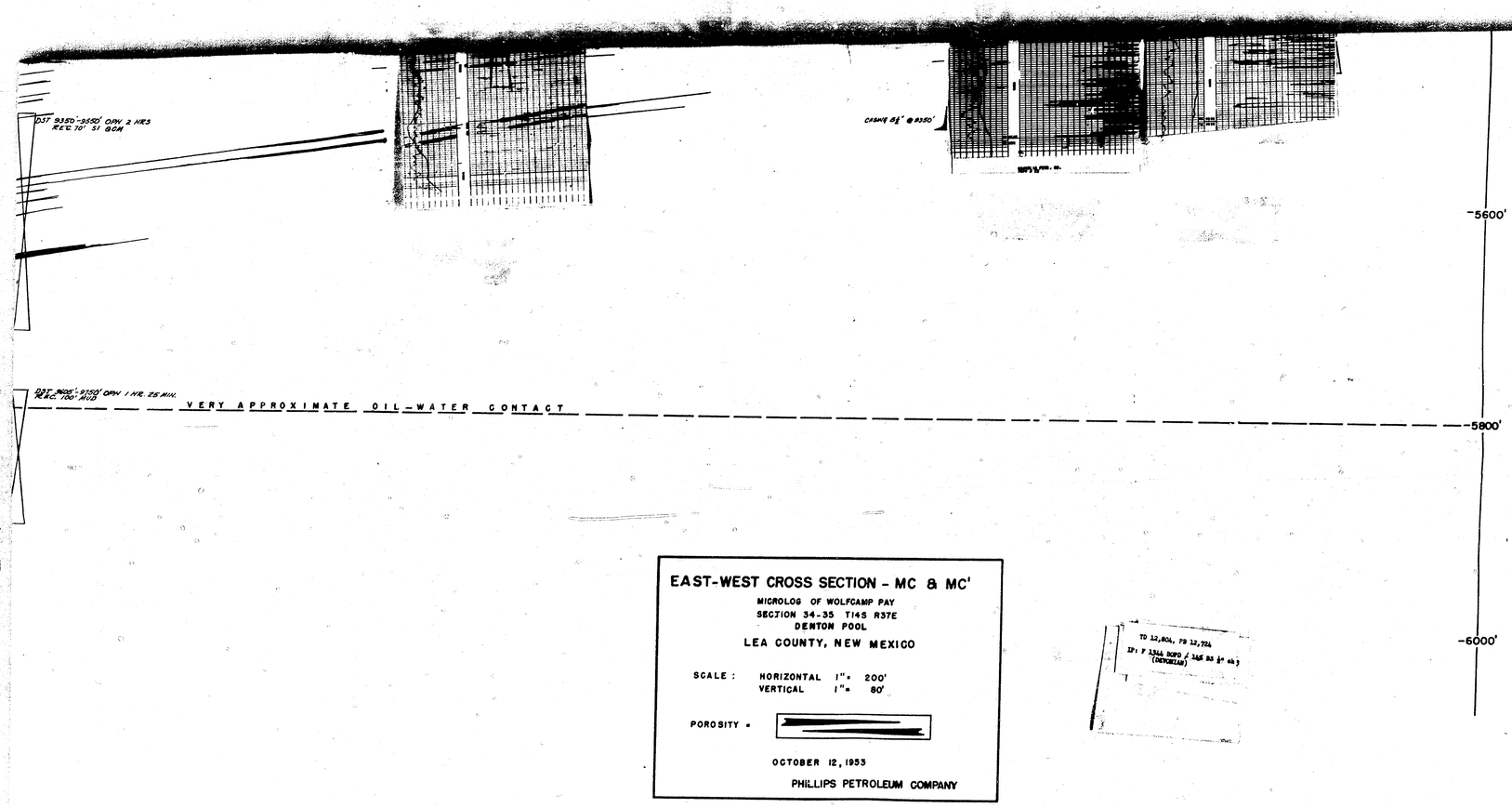
DST 9228'-9295' OPN 1 HR.
REC. 100' SI OGCM

VERY APPROXIMATE OIL-WATER CONTACT



-5600'
-5800'
-6000'
BASE WICHITA
TOP WOLFCAMP
DST 9360'-9560' OPN 1 HR. REC. 270' MUD
DST 9560'-9630 OPN 1 HR. REC. 90' MUD
DST 9630'-9680' OPN 1 HR. REC. 30' MUD.
DST 9680'-9730' OPN 1 HR 30 MINS. REC. 840' MUD.
DST 9680'-9780' OPN 1 HR 30 MINS. REC. 90' MUD + 300' X WTR.
DST 9430'-9480' OPN 2 HRS. REC. 37' MUD.
DST 9480'-9530' OPN 55 MIN REC. 24' MUD.
DST 9512'-9627' OPN 1 HR. REC. 70' MUD.
PERF. 9550'-9578' SN DRY 500 A WOULDN'T TAKE.
PERF. 9680'-9630' SN 4 BBLS. MUD 4 HRS & SN DRY 500 A WOULDN'T TAKE
PERF. 9671'-9690' SN 5 HRS. REC. 16 BBLS X WTR.
CASING 5½ @ 9700'
T.D. 9780'
TD 12,500
IP: F 396 BOPD 15/64" ch
(DEVONIAN)

15



EAST-WEST CROSS SECTION - MC & MC'

MICROLOG OF WOLFCAMP PAY
SECTION 34-35 T14S R37E
DENTON POOL
LEA COUNTY, NEW MEXICO

SCALE : HORIZONTAL 1" = 200'
VERTICAL 1" = 80'

POROSITY = [redacted]

OCTOBER 12, 1953

PHILLIPS PETROLEUM COMPANY

16

N O R T H

MAGNOLIA NO. 3 MAXWELL
1980' FR. S.- 660' FR. EAST
SEC. 27 - 14 S. - 37 E
ELEV. 3837'

MAGNOLIA NO. 1 MAXWELL
660' FR. S & E L'S
SEC. 27-14S.-37E.

PHILLIPS PET. NO. 1 FORT
660' FR. N. & E. LINES
SEC. 34 - 14 S - 37 E.
ELEV. 3829'

ATLANTIC NO. 3-A DICKINSON
1980' FR. N. & 660' E.
SEC. 34 - 14 S - 37 E.
ELEV. 3825'

-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
-6200'
-6400'
-6600'

BASE WICHITA - ALBANY

TOP WOLFCAMP

DST 9190'-9300' OPN 20 MIN
REC. 20' MUD

DST 9353'-9403' OPN 3 HRS.
REC. 7245' OIL

DST 9406'-9461 OPN 1 HR. 35 MIN.
REC. 30' MUD

DST 9288'-9430' OPN 1 HR I REV. CIRC.
REC. 11,3 BO

DST 9278'-9430' OPN 4 HRS. REV. CIRC.
REC. 32 BO FP 900 15 SI 1500

DST 9430'-9480' OPN 2 HRS.
REC. 37' MUD

DST 9480-9530 OPN 30 MINS.
REC. 94' MUD.

DST 9512'-9627' OPN 1 HR.
REC. 70' MUD

61

N O R T H

MAGNOLIA NO. 3 MAXWELL
1980' FR S. - 660' FR. EAST
SEC. 27 - 14 S. - 37 E
ELEV. 3837'

MAGNOLIA NO. 1 MAXWELL
660' FR. S & E L'S
SEC. 27 - 14S. - 37 E.

PHILLIPS PET. NO. 1 FORT
660' FR. N. & E. LINES
SEC. 34 - 14 S - 37 E.
ELEV. 3829'

ATLANTIC NO. 3-A DICKINSON
1980' FR N & 660' E.
SEC 34 - 14 S - 37 E.
ELEV. 3825'

-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
-6200'
-6400'
-6600'

BASE WICHITA - ALBANY

TOP WOLFCAMP

DST 9190'-9300' OPN 20 MIN
REC. 20' MUD

DST 9353'-9403' OPN 3 HRS.
REC. 7245' OIL

DST 9406'-9461' OPN 1 HR. 35 MIN.
REC. 30' MUD

DST 9298'-9430' OPN 1 HR I REV. CIRC.
REC. 11, 3 BO

DST 9278'-9430' OPN 4 HRS. REV. CIRC.
REC. 32 BO FP 900 15 SI 1500

DST 9430'-9480' OPN 2 HRS.
REC. 37' MUD

DST 9480'-9530 OPN 30 MINS.
REC. 94' MUD.

DST 9512'-9627' OPN 1 HR.
REC. 70' MUD

61

S O U T H

ATLANTIC NO. 3-A DICKINSON
1980' FR. N. & 660' E.
SEC. 34 - 14 S - 37 E.
ELEV. 3825'

ATLANTIC NO. 2 DICKINSON A-34
1650' FR. S - 330' FR. E.
SEC. 34 - 14 S - 37 E
ELEV. 3825'

ATLANTIC NO. 2 JONES
330' FR. S & E LINES
SEC. 34 - 14 S - 37 E.
ELEV. 3822'

Phillips Section #2

5000'

WICHITA ALBANY

BASE WICHITA - ALBANY

TOP WOLFCAMP

VERY APPROXIMATE WOLFCAMP OIL - WATER CONTACT - 5800'

WOLFCAMP

DST 9204'-9252' OPN 10 MIN. REC. 30' MUD

DST 9300'-9400' OPN 1 HR. REC. 60' OGCM + 1990' OIL

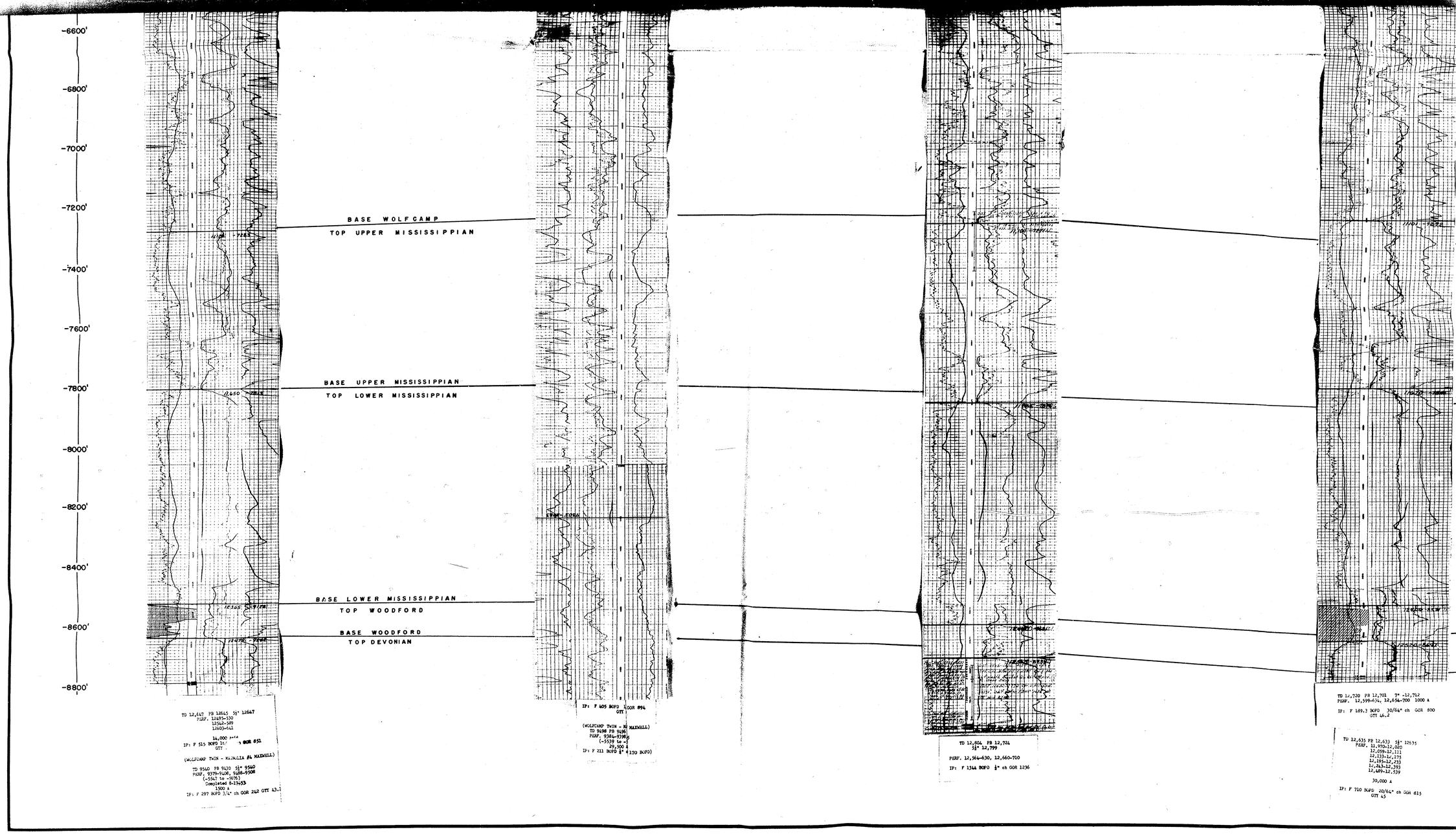
DST 9325'-9425' OPN. 1 HR. REC. 90' OGCM + 6390' OIL

DST 9425'-9500' OPN 1 HR. REC. 15' MUD

-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
-6200'
-6400'
-6600'
-6800'

Phillips Exhibit No. 2

62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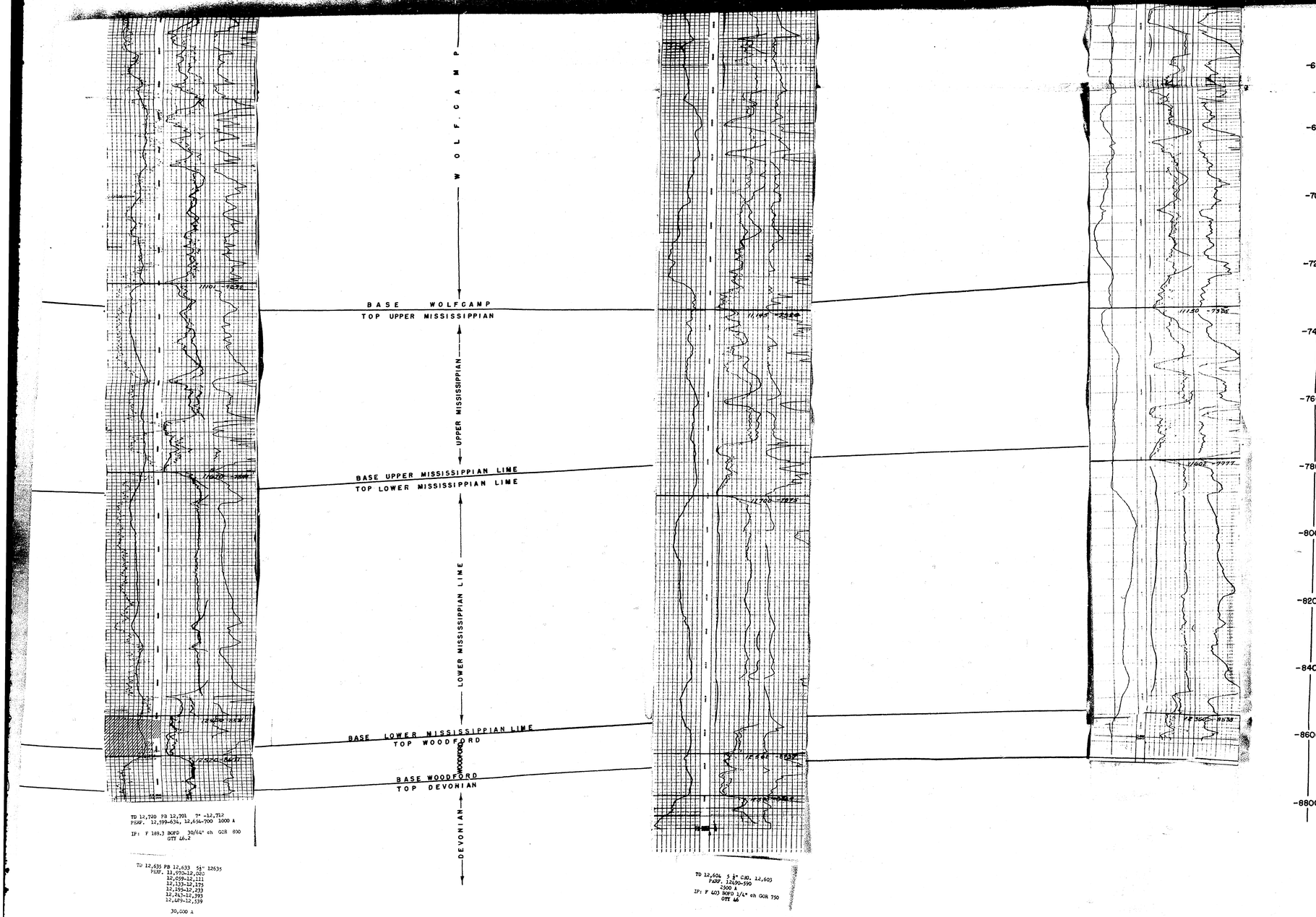
-7000'
-7200'
-7400'
-7600'
-7800'
-8000'
-8200'
-8400'
-8600'
-8800'
BASE WOLFCAMP
TOP UPPER MISSISSIPPIAN
BASE UPPER MISSISSIPPIAN
TOP LOWER MISSISSIPPIAN
BASE LOWER MISSISSIPPIAN
TOP WOODFORD
BASE WOODFORD
TOP DEVONIAN
TD 12,647 PB 12645 5½" 12647
PERF. 12495-530
12542-589
12603-641
14,000
IP: F 515 BOPD
GTY
(WOLFCAMP TWIN - MAGNOLIA #4 MAXWELL)
TD 9540 PB 9430 5½" 9540
PERF. 9379-9408, 9488-9508
(-5547 to -5676)
Completed 8-17-53
1500 A
IP: F 297 BOPD 3/4" ch GOR 242 GTY 43.
IP: F 405 BOPD
GTY
(WOLFCAMP TWIN - MAXWELL)
TD 9498 PB 9496
PERF. 9384-9398
(-5539 to -
29,500
IP: F 211 BOPD ¼" 170 BOPD)
TD 12,804 PB 12,724
5½" 12,799
PERF. 12,564-630, 12,660-710
IP: F 1344 BOPD ½" ch GOR 1236
TD 12,720 PB 12,701 7" -12,712
PERF. 12,599-634, 12,654-700 1000 A
IP: F 189.3 BOPD 30/64" ch GOR 800
GTY 46.2
TD 12,635 PB 12,633 5½" 12635
PERF. 11,970-12,020
12,059-12,111
12,133-12,175
12,195-12,233
12,243-12,393
12,489-12,539
30,000 A
IP: F 710 BOPD 20/64" ch GOR 815
GTY 45



TD 12,720 PB 12,701 7" -12,712
PERF. 12,599-634, 12,654-700 1000 A

IP: F 189.3 BOPD 30/64" ch GOR 800
GTT 46.2

TD 12,635 PB 12,633 5½" 12635
PERF. 11,970-12,020
12,059-12,111
12,133-12,175
12,195-12,233
12,241-12,293
12,489-12,539

30,000 A

IP: F 710 BOPD 20/64" ch GOR 815
GTT 45

TD 12,604 5½" CSG. 12,603
PERF. 12490-590
2500 A
IP: F 403 BOPD 1/4" ch GOR 750
GTT 46

NORTH-SOUTH CROSS SECTION A & A'

SEC. 27 & 34 T 14 S R 37 E

DENTON POOL

LEA COUNTY, NEW MEXICO

SCALE:

HORIZONTAL 1" = 200'

VERTICAL 1" = 200'

OCTOBER 12, 1953

PHILLIPS PETROLEUM COMPANY

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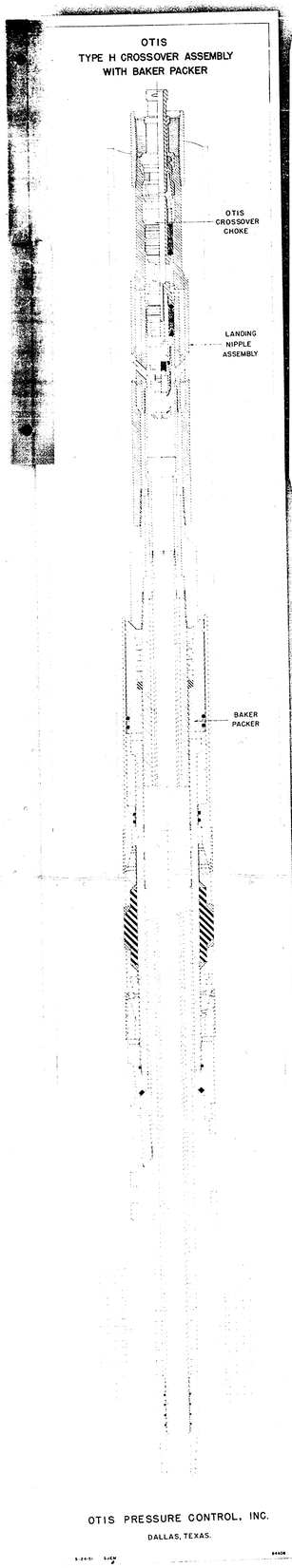


P. O. BOX 664 — DIAL 3-6574

WILLARD F. KITTS
ATTORNEY AT LAW
108 EAST PALACE AVENUE
SANTA FE, NEW MEXICO

August 7, 1954

Mr. Ross Nadole
Attorney at Law
Magnolia Petroleum Co.
Magnolia Building
Dallas, Texas

RE: Phillips Petroleum Co.
v. Corporation Commission

Dear Ross:

Enclosed is a copy of the record before the Commission in this case. Would you kindly return it to the Commission within ten days of its receipt?

Best regards,

Bill Kitts

W. F. Kitts

WFK:BP

Enc.

VOLUME II

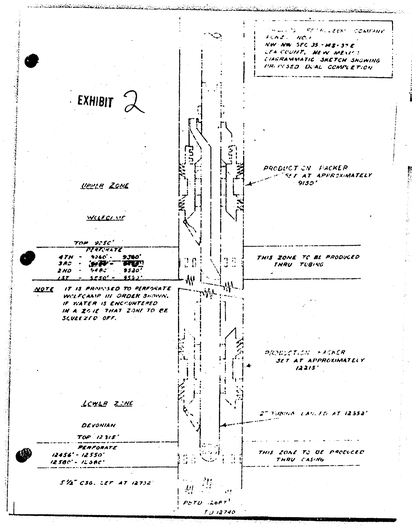
TABLE OF CONTENTS

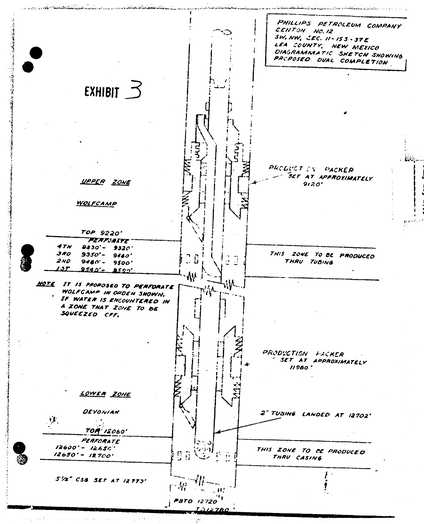
A. Exhibits at July 14, 1953 hearing

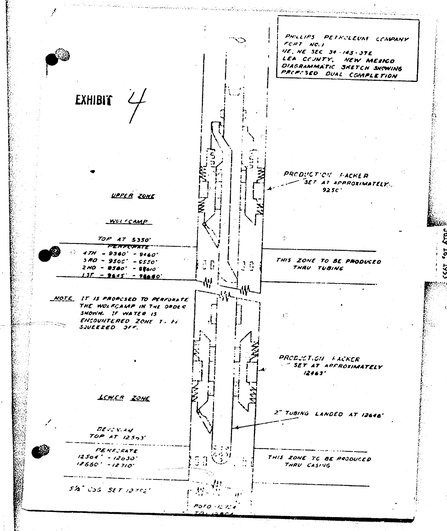
1. Phillips' Exhibit No. 1 - Microlog of Fort No. 1 Well
2. Phillips' Exhibit No. 2 - Diagrammatic sketch showing proposed dual completion of Fenno No. 1 Well
3. Phillips' Exhibit No. 3 - Diagrammatic sketch showing proposed dual completion of Denton No. 13 Well
4. Phillips' Exhibit No. 4 - Diagrammatic sketch showing proposed dual completion of Fort No. 1 Well
5. Phillips' Exhibit No. 5 - Diagrammatic sketch showing proposed dual completion of Denton No. 13 Well
6. Phillips' Exhibit No. 6 - Cross-section view of dual completion equipment
7. Phillips' Exhibit No. 7 - Cross-section view of Otis Type H cross-over assembly with Baker packer

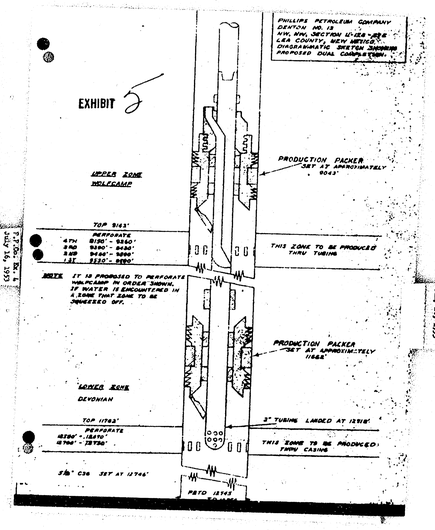
B. Exhibits at October 15, 1953 re-hearing

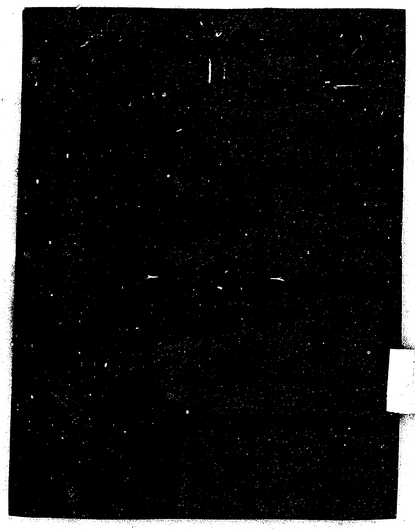
1. Phillips' Exhibit No. 1 - Map of the Denton Pool
2. Phillips' Exhibit No. 2 - North-South Cross-section through Points A - A' as located on Exhibit No. 1
3. Phillips' Exhibit No. 3 - North-South Cross-section through Points B - B' as located on Exhibit No. 1
4. Phillips' Exhibit No. 4 - East-West Cross-section through Points C - C' as located on Exhibit No. 1
5. Phillips' Exhibit No. 5 - East-West Cross-section MC - MC' (Microlog of Wolfcamp Formation)
6. Phillips' Exhibit No. 6 - List of dually completed oil wells operated by Phillips Petroleum Company as of July 1, 1953
7. Scally Exhibit No. 1 - Investment figures for six Scally Wolfcamp wells
8. Magnolia Exhibit No. 1 - accumulated production figures of Wolfcamp wells in the Denton Pool

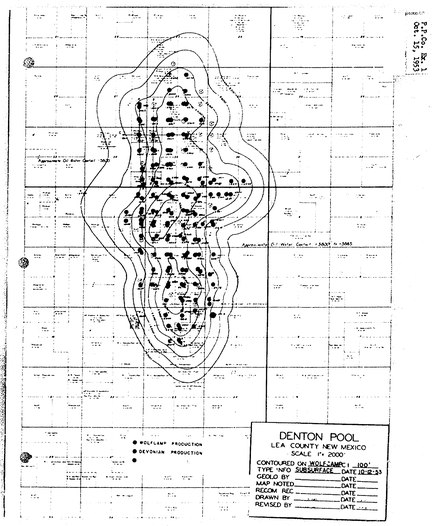












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OTIS
CROSSOVER ASSEMBLY
BAKER PACKER

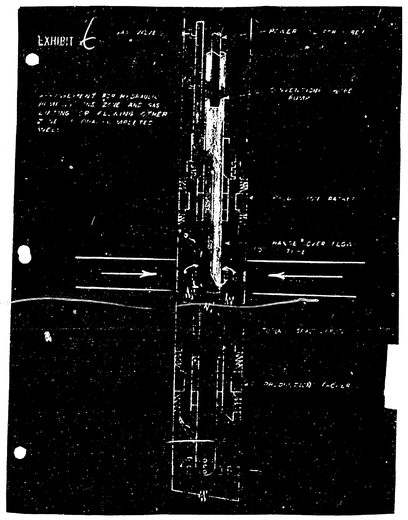
EXHIBIT 2

EXHIBIT 3

EXHIBIT

EXHIBIT

EXHIBIT 6



SCHLUMBERGER WELL SURVEYING CORPORATION

COMPANY PHILLIPS PETR.
WELL FORT NO. 1
FIELD DENTON
LOCATION SEC. 34-14S-37E
COUNTY LEA
STATE NEW MEXICO

Location of Well
660' fr. N&E/L
Sec. 34-14S-37E

ES-GR-ML
Elevation: D.F. 3823'
or G.L.

FILING No.

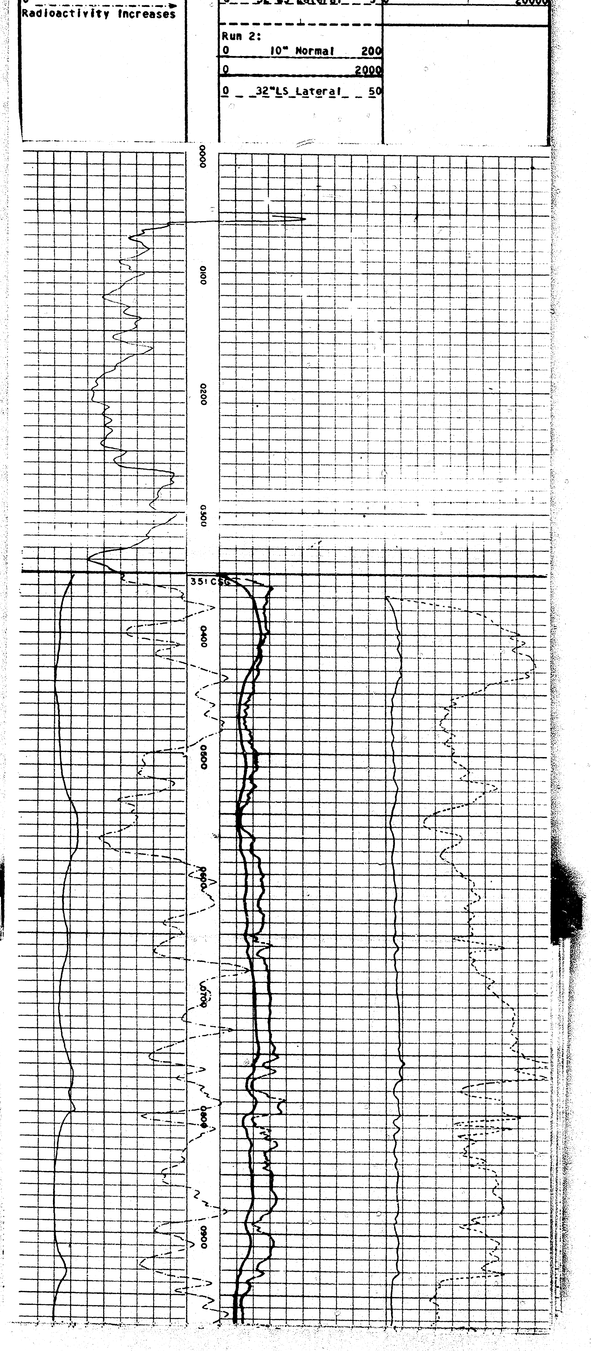
COMPANY Phillips Petr. Co.
WELL Fort No. 1
FIELD or LOCATION Denton

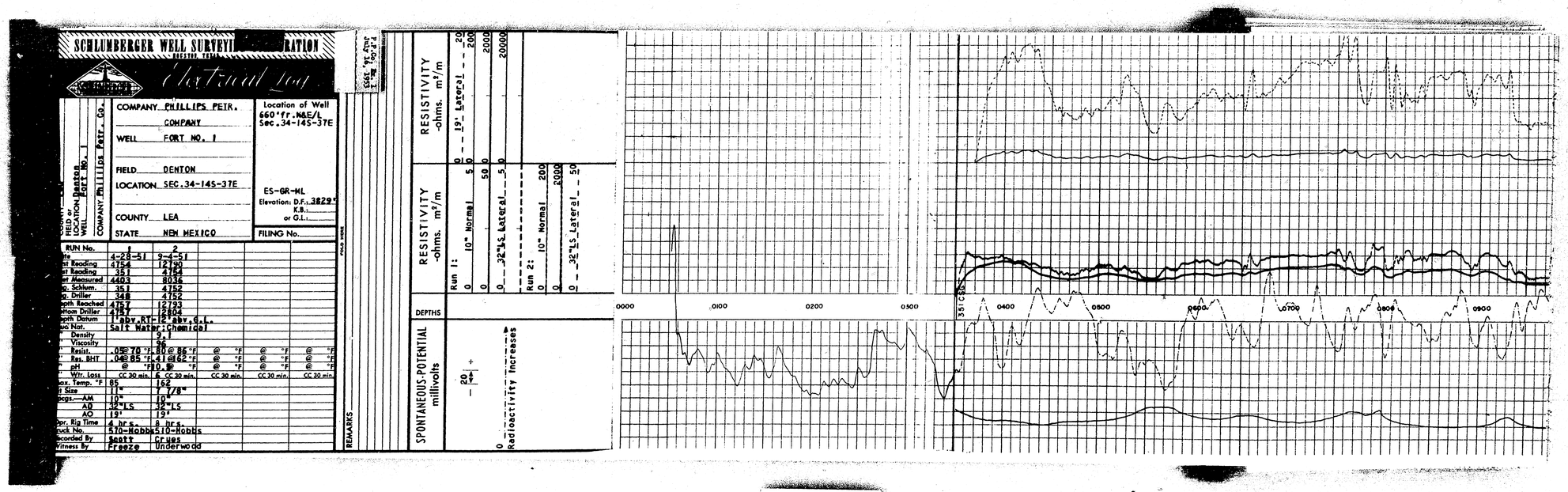
Run No.			
Date	1-23-51	2-4-51	
Type Log	Micro	Gamma Ray	
Depth—Driller	4156	4156	
Depth—Logger	4153	4156	
Btm. Log Interval	4003	3936	
Top Log Interval	351	4152	
Casing—Driller	4151	4151	
Casing—Logger	4151	4151	
Bit Size	7 7/8"	7 7/8"	
Type Fluid in Hole	Low Solids	Low Solids	
Density	9.2	9.2	
Viscosity	41	42	
Fluid Loss	8.6 cc	8.6 cc	
Source of Sample	Flowline	Flowline	
Rm @ Meas. Temp.	.08@85°F	.08@85°F	@ °F
Rmf @ Meas. Temp.	.07@85°F	.07@85°F	@ °F
Rmc @ Meas. Temp.	.10@85°F	.10@85°F	@ °F
Source: Rmf, Rmc	Rmf Rmc	Rmf Rmc	
Rm @ BHT	.08@152°F	.08@152°F	@ °F
Time Since Circ.	6 hrs.	6 hrs.	
Max. Rec. Temp.	152°F	152°F	°F
Equip. Location	Pampa	Pampa	
Recorded By	Gish	Gish	
Witnessed By	Mr. Wall	Mr. Wall	

REMARKS

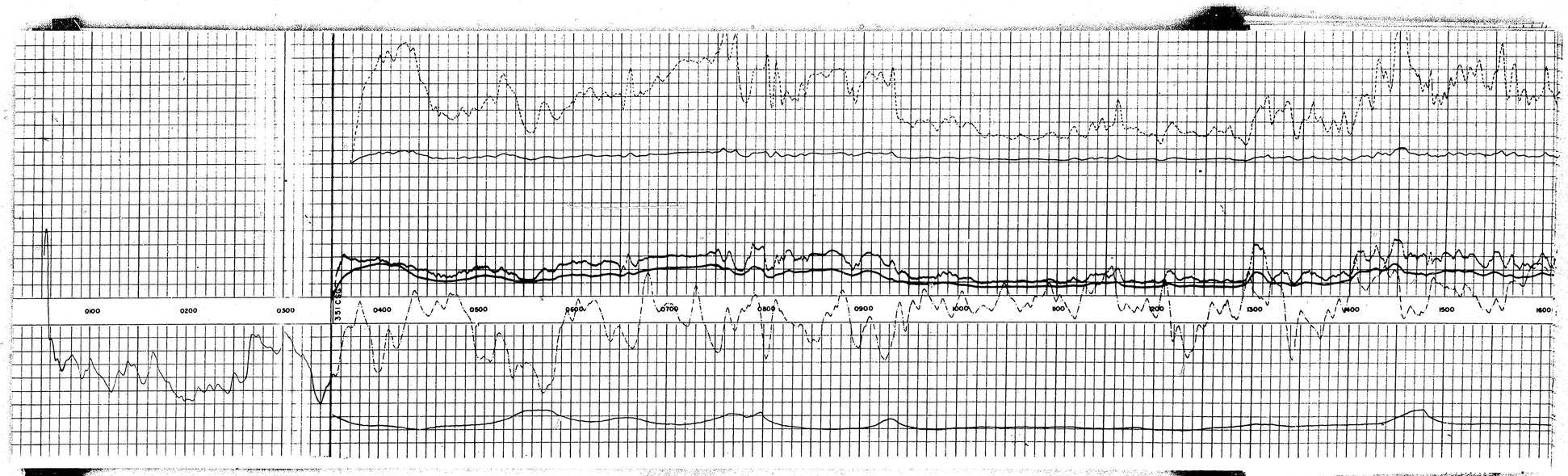
P.P.00... M-1
July 16, 1953

SPONTANEOUS-POTENTIAL millivolts	DEPTHS	RESISTIVITY -ohms. m²/m	RESISTIVITY -ohms. m²/m
− 20 +		Run 1:	
		0 10" Normal 5	0 19' Lateral 20
		0 50	0 200
0		0 32"LS Lateral 5	0 2000
Radioactivity Increases			0 20000
		Run 2:	
		0 10" Normal 200	
		0 2000	
		0 32"LS Lateral 50	




SCHLUMBERGER WELL SURVEYI RATION
Electrical Log
COMPANY PHILLIPS PETR. COMPANY
WELL FORT NO. 1
FIELD DENTON
LOCATION SEC.34-14S-37E
COUNTY LEA
STATE NEW MEXICO
Location of Well 660'fr.N&E/L Sec.34-14S-37E
ES-GR-ML
Elevation: D.F.: 3829'
K.B.:
or G.L.:
FILING No.
FIELD or LOCATION Denton
WELL Fort No. 1
COMPANY Phillips Petr. Co.
RUN No. 1 2
4-28-51 9-4-51
4754 12790
351 4754
4403 8036
351 4752
348 4752
4757 12793
4757 12804
1'abv.RT-12'abv.G.L.
Salt Water:Chemical
9.1
96
.05@70 °F .80@86 °F @ °F @ °F @ °F
.04@85 °F .41@162 °F @ °F @ °F @ °F
@ °F 10.5 °F @ °F @ °F @ °F
CC 30 min. 6 CC 30 min. CC 30 min. CC 30 min. CC 30 min.
85 162
11" 7 7/8"
10" 10"
32"LS 32"LS
19' 19'
4 hrs. 8 hrs.
510-Hobbs 510-Hobbs
Scott Crues
Freeze Underwood
REMARKS
SPONTANEOUS-POTENTIAL millivolts
DEPTHS
RESISTIVITY -ohms. m²/m
Run 1: 10" Normal 5 0 19' Lateral 20 0 200 0 2000 0 20000
32"LS Lateral 5 0 50 0
Run 2: 10" Normal 200 0 2000 0 32"LS Lateral 50 0
Radioactivity Increases
0000 0100 0200 0300 0400 0500 0600 0700 0800 0900
351 CSG

66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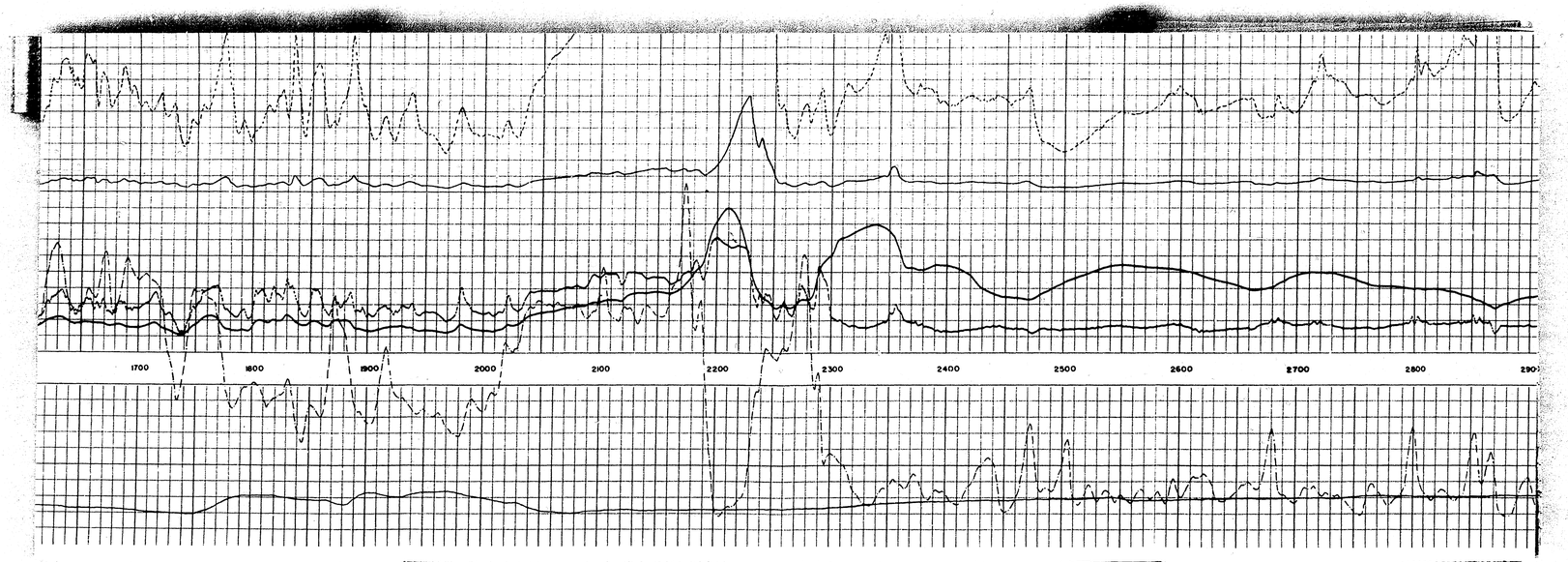
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3800
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4100
4200

27

3600
3700
3800
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C.S.G.
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4800
RUN NO.1
RUN NO.2

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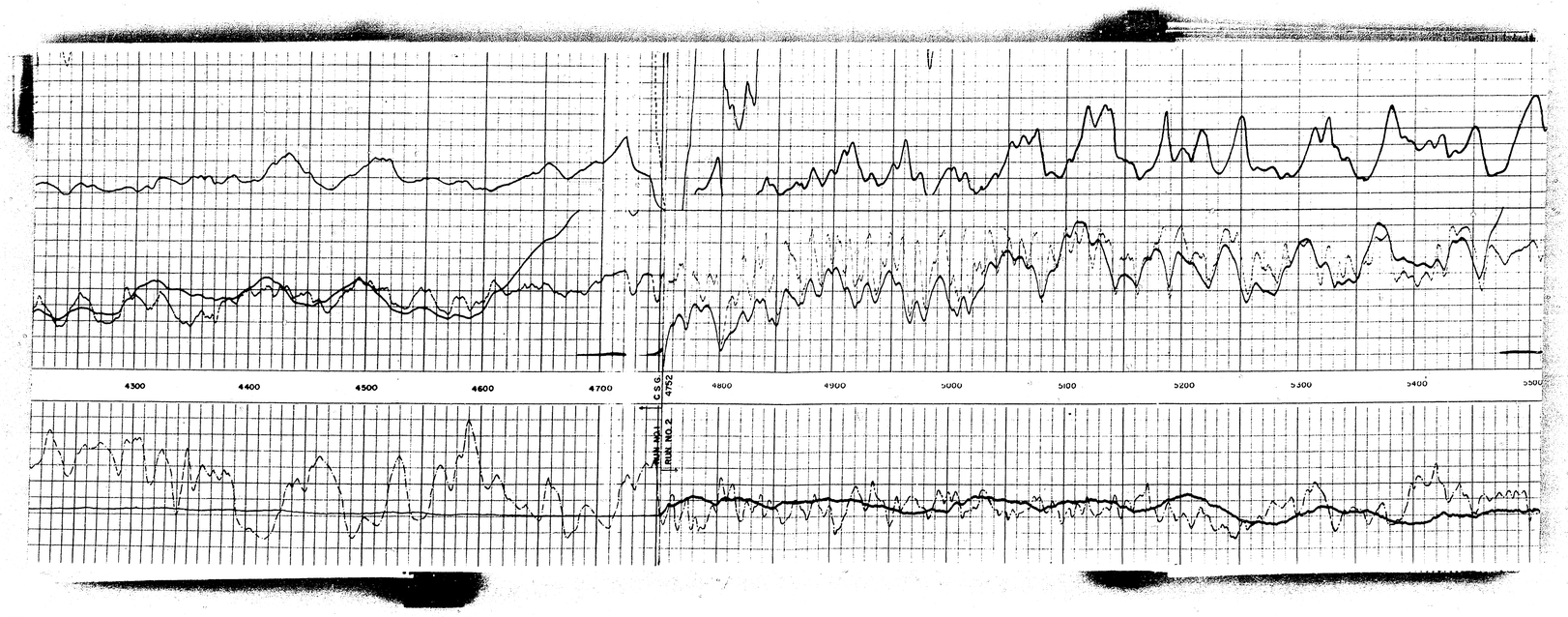
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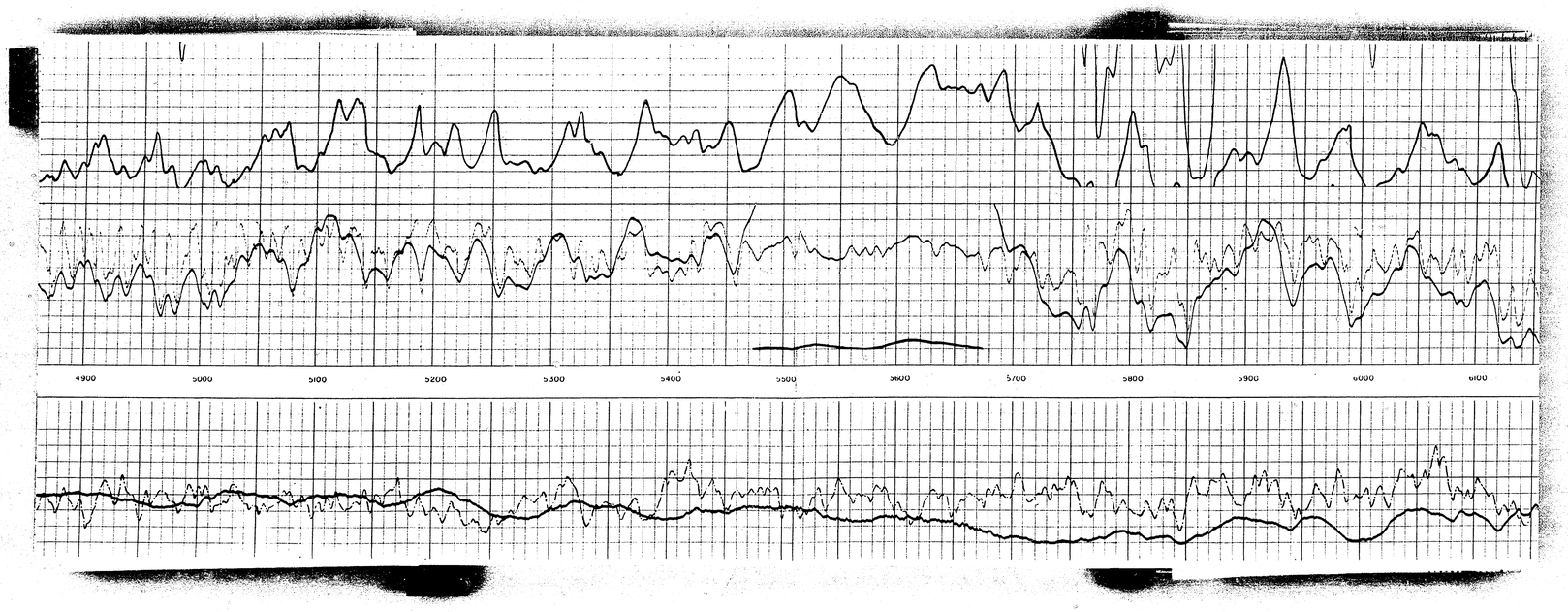
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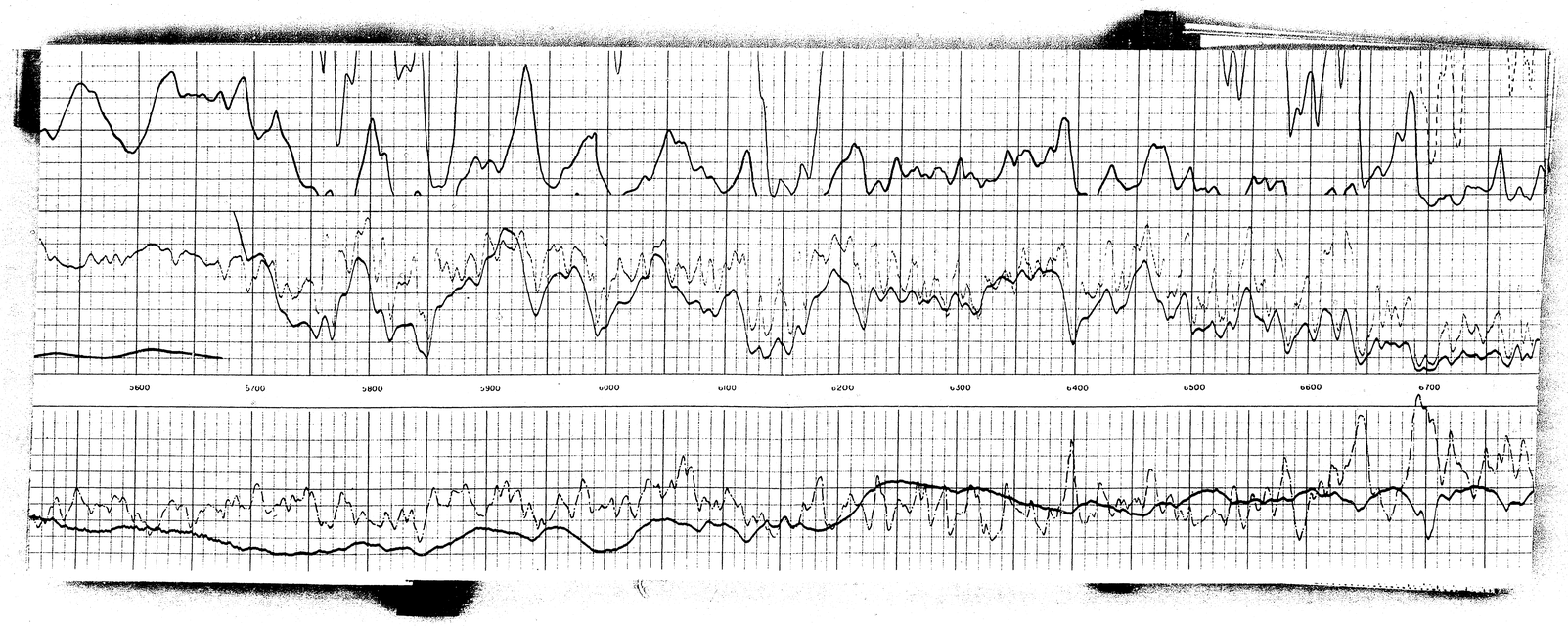
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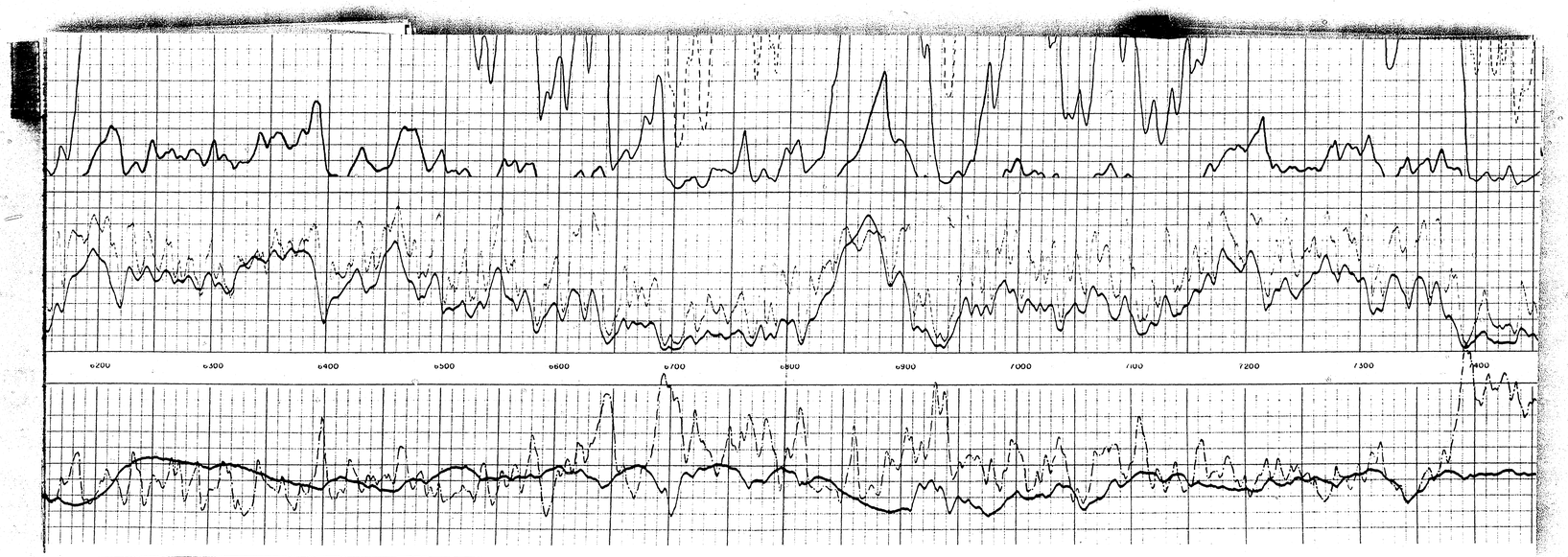
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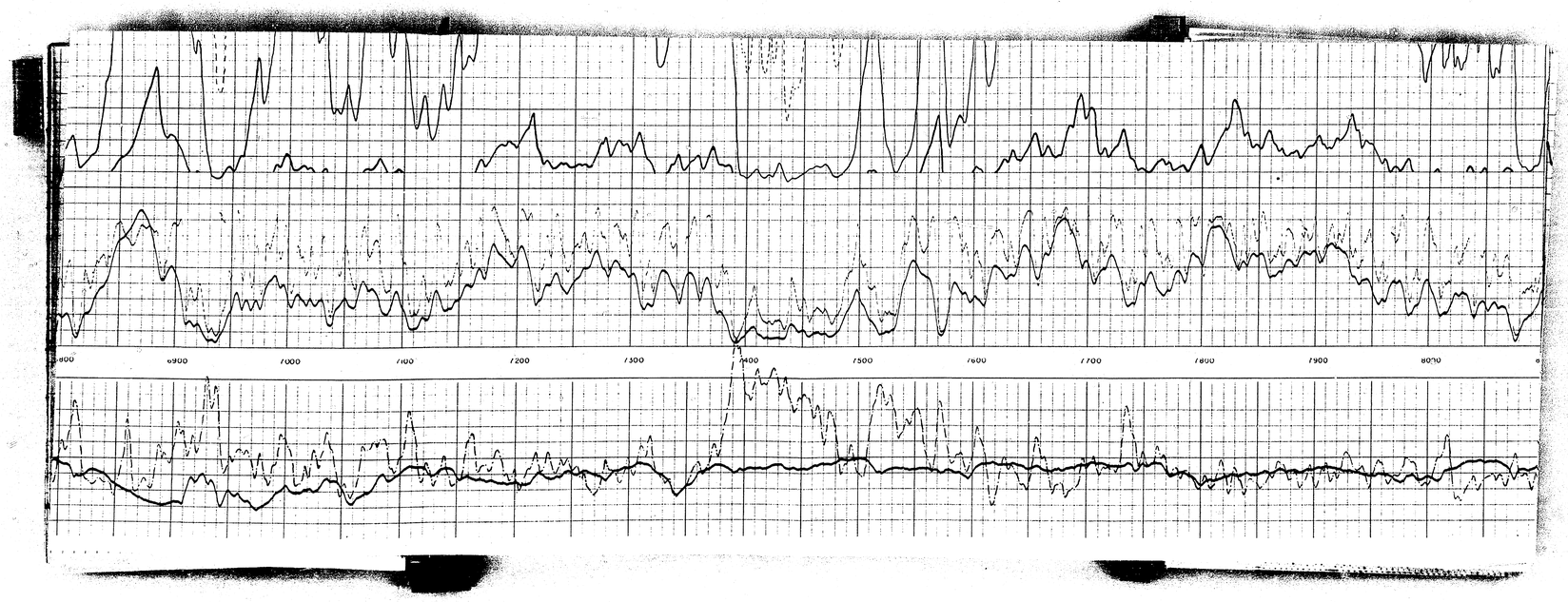
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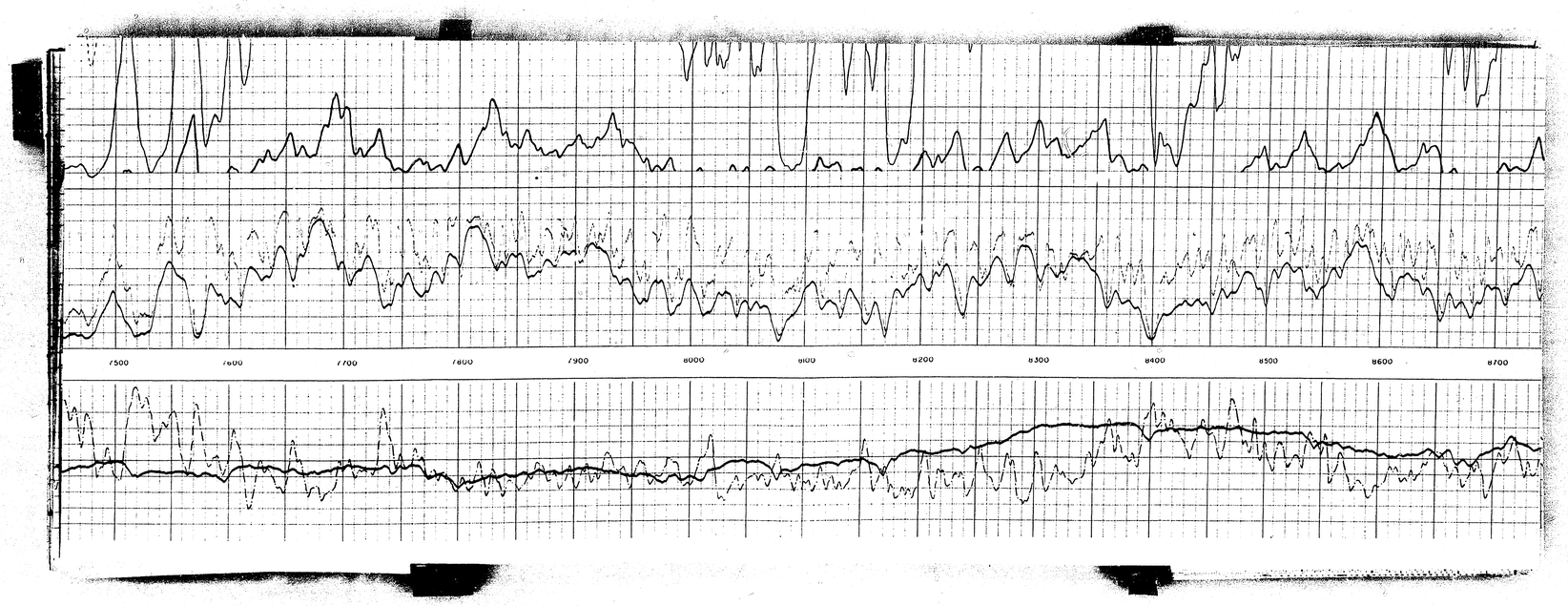
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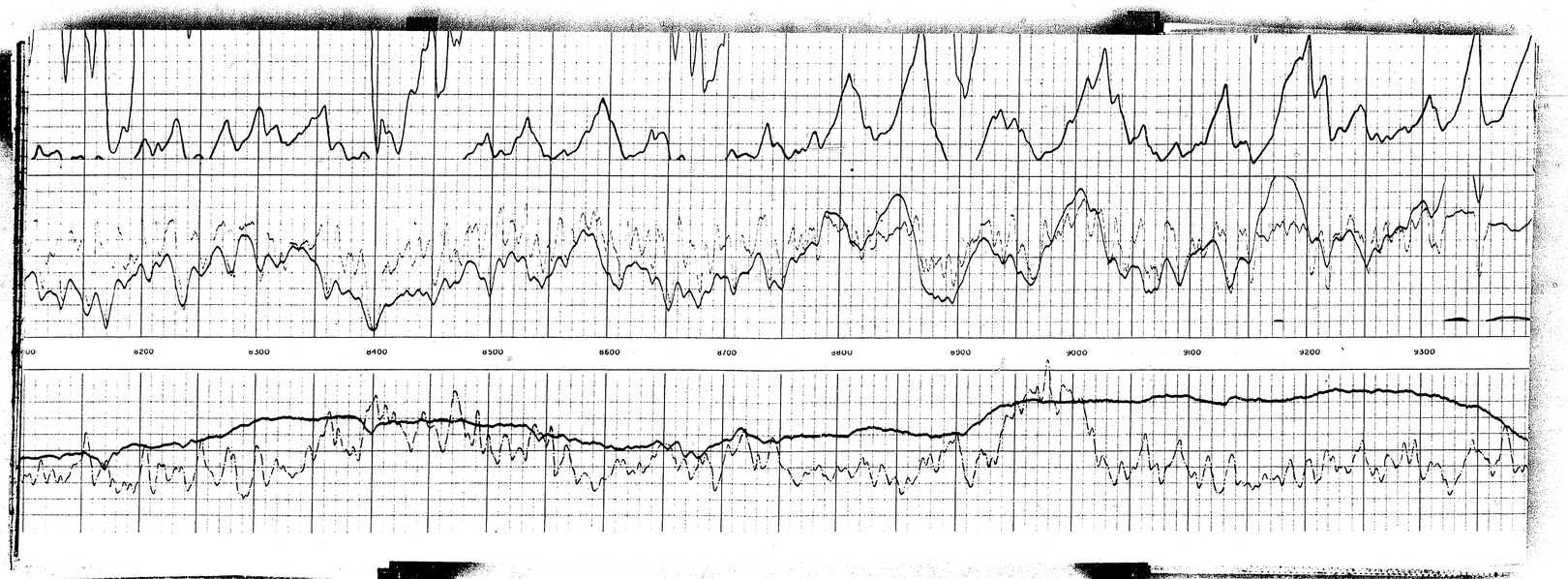
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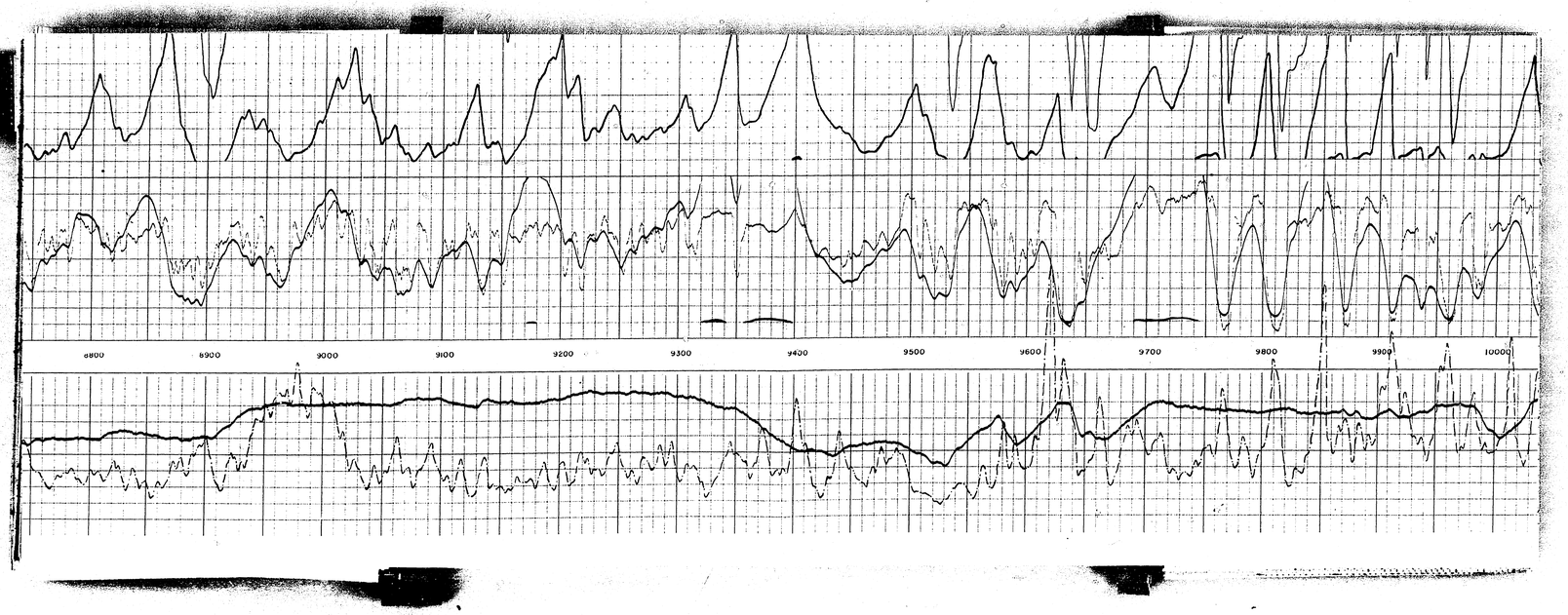
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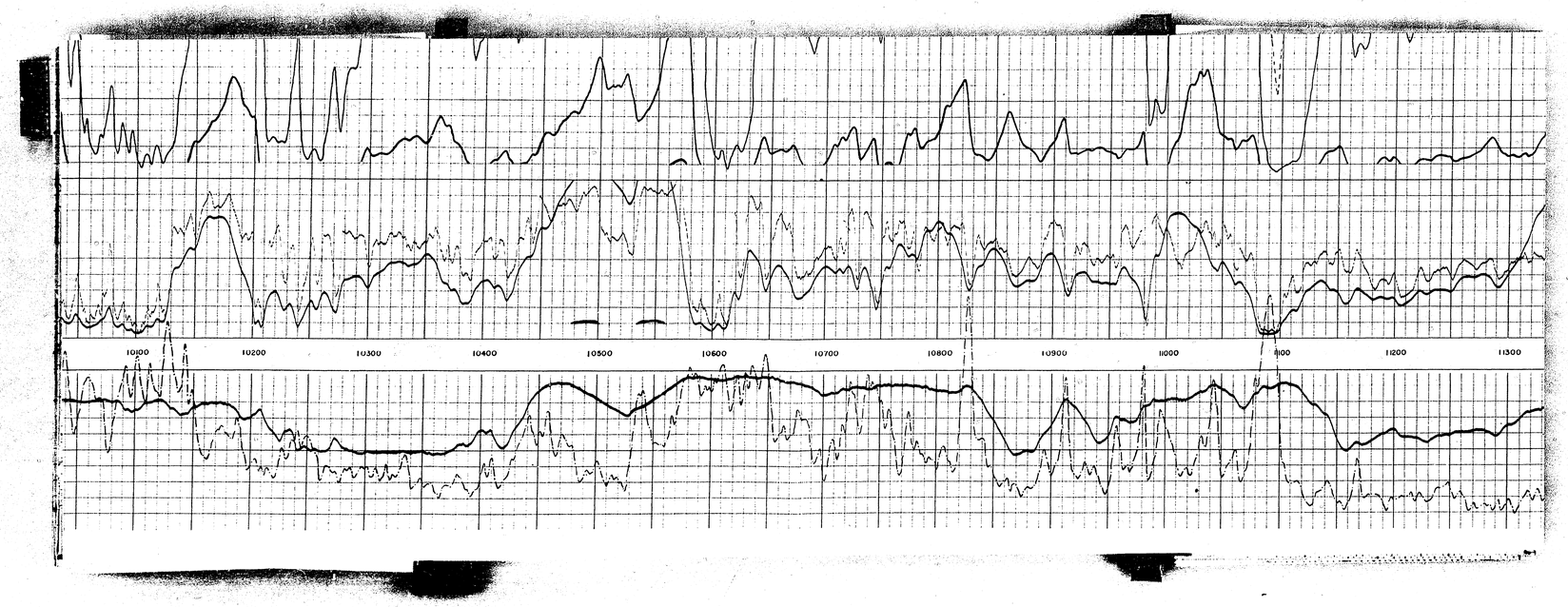
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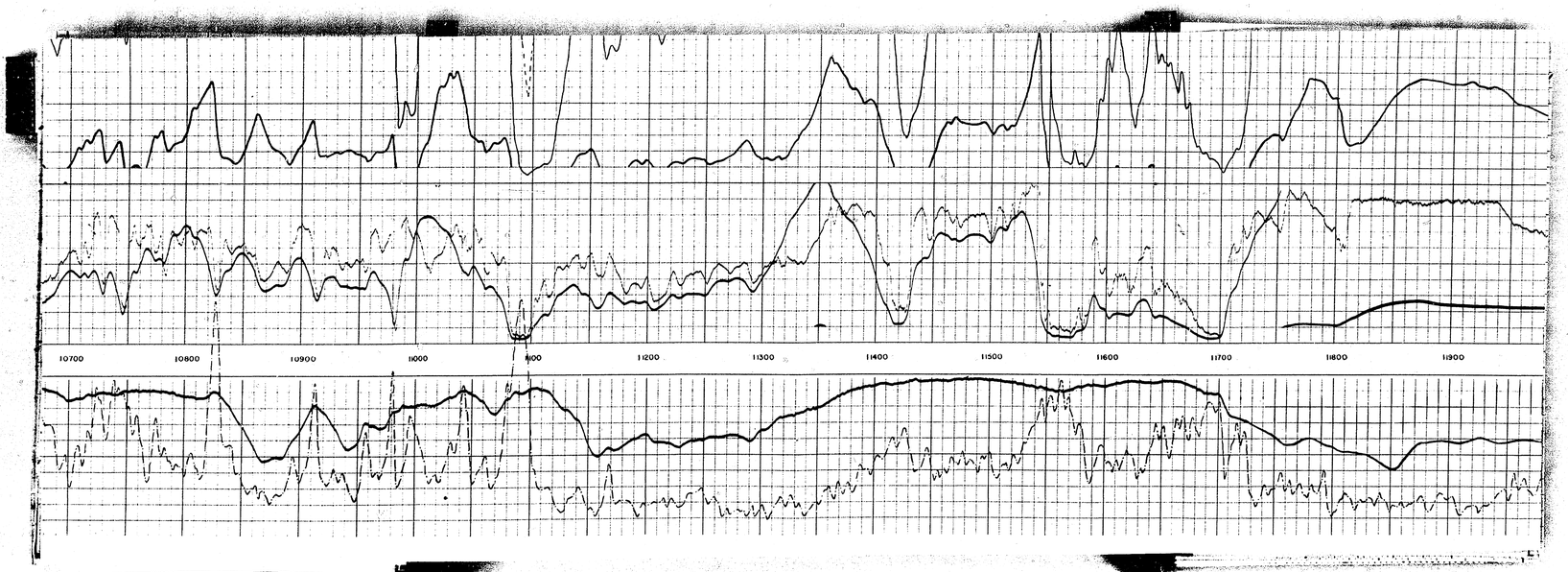
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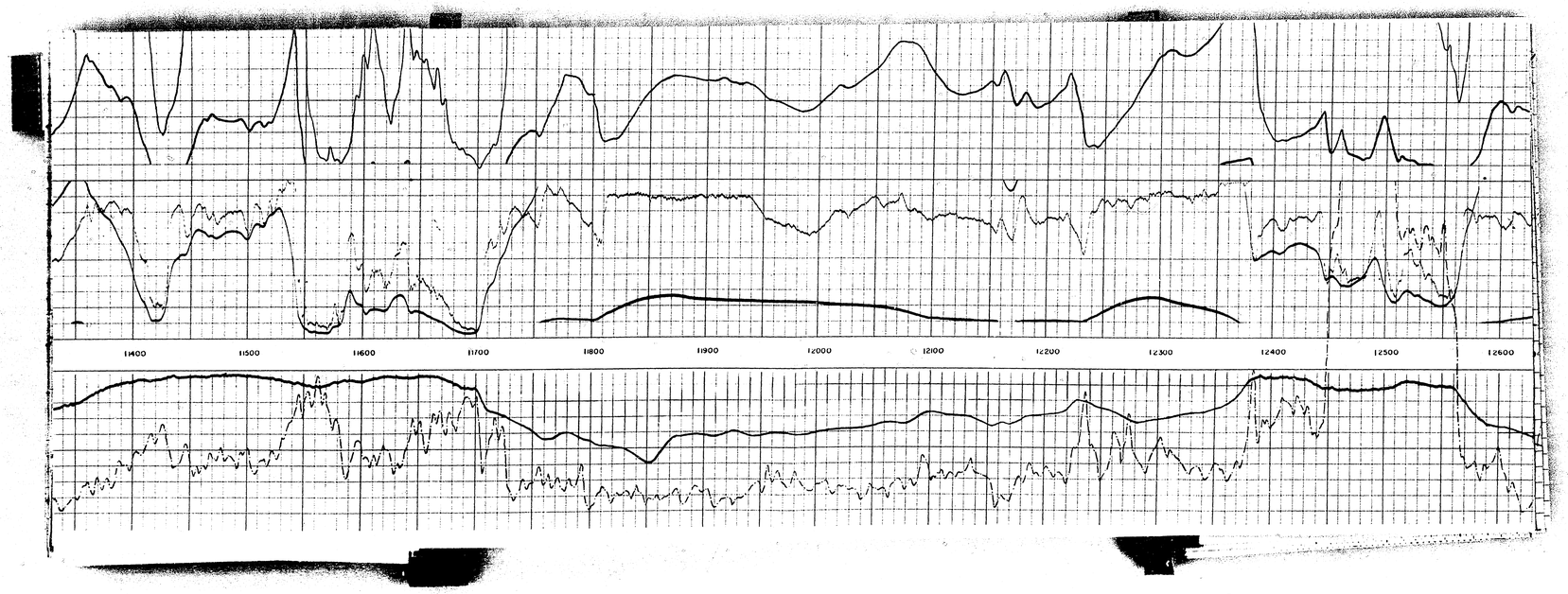
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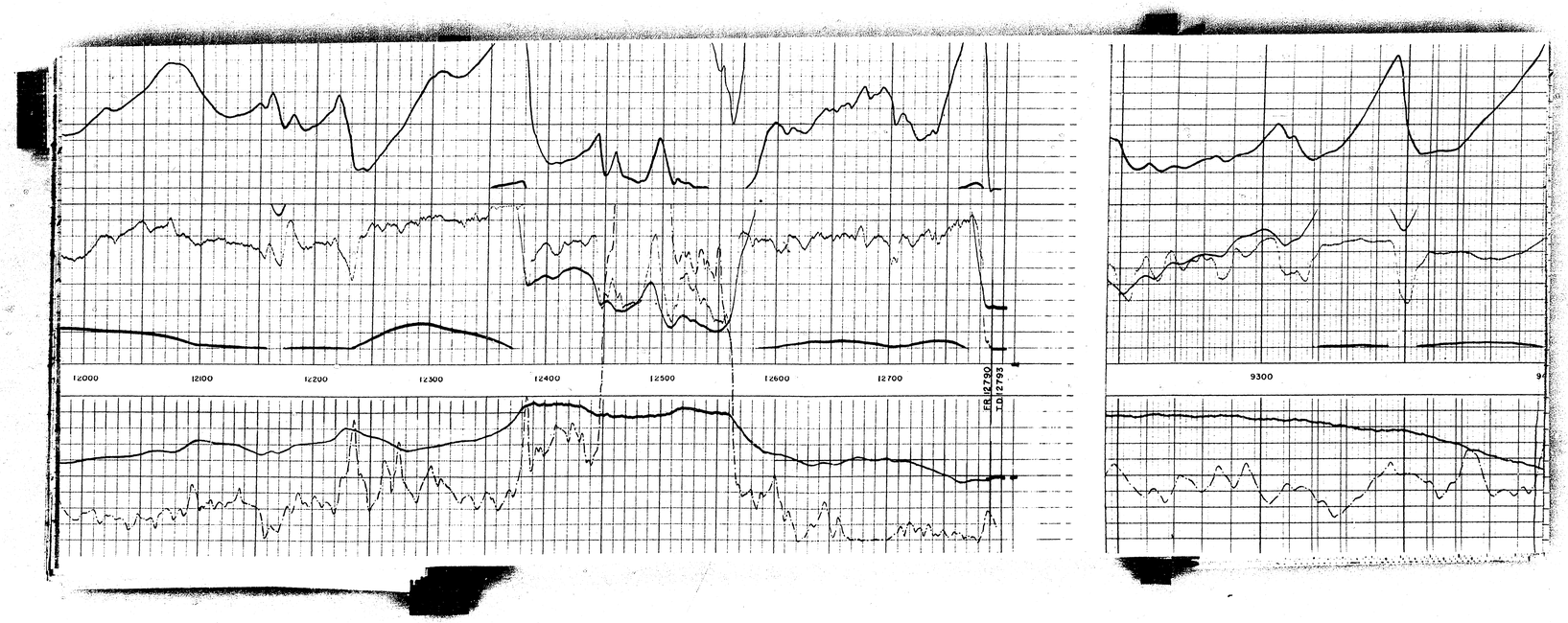
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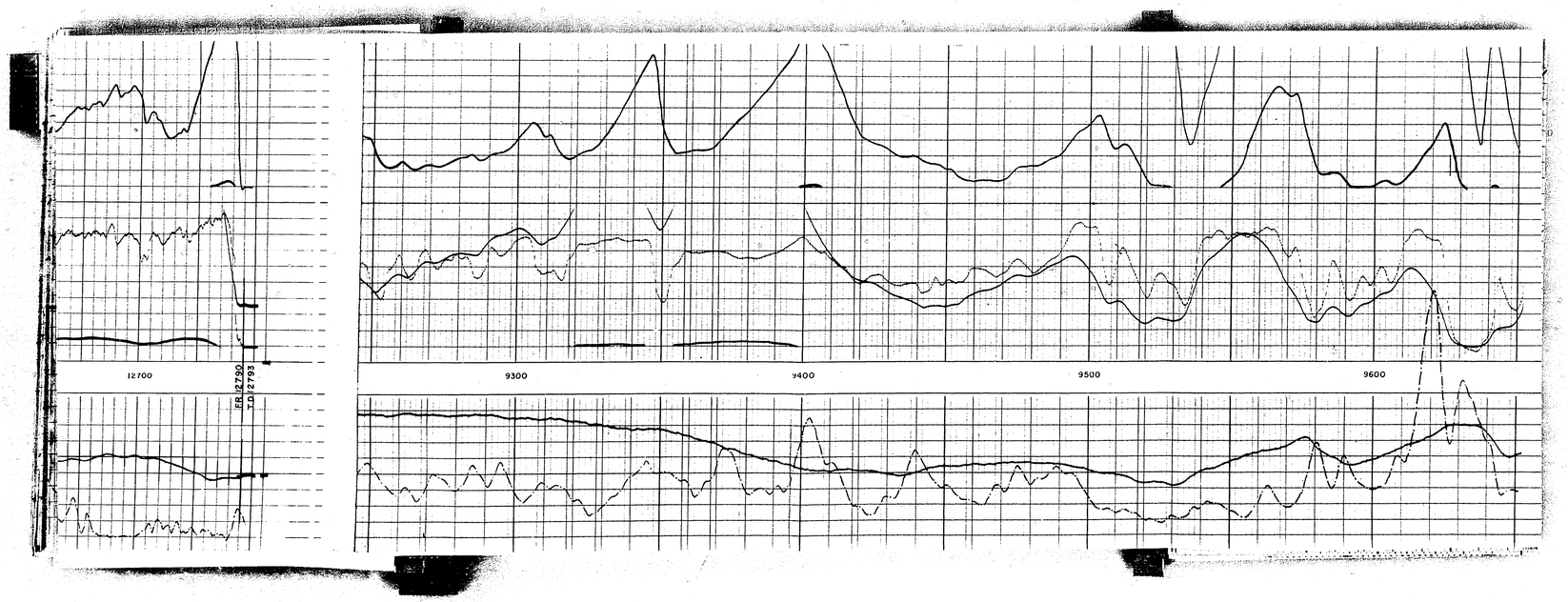
FR 12790
TO 12795
9300

41



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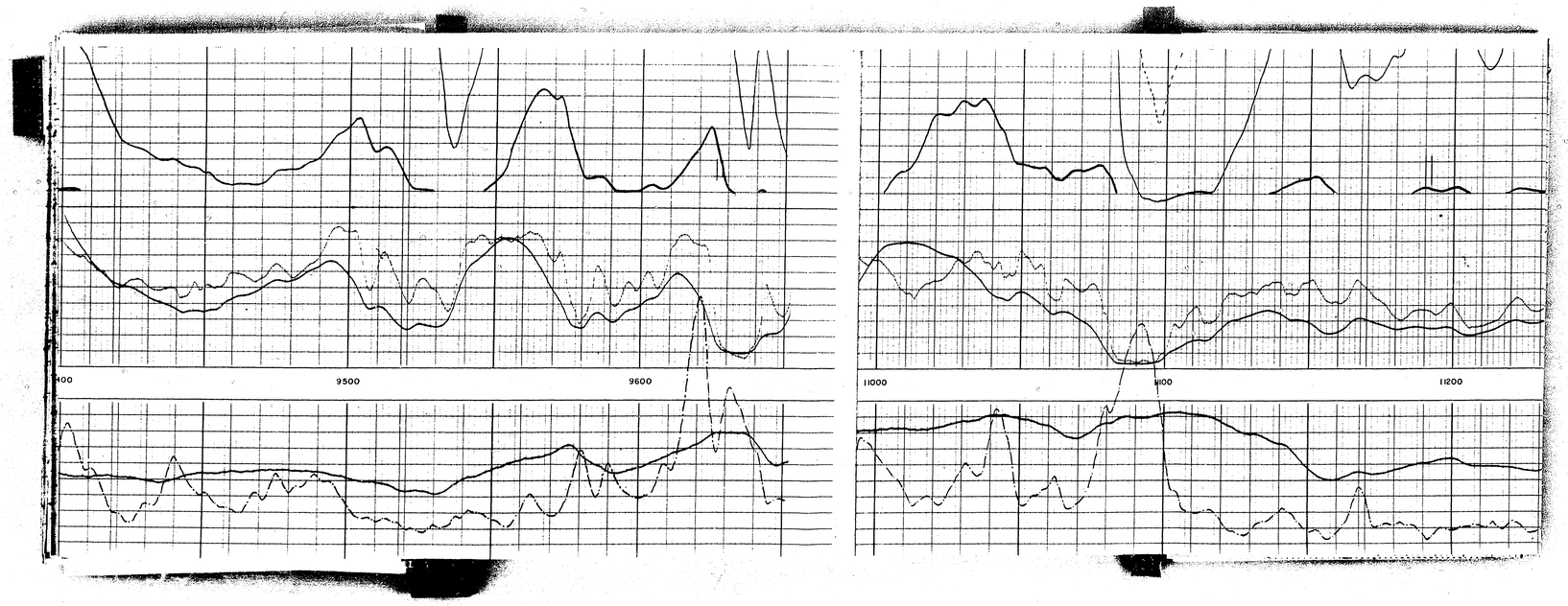
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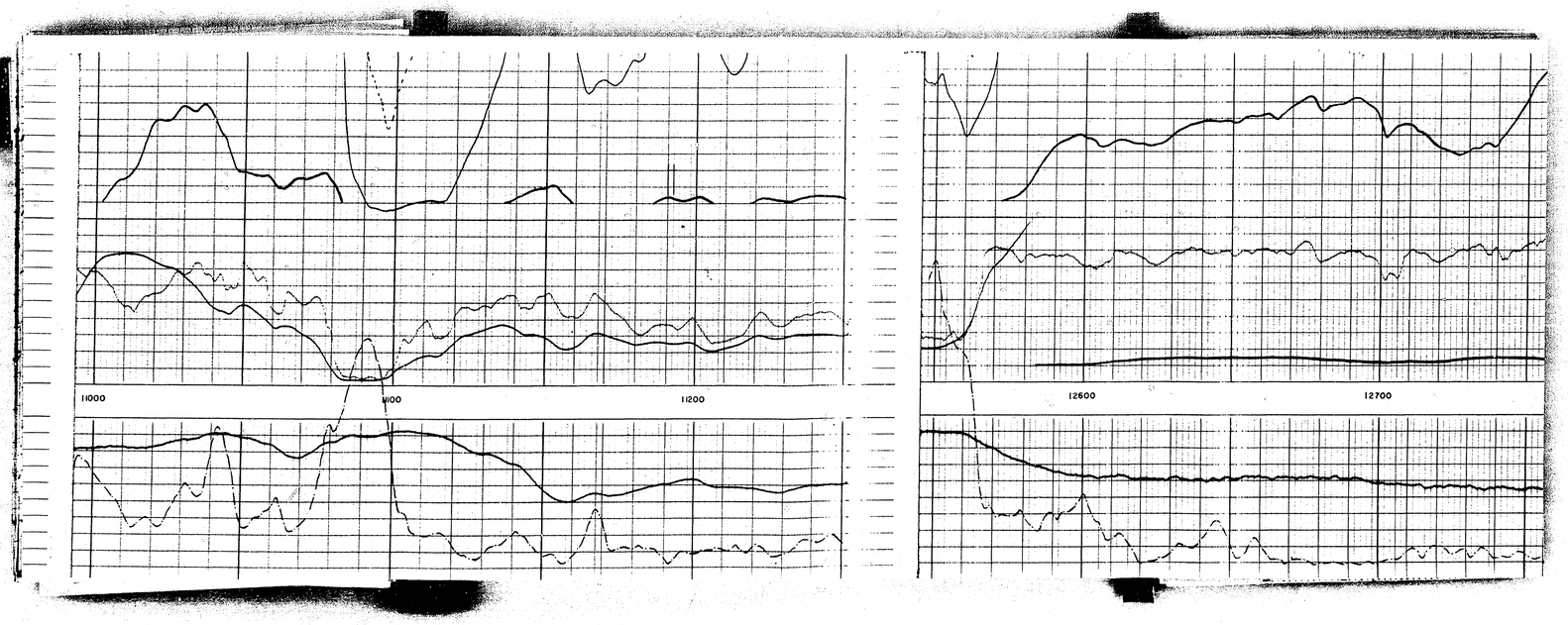
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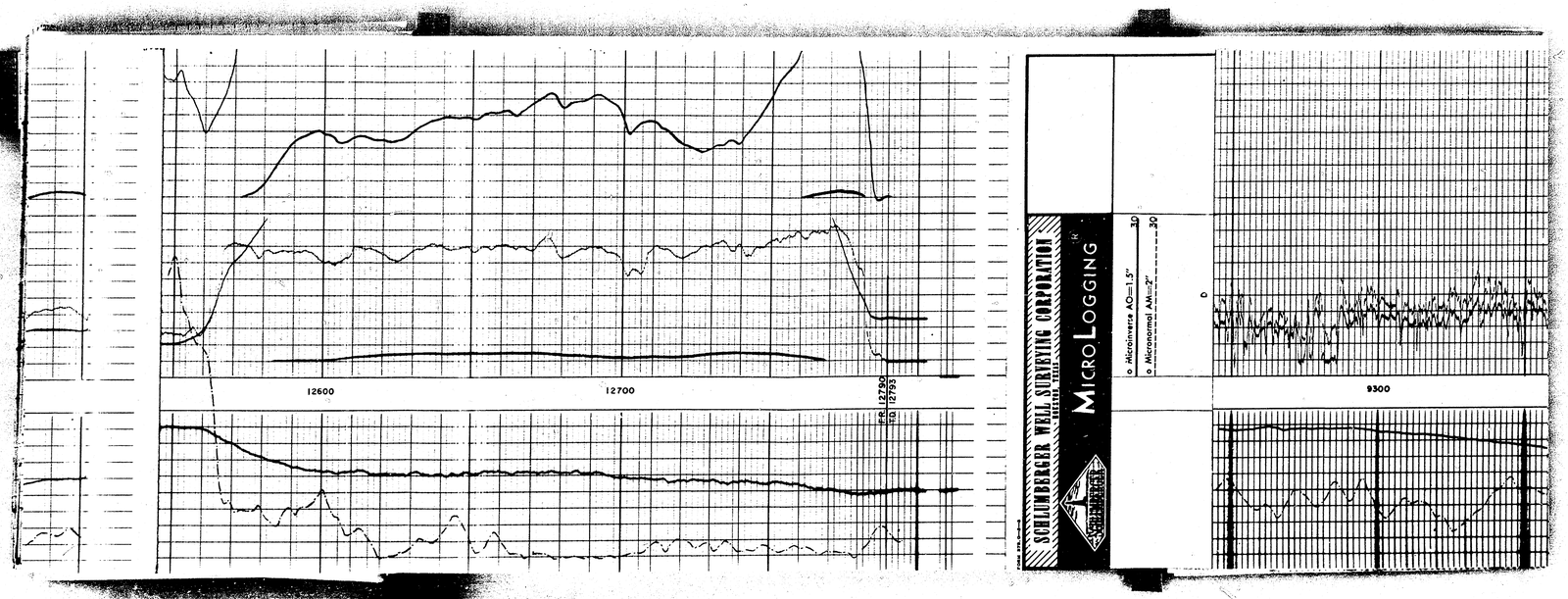
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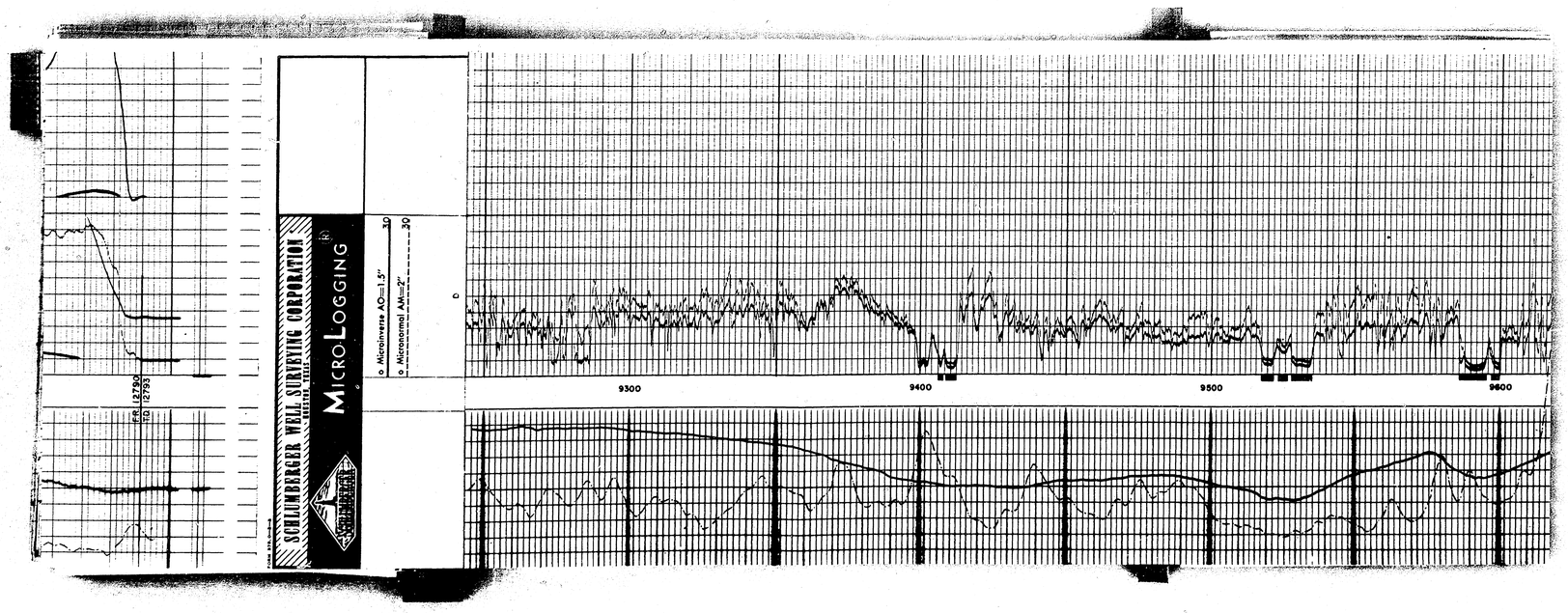
TO 12795
SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS
MICRO LOGGING
o Microinverse AO=1.5"
o Micronormal AM=2"
10
30
D
9300

45


SCHLUMBERGER WELL SURVEYING CORPORATION
MICROLOGGING
Microinverse AO=1.5"
Micronormal AM=2"
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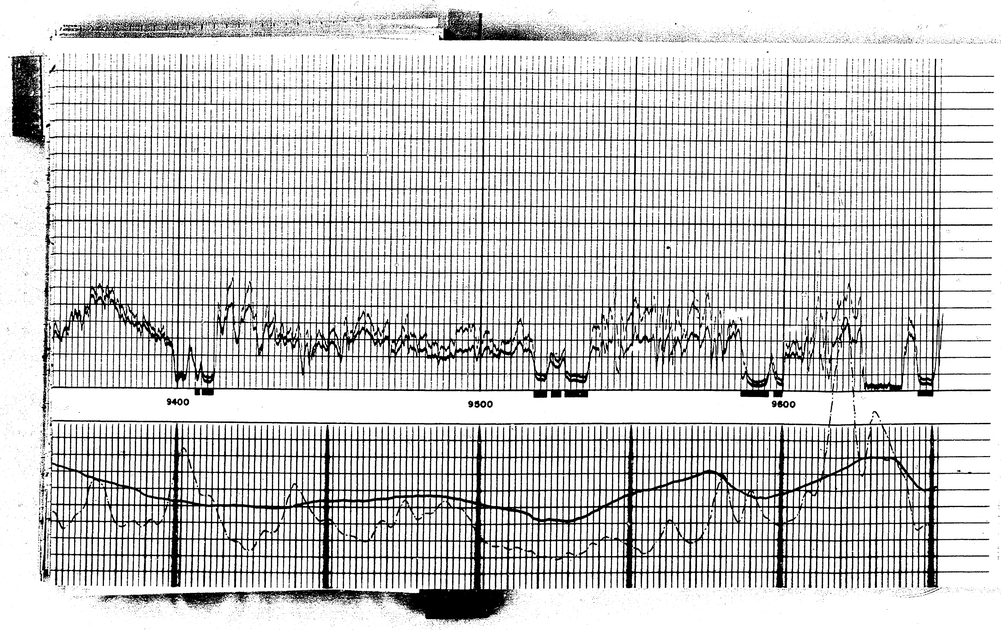
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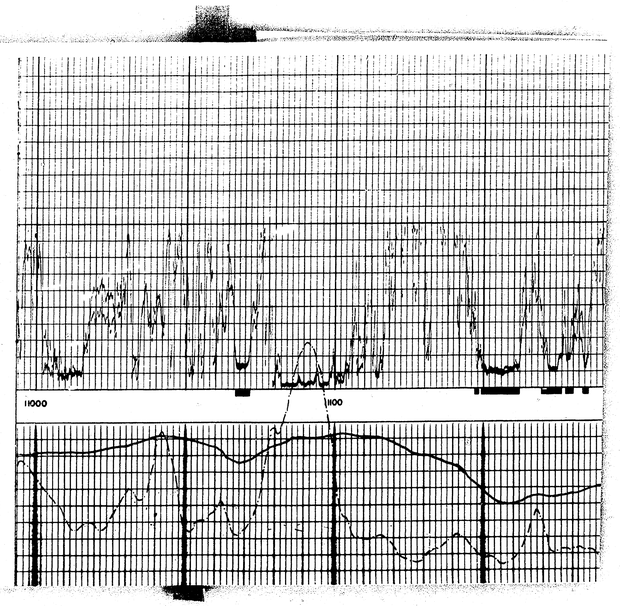
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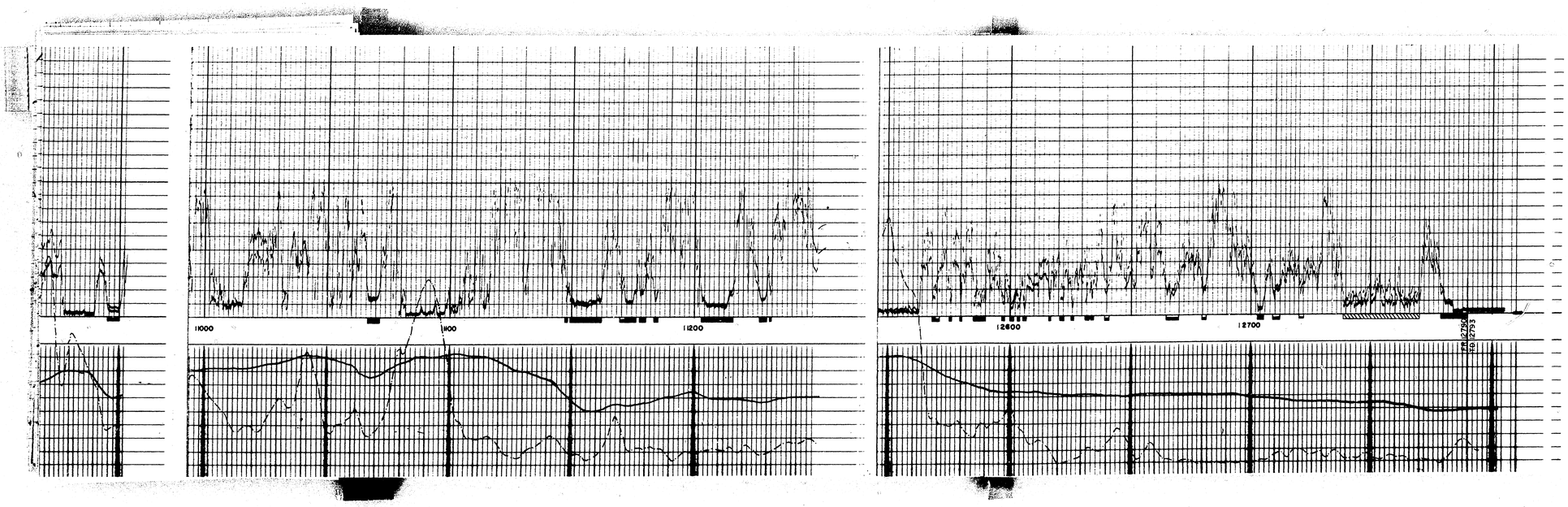
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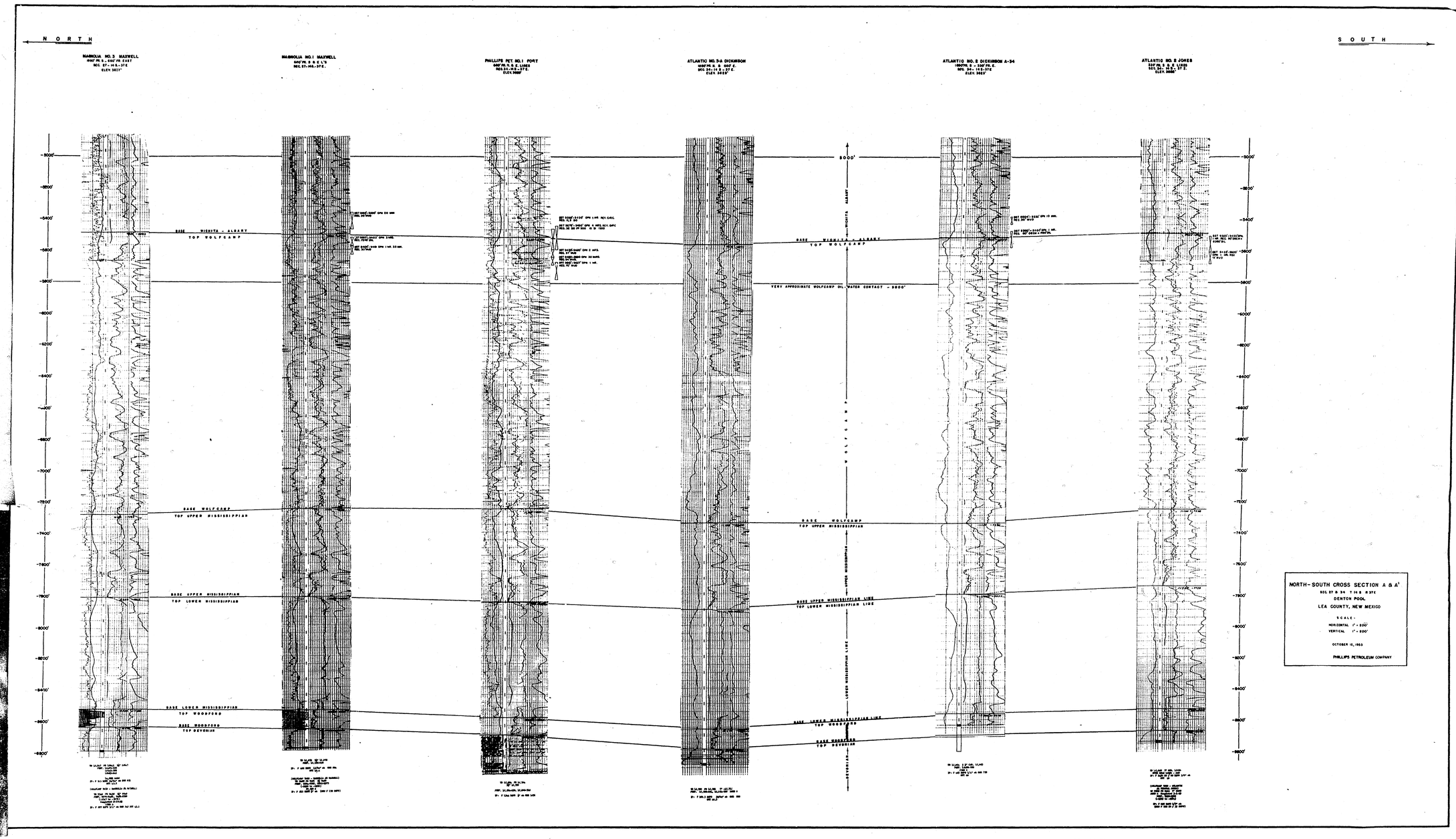
FR 12793


NORTH
SOUTH
MAGNOLIA NO. 3 MAXWELL
MAGNOLIA NO. 1 MAXWELL
PHILLIPS PET. NO. 1 FORT
ATLANTIC NO. 3-A DICKINSON
ATLANTIC NO. 2 DICKINSON A-34
ATLANTIC NO. 2 JONES
BASE WICHITA - ALBANY
TOP WOLFCAMP
BASE WOLFCAMP
TOP UPPER MISSISSIPPIAN
BASE UPPER MISSISSIPPIAN
TOP LOWER MISSISSIPPIAN
BASE LOWER MISSISSIPPIAN
TOP WOODFORD
BASE WOODFORD
TOP DEVONIAN
VERY APPROXIMATE WOLFCAMP OIL-WATER CONTACT - 5800'
5000'
-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
-6200'
-6400'
-6600'
-6800'
-7000'
-7200'
-7400'
-7600'
-7800'
-8000'
-8200'
-8400'
-8600'
-8800'
NORTH-SOUTH CROSS SECTION A & A'
SEC. 27 & 34 T 14 S R 37 E
DENTON POOL
LEA COUNTY, NEW MEXICO
SCALE -
HORIZONTAL 1" = 200'
VERTICAL 1" = 200'
OCTOBER 12, 1953
PHILLIPS PETROLEUM COMPANY

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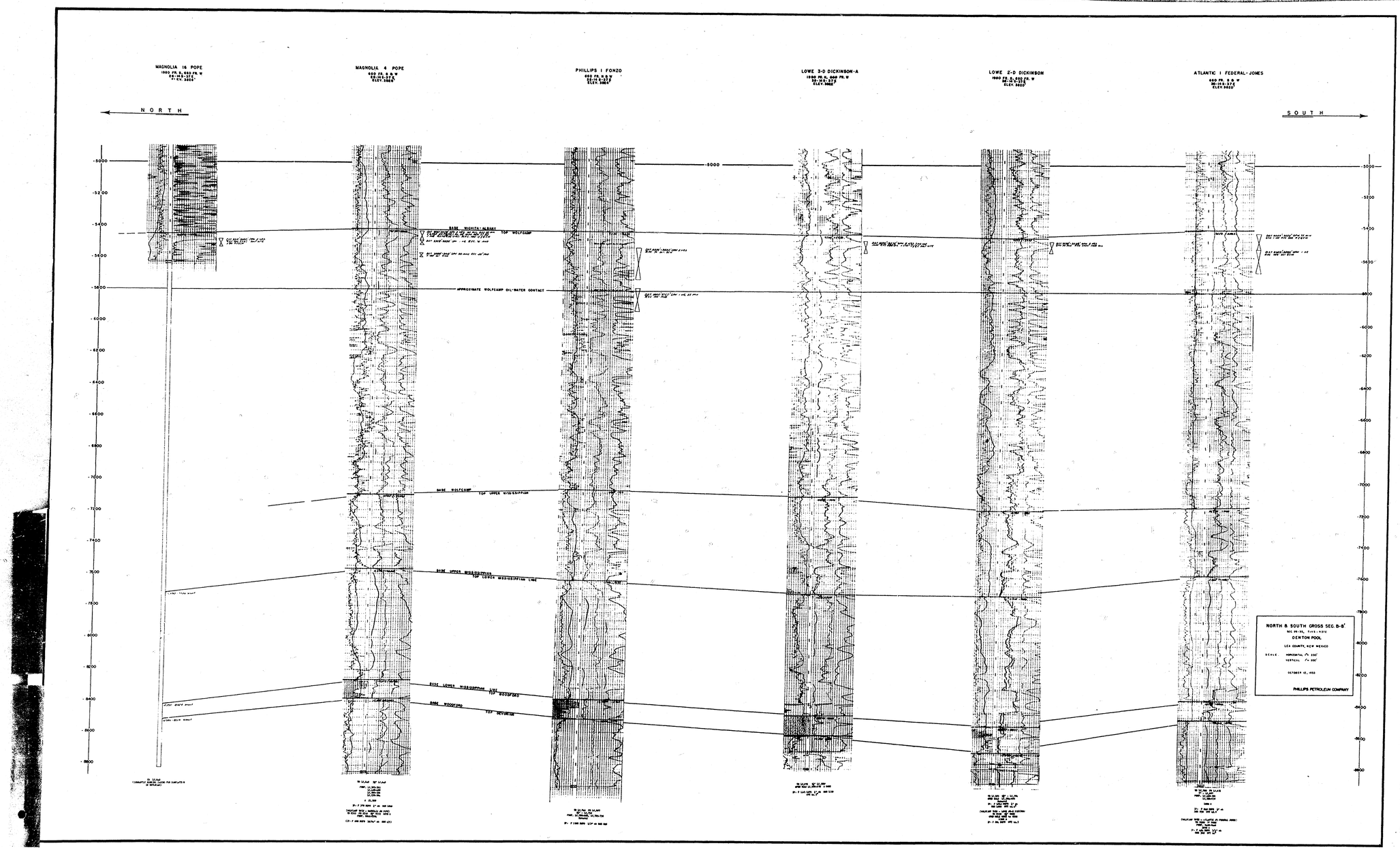
MAGNOLIA 16 POPE
MAGNOLIA 4 POPE
PHILLIPS 1 FONZO
LOWE 3-D DICKINSON-A
LOWE 2-D DICKINSON
ATLANTIC 1 FEDERAL-JONES
NORTH
SOUTH
BASE WICHITA-ALBANY
TOP WOLFCAMP
APPROXIMATE WOLFCAMP OIL-WATER CONTACT
BASE WOLFCAMP
TOP UPPER MISSISSIPPIAN
BASE UPPER MISSISSIPPIAN
TOP LOWER MISSISSIPPIAN LIME
BASE LOWER MISSISSIPPIAN LIME
TOP WOODFORD
BASE WOODFORD
TOP DEVONIAN
NORTH & SOUTH CROSS SEC. B-B'
DENTON POOL
LEA COUNTY, NEW MEXICO
PHILLIPS PETROLEUM COMPANY

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WEST

PHILLIPS NO. 2 FORT
1500' FR. E., 660' FR. N. SEC. 34
16S - 37E
ELEV. 3667'

PHILLIPS NO. 1 FORT
660' FR. E., 660 FR. E SEC. 34
16S-37E
ELEV. 3688'

PHILLIPS NO. 1 PORZO
660'FR. E & W., 30-16S-37E
ELEV. 3686'

LOWE NO. 5-D DICKINSON
1980' FR. W., 660' FR. N SECTION 33
16S — 37E
ELEV. 3652'

MAGNOLIA NO. 13 POPE
1980' FR. E., 660' FR. N SEC. 35
16S - 37E
ELEV. 3660

-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
-6200'
-6400'
-6600'
-6800'
-7000'
-7200'
-7400'
-7600'
-7800'
-8000'
-8200'
-8400'
-8600'
-8800'
-9000'

BASE WICHITA - ALBANY
TOP WOLFCAMP

APPROXIMATE OIL-WATER CONTACT

BASE WOLFCAMP
TOP UPPER MISSISSIPPIAN

BASE UPPER MISSISSIPPIAN
TOP LOWER MISSISSIPPIAN

BASE LOWER MISSISSIPPIAN
TOP WOODFORD

BASE WOODFORD
TOP DEVONIAN

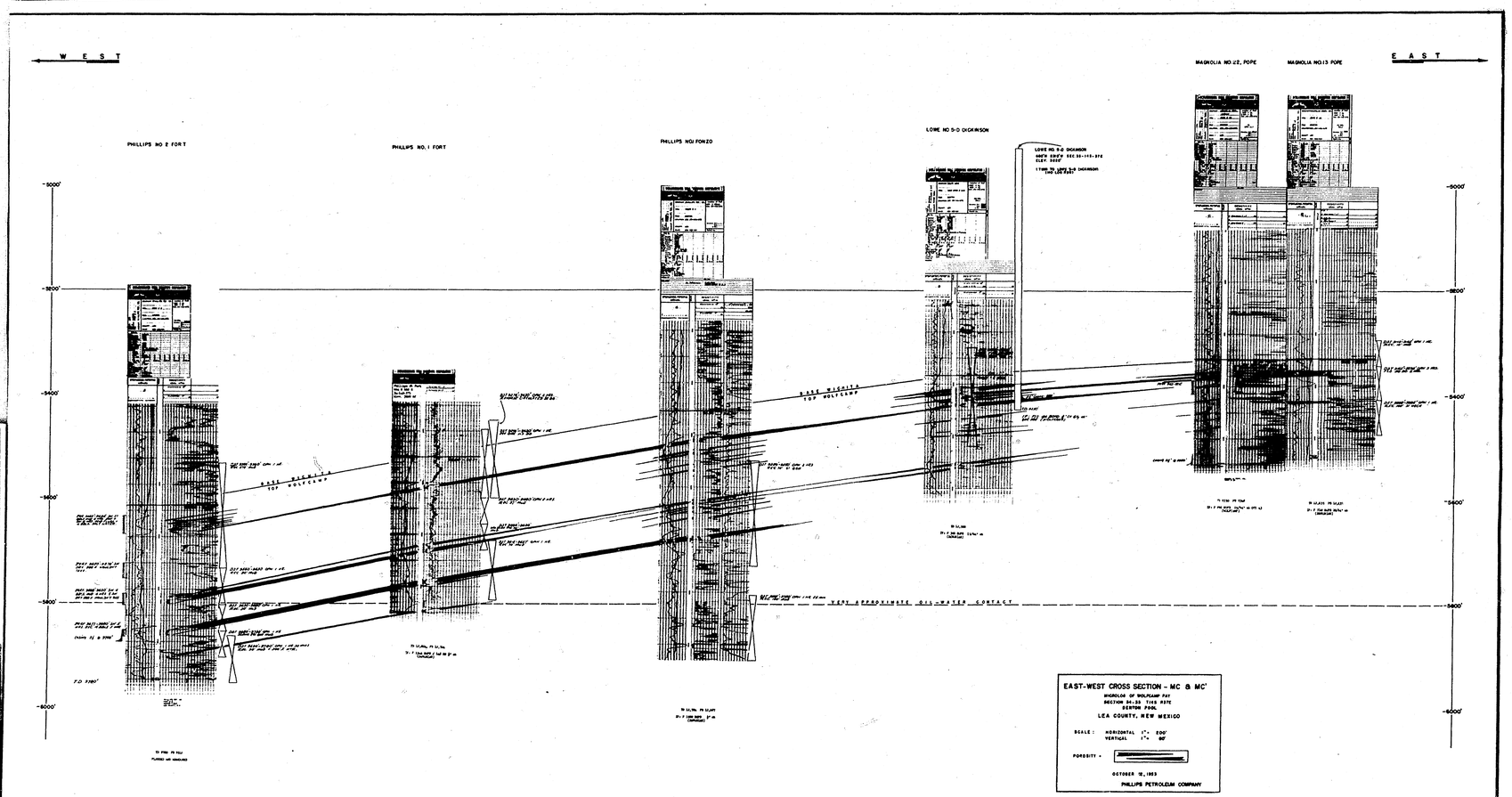
EAST-WEST CROSS SECTION - C & C'
SECTIONS 34 & 35 T16S R37E
DENTON POOL
LEA COUNTY, NEW MEXICO

SCALE : HORIZONTAL 1" = 200'
VERTICAL 1" = 200'

OCTOBER 10, 1963

PHILLIPS PETROLEUM COMPANY

51



WEST
EAST
PHILLIPS NO 2 FORT
PHILLIPS NO. 1 FORT
PHILLIPS NO1 FONZO
LOWE NO 5-D DICKINSON
MAGNOLIA NO 22, POPE
MAGNOLIA NO 13 POPE
-5000'
-5200'
-5400'
-5600'
-5800'
-6000'
BASE WICHITA
TOP WOLFCAMP
VERY APPROXIMATE OIL-WATER CONTACT
EAST-WEST CROSS SECTION - MC & MC'
MICROLOG OF WOLFCAMP PAY
SECTION 34-33 T16S R37E
BENTON POOL
LEA COUNTY, NEW MEXICO
SCALE: HORIZONTAL 1" = 200'
VERTICAL 1" = 80'
POROSITY =
OCTOBER 12, 1953
PHILLIPS PETROLEUM COMPANY

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① Case 557
Magnolia Exhibit #1

116

Company & Lease	Well No.	Unit	S-T-R	No. of Mos. Prod.	Acc. Prod 9-1-53
Atlantic Ref. Co					
Dickinson A-13	1	D	13-15-37	19	51139
A-34	1	H	34-14-37	6	18158
A-1	2	L	1-15-37	20	107199
B. Dickinson	1	L	12-15-37	19	147075
	2	D	12-15-37	20	91987
	4	E	"	7	27172
	5	M	"	3	6033
Federal Jones	3	M	35-14-37	9	41466
	4	P	34-14-37	3	11603
State F	5	N	2-15-37	6	31446
	6	F	"	10	49557
	7	H	"	6	31730
	8	M	"	7	31801
Gulf Oil Co Chamberlain	3	F	14-15-37	3	16977
	4	K	"	14	66672
	5	B	"	14	64710
Lee State "G"	5	I	2-15-37	10	47157
	6	J	"	8	38799
	7	P		7	36071
	8	O		6	27187
Simpson	4	I	3-15-37	4	9703
	5	P	3-15-35	6	496
Ralph Lowe Dickinson "D"	7	N	35-14-37	5	21417
	8	L	"	3	13395
	9	C	"	7	5292
	10	K	"	1	3060

② Case 557
Magnolia Exhibit #1

Company & Lease		Well No.	Unit	S-T-R	No. of Mos. Prod.	Acc. Prod.
Magnolia Petroleum Co Maxwell		2	[illegible]	[illegible]	[illegible]	[illegible] 166
		4	[illegible]	[illegible]	[illegible]	[illegible] 166
Pope		2	[illegible]	[illegible]	[illegible]	[illegible]
		8	[illegible]	[illegible]	[illegible]	[illegible]
		11	P	[illegible]	[illegible]	[illegible]
		15	[illegible]	26-14-37	[illegible]	[illegible]
		18	[illegible]	26-14-37	[illegible]	[illegible]
McAlester Fuel Co Denton	A	2	O	11-15-37	[illegible]	189702
McClure	A	2	G	14-15-37	[illegible]	35261
	B	2	J	"	9	37516
	D	1	H	"	[illegible]	17853
State	A	2	H	2-15-37	16	78093
Ohio Oil Co Denton		1	K	11-15-37	[illegible]	120517
		2	I	"	[illegible]	190578
		8	J	"	[illegible]	57049
		10	L	"	[illegible]	1963
Phillips Petroleum Co Denton		4	G	11-15-37	16	80115
		5	[illegible]	"	14	70074
		8	F	"	18	92796
		10	M	"	17	80700
		11	B	"	17	66646
		14	C	"	[illegible]	63735
Shell Oil Co Argo		4	A	2-15-37	9	46141
		5	H	"	5	10221
Pacific Royalty		2	I	10-15-37	[illegible]	[illegible]
Priest		4	P	1-15-37	7	33773
State	A	2	L	2-15-37	11	48187

③ Case 557
Magnolia Exhibit No. 1

Tank 5'
Tank 7'

Company & Lease		Well No.	Unit	S-T-R	Number of Mos. Prod.	Accum. Prod. 9-1-53
Skelly Oil Co Mexico	F	6	C	2-15-37	17	82415
		7	G	"	16	73374
		8	D	"	14	70097
		9	E	"	14	71903
		11	B	"	13	60250
		12	A	"	4	20788

COPY

(Skelly Exhibit #1)

SKELLY OIL COMPANY
Mexico "F" Lease
Wolfcamp Formation

LEASE DEVELOPMENT:

First well started - February - 1952
Last well completed - April - 1953
Number wells drilled - 6

INVESTMENT:

Total investment as of 6-30-53	-	$884,854.00
Payout status as of 6-30-53	-	200,951.00
Operating expense including production tax	-	$56,858.00
Production - gross barrels	-	285,808.00
Lifting cost per gross barrel	-	$.20
Payout rate - per month	-	$70,000.00
Estimated date of payout	-	Oct. 1,1953
Average per well investment (Includes tank battery)		$147,476.00
Payout time per well		12.7 Months

Tubular requirements - average per well

Surface pipe	-	13-3/8	-	303 feet
Intermediate string	- 9-5/8 or	8-5/8	-	4753 "
Oil string	-	5-1/2	-	9204 "
Tubing	-	2	-	9142 "
Average per well tubular tonnage			-	189 tons

MISCELLANEOUS:

Average elapsed time - spudding to release	- 62 days
Cement - total all casing	-3040 sx.
Acid	-1925 gal.
Perforations	- 140
Tank battery	-5-H1000
Average depth drilled	-9217

Skelly Ex. 1
Oct. 15, 1953

OIL WELLS CONTINUED

PAGE NO. 2

Pool	Lease	Well No.	Lower Zone Name	Lower Zone Depth Perf.	Upper Zone Name	Upper Zone Depth Perf.	Date of Dual Comp.
Golden Trend	Chaw-Larnie	1	Hart	7927-7954'	Gibson	7706-7725'	Jan. '52
K. W. Lindsay	Cicero	1	1st and 2d Bromide	10620-10854'	Chimney Hill	9718-9761'	Oct. '52
Golden Trend	Clark "A"	1	Hart	6908-6878'	Gibson	6742-6762'	Dec. '52
West Doyle	Craven	1	Hefner	6202-6250'	Culberson - Gas	5412-5429'	Oct. '43
West Doyle	Culberson	3	Doyle	6122-6156'	Culberson - Gas	5442-5545'	July '45
Golden Trend	Curtis	3	Hart	6895-6916'	Gibson	6794-6848'	Aug. '50
Golden Trend	Denson	1	Springer	9487-9557'	Hart	8586-8632'	Mar. '52
Golden Trend	Denson	2	Springer	9512-9580'	Hart	8612-8658'	Jan. '53
Golden Trend	Denson	3	Springer	9319-9370'	Hart	8540-8604'	Mar. '53
Golden Trend	Enna	1	Hart	6980-7003'	Gibson	6818-6903'	May '52
Golden Trend	Forkner	1	Hart	7596-7708'	Gibson	7453-7464'	Aug. '51
Golden Trend	Grant	1	Hart	7053-7070'	Gibson	6898-6916'	July '52
Golden Trend	Harr	1	Hart	7428-7497'	Gibson	7278-7341'	May. '51
Golden Trend	Hinkle	1	Hart	7564-7604'	Gibson	7366-7408'	Dec. '52
Golden Trend	Landa	1	Hart	7110-7127'	Gibson	6968-7011'	Mar. '52
Golden Trend	Landa	2	Hart	7195-7203'	Gibson	7044-7061'	Nov. '52
K. W. Lindsay	McDaniel	1	Bromide	10765-10866'	Chimney Hill	9780-9825'	Oct. '51
Golden Trend	Norma	1	Hart	8536-8593'	Gibson	9232-9093'	Aug. '52
Golden Trend	Potts "A"	1	Hart	7166-7193'	Gibson	6999-7053'	July '52
Golden Trend	Russell	1	Hart	7182-7206'	Gibson	7098-7113'	May '51
Golden Trend	Sax	1	Hart	7527-7570'	Gibson	7422-7438'	Sept. '52
Golden Trend	Saylors	1	Hart	7514-7538'	Gibson	7365-7430'	Feb. '52
Golden Trend	Tecumseh	1	Hart	7448-7481'	Gibson	7353-7323'	July '51
Golden Trend	Thompson "A"	1	Hart	7136-7160'	Gibson	7085-7099'	July '51
Golden Trend	Tibben	1	Hart	7853-7913'	Gibson	7663-7673'	Oct. '49
Golden Trend	Vena	1	Hart	7622-7658'	Gibson	7428-7505'	June '52
Golden Trend	Walden	1	Hart	7485-7560'	Gibson	7346-7400'	May '51
Golden Trend	Walden	2	Hart	7488-7568'	Gibson	7344-7369'	Aug. '51
Golden Trend	Wilber	1	Hart	7314-7336'	Gibson	7187-7255'	Mar. '51
E. White Point	Sand	3	1st Sinton	5785-5815'	E. White Point	5605-5610'	July '53
Chocolate Bayou	Banfield	2	U.Houston Farms	11432-11475'	L. Houston Farms	11012-11020'	Aug. '53
Chocolate Bayou	Schenck	4	U.Houston Farms	9838-9882'	Upper Frio	8821-8826'	Aug. '53
Fenwell	Millard "A"	1	Ellenburger	8610-8677'	Wichita Albany	6556-6610'	Aug. '53
N. E. Andrews	Tex.Univ."VV"	1	Ellenburger	13813-13849'	Devonian	12530-12570'	Aug. '53

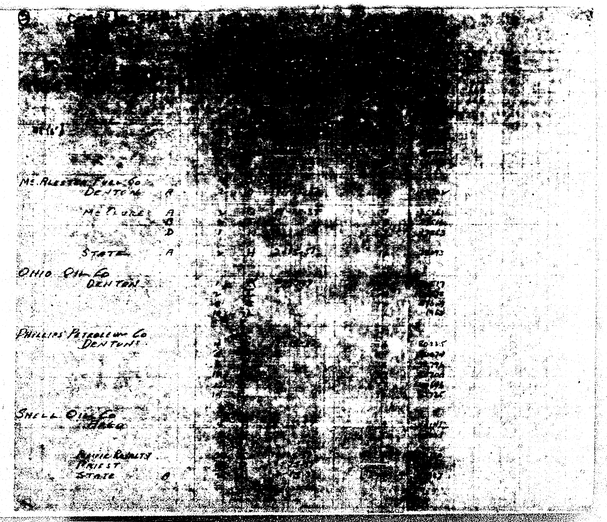
DUALLY COMPLETED OIL WELLS
PHILLIPS OPERATED
as of July 1, 1953

Pool	Lease	Well No.	Lower Zone Name	Lower Zone Depth Perf.	Upper Zone Name	Upper Zone Depth Perf.	Date of Dual Comp.
Andector	McEntire	3	Waddell	7835-7910'	McKee	7635-7725'	May '42
Goldsmith	Rysewander	5	Clearfork	6170-6200'	Goldsmith 5600'	5450-5850'	Aug. '52
Goldsmith	Rysewander	6	Clearfork	6190-6275'	Goldsmith 5600'	5518-5820'	Oct. '52
Goldsmith	Schar	10	Clearfork	6115-6280'	Goldsmith 5600'	5470-5695'	Oct. '52
Goldsmith	Schar	11	Clearfork	6192-6240'	Goldsmith 5600'	5418-5674'	Sept. '52
Goldsmith	Schar	12	Clearfork	6166-6260'	Goldsmith 5600'	5430-5850'	July '52
Goldsmith	Schar "A"	11	Clearfork	6190-6275'	Goldsmith 5600'	5470-5565'	Oct. '52
N. E. Andrews	Tex.Univ."CC"	2	Ellenburger	13825-T. D.	Devonian	12530-12590	Apr. '43
Embar	Univ.Andrews	44	Ellenburger	7690-7900'	Permian	5185-6249'	Sept. '43
Embar	Univ.Andrews	58	Ellenburger	7800-7840'	Permian	6200-6250'	Apr. '44
TXL	Alta	5	Ellenburger	9640-9680'	Silurian	8282-8312'	Oct. '52
Wheeler	Cushing	1	Ellenburger	10530-10560'	Devonian	8485-8600'	July '50
Fenwell	Millard "B"	1	Ellenburger	8600-8677	Waddell	8373-8405'	Oct. '52
Fenwell	Millard "B"	1	Ellenburger	8655-T.D.	Fusselman	7415-7490'	July '53
TXL	Slat	1	Ellenburger	9610-5700'	Silurian	8345-8415'	May '52
TXL	Slat	2	Ellenburger	9665-9495'	Silurian	8350-8420'	May '52
TXL	TXL "A"	1	Ellenburger	9670-9720'	Silurian	8420-8490'	May '52
TXL	TXL "A"	2	Ellenburger	9690-9720'	Silurian	8360-8410'	Oct. '52
Wheeler	TXL "G"	1	Ellenburger	10575-10600	Devonian	8460-8520'	Sept. '46
Wheeler	TXL "J"	1	Ellenburger	10572-10622'	Devonian	8407-8580'	Sept. '47
E. White Point	Call	2	1st Sinton	5785-5815'	E. White Point	5590-5630'	Apr. '53
E. White Point	Call	3	1st Sinton	5822-5826'	E. White Point	5590-5600'	May '53
E. Wingwood	Grimsley	2	5th Conglomerate	5846-5852	2nd Conglomerate	5658-5672'	May '53
Frankirk	Stonewall	3	Ellenburger	6811-	Canyon	4528-4549'	Apr. '52
Mackey	Watson "A"	1	5100' Strawn	5072-5100'	4400' Strawn	4471-4478'	June '53
N. Lindsay Deese	Alice	1	5th Deese	8400-8440'	Hart	8175-8220'	Dec. '51
Golden Trend	Arneson	1	Springer	9676-9758'	Hart	8650-8738'	Apr. '53
Golden Trend	Audy "A"	1	Springer	9612-9658'	Hart	8636-8710'	July '52
Golden Trend	Audy "B"	1	Springer	9636-9775'	Hart	8690-8738'	Oct. '52
Golden Trend	Barb	1	Springer	9363-9429'	Hart	8590-8626'	May '52
Golden Trend	Basal	1	Hart	7749-7845'	Gibson	7578-7595'	Oct. '49
Golden Trend	Basal	2	Hart	7636-7609'	Gibson	7468-7495'	Dec. '49
Golden Trend	Basal	3	Hart	7621-7632'	Gibson	7432-7473'	Feb. '50
Golden Trend	Baxter	1	Hart	6939-6952'	Gibson	6774-6866'	Sept. '52
Golden Trend	Barnhan	1	Hart	7512-7520'	Gibson	7361-7383'	July '52
Golden Trend	Cecalia	1	Hart	7790-7814'	Gibson	7598-7625'	Nov. '52

P.P.Co. Ex. 6
Oct. 15, 1953

① Case 557
Magnolia Exhibit #1

Company & Lease	Well No.	Unit	S-T-R	No. of Wells Prod.	Cum. Prod. 7-1-53
Dickerson A-13; A-34; A-1	1	D	13-15-37	18	57,183
	1	H	34-14-37	6	48156
	2	L	1-25-37	20 wells	107,199
B. Dickinson	1	L	12-15-37	14	147,927
	2	D	12-15-37	10	91,582
	4	E	"	7	37,754
	5	M	"	3	6123
Federal Wells	3	M	25-14-37	9	41466
	4	P	24-14-37	3	11603
State T	5	K	2-15-37	6	31496
	6	F	"	10	48257
	7	N	"	6	27850
	8	M	"	7	31801
Gulf Oil Co. Chamberlain	3	F	14-15-37	3	16727
	4	K	"	14	66437
	5	B	"	14	64710
Lee State G	5	I	2-15-37	10	47117
	6	J	"	8	38393
	7	P		7	30071
	8	O		6	23161
Simpson	4	I	3-15-37	4	9764
	5	P	3-15-37	1	646
Ralph Lowe, Dickinson "D"	7	N	35-14-37	5	31417
	8	L	"	3	13235
	9	C	"	2	5022
	10	K	"	1	2060



③ Case 557
Magnolia Exhibit no. 1.
South 5'
West 7'

Company & Lease	Well No.	Unit	S-T-R	Number of Acres Prod. Each Well	Cum. Prod.
Shelly Oil Co. Mexico F	6	C	2-15-37	17	22415
	7	G	"	16	76374
	8	O	"	14	76697
	9	E	"	14	51742
	11	A	"	13	60160
	14	B	"	4	20722

COPY

(Shelly Exhibit #1)

SHELLY OIL COMPANY
Denton "F" Lease
Wolfcamp Formation

LEASE DEVELOPMENT:

First well started	- February	- 1952
Last well completed	- April	- 1953
Number wells drilled	- 6	

INVESTMENT:

Total investment as of 6-30-53	-	$404,954.00
Payout status as of 6-30-53	-	300,951.00
Operating expense including production tax	-	56,858.00
Production - gross barrels	-	385,808.00
Lifting cost per gross barrel	-	.20
Payout rate - per month	-	870,000.00
Estimated date of payout	-	Oct. 1,1953
Average per well investment (Includes tank battery)		$147,476.00
Payout time per well		12.7 Months

Tubular requirements - average per well

Surface pipe - 13-3/8	-	301 feet
Intermediate string - 9-5/8 or 8-1/8	-	4723 "
Oil string - 5-1/2	-	9538 "
Tubing - 2	-	9147 "
Average per well tubular tonnage	-	189 tons

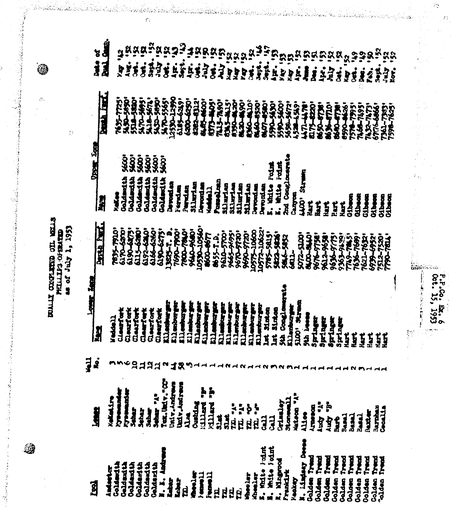
MISCELLANEOUS:

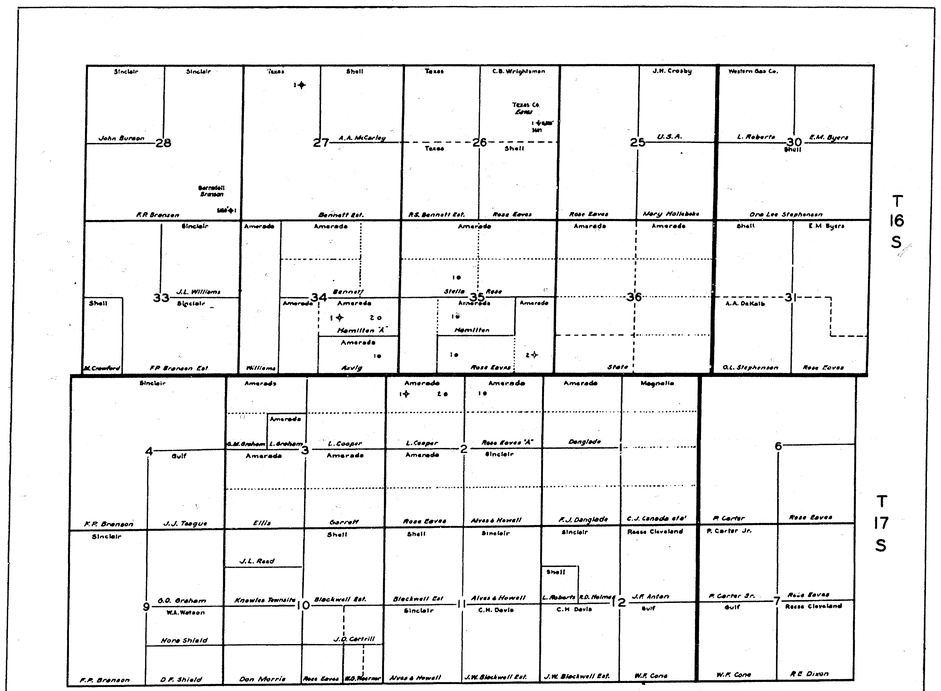
Average elapsed time - spudding to release	-	61 days
Cement - total all casing		-3060 sx.
Acid		-1955 gal.
Perforations		- 140
Tank battery		-$-#11000
Average depth drilled		-9217

OIL WELLS CONTINUED PAGE NO. 2

Pool	Lessee	Well No.	Lower Zone: Name	Lower Zone: Depth Top/Bot.	Upper Zone: Name	Upper Zone: Depth Top/Bot.	Date of Final Comp.
Golden Trend	Chas-Lewis	1	Mark	7927-7954'	Gibson	7706-7725'	Jan. '52
F. W. Lindsey	Shamrock	1	1st and 2d Brunside	10620-10694'	Chimney Hill	9718-9761'	Feb. '52
Golden Trend	Clark "A"	1	Mark	6908-6978'	Gibson	6763-6790'	Dec. '52
West Eagle	Owens	1	Bartay	6309-6360'	Culbertson - Gas	5413-5439'	Jan. '53
West Eagle	Culbertson	2	Eagle	6128-6154'	Culbertson - Gas	5410-5435'	July '53
Golden Trend	Curtis	1	Mark	6895-6916'	Gibson	6708-6868'	Apr. '52
Golden Trend	Dawson	1	Springer	7677-7737'	Mark	6984-6851'	Dec. '52
Golden Trend	Dawson	2	Springer	7710-7780'	Mark	6813-6868'	Jan. '53
Golden Trend	Dawson	3	Springer	7519-7570'	Mark	6840-6854'	Feb. '53
Golden Trend	Ezzo	1	Mark	6980-7005'	Gibson	6816-6903'	Apr. '52
Golden Trend	Forkner	1	Mark	7996-7708'	Gibson	7653-7664'	Aug. '51
Golden Trend	Grant	1	Mark	7053-7070'	Gibson	6956-6976'	July '52
Golden Trend	Hary	1	Mark	7128-7177'	Gibson	7078-7141'	Feb. '51
Golden Trend	Hinkle	1	Mark	7966-7976'	Gibson	7788-7688'	Dec. '52
Golden Trend	Kanda	1	Mark	7110-7137'	Gibson	6968-7011'	Feb. '52
Golden Trend	Kanda	2	Mark	7195-7303'	Gibson	7064-7084'	Nov. '52
F. W. Lindsey	Kimbal	1	Brunside	10765-10866'	Chimney Hill	9780-9885'	Feb. '51
Golden Trend	Kopus	1	Mark	8536-8953'	Gibson	8153-8291'	Feb. '52
Golden Trend	Pate "A"	1	Mark	7166-7193'	Gibson	6999-7093'	July '52
Golden Trend	Russell	1	Mark	7183-7206'	Gibson	7090-7133'	'51
Golden Trend	Sax	1	Mark	7527-7570'	Gibson	7358-7438'	Feb. '52
Golden Trend	Saylers	1	Mark	7514-7530'	Gibson	7345-7430'	Dec. '52
Golden Trend	Tecumseh	1	Mark	7448-7481'	Gibson	7333-7353'	July '51
Golden Trend	Thompson "A"	1	Mark	7136-7160'	Gibson	7085-7099'	Jan. '51
Golden Trend	Tilson	1	Mark	7953-7913'	Gibson	7643-7673'	Oct. '49
Golden Trend	Wynn	1	Mark	7428-7458'	Gibson	7138-7205'	Aug. '52
Golden Trend	Walden	1	Mark	7495-7560'	Gibson	7345-7400'	Aug '51
Golden Trend	Walden	2	Mark	7498-7560'	Gibson	7344-7369'	Feb. '51
Golden Trend	Wilbur	1	Mark	7314-7394'	Gibson	7187-7255'	Mar. '51
S. White Joint	Sand	3	1st Simon	5785-5815'	S. White Joint	5605-5610'	July '53
Chocolate Bayou	Hanfield	2	U.Houston Farms	11133-11475'	L. Houston Farms	11015-11080'	Aug. '53
Chocolate Bayou	Bakeout	4	U.Houston Farms	9826-9882'	Upper Frio	8821-8884'	Aug. '53
Powell	Willard "A"	1	Ellenburger	8610-8677'	Wilcox Albany	8556-8610'	Aug. '53
H. H. Andrews	Tex.Gulf."T"	1	Ellenburger	13853-13867'	Devonian	12930-12970'	Aug. '53

54





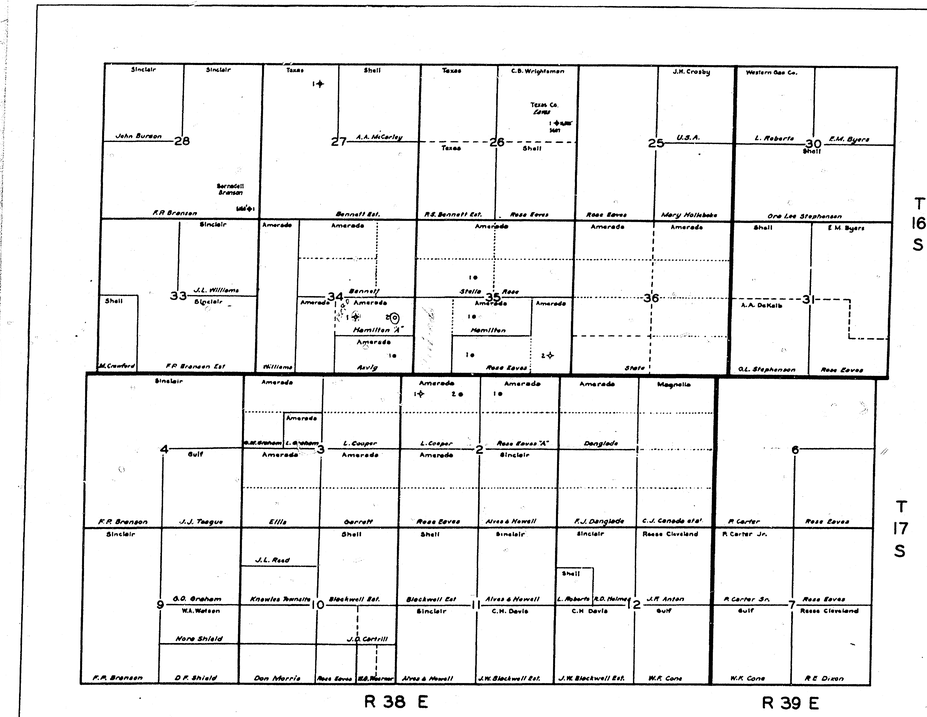
KNOWLES FIELD

LEA COUNTY, NEW MEXICO

0 1/8 1/2 3/4 1 MI.

SCALE 1" = 2000'

55

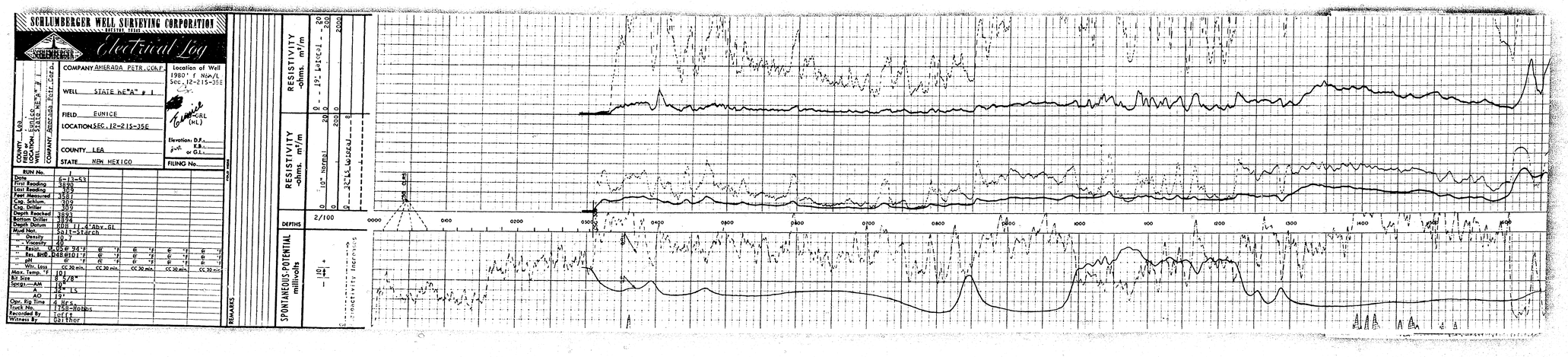


KNOWLES FIELD

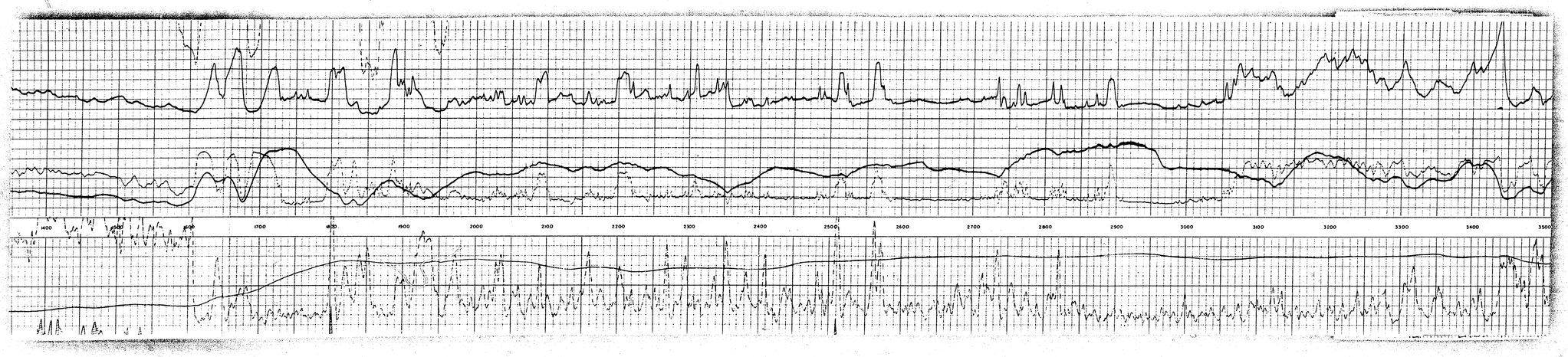
LEA COUNTY, NEW MEXICO

0 1/8 1/2 3/4 1 MI.

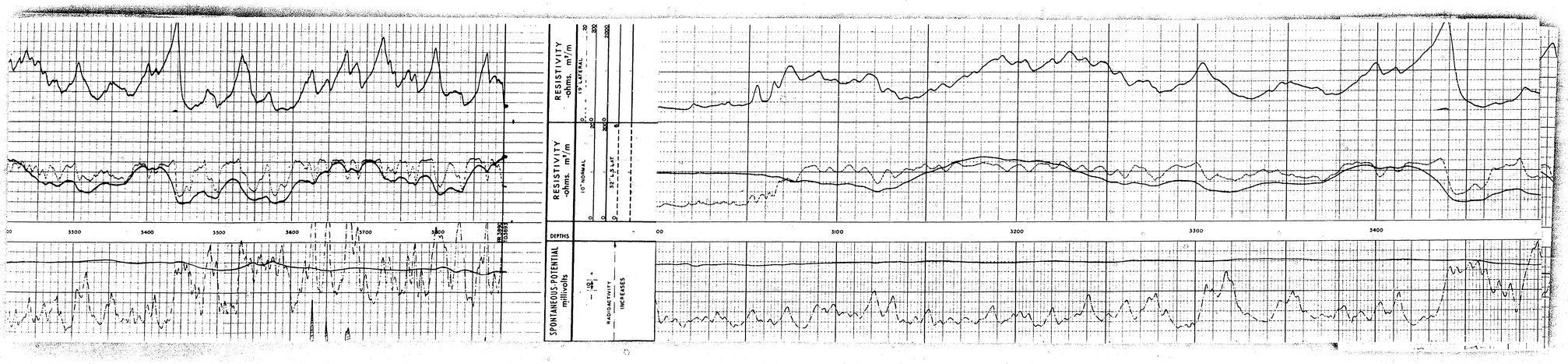
SCALE 1" = 2000'


SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Log
COMPANY AMERADA PETR. CORP.
WELL STATE NE"A" # 1
FIELD EUNICE
LOCATION SEC. 12-21S-35E
COUNTY LEA
STATE NEW MEXICO
Location of Well
1980' f N&W/L
Sec. 12-21S-35E
Eunice
GRL (NL)
Elevation: D.F.
K.B.
or G.L.
FILING No.
RUN No. 1
Date 6-13-53
First Reading 3890
Last Reading 309
Feet Measured 3581
Csg. Schlum. 309
Csg. Driller 309
Depth Reached 3893
Bottom Driller 3894
Depth Datum RDB 11.4'Abv GL
Mud Nat. Salt-Starch
" Density 10.7
" Viscosity 40
" Resist. 0.05@ 94°F @ °F @ °F @ °F @ °F
" Res. BHD .048@101°F @ °F @ °F @ °F @ °F
" pH @ °F @ °F @ °F @ °F @ °F
" Wtr. Loss CC 30 min. CC 30 min. CC 30 min. CC 30 min. CC 30 min.
Max. Temp. °F 101
Bit Size 8 5/8"
Spcgs.—AM 10"
A 32" LS
AO 19'
Opr. Rig Time 4 Hrs.
Truck No. 1758-Robbs
Recorded By Jeffe
Witness By Gaither
REMARKS
RESISTIVITY -ohms. m²/m
0 - - 19" Lateral - - 20
0 200
0 2000
RESISTIVITY -ohms. m²/m
0 10" Normal 20
0 200
0 32" LS Lateral 8
DEPTHS 2/100
SPONTANEOUS-POTENTIAL millivolts
0000
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
1300
1400
1500
1600

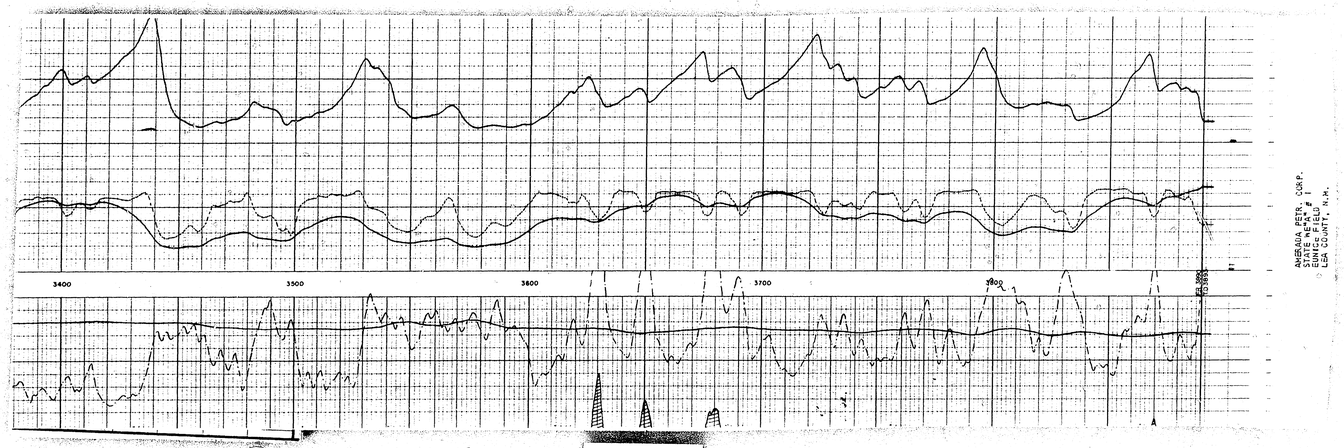
56


1400
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500

57

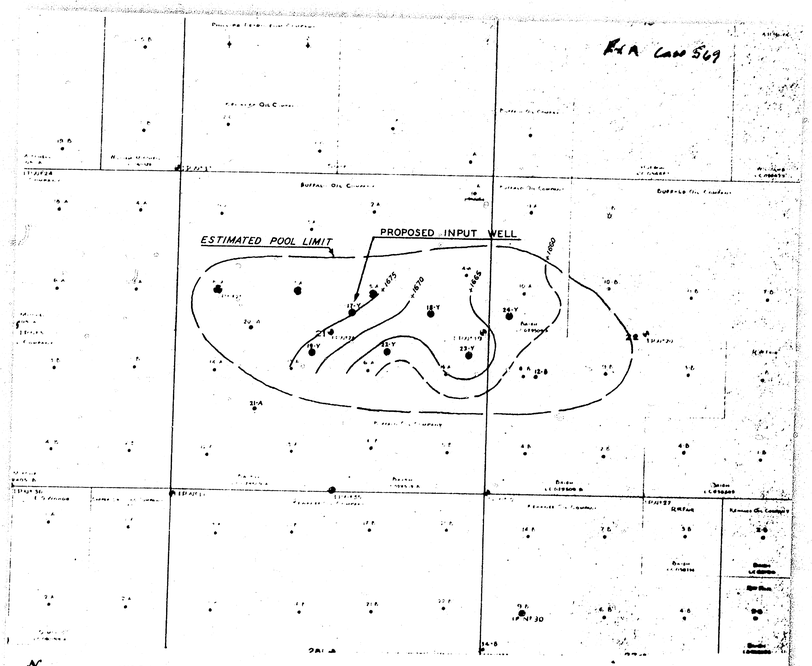

RESISTIVITY
-ohms. m²/m
16" NORMAL
32"-16 LAT.
RESISTIVITY
-ohms. m²/m
10" NORMAL
32"-16 LAT.
DEPTHS
SPONTANEOUS POTENTIAL
millivolts
RADIOACTIVITY
INCREASES
3300
3400
3500
3600
3700
3100
3200
3300
3400

58


3400
3500
3600
3700
3800
AMERADA PETR. CORP.
STATE "E" # 1
EUNICE FIELD
LEA COUNT, N.M.

59

Ex A Case 569



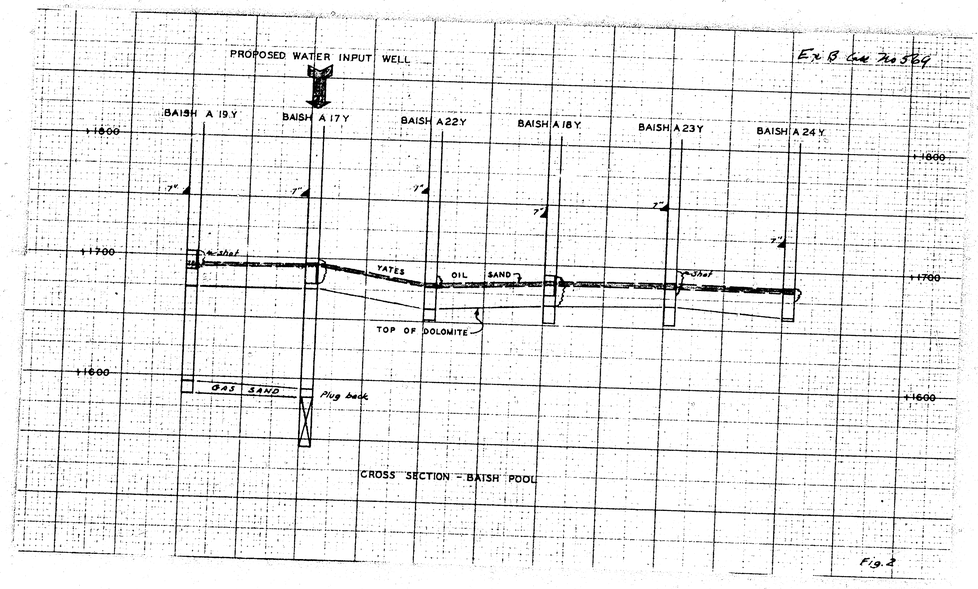
N

- MALJAMAR POOL WELL
- BAISH POOL WELL
- PREVIOUS BAISH POOL WELL

MAP OF BAISH POOL
Lea County, N. M.

Contours on top of Dolomite
Scale: 1"= 1000' July 1953

Ex B Case No 569



CROSS SECTION - BAISH POOL

Fig. 2

60

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Rush Print

COMPANY Tide Water Associated Oil Co.
WELL Coates "A" #1
FIELD Wildcat
LOCATION
COUNTY Lea
STATE New Mexico

Location of Well
Elevation: D.F.
K.B.
or G.L.
FILING No.

COUNTY / FIELD or LOCATION / WELL / COMPANY

RUN No.			
Date	8-26-52		
First Reading	4914		
Last Reading	2916		
Feet Measured	1748		
Csg. Schlum.	2996		
Csg. Driller	3021		
Depth Reached	4913		
Bottom Driller	4920		
Depth Datum	RDB, 12' Above G.L.		
Mud Nat.	Gel-Chem Base Fresh		
Density	9.9		
Viscosity	50		
Resist.	0.26@ 80 F	@ F	
Res. BHT	@ 126 112 F	@ F	
pH	9	@ F	
Wtr. Loss	12 CC 30 min	CC 30 min	
Max. Temp. F	112		
Bit Size	7⅞ & 6 3/4 Cuts 12		
	8"		
	8 3/4		
	12		
Opr. Rig Time			
Truck No.	1707 Hobbs		
Recorded By	Tittle		
Witness By			

REMARKS

N.M.E.

8" Normal

16" Normal

121 Calibrated Lateralog

2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800

Prod 4675-4724

ACTIVITY

COMPLETION

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Rush Print

COMPANY Tide Water Associated Oil Co.
WELL Coates "A" #1
FIELD Wildcat
LOCATION
COUNTY Lea
STATE New Mexico

Location of Well
Elevation: D.F.
K.B.
or G.L.
FILING No.

COUNTY / FIELD or LOCATION / WELL / COMPANY

RUN No. | Date 8-26-52 | First Reading 4914 | Last Reading 2916 | Feet Measured 1748 | Csg. Schlum. 2996 | Csg. Driller 3021 | Depth Reached 4913 | Bottom Driller 4920 | Depth Datum RDB, 12' Above G.L. | Mud Nat. Gel-Chem Base Fresh | Density 9.9 | Viscosity 50 | Resist. 0.26@ 80 F | @ F | Res. BHT @ 126 112 F | @ F | pH 9 | @ F | Wtr. Loss 12 CC 30 min | CC 30 min | Max. Temp. F 112 | Bit Size 7⅞ & 6 3/4 Cuts 12 | 8" | 8 3/4 | 12 | Opr. Rig Time | Truck No. 1707 Hobbs | Recorded By Tittle | Witness By

REMARKS

N.M.E.

8" Normal

16" Normal

121 Calibrated Lateralog

2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800

Prod 4675-4724

ACTIVITY

COMPLETION

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Rush Print

COMPANY Tide Water Associated Oil Co.
WELL Coates "A" #1
FIELD Wildcat
LOCATION
COUNTY Lea
STATE New Mexico

Location of Well
Elevation: D.F.
K.B.
or G.L.
FILING No.

COUNTY / FIELD or LOCATION / WELL / COMPANY

RUN No. | Date 8-26-52 | First Reading 4914 | Last Reading 2916 | Feet Measured 1748 | Csg. Schlum. 2996 | Csg. Driller 3021 | Depth Reached 4913 | Bottom Driller 4920 | Depth Datum RDB, 12' Above G.L. | Mud Nat. Gel-Chem Base Fresh | Density 9.9 | Viscosity 50 | Resist. 0.26@ 80 F | @ F | Res. BHT @ 126 112 F | @ F | pH 9 | @ F | Wtr. Loss 12 CC 30 min | CC 30 min | Max. Temp. F 112 | Bit Size 7⅞ & 6 3/4 Cuts 12 | 8" | 8 3/4 | 12 | Opr. Rig Time | Truck No. 1707 Hobbs | Recorded By Tittle | Witness By

REMARKS

N.M.E.

8" Normal

16" Normal

121 Calibrated Lateralog

2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100 4200 4300 4400 4500 4600 4700 4800

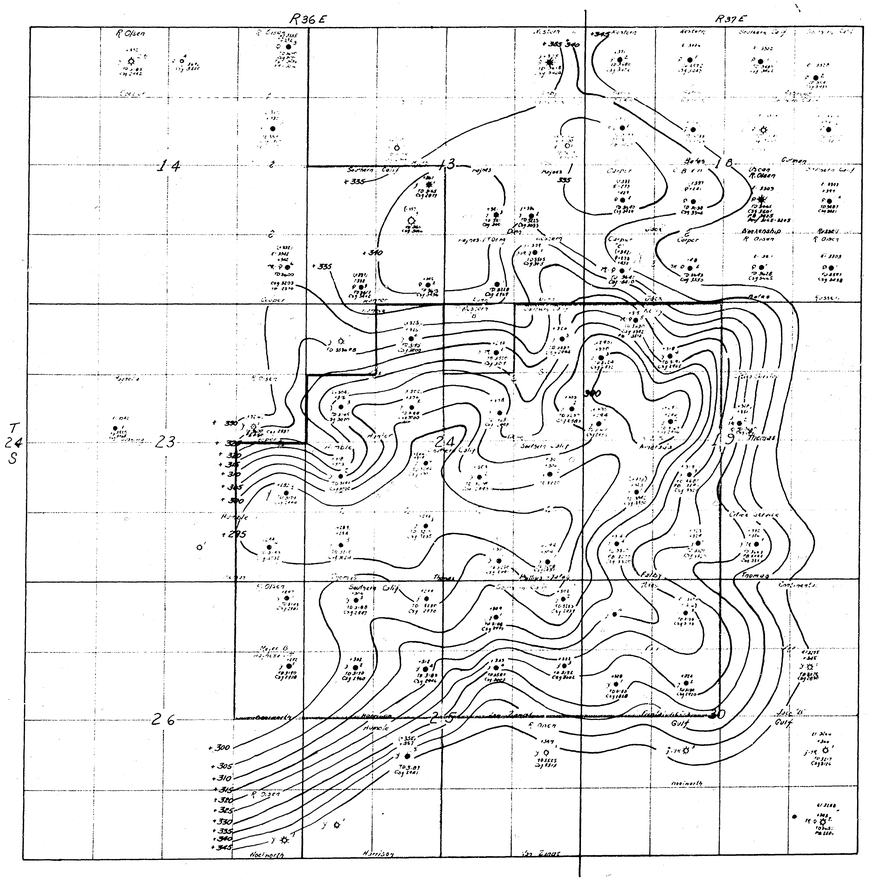
Prod 4675-4724

ACTIVITY

COMPLETION

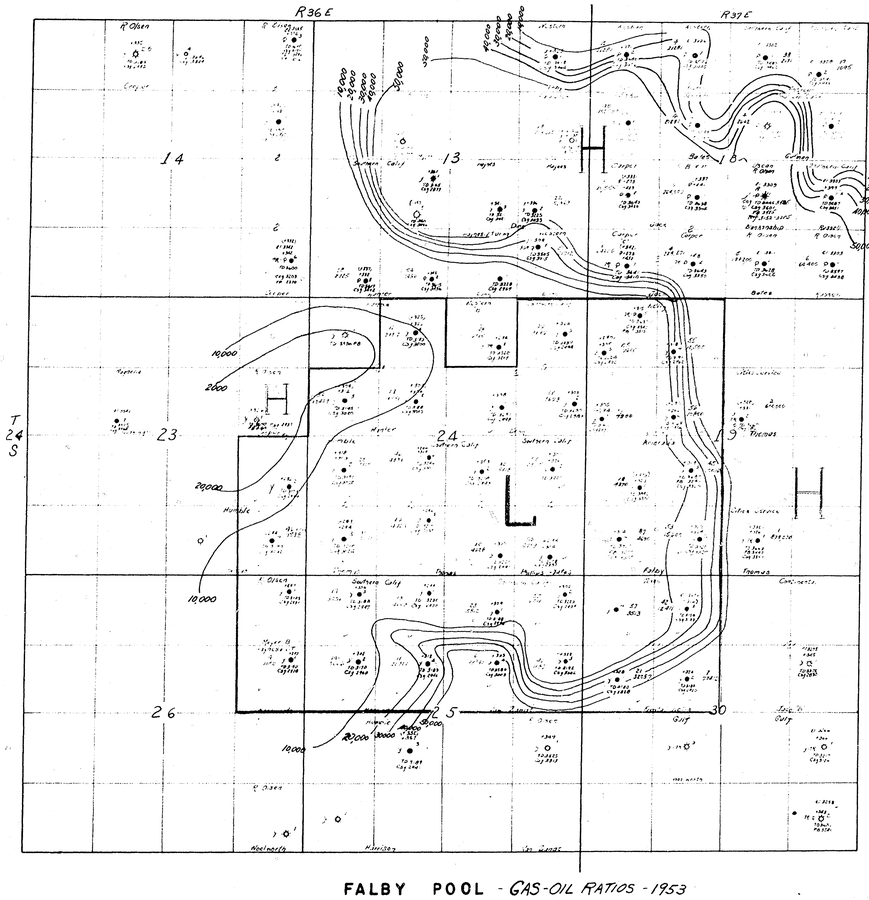
61

EXHIBIT NO. 1



FALBY POOL

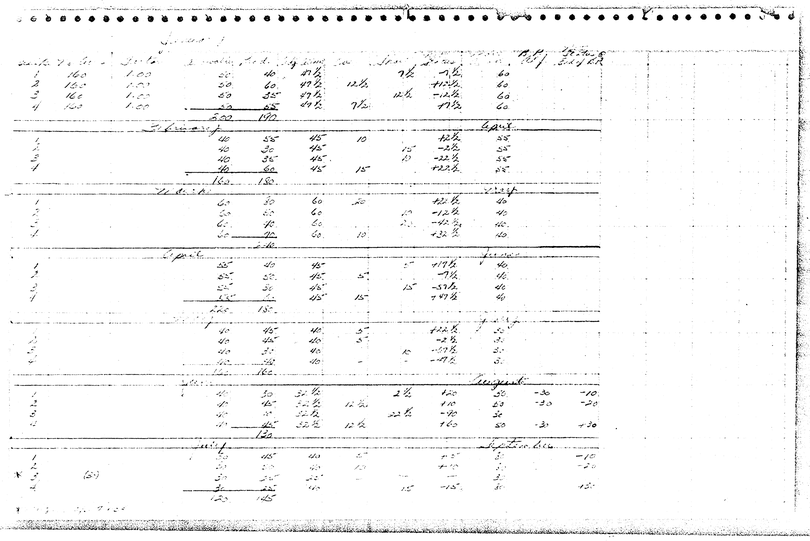
EXHIBIT NO. 2

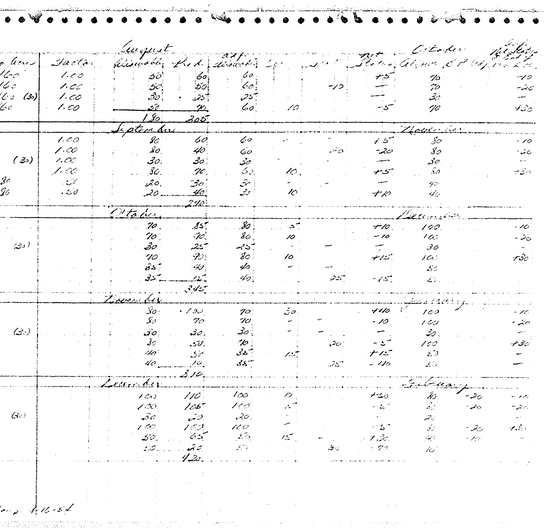


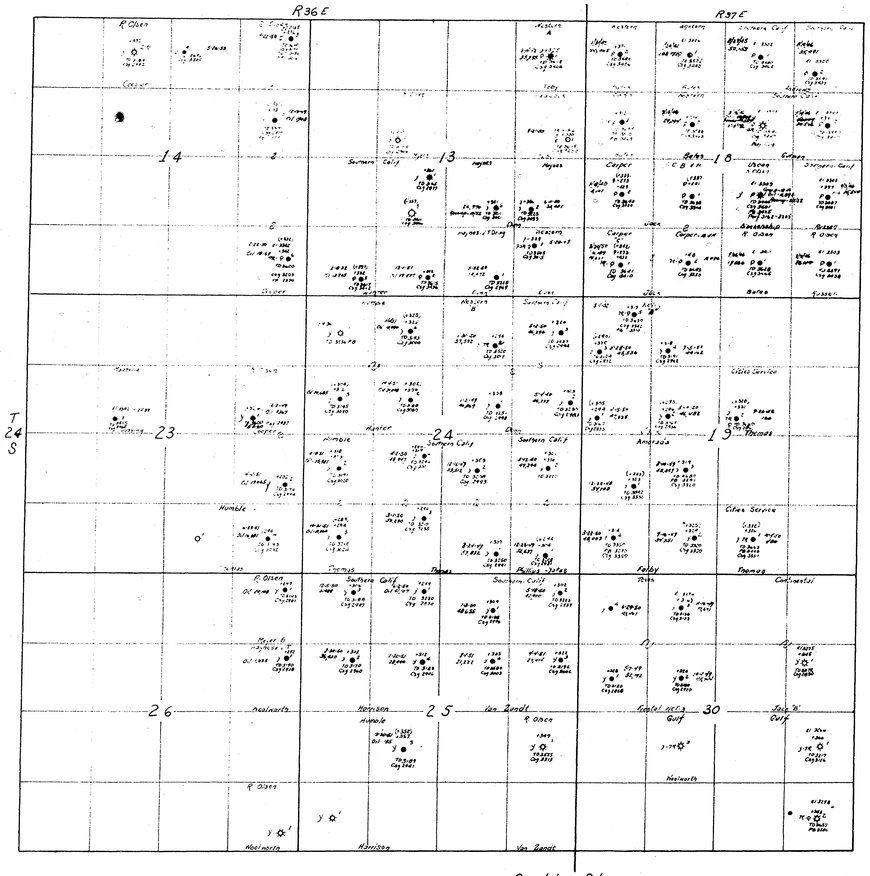
FALBY POOL - GAS-OIL RATIOS - 1953

62

63



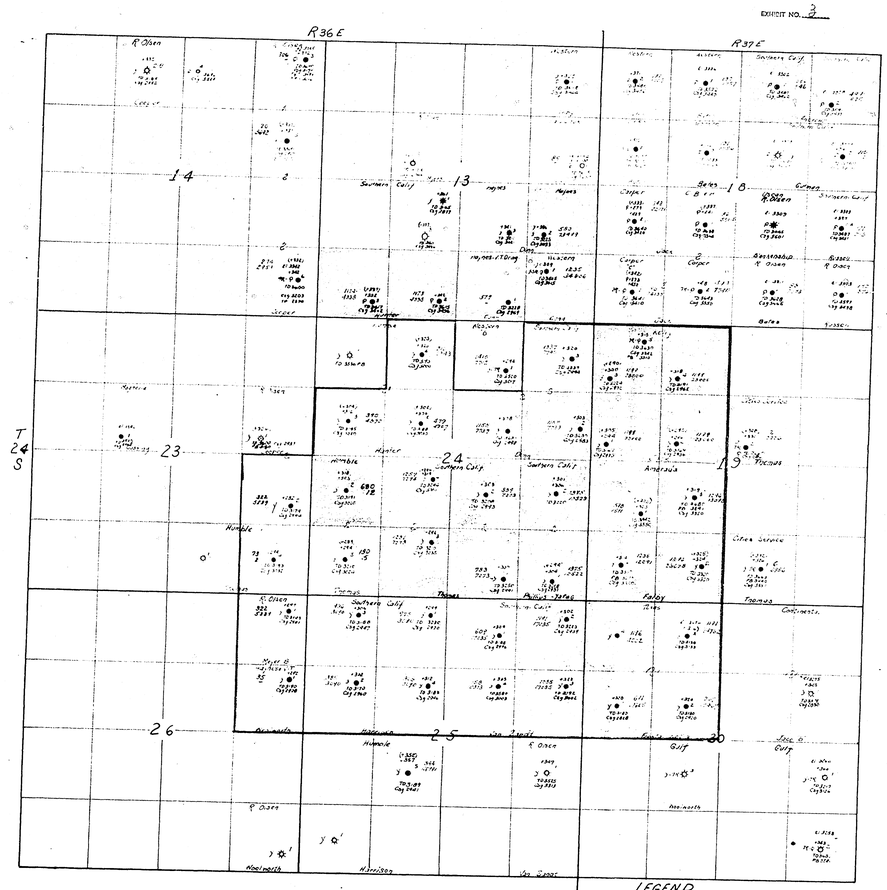




FALBY POOL

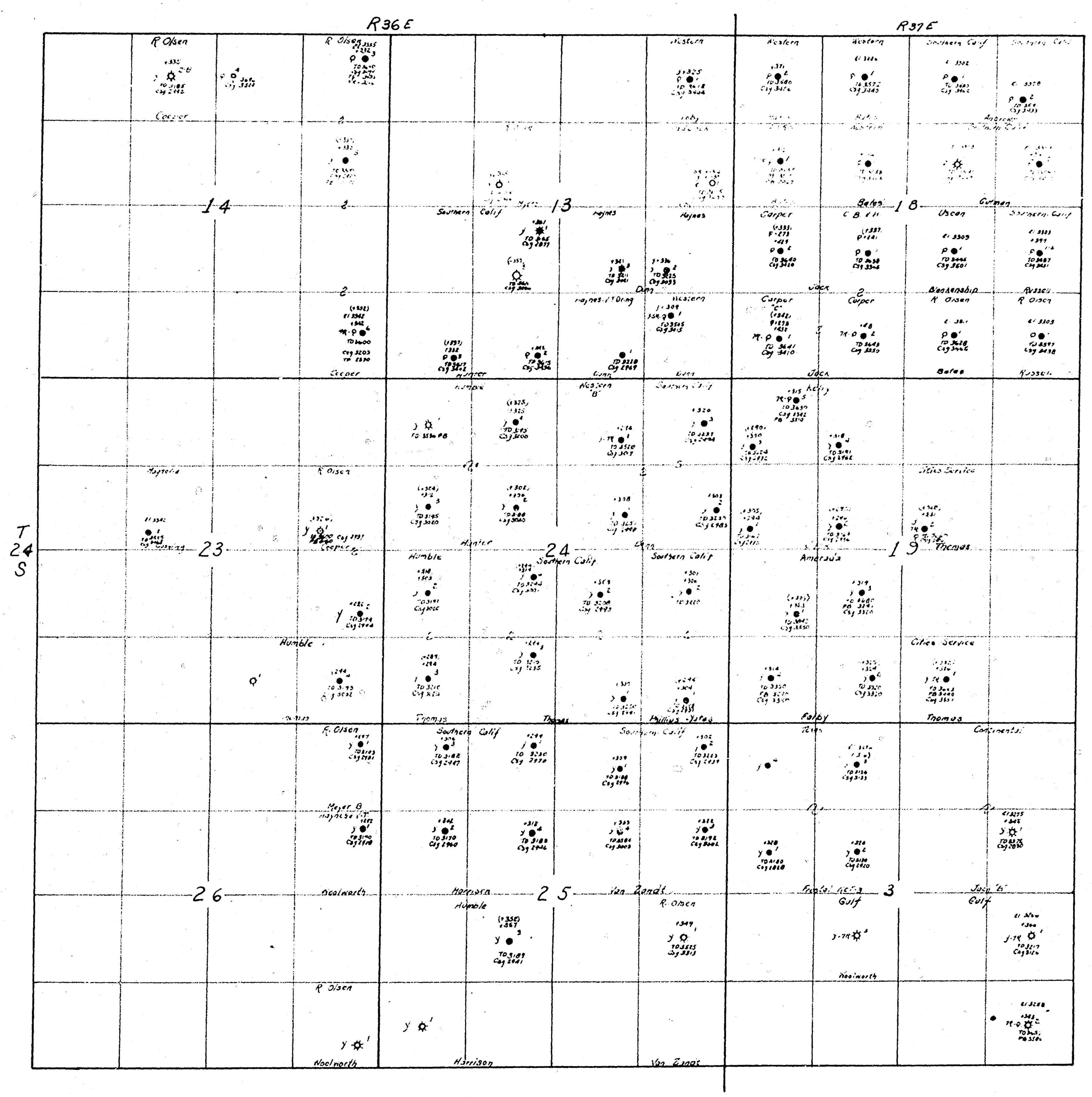
Completion Data
Accumulated Production

EXHIBIT NO. 3



FALBY POOL

LEGEND
June 1953 Oil Production
Green - 1000 bbls/month or more
Blue - 500 to 1000 bbls/month
Uncolored - Less than 500 bbls/month


R36E
R37E
T
24
S
14
13
18
23
24
19
26
25
3
R Olsen
Southern Calif
Humble
Amerada
Cities Service
Thomas
Falby
Continental
Harrison
Van Zandt
Woolworth
Gulf

FALBY POOL

WEST KUTZ PICTURED CLIFFS EXTENSIONS

State of New Mexico, County of SAN JUAN
Range 13W

State of New Mexico, County of
Range 12W

State of New Mexico, County of
Range 11W

State of New Mexico, County of SAN JUAN
Range 10W

Township 27N

Township 26N

Township

Township

Township

Township

65

ADVOCATE FORM 33

PRINTED AND FOR SALE BY THE ARTESIA ADVOCATE, ARTESIA, NEW MEXICO

ADVOCATE FORM 33

PRINTED AND FOR SALE BY THE ARTESIA ADVOCATE, ARTESIA, NEW MEXICO

Existing Pools

RECOMMENDED EXTENTIONS.

T. R. C. E. O. CO.
State "A" Accts. 1, 2 & 3
Lea Co., N.M.
Contour Datum: 700 Feet
Contour Interval: 25'
1-14-38
J. E. Bagwell

R 35 E

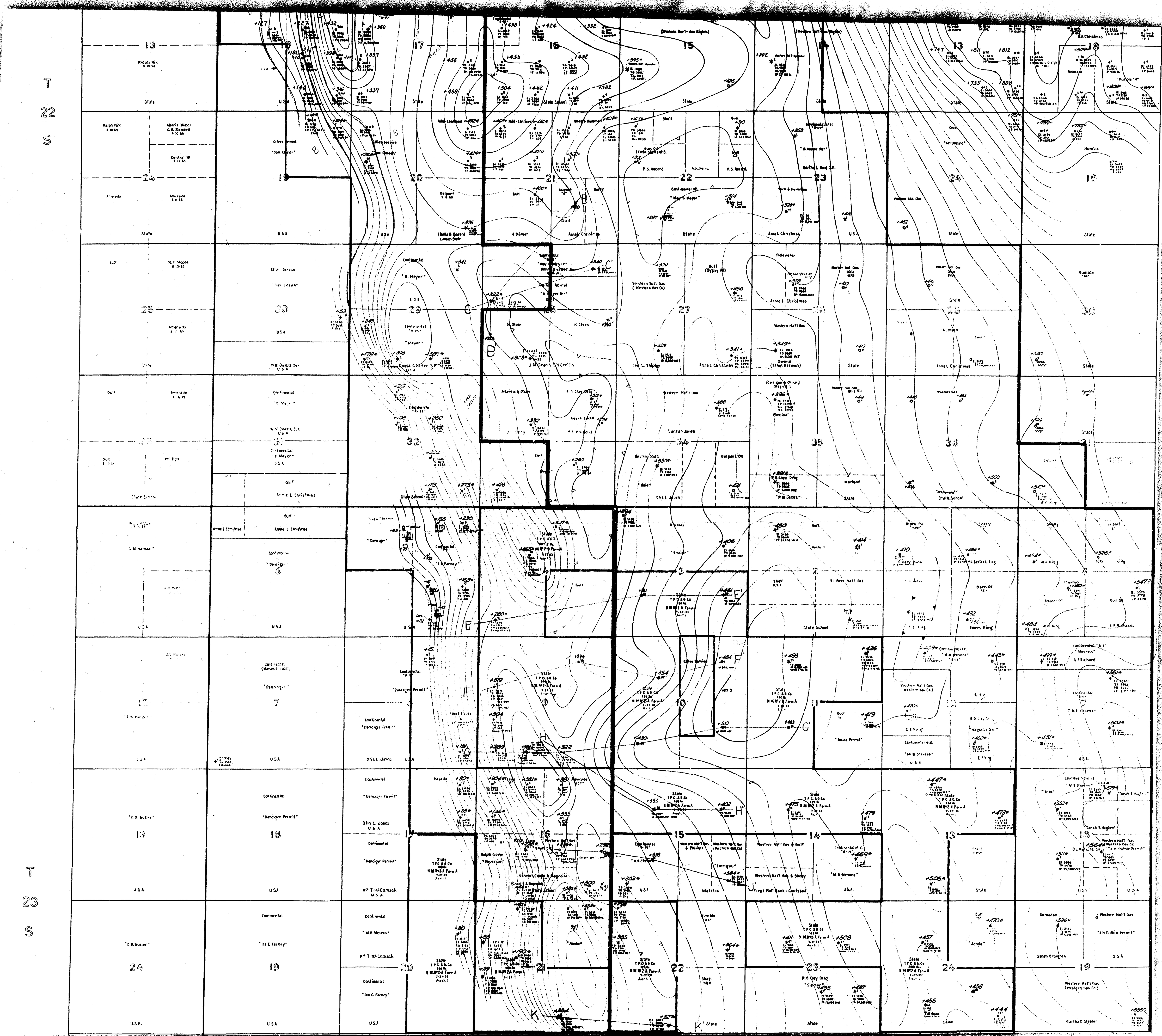
R 36 E

R 37 E

T 21 S

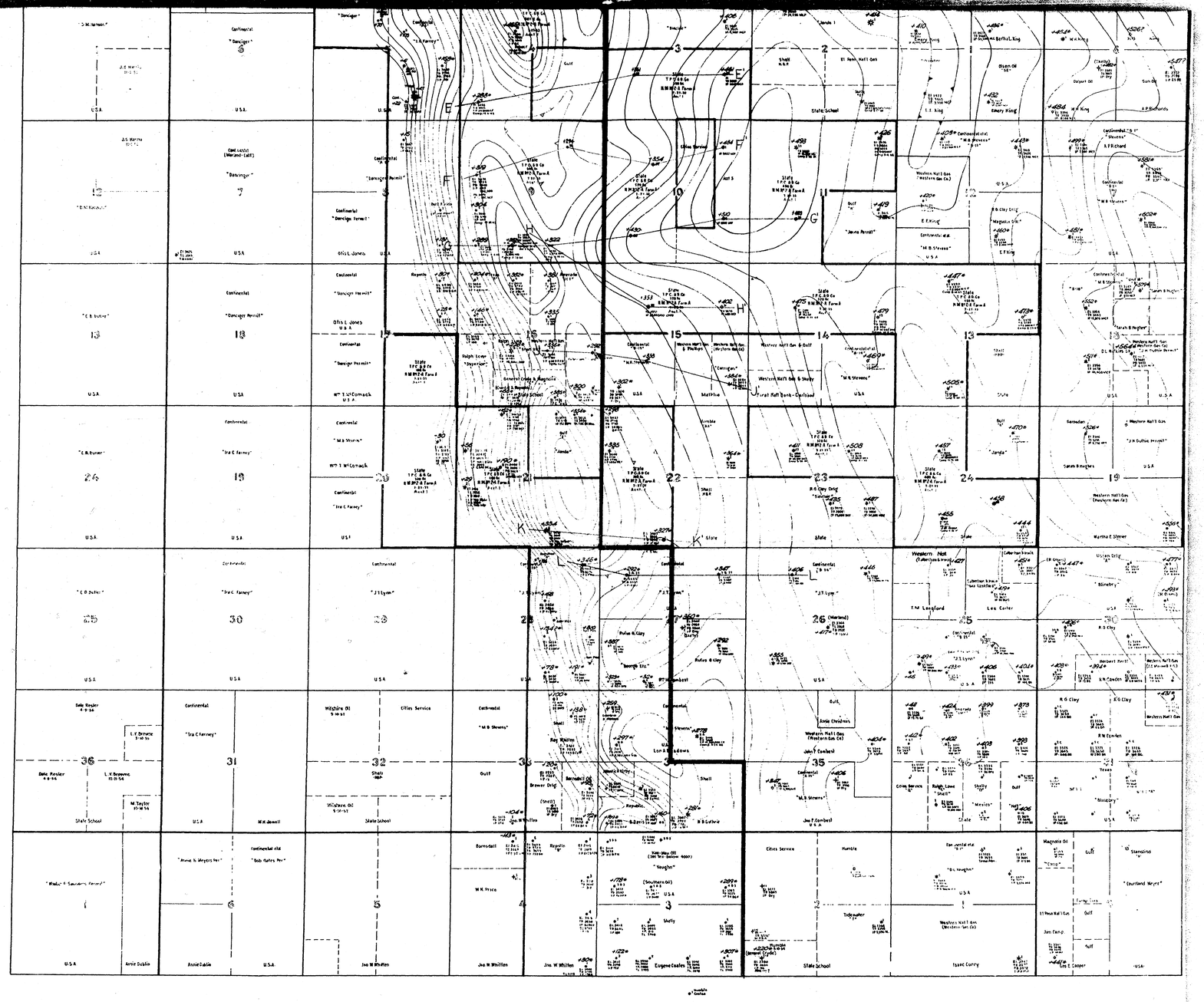
T 22 S

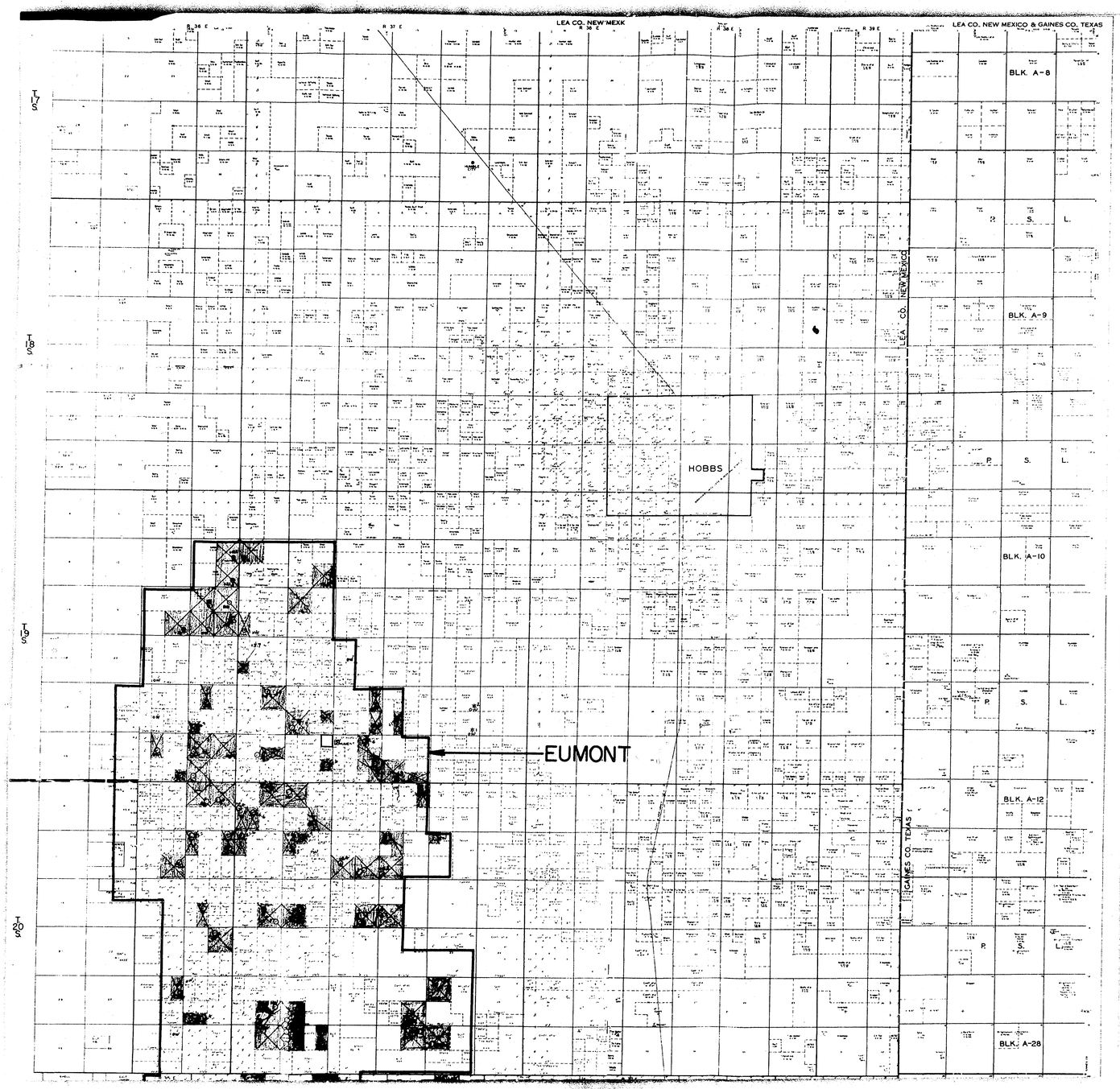
66



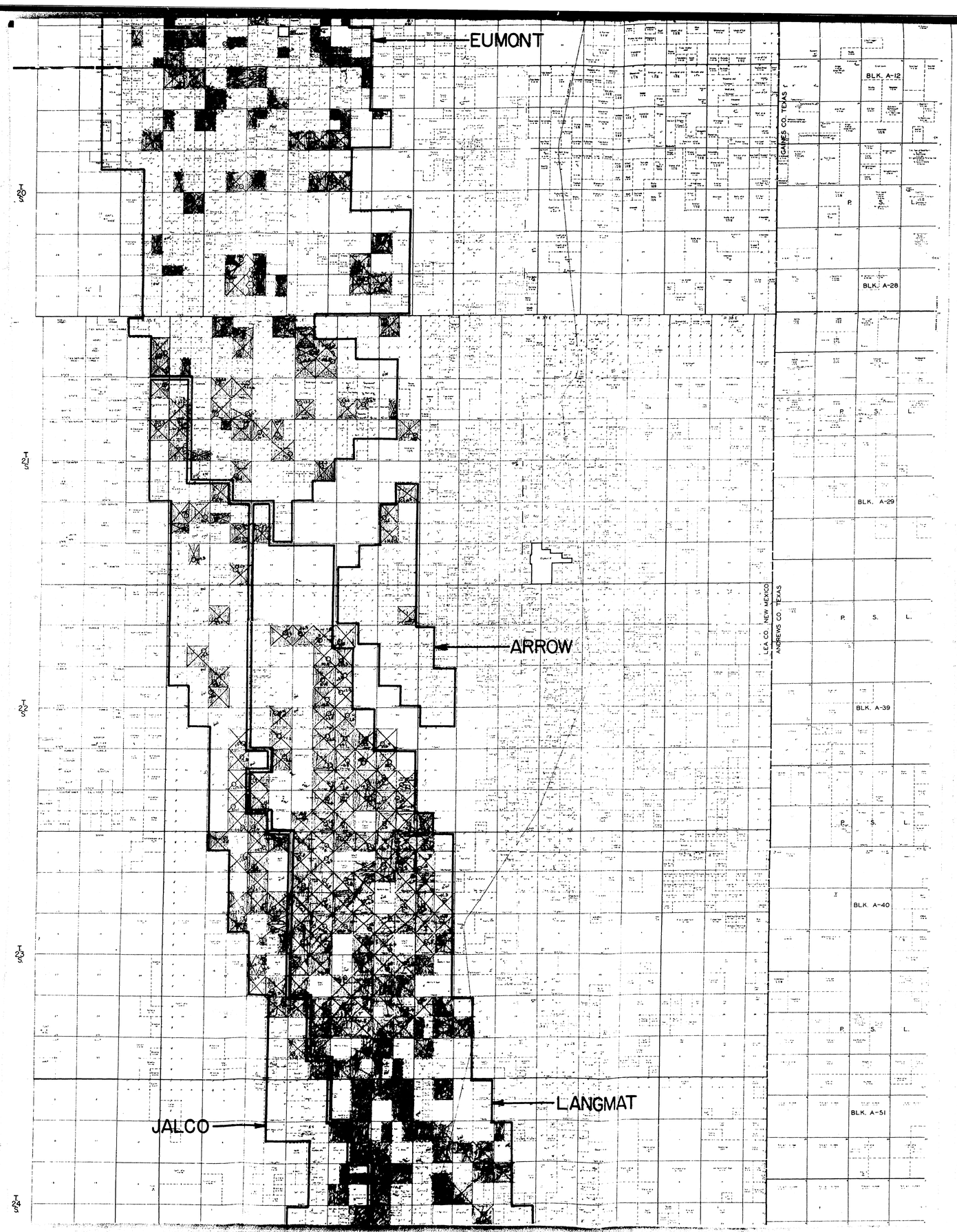
T 22 S
T 23 S
Ralph Nix
Morris Mizel
Central Nl
Amerada
State
U.S.A.
Cities Service
"Tom Clinson"
Continental
"B. Meyer"
Gulf
Annie L. Christmas
Western Nat'l Gas Rights
Western Nat'l Gas
Shell
Sun
Mid-Continent
State School
Delport
H.S. Record
Bertha L. King
Tidewater
Ohio
"McDonald"
Humble
B.A. Christmas
Anna L. Christmas
R. Olsen
Curran Jones
Otis L. Jones
"Danciger"
"Danciger Permit"
"Ira C. Farney"
"C.B. Butler"
Wm. T. McComack
State T.P.C. & Co. N.M. 112-A Form A
"M.B. Stevens"
Western Nat'l Gas & Gulf
First Nat'l Bank - Carlsbad
Ralph Lowe "Superior"
General Crude & Magnolia
Emery King
E.F. King
W.H. King
A.P. Richards
Sarah B. Hughes
"J.H. Dufhie Permit"
Western Nat'l Gas (Western Gas Co.)
Martha E. Steeler
Gameden
R.G. Clay Drlg.
"Sinclair"
"Janda"

67


T 23 S
T 24 S
R 35 E
R 36 E
R 37 E
Scale 4"=1 Mile


LEA CO. NEW MEXK
R 36 E
R 37 E
R 38 E
R 39 E
T 17 S
T 18 S
T 19 S
T 20 S
HOBBS
EUMONT
LEA CO. NEW MEXICO & GAINES CO. TEXAS
BLK. A-8
BLK. A-9
BLK. A-10
BLK. A-12
BLK. A-28
LEA CO. NEW MEXICO
GAINES CO. TEXAS
S.
L.
P.
R.

69


EUMONT
ARROW
LANGMAT
JALCO
GAINES CO. TEXAS
LEA CO. NEW MEXICO
ANDREWS CO. TEXAS
BLK. A-12
BLK. A-28
BLK. A-29
BLK. A-39
BLK. A-40
BLK. A-51
P.
S.
L.
T 20 S
T 21 S
T 22 S
T 23 S
T 24 S

70

71

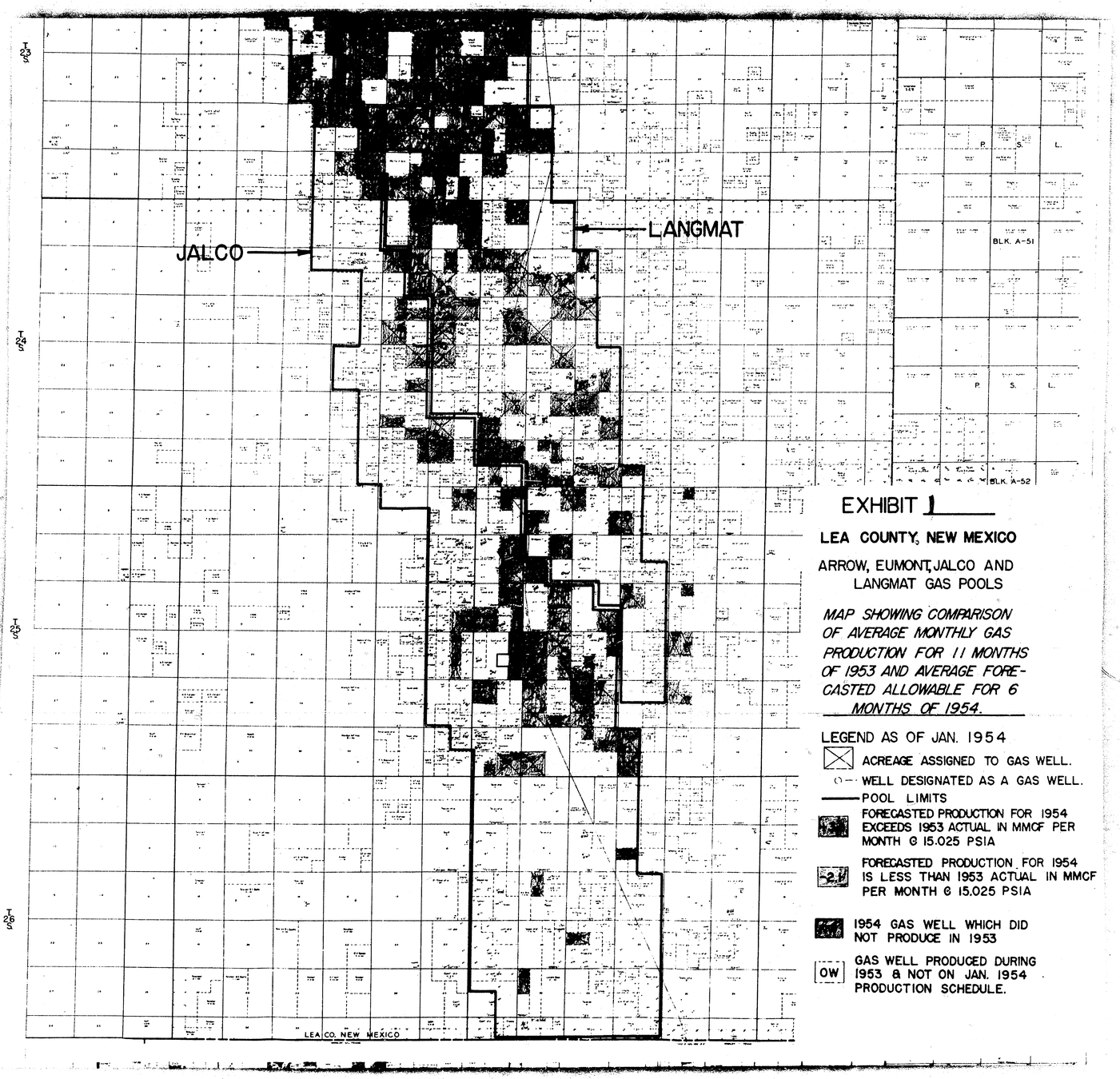


EXHIBIT 1

LEA COUNTY, NEW MEXICO

ARROW, EUMONT, JALCO AND LANGMAT GAS POOLS

MAP SHOWING COMPARISON OF AVERAGE MONTHLY GAS PRODUCTION FOR 11 MONTHS OF 1953 AND AVERAGE FORECASTED ALLOWABLE FOR 6 MONTHS OF 1954.

LEGEND AS OF JAN. 1954

- ACREAGE ASSIGNED TO GAS WELL.
- WELL DESIGNATED AS A GAS WELL.
- POOL LIMITS
- FORECASTED PRODUCTION FOR 1954 EXCEEDS 1953 ACTUAL IN MMCF PER MONTH @ 15.025 PSIA
- -2.1 FORECASTED PRODUCTION FOR 1954 IS LESS THAN 1953 ACTUAL IN MMCF PER MONTH @ 15.025 PSIA
- 1954 GAS WELL WHICH DID NOT PRODUCE IN 1953
- OW GAS WELL PRODUCED DURING 1953 & NOT ON JAN. 1954 PRODUCTION SCHEDULE.

1953 Gas Fund

1953 Gas Fund

72

HOBBS

EUMONT

LEA CO. NEW MEXICO

GAINES CO. TEXAS

T 21 S

BLK. A-9

BLK. A-10

BLK. A-12

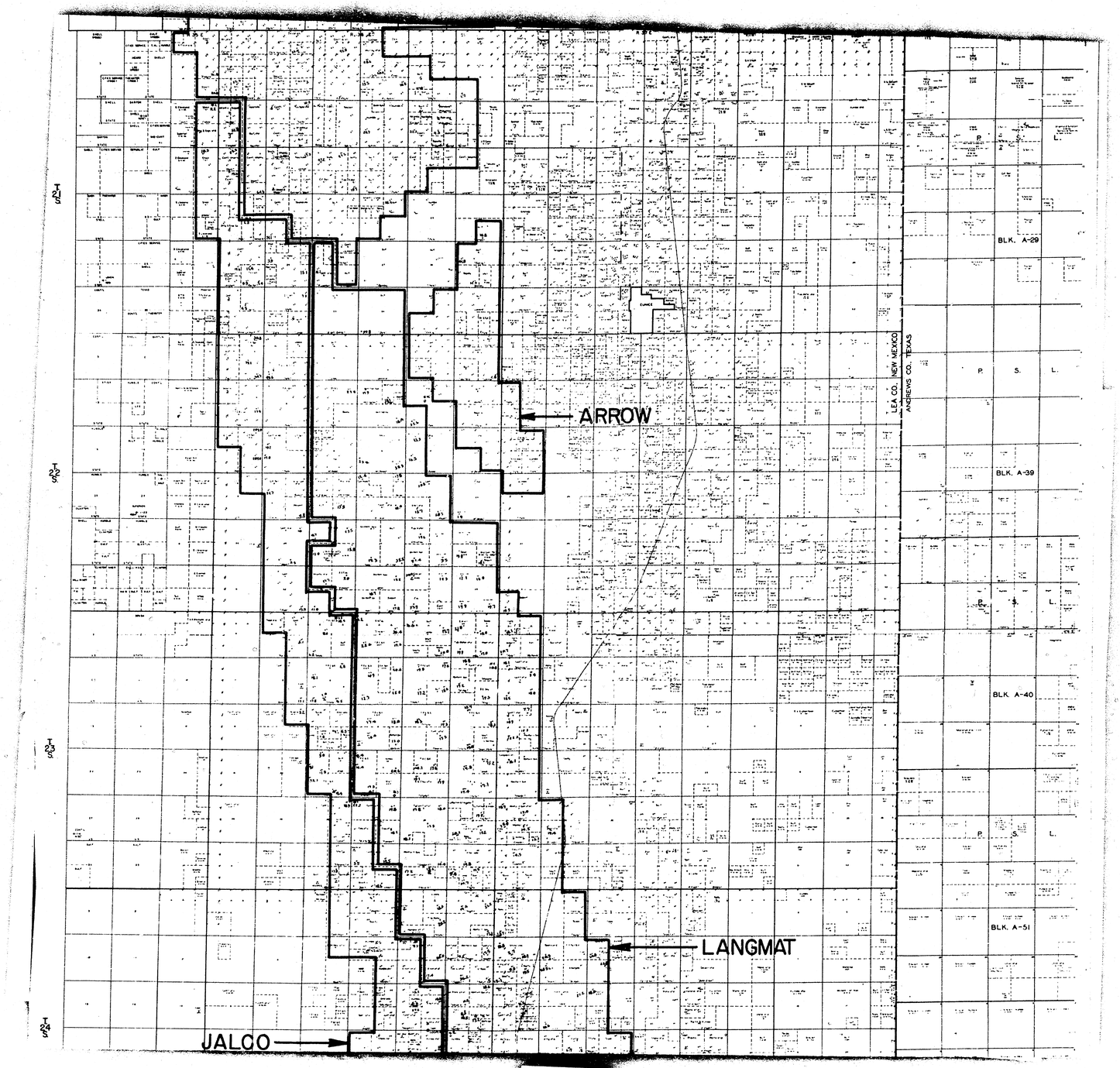
BLK. A-28

BLK. A-29

P.

S.

L.


T 22 S
T 23 S
T 24 S
ARROW
LANGMAT
JALCO
LEA CO. NEW MEXICO
ANDREWS CO. TEXAS
BLK. A-29
BLK. A-39
BLK. A-40
BLK. A-51
P.
S.
L.

73

74

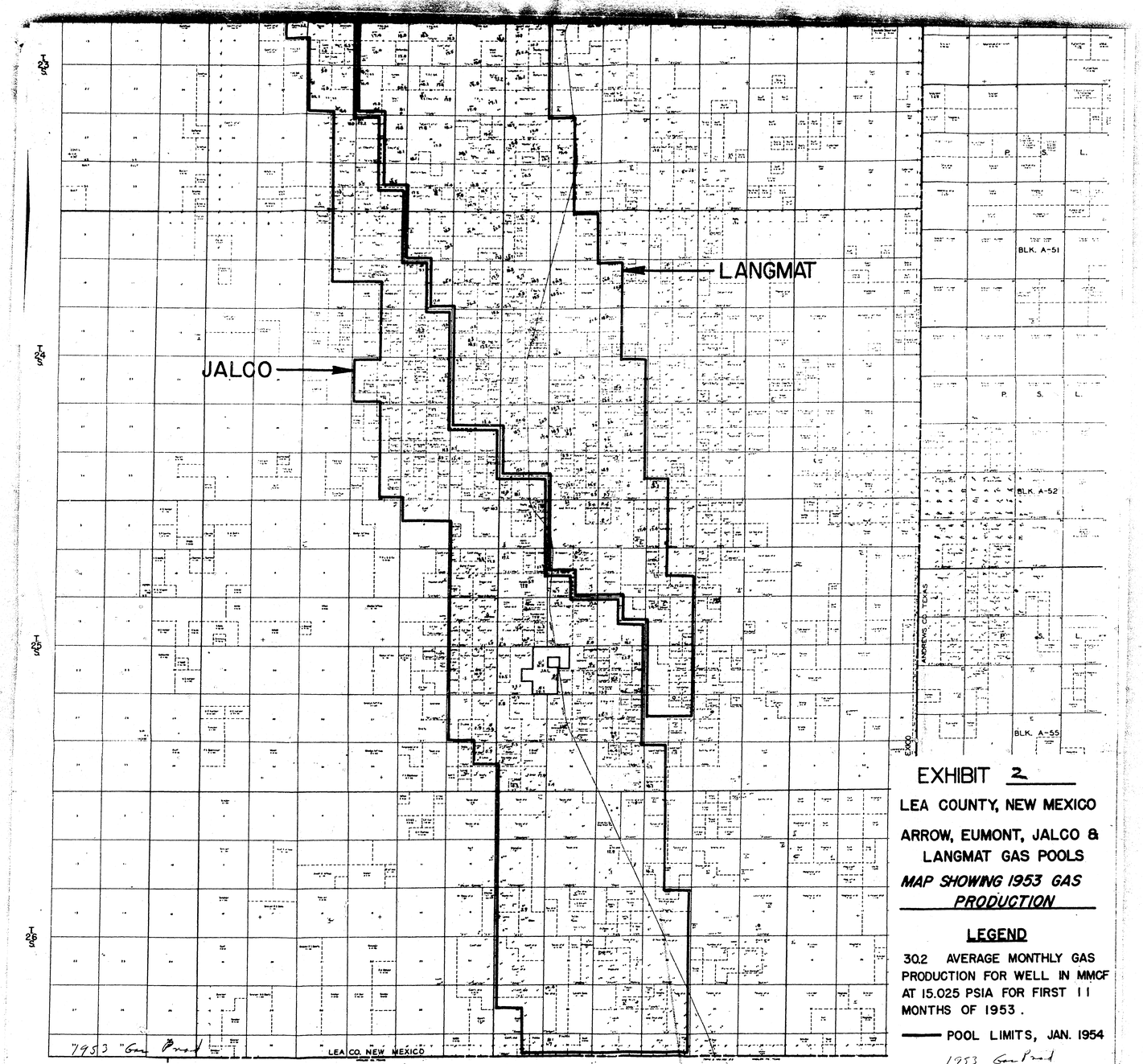


EXHIBIT 2

LEA COUNTY, NEW MEXICO

ARROW, EUMONT, JALCO & LANGMAT GAS POOLS

MAP SHOWING 1953 GAS PRODUCTION

LEGEND

30.2 AVERAGE MONTHLY GAS PRODUCTION FOR WELL IN MMCF AT 15.025 PSIA FOR FIRST 11 MONTHS OF 1953.

—— POOL LIMITS, JAN. 1954

1953 Gas Prod

Pipeline Comm

T 17 S

T 18 S

T 19 S

T 20 S

T 21 S

HOBBS

EUMONT

R 35 E

R 37 E

R 38 E

LEA CO. NEW MEXICO

GAINES CO. TEXAS

CO. NEW MEXICO

LEWIS CO. TEXAS

BLK. A-8

BLK. A-9

BLK. A-10

BLK. A-12

BLK. A-28

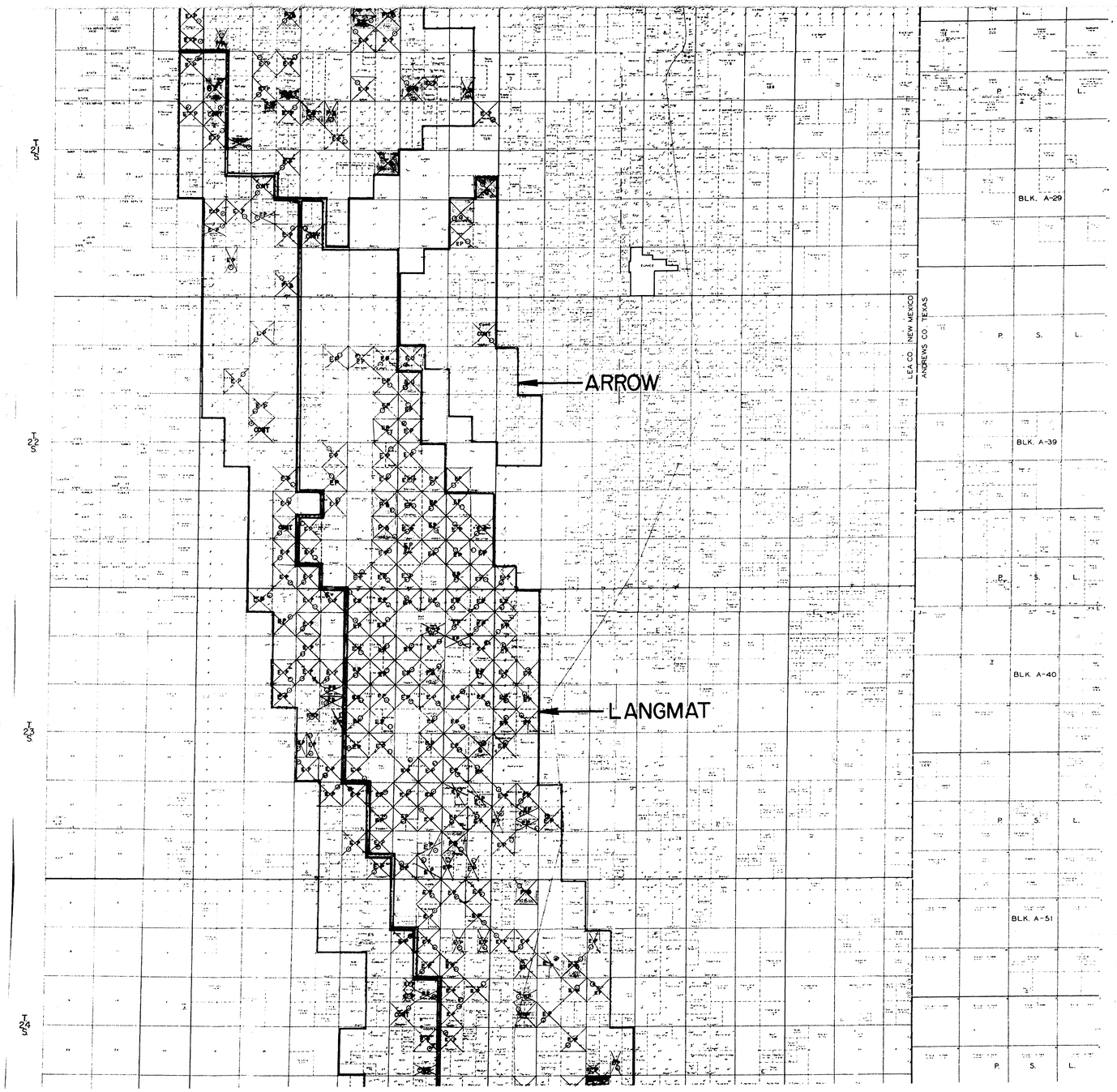
BLK. A-29

P.

S.

L.

76


ARROW
LANGMAT
T 23 S
T 24 S
LEA CO. NEW MEXICO
ANDREWS CO. TEXAS
BLK. A-29
BLK. A-39
BLK. A-40
BLK. A-51
P.
S.
L.

77

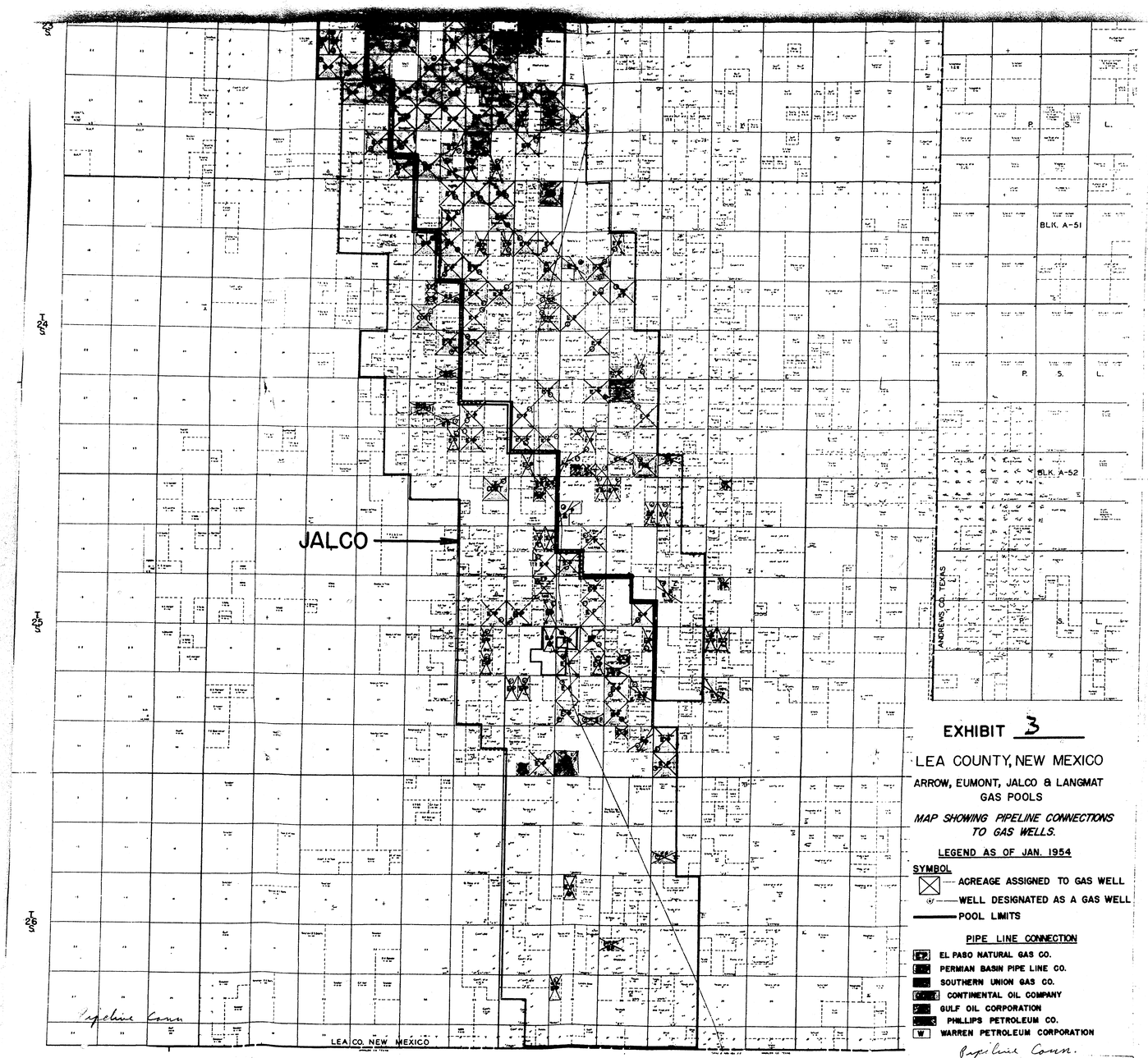


EXHIBIT 3

LEA COUNTY, NEW MEXICO

ARROW, EUMONT, JALCO & LANGMAT GAS POOLS

MAP SHOWING PIPELINE CONNECTIONS TO GAS WELLS.

LEGEND AS OF JAN. 1954

SYMBOL

- ACREAGE ASSIGNED TO GAS WELL
- WELL DESIGNATED AS A GAS WELL
- POOL LIMITS

PIPE LINE CONNECTION

- EP — EL PASO NATURAL GAS CO.
- PB — PERMIAN BASIN PIPE LINE CO.
- SU — SOUTHERN UNION GAS CO.
- CO — CONTINENTAL OIL COMPANY
- G — GULF OIL CORPORATION
- P — PHILLIPS PETROLEUM CO.
- W — WARREN PETROLEUM CORPORATION

Pipeline Comm.

78

1953 Dry Gas Production – MCF ①
Eumont Pool

Company	Lease	Well #	S-T-R	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
[illegible]	[illegible]	[illegible]	3-21-36	[illegible]	18288	20430	8784	19454	23639	27,287	24,334	[illegible]	21580	25368	18364	466549 ✓
	[illegible]			Rec. as gas well 4-6-53											1108	1108 ✓ P
	[illegible]		[illegible]	[illegible]	31261	48717	33847	17763	26622	19229	24,263	[illegible]	[illegible]	38750	25780	463919 ✓
	[illegible]			Rec. as gas well 12-4-53											3697	3697 P
	[illegible]	D		" " Dual 11-14-53											—	— P
	[illegible]	D		Not produced										—	1335	1335 P
	[illegible]	D		Rec as dual 11-6-53										—	—	—
	[illegible]	D		" " 11-13-53											—	—
	[illegible]	D		Rec as dual 11-19-53											—	—
	[illegible]			Rec as gas well 3-28-53								—	—	—	—	—
	[illegible]		[illegible]	[illegible]	37394	46898	42394	48039	43358	56021	53,945	[illegible]	20479	11811	12044	[illegible]
	[illegible]	D		Dual Comp 12-29-53											—	—
	[illegible]	D		" 4-10-53								—	—	—	—	—
[illegible]	[illegible]			Comp 4-22-53 Conn 8-5-53						—	35745	18178	19637	20580	14115	127655 SW
	[illegible]			Comp 9-9-53									15737	[illegible]	15654	44456 SU
	[illegible]			Comp 9-24-53											—	— P
[illegible]	[illegible]		[illegible]	[illegible]	3395	3575	[illegible]	3064	[illegible]	16895	[illegible]	[illegible]	11279	9030	7460	[illegible]
[illegible]	[illegible]		[illegible]	60467	69662	20531		16236	32603	42796	54404	35400	[illegible]	64950	[illegible]	[illegible]
	[illegible]			Rec. as gas well 9-14-53											—	— P
	[illegible]	D	2-21-36	Dual Comp. 12-1-53											—	— P
	[illegible]		[illegible]		21319	23185	[illegible]	24393	[illegible]	25573	24936	21933	20410	20199	[illegible]	251862
	[illegible]		[illegible]	54554	49228	50644	50572	56042	54348	56580	56,556	53985	110706	55504	[illegible]	[illegible]
	[illegible]		[illegible]	45051	23570	24839	22568	[illegible]	12155	8571	8573	24057	21728	25280	[illegible]	[illegible]
[illegible]	[illegible]		[illegible]	24695	20862	24056	21995	24126	23922	24599	21656	23276	22818	23262	[illegible]	277645
	[illegible]		[illegible]	6174	5216	6014	5499	6032	5980	6150	5414	5819	5705	5815	[illegible]	[illegible]
	[illegible]		[illegible]	3055	2323	3237	3705	4035	3926	1913	2115	3559	2958	2871	[illegible]	[illegible]
[illegible]	[illegible]	D	[illegible]	Dually Comp 9-13-53				—	—	—	—	—	—	—	—	— P
	[illegible]		[illegible]	Rec as gas well 11-7-53				—	—	—	—	—	—	—	—	— P
[illegible]	[illegible]		[illegible]	4214			[illegible]	5852	5239	5510	9564	5070	4835	6230	8186	38577 C
	[illegible]		[illegible]	[illegible]				27772	5598	644	2280	2611	1865	961	1319	43050 EP
	[illegible]		[illegible]					9919	15001	14583	26661	26466	10192	15448	5950	[illegible]
	[illegible]		[illegible]	20941	32695	23796	21594	23388	25003	34484	27615	115918	34370	29681	17564	[illegible]
	[illegible]		[illegible]	3457 / 11666	5158 / 7295	5251 / 4210	12624 / 20578	7461 / 12485	4813 / 33318	3658 / 20473	3706 / 14,129	4852 / 37590	2419 / 34920	2372 / 32479	58427	[illegible]
	[illegible]		[illegible]	66442	53316	72049	70588	62438	73452	62116	60872	55756	72271	64304	[illegible]	768133
	[illegible]		[illegible]	Dually Comp 7-21-53											5418	5412 EP
	[illegible]		[illegible]	Rec as gas well 12-3-53										—	—	— EP
	[illegible]		[illegible]	63892	65127	[illegible]	66167	75169	77114	83226	66,303	80357	78819	67174	[illegible]	854977

1953 Dry Gas Production ②
Eumont Pool

Company	Lease	Well #	S-T-R	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Continental (Cont'd)	Meyer B-6	4-B D	8-21-36		Dually Comp 8-18-53			✓	✓	✓	✓	✓	—	8902	37232	46134 EP
	Meyer B-[illegible]	1-L	26-20-37		Rec as gas well 9-3-53										—	EP
	Sanderson A-11	1-I B	11-21-36	30955	—	—	54863	50476	42095	48687	43,213	36272	37513	25681	33886	438641
	State A-19	1-L B	9-19-37	1098	—	—	3505	2166	606	841	3294	6171	457	402	414	18954
	State A-11	1-L B	11-21-36		27880	25115	26718	27543	16247	6378	7200	33666	20848	40496	28887	255917
El Paso Natl	Shell St.	1-H	3-20-37	2045	1150	0	26328	37698	33284	14,445	18,322	22179	14818	5766	1174	[illegible]
Fidler, Bert	Jones [illegible]	2-C	34-20-37	39931	24069	26423		22169	20127	16,786	10,849	24619	24862	24106	25266	259304
Great Western Prod.	Bondurant	1-B	33-19-37	1515	19990	24077	24071	26119	26312	26,300	24,604	26506	25,401	25567	24224	274686
Gulf Oil Corp	C.R. Bell	2-P B	8-21-36	215	200	215	175	25	25	20	20	20	175	190	195	1475
	Leonard A	3-B	22-21-36	55143	16369	37733	21102	21505	18315	30074	31,086	24587	20777	3159	14520	294440
	Orcutt B	1-6	5-21-36	76641	37443	45634	37716	41347	10074	—	—	—	—	—	—	248855
	Ramsey B	1-M	29-20-37	99076	75642	87163	71010	74552	69121	66883	63036	1479	70821	78707	70150	827640
Humble O & Rfg Co.	Atkins	4-L	10-21-36	—	—	—	No Report	—	6511	33949	34162	31993	11550	53876	62065	234106
	[illegible]	1-N	25-20-36	SH	—	—	[illegible]	87706	87706	[illegible]	34,551	10919	20223	13827	28004	144416
	State Aggie	7-B	31-20-37	SH	SH	SH	SH	SH	SH	[illegible]	—	—	—	—	—	—
	State 7	1-K	17-20-37	SH	SH	76	—	—	—	—	—	5846	20151	36425	24535	87757
Kelly, John M.	Houston [illegible]	1-P	3-19-37	No Report	No Report	No Report	No Report	No Report	9426	3187	3321	5612	30401	36542	4418	92917
	Cal. State 7	1-B	1-21-36	"	"	"	"	"	No Report	No Report	No Report	No Report	No Report	No Report	No Report	—
	Kelly State	1-7	13-19-36	"	"	"	"	"								
	Phillips State	1-P	12-19-36	"	"	2404	43916	7705	7403	6794	3406	8080	18,433	4967	44393	147501
[illegible]	Wallace A	2-L	3-21-36	—	—	[illegible]	27976	26362	30692	31141	19348	29119	29422	24,387	[illegible]	[illegible]
	"	3-N	3-21-36	60928	50571	[illegible]	23165	23181	24745	14748	11334	20928	13024	21554	27975	[illegible]
Roberts [illegible]	Gillespie [illegible]	1-0	34-19-37	11705	9631	16346	10832	9699	26254	16493	12,721	11472	13421	13582	15666	[illegible]
	William	2-N	34-19-37	13978	13495	14408	11094	9258	21626	25356	22,322	19793	17033	17131	15225	195719
Ohio Oil Co	Barber	11-B	5-20-37	No Report	29351	No Report										24351
Pacific Western	State B	1-4	34-20-37	9559	24012	26221	21455	17833	14440	11435	9030	8263	15067	16469	22204	[illegible]
Phillips Pet Co	Bern A	1-P	14-19-36	No Report	[illegible]	[illegible]	—	—	—	—	2602	80	2696	3011	16435	24741
	Monument	1-H	17-19-36								2703	14693	16271	18427	8670	[illegible]

1953 Dry Gas Production
Eumont Pool

Company	Lease	Well #	S-T-R	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Phillips Pet Co	Neal	2-H	26-20-36	91802	81216	45606	-0-		-0-	9802	87,288	79223	80152	75676	[illegible]	[illegible]
Schermerhorn Oil Corp	Christmas	1-D	11-20-37			Comp in 12-53										
Shell Oil Co	State	1-G	20-21-36	[illegible]	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	[illegible]	[illegible]
	State	1-E	7-19-37													
	State A	1-P	35-19-36	SH	✓	✓	✓	20765	2067	1869	2101	5359	[illegible]	[illegible]	[illegible]	[illegible]
	State 3	1-E	36-19-36	SH	✓	✓	✓	—	—	—	—	—	20373	[illegible]	[illegible]	[illegible]
	State 7	1-I	29-19-37	SH	✓	✓	✓	✓	—	100	563	174	333	[illegible]	[illegible]	[illegible]
	State [illegible]	2-X	1-21-35	SH	✓	✓	✓	✓	[illegible]	15603	1143	1137	[illegible]	[illegible]	[illegible]	[illegible]
	State M	4-P	1-21-35	SH	✓	[illegible]	✓		—	✓	✓	✓	6960	223,8	[illegible]	[illegible]
Sinclair Oil & Gas Co.	Baker	7-E	8-20-37	46399	[illegible]	61496	No Report	[illegible]	50822	[illegible]	30151	39174	15,217	100583	[illegible]	[illegible]
Skelly Oil Co	Christmas	1-M	25-19-36	[illegible]	7623	[illegible]	9014	[illegible]	1194	2592	1186	2297	9052	7854	[illegible]	[illegible]
	[illegible]	2-I	12-19-36	24481	19506	46237	64585	53855	26614	24670	21812	22274	41993	27479	[illegible]	[illegible]
	"	4-H	13-19-36	"	57296	"	—	—								[illegible]
	"	5-H	[illegible]	No Report												
	State C	1-X B	20-20-37	19125	29228	24112	21258	27717	31574	-0-	22001	14929	15617	22977	[illegible]	[illegible]
	State E	5-5	16-21-36	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH		
	"	7-E	16-21-36	69446	83571	66183	74032	42476	14471	26461	19820	19869	40751	62071	[illegible]	[illegible]
	[illegible]	9-E	9-20-37	17775	26172	23836	26258	26141	21831	21493	23,125	16313	22455	[illegible]	[illegible]	[illegible]
	"	10-D	9-20-37	22135	27299	28232	26296	28004	32187	31611	[illegible]	29236	[illegible]	[illegible]	[illegible]	[illegible]
[illegible] Gas Co	Williams	1-B	33-19-37	10061	6681	5600	11165	8050	6562	6194	5526	6178	8192	1315	[illegible]	[illegible]
	"	2-7	33-19-37	6458	4812	4724	4151	9340	4543	4153	4600	4206	1431	—	[illegible]	[illegible]
Standard	[illegible]	4-C	16-20-36	[illegible]	✓	✓	✓	—	✓	✓	✓	✓	✓	—	[illegible]	[illegible]
Sun Oil Co	[illegible]	1-L	3-21-36	[illegible]	43568	14719	[illegible]	7840	4404	5049	1497	3166	4914	1259	[illegible]	[illegible]
	"	4-5	3-21-36	33798	20241	12026	22885	3314	18935	15567	1031	6594	6616	26760	[illegible]	[illegible]
Sunray Oil Corp	Cooper	3-A / 4-4	7-20-37 / 13-20-36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
The Texas Co.	Phillips	1-D	10-20-37												[illegible]	[illegible]
	Bickel	1-H	12-21-36												[illegible]	[illegible]

1953 Dry Gas Production ④
Eumont Pool

Company	Lease	Well #	S-T-R	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
[illegible]	Coleman	3-H	17-21-36	29709	21348	22639	18461	25177	22410	21921	3766	1141	5093	17823	[illegible]	216956
	Marshall B	1-H	13-21-36	[illegible]	4464	12164	10715	6611	2270	—	—	—	25	28	7591	43868
	State H	4-H	2-21-36	SH	SH	12252	43257	13977	8197	4240	1404	2439	6692	137	32350	123942
	State J	3-7	17-19-37	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	14678	11553	26231
	" K	1-K	13-20-36	4535	15222	27809	27868	6610	3813	3115	1623	1312	4789	146	12754	[illegible]
	" E	2-P	16-21-36	SH	18389	28902	98917	48866	8678	4010	1476	4537	8354	25191	59660	[illegible]
Two States	McQuatters	1-J	11-21-36	[illegible]	1156	988	—	—	5015	2848	11064	4166	3321	18878	[illegible]	64158
Warren Pet Co.	Evans State	3-J	3-21-36	No Report											5612	5612
	Hendley State	7-B	5-21-36	No Connection												—
Totals				1653074	1280531	1393361	1355258	3179723	1293910	1116135	1771188	1252317	1459071	1555272	1923357	16763443

Jalco Pool

Company	Lease	Well #	S-T-R	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Amerada Pet Co	State JCD	1-B	16-23-36	—	—	—	—	—	—	—	—	—	—	—	—	—
	"	2-G	16-23-36	—	—	—	—	—	—	—	—	—	—	—	20078	20078
American Republics	Brady A	1-O	29-23-37	13505	12177	13229	15303	19448	11023	11558	11329	10062	10136	11490	[illegible]	[illegible]
	" B	2-H	32-25-37	4127	24077	25794	10158	14456	9512	1421	1224	3316	1883	19062	[illegible]	116511
Argo Oil Co	[illegible]	1-4	24-25-37	12939	15031	5275	8552	16530	9727	9310	8537	13363	11660	9064	[illegible]	[illegible]
[illegible]	[illegible]	1-B	30-23-36			4256	6286	3861	4992	4850	4166	3721	3711	3479	3234	[illegible]
	[illegible]	1-9	[illegible]	11971	10744	13991	9099	16422	9370	8469	8041	10168	12182	11035	[illegible]	[illegible]
	[illegible] A-8	2-P	8-23-36	17920	8996	14614	9432	13978	18649	14,236	13,262	10196	5545	17768	2117	148682
	[illegible] A-5	2-5	5-23-36	—	—	—	29966	8735	16363	—	1218	—	144	32	1693	58151
	[illegible]	1-H	30-21-36	—	—	—	—	—	—	—	—	—	—	—	13109	13109
	" "	5-K	30-21-36	7578	18431	19429	11071	19930	19557	11521	17778	16900	17676	11665	8083	179677
	"	6-7	30-21-36	—	—	—	—	—	—	—	—			—		
	[illegible] A-17	1-P	[illegible]	29079	13772	54370	32062	23307	20980	23966	4739	5012	11915	18963	6492	220847
	[illegible] B-8	3-B	[illegible]	16251	13035	20285	19625	16321	21671	18476	25849	23282	20961	19618	22030	[illegible]
	[illegible] B-3	5-H	[illegible]	32232	34378	19265	23385	4941	17147	27160	6160	5272	5518	27273	15424	[illegible]
	[illegible]	[illegible]	[illegible]	2260	4326	4398	4951	7998	3812	2094	5479	6159	5685	6748	6115	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	17119	9289	9144	13298	11060	7846	7158	4294	1299	2853	32	[illegible]

1953 Dry Gas Production ⑤
Jalco Pool

Company	Lease	Well #	S-T-R	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Continental Oil	Meyer B-6	7-C	11-21-36	23669	18976	18380	—	24082	23345	37837	37,233	33324	20469	24326	8408	[illegible]
	B-33	1-M	33-22-36	57546	61141	8904	999	4285	10429	34092	11198	7810	11570	23475	37676	[illegible]
	Shelton A-13	3-P	13-22-36	2017	—	1971	1925	1836	1552	2098	2141	1901	1832	1892	1865	[illegible]
	" B-30	2-K	[illegible]	7264	6541	6301	6648	[illegible]	3633	5842	6503	4522	5068	2091	1818	65537
	State A-34	2-D	34-22-36	—	—	—		—	No Report						—	—
	"	3-P		27553	—	18563	71195	54673	952	2836	74	1885	1569	17555	40993	[illegible]
	" [illegible]	5-M	20-21-36	32202	24513	[illegible]	31431	35187	28948	56125	30696	26551	25248	27668	[illegible]	367896
	" E-17	4-E	17-22-36	27881	25401	24761	15677	25638	11923	24356	7842	1275	2502	245	2736	[illegible]
	" E-17	5-L	17-22-36	18195	13847	14115	12240	12853	16785	15829	17813	22211	22994	20497	13983	[illegible]
	[illegible] A-34	1-E	34-22-36	4106	3306	3317	3104	4240	4061	4268	3793	3609	2959	1117	4058	[illegible]
	Vaughn A-14	6-K	14-24-36	40485	30527	37424	35709	36562	34,330	28,584	29,215	14199	9589	6941	4881	[illegible]
	Wells B-1	1-A B	1-25-36	9677	10588	15555	14918	16250	8235	10379	5791	8805	9530	8038	2516	[illegible]
	Shoules A-19	1-L	19-25-37	31189	22905	34532	2165	18896	11085	28604	[illegible]	10188	29146	10902	15975	[illegible]
	Shoules B-19	1-N	19-25-37	22272	13005	10577	2515	25613	19491	29381	13914	[illegible]	21950	7824	14887	[illegible]
Cullather & [illegible]	[illegible]	1-B	18-25-37													
[illegible] Oil Corp	Harrison	1-G	7-25-37												2239	2239
	[illegible]	1-P	20-25-36	4175	5318	4202	5077	5399	4465	3597	5124	983	—	10917	16125	[illegible]
	[illegible]	1-C	18-25-37	32389	46574	21876	18462	32356	12517	374	1355	3951	12958	19204	37860	[illegible]
	" C	1-J	7-25-37						8415	24492	14,668	1117	1729	14090	34295	97906
El Paso Natl	[illegible]	1-M	10-26-37	No Report	—				—	8194	6334	4284	27379	32758	43876	124825
	[illegible]	1-J	17-25-37	13297	9441	3366	7326	5372	3011	3332	4486	717	3182	1309	336	55165
	[illegible]	1-B	[illegible]	22285	20482	24829	21255	25556	11536	9335	11329	19798	7224	6388	13336	194543
Gulf Oil Corp	[illegible] C	1-M	[illegible]	12362	975	1125	—	2278	1852	1942	922	20168	1797	1822	[illegible]	[illegible]
	"	[illegible]	[illegible]	53480	22524	22280	15157	39139	3502	795	5059	14044	3208	21040	—	[illegible]
	[illegible]	2-K	[illegible]	66871	58456	74745	59007	67448	42713	36,800	33420	72978	27826	37161	39855	617346
	[illegible]	1-J	[illegible]	4257	4736	1435	—	—	—	—	—	—	—	—	—	[illegible]
[illegible]	Elliott	1-7	[illegible]													
Humble O & Rfg Co	Cooper	1-7	14-26-36	14706	9900	9067	8122	14391	2416	863	953	1245	167	4329	[illegible]	[illegible]
	[illegible]	1-M	[illegible]	5087	—	8570	9283	9178	9004	9509	10111	9592	8307	8800	8182	[illegible]
	[illegible]	1-K	21-25-37	30888	26478	11931	8565	2422	1880	4687	1492	2382	3448	19815	25357	[illegible]
	State C	1-E	[illegible]	SH	SH	SH	SH	[illegible]	[illegible]	1125	10284	6985	5240	19285	[illegible]	[illegible]
	"	7-I	29-21-36	6207	5667	2403	394	16260	16860	1019	8837	5004	9856	39150	27780	[illegible]
	[illegible]	1-0	[illegible]	71315	21838	14149	10002	18277	372	1755	565	172	—	0	—	[illegible]

1953 Dry Gas Production
Jalco Pool

Company	Lease	Well #	S-T-R	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
~~[illegible]~~	~~[illegible]~~	~~3-5~~	~~[illegible]~~	~~No Report~~	~~No Report~~	~~No Report~~	~~No Report~~	~~No Report~~	~~No Report~~	~~No Report~~	~~No Report~~	~~No Report~~	~~[illegible]~~	1788	2194	[illegible]
Knapp-Flaherty	[illegible] C	3-E	21-25-37													
[illegible] Oil Co	[illegible]	1-G	31-21-36						Completed [illegible]		2898	187	1274	880	768	[illegible]
Leonard Oil Co	[illegible]	1-D	20-25-37	22580	16187	44855	28557	8451	19083	35099	943	1348	3658	15602	[illegible]	203723
	"	2-A	29-25-37	26350	9366	5179	20442	10206	15795	2538	23607	16572	1853	5084	[illegible]	[illegible]
	Justis	1-H	19-25-37	34560	29929	18730	1733	34218	1845	11865	15,292	9548		7262	2856	167868
	"	2-4	20-25-37	33402	25683	27511	20874	17644	5534	3174	11988	9424		29391	26609	231234
	"	[illegible]	30-25-37													
[illegible]	M. Rose	1-M	17-25-37	18397	13183	19351	5583	4235	6192	14480	4997		969	6374	[illegible]	[illegible]
	[illegible] B	1-K	16-25-36	3115	2449	2770	527	2775	1650	1371	14,637	1387	790	782	538	33291
Olsen-[illegible] Co	[illegible]	2-2	31-25-37	38300	26796	19530	25430	22390	18790	17787	18105	5364	5260	0	3189	[illegible]
	[illegible]	1-M	25-25-37	16830	16433	24244	24016	25418	8432	22873	12054	18013	18698	7120	1866	[illegible]
	[illegible]	1-M	24-25-37	33712	28223	17766	2264	25513	5542	127	1935	2555	16336	19147	[illegible]	[illegible]
	[illegible]	1-P	[illegible]	20917	48004	18836	1494	11420	306	848	2232	1254	1884	16608	[illegible]	157176
R. Olsen-[illegible]	[illegible]	1-E	21-25-37	10812	0	24269	31203	28032	24912	37168	34,331	32315	28756	31804	[illegible]	[illegible]
	[illegible]	1-A	30-24-36	27747	16106	25078	5124	9126	281	367	2812	6835	3562	614	[illegible]	166784
Olsen Oil Co.	[illegible]	[illegible]	7-25-37	1937	—	23341	—	28535	6425	21468	3049	32492	43145	56572	[illegible]	[illegible]
	Cooper	1-H	13-26-37	—	—	—			8842	7596	8808	6167	4124	2934	[illegible]	[illegible]
	"	5-H	14-26-36										6331	23729	[illegible]	[illegible]
	" B	[illegible]	14-26-36	15913	14918	16950	14692	14241	12998	11770	3061	14598	12895	17781	[illegible]	[illegible]
	" G	1-C	[illegible]	33781	27649	14403	29803	20958	8201	11089	12339	6997	9122	21477	[illegible]	[illegible]
	[illegible]	1-C	[illegible]	10724	9934	18109	15801	18153	19167	12436	23,287	7343	18359	1111	[illegible]	[illegible]
	"	2-4	[illegible]	20527	44961	5299	14026	4699	12032	22507	44446	16598	4094	42330	[illegible]	[illegible]
Phillips Pet Co	[illegible]	1-K	26-24-36	No Report	No Report	[illegible]										
Shell Oil Co	State H	[illegible]	36-24-36			First report →	15100	86	13779	7876	25,134	17745	1976	25820	[illegible]	[illegible]
	"	[illegible]	[illegible]	SH	✓	—	—	6306	25667	21266	12,330	16774	[illegible]	[illegible]	[illegible]	[illegible]
	" H	[illegible]	[illegible]	SH	✓	—	—	—	—	—	—	—	3225	17392	936	[illegible]
Sinclair Oil & Gas Co	State [illegible]	1-A	[illegible]	82	20	59	55	57	42	19406	4652	[illegible]	2845	10799	[illegible]	[illegible]

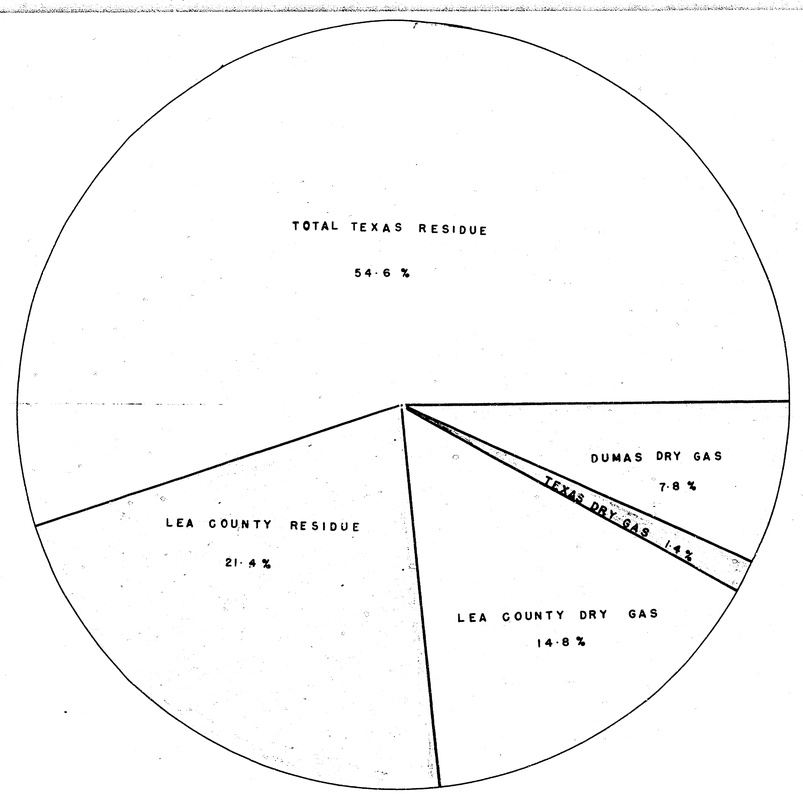
1953 Dry Gas Production ⑦
Jalco Pool

Company	Lease	Well #	S-T-R	Jan	Feb	March	April	May	June	July	Aug	Sept	Oct	Nov	Dec	Total
Skelly Oil Co	[illegible]	3-B	1-25-37	12283	8244	7605	14887	6737	6941	9067	11502	11523	15032	9342	18248	126411
	"	2-H	[illegible]	44761	23339	18434	40226	21726	3939	7668	3417	7025	4261	36344	46181	257321
So. Calif. Pet Corp	[illegible]	1-M	34-25-37	47205	38846	45220	34023	4333	12728	2579	838	1679	964	16455	[illegible]	[illegible]
	"	2-E	34-25-37	10456	7995	9766	8427	8036	6576	8306	8086	7753	7084	2047	[illegible]	[illegible]
	[illegible] State	[illegible]	16-23-36	4445	31970	[illegible]	—	—	715	2032	675	4199	31512	125	36495	[illegible]
	[illegible]	1-I	[illegible]	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	[illegible]	[illegible]
	[illegible]	2-M	7-25-37	17489	26513	24713	22318	12289	15821	20732	18582	16638	8731	54	[illegible]	[illegible]
Sun Oil Co	[illegible]	[illegible]	[illegible]	14990	34036	27453	7284	9123	560	4829	1511	8894	[illegible]	7238	[illegible]	133989
Standard Oil Co	[illegible] H	2-M	31-25-37	9369	8639	11279	13616	15018	12915	14035	12950	11806	1676	738	483	112524
	" C	1-C	33-25-37	1325	932	1257	7024	9747	1272	11350	607	28	730	25	157	[illegible]
T.P. Coal & Oil Co	State [illegible]	[illegible]	21-23-36	8353	2469	18374	31257	31931	35343	38540	38459	10881	9810	19890	[illegible]	[illegible]
	"	3-E	"	11266	23678	17132	10960	9327	1755	1331	1804	16777	3809	3742	[illegible]	[illegible]
	"	4-C	"	10505	10918	8365	9241	9426	7563	9236	8036	11205	8783	5619	[illegible]	[illegible]
	"	6-7	"	7800	25633	19162	6235	4054	4914	14996	26,996	5940	4144	21630	[illegible]	[illegible]
	"	[illegible]	"	21158	5402	51185	46871	12930	1971	11202	24963	1659	2189	23250	[illegible]	[illegible]
	"	9-M	9-23-36	26555	21136	29338	24917	29683	7114	14968	2502	15217	10245	14268	[illegible]	[illegible]
	"	12-0		9281	31203	14378	37484	21491	421	1673	7091	14741	13370	3070	[illegible]	[illegible]
	"	14-E		36063	33177	33660	35629	19280	4490	11632	2323	17319	11976	15368	[illegible]	[illegible]
	"	15-7	4-23-36	3353	21379	24036	39202	27183	6440	2406	5332	14127	5687	24607	[illegible]	[illegible]
	"	18-M	"	50853	0	0	32865	51054	18010	28331	5630	9375	8836	7375	[illegible]	[illegible]
	"	[illegible]	"	42532	0	8611	31870	37457	33647	25419	4695	2527	16965	22934	[illegible]	[illegible]
	State [illegible]	[illegible]	7-22-36		2718	29228	33056	37600	13324	7515	16550	1195	3676	27248	[illegible]	120947
	"	4-M	5-22-36		3221	39382	80143	99241	113895	104929	6023	1472	14504	33484	[illegible]	[illegible]
[illegible]	[illegible] 4	1-C	[illegible]	[illegible]	—	—	—	—	—	—	—	—	—	—		
[illegible]	[illegible]	1-A	6-25-37	9648	23752	8925	18831	25429	26371	28711	33314	27345	1748	9661	5795	[illegible]
[illegible]	[illegible]	1-0	34-22-36	21822	16409	14742	12546	22869	20435	22237	19400	19381	11538	22161	[illegible]	[illegible]
	[illegible]	1-6	6-25-37	52617	49357	6910	8402	41951	3798	2354	813	4228	2197	61744	[illegible]	[illegible]
	[illegible]	1-A	[illegible]	96844	44093	10141	18154	17207	498	6650	35,931	189	2191	11580	46666	[illegible]
[illegible]	[illegible]	1-J	6-22-36	95238	85763	29193	[illegible]	[illegible]	[illegible]	72658	73030	68746	67726	66698	69360	[illegible]
	" H	1-A	18-22-36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	313280	2517509
	" "	3-I	18-22-36	206833	187518	200269	206256	[illegible]	207504	203219	[illegible]	203113	202698	212984	313279	2512591
	" B	6-E	20-22-36	76441	67755	97355	74476	57317	52336	49743	23171	12525	12097	11530	8941	588556
Totals				2369339	[illegible]	[illegible]	2008370	2150001	1591487	1749916	1664938	1489970	1313458	1443458	2251651	[illegible]

Exhibit
Jan 20, 1954
(Bar - Allowable)
S. J. Stanley

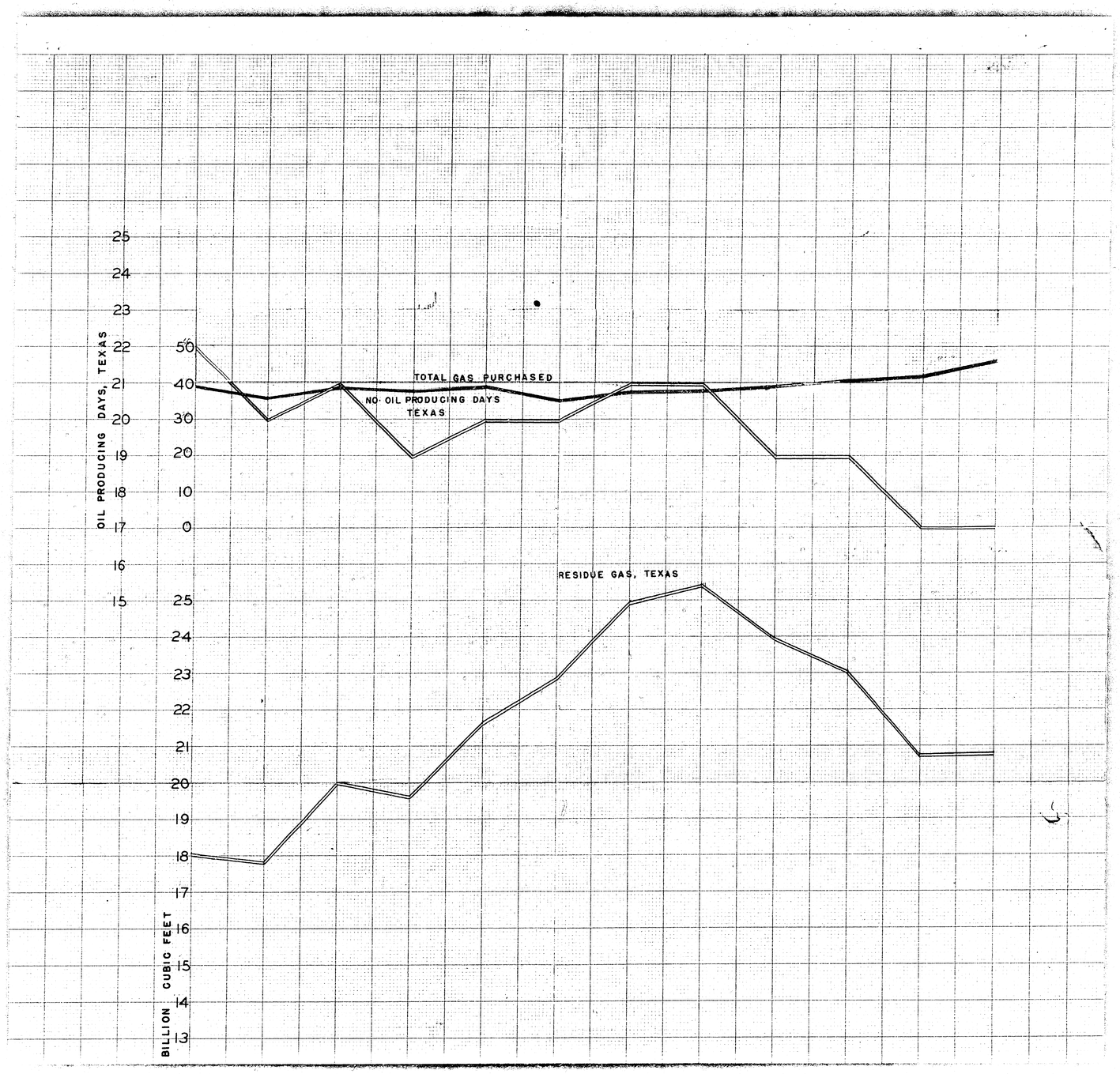
55

T.P.



EL PASO NATURAL GAS CO·
TOTAL GAS PURCHASED FOR 1953
474,962,120 MCF
PERMIAN BASIN

79


OIL PRODUCING DAYS, TEXAS
25
24
23
22
21
20
19
18
17
16
15
50
40
30
20
10
0
TOTAL GAS PURCHASED
NO. OIL PRODUCING DAYS
TEXAS
RESIDUE GAS, TEXAS
BILLION CUBIC FEET
25
24
23
22
21
20
19
18
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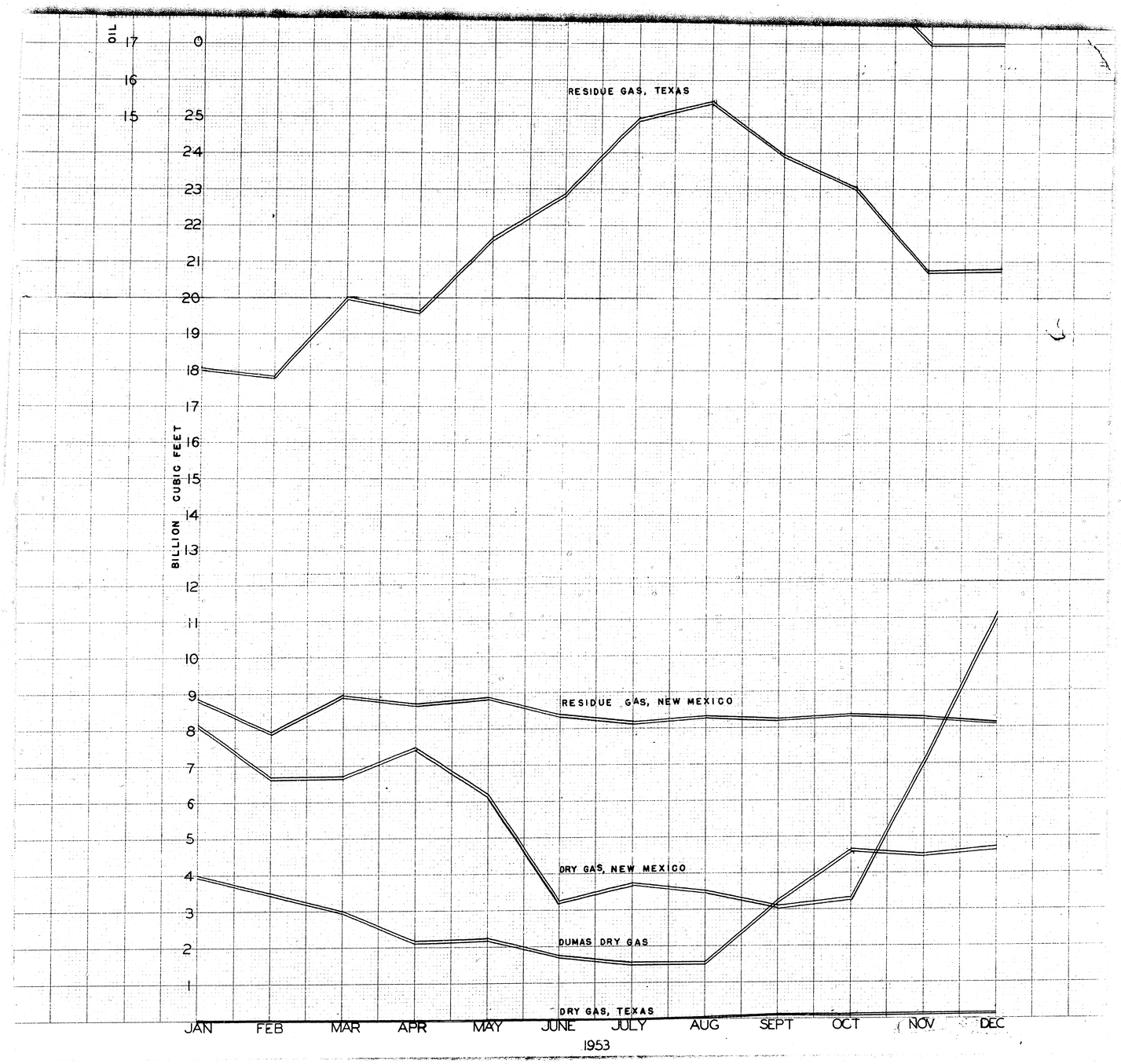
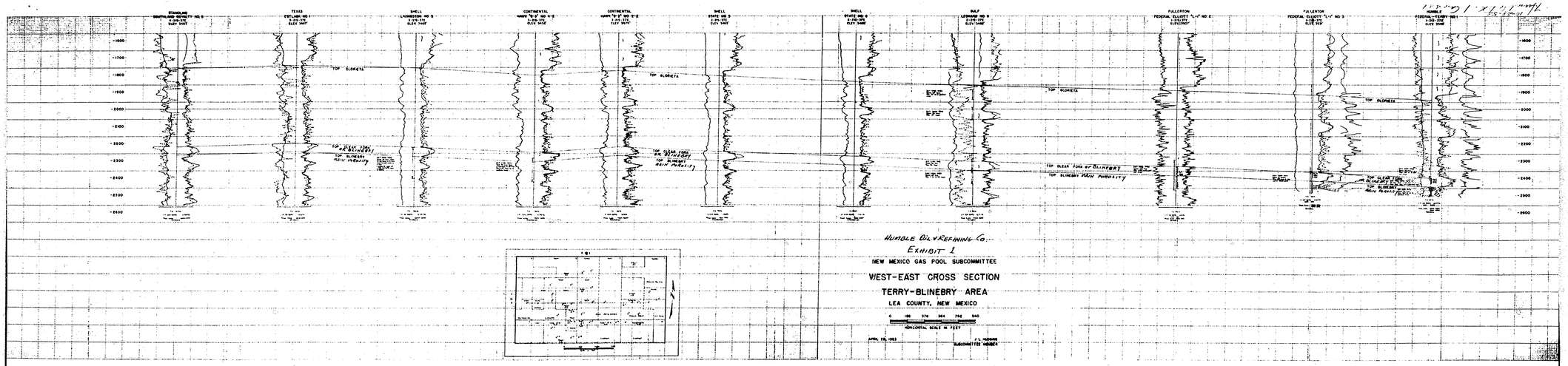
16
15
14
13

80

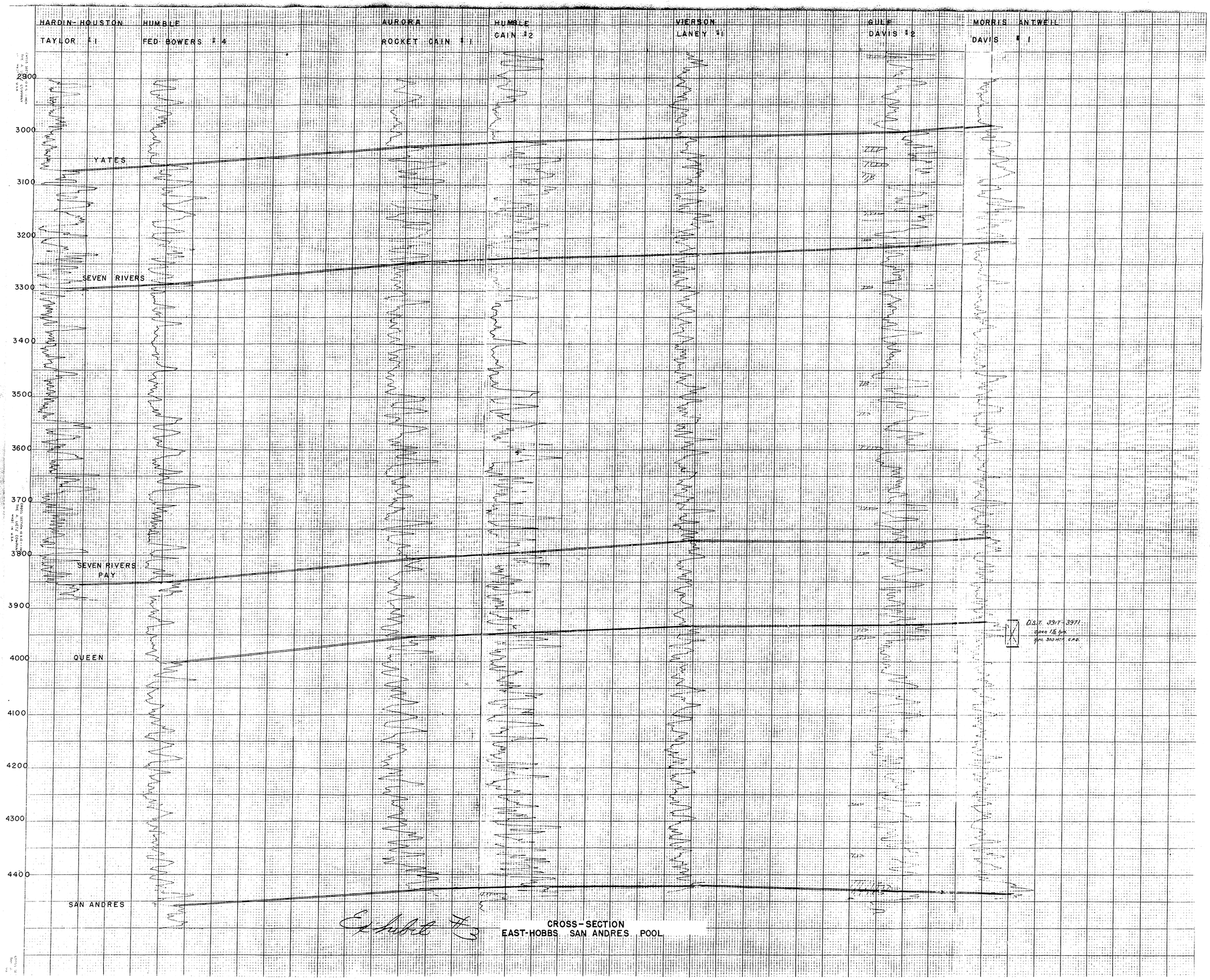
81


OIL
17
16
15
0
25
24
23
22
21
20
19
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
BILLION CUBIC FEET
RESIDUE GAS, TEXAS
RESIDUE GAS, NEW MEXICO
DRY GAS, NEW MEXICO
DUMAS DRY GAS
DRY GAS, TEXAS
JAN
FEB
MAR
APR
MAY
JUNE
JULY
AUG
SEPT
OCT
NOV
DEC
1953



HUMBLE OIL & REFINING CO.
EXHIBIT 1
NEW MEXICO GAS POOL SUBCOMMITTEE
WEST-EAST CROSS SECTION
TERRY-BLINEBRY AREA
LEA COUNTY, NEW MEXICO
0 186 376 564 752 940
HORIZONTAL SCALE IN FEET
APRIL 29, 1953
J. L. HUDDLE
SUBCOMMITTEE MEMBER

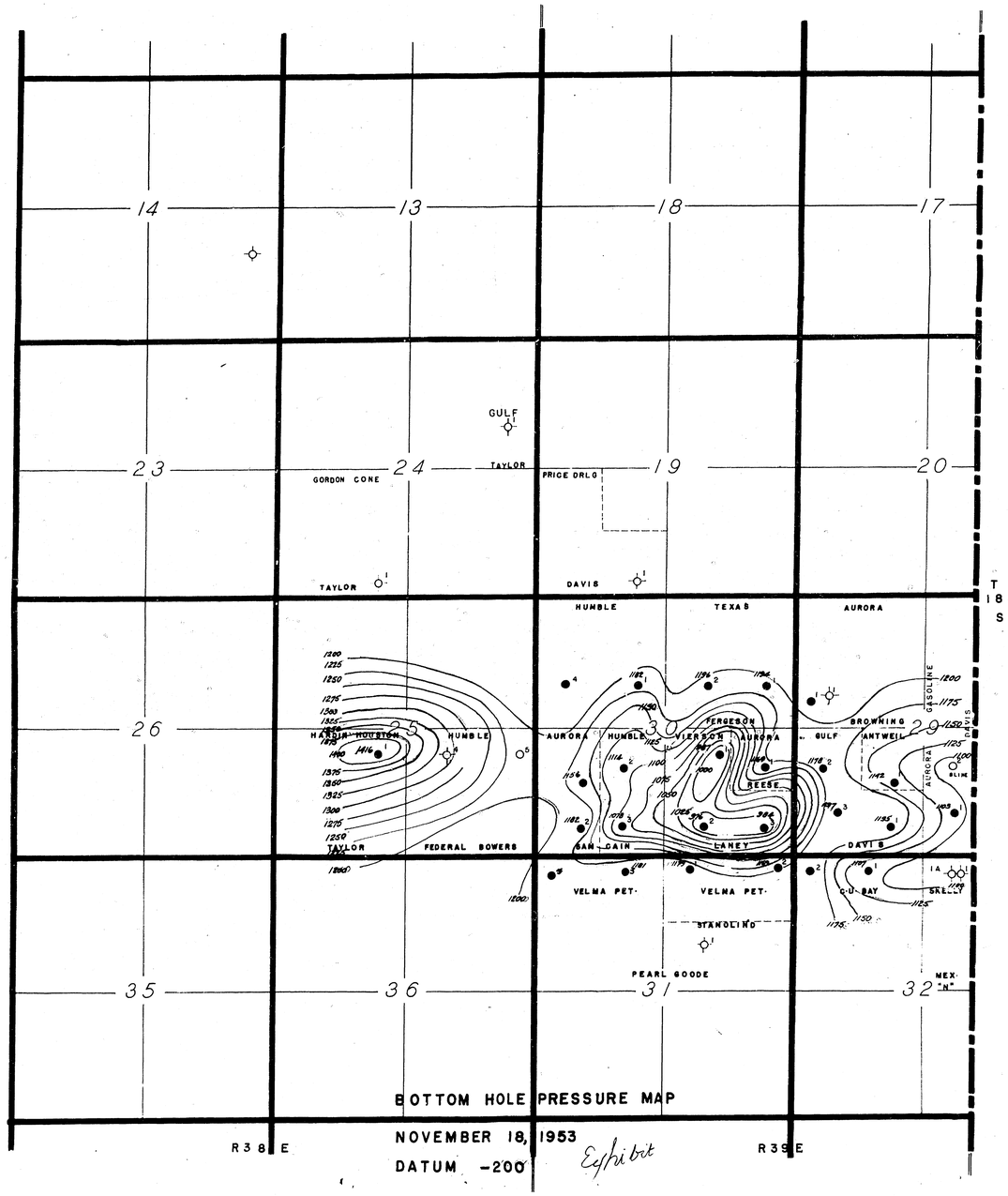
82



CROSS-SECTION
EAST-HOBBS SAN ANDRES POOL

83

84

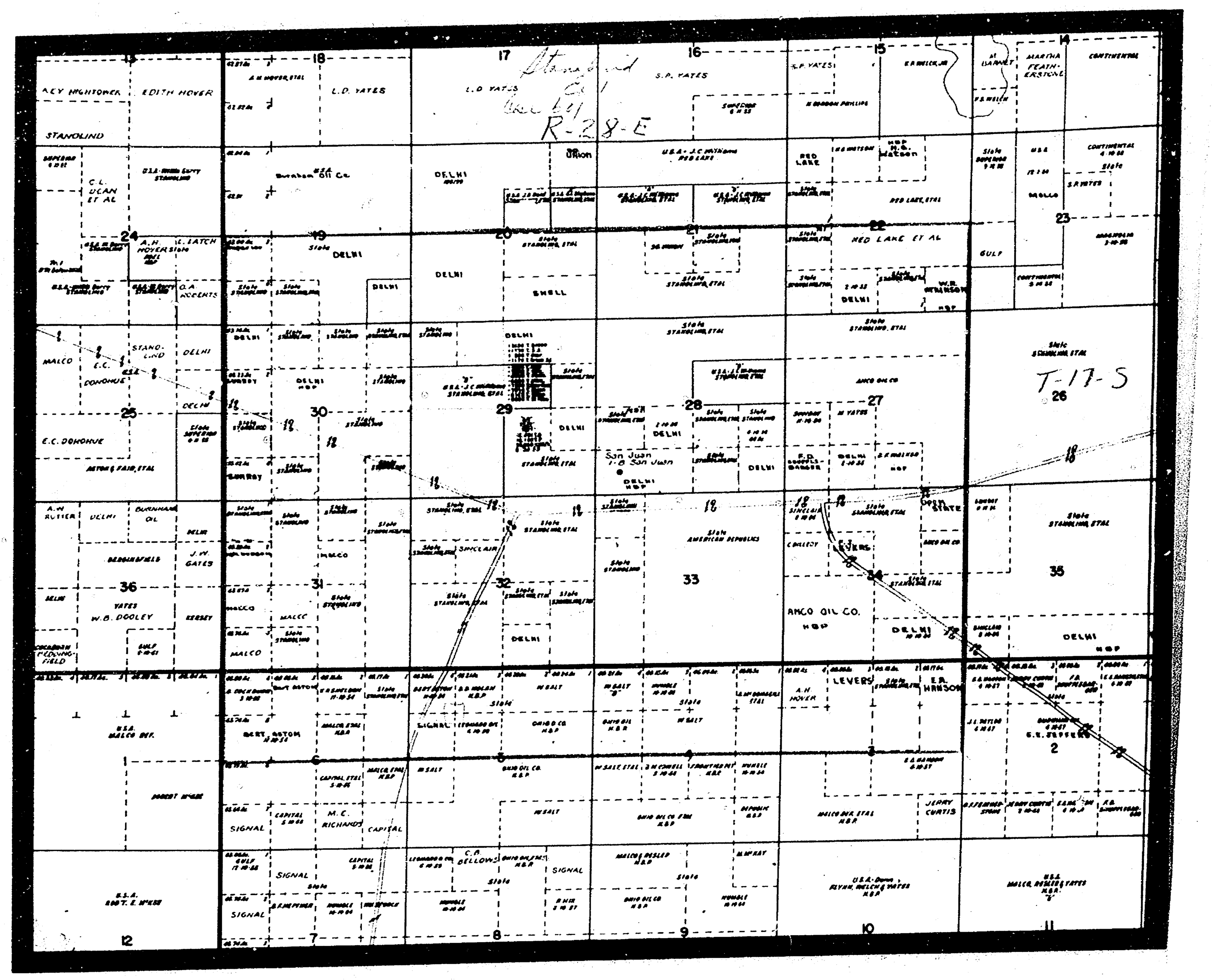


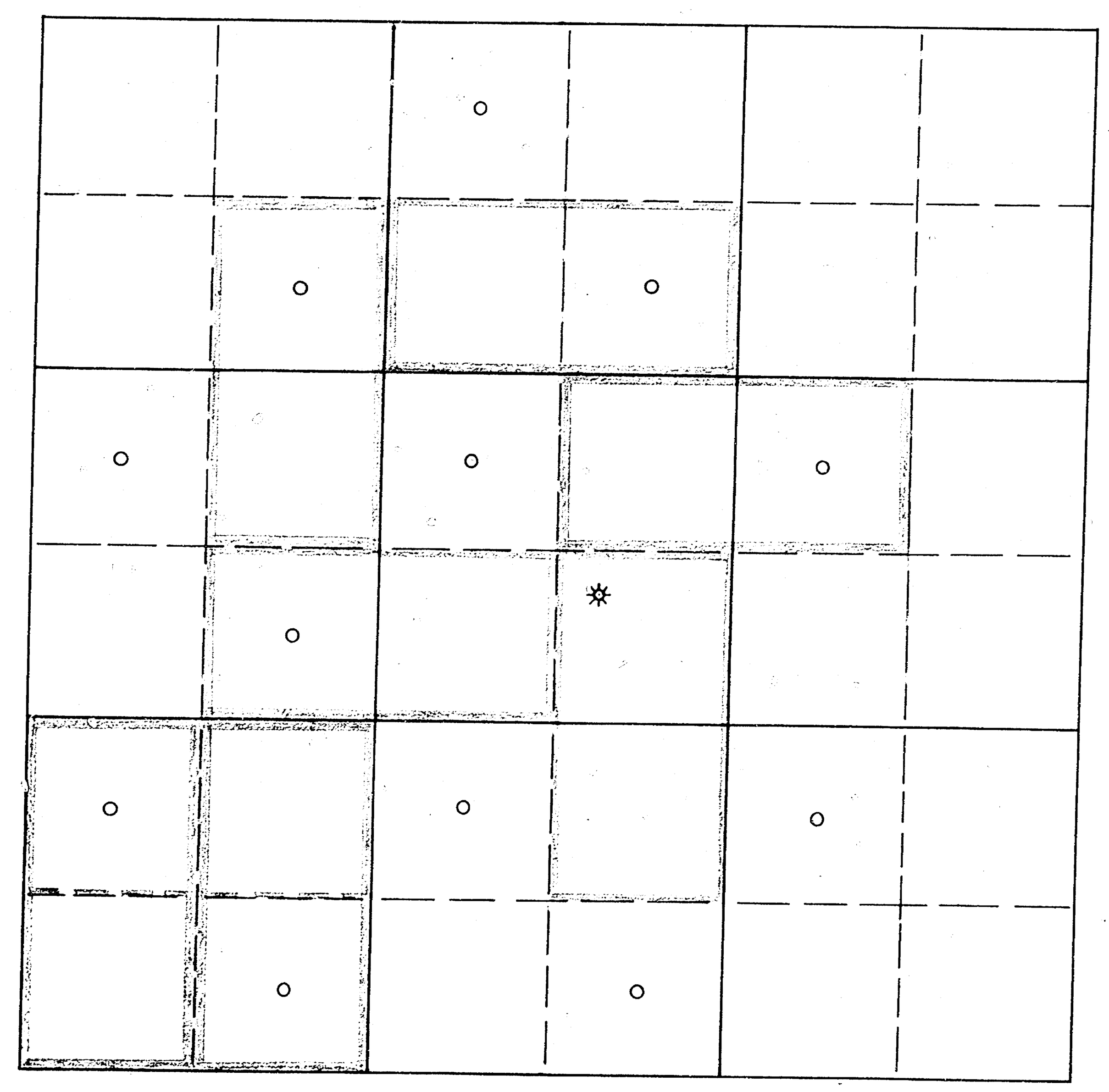
BOTTOM HOLE PRESSURE MAP

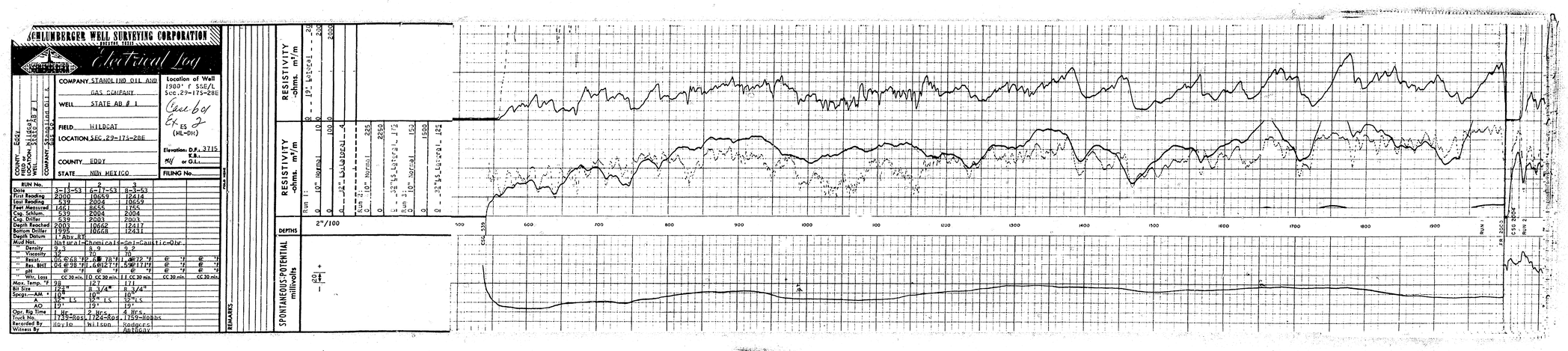
NOVEMBER 18, 1953

DATUM -200

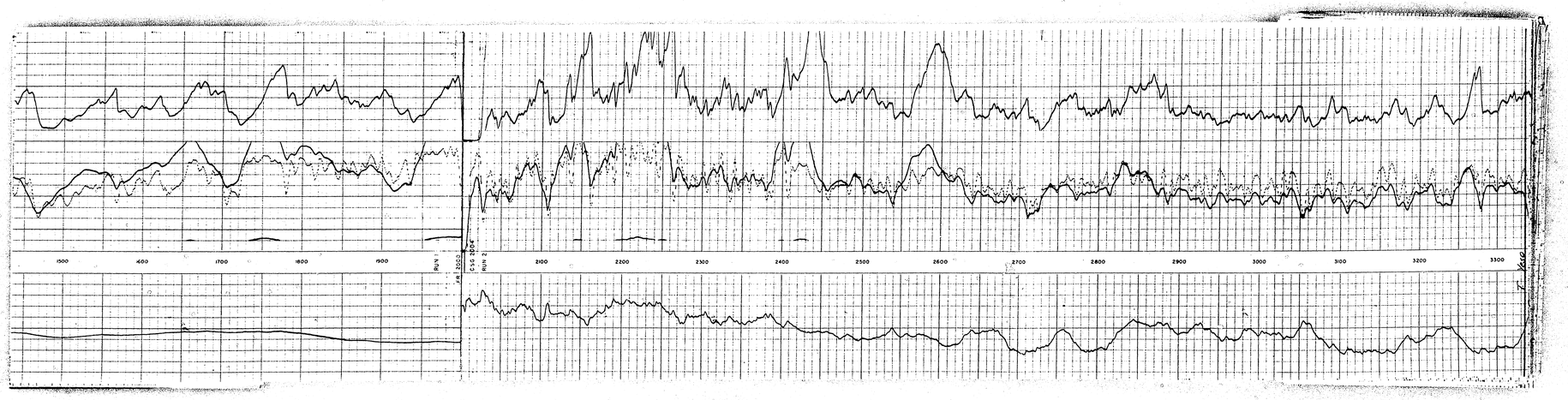
Exhibit

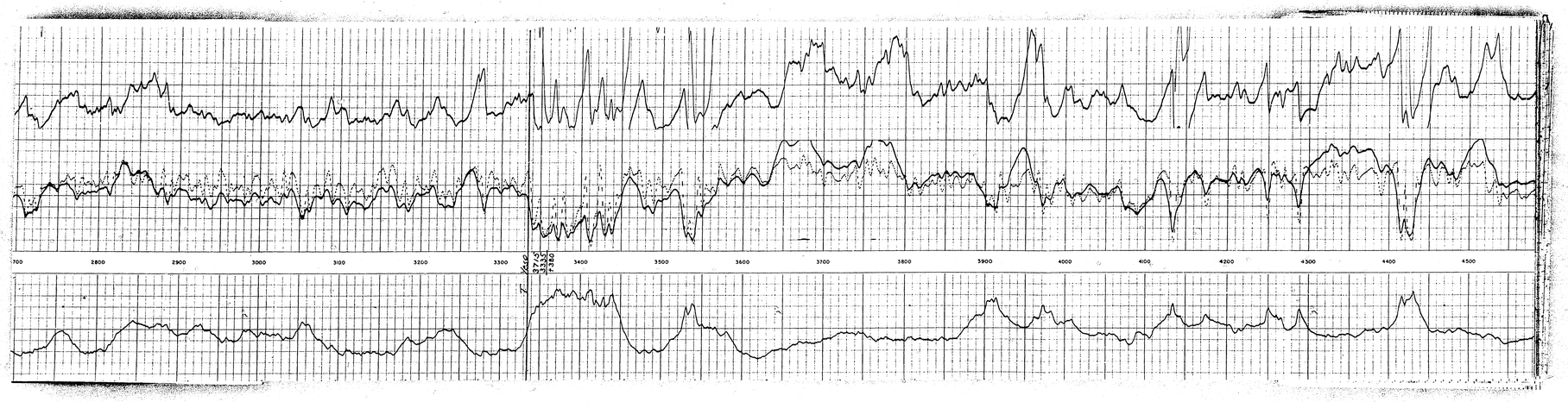

R-28-E
T-17-S
DELHI
SHELL
RED LAKE ET AL
AMERICAN REPUBLICS
ANCO OIL CO.
SIGNAL
M. C. RICHARDS
W. B. DOOLEY
E. C. DONOHUE
MALCO
STANOLIND
EDITH HOVER
L. D. YATES
S. P. YATES
CONTINENTAL
GULF
LEVERS
San Juan




SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Log
COMPANY STANOLIND OIL AND GAS COMPANY
WELL STATE AB # 1
FIELD WILDCAT
LOCATION SEC.29-17S-28E
COUNTY EDDY
STATE NEW MEXICO
Location of Well
1980' f SSE/L
Sec.29-17S-28E
Case 601
Ex ES 2
(HL-DH)
Elevation: D.F. 3715
K.B.
M/ or G.L.
FILING No.
COUNTY Eddy
FIELD or LOCATION Wildcat
WELL State AB # 1
COMPANY Standolind Oil & Gas Co.
RUN No. 1 2 3
Date 3-13-53 6-17-53 8-3-53
First Reading 2000 10659 12414
Last Reading 539 2004 10659
Feet Measured 1461 8655 1755
Csg. Schlum. 539 2004 2004
Csg. Driller 539 2003 2003
Depth Reached 2003 10662 12417
Bottom Driller 1995 10668 12431
Depth Datum 1' Abv. RT
Mud Nat. Natural-Chemicals-Sol-Caustic-Obr.
" Density 9.3 8.9 9.2
" Viscosity 32 70 70
" Resist. 06 @ 68 °F 2.6 @ 78 °F 1.4 @ 72 °F @ °F @ °F
" Res. BHT 04 @ 98 °F 1.6 @ 127 °F .59 @ 171 °F @ °F @ °F
" pH @ °F @ °F @ °F @ °F @ °F
" Wtr. Loss CC 30 min. 10 CC 30 min. 11 CC 30 min. CC 30 min. CC 30 min.
Max. Temp. °F 98 127 171
Bit Size 12¼" 8 3/4" 8 3/4"
Spcgs.—AM 10" 10" 10"
A 32" LS 32" LS 32" LS
AO 19' 19' 19'
Opr. Rig Time 1 Hr. 2 Hrs. 4 Hrs.
Truck No. 1739-Ros 1724-Ros 1759-Robbs
Recorded By Hoyle Wilson Rodgers
Witness By Anthony
REMARKS
RESISTIVITY -ohms. m²/m
Run 1: 0 - 19" Lateral - 20
0 - 10" Normal 10 0
0 - 32" LS Lateral 100 0
0 - 4
Run 2: 0 - 10" Normal 225
0 - 32" LS Lateral 2250
0 - 10" Normal 150
0 - 32" LS Lateral 1500
DEPTHS 2"/100
SPONTANEOUS-POTENTIAL millivolts
CSG 539
CSG 2004
RUN 1
RUN 2

86


1500
1600
1700
1800
1900
RUN 1
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
RUN 2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2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
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4300
4400
4500

4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
5500
5600
5700
5800
T. Grinkard
4880
3715
-1165
T. Abo
5590
3715
-1875

89

4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
5100
5200
5300
5400
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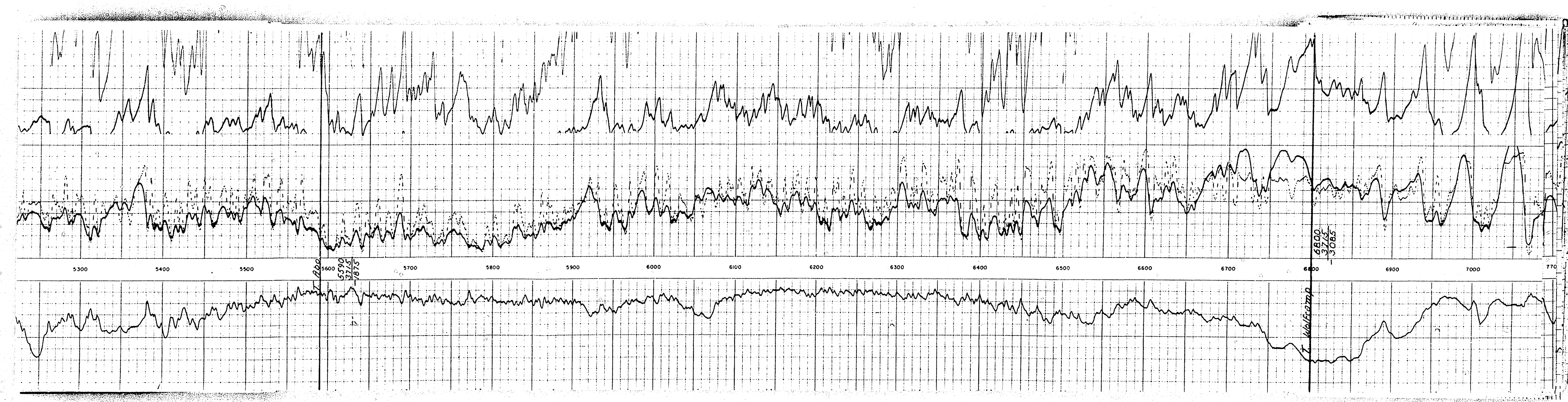
5600
5700
5800


5300
5400
5500
Abo
5600
5590
3715
-1875
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600
6700
6800
3715
-3085
Wolfcamp
6900
7000

91

6800
3715
3085
7790
3715
4075
6500
6600
6700
6800
6900
7000
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000
8100
8200
8300

92

7800
7900
8000
8100
8200
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9100
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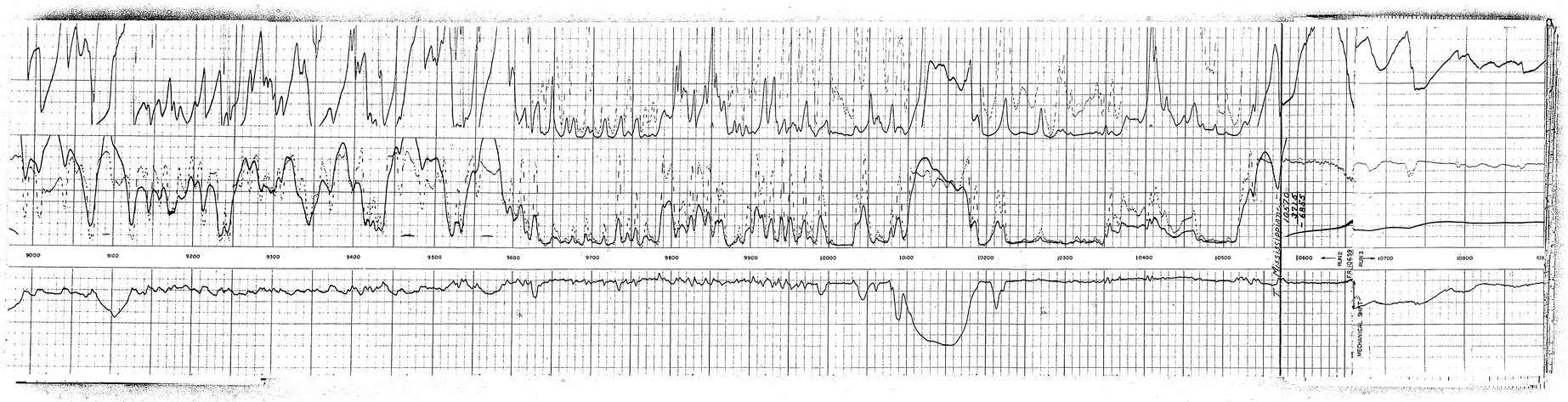
9500
9600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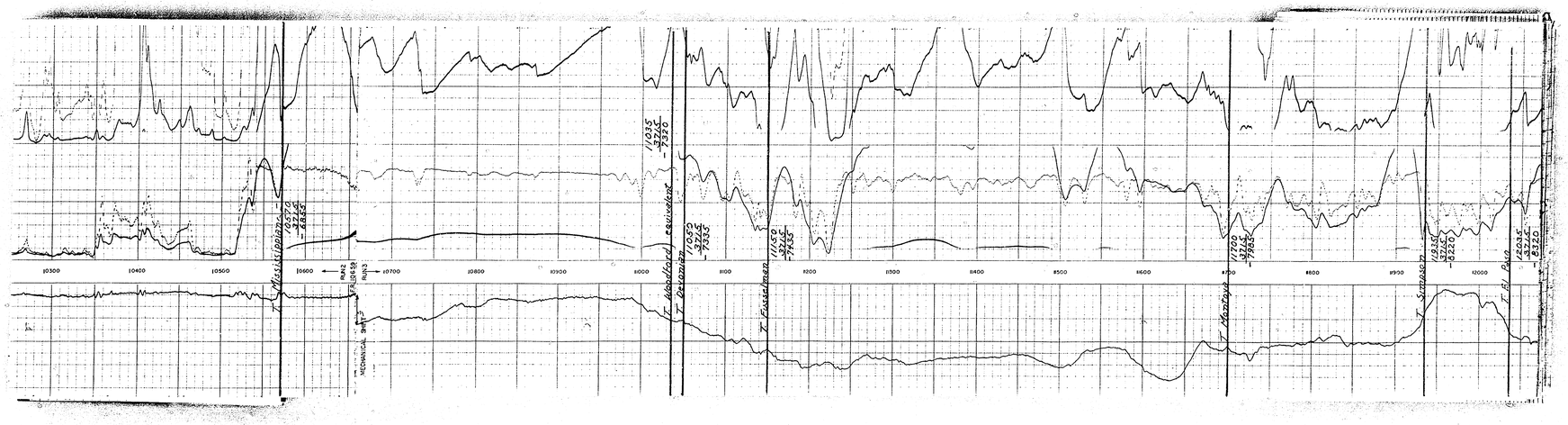
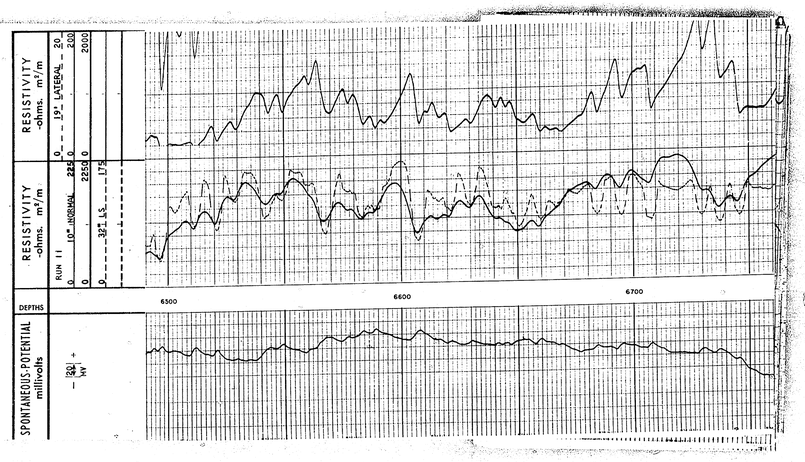
9100
9200
9300
9400
9500
9600
9700
9800
9900
10000
10100
10200
10300
10400
10500
10600
10700
10800
RUN2
RUN3
MECHANICAL SHIFT

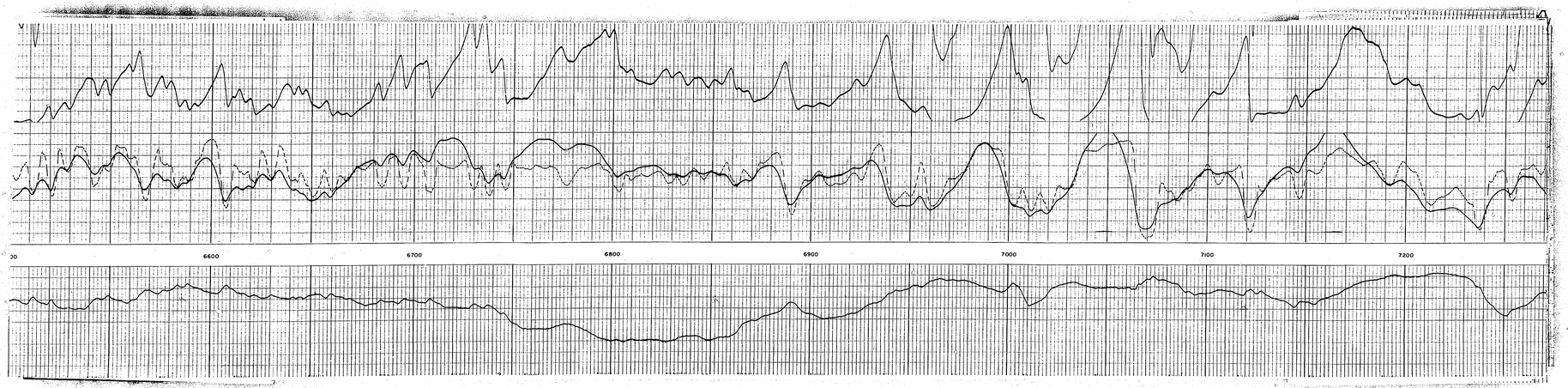

T. Mississippian
T. Woodford equivalent
T. Devonian
T. Fusselman
T. Montoya
T. Simpson
T. El Paso
MECHANICAL SHIFT
RUN 2
RUN 3

11600
11700
11800
11900
12000
12100
12200
12300
T. Montoya
T. Simpson
T. El Paso



RESISTIVITY -ohms. m²/m
19" LATERAL
RESISTIVITY -ohms. m²/m
RUN 11
10" INCREMENTAL
32" LS
DEPTHS
6500
6600
6700
SPONTANEOUS-POTENTIAL millivolts

96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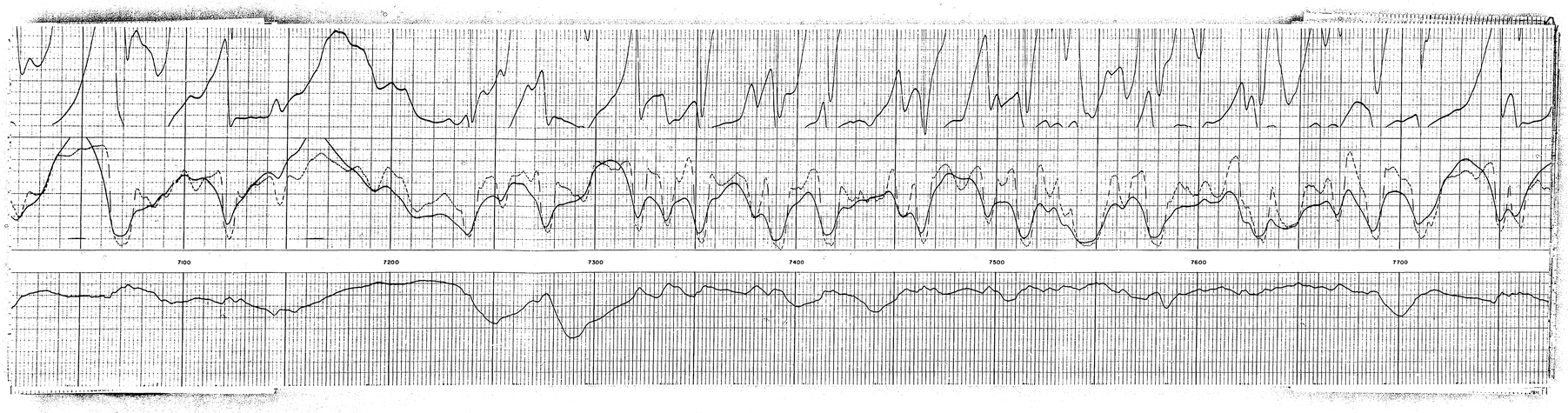
6700
6800
6900
7000
7100
7200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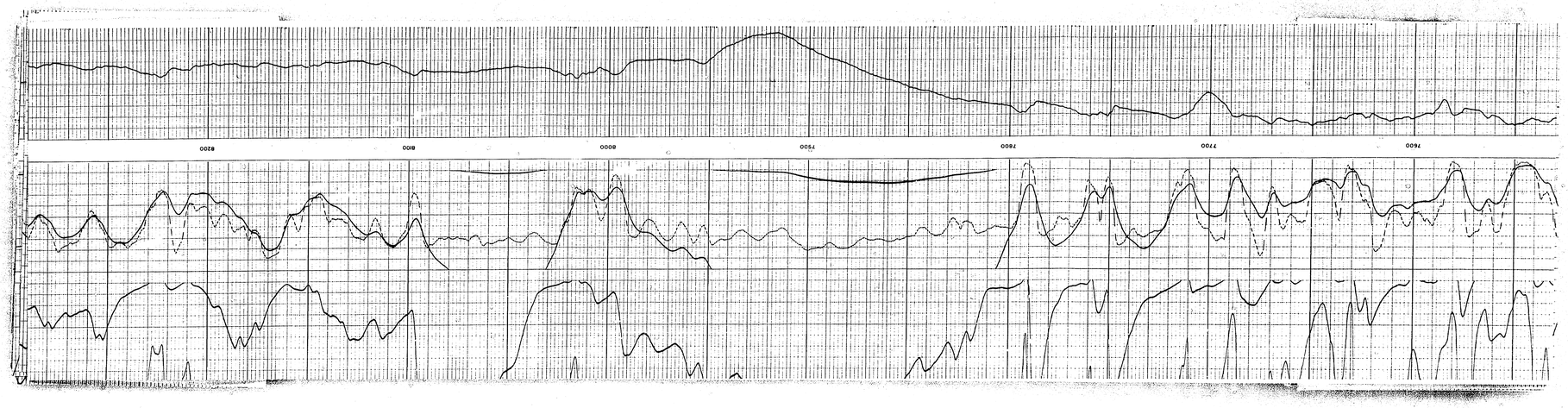
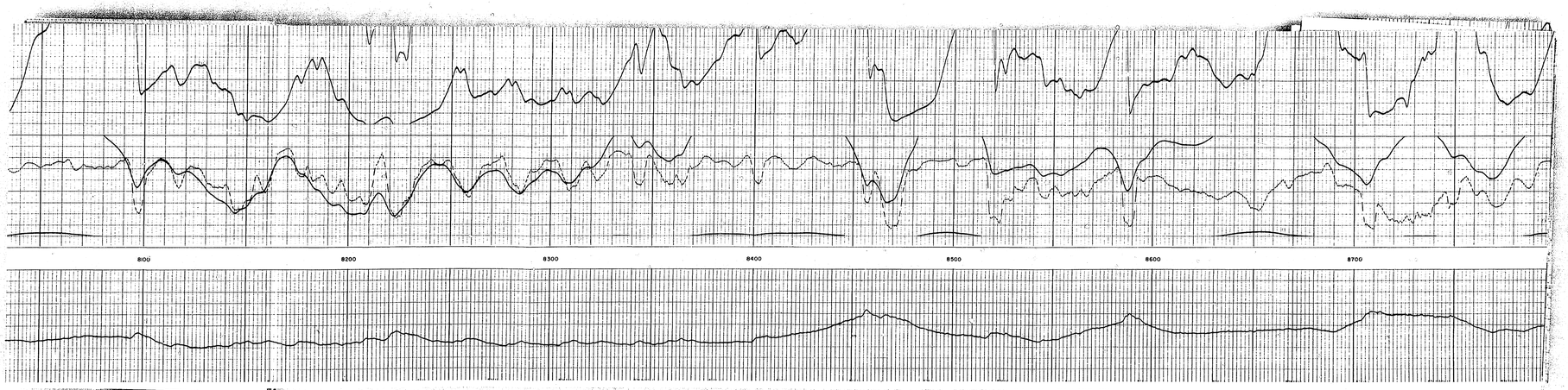
7200
7300
7400
7500
7600
7700

99





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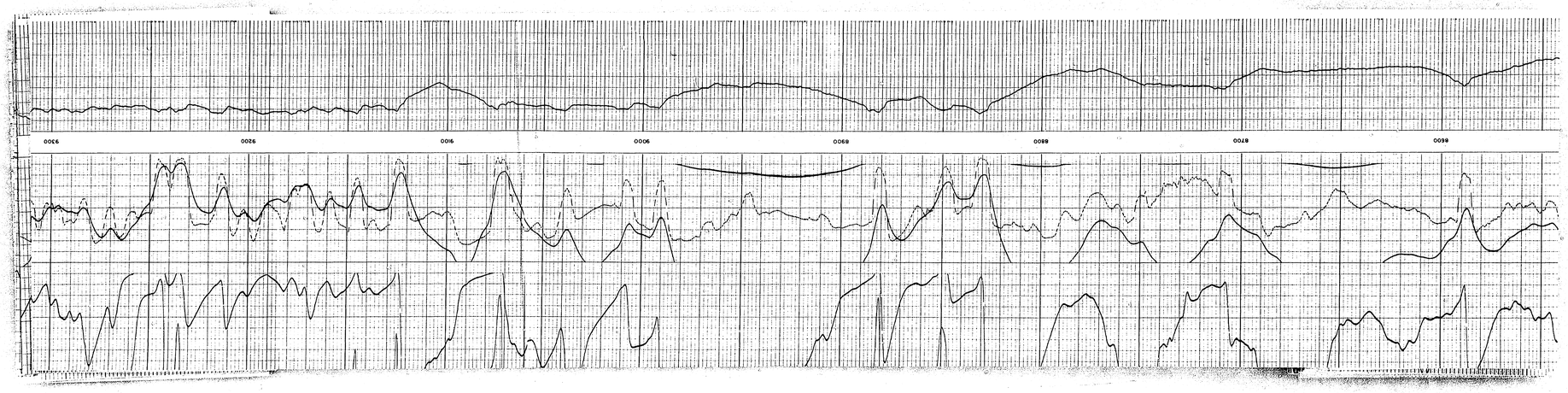
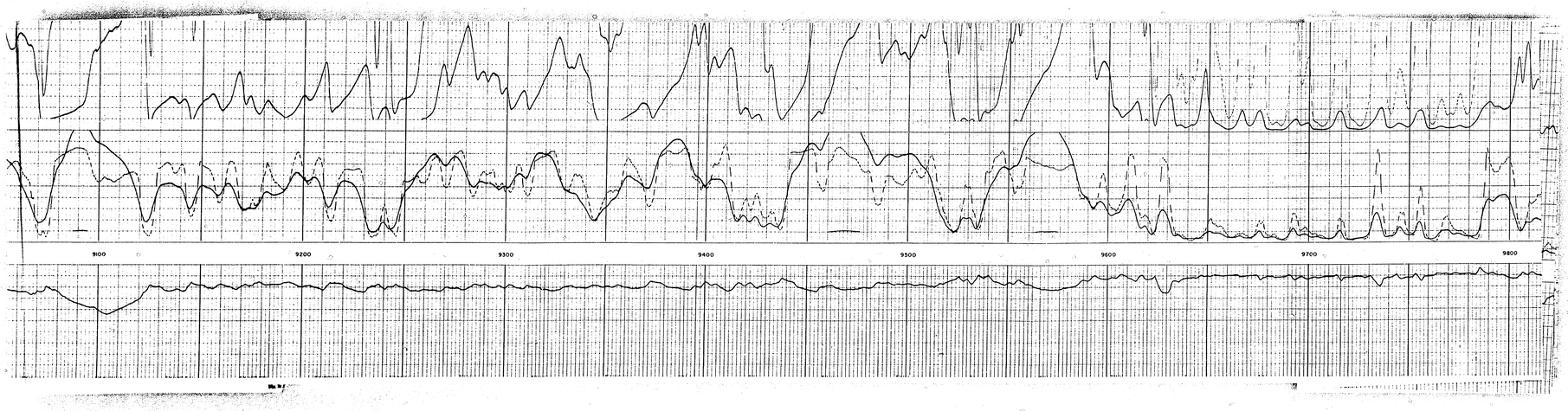
101

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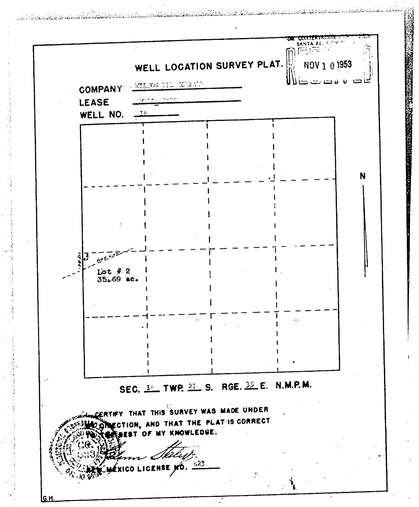
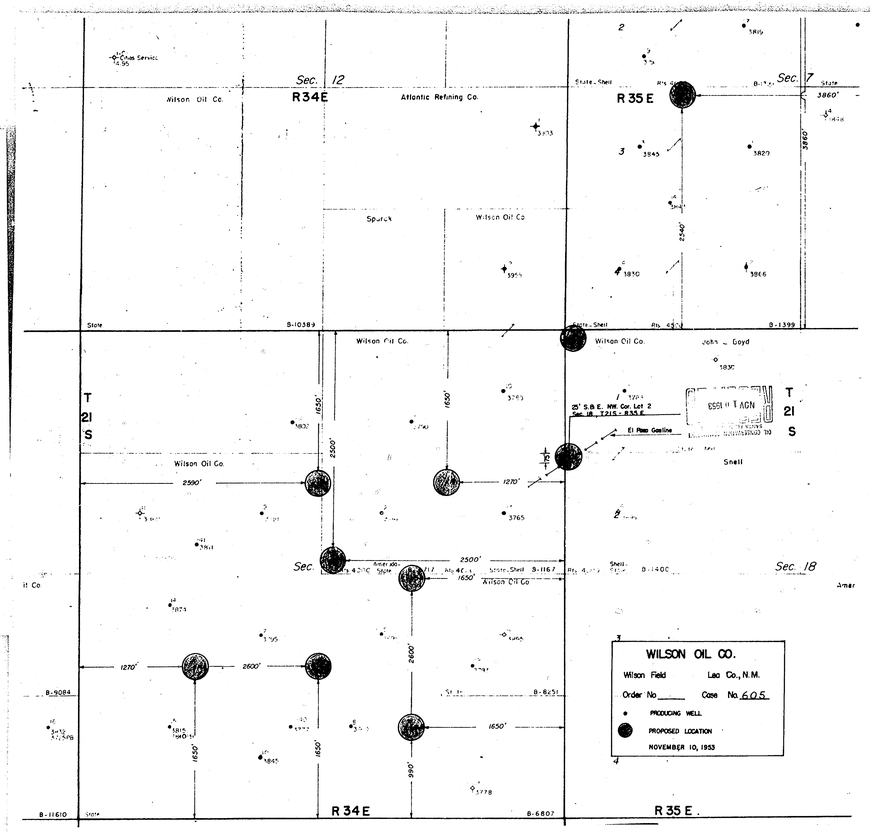
9200
9300
9400
9500
9600
9700
9800

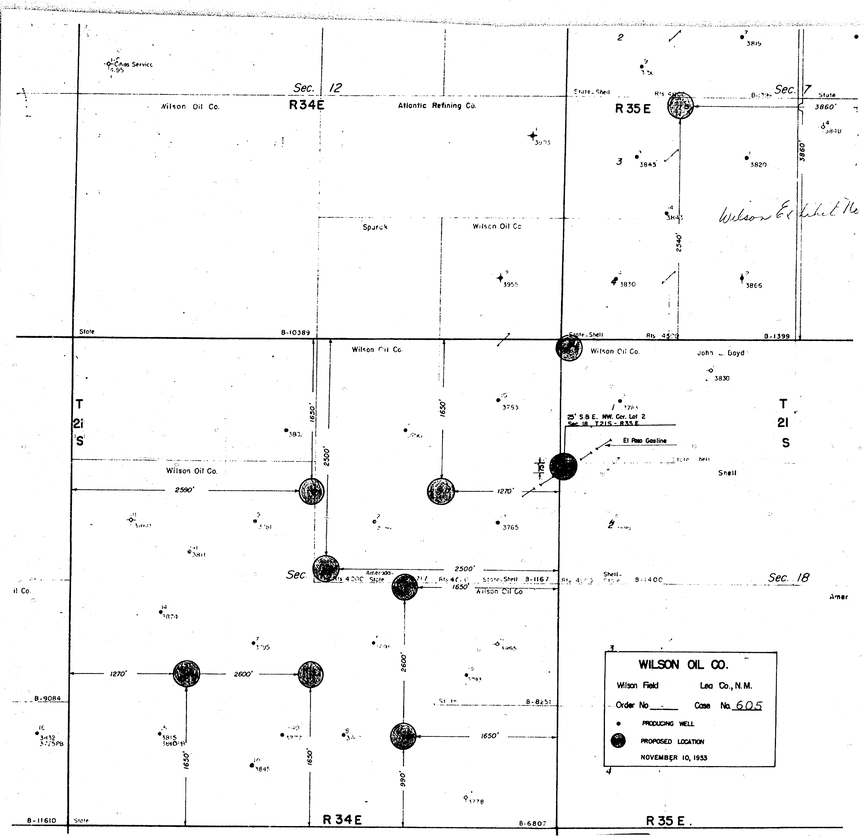
9600
9700
9800
9900
10000
10100
10200
10300

STANOLIND OIL & GAS CO.
STATE AB # 1
WILDCAT
EDDY COUNTY, N. M.

104

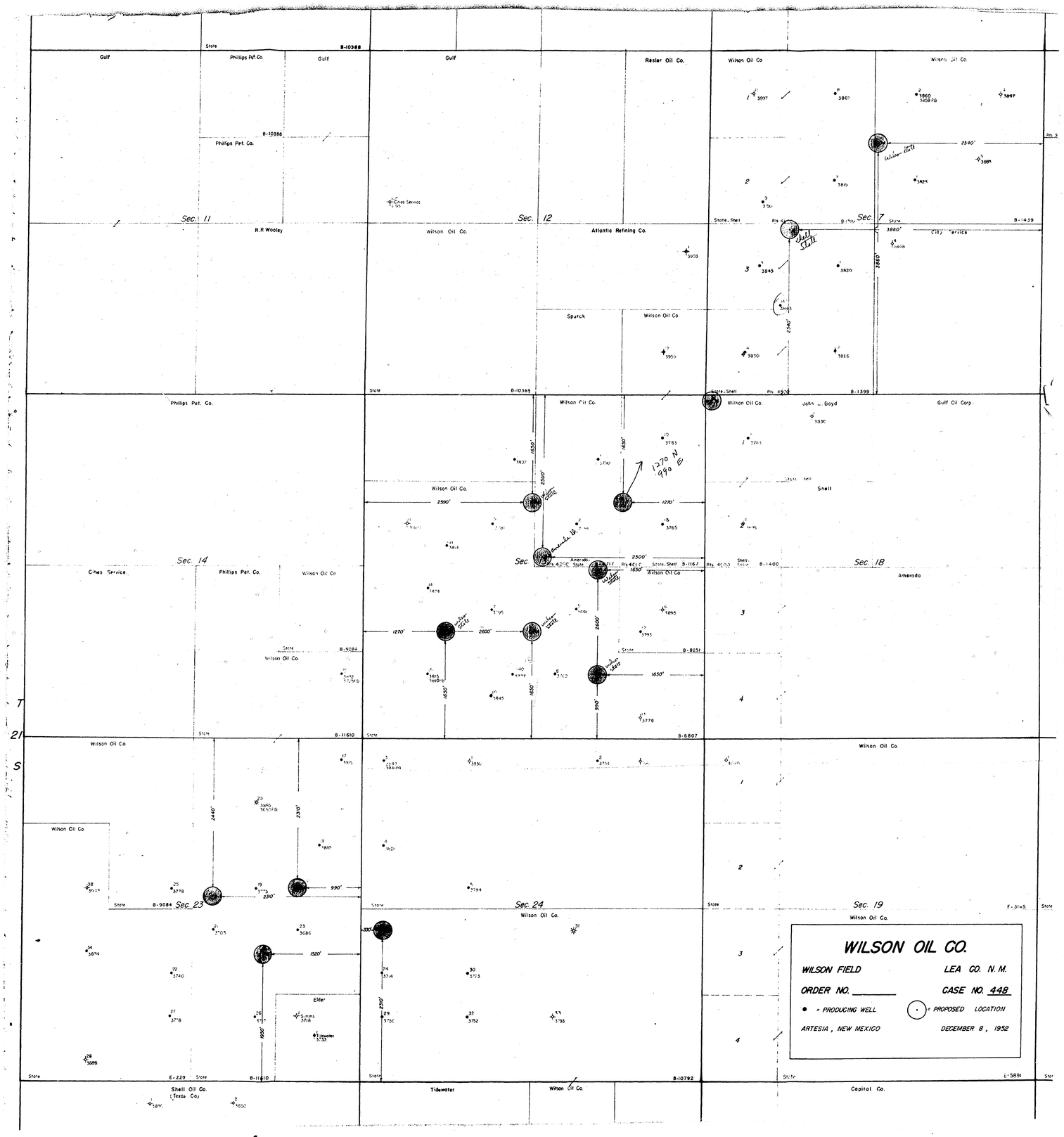

WELL LOCATION SURVEY PLAT.
NOV 10 1953
COMPANY
LEASE
WELL NO.
Lot # 2
35.69 ac.
N
SEC. 12 TWP. 21 S. RGE. 35 E. N.M.P.M.
I CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECTION, AND THAT THE PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE.
NEW MEXICO LICENSE NO. 623


Sec. 12
R34E
Wilson Oil Co.
Atlantic Refining Co.
R35E
Sec. 7
Spurck
Wilson Oil Co
John L. Boyd
T 21 S
25' S.B.E. NW. Cor. Lot 2
Sec. 18, T21S - R35E
El Paso Gasline
Shell
Sec.
Sec. 18
WILSON OIL CO.
Wilson Field
Lea Co., N.M.
Order No.
Case No. 605
PRODUCING WELL
PROPOSED LOCATION
NOVEMBER 10, 1953
R34E
R35E.


Sec. 12
R34E
Wilson Oil Co.
Atlantic Refining Co.
R35E
Sec. 7
Spurck
Wilson Oil Co
John L. Boyd
T 21 S
25' S.B.E. NW. Cor. Lot 2
Sec. 18, T21S - R35E
El Paso Gasline
Shell
Sec.
Sec. 18
WILSON OIL CO.
Wilson Field
Lea Co., N.M.
Order No.
Case No. 605
PRODUCING WELL
PROPOSED LOCATION
NOVEMBER 10, 1953
R34E
R35E.

105

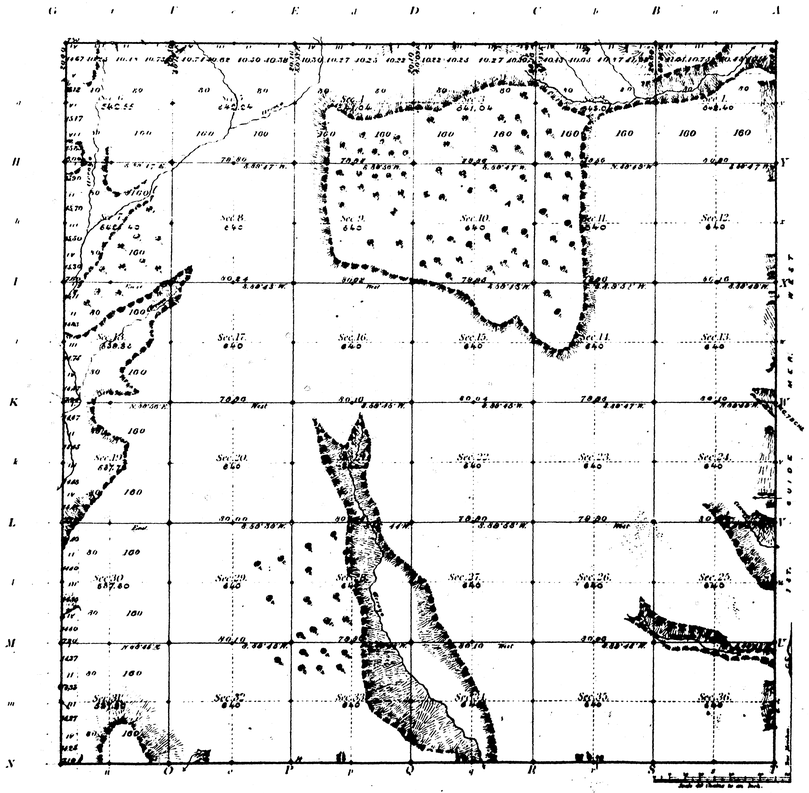
106



WILSON OIL CO.
WILSON FIELD
LEA CO. N. M.
ORDER NO. _____
CASE NO. 448
● = PRODUCING WELL
⊙ = PROPOSED LOCATION
ARTESIA, NEW MEXICO
DECEMBER 8, 1952
Sec. 11
Sec. 12
Sec. 7
Sec. 14
Sec. 18
Sec. 23
Sec. 24
Sec. 19
Gulf
Phillips Pet. Co.
Resler Oil Co.
Wilson Oil Co.
Atlantic Refining Co.
R.R. Wooley
Spurck
Cities Service
Shell
Amerada
Elder
Shell Oil Co. (Texas Co.)
Tidewater
Capital Co.
1270 N
990 E

107

TOWNSHIP Nº 31 NORTH RANGE Nº 8 WEST OF THE NEW MEXICO PRINCIPAL MERIDIAN



Meanders of

Tests	Courses	Dist's	Tests	Courses	Dist's	Tests	Courses	Dist's

Surveyor Generals Office
Santa Fe, New Mexico
April 19 1851.

I Hereby certify, that as Deputy under the Instructions of the Surveyor General of this Territory, Jacob Schuttler did, under Section Four of the United States Donation Statutes, at the Land Agency of Santa Fe, on Sept 9 1850 and 2 Sept 1851 make Deposits of funds amounting to $265.71 for the Subdivision of this Township and the Diagonals thereof North and West: For the said West Dist $160.71 and for the Office Work $105. And I further certify that of said deposits for Subdivision $160.71 was expended, agreeably to Instructions to the said Jacob Schuttler nothing due of said deposit for Office Work $105 was expended, leaving a balance due to the said Jacob Schuttler including

Surveyor Generals

Total number of Acres 22448.93

Surveys Designated	By Whom Surveyed	Date of Contract	Journal of Surveys	When Surveyed	Magnetic Declination
Township lines	Taylor & Pearl	Sept 11 1849	M. 182 181	October 1849	12° 10' 18" E.
Subdivisions	Taylor & Pearl	Sept. 11. 1849	180 10 80	Oct. 30 - Nov 6 '49	12° 10' 18" E.

The above Map of Township Nº 31 North of Range Nº 8 West of the Principal Meridian was duly surveyed in the field in conformity to the instructions of the Surveyor General of this Office, which have been examined, and approved.

Surveyor Generals Office
Santa Fe, New Mexico
April 19. 1851.

Surveyor Genl

Case 607 Exhibit A
Lowry

LOWRY OIL COMPANY
T.26N. - R.6W.
RIO ARRIBA COUNTY, N.M.

SOUTH BLANCO TOCITO POOL
RIO ARRIBA COUNTY, N. M.

PRESENT POOL LIMITS

© W.I. WELLS

Exhibit B Case 607
Lowry

LOWRY OIL COMPANY
T.26N. - R.6W.
RIO ARRIBA COUNTY, N.M.

SOUTH BLANCO TOCITO POOL
RIO ARRIBA COUNTY, N. M.

CONTOUR MAP
TOP TOCITO SANDSTONE

© W.I. WELLS

0-1000

Co.	Pool	Disc Well	S-T-R	T.D.	Csg. or Top Pay	Recoverable Res. Bbl.	Rec. Res. $	Prod. Acreage
Eddy	Aid	H Aid #1 Hentz	24-17-28	2840	P.B. 910 - T. Pay 840	8500 -	22,865.00	240 -
"	Cedar Hill (Yates)	G Riggs #1 Welch	5-21-27	551	Pay: 343-355	159,000 -	427,710.00	240 -
"	Dayton	Bassett & Burney #1 Ratt	H 26-18-26	2545	P.B. 1125 - Pay 930	49,425 -	132,953.00	800 -
"	Glenn Castille	Buck Jones #1 Gates	J 27-26-27	883	Pay 877-883	3000 -	8,070.00	40 -
"	McMillan	Yates #1 Bowers	P 30-19-27	1180	P.B. 960 - Pay 845-897	330,000 -	887,700.00	360 -
"	McMillan 7-R	Yates #1 Featherstone	K 32-19-27	361	Pay 249-356	7600 -	20,444.00	80 -
"	Russell	Wills #1 Wills	L 13-20-28	906	Pay 786-849	482,000 -	1,296,580.00	680 -
"	Empire				Pay 350-460	181,400 -	487,966.00	2760 -

Rec Res. Bbl. 1,220,925.00
Rec Res. $ 3,284,288.00
Total Productive Acreage - 5400 No. 40 Acre Units: 135
Res. per 40 Ac. - Bbl 9043.-
Res per 40 Ac. - $ Gr. 24,325.67 Net. 21,284.96
Avg. well cost
Multiple.

1000-2000

Co.	Pool	Disc Well	S-T-R	T.D.	Completion Data	Rec. Res. Bbl.	Rec. Res. $	Prod. Area
Chaves	Acme	Levick #1-B State	B 7-8-27	1990	Pay 1960-1990.	400 -	1076.00	40 -
Eddy	Atoka	Jones & Yates #1 Everest	15-18-26	1524	Pay - 1485	—	—	—
"	Barber	Neil Wills #1 Collazier	20-20-30	1545	Pay 1442-77	328,000 -	882,320.00	520 -
"	Benson	H. Yates #1 Snowden-McSweeney	16-19-30	1836	Pay 1826	328,000 -	882,320.00	240 -
"	Black River	T. Collins #1 Weiler	13-24-26		Pay 1343-63	34,400 -	92,536.00	160 -
"	Burton	Getty #2 Cook & Ironsides	8-20-29	1597	P.B. 1160 - Pay 1105-20	—	—	—
"	Dark Canyon	M. Yates #1 Cordie-King	L 20-23-26	1881	Pay 1876 - csg to 1867	12,800 -	34,432.00	40 -
"	Getty	Getty #2 Dooley	A 23-20-29	1576	Pay 1225-1368	452,700 -	1,217,763.00	400 -
"	High Lonesome	Atkins #1 Iles	P 17-16-29	1821	Pay 1801-21	16,200 -	43,578.00	160 -
"	Millman	Featherstone #1 State	N 18-19-28	2733	P.B. 1895 Pay 1883-89	2000 -	5,380.00	40 -
"	P.C.A.	N. Wells #1 Keyes "C"	F 15-20-30	1661	Pay 1646-61	100,000 -	269,000.00	360 -
"	Red Lake	Etz, Hammond & Keyes #1 St.	P 16-17-28	1964	Pay 1946-59	1,640,000 -	4,411,600.00	4840 -
"	Turkey Track 7-R	S.M. Jones #1 Jones	B 10-19-29	1697	Pay 1655-97	25,000 -	67,250.00	440 -
"	Daugherty	P.B. English #1 Daugherty	N 3-17-27	2014	Pay 1945-2000	11,400 -	30,666.00	80 -

1000-2000

Co.	Pool	Disc Well	S-T-R	T.D.	Completion Data	Rec. Res. Bbl.	Rec. Res. $	Prod. Area
Eddy	Fren				Pay 1810-2280	2,192,800 -	5,898,632.00	4280 -

Rec. Res. - Bbl 5,143,700
Rec. Res. - $ 13,836,553.00
Total Prod. Acreage 11,600 No. 40 Acre Units: 290
Rec. Res. per 40 Ac. - Bbl. 17,737 -
Rec. Res. per 40 Ac. - $ Gross: 47,713.00 Net: 41,749.00
Avg. well cost: 12,900.00
Multiple 3.2364

3000-4000

Co.	Pool	Disc Well	S-T-R	TD	Completion Data	Rec. Res. Bbl.	Rec. Res. $	Prod. Acreage
Eddy	Grayburg - Jackson	Flynn, Welch & Yates #1 Jackson	H 13-17-30	3580	Pay 3477-3505	18,381,000 -	49,444,890.00	15,960 -
"	Grayburg - Keeley	Western #27 Keeley	D 26-17-29	3407	P.B. 3322 Pay 3296-3322	149,600 -	402,424.00	240 -
"	Leo	Martin #1 Gates	N 15-18-30	3245	Pay 3204-41	49,200 -	132,348.00	280 -
"	Robinson	Texas Co. #1 Robinson	K 25-16-31	3886	D.D. 4365 Pay 3884-85	841,000 -	2,262,290.00	1280 -
"	Santo Nino	Keohane #1 Keohane	D 7-19-30	4022	T.Pay 3970-Shot-3908-4022	15,000 -	40,350.00	120 -
"	Shugart	Shugart #1 Coulthard	L 35-18-31	4088	P.B. 3920 Pay 3403-3886	521,000	1,401,490.00	440 -
Lea	Arrowhead	Cont. State S-2 #1	B 2-22-36	3800	DD 3847 Pay 3776	1,600,000 -	4,304,000.00	5280 -
"	Bowers	Tidewater #1 State B	H 14-18-37	4365	P.B. 3860 Pay 3353-59	1,700,000 -	4,573,000.00	3960 -
"	Caprock	Livermore #1 State D	P 30-12-32	4385	P.B. 3052 Pay 3029	3,600,000 -	9,684,000.00	6400 -
"	Cooper - Jal (5-29)	Skelly #1 Joyner	I 26-25-36	3339	Pay 3297-3331	13,500,000 -	36,315,000.00	12,680 -
		Skelly #1 Cooper	12-24-36	3607	Pay 3595			
"	Corbin Yates	Cockburn #5 Corbin	I 9-18-33	4305	P.B. 3464 Pay 3443-59	2600 -	6,994.00	40 -
"	Dollarhide Queen	Skelly #1 Mexico "O"	H 6-25-38		Pay 3670-3753	2,900,000 -	7,801,000.00	1040 -
"	Eunice (Monument)	Cont. Meyers A-17 #1	17-21-36	4001	Csg. to 3908	105,800,000 -	284,602,000.00	41,400 -

3000-4000

Co.	Pool	Disc. Well	S-T-R	T.D.	Completion Data	Rec. Res. Bbl.	Rec. Res. $	Prod. Area
Lea	Pearsall	Barefield & Phipps #1 Walker	5-18-32	3722	Pay 3673-94	526,000 -	1,414,940.00	880 -
"	Penrose - Skelly	Skelly #1 Harrison	5-23-37	3794	P.B. 3762 Pay 3723-62	4,600,000 -	12,374,000.00	16,680 -
"	Rhodes	Texas Co. #1 Rhodes	22-26-37	3213	Pay 3180-3193	775,000 -	2,084,750.00	2360 -
"	San Simon	Skelly #1 State U	5-22-35	4183	PB 4138 Pay 3935-4122	44,000 -	118,360.00	80 -
"	Skaggs	Continental #1 Skaggs	24-20-37	3910	Pay 3724-3873	4,890,000 -	13,154,100.00	2440 -
"	Teas	Teas Dinwin #1	24-20-33	3425	PB 3373 Pay 3343-61	54,000 -	145,260.00	160 -
"	Tonto	Texas Co. #1 Baskin	22-19-33	3585	Pay 3565-75	141,400 -	380,366.00	80 -
"	Watkins	Peckham & Clark #1 Watkins	31-18-32	3578	D.D. 4260 - P.B. 3606 - Pay 3565-3606	45,000	121,050.00	320 -
"	Wilson	Cities Serv. #1 State "B"	8-21-35	3835	Pay 3826-32	4,906,000 -	13,197,140.00	2080 -
"	N. Wilson	Wilson Charlotte St. #4	29-20-36	4201	P.B. 4171 Pay 3590-4171	23,600 -	63,484.00	40 -
"	W. Wilson	Clower #1 State	16-21-34	3948	Pay 3945-48	489,000 -	1,315,410.00	400 -
"	Young	McCurdy #1 Young	20-18-32	1320	D.D. 3783 Pay 3737-78	405,000 -	1,089,450.00	240 -
Eddy	N. Shugart				Pay - 3100-3600	381,000 -	1,024,890.00	1520 -
"	Premier				Pay - 3090-3390	781,000 -	2,100,890.00	2760 -

Rec. Res. - Bbl. 269,950,801 -
Rec. Res. - $ 726,167,652.00 Gross.
No. 40 Acre Units: 4476 Net.
Total Prod. Acreage: 178,040
Rec. Res. per 40 Ac. - Bbl. 60,311
Rec. Res. per 40 Ac. - $ - Gross 162,237.00
Net: 141,957.38
Cost of 3500 well: 38,503.00
Multiple: 3.6872

3000-4000

Co.	Pool	Disc Well	S-T-R	T.D.	Completion Data	Rec. Res. Bbl.	Rec. Res. Bbl.	Prod. Area
Lea	Monument	Amerada #1-D State	1-20-36	3954	P.B. 3945 Pay 3818-3929	(Combined with Eunice)		
"	So. Eunice	Cont. Lockhart B-31 #1	31-21-36	3950	Pay 3865-3959 Csg. to 3344	6,900,000 -	18,561,000.00	6360 -
"	Falby Yates	Amerada #1 Falby	19-24-37	3824	Top Perfs. 3085 - Csg. to 3350	—	—	—
"	Hardy	Texas Co. #1 Alexander	5-21-37	3728	Pay 3705	210,000	564,900.00	1600 -
"	Hobbs (6-28)	Stanolind #1 State	9-19-38	4245	Pay 3490-4314	53,000,000 -	142,570,000.00	10,760 -
"	E. Hobbs 7-R	Hardin & Houston #1 Taylor	25-18-37	3987	Top Perfs. 3850 - Pay 3852	140,600 -	378,214.00	40 -
"	Langlie - Mattix	Cont. Sholes A-19 #1	19-25-37	3940	Pay 3010-30 (T.D. 3035??)	15,430,000 -	41,506,700.00	28,000 -
		A.G. Carter #1 Mattix	2-24-37	3913	P.B. 3861 Pay 3543-3652			
"	Leonard	Leonard #1 Leonard Fed.	11-26-37	3511	Pay 3400-3442	23,600 -	63,484.00	120 -
"	S. Leonard	Plains Prod. #1 Scarborough	24-26-37	3440	Pay 3438-3440	426,000 -	1,145,940.00	640 -
"	Lynch	Texas Co. #1 Lynch "A"	34-20-34	3731	Pay 3728-3731	2,200,000 -	5,918,000.00	960 -
"	N. Lynch	Hend. Dexter & Blair #1 McD. Jewett	18-20-34	3612	Pay 3522-3549	31,000 -	83,390.00	40 -
"	Maljamar	Malj. O&G #1 Baish	21-17-32	4140	Pay 3885 Csg. to 3590	24,400,000 -	65,636,000.00	11,360 -
"	N. Maljamar	Carper-Taylor #1 Taylor	30-16-32	4097	PB 4015 Pay 3880	69,200 -	186,148.00	200 -

4000-5000

Co.	Pool	Disc. Well	S-T-R	T.D.	Completion Data	Rec. Res. Bbl.	Rec. Res. $	Prod. Area
Lea	Corbin	Helmrich & Payne #1 Corbin	L 10-18-33	5718	PB 4320 Pay 4258-4315	280,000 -	753,200.00	440 -
"	House S.A.	Stanolind #1 House	11-20-38	4440	PB 4347 Pay 4276-4296	175,000 -	470,750.00	580 -
"	Littman S.A.	Penrose #1 Numex	16-21-38	4352	Pay 4324-52	—	—	—
"	Lovington	Skelly State N #1	36-16-36	5012	Pay 4675	3,700,000 -	9,953,000.00	2400 -
"	S. Maljamar	Malj. O&G #2-X Chessman	22-18-32	4840	P.B. 4795 Pay 4400-4790	15,000 -	40,350.00	40 -
"	Roberts	McLaughlin-Cosden #1 State	7-17-33	4230	Pay 4195	850,000 -	2,286,500.00	1920 -
"	Sawyer	Devonian #1 Brown Fed.	19-9-38	5011	Pay 4926-5011	32,600 -	87,694.00	80 -
"	Vacuum	Socony #1 St. Bridges	13-17-34	4900	Csg. to 4402	59,300,000 -	159,517,000.00	18,240 -
"	Watkins Grayburg	Peck & Clark #1 W Hightower	31-18-32	3569	D.D. 4252 Pay 4217-52	28,800 -	77,472.00	40 -
"	E. Maljamar	Jalenn #1-16 Phillips St.	16-17-33	4574	PB 4564 Pay 4340	22,000 -	59,180.00	40 -
Roos.	Bluitt S.A.	[illegible]	12-8-38	4802	Acid 4703-4802	16,500 -	44,385.00	80 -
	Lovington, Penn.	[illegible]	4-17-36	5175	PB 5150 Pay 4700-4960	4,000,000		2560

Rec. Res. Bbl. 64,419,900
Rec. Res. - $ 173,287,531.00
Total Prod. Acreage 23,860 No. 40 Acre Units: 596.5
Res. per 40 Acres - Bbl 107,996 -
Res. per 40 Acres $ Gross 290,509.24 Net 254,195.58
Cost of 4500 ft. well: 51,250.00 Multiple: 4.9599

2000-3000

Co.	Pool	Disc. Well	S-T-R	T.D.	Completion Data	Rec. Res. Bbl.	Rec. Res. $	Prod. Area
Ch.	Chisum S.A.	Keller & Peterson St. H #1	J 13-11-27	2065	P.B. 2056 Pay 2053-56	49,000 -	131,810.00	120 -
"	Drickey - Queen	Penrose #1 Zimmerman	10-14-31	2831	Pay 2825 csg to 2824	—	—	—
Eddy	Anderson	M. Anderson #1 Root	12-17-29	2563	Pay 2512-57	580,000 -	1,560,200.00	2000 -
"	Artesia	Flynn Welch & Yates #1 State	31-18-28	2072	Pay 2072	2,830,000 -	7,612,700.00	9000 -
"	Forest	F. Levers #1 Levers	H 34-16-29	3027	P.B. 2675 - Pay 2660-69	388,600 -	1,045,334.00	760 -
"	Loco Hills	Yates #1 Yates	L 6-18-30	2874	Pay 2806-38	8,210,000 -	22,084,900.00	10,080 -
"	Loco Hills Queen	Woolley #7 Woolley	D 29-17-30	2781	P.B. 2239 D.D. 3076 - Pay 2205-19	6000 -	16,140.00	40 -
"	West Lusk	English #1 Hinkle	A 22-19-31	2599	Pay 2385-2407	3900 -	10,491.00	80 -
"	Malaga	So. Cal. #1 Valley Land.	F 7-24-29	2779	Pay 2771-76	697,900 -	1,877,351.00	880 -
"	Nichols	H. Yates #1 Ohio State	K 13-18-28	2938	Pay 2919	135,500 -	364,495.00	360 -
"	Square Lake	Sanders #1 Leonard-Fed.	L 34-16-30	2980 - D.D. 3110	Pay 2912-3110	5,630,000 -	15,144,700.00	9680 -
"	Turkey Track	McKee #2 State	P 3-19-29	2815	P.B. 2710 Pay 2575	203,000 -	546,070.00	640 -
"	East Turkey Track	Leonard #1 Keohane	M 6-19-30	2930	P.B. 2244 Pay 2220-44	44,100 -	118,629.00	120 -
"	West Turkey Track	Miller #1 Jones-Watkins	F 5-19-29	2785	P.B. 2757 Pay 2745-57	2000 -	5,380.00	120 -

2000-3000

Co.	Pool	Disc. Well	S-T-R	T.D.	Completion Data	Rec. Res. Bbl.	Rec. Res. $	Prod. Area
Lea	Baish (12-35)	Maljamar O&G #5 Baish "A" G	21-17-32	2370	D.D. 4119 P.B. 4113 - Pay 2350	240,000 -	645,600.00	320 -
"	Eaves (6-28)	Continental #1 Eaves A-19	O 19-26-37	3000	Pay 2895-2927	6,200,000 -	16,678,000.00	2000 -
"	Halfway	Argo #1-B Texas State	16-20-32	3763	Pay 2627	260,000 -	699,400.00	410 -
"	Lusk	Bird-Frost #1-E Miller	19-19-32	2634	Pay 2455-2634	26,000 -	69,940.00	200 -

Rec. Res. Bbl. 25,506,000 -
Rec. Res. $ 68,611,140.00
Prod. Acreage 36,800 No. 40 Acre Units 920
Res. per 40 Ac. Bbl. 27,724
Res. per 40 Ac. $ Gross: 74,577.56 Net: 66,130.37
Avg. Well Cost: 25,750.00
Multiple: 2.5682

0-5000

POOL	REC. RESERVES (BBL)	VALUE @ 2.69/BBL.	PRODUCTIVE ACREAGE
[illegible]	8500 -		240 -
ANDERSON	580.000 -		2000 -
ARTESIA	2,830 000 -		9000 -
ATOKA	—		—
BARBER	328.000 -		520 -
BENSON	328 000 -		240 -
BLACK RIVER	34 400 -		160 -
BURTON	—		—
CEDAR HILLS (YATES)	159 000 -		240 -
DARK CANYON	12 800 -		40 -
DOUGHERTY	11 400 -		80 -
DAYTON	49 425 -		800 -
EMPIRE	131 400 -		2960 -
FOREST	378 600 -		760 -
FREN	2,192,800 -		4280 -
GETTY	452 700 -		400 -
GLENN-CASTILE	2000 -		40 -
GRAYBURG JACKSON	17,381,000 -		15 960 -
GRAYBURG KEELEY	149 600 -		240 -
HIGH LONESOME	16 200 -		160 -
LEO	49 200 -		280 -
LOCO HILLS	8,210,000 -		10 080 -
LOCO HILLS (REPRESS.)	—		—
LOCO HILLS (QUEEN)	6000 -		80 -
LUSK, WEST	3900 -		80 -
MALAGA (DELAWARE)	697 900 -		880 -
McMILLAN	330 000 -		360 -
McMILLAN (7-R)	7600 -		80 -
MILLMAN (GRAYBURG)	2000 -		40 -
NICHOLS	135 500 -		360 -
P C A.	100 300 -		360 -
PREMIER	781 000 -		2560 -
RED LAKE	1,640 000 -		4840 -
ROBINSON	841 000 -		1280 -
RUSSELL	482.000 -		680 -
SANTO NINO	15 000 -		120 -
SHUGART, NORTH	381 000 -		1520 -
SHUGART	521 000 -		440 -
SQUARE LAKE	5,630,000 -		9680 -
TURKEY TRACK	203 000 -		640 -

0-5000 CONT.

POOL	REC. RESERVES BBL	VALUE @ 2.69/BBL	PRODUCTIVE ACREAGE
TURKEY TRACK EAST	44 100 -		120 -
TURKEY TRACK 7-R	25 000 -		440 -
TURKEY TRACK WEST	2000 -		120 -
ACME	400 -		40 -
ARROWHEAD	1,600 000 -		5280 -
BAISH	240 000 -		320 -
BLUITT SA	16 500 -		80 -
BOWERS	1,700 000 -		3960 -
CAPROCK	3,600 000 -		6400 -
CHISUM SA	49 000 -		120 -
COOPER JAL	13,500 000 -		12 680 -
CORBIN	280 000 -		440 -
CORBIN YATES	2600 -		40 -
DOLLARHIDE QUEEN	2.900 000 -		1040 -
DRICKEY QUEEN	—		—
EAVES	6,200 000 -		2000 -
EUNICE-MONUMENT	105,800 000 -		41 400 -
EUNICE-SOUTH	6.900 000 -		6360 -
FRENCH-YATES	—		—
HALFWAY	260 000 -		400 -
HARDY	210,000 -		1600 -
HOBBS	53,000 000 -		10 760 -
~~HOBBS EAST SA~~	~~6,100 000~~		~~760~~
HOUSE SAN ANDRES	175 000 -		580 -
LANGLIE MATTIX	15,430 000 -		28 000 -
LEONARD	23 600 -		120 -
LEONARD SOUTH	426 000 -		640 -
LITTMAN S.A.	—		—
LOVINGTON	3.700 000 -		2400 -
LOVINGTON WEST	4000 000 -		2560 -
LUSK	26 000 -		200 -
LYNCH	2,000,000 -		960 -
LYNCH NORTH	31 000 -		40 -
MALJAMAR	24,400 000 -		11 360 -
MALJAMAR REPRESS.	22 000 -		40 -
MALJAMAR EAST	—		—
MALJAMAR NORTH	67 200 -		200 -
MALJAMAR SOUTH	15 000 -		40 -
PEARSALL	526 000 -		880 -
PENROSE SKELLY	4,600 000 -		16 680 -
RHODES	775 000 -		2360 -

0-5000'

POOL	REC. RESERVE (BBL)	VALUE @ 2.69/BBL.	PRODUCTIVE ACREAGE
ROBERTS	850 000 -		1920 -
SAN SIMON	44 000 -		80 -
SAWYER	32 600 -		80 -
SKAGGS	4.890 000 -		2440 -
TEAS	54 000 -		160 -
TONTO	141 400 -		80 -
VACUUM	59,300,000 -		18,240 -
WATKINS	45 000 -		320 -
WATKINS-GRAYBURG	28 800 -		40 -
WILSON	4,906,000 -		2080 -
WILSON NORTH	23 600 -		40 -
WILSON WEST	489 000 -		400 -
YOUNG	405,000 -		240 -
HOBBS-EAST 7-R	140 600 -		40 -

TOTAL ACREAGE (PRODUCTIVE) 256,710 NO. 40 ACRE UNITS: 6417.5

REC. RESERVES (BBL) 366,241,305
REC. RESERVES ($)

REC. RESERVES per 40 ACRES: (BBL) 57,069
REC. RESERVES per 40 ACRES ($) 153,515.61 NET: 134,326.16

AVG COST OF WELL 41,800.00 @ 3601 FT.

MULTIPLE 3.2135

5000-6000

POOLS	REC. RESERVES (BBL)	REC. RESERVES ($) @ 2.69/BBL	PROD. ACREAGE
BLINEBRY	400 000 -	1,076,000.00	640 -
CARTER S.A.	2000 -	5,380.00	40 -
MONUMENT BLINEBRY	2,300 000 -	6,187,000.00	1180 -
MONUMENT PADDOCK	845 000 -	2,273,050.00	360 -
GARRETT	21,000 -	56,490.00	120 -
MALJAMAR PADDOCK	330 000 -	887,700.00	120 -
PADDOCK	10,400 000 -	27,976,000.00	6640 -
TERRY BLINEBRY	370 000 -	995,300.00	360 -

TOTAL PRODUCTIVE ACREAGE 9460 NO. 40 AC. UNITS: 236.5

REC RESERVES BBL. 14,668,000
REC. RESERVES $ 39,456,920.00

REC. RESERVES PER 40 ACRES BBL. 62,021
REC. RESERVES PER 40 ACRES $ 166,836.49 NET 145,981.92

AVG. COST OF WELL 82,650.00

MULTIPLE 1.7663

6000-7000

POOL	REC. RESERVES BBL	REC. RESERVES $	PROD ACREAGE
CHISUM DEVONIAN	350,000 -	941,500.00	80 -
DOLLARHIDE DRINKARD	5,100,000 -	13,719,000.00	1500 -
DRINKARD	31,200,000 -	83,928,000.00	25760 -
HOBBS DRINKARD	13 300 -	35,777.00	40 -
HOBBS EAST BLINEBRY	20 000 -	53,800.00	40 -
HOUSE	740 000 -	1,990,600.00	360 -
LOVINGTON PADDOCK	4,500 000 -	12,105,000.00	1600 -
WARREN DRINKARD	117 000 -	314,730.00	240 -
WEIR	31 000 -	83390.00	40 -
HOBBS E. S.A.	6,100,000 -	16,409,000.00	760 -

TOTAL PRODUCTIVE ACREAGE 30,420 NO. 40 AC UNITS: 760.5

REC RESERVES BBL. 48,171,300
REC RESERVES $ 129,580,797.00

REC RESERVES PER 40 AC. BBL 63342
REC RESERVES PER 40 AC. $ 170,389.98 NET. 149,091.23

AVG COST OF WELL 104,250.00

MULTIPLE 1.4301

7000-8000

POOL	REC. RESERVES BBL	REC. RESERVES $	PRODUCTIVE ACREAGE
BRUNSON	44,400 000 -	119,436,000.00	7080 -
CARY	290 000 -	780,100.00	120 -
CASS	2,400 000 -	6,456,000.00	240 -
FOWLER FUSSELMAN	—	—	—
HARE	21,700 000 -	58,373,000.00	3840 -
HARE SOUTH	21 000 -	56,490.00	160 -
LIGHTCAP	26 000 -	69,940.00	80 -
LONE WOLFCAMP	—	—	—
McCORMACK	142 000 -	381,980.00	80 -
NADINE	37,000 -	99,530.00	120 -
TEAGUE DEVONIAN	388 000 -	1,043,720.00	120 -
TWIN LAKES	4000 -	10,760.00	40 -
WANTZ ABO	1,660,000 -	4,465,400.00	600 -

TOTAL PRODUCTIVE ACREAGE 12,480 NO. 40 AC. UNITS: 312

REC. RESERVES - BBL 71,068,000
REC. RESERVES - $ 191,172,920.00

REC RESERVES PER 40 AC. - BBL 227,782
REC RESERVES PER 40 AC. - $ 612,733.58 NET. 536,141.88

AVG. COST OF WELL 126,100.00 4.2517

MULTIPLE

8000-9000

POOL	REC RESERVES - BBL	REC RESERVES - $	PRODUCTIVE ACREAGE
CAPROCK, EAST WOLFCAMP	220.000 - 591,800.00		300 -
DOLLARHIDE DEVONIAN	1,400,000 - 3,766,000.00		600 -
DOLLARHIDE FUSSELMAN	800 000 - 2,152,000.00		280 -
[illegible] PENN.	277.000 - 745,130.00		160 -
[illegible] ABO	5,920,000 - 15,924,800.00		1640 -
MESCALERO PENN.	1,100,000 - 2,959,000.00		240 -
WHITE RANCH S/D	1,960 000 - 5,272,400.00		80 -

TOTAL PRODUCTIVE ACREAGE 3360 NO. 40 AC. UNITS: 82.5

REC RESERVES - BBL 11,677,000
REC RESERVES - $ 31,411,130.00

REC RESERVES PER 40 AC - BBL 141,539
REC RESERVES PER 40 AC - $ 380,739.91 NET 333,147.42

AVG. COST OF WELL 148,100.00

MULTIPLE 2.2495

9000-10000

POOL	REC. RESERVES - BBL.	REC. RESERVES - $	PRODUCTIVE ACREAGE
ANDERSON RANCH W.C.	5,995,000 -	16,126,550.00	800 -
BAGLEY PENN.	4,000,000 -	10,760,000.00	1840 -
BOUGH	2,600,000 -	6,994,000.00	1360 -
CROSSROADS PENN.	1,782 000 -	4,793,580.00	760 -
DENTON WC	7,500,000 -	20,175,000.00	2640 -
DUBLIN DEV.	8500 -	22,865.00	40 -
FOWLER	3,900,000 -	10,491,000.00	960 -
GLADIOLA WOLFCAMP	2,600,000 -	6,994,000.00	700 -
LAZY J	780,000 -	2,098,200.00	360 -
MESCALERO DEV.	3,100,000 -	8,339,000.00	240 -
MOORE PENN.	108,000 -	290,520.00	120 -
SAUNDERS	19,600,000 -	52,724,000.00	2840 -
TEAGUE	1,680,000 -	4,519,200.00	480 -
TEAGUE ELLENBURGER	3,300,000 -	8,877,000.00	480 -
TULK WC	1,920,000 -	5,164,800.00	840 -
WARREN McKEE	3,940,000 -	10,598,600.00	600 -
WARREN McKEE NORTH	3,000,000 -	8,070,000.00	800 -

TOTAL PRODUCTIVE ACREAGE 15,860 NO. 40 ACRE UNITS: 396.5

REC. RESERVE - BBL 65,813,500
REC. RESERVE - $ 177,038.32

REC. RES. PER 40 AC - BBL 165,986
REC RES. PER 40 AC - $ 446,502.34 NET: 390,689.54

AVG. COST OF WELL 169,900.00
2.2995

MULTIPLE

110

10,000 - 11,000

POOL	REC. RESERVES - BBL.	REC. RES. - $	PRODUCTIVE ACREAGE
BAGLEY S/D	29,000,000 -	78,010,000.00	1600 -
CAPROCK, EAST PENN.	25 000 -	67,250.00	40 -
DOLLARHIDE ELLENBURGER	1,150,000 -	3,093,500.00	560 -
EIDSON PENN.	1,320,000 -	3,550,800.00	320 -
HIGHTOWER DEV.	330,000 -	887,700.00	240 -
KING WC	259 000 -	696,710.00	40 -
LOVINGTON WC	600,000 -	1,614,000.00	160 -
MOORE DEV.	2,500,000 -	6,725,000.00	600 -
SAUNDERS, SOUTH	76,700 -	206,323.00	120 -
TOWNSEND WC	319 000 -	858,110.00	400 -

TOTAL PRODUCTIVE ACREAGE 4020 NO. 40 ACRE UNITS: 100.5

REC. RES. - BBLS 35,577,700
REC. RES. - $ 95,709,393.00

REC. RES. PER 40 AC. - BBL 354,027
REC. RES. PER 40 AC. - $ 952,332.63 NET 833,291.05

AVG. COST OF WELL 194,000.00
4.2953

MULTIPLE

11,000 - 12000

Pool	Rec. Res. - Bbl	Rec. Res. - ƒ	Prod. Acreage
Branch S/D	7,320,000 -	41,085,840.00	320 -
Carson, East Dev.	4,390,000 -	18,438,010.10	132 -
Denton Dev.	56,620,000 -	148,704,620.00	3,578 -
Peters Dev.	2,240,000 -	5,918,004.80	240 -
Livingston, East Pool.	650,000 -	1,748,600.00	40 -

Total Productive Acreage 5000 sq. 40 acre units. 125

Rec Res. - Bbl	24,132,000
Rec Res. - ƒ	114,247,280.10
Rec Res per 40 Ac. - Bbl	322,576
Rec Res per 40 Ac. - ƒ	1,523,722.18 NET 1,349,257.17
Av. cost of well	230,750.20
Multiple	5.7917

12,000 - 13000

Pool	Rec Res. Bbl.	Rec. Res. - ƒ	Prod. Acreage
Crossroads	6,640,000 -	17,254,400.00	920 -
Ector - Dev. North	39,000 -	101,868.00	80 -
Gingivan Dev.	2,520,000 -	7,332,000.00	440 -
Knowles	2,240,000 -	6,854,400.00	600 -
Shoe Bar Dev.			

Total Productive Acreage 2040 sq. 40 acre units - 51

Rec Res. - Bbl.	11,693,000
Rec Res. - ƒ	31,443,470.00
Rec Res. Per 40 Ac. - Bbl.	203,196
Rec Res. Per 40 Ac. - ƒ	614,537.49 NET 539,470.09
Av. cost of well	280,600.00
Multiple	1.9232

13000 - 14000

Pool	Rec. Res. - Bbl	Rec. Res. - ƒ	Productive Acreage
Andrews Ranch Dev.	34,944,000 -	62,899,256.00	1,000 -
Mallanna Dev.	160,000 -	430,400.00	40 -

Total Productive Acreage 1040 sq. 40 acre units - 26

Rec Res. - Bbl.	35,104,000
Rec Res. - ƒ	63,329,656.00
Rec Res. per 40 Ac. - Bbl.	337,538
Rec Res. Per 40 Ac. - ƒ	2,524,333.52 NET 2,270,794.83
Av. Cost of well	374,662.00
Multiple	6.7331

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Discovery Data for Pools 0-5000

County / Pool	Date	Company - Lease	STR	T.D.	Csg. & Perfs.		0-5000
Hobbs	6-28	Stanolind #1 State	9-19-38	4645	3950 - 4314		3000-4000
E. Hobbs SA	1-51	Amerada Simms, Lewis #2-A	15-18-37	6702	Csg to 6515', TD 6765	——— old 2 Haddock	
E. Hobbs JR		Hobbs & Hobbs #1 Hobbs	23-19-38	3969	TD 3850 - Typed 3860		3000-3500
House SA	1-50	Stanolind #1 House	11-20-28	4440	PB 4347 4232-4336		4000-5000
Langlie Mattix	1-28 7-35	Gulf & Sinclair #1 Fly Gulf & Sinclair #1 Austin	17-25-37 5-25-37	3140 3140 PB	3040-3120, 3130-50 3040 & 3120-3140		3000-4000
Leonard	6-48	Leonard Oil Co. #1 Leonard	11-26-37	3871			3000-4000
S. Leonard	2-56	Plains Prod Corp. #1 Scarborough	22-26-37	3440	3408 - 3440		3000-4000
Littman SA	5-53	Pickrell #1 Mosher	14-21-38	——	4352 P. 4324-4362		4000-5000
Lovington W. Lovington	1-39	Skelly St. N #1 Pure Oil & Sklar Jr. #1-B State	34-16-36 4-17-36	5012 4795	TP 4705 PB 5320 Perf 4921-4960 (?)		4000-5000
Lusk	11-41	Bass Frost TR Miller	19-19-32	8694	3482-3490 (?)		2000-3000
Lynch	4-39	Texas Co #1 Lynch N	36-20-34	3331	3221-3251		3000-4000
N. Lynch	8-39	American Petrofina #1 Jester	17-20-37	3263	D-4		3000-4000
Maljamar	7-36	Mal. Oil & Gas #1 Bass	21-17-32	4440	Csg 3823 TD 3885		3000-4000
E. Maljamar	4-49	Gulf Prod #16 Empire St	16-17-32	4574 PB 4564	TP 4340		4000-5000
N. Maljamar	6-39	Carper, Tarpley #1 Tarpley	31-16-32	4059 PB 4044	TP 3880		3000-4000
S. Maljamar	7-43	Mal. Oil Corp. #2 Christman	22-17-32	4440 PB 4395	4400-4420		4000-5000
Pearsall	1-46	Barber & Phipps #1 Walker	5-18-32	3322	TP 3273-94		3000-4000
Penrose-Skelly	3-36	Skelly #1 RF Harrison	5-23-37	3794	PB 3762 P3723-62		3000-4000
Rhodes	11-37	Texas Co. #1 Rhodes	22-26-37	3830	3810-3830		3000-4000
Robbins	8-43	McLaughlin & Gates #1 State	7-17-33	4630	TP 4135		4000-5000
San Simon	10-43	Skelly #1 State U	22-25-35	4183	PB 4132 P 3935-4122		3000-4000

Discovery Data for Pools 0-5000

Pool	Date	Company - Lease	STR	T.D.	Csg. & Perfs.	0-5000
Sawyer	1-49	Dawson Oil Co #1 Brown Fed.	19-9-38	5411	4726-5011	4000-5000
Skaggs	3-37	Cont. #1 Skaggs	24-20-37	3910	3397-3898	3000-4000
Teas	3-51	Jake Simmons #1	24-20-33	3425 PB	3373 P. 3343-61	3000-4000
Tonto	6-44	Texas Co. #1 Baskin	22-19-38	3835	3805-3835	3000-4000
Vacuum	5-29	Socony-Vac. Simms #1	18-17-36	4100	Csg to 1452	4000-5000
Watkins (?)	5-45	Pickrell-Clark #1 Williams	34-18-32	3518 PB 4060 TD 4060	P. 3652-3716	3000-4000
Watkins-Sinclair	12-49	Pick & Clark #1 Lightsey	21-18-32	3549	3525 P. 3497-3512	4000-5000
Wilson	8-28	Cities Service #1 SR [illegible]	2-20-36	3850	T.P. 3826-34	3000-4000
N. Wilson	N-51	Wilcox Chastain St. #4	29-20-36	4201	PB 4171 3870-4171	3000-4000
W. Wilcox	10-48	Glover #1 State	16-20-34	3948	3916-48	3000-4000
Young	2-45	McCurdy #1 Young	20-18-32	3899	3888 P 3837-38	3000-4000
Roosevelt-Blu[illegible] SA						

Discovery Data - Pools 0-5000

County / Pool	Date	Company, Well No. S-T-R	T.D.	Csg. & Perfs.	0-1000
Eddy-Chaves-Roosevelt					
Glass-Castle		B. Lee #1 Lewis J 21-21-27	3823	3797-3823	
Grayburg-Jackson	3-37	Fay #1 Jackson H-13-17-30	3850	3777-3805	3000-4000
Grayburg-Kelly	3-48	Western #27 Kelly D 26-17-29	3409 PB 3322	3252-3322	3000-4000
Hagerman	11-39	Nelson #1 Ilfeld P 17-16-29	1934		1000-2000
Ida	2-39	Martin #1 Bates N 15-18-30	2345	3247-61	3000-4000
Lake Arthur	2-37	Yates #1 Yates L 6-19-30	2374	2356-58	2000-3000
Lake Arthur East	4-49	R.R. Westley #7 Westley D 23-17-30	3521 PB 3319, OL 3350	TP 2605-19	2000-3000
Lake Arthur W.	5-44	English #7 Hinkle A 22-17-31	2554	2515-1437	2000-3000
Loco Hills	6-51	S. Cal. #1 Valley Land F 7-24-29	2797	TP 2720	2000-3000
N. Millman	12-38	Yates #1 Bowers P 30-19-27	1180 PB 962	945-65 894-99	0-1000
Millman-Penrose	11-50	Yates #1 Frankenreiter K 30-19-27	261	2[illegible]-250	0-1000
Millman	8-51	Frankenreiter #1 State N 18-19-28	2732 PB 2695	1842-89	1000-2000
Nichols	6-48	H. Yates #1 Chisholm N 13-18-28	2958	TP 2844	2000-3000
P.C.A.	12-37	H. Wells #1 Hayes "C" F 15-20-30	1661	1512-21	1000-2000
Premier					3000-4000
Red Lake	1924	Ida Hammond Hayes #1 State P 16-17-28	1950	1942-54	1000-2000
Robinson	8-27	Texas #1 Robinson K 25-16-31	2866 OD	2565 2611-85	2000-3000
Russell	3-42	Wells #1 Wells L 13-20-28	706	716-749	0-1000
San Simon	1-51	Mahone #1 Mahone D 7-17-30	4622	3687-17 3926-4022	3000-4000
Signet	7-37	Shipper #1 Cauthorn L 35-18-31	4657 PB 3920	3705-3887	3000-4000
[illegible]					3000-4000

Discovery Data - New Mexico Pools - 0-5000

County / Pool	Date	Company / Lease	Well No.	S-T-R	T.D.	Csg. & Perfs.	0-1000
Square Lake	11-41	Sanders Bros	#1 Leonard-Hill	L 34-16-30	2667	2510-2712 - 4[illegible], also 3285-3316 after OD (1965)	2000-3000
Turney Track	1943	Noble	#2 State	P 3-19-29	1815 PB 2240	2015-2040	2000-3000
E. Turney Track	4-50	Lodondo	#1 Korhaac	M 6-18-30	1930 PB 2240	2221-44	2000-3000
Turney Track-TR	1950	Jones	#1 Jones	B 10-19-29	1617	1601-17	1000-2000
Turney Track (W)	5-51	Miller Bros	#1 Jones-West	F 5-19-29	2332 PB 2329	2242-53	2000-3000
LEA							
Arrowhead	5-38	Continental States-B	#1	B 2-20-36	3800 3[illegible]3	TD 3776	3000-4000
Baish	12-35	Mallamon	#1 S. Baish A	G 21-17-32	2330 OD 4119	PB 4113 2100-30 & 3195-3315	2000-3000
Bowers	10-35	Tidewater	#1 State B	H 18-18-37	4365 PB 3760	3555-59	3000-4000
Caprock	10-40	Livermore	#1 STATE D	P 30-12-32	4385 PB 3652	TP 3229	3000-4000
Cooper Jal	5-29	Skelly	#1 Jayana	I 23-25-36	3387-3321	3378	3000-4000
Cooper	6-38	Helmerich-Payne	#1 Corbin	L 16-18-33	5114 PB 4320	P. 4268-4405	4000-5000
Corbin	4-52	Cockburn	#5 Corbin	I 7-18-33	4355 PB 3464	P. 3443-58	3000-4000
Dollarhide-Queen	4-52	Skelly	#1 Mexico O	6-25-38	3470-3758		3000-4000
Eaves	6-38	Continental	#1 Eaves A	19 O	19-24-37	3[illegible] 3[illegible]-3527	3000-4000
Eunice	3-37	Carl. Magnolia	#1 A-D		21-21-36	3601 3[illegible] 3505	3000-4000
Monument		Cimarron	#1-D	St. - O -	1-20-36	3554 PB 3445 P 3212-3339	3000-4000
S. Eunice	5-39	Carl. & Ind.	#1 Kirkham	T 31-21-36	3950	P 3845-3959 Csg. 3394	3000-4000
Faby-Yates		Amerada	#1 Faby		3764	16[illegible] 3015 Csg. 3350	3000-4000
Halfway	6-39	Mesa	#1-S Texas State		16-20-32	3763 TP 2627	2000-3000
Hendy	3-37	Texas Co.	#1 Alexander		5-21-37	3768 TP 3705	3000-4000

Discovery Data - New Mexico Pools - 0 - 5000'

County / Pool	Date	Company - Lease	Well No.	S-T-R	T.D.	Csg. & Perfs.	0-1000
Chaves							
Acme	11-35-50	Jennie	No 1-B State B	7-8-27	1990	1961-70	1000-2000
Caisson S.A.	6-18-51	Noble & Patterson, State A-35		13-11-27	2065 PB 2036	2023-36	2000-3000
Drinkey Queen		Pearce	#1 Cunningham	18-14-31	2731	Csg. to 2824, TP 2525	2000-3000
Eddy							
Aid	7781	[illegible]	#1 Wood	24-17-28	2946	PB 910 TP 849	0-1000
Anderson	2-21-46	H. Anderson	#1 Rust	12-17-29	2563	2512-59	2000-3000
Artesia	8-23	F. Wiley	#1 State	31-18-28	2472	TP 2092	2000-3000
Atoka	3-30-41	Jones-Yates	#1 Everett	15-18-26	1974	TP 1825	1000-2000
Barber	2-26-37	Neil Wells	#1 Colpitts	20-20-30	1545	1492-1543 1549-77	1000-2000
Bryan	7-20-43	H. Yates	#1 Sec. 18 Swinney	11-19-30	1836	1824	1000-2000
Black River	10-37	T. Collins	#1 Wiseman	13-24-26		1343-1362	1000-2000
Burton	7-34	Getty	#2 Cain-Sec.	8-20-29	1597 PB 1460	1115-1120	1000-2000
Cedar Hill (Yates)	4-51	G. Epps	#1 Welch	5-21-27	561	383-555	0-1000
Dark Canyon	7-50	H. Yates	#1 Wyo. L	24-23-26	1891	TP 1876 plug to 1867	1000-2000
Daugherty	11-38	English	#1 Daugherty N	3-27-27	2014	1945-2000	1000-2000
Dayton	9-40	Bolack-Disney	#1 Hart M	26-18-26	2645	I.P. 1125 T.P. 930	0-1000
Empire					2612"		0-1000
Forest	10-45	F. Hayes	#1 Jones H	34-17-29	3027 PB 2675	P. 2660-69	2000-3000
Fren							
Getty	11-27	Getty	#2 Dealy A	23-20-29	1576	1535-1568	1000-2000

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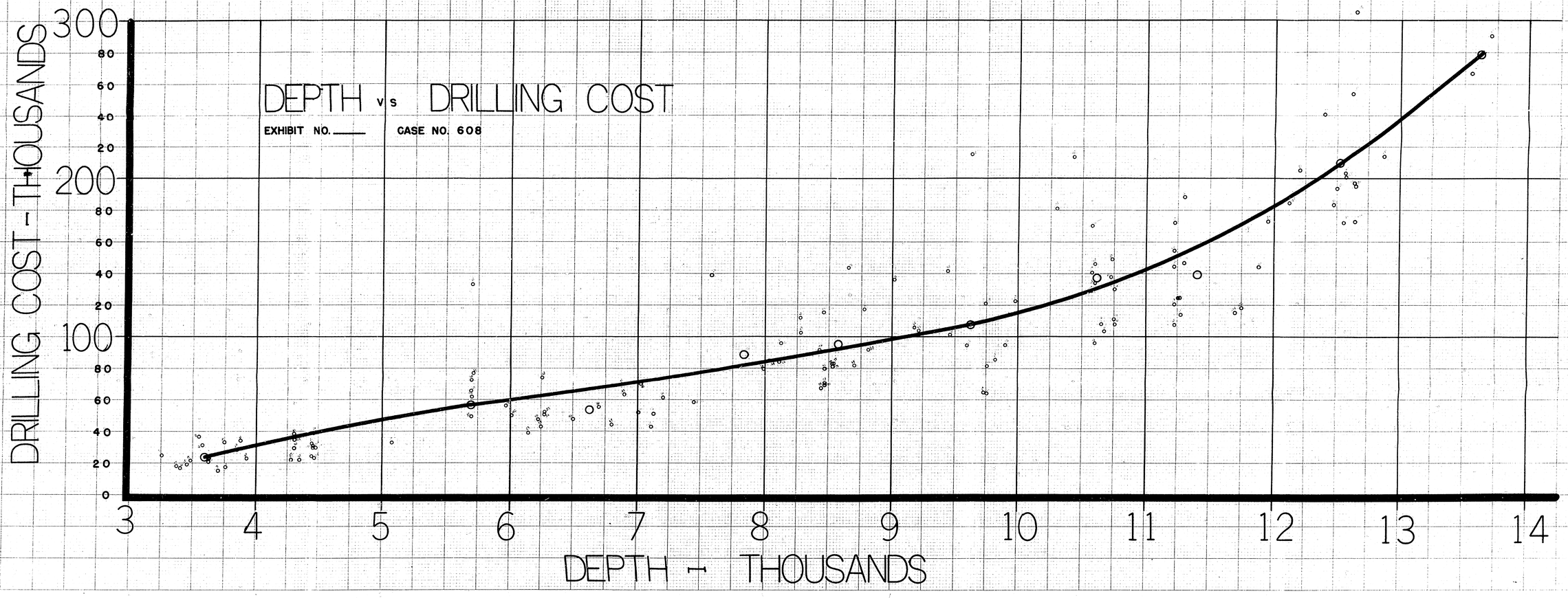
DEPTH vs DRILLING COST

EXHIBIT NO. ____ CASE NO. 608



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DEPTH BRACKET ALLOWABLES - STATE OF NEW MEXICO

1. Effect of Proposed Plans on Top Allowable Wells

Depth Bracket	Number of Top Allow. Wells	Present Status			Plan I				Plan II			
		Depth Bracket Factor	Top Per Well Allow.	Total Allow. Assigned Top Allow. Wells	Average Well Cost	Depth Bracket Factor	Top Per Well Allow.	Total Allow. Assigned Top Allow. Wells	Average Well Cost	Depth Bracket Factor	Top Per Well Allow.	Total Allow. Assigned Top Allow. Wells
0 - 2000	11								20,000	0.40	16	176
2000 - 4000	638								50,000	1.00	39	32,682
4000 - 5000	255								73,000	1.46	57	14,535
0 - 5000	1304	1.00	40	44,160	50,000	1.00	40	44,160				
5000 - 6000	42	1.33	54	2,268	95,000	1.90	76	3,192	95,000	1.90	74	3,108
6000 - 7000	51	1.77	71	3,621	117,500	2.35	94	4,794	117,500	2.35	92	4,692
7000 - 8000	94	2.33	94	8,836	140,000	2.80	112	10,528	140,000	2.80	109	10,246
8000 - 9000	42	3.00	120	5,040	162,500	3.25	130	5,460	162,500	3.25	127	5,334
9000 - 10000	189	3.77	151	28,539	185,000	3.70	148	27,972	185,000	3.70	144	27,216
10000 - 11000	41	4.67	187	7,667	218,000	4.36	174	7,134	218,000	4.36	170	6,970
11000 - 12000	114	5.67	227	25,878	266,500	5.33	213	24,282	266,500	5.33	208	23,712
12000 - 13000	17	6.75	270	4,590	327,500	6.55	262	4,454	327,500	6.55	255	4,335
13000 - 14000	3	8.00	320	960	400,000	8.00	320	960	400,900	8.00	312	936
Totals	1697			131,559				132,936				133,942

2. Effect of Proposed Plans on Total Statewide Allowables

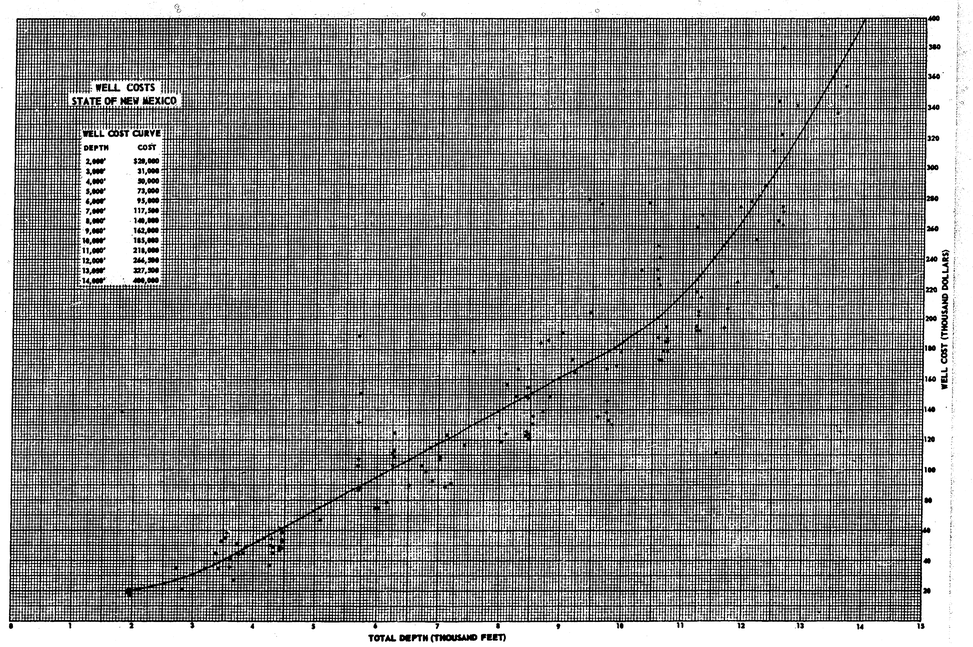
	Present Status	Plan I	Plan II
Allowable Assigned Top Allowable Wells (40 Acre Units)	131,559	132,936	133,942
Allowable Assigned Top Allowable Wells (80 Acre Units)	5,506	5,278	5,148
Allowable Assigned Limited Capacity and Penalized Wells	76,358	76,358	76,358
Allowable Assigned Wells with Special Allowables	4,525	4,525	4,525
Additional Allowable Assigned Wells with Excess Acreage Credit	657	622	627
Total Assigned Allowables - State of New Mexico	218,605	219,739	220,600

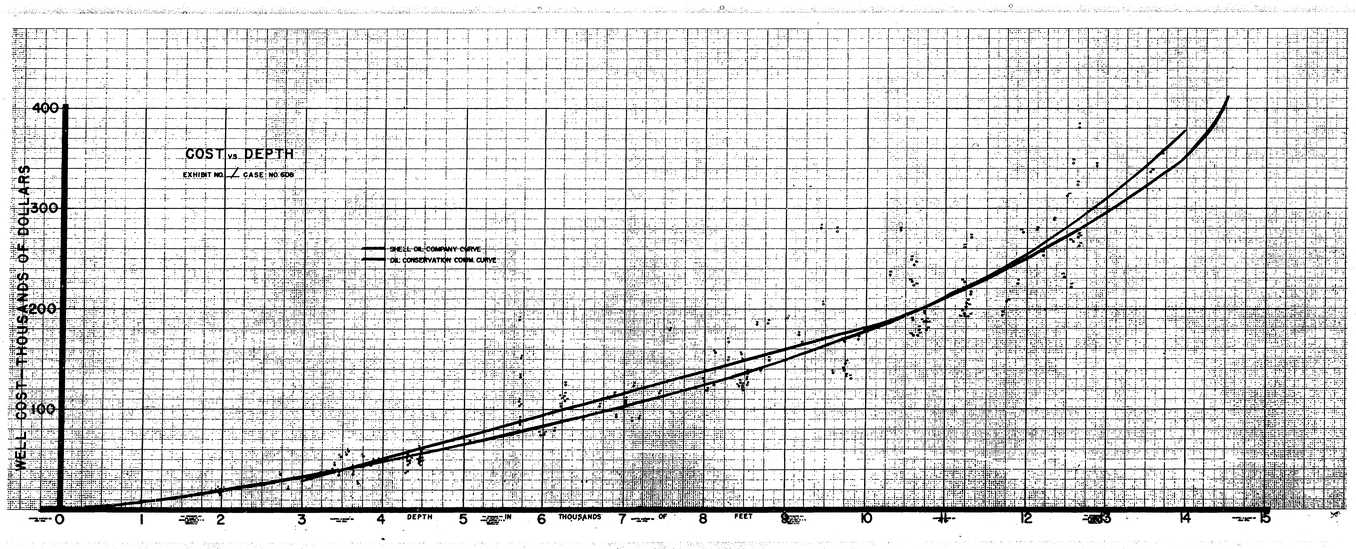
ESTIMATED WELL PAYOUT PERIODS - STATE OF NEW MEXICO

Total Depth of Well	Cost of Well	Present Status			Plan I			Plan II		
		Depth Bracket Factor	Top Per Well Allow.	Payout Period (Mo's)	Depth Bracket Factor	Top Per Well Allow.	Payout Period (Mo's)	Depth Bracket Factor	Top Per Well Allow.	Payout Period (Mo's)
2,000'	$ 20,000	1.00	40	9.3	1.00	40	9.3	0.40	16	23.2
3,000'	31,000	1.00	40	14.4	1.00	40	14.4	1.00	39	14.7
4,000'	50,000	1.00	40	23.2	1.00	40	23.2	1.00	39	23.8
5,000'	73,000	1.00	40	33.8	1.00	40	33.8	1.46	57	23.8
6,000'	95,000	1.33	54	32.6	1.90	76	23.2	1.90	74	23.8
7,000'	117,500	1.77	71	30.7	2.35	94	23.2	2.35	92	23.7
8,000'	140,000	2.33	94	27.6	2.80	112	23.2	2.80	109	23.8
9,000'	162,000	3.00	120	25.1	3.25	130	23.1	3.25	127	23.7
10,000'	185,000	3.77	151	22.8	3.70	148	23.2	3.70	144	23.8
11,000'	218,000	4.67	187	21.6	4.36	174	23.2	4.36	170	23.8
12,000'	266,500	5.67	227	21.8	5.33	213	23.2	5.33	208	23.8
13,000'	327,500	6.75	270	22.5	6.55	262	23.2	6.55	255	23.8
14,000'	400,000	8.00	320	23.2	8.00	320	23.2	8.00	312	23.8

Note: Above Payout Periods calculated on basis of a net working interest value of $1.77 per barrel of oil computed as follows:

Gross Price of 40 Gravity Oil per barrel		$ 2.77
Less:		
Royalty Interest	$ .36	
Lifting Cost	.40	
Taxes	.18	
Miscellaneous Administrative Cost	.06	1.00
Net Working Interest Price per bbl.		$ 1.77




COST vs DEPTH
EXHIBIT NO. 1 CASE NO 606
SHELL OIL COMPANY CURVE
OIL CONSERVATION COMM. CURVE
WELL COST - THOUSANDS OF DOLLARS
400
300
200
100
0
1
2
3
4
DEPTH IN THOUSANDS OF FEET
5
6
7
8
9
10
11
12
13
14
15

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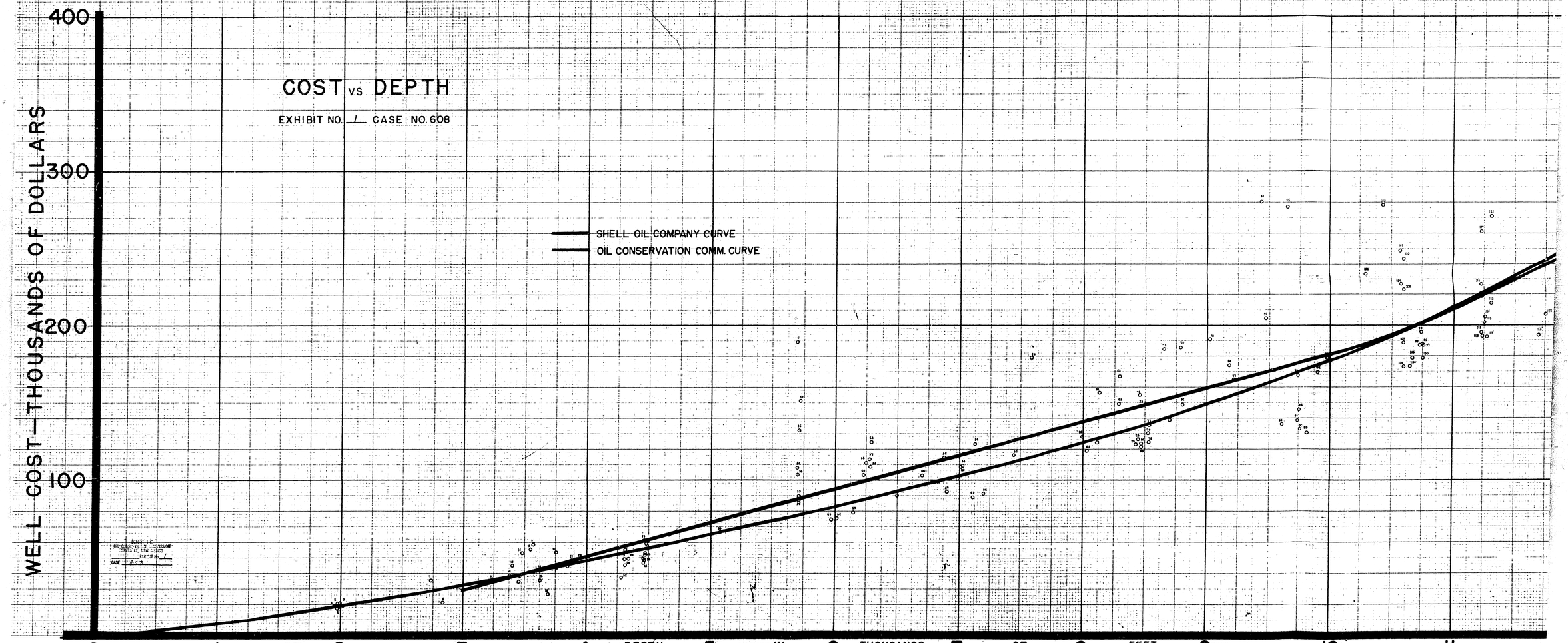
COST V.S DEPTH

EXHIBIT NO. 1 CASE NO. 608



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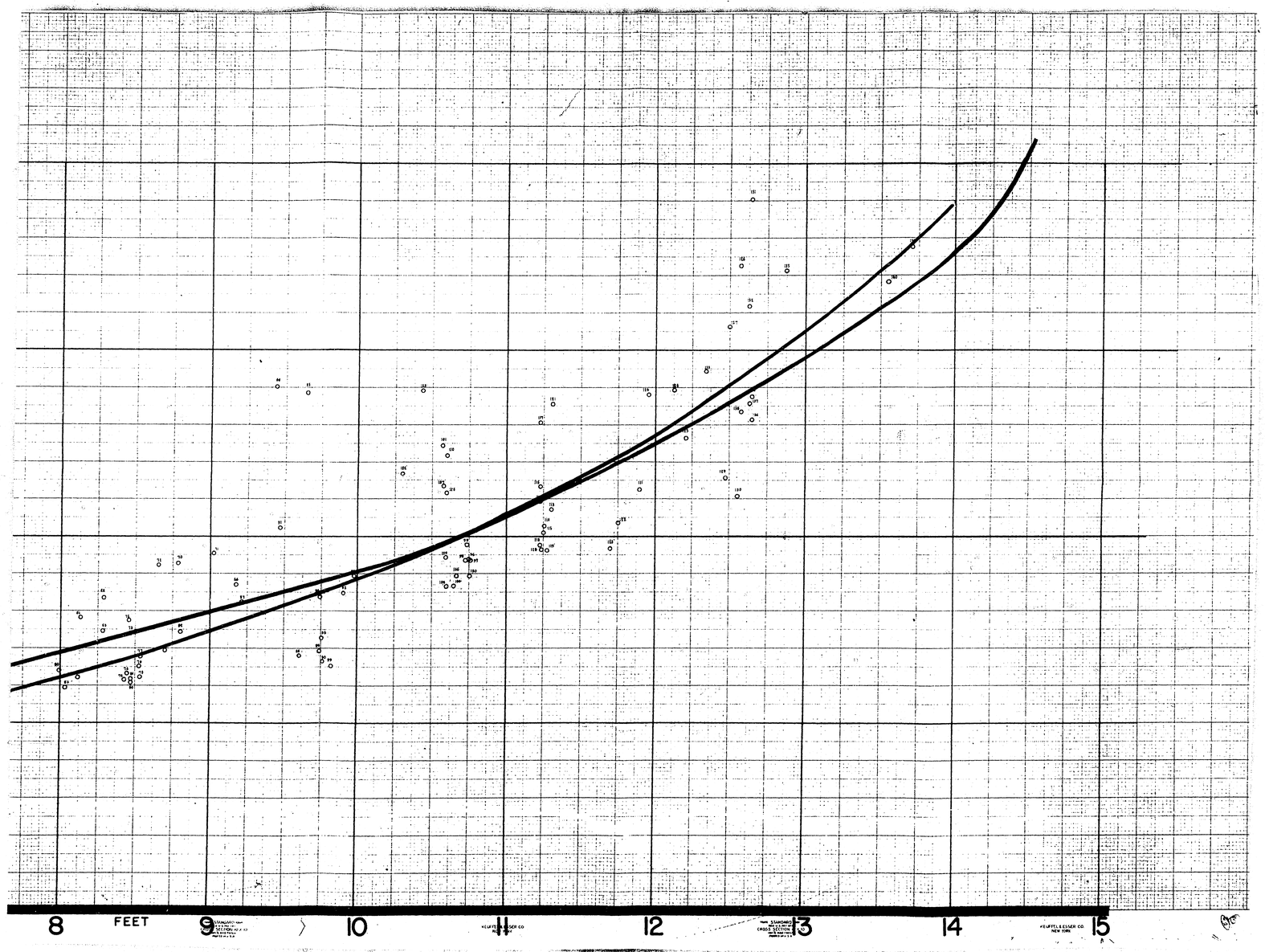

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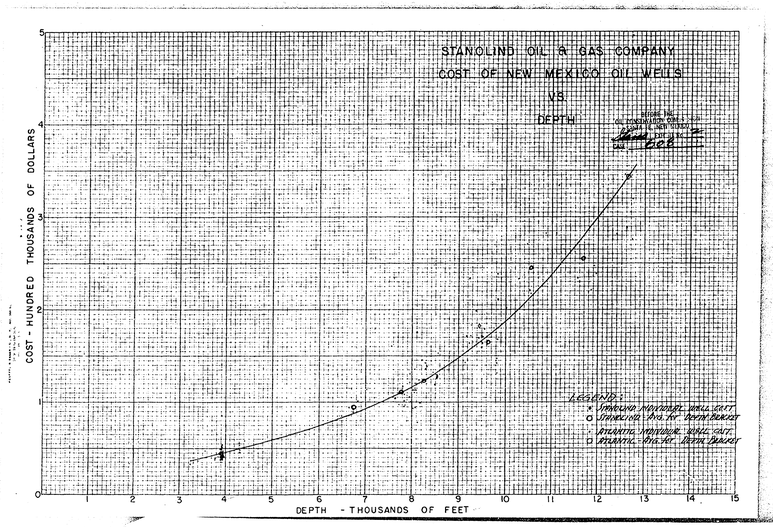
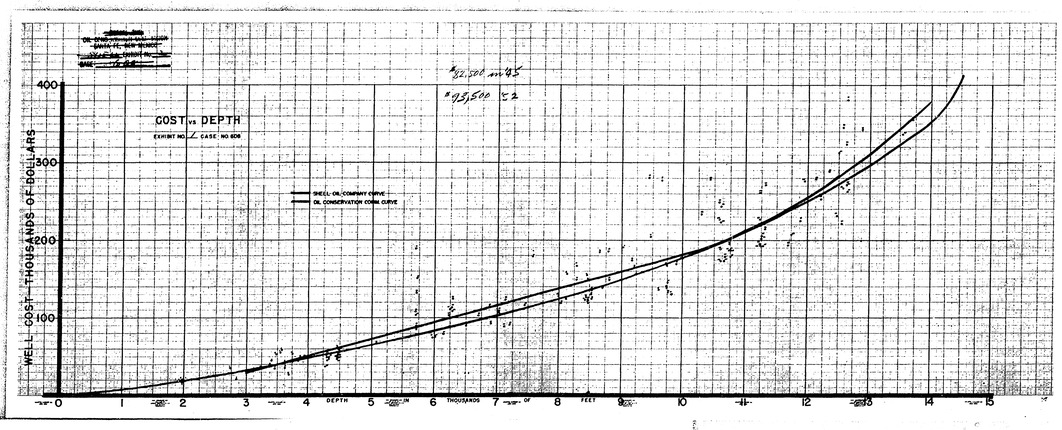




BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO SHELL EXHIBIT No. 2 CASE 628

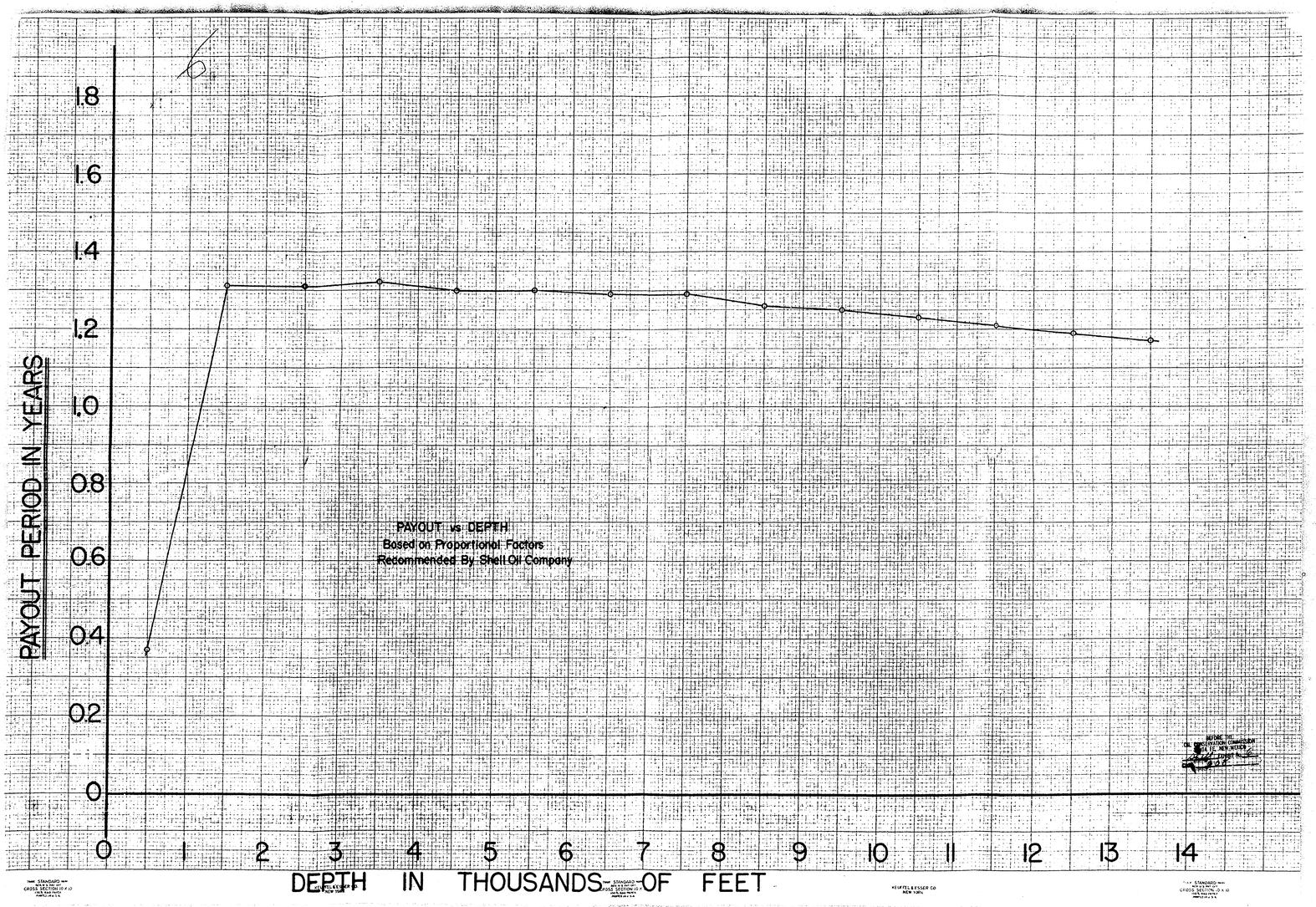
COMPARISON OF DEPTH FACTORS AND VARIATION IN PAYOUT TIME

118

Depth Range	Present Adaptation Factor	Commission–Proposed Plan All Wells Pay Out in 1.406 Years Average Cost	Factor*	Shell Interpretation All Wells Pay Out in 1.406 Years Average Cost	Factor*
0 - 1000	1.00	No Cost	–	3200	0.07
1 - 2000	1.00	Curve in	–	12400	0.26
2 - 3000	1.00	0-3000' Range	–	24800	0.51
3 - 4000	1.00	39500	0.82	39600	0.82
4 - 5000	1.00	61000	1.27	56000	1.16
5 - 6000	1.33	81700	1.66	73500	1.52
6 - 7000	1.77	104400	2.15	92300	1.91
7 - 8000	2.33	126000	2.59	111700	2.33
8 - 9000	3.00	148000	3.07	135600	2.81
9 -10000	3.77	169700	3.51	161900	3.35
10 -11000	4.67	194000	4.02	192600	3.99
11 -12000	5.67	230800	4.76	228800	4.74
12 -13000	6.75	280300	5.81	271600	5.62
13 -14000	8.00	345000	7.17	322400	6.67

* These Factors Assume A Basic Unit of 40 Barrels of Oil Daily

** Minimum Allowable of 10 Barrels of Oil Daily for 0-2000 Foot Range


PAYOUT PERIOD IN YEARS
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14
DEPTH IN THOUSANDS OF FEET
PAYOUT vs DEPTH
Based on Proportional Factors
Recommended By Shell Oil Company

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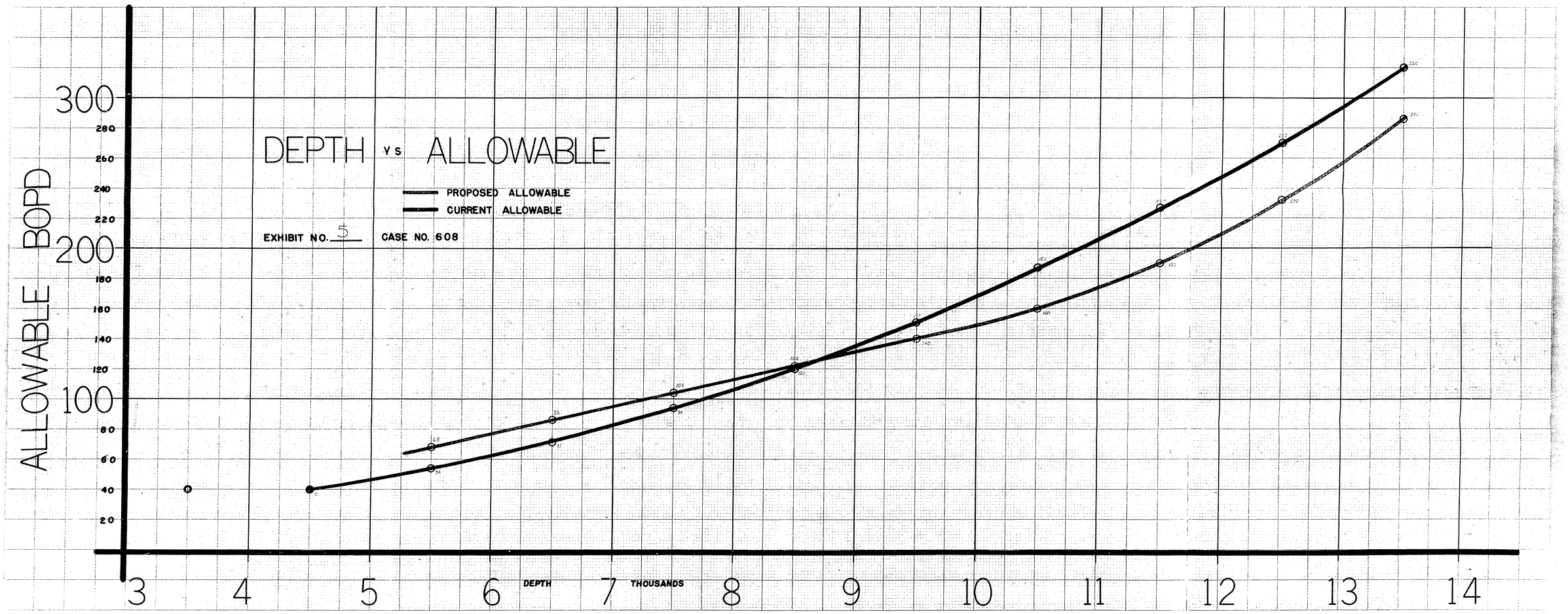
DEPTH vs ALLOWABLE

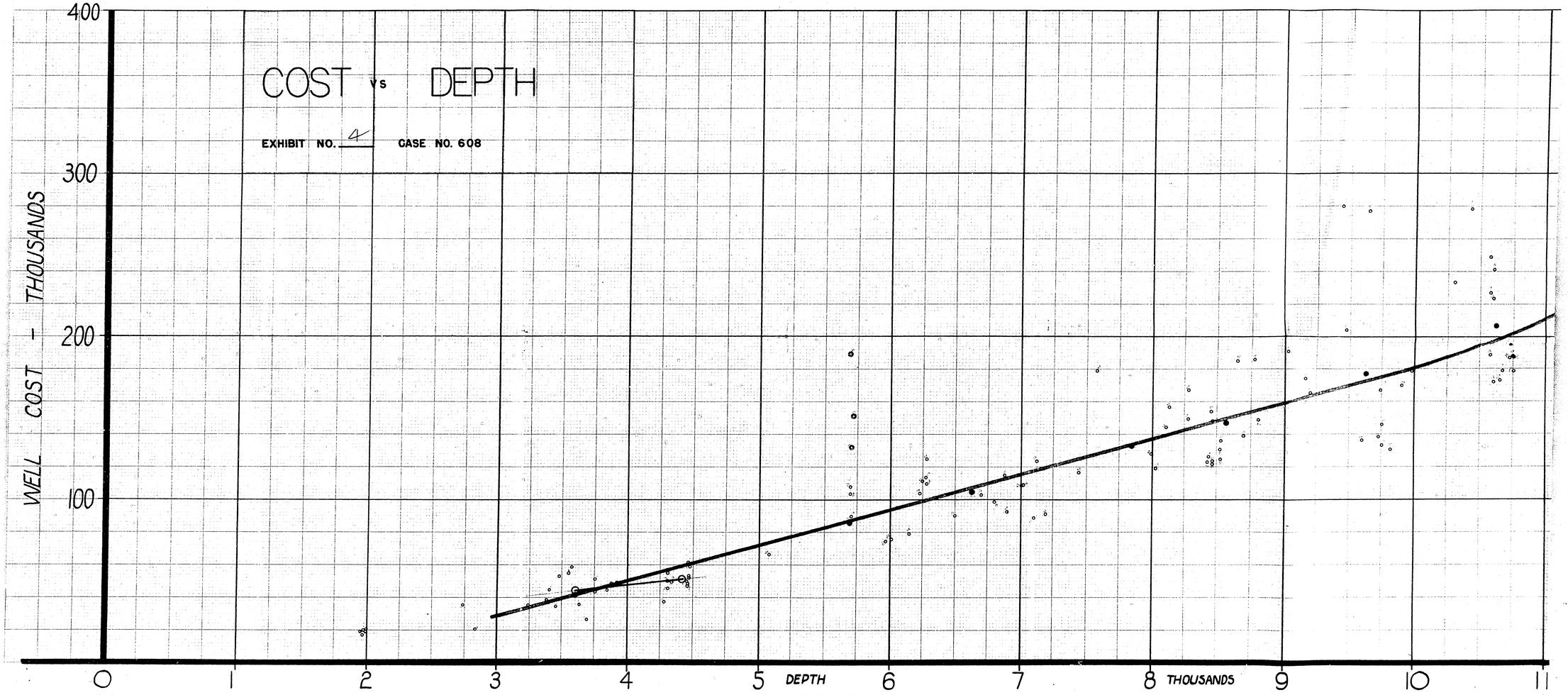
PROPOSED ALLOWABLE
CURRENT ALLOWABLE

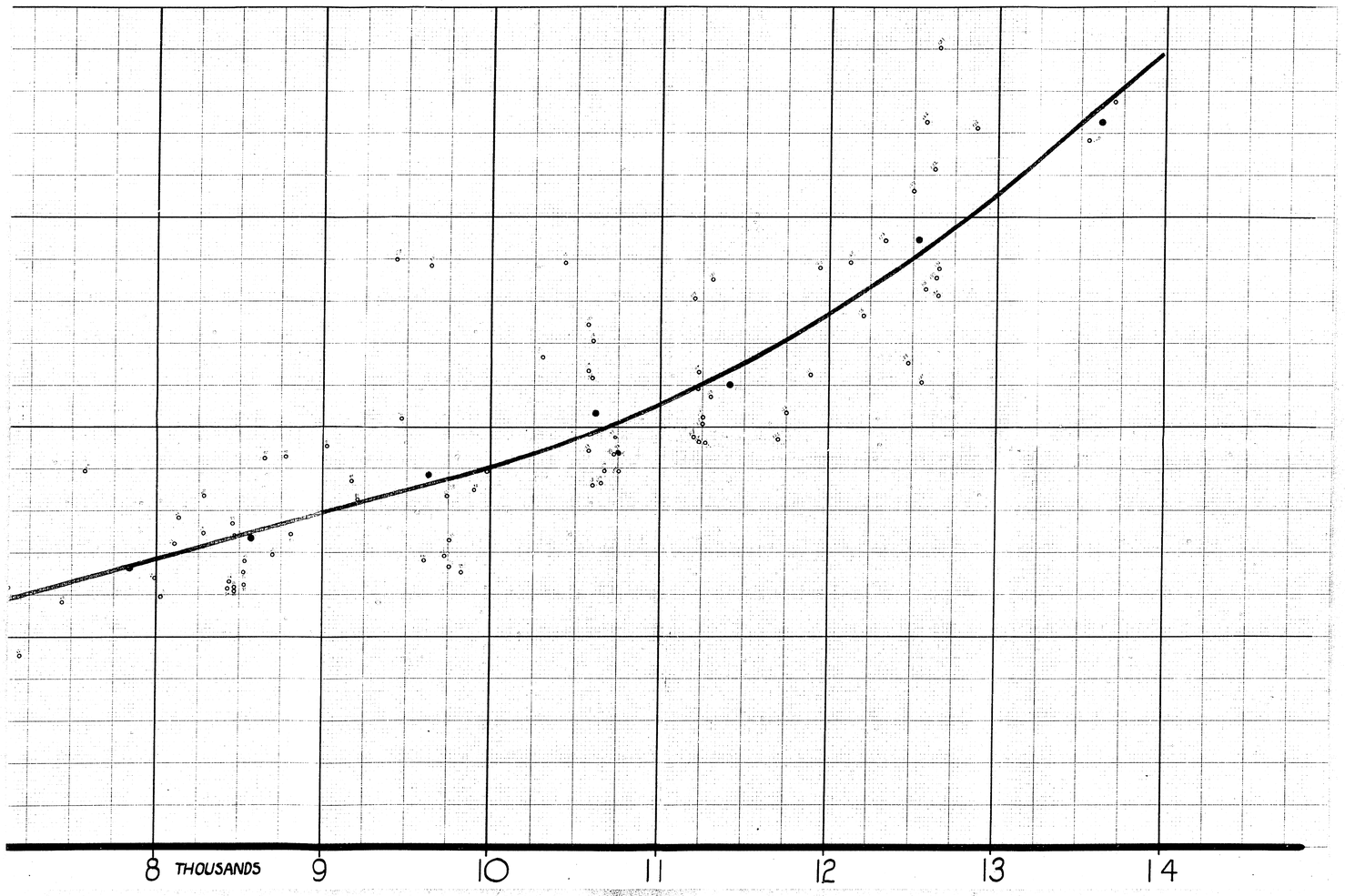
EXHIBIT NO. 5 CASE NO. 608



COST vs DEPTH

EXHIBIT NO. 4 CASE NO. 608




8
THOUSANDS
9
10
11
12
13
14

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 9
CASE 608

DEPTH vs ALLOWABLE

PROPOSED ALLOWABLE
CURRENT ALLOWABLE
MINIMUM ALLOWABLE

EXHIBIT No. ——— CASE No. 608

ALLOWABLE — BOPD

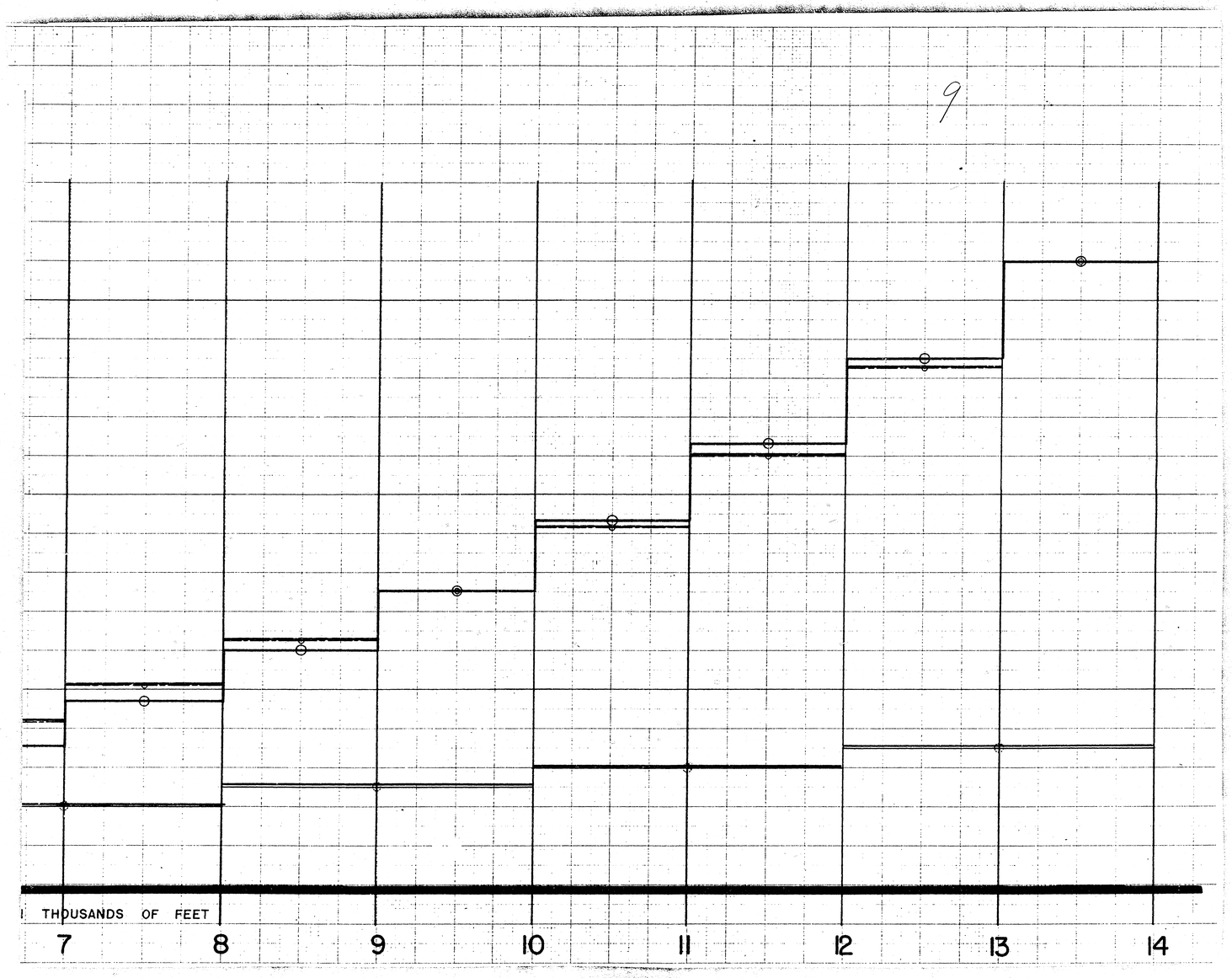
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0

0 1 2 3 4 5 6 7 8

DEPTH IN THOUSANDS OF FEET

123

9



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FEDERAL LANDS
STATE LANDS
PATENTED LANDS
(2) TRACT NUMBER
UNIT BOUNDARY

EXHIBIT "A"

WELCH UNIT AGREEMENT

EDDY COUNTY, NEW MEXICO

SCALE 2"= 1 Mile

R. 26 E.

R. 27 E.

T. 25 S.

T. 26 S.

Eddy County
Culberson County
NEW MEXICO
TEXAS

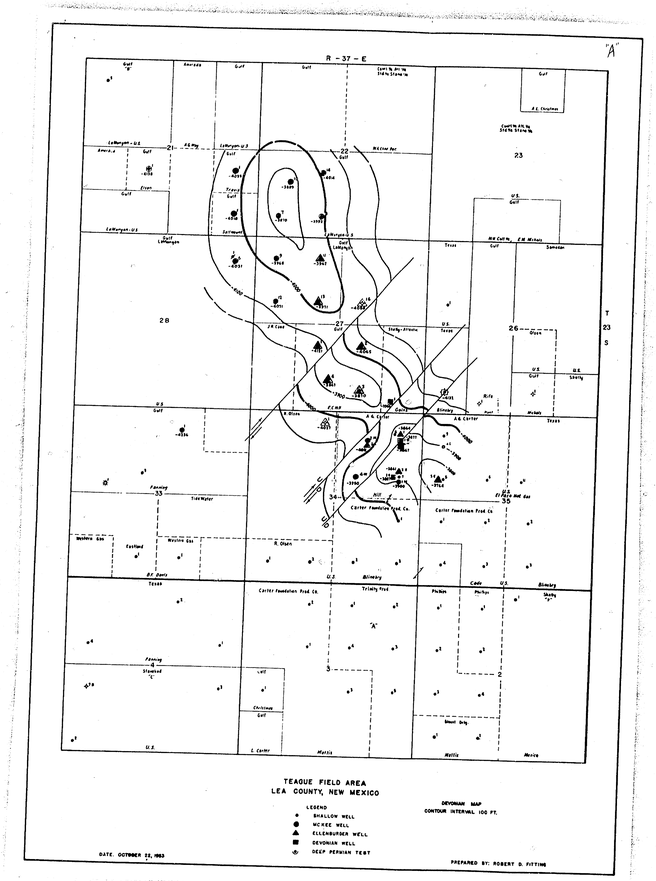
T. & P. RR Blk 60 T-1

T. & P. RR Blk 59 T-1

125

129

126


"A"
R - 37 - E
T
23
S
TEAGUE FIELD AREA
LEA COUNTY, NEW MEXICO
LEGEND
SHALLOW WELL
MCKEE WELL
ELLENBURGER WELL
DEVONIAN WELL
DEEP PERMIAN TEST
DEVONIAN MAP
CONTOUR INTERVAL 100 FT.
DATE: OCTOBER 22, 1963
PREPARED BY: ROBERT D. FITTING

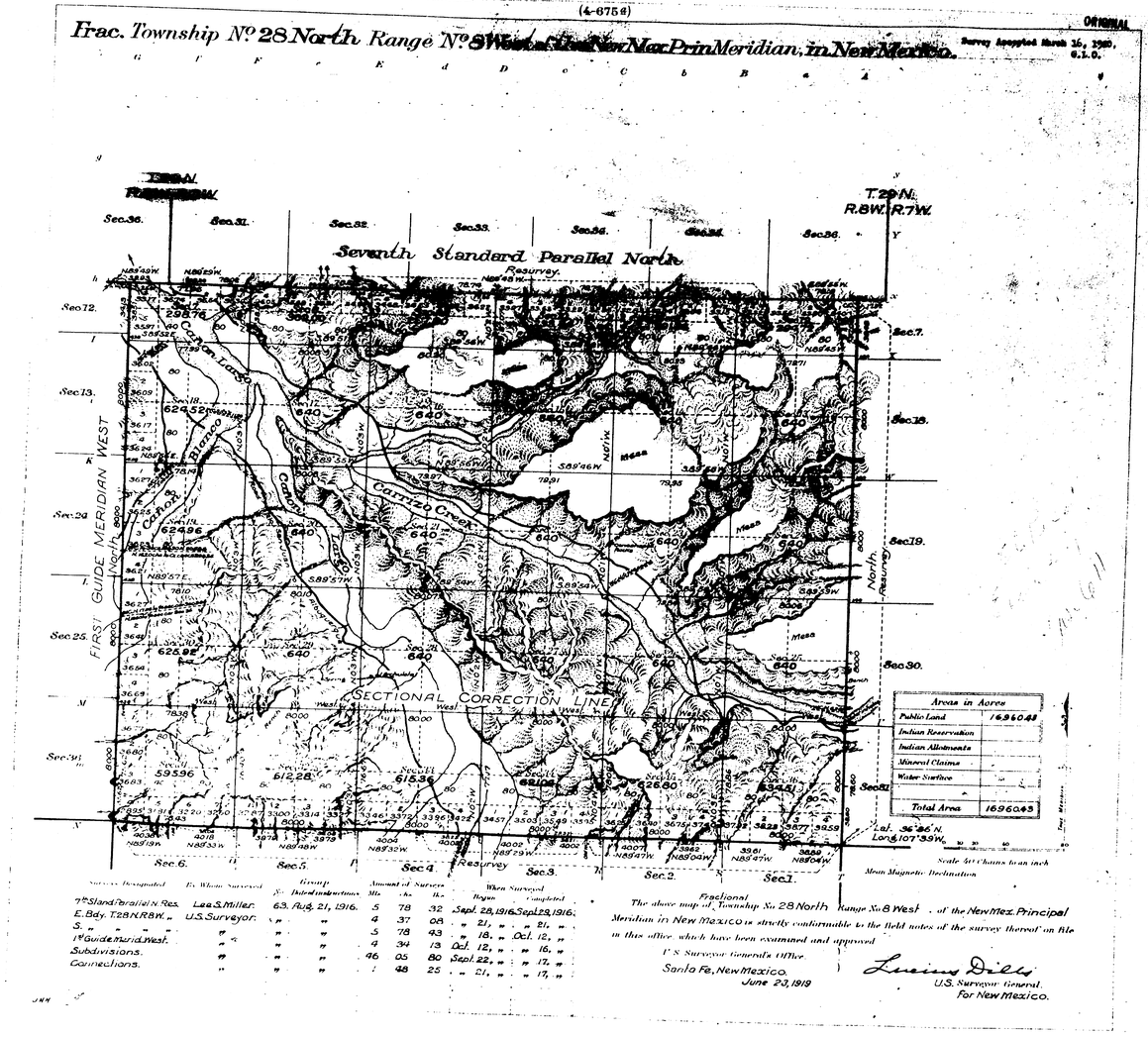
(4-675#)

ORIGINAL

Frac. Township No. 28 North Range No. 8 West of the New Mex. Prin. Meridian, in New Mexico.

Survey Accepted March 15, 1920. G.L.O.

127



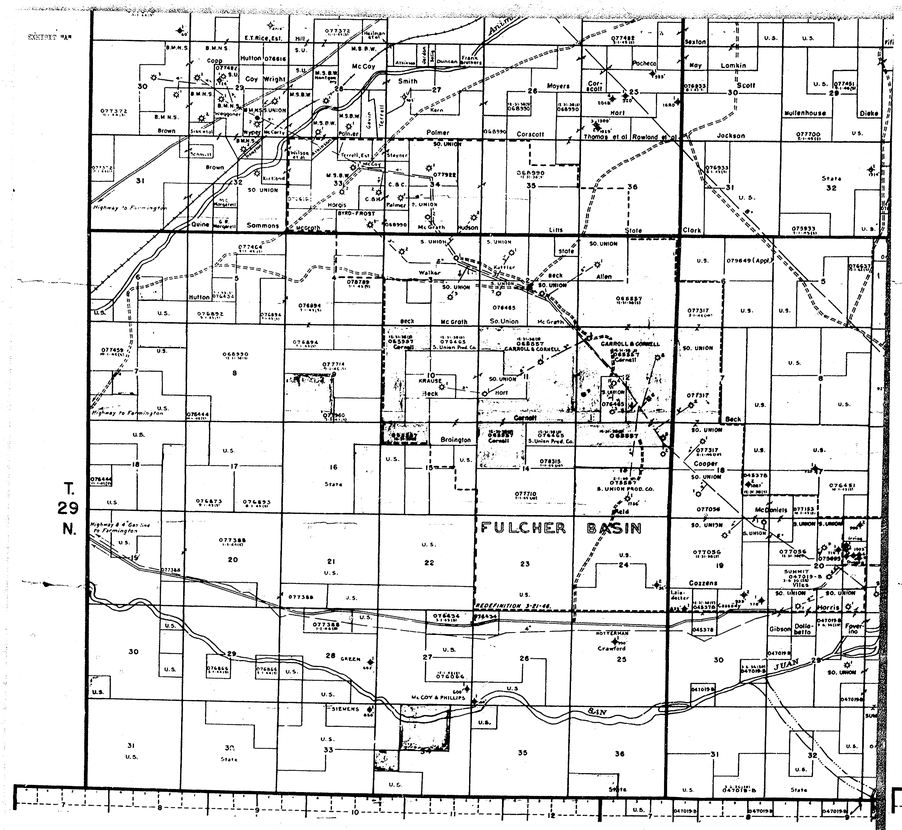
Surveys Designated	By Whom Surveyed	Group No.	Date of Instructions	Amount of Surveys Mls.	Chs.	Lks.	When Surveyed Began	When Surveyed Completed
7th Stand Parallel N. Res.	Lee S. Miller	63	Aug. 21, 1916.	5	78	32	Sept. 28, 1916	Sept. 29, 1916.
E. Bdy. T.28 N. R.8 W.	U.S. Surveyor	"	"	4	37	08	" 21, "	" 21, "
S. " " "	"	"	"	5	78	43	" 18, "	Oct. 12, "
1st Guide Merid. West.	"	"	"	4	34	13	Oct. 12, "	" 16, "
Subdivisions.	"	"	"	46	05	80	Sept. 22, "	" 17, "
Connections.	"	"	"	1	48	25	" 21, "	" 17, "

The above map of Fractional Township No. 28 North Range No. 8 West of the New Mex. Principal Meridian in New Mexico is strictly conformable to the field notes of the survey thereof on file in this office which have been examined and approved.

U.S. Surveyor General's Office
Santa Fe, New Mexico.
June 23, 1919

Lucius Dills
U.S. Surveyor General.
For New Mexico.

EXHIBIT "A"



DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
OIL & GAS OPERATIONS

KUTZ CANYON-FULCHER BASIN AREAS

SAN JUAN COUNTY, NEW MEXICO

DRAWN BY F.C. BIGELOW ROSWELL, NEW MEXICO

DECEMBER, 1940

MAP NO: ROSWELL-5

EXHIBIT "A"

T. 29 N.

DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
OIL & GAS OPERATIONS

KUTZ CANYON-FULCHER BASIN AREAS

SAN JUAN COUNTY, NEW MEXICO

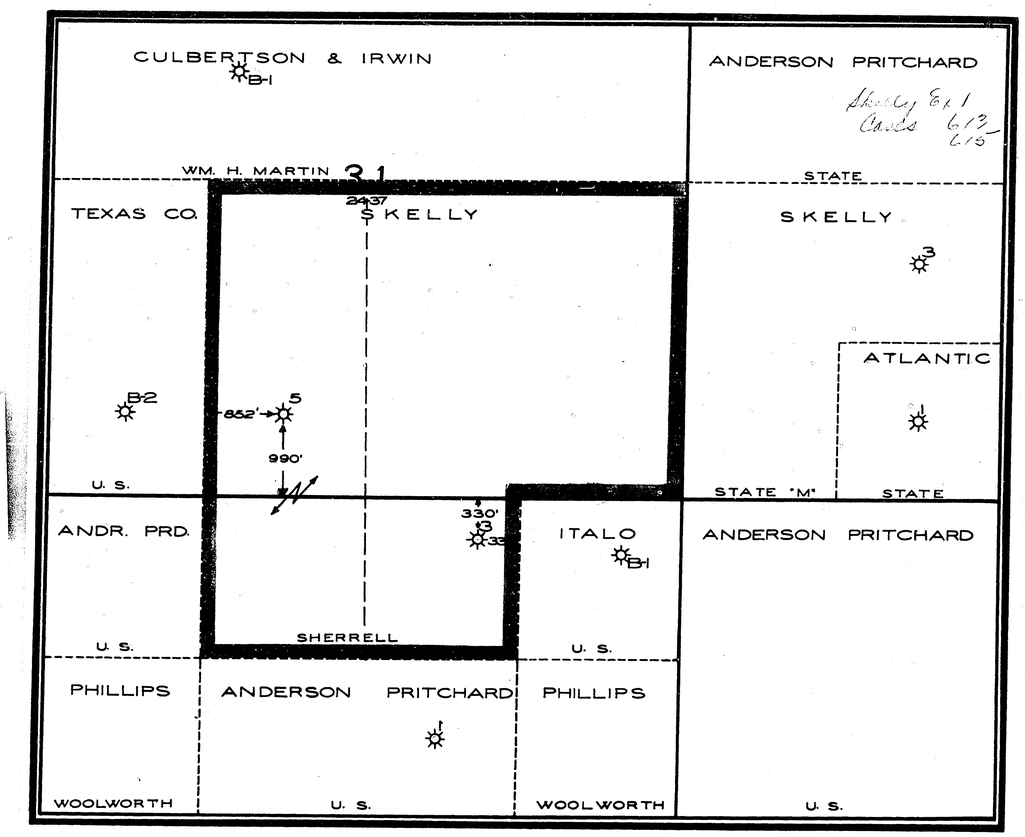
DRAWN BY F.C. BIGELOW ROSWELL, NEW MEXICO

DECEMBER, 1940

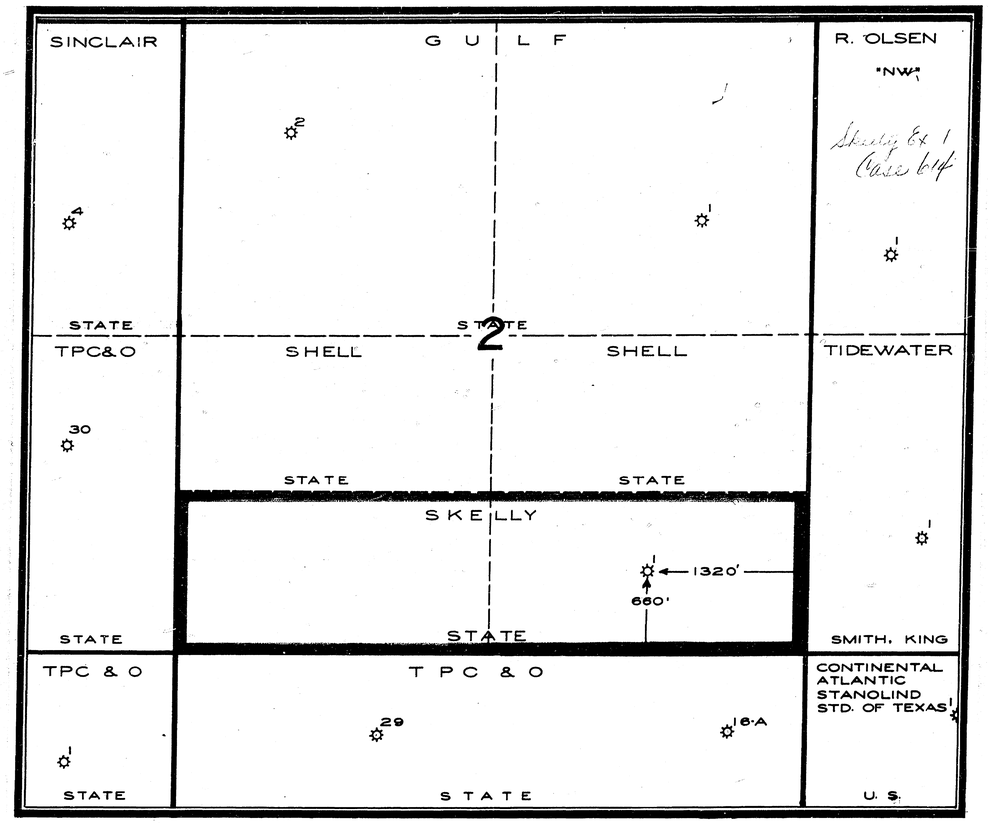
MAP NO: ROSWELL-5

128

129


CULBERTSON & IRWIN
B-1
ANDERSON PRITCHARD
Skelly Ex 1
Cards 613
615
WM. H. MARTIN 31
STATE
TEXAS CO.
24-37
SKELLY
SKELLY
3
ATLANTIC
B-2
852'
5
990'
U. S.
STATE "M"
STATE
330'
3
33
ANDR. PRD.
ITALO
B-1
ANDERSON PRITCHARD
SHERRELL
U. S.
U. S.
PHILLIPS
ANDERSON PRITCHARD
PHILLIPS
WOOLWORTH
U. S.
WOOLWORTH
U. S.

130


SINCLAIR
G U L F
R. OLSEN
"NW"
Skelly Ex 1
Case 614
STATE
STATE
TPC&O
SHELL
2
SHELL
TIDEWATER
30
STATE
STATE
SKELLY
1320'
660'
STATE
STATE
SMITH, KING
TPC & O
T P C & O
CONTINENTAL
ATLANTIC
STANOLIND
STD. OF TEXAS
29
16-A
STATE
S T A T E
U. S.

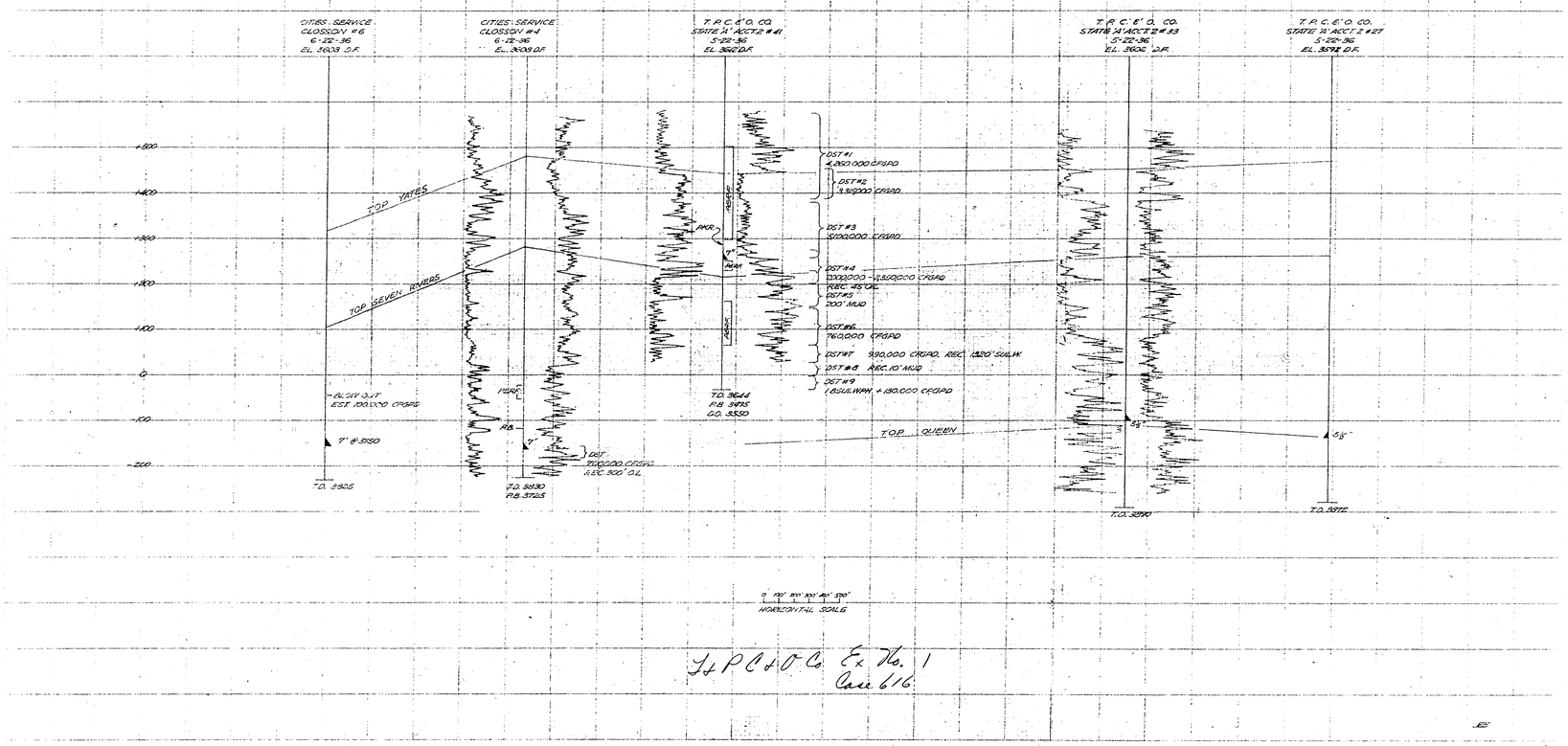
131

DEPARTMENT OF THE STATE GEOLOGIST

WELL RECORD

FORMATION RECORD

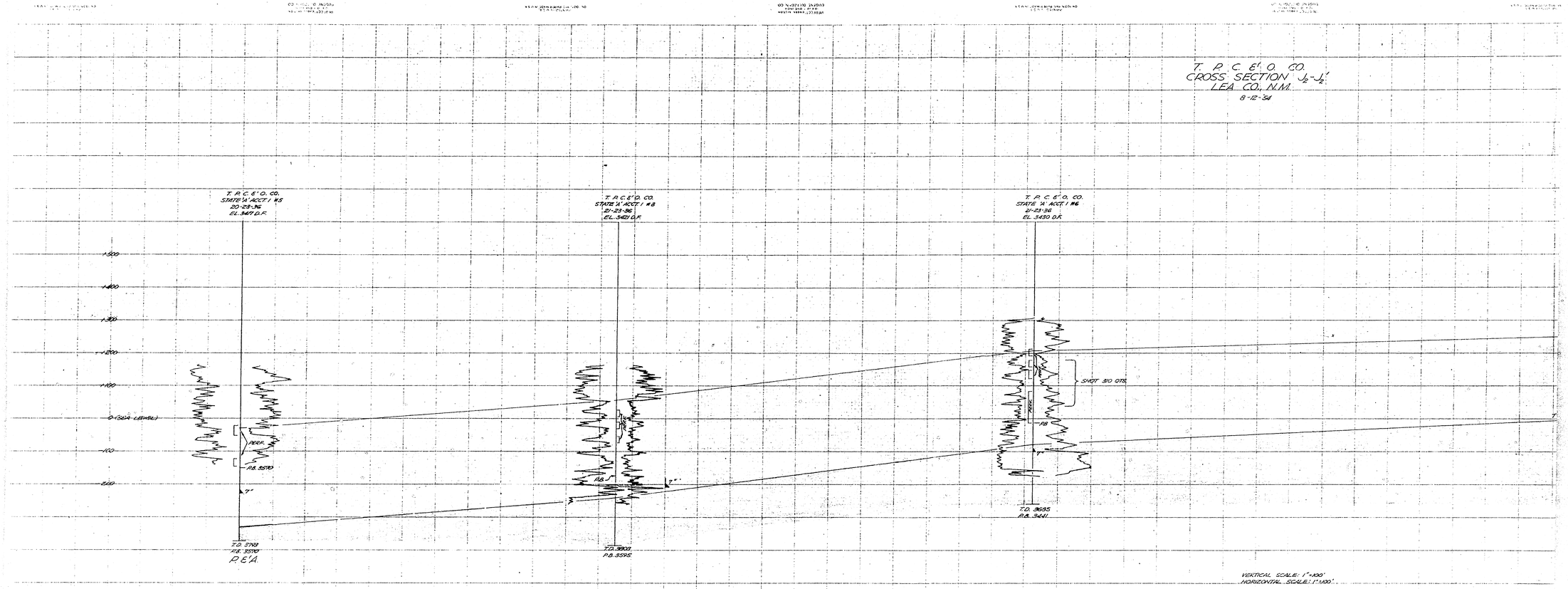
T. P. C. E' O. CO.
CROSS SECTION A_3-A_3'
LEA CO., N.M.
8-12-54



T+P C+O Co Ex No. 1
Case 616

132

T. P. C. E. O. CO.
CROSS SECTION J½-J½'
LEA CO., N.M.
8-12-34



Texas P.C.T.O. Ex. 1
Case 617

133

E' O. CO.
CTION J½-J½'
O., N.M.
12-34

T.R.C. E' O. CO.
STATE 'A' ACCT. 1 #19
22-23-36
EL. 3440 D.F.

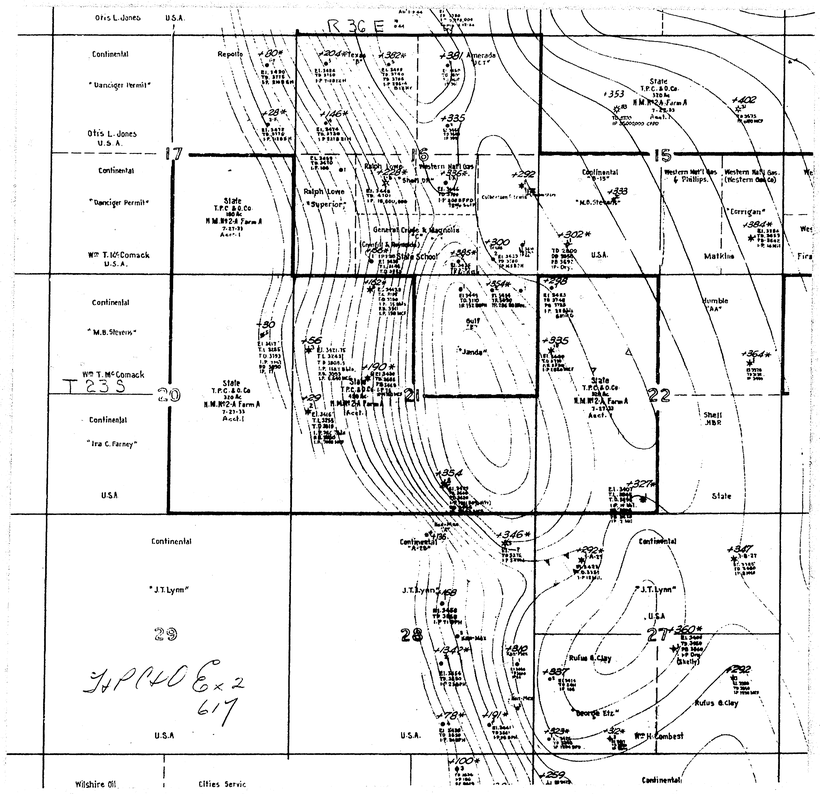
TOP YATES

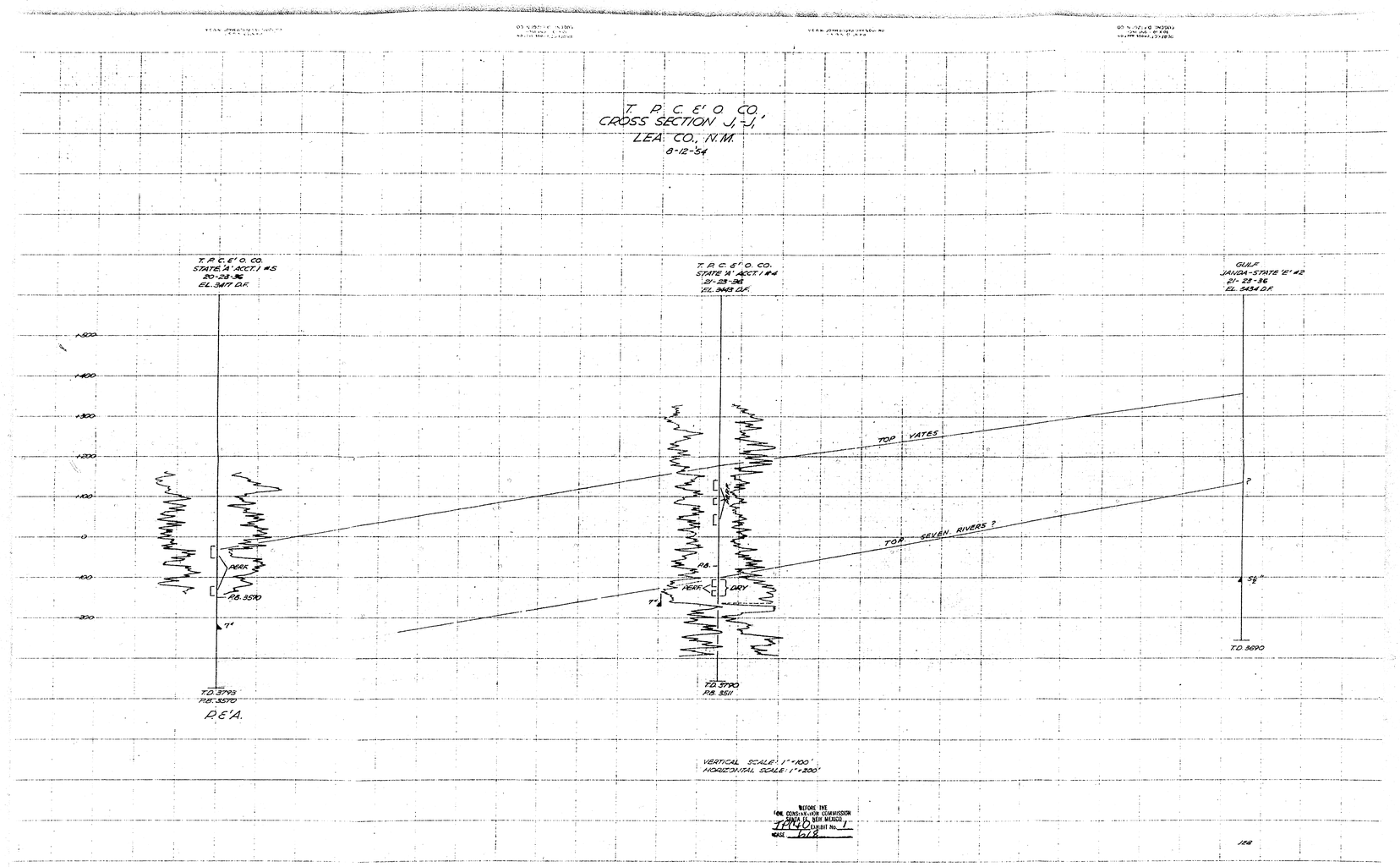
TOP SEVEN RIVERS

VERTICAL SCALE: 1"=100'
HORIZONTAL SCALE: 1"=100'

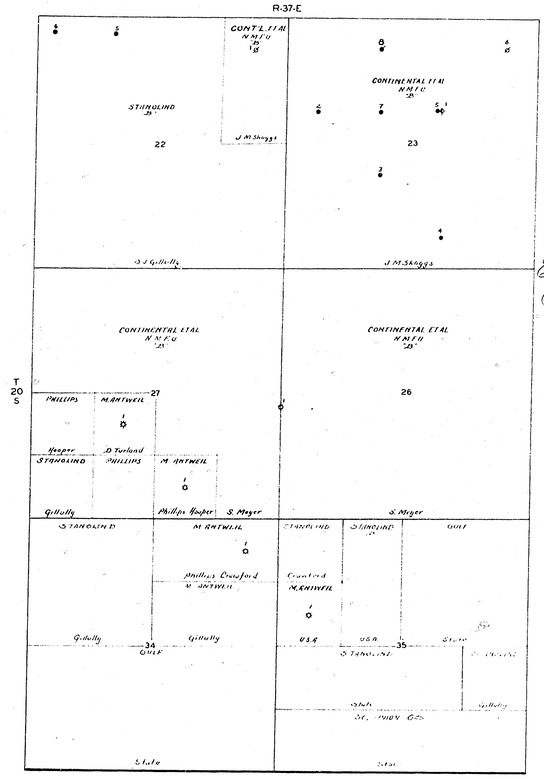
T.D. 3710
P.B. 3530

135


R 36 E
Otis L. Jones U.S.A.
Continental "Danciger Permit"
Otis L. Jones U.S.A.
Continental "Danciger Permit"
Wm T. McComack U.S.A.
Continental "M.B. Stevens"
Wm T. McComack
T 23 S
Continental "Ira C. Farney"
U.S.A
Continental "J.T. Lynn"
U.S.A
Wilshire Oil
Cities Servic
Repsto
Ralph Lowe "Superior"
General Crude & Magnolia (Cowden & Pennington)
State School
State T.P.C. & O.Co 320 Ac N.M. 012-A Farm A 7-21-33 Acct-1
State T.P.C. & O.Co 320 Ac N.M. 012-A Farm A 7-21-33 Acct-1
State T.P.C. & O.Co 320 Ac N.M. 012-A Farm A 7-21-33 Acct-1
State T.P.C. & O.Co 320 Ac N.M. 012-A Farm A 7-21-33 Acct-1
Gulf "Jande"
Amerada "ET"
Western Nat'l Gas
Western Nat'l Gas (Western Gas Co)
Continental "M.N. Stevens"
Continental "A-10"
Continental
Rufus G. Clay
Rufus G. Clay
Georgia Etz
Wm N. Combest
Continental
Matkins
Corrigans
Humble "A"
Shell JNR
State
J.T. Lynn
U.S.A
U.S.A.
U.S.A.
17
16
15
20
21
22
29
28
27
T 23 S
R 36 E
Hpl 4-60 Ex 2
617


T. P. C. & O. CO.
CROSS SECTION J1-J1'
LEA CO., N.M.
8-12-54
T. P. C. & O. CO.
STATE 'A' ACCT. 1 #5
20-23-36
EL. 3417 D.F.
T. P. C. & O. CO.
STATE 'A' ACCT. 1 #4
21-23-36
EL. 3443 D.F.
GULF
JANDA-STATE 'E' #2
21-23-36
EL. 3434 D.F.
+500
+400
+300
+200
+100
0
-100
-200
TOP YATES
TOP SEVEN RIVERS ?
PERF.
P.B. 3570
7"
P.B.
PERF.
DRY
7"
?
5½"
T.D. 3793
P.B. 3570
P.&A.
T.D. 3790
P.B. 3511
T.D. 3690
VERTICAL SCALE: 1" = 100'
HORIZONTAL SCALE: 1" = 200'
BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
TP 40 EXHIBIT No. 1
CASE 618
128

136



Cont
Ex 76 1
Case 627

137

CONTINENTAL OIL COMPANY

SOPHIA MEYER B-26 NO.1
SURROUNDING LEASEHOLDINGS AND WELLS

CASE 267

SCALE: 1"=1000'

1/13/54 A.W.P

STATE
N.Mex.
COUNTY
Lea
BLOCK
SEC.
4
T.
21S
R.
36E
ALTITUDE
PRODUCTION

COMPANY Continental Oil Co.
FARM Meyer B-4 WELL NO. 6
SURVEY 3300' FSL & 1980' FWL
TOTAL DEPTH
CONTRACTOR
COMMENCED
COMPLETED
REMARKS

CASING RECORD

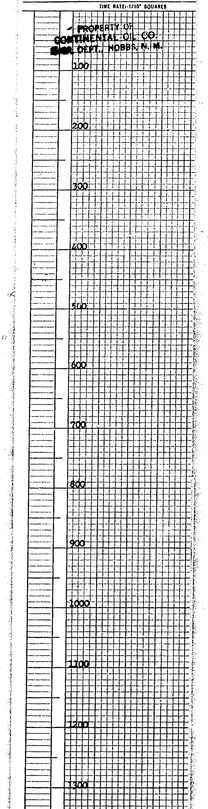
10 3/4" at 311'	10"
7 5/8" at 2582'	8¼"
2nd 5½" at 7382'	6¼"
1.81"	5¼"
1.2"	

SHOT QUARTS REAMER

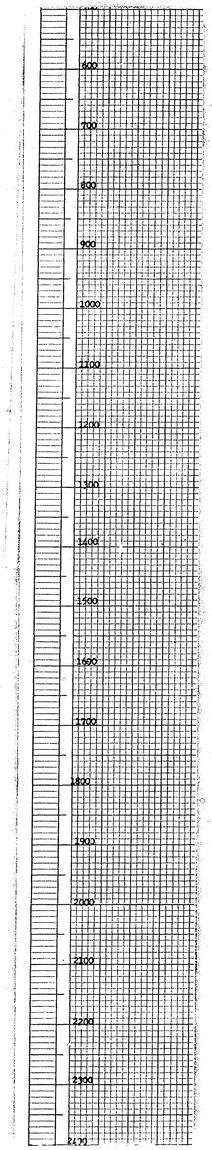
TIME RATE SCALE, 1/10" = MINUTES

FORM 480 - In stock and for sale by McGlynn Ptg. Co., Tulsa

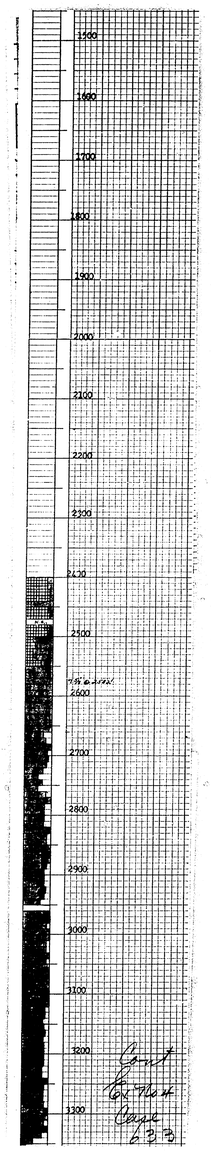
TIME RATE: 1/10" SQUARES



138

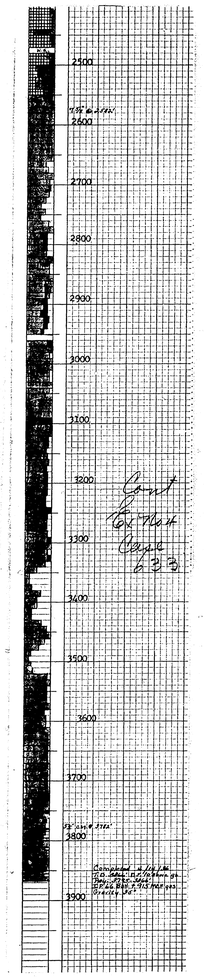

600
700
800
900
1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300

139

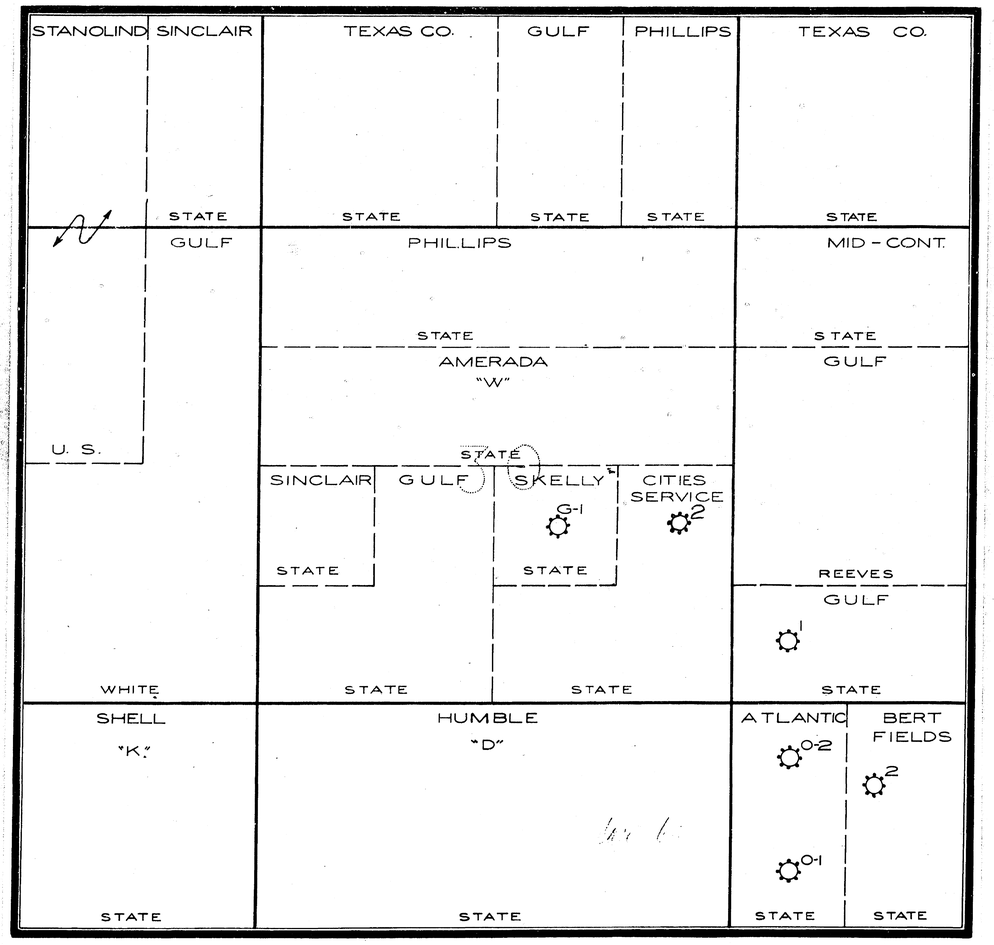

1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300

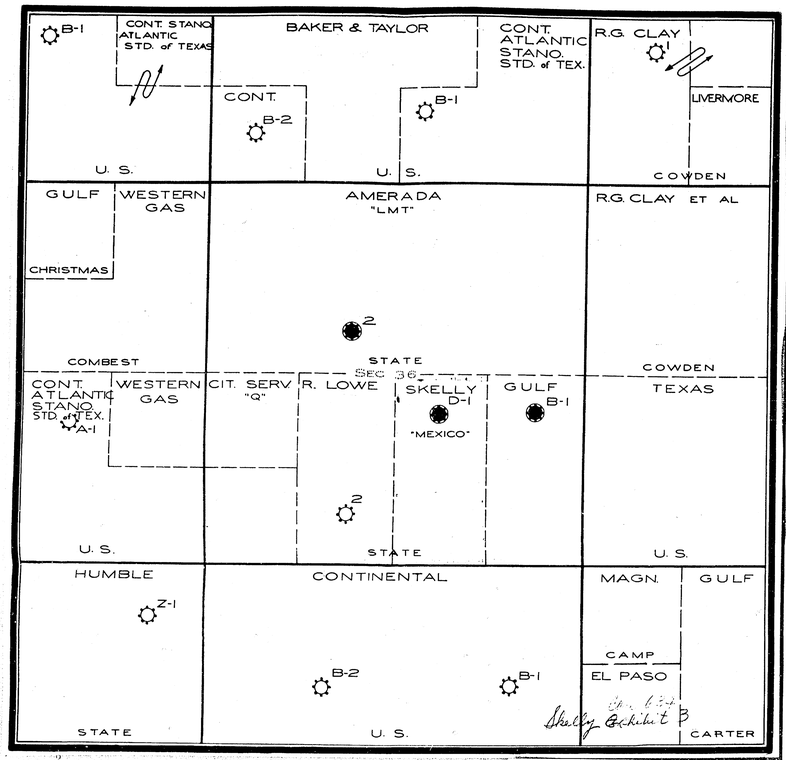
140

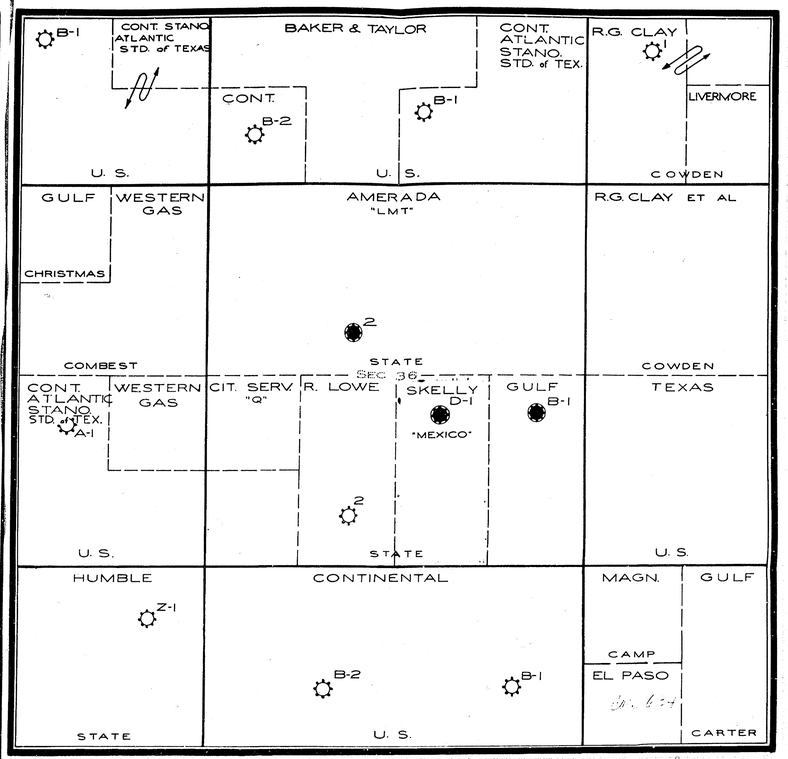
141


2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900

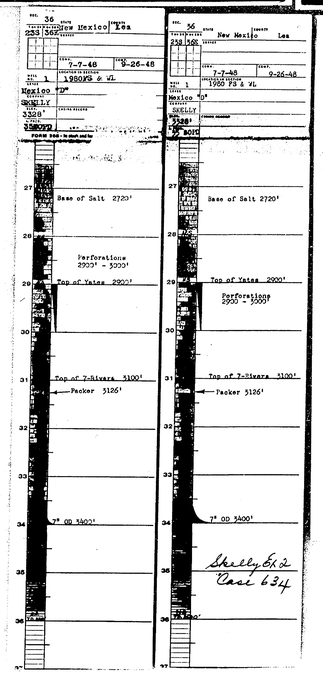
142


STANOLIND
SINCLAIR
TEXAS CO.
GULF
PHILLIPS
TEXAS CO.
STATE
STATE
STATE
STATE
STATE
GULF
PHILLIPS
MID - CONT.
STATE
STATE
AMERADA
"W"
GULF
U. S.
STATE
SINCLAIR
GULF
SKELLY
CITIES SERVICE
G-1
2
STATE
STATE
REEVES
GULF
1
WHITE
STATE
STATE
STATE
SHELL
"K."
HUMBLE
"D"
ATLANTIC
BERT FIELDS
O-2
2
O-1
STATE
STATE
STATE
STATE





143



Case No. 634

Exhibit No. 1

SKELLY OIL COMPANY
Mexico "D" #1
Sec. 36, T23S, R36E.

COMPLETION DATA

SKELLY OIL COMPANY'S Mexico "D" #1 well was completed in August, 1948, in the Queen formation at a total depth of 3390' for an initial potential of 35 BOPD. The well produces oil from open hole below 7" OD casing set at 3400'.

Gas is produced from the following perforations in the 7" casing between the interval 2900' - 3000' in the Yates sandy section. The oil and gas zones are segregated by a Guiberson production packer set at 3126'.

LANE RADIOACTIVITY LOG WELLS

COMPANY

Skelly Gr 76 3 625

Location of Well

Skelly Gr 76 3 625

COMPANY:	SKELLY OIL CO.
WELL:	STATE "M" NO. 3
FIELD:	LANGLIE MATTIX
COUNTY:	LEA STATE: N. MEX.
LOCATION:	*

FILE NO.

COMPANY SKELLY OIL CO. WELL STATE "M" NO. 3 FIELD LANGLIE MATTIX COUNTY LEA STATE N. MEX.

LOG MEAS. FROM	OLD ROTARY	ELEV. *
DRLG. MEAS. FROM	OLD ROTARY	ELEV. *
PERM. DATUM	OLD ROTARY IS 10' ABOVE GL.	ELEV. *

TYPE OF LOG	O/H	M-
RUN NO.	1	1
DATE	5-17-51	5-17-51
TOTAL DEPTH (DRILLER) WIRE LINE	3550'	3550'
EFFECTIVE DEPTH (DRILLER)	3550'	3550'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3546'	3546'
TYPE OF FLUID IN HOLE	OIL	OIL
FLUID LEVEL	2680'	2680'
MAXIMUM RECORDED TEMP.		
NEUTRON SOURCE STRENGTH & TYPE		40CM
SOURCE SPACING — IN.		8.25
LENGTH OF MEASURING DEVICE — IN.	36	9
O.D. OF INSTRUMENT — IN.	3 5/8	3 5/8
TIME CONSTANT — SECONDS	K	K
LOGGING SPEED FT. MIN.	60	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	SUNION	SUNION
WITNESSED BY	CALHOON	CALHOON

CASING RECORD

RUN NO.	SIZE — IN.	WT. — LB.	INTERVAL
1	9		SURF. TO 3415'

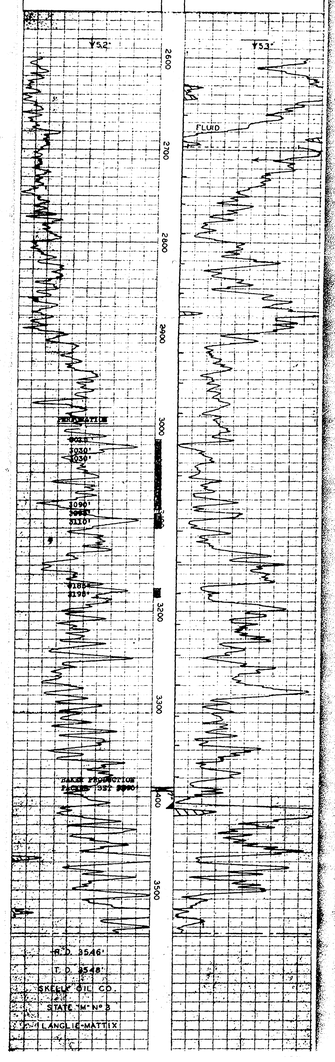
OPEN (BORE) HOLE RECORD

SIZE — IN.	INTERVAL
8 3/4	SURF. TO 3415'
6 1/4	3415' TO T. D.

REMARKS OR OTHER DATA

* LOCATION AND ELEVATION UNAVAILA BLE.

GAMMA RAY — RADIATION INTENSITY INCREASES → | DEPTH IN FEET | NEUTRON — RADIATION INTENSITY INCREASES →



LANE RADIOACTIVITY LOG WELLS

COMPANY

Location of Well

COMPANY:	SKELLY OIL CO.
WELL:	STATE "M" NO. 3
FIELD:	LANGLIE MATTIX
COUNTY:	LEA STATE: N. MEX.
LOCATION:	*

FILE NO.

COMPANY SKELLY OIL CO. WELL STATE "M" NO. 3 FIELD LANGLIE MATTIX COUNTY LEA STATE N. MEX.

LOG MEAS. FROM	OLD ROTARY	ELEV. *
DRLG. MEAS. FROM	OLD ROTARY	ELEV. *
PERM. DATUM	OLD ROTARY IS 10' ABOVE GL.	ELEV. *

TYPE OF LOG	O/H	M-
RUN NO.	1	1
DATE	5-17-51	5-17-51
TOTAL DEPTH (DRILLER) WIRE LINE	3550'	3550'
EFFECTIVE DEPTH (DRILLER)	3531'	3550'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3546'	3546'
TYPE OF FLUID IN HOLE	OIL	OIL
FLUID LEVEL	2680'	2680'
MAXIMUM RECORDED TEMP.		
NEUTRON SOURCE STRENGTH & TYPE		40CM
SOURCE SPACING — IN.		8.25
LENGTH OF MEASURING DEVICE — IN.	36	9
O.D. OF INSTRUMENT — IN.	3 5/8	3 5/8
TIME CONSTANT — SECONDS	K	K
LOGGING SPEED FT. MIN.	60	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	SUNION	SUNION
WITNESSED BY	CALHOON	CALHOON

CASING RECORD

RUN NO.	SIZE — IN.	WT. — LB.	INTERVAL
1	9		SURF. TO 3415'

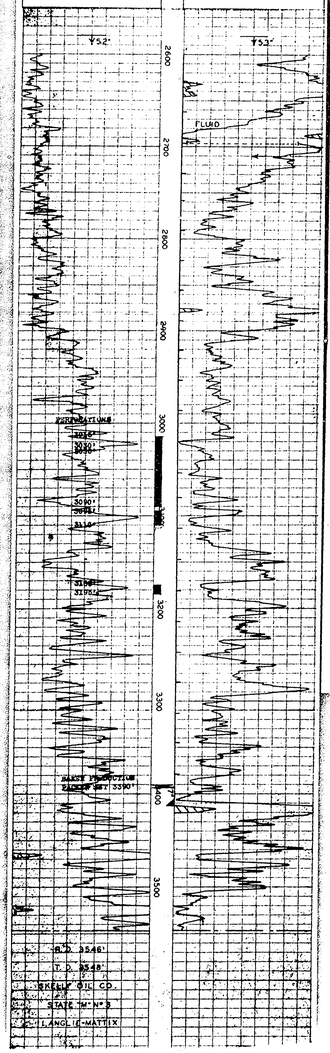
OPEN (BORE) HOLE RECORD

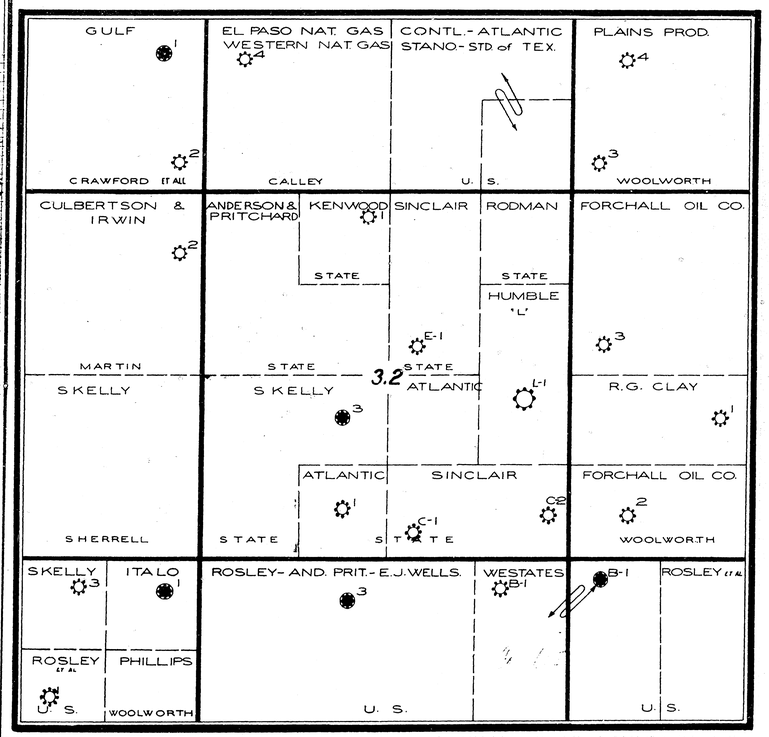
SIZE — IN.	INTERVAL
8 3/4	SURF. TO 3413'
6 1/4	3415' TO T. D.

REMARKS OR OTHER DATA

* LOCATION AND ELEVATION UNAVAILA BLE.

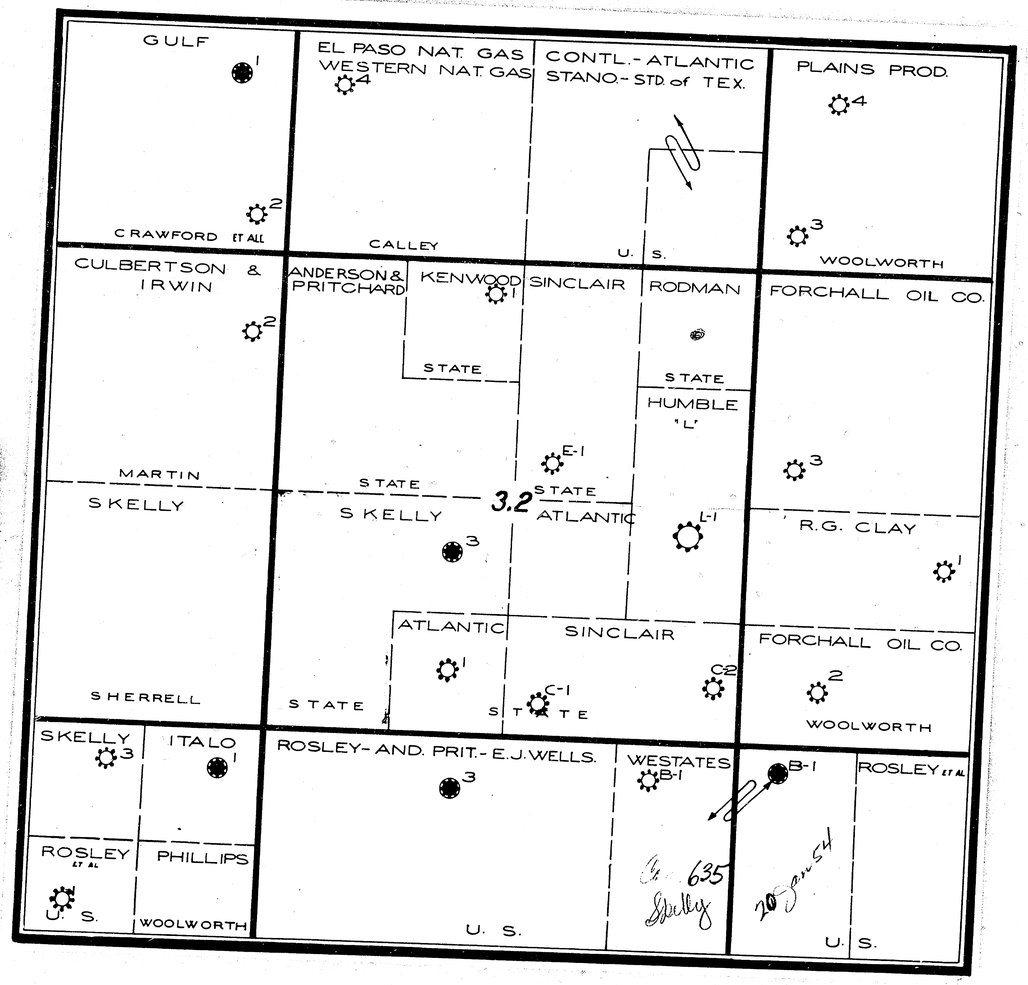
GAMMA RAY — RADIATION INTENSITY INCREASES → | DEPTH IN FEET | NEUTRON — RADIATION INTENSITY INCREASES →

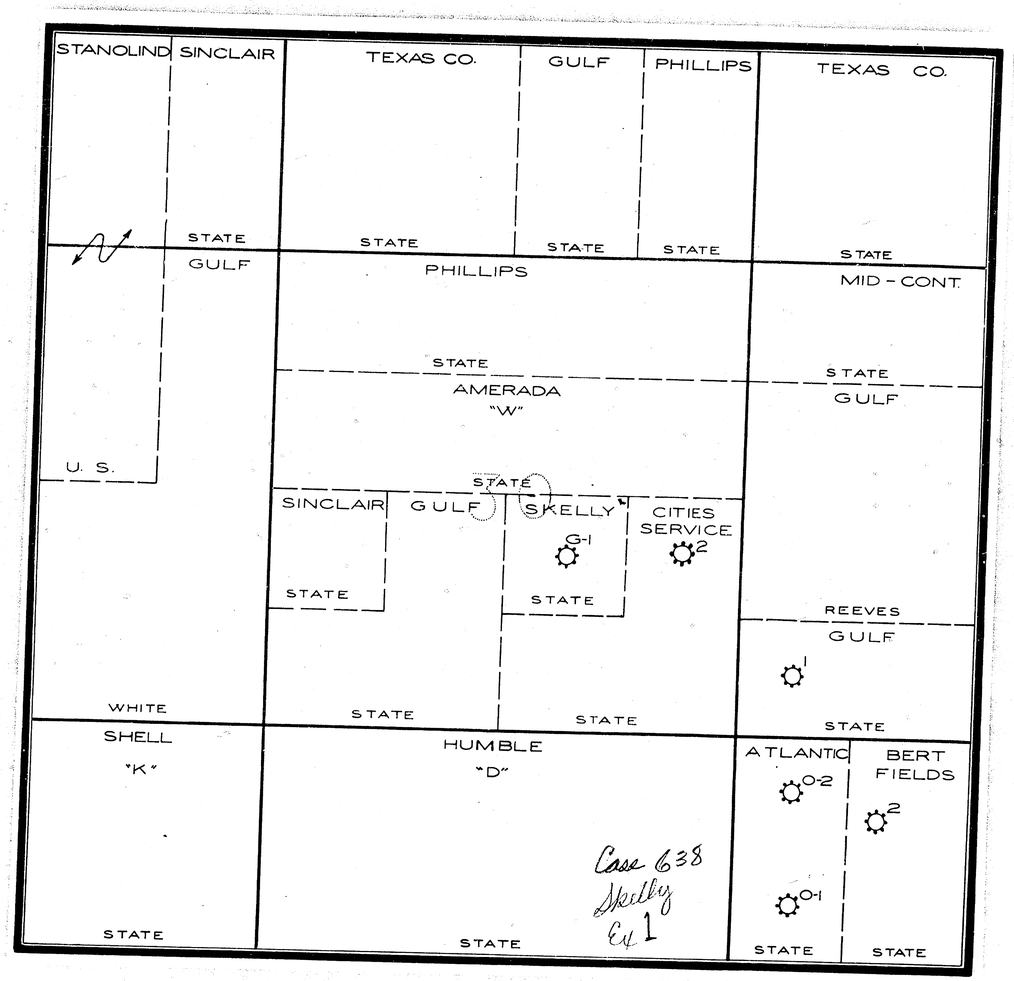




144

145


GULF
1
EL PASO NAT. GAS
WESTERN NAT. GAS
4
CONTL.-ATLANTIC
STANO.-STD. of TEX.
PLAINS PROD.
4
2
CRAWFORD ET ALL
CALLEY
U. S.
3
WOOLWORTH
CULBERTSON & IRWIN
2
ANDERSON & PRITCHARD
KENWOOD
1
SINCLAIR
RODMAN
FORCHALL OIL CO.
STATE
STATE
HUMBLE 'L'
E-1
3
MARTIN
SKELLY
STATE
S KELLY
3.2
STATE
ATLANTIC
L-1
R.G. CLAY
1
3
ATLANTIC
1
SINCLAIR
FORCHALL OIL CO.
C2
C-1
2
SHERRELL
STATE
STATE
STATE
WOOLWORTH
SKELLY
3
ITALO
1
ROSLEY-AND. PRIT.-E.J.WELLS.
3
WESTATES
B-1
B-1
ROSLEY ET AL
ROSLEY ET AL
4
PHILLIPS
U. S.
WOOLWORTH
U. S.
635
Skelly
U. S.



146

Case 638
Skelly
Ex 1

147

LANE RADIOACTIVITY LOG WELLS
COMPANY

Shelly Ex 3
Case 638

FILE NO.

Location of Well	
3531' D.F.	COMPANY: SKELLY OIL COMPANY WELL: STATE G NO. 1 FIELD: MONUMENT COUNTY: LEA STATE: N.MEX. LOCATION: CENTER NW/4 OF SE/4 SEC. 30-20S-37E

COMPANY: SKELLY OIL CO.
WELL: STATE "G" NO. 1
FIELD: NON KENT
COUNTY: LEA
LOCATION: STATE N. M.

LOG MEAS. FROM GROUND LEVEL ELEV. *
DRLG. MEAS. FROM GROUND LEVEL ELEV. *
PERM. DATUM GROUND LEVEL ELEV. *

TYPE OF LOG	G/R	N-
RUN NO.	1	1
DATE	9-26-51	9-26-51
TOTAL DEPTH (DRILLER) BACK	3840'	3840'
EFFECTIVE DEPTH (DRILLER)	3840'	3840'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3831'	3831'
TYPE OF FLUID IN HOLE	DRY	DRY
FLUID LEVEL		
MAXIMUM RECORDED TEMP.		
NEUTRON SOURCE STRENGTH & TYPE		600K
SOURCE SPACING — IN.		0.75"
LENGTH OF MEASURING DEVICE — IN.	36"	9"
O.D. OF INSTRUMENT — IN.	3 5/8"	3 5/8"
TIME CONSTANT — SECONDS	H	E
LOGGING SPEED FT. MIN.	40	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	KELLY	KELLY
WITNESSED BY	GARTMAN	GARTMAN

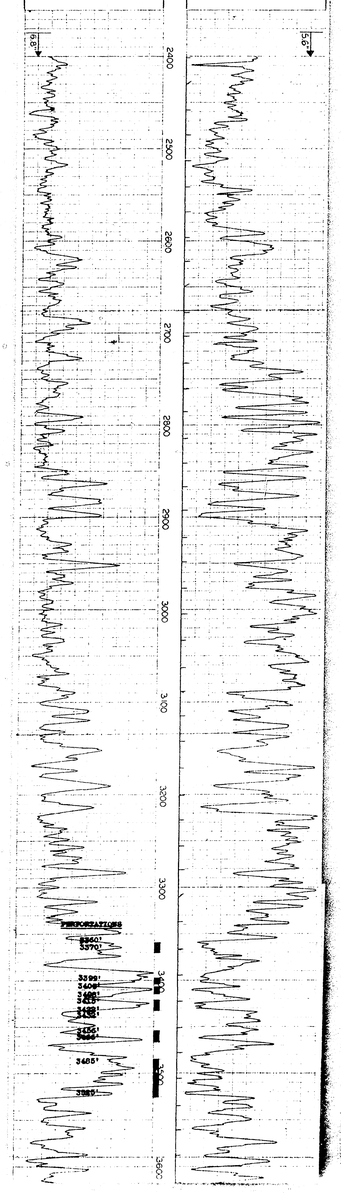
CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM WELL RECORD	INTERVAL FROM R A LOG
1	5 1/4	7"		3712'	3707'
				10	10
				10	10
				10	10

REMARKS OR OTHER DATA

* COMPLETE RADIATION INTERVALS

GAMMA RAY — RADIATION INTENSITY INCREASES
CASING & COLLAR LOG DEPTH
NEUTRON — RADIATION INTENSITY INCREASES



LANE RADIOACTIVITY LOG WELLS
COMPANY

FILE NO.

Location of Well	
3531' D.F.	COMPANY: SKELLY OIL COMPANY WELL: STATE G NO. 1 FIELD: MONUMENT COUNTY: LEA STATE: N.MEX. LOCATION: CENTER NW/4 OF SE/4 SEC. 30-20S-37E

COMPANY: SKELLY OIL CO.
WELL: STATE "G" NO. 1
FIELD: NON KENT
COUNTY: LEA
LOCATION: STATE N. M.

LOG MEAS. FROM GROUND LEVEL ELEV. *
DRLG. MEAS. FROM GROUND LEVEL ELEV. *
PERM. DATUM GROUND LEVEL ELEV. *

TYPE OF LOG	G/R	N-
RUN NO.	1	1
DATE	9-26-51	9-26-51
TOTAL DEPTH (DRILLER) BACK	3840'	3840'
EFFECTIVE DEPTH (DRILLER)	3840'	3840'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3831'	3831'
TYPE OF FLUID IN HOLE	DRY	DRY
FLUID LEVEL		
MAXIMUM RECORDED TEMP.		
NEUTRON SOURCE STRENGTH & TYPE		600K
SOURCE SPACING — IN.		0.75"
LENGTH OF MEASURING DEVICE — IN.	36"	9"
O.D. OF INSTRUMENT — IN.	3 5/8"	3 5/8"
TIME CONSTANT — SECONDS	H	E
LOGGING SPEED FT. MIN.	40	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	KELLY	KELLY
WITNESSED BY	GARTMAN	GARTMAN

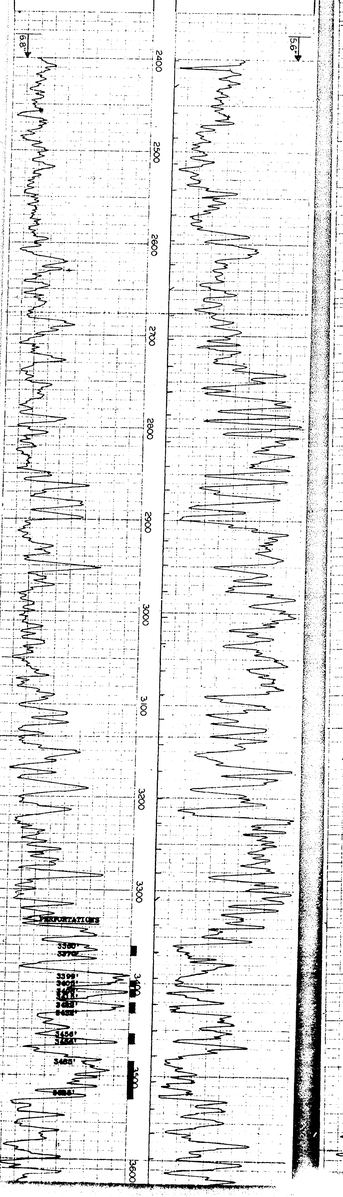
CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM WELL RECORD	INTERVAL FROM R A LOG
1	5 1/4	7"		3712'	3707'
				10	10
				10	10
				10	10

REMARKS OR OTHER DATA

* COMPLETE RADIATION INTERVALS

GAMMA RAY — RADIATION INTENSITY INCREASES
CASING & COLLAR LOG DEPTH
NEUTRON — RADIATION INTENSITY INCREASES



LANE RADIOACTIVITY LOG WELLS
COMPANY

FILE NO.

Location of Well	
3531' D.F.	COMPANY: SKELLY OIL COMPANY WELL: STATE G NO. 1 FIELD: MONUMENT COUNTY: LEA STATE: N.MEX. LOCATION: CENTER NW/4 OF SE/4 SEC. 30-20S-37E

COMPANY: SKELLY OIL CO.
WELL: STATE "G" NO. 1
FIELD: NON KENT
COUNTY: LEA
LOCATION: STATE N. M.

LOG MEAS. FROM GROUND LEVEL ELEV. *
DRLG. MEAS. FROM GROUND LEVEL ELEV. *
PERM. DATUM GROUND LEVEL ELEV. *

TYPE OF LOG	G/R	N-
RUN NO.	1	1
DATE	9-26-51	9-26-51
TOTAL DEPTH (DRILLER) BACK	3840'	3840'
EFFECTIVE DEPTH (DRILLER)	3840'	3840'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3831'	3831'
TYPE OF FLUID IN HOLE	DRY	DRY
FLUID LEVEL		
MAXIMUM RECORDED TEMP.		
NEUTRON SOURCE STRENGTH & TYPE		600K
SOURCE SPACING — IN.		0.75"
LENGTH OF MEASURING DEVICE — IN.	36"	9"
O.D. OF INSTRUMENT — IN.	3 5/8"	3 5/8"
TIME CONSTANT — SECONDS	H	E
LOGGING SPEED FT. MIN.	40	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	KELLY	KELLY
WITNESSED BY	GARTMAN	GARTMAN

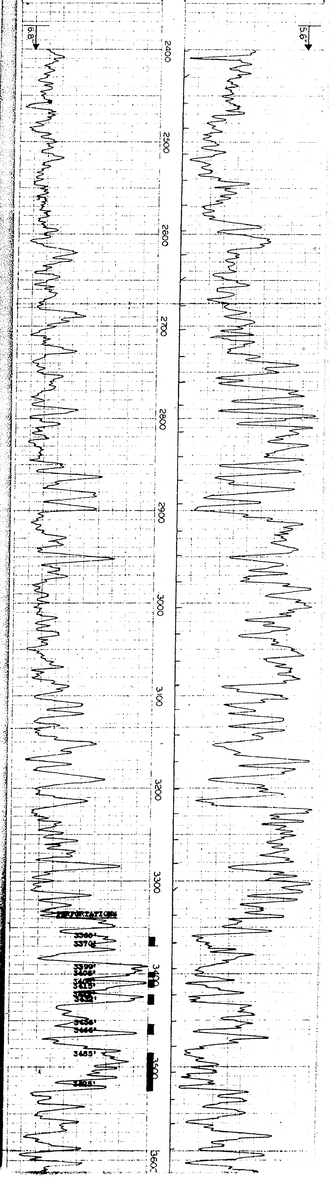
CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM WELL RECORD	INTERVAL FROM R A LOG
1	5 1/4	7"		3712'	3707'
				10	10
				10	10
				10	10

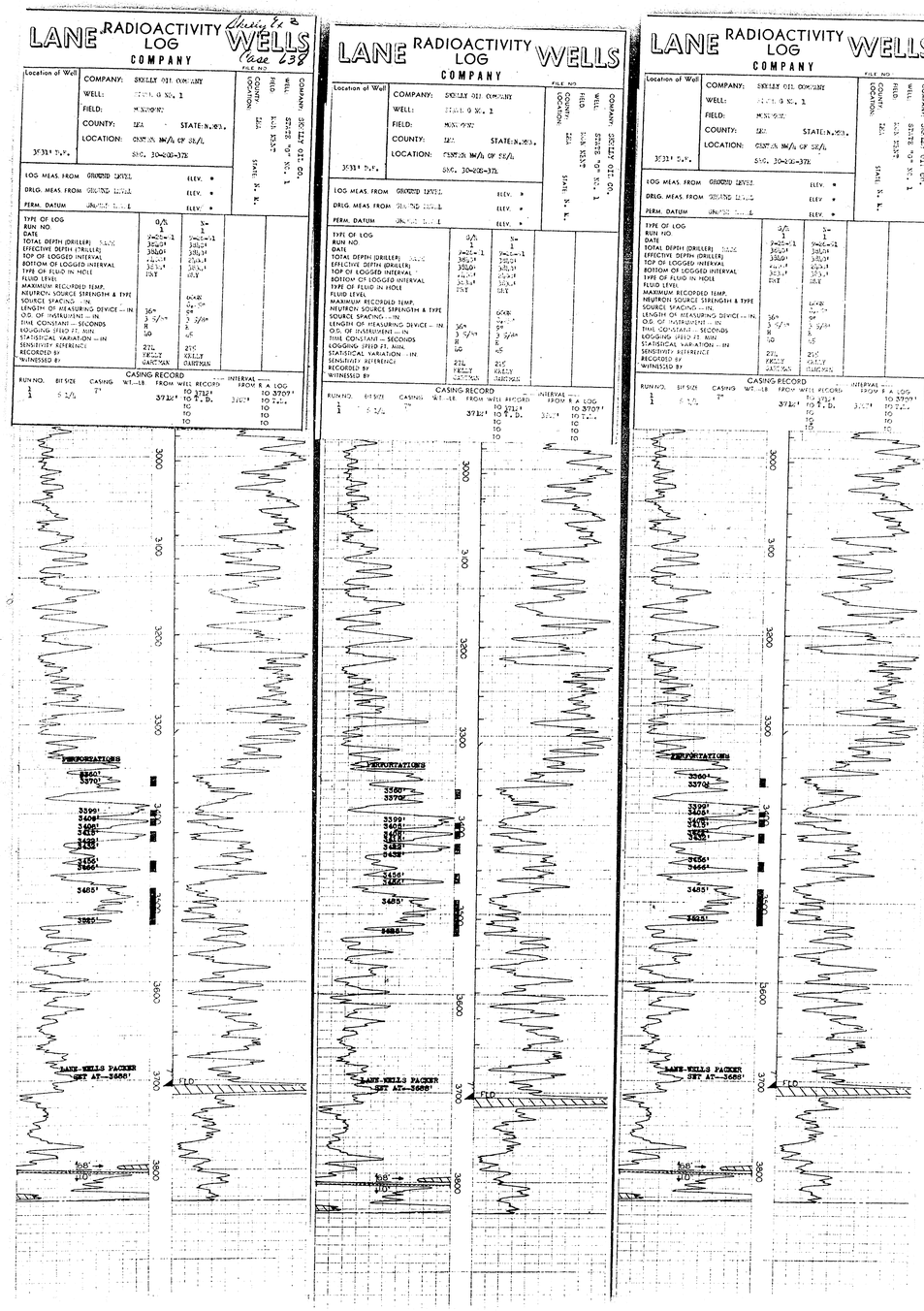
REMARKS OR OTHER DATA

* COMPLETE RADIATION INTERVALS

GAMMA RAY — RADIATION INTENSITY INCREASES
CASING & COLLAR LOG DEPTH
NEUTRON — RADIATION INTENSITY INCREASES



148


LANE RADIOACTIVITY LOG WELLS
COMPANY
Location of Well
COMPANY: SKELLY OIL COMPANY
WELL: STATE G NO. 1
FIELD: MONUMENT
COUNTY: LEA STATE: N. MEX.
LOCATION: CENTER NW/4 OF SE/4
SEC. 30-20S-37E
3533' D.F.
LOG MEAS. FROM GROUND LEVEL ELEV. *
DRLG. MEAS. FROM GROUND LEVEL ELEV. *
PERM. DATUM GROUND LEVEL ELEV. *
TYPE OF LOG
RUN NO.
DATE
TOTAL DEPTH (DRILLER)
EFFECTIVE DEPTH (DRILLER)
TOP OF LOGGED INTERVAL
BOTTOM OF LOGGED INTERVAL
TYPE OF FLUID IN HOLE
FLUID LEVEL
MAXIMUM RECORDED TEMP.
NEUTRON SOURCE STRENGTH & TYPE
SOURCE SPACING — IN.
LENGTH OF MEASURING DEVICE — IN.
O.D. OF INSTRUMENT — IN.
TIME CONSTANT — SECONDS
LOGGING SPEED FT. MIN.
STATISTICAL VARIATION — IN
SENSITIVITY REFERENCE
RECORDED BY
WITNESSED BY
CASING RECORD
RUN NO. BIT SIZE CASING WT.—LB FROM WELL RECORD INTERVAL FROM R A LOG
PERFORATIONS
3360'
3370'
3399'
3409'
3428'
3435'
3455'
3465'
3485'
3525'
LANE-WELLS PACKER SET AT—3668'
FLD
3600
3700
3800

LANE RADIOACTIVITY LOG WELLS
COMPANY
Location of Well
COMPANY: SKELLY OIL COMPANY
WELL: STATE G NO. 1
FIELD: MONUMENT
COUNTY: LEA STATE: N. MEX.
LOCATION: CENTER NW/4 OF SE/4
SEC. 30-20S-37E
3533' D.F.
LOG MEAS. FROM GROUND LEVEL ELEV. *
DRLG. MEAS. FROM GROUND LEVEL ELEV. *
PERM. DATUM GROUND LEVEL ELEV. *
CASING RECORD
PERFORATIONS
3360'
3370'
3399'
3409'
3428'
3435'
3455'
3465'
3485'
3525'
LANE-WELLS PACKER SET AT—3668'
FLD
3600
3700
3800

LANE RADIOACTIVITY LOG WELLS
COMPANY
Location of Well
COMPANY: SKELLY OIL COMPANY
WELL: STATE G NO. 1
FIELD: MONUMENT
COUNTY: LEA STATE: N. MEX.
LOCATION: CENTER NW/4 OF SE/4
SEC. 30-20S-37E
3533' D.F.
LOG MEAS. FROM GROUND LEVEL ELEV. *
DRLG. MEAS. FROM GROUND LEVEL ELEV. *
PERM. DATUM GROUND LEVEL ELEV. *
CASING RECORD
PERFORATIONS
3360'
3370'
3399'
3409'
3428'
3435'
3455'
3465'
3485'
3525'
LANE-WELLS PACKER SET AT—3668'
FLD
3600
3700
3800

LANE RADIOACTIVITY LOG WELLS COMPANY

Skelly #3
Case 639
FILE NO.

Location of Well	
COMPANY:	SKELLY OIL CO.
WELL:	PACIFIC WESTERN STATE "D" NO. 1
FIELD:	MONUMENT
COUNTY:	LEA STATE: N. MEX.
LOCATION:	*

COMPANY: SKELLY OIL CO.
WELL: PACIFIC WESTERN STATE "D" #1
FIELD: MONUMENT
COUNTY: LEA
LOCATION: STATE: N. MEX.

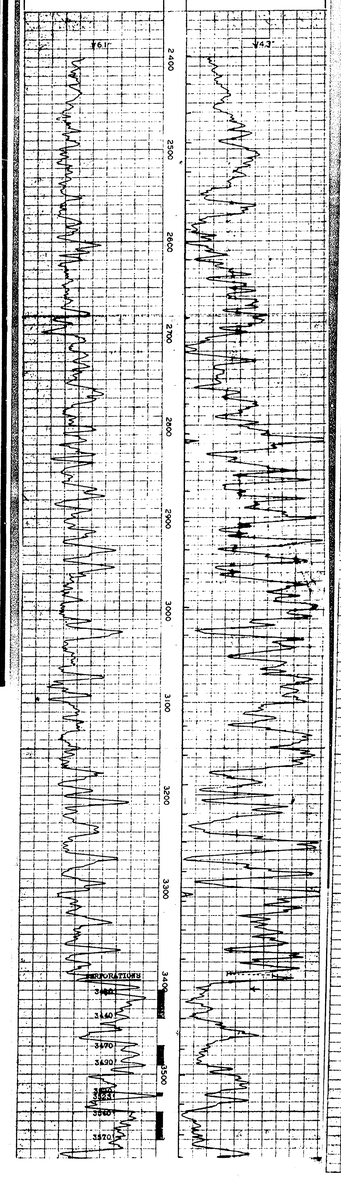
LOG MEAS. FROM	5 1/2" BRADEN HEAD	ELEV. *
DRLG. MEAS. FROM	5 1/2" BRADEN HEAD	ELEV. *
PERM. DATUM	5 1/2" BRADEN HEAD	ELEV. *

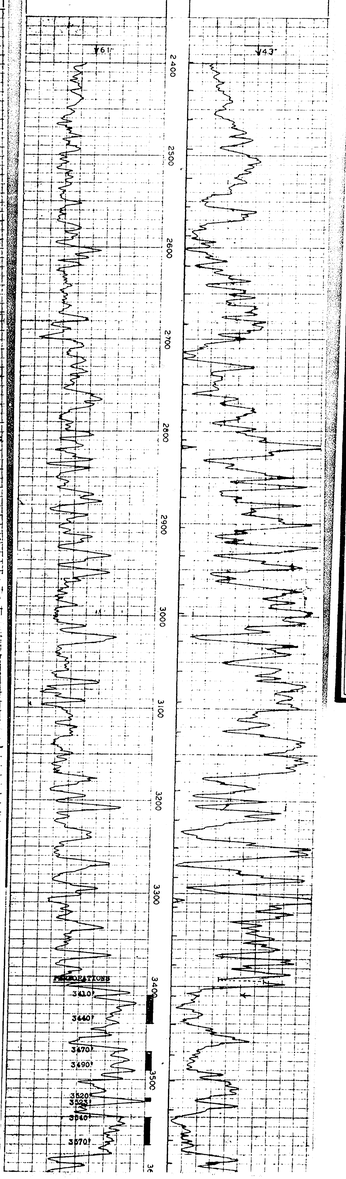
TYPE OF LOG	O/R	N-
RUN NO.	1	1
DATE	5-17-51	5-17-51
TOTAL DEPTH (DRILLER) WIRE LINE	3860'	3860'
EFFECTIVE DEPTH (DRILLER)	3860'	3860'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3816'	3816'
TYPE OF FLUID IN HOLE	OIL & WATER	
FLUID LEVEL	FULL	FULL
MAXIMUM RECORDED TEMP.		
NEUTRON SOURCE STRENGTH & TYPE		600N
SOURCE SPACING — IN.		8.25
LENGTH OF MEASURING DEVICE — IN.	36	9
O.D. OF INSTRUMENT — IN.	3 5/8	3 5/8
TIME CONSTANT — SECONDS	N	N
LOGGING SPEED FT. MIN.	40	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	RUNION	RUNION
WITNESSED BY	WILKIE	WILKIE

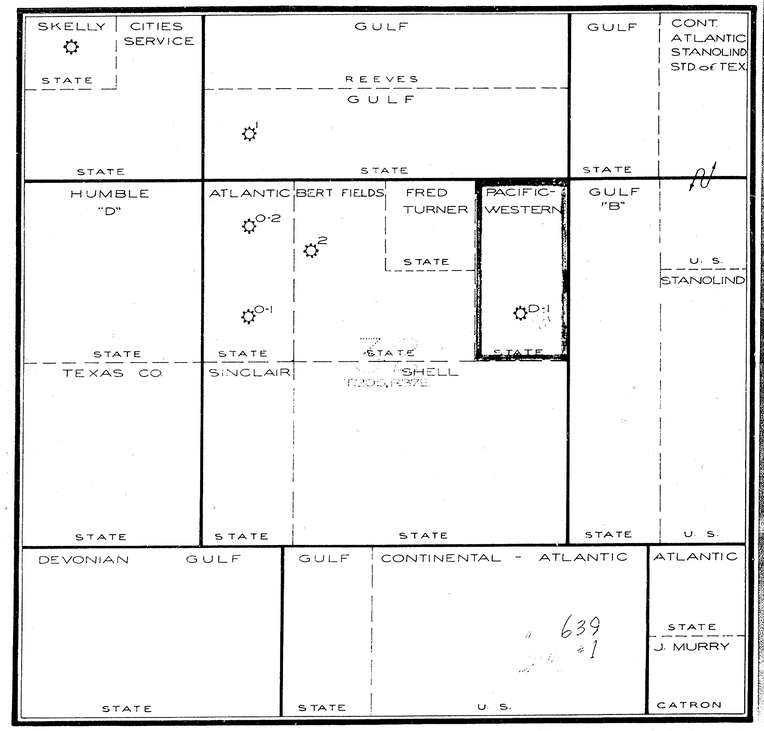
CASING RECORD				OPEN (BORE) HOLE RECORD		
RUN NO.	SIZE—IN.	WT.—LB.	INTERVAL	DIT SIZE—IN.	INTERVAL	
1	5 1/2		SURF. TO 3698'	7 7/8	SURF. TO 3685'	
			TO	4 3/4	3685' TO T. D.	
			TO		TO	
			TO		TO	
			TO		TO	

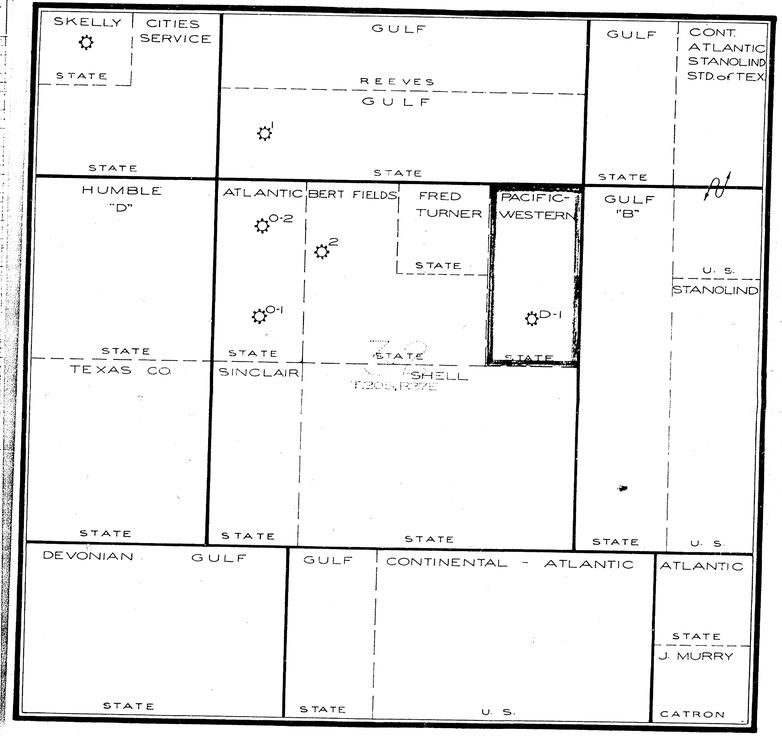
REMARKS OR OTHER DATA
* LOCATION AND ELEVATION UNAVAILABLE.

GAMMA RAY → RADIATION INTENSITY INCREASES
NEUTRON → RADIATION INTENSITY INCREASES









149

SKELLY	CITIES SERVICE	GULF		GULF	CONT. ATLANTIC STANOLIND STD. of TEX.
STATE		REEVES GULF			
		STATE		STATE	
HUMBLE "D"	ATLANTIC	BERT FIELDS	FRED TURNER	PACIFIC-WESTERN	GULF "B"
	O-2	2	STATE	D-1	U. S. STANOLIND
	O-1				
STATE	STATE	STATE		STATE	STATE
TEXAS CO	SINCLAIR	SHELL T-20S-R-37E			
STATE	STATE	STATE		STATE	U. S.

DEVONIAN	GULF	GULF	CONTINENTAL - ATLANTIC	ATLANTIC
				STATE J. MURRY
STATE	STATE	U. S.		CATRON

639
1

150

LANE RADIOACTIVITY LOG WELLS

Shelly & 3
Case 639

COMPANY

FILE NO.

Location of Well			
	COMPANY: SKELLY OIL CO.	COMPANY: SKELLY OIL CO.	
	WELL: PACIFIC WESTERN STATE "D" NO. 1	WELL: PACIFIC WESTERN STATE "D" NO. 1	
	FIELD: MONUMENT	FIELD: MONUMENT	
	COUNTY: LEA STATE: N. MEX.	COUNTY: LEA STATE: N. MEX.	
	LOCATION: *	LOCATION: *	

LOG MEAS. FROM	5 1/2" BRADEN HEAD	ELEV. *
DRLG. MEAS. FROM	5 1/2" BRADEN HEAD	ELEV. *
PERM. DATUM	5 1/2" BRADEN HEAD	ELEV. *

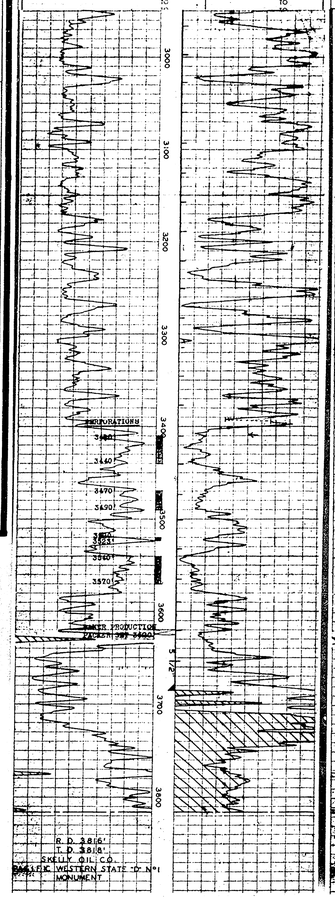
TYPE OF LOG	O/R	N-
RUN NO.	1	1
DATE	8-17-51	8-17-51
TOTAL DEPTH (DRILLER) WIRE LINE	3860'	3860'
EFFECTIVE DEPTH (DRILLER)	3860'	3860'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3814'	3814'
TYPE OF FLUID IN HOLE	OIL & WATER	
FLUID LEVEL	FULL	FULL
MAXIMUM RECORDED TEMP.		400N
NEUTRON SOURCE STRENGTH & TYPE		8.25
SOURCE SPACING — IN.		9
LENGTH OF MEASURING DEVICE — IN.	36	5
O.D. OF INSTRUMENT — IN.	3 5/8	3 5/8
TIME CONSTANT — SECONDS	X	X
LOGGING SPEED FT. MIN.	40	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	REYNOLDS	REYNOLDS
WITNESSED BY	WILKIE	WILKIE

CASING RECORD

RUN NO.	SIZE—IN.	WT.—LB.	INTERVAL
1	5 1/2	SURF.	3409'

OPEN (BORE) HOLE RECORD

DIA. SIZE—IN.	INTERVAL	
7 7/8	SURF. TO	3685'
4 3/4	3685' TO	T. D.



LANE RADIOACTIVITY LOG WELLS

COMPANY

FILE NO.

Location of Well			
	COMPANY: SKELLY OIL CO.	COMPANY: SKELLY OIL CO.	
	WELL: PACIFIC WESTERN STATE "D" NO. 1	WELL: PACIFIC WESTERN STATE "D" NO. 1	
	FIELD: MONUMENT	FIELD: MONUMENT	
	COUNTY: LEA STATE: N. MEX.	COUNTY: LEA STATE: N. MEX.	
	LOCATION: *	LOCATION: *	

LOG MEAS. FROM	5 1/2" BRADEN HEAD	ELEV. *
DRLG. MEAS. FROM	5 1/2" BRADEN HEAD	ELEV. *
PERM. DATUM	5 1/2" BRADEN HEAD	ELEV. *

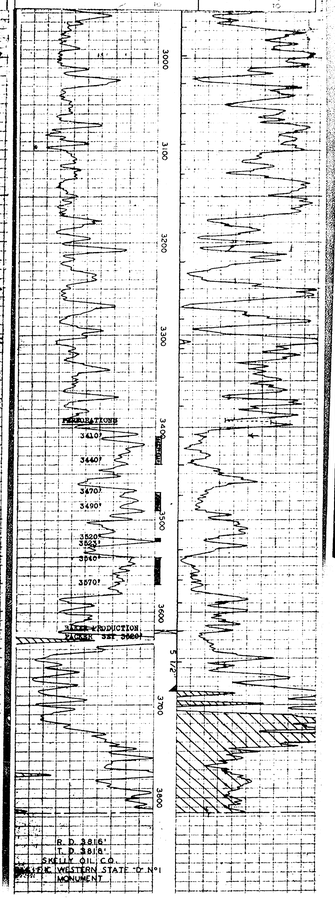
TYPE OF LOG	O/R	N-
RUN NO.	1	1
DATE	8-17-51	8-17-51
TOTAL DEPTH (DRILLER) WIRE LINE	3860'	3860'
EFFECTIVE DEPTH (DRILLER)	3860'	3860'
TOP OF LOGGED INTERVAL	2400'	2400'
BOTTOM OF LOGGED INTERVAL	3814'	3814'
TYPE OF FLUID IN HOLE	OIL & WATER	
FLUID LEVEL	FULL	FULL
MAXIMUM RECORDED TEMP.		400N
NEUTRON SOURCE STRENGTH & TYPE		8.25
SOURCE SPACING — IN.		9
LENGTH OF MEASURING DEVICE — IN.	36	5
O.D. OF INSTRUMENT — IN.	3 5/8	3 5/8
TIME CONSTANT — SECONDS	X	X
LOGGING SPEED FT. MIN.	40	45
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	REYNOLDS	REYNOLDS
WITNESSED BY	WILKIE	WILKIE

CASING RECORD

RUN NO.	SIZE—IN.	WT.—LB.	INTERVAL
1	5 1/2	SURF.	3409'

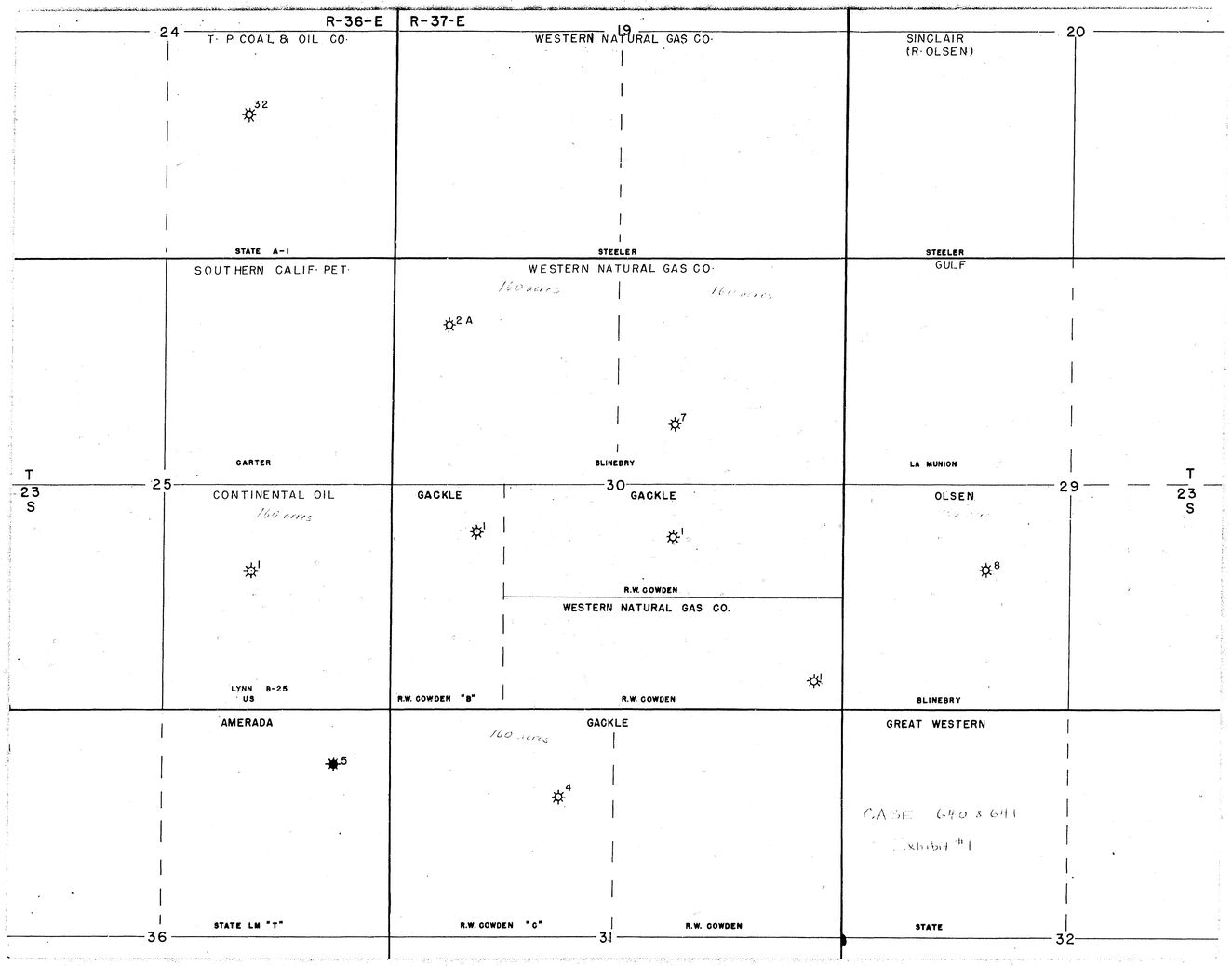
OPEN (BORE) HOLE RECORD

DIA. SIZE—IN.	INTERVAL	
7 7/8	SURF. TO	3685'
4 3/4	3685' TO	T. D.



SKELLY	CITIES SERVICE	GULF		GULF	CONT. ATLANTIC STANOLIND STD. of TEX.
STATE		REEVES GULF			
		STATE		STATE	
HUMBLE "D"	ATLANTIC	BERT FIELDS	FRED TURNER	PACIFIC-WESTERN	GULF "B"
	O-2	2	STATE	D-1	U. S. STANOLIND
	O-1				
STATE	STATE	STATE		STATE	STATE
TEXAS CO	SINCLAIR	SHELL T-20S-R-37E			
STATE	STATE	STATE		STATE	U. S.

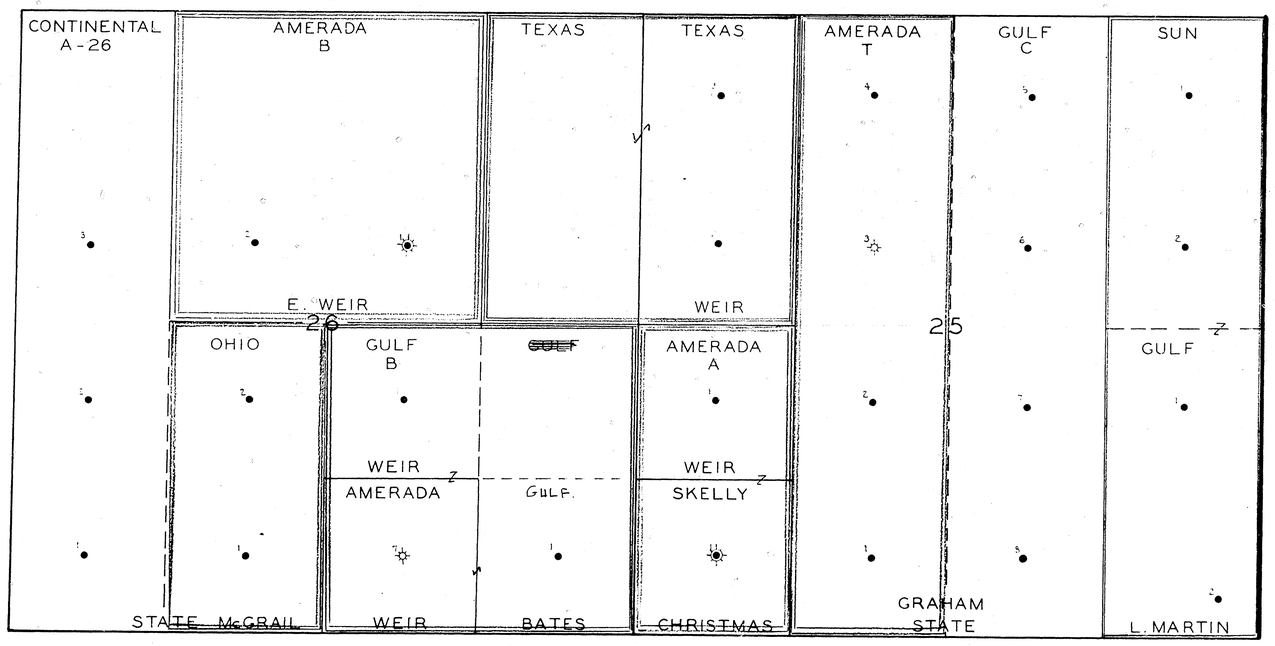
DEVONIAN	GULF	GULF	CONTINENTAL - ATLANTIC	ATLANTIC
				STATE J. MURRY
STATE	STATE	U. S.		CATRON


R-36-E
R-37-E
24
19
20
T. P. COAL & OIL CO.
WESTERN NATURAL GAS CO.
SINCLAIR
(R. OLSEN)
32
STATE A-1
STEELER
STEELER
SOUTHERN CALIF. PET.
WESTERN NATURAL GAS CO.
GULF
160 acres
160 acres
2 A
7
CARTER
BLINEBRY
LA MUNION
T
23
S
25
30
29
T
23
S
CONTINENTAL OIL
GACKLE
GACKLE
OLSEN
160 acres
1
1
8
R.W. COWDEN
WESTERN NATURAL GAS CO.
LYNN B-25
US
R.W. COWDEN "B"
R.W. COWDEN
BLINEBRY
AMERADA
GACKLE
GREAT WESTERN
160 acres
5
4
CASE 640 & 641
Exhibit #1
STATE LM "T"
R.W. COWDEN "C"
R.W. COWDEN
STATE
36
31
32

151

Exhibit C

R 36 E



152

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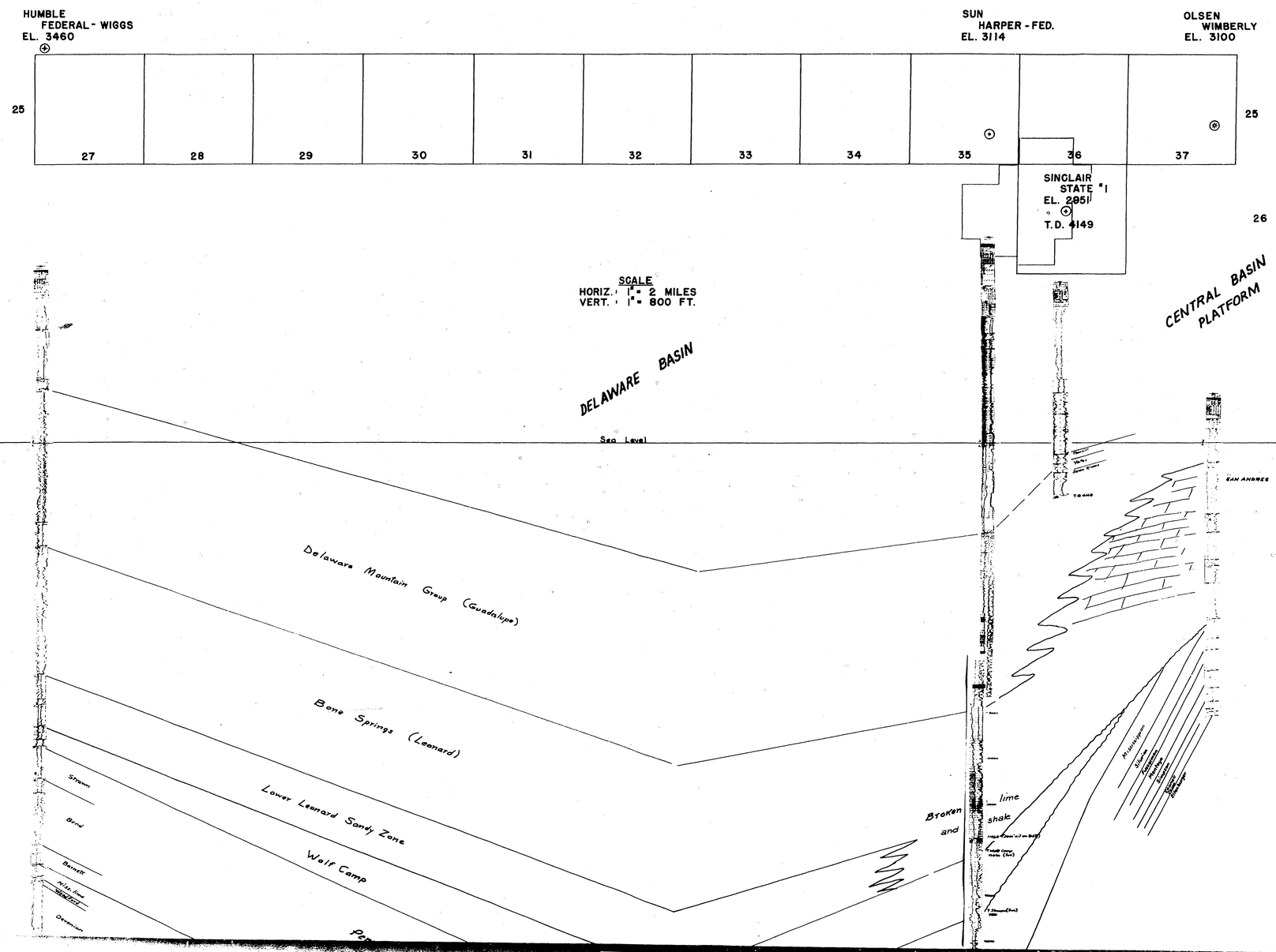
19
S


HUMBLE
FEDERAL - WIGGS
EL. 3460
SUN
HARPER - FED.
EL. 3114
OLSEN
WIMBERLY
EL. 3100
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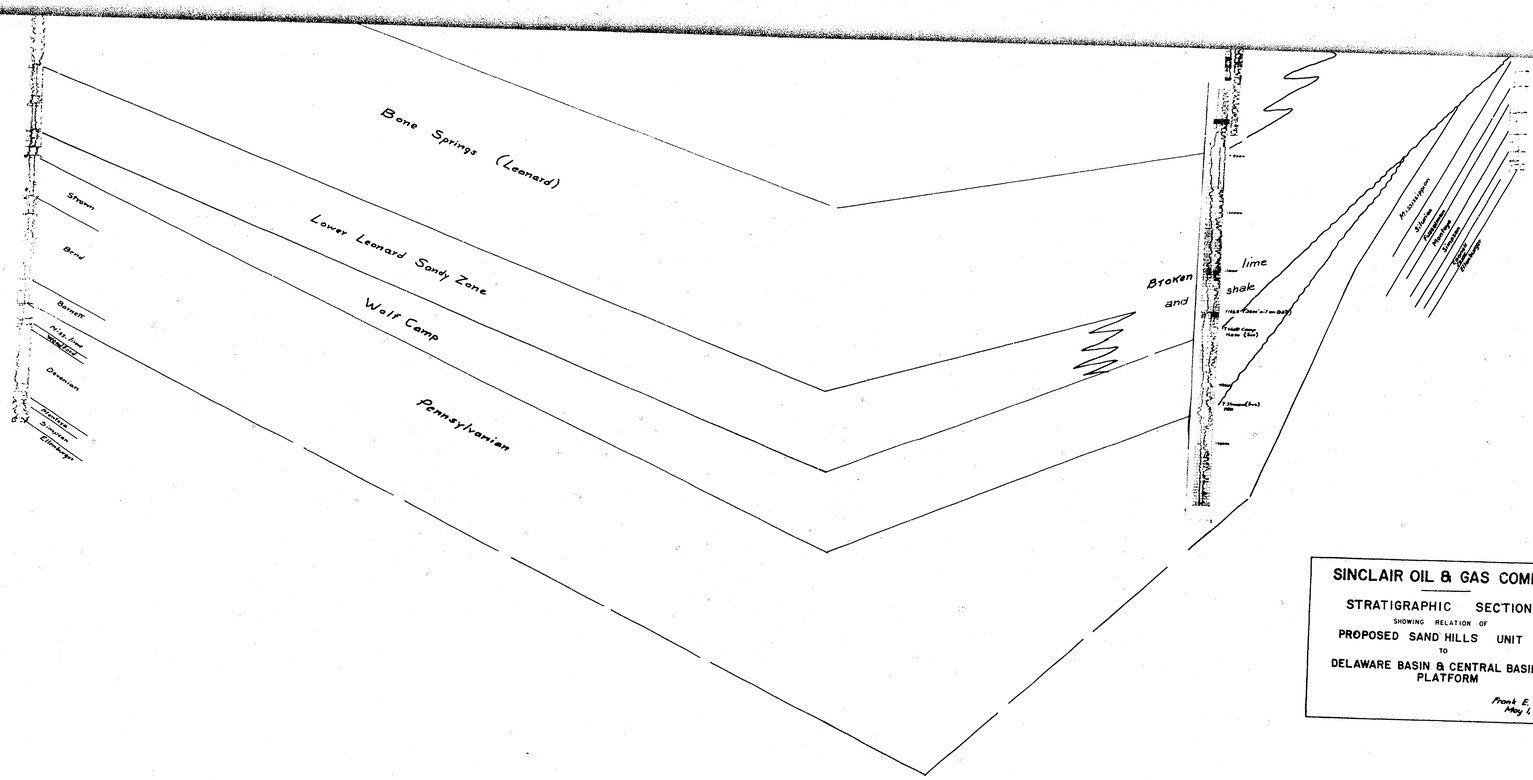
SINCLAIR
STATE #1
EL. 2951
T.D. 4149
26
SCALE
HORIZ.: 1" = 2 MILES
VERT.: 1" = 800 FT.
CENTRAL BASIN
PLATFORM
DELAWARE BASIN
Sea Level
SAN ANDRES
Delaware Mountain Group (Guadalupe)
Bone Springs (Leonard)
Lower Leonard Sandy Zone
Wolf Camp
Broken lime
and shale
Strawn
Bend
Barnett
Miss. lime
Devonian

153



SINCLAIR OIL & GAS COMPANY

STRATIGRAPHIC SECTION
SHOWING RELATION OF
PROPOSED SAND HILLS UNIT
TO
DELAWARE BASIN & CENTRAL BASIN PLATFORM

Frank E. Poulsen
May 1, 1953

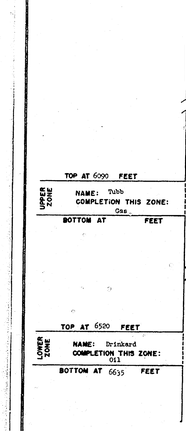
EXHIBIT E-63

154

Case 656 Exh J

DIAGRAMMATIC SKETCH SHOWING DUAL COMPLETION INSTALLATION

Survey H 656



UPPER ZONE
TOP AT 6090 FEET
NAME: Tubb
COMPLETION THIS ZONE: Gas
BOTTOM AT FEET
PERFORATED: (new completion)
THIS ZONE PRODUCED THROUGH Casing

A Baker Model "D" production packer will be set at approximately 6500'

LOWER ZONE
TOP AT 6520 FEET
NAME: Drinkard
COMPLETION THIS ZONE: Oil
BOTTOM AT 6635 FEET
PERFORATED: (Open hole)
THIS ZONE PRODUCED THROUGH Tubing

7" CASING SET AT 6514 FEET
TOTAL WELL DEPTH: 6635 FEET

COMPANY: Sunray Oil Corporation
LEASE : Elliott "A" WELL NO. 2
FIELD : Drinkard and Tubb
DATE : December 30, 1953

Engr. Dept. No Scale
484-GCK

155

R 37 E

T 21 S

NEW MEXICO — TEXAS

EUNICE

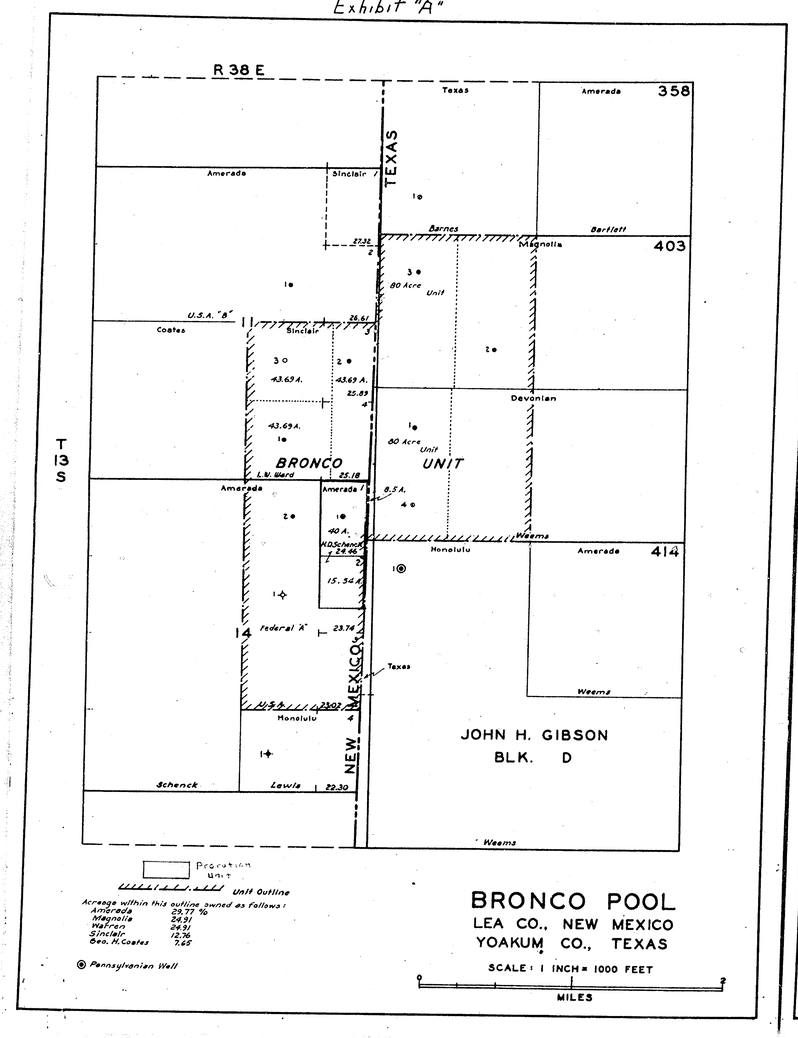
● - Wells in which Tubb Gas Sand has been proved to be productive

SUNRAY OIL CORPORATION
ENGINEERING DEPARTMENT
EUNICE & HARE FIELDS
LEA COUNTY NEW MEXICO
0 1000 2000 3000
1" = 1000'
GCK Appr. [illegible] 12-26-51

Expl. Drwg. "C-24

156

Exhibit "A"



Production Unit

Unit Outline

Acreage within this outline owned as follows:

Amerada	29.77 %
Magnolia	24.91
Hafren	24.91
Sinclair	12.76
Geo. H. Coates	7.65

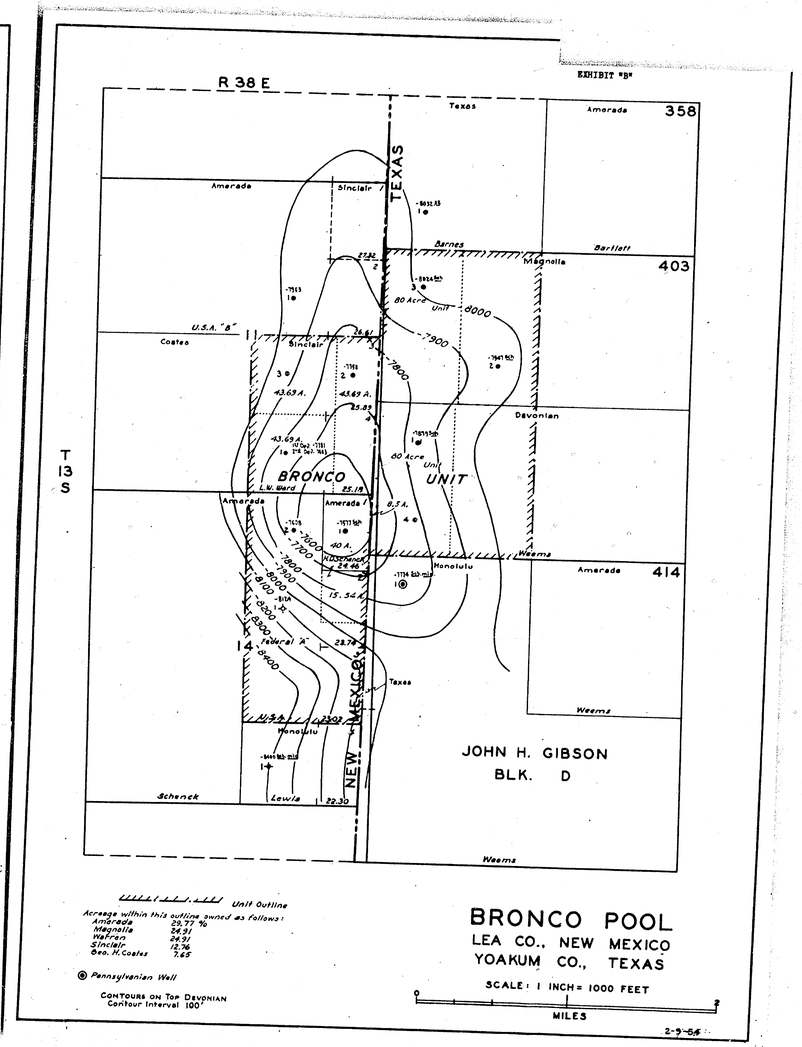
◉ Pennsylvanian Well

BRONCO POOL
LEA CO., NEW MEXICO
YOAKUM CO., TEXAS

SCALE: 1 INCH = 1000 FEET

MILES

EXHIBIT "B"



Unit Outline

Acreage within this outline owned as follows:

Amerada	29.77 %
Magnolia	24.91
Hafren	24.91
Sinclair	12.76
Geo. H. Coates	7.65

◉ Pennsylvanian Well

CONTOURS ON TOP DEVONIAN
Contour Interval 100'

BRONCO POOL
LEA CO., NEW MEXICO
YOAKUM CO., TEXAS

SCALE: 1 INCH = 1000 FEET

MILES

2-9-64

2-3-54 JAW:1 (7)

FEB ... 54

Case 665

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

APPLICATION OF AMERADA PETROLEUM CORPORATION FOR THE ESTABLISHMENT OF THREE PRORATION UNITS IN THE SE/4 SEC. 11-13S-38E, BRONCO FIELD, LEA COUNTY, NEW MEXICO, CONSISTING OF THE EAST 43.69 ACRES AND THE NORTH AND SOUTH 43.69 ACRES OF THE WEST HALF OF SAID QUARTER SECTION.

APPLICATION

COMES NOW Amerada Petroleum Corporation and alleges and states:

(1) That it is the owner of oil and gas leases covering the SE/4 of Section 11, Township 13 South, Range 38 East, Lea County, New Mexico.

(2) That the east line of said quarter section coincides with the boundary line between New Mexico and Texas, and because of the adjustment of the survey on the east line, this quarter section contains only 131.07 acres.

(3) That applicant has heretofore completed its Ward #1 Well, located approximately 660 feet from the south and west line of said quarter section, and its Ward #2 Well, located approximately 660 feet from the north and 520 feet from the east line of said quarter section; and applicant is presently drilling its Ward #3 Well 660 feet from the north and west line of said quarter section.

(4) That each of these wells is an oil well in the Bronco Field, Lea County, New Mexico.

(5) That because of the size and shape of said quarter section four 40-acre proration units substantially in the form of a square cannot be established in said quarter section and all three of said wells cannot be located on 40 contiguous surface acres in the form of a square within said quarter section.

(6) That establishment of three proration units in said quarter section, consisting of the east 43.69 acres and the north and south 43.69 acres of the west half of said quarter section, as shown on a plat marked Exhibit "A", attached hereto and made a part hereof, will secure to applicant the full value of its wells in said quarter section and will not result in waste or injury to correlative rights.

WHEREFORE, applicant respectfully requests that this matter be set down for hearing and that the proration units proposed herein be established.

DATED this 3 day of February, 1954.

AMERADA PETROLEUM CORPORATION

By John A. Woodward
John A. Woodward,
Its Attorney

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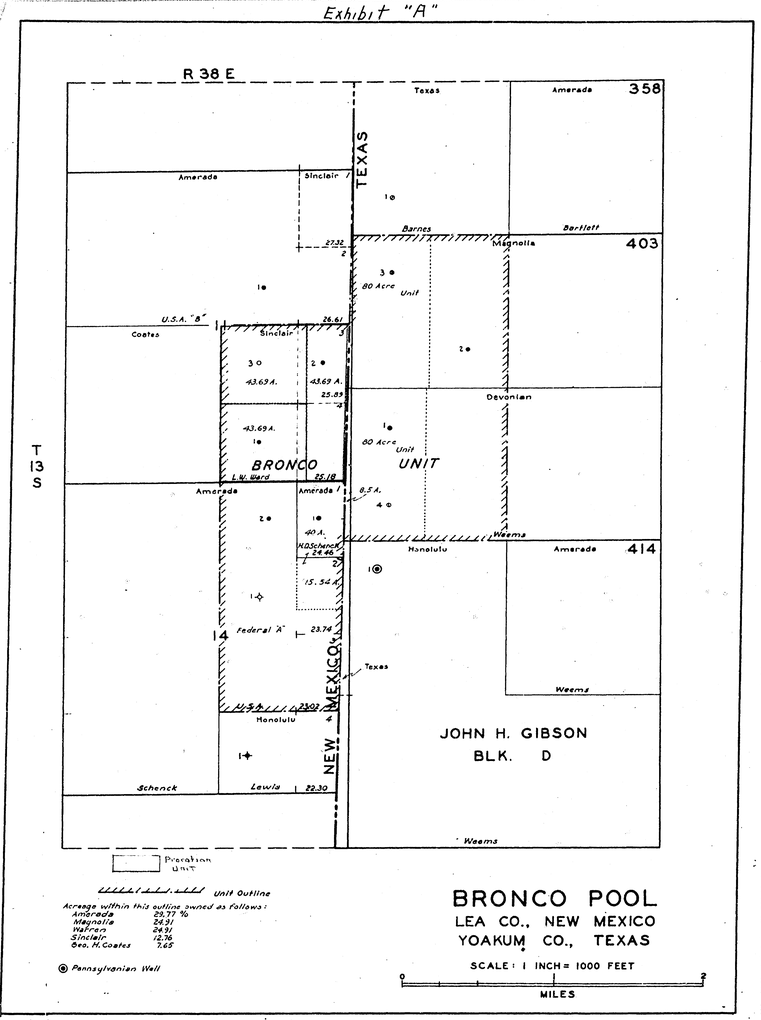
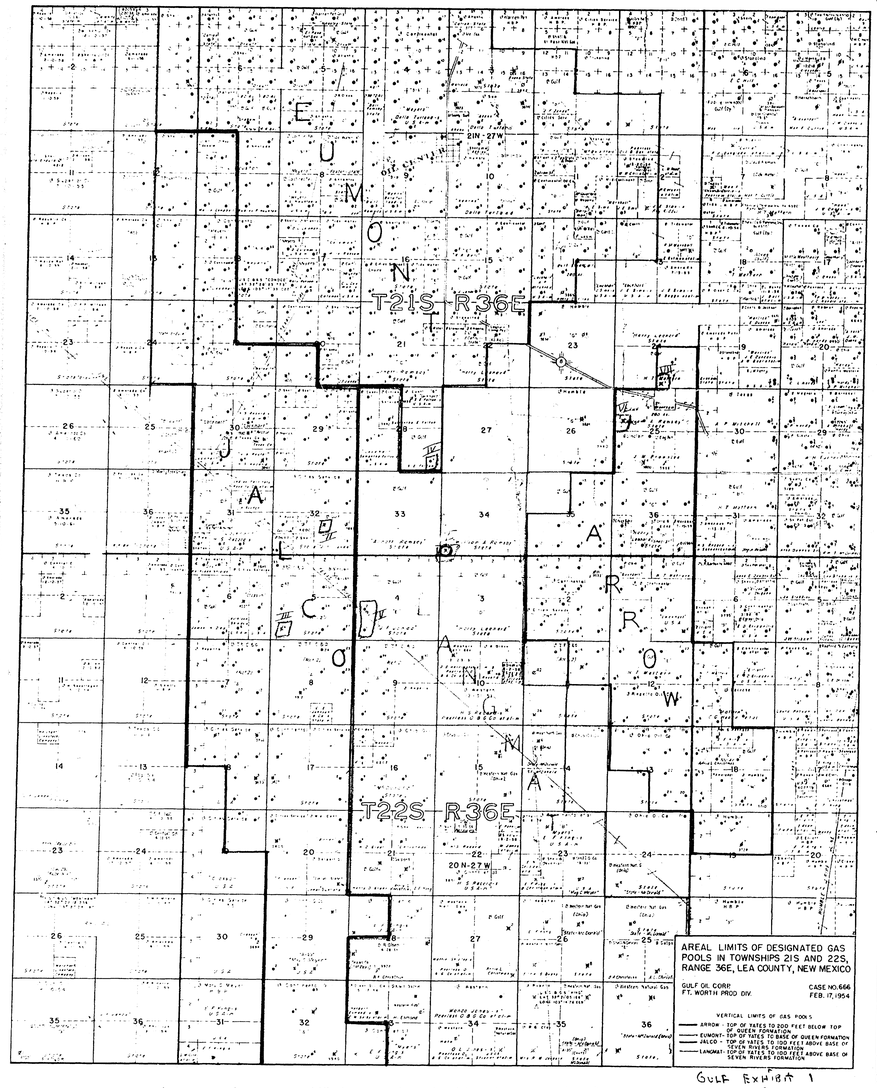
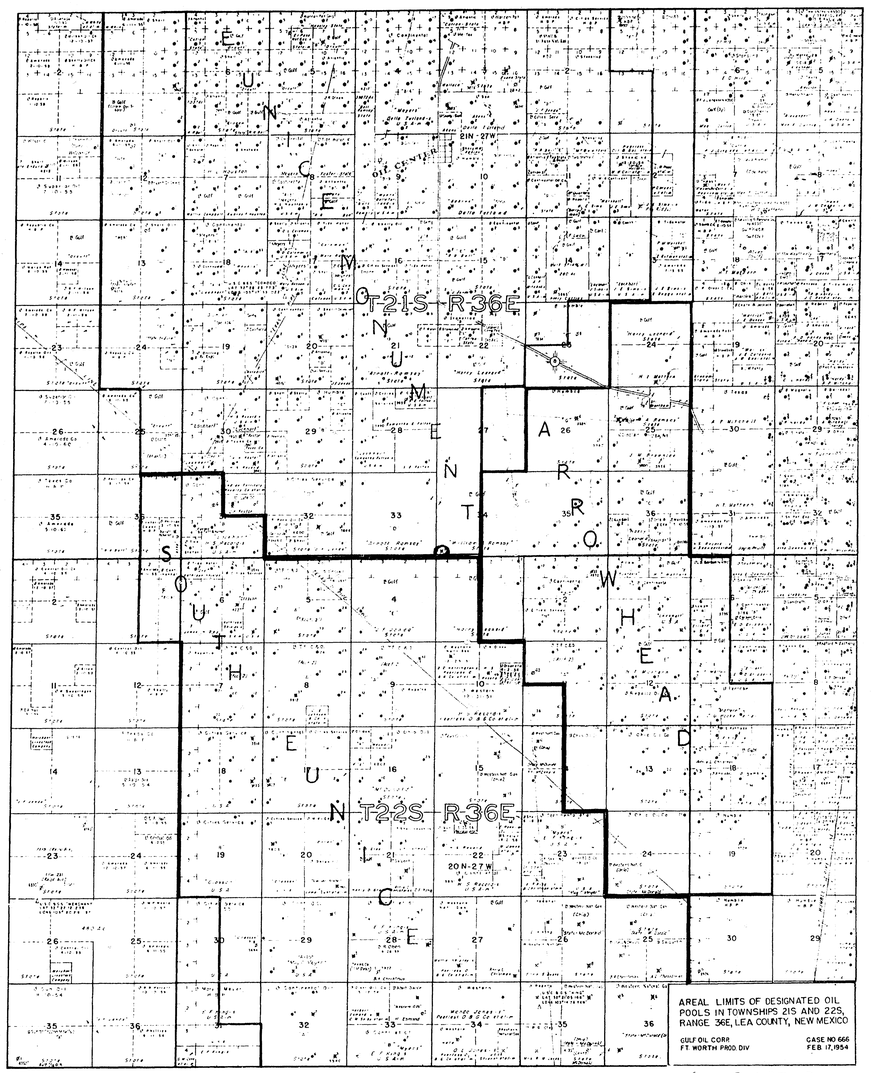
Exhibit "A"





GULF EXHIBIT 1



GULF EXHIBIT 2

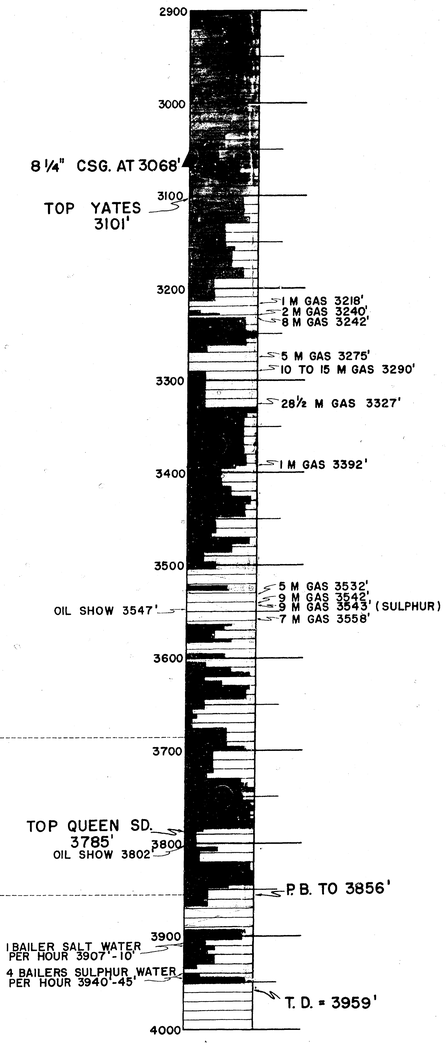
158

GULF OIL CORP. # 1 W. A. RAMSEY

LOCATED SW SW SW SEC. 34-TWP. 21-RNG. 36

CASE # 666

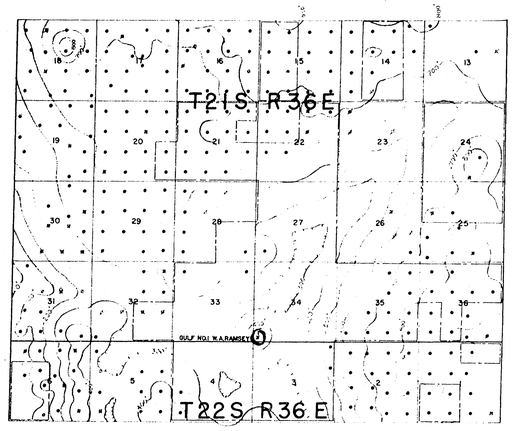
SAMPLE LOG



LEGEND

- ANHYDRITE
- DOLOMITE
- SAND

Case 666
Gulf Exhibit 4

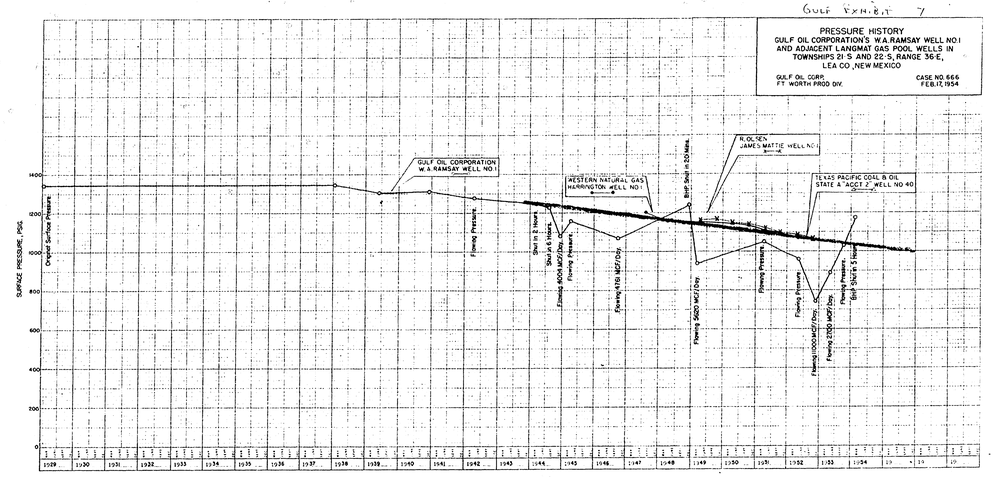


YATE STRUCTURE MAP

ROSWELL, NEW MEXICO

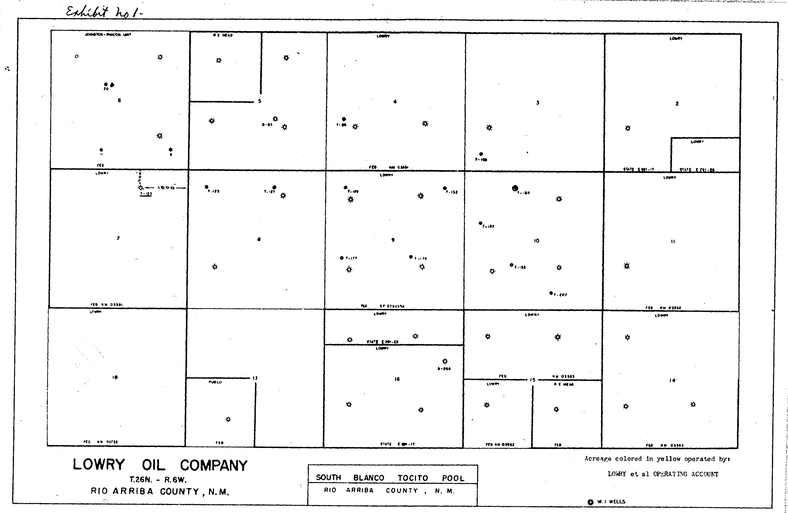
Gulf Exhibit - 5

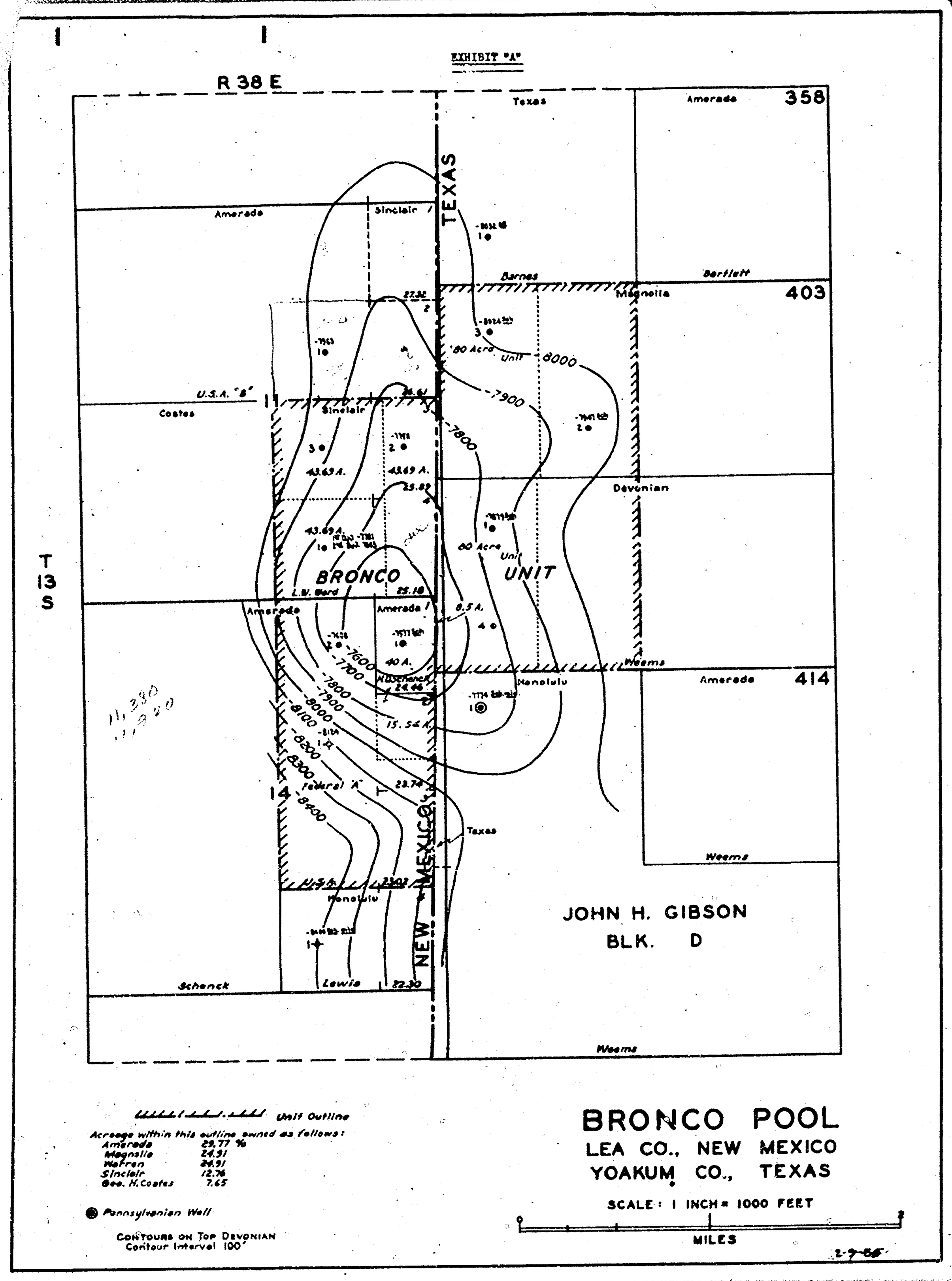
GULF EXHIBIT 7



159

Exhibit No 1-


JICARILLA-PAGOSA UNIT
N.E. HEAD
LOWRY
FED NW 03550
STATE E-291-17
STATE E-291-28
STATE E-291-29
STATE E-291-30
PUEBLO
FED NW 03553
FED NW 03552
FED NW 03551
FED NW 03554
FED NW 03555
FED NW 03556
FED NW 03557
FED NW 03558
FED NW 03559
FED NW 03560
FED NW 03561
FED NW 03562
FED NW 03563
FED NW 03564
FED NW 03565
FED NW 03566
FED NW



OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

C O P Y

April 7, 1954

Mr. Arthur Barbeck
Chief Engineer
Railroad Commission of Texas
Austin, Texas

Dear Art:

Please be advised that the New Mexico Oil Conservation Commission has assigned a top allowable of 227 barrels of oil per well per day to the Bronco-Siluro-Devonian Pool for the month of April, 1954. The limited gas-oil ratio for this pool is two thousand cubic feet per well.

It is the opinion of the staff of the Oil Conservation Commission that this producing rate does not exceed the MER for the Bronco-Siluro-Devonian reservoir. I will advise you immediately of any change in the allowable for this pool.

I regret that I was unable to attend the special Bronco Pool hearing in Austin on April 2 however, I am looking forward to seeing you in Savannah next month.

Kindest regards.

Sincerely,

R. R. Spurrier
Secretary and Director

RRS:vc

WESTERN UNION

CA19 KA617

1954 FEB 26 AM 7 55

K.TUA900 NL PD=WUX TULSA OKLA 25=

OIL CONSERVATION COMMISSION=

STATE OF NEW MEXICO MABRY HALL SANTAFENMEX=

PLEASE BE ADVISED THAT WARREN PETROLEUM CORPORATION SUPPORTS THE POSITION OF AMERADA PETROLEUM CORPORATION WITH REGARD TO THE ADOPTION OF PROPOSED FIELD RULES FOR THE BRONCO SILURO-DEVONIAN FIELD OF LEA COUNTY, NEW MEXICO AND YOAKUM COUNTY, TEXAS; NAMELY, THAT THE PROPOSED FIELD RULES SHOULD BE ADOPTED=

E S CALVERT WARREN PET CORP=

EXHIBIT "B"

PROPOSED FIELD RULES
BRONCO SILURO-DEVONIAN FIELD
YOAKUM COUNTY, TEXAS
LEA COUNTY, NEW MEXICO

RULE 1: The casing program of all wells hereafter drilled in said field shall include at least three strings of pipe set in accordance with the following program:

(a) The surface casing shall consist of new or reconditioned pipe with an original mill test of not less than one thousand (1,000) pounds per square inch, and shall be set and cemented below the top of the red beds; provided, however, that not less than three hundred (300) feet of surface string shall be set. Cement shall be by the pump and plug method, and sufficient cement shall be used to fill the annular space back of the pipe to the surface of the ground or the bottom of the cellar. Cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug. The casing shall be tested by pump pressure of at least five hundred (500) pounds per square inch applied at the well head. If at the end of thirty (30) minutes the pressure shows a drop of one hundred and fifty (150) pounds per square inch, or more, the casing shall be condemned. After the corrective operations, the casing shall again be tested in the same manner.

(b) The intermediate string shall consist of new or reconditioned pipe that has been tested to two thousand (2,000) pounds per square inch, and shall be set no higher than the top of the San Andres formation at an approximate depth of forty-five hundred (4500) feet. Sufficient cement shall be used to fill the calculated annular space back of the pipe to at least as high as the bottom of the surface pipe. Cement shall be by the pump and plug method, and the cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before initiating tests or drilling the plug. The casing shall be tested by pump pressure of at least one thousand (1,000) pounds per square inch applied at the well-head. If at the end of thirty (30) minutes the pressure shows a drop of one hundred and fifty (150) pounds per square inch, or more, the casing shall be condemned. After the corrective operations the casing shall again be tested in the same manner.

- 2 -

(c) The producing or oil string shall be new or reconditioned pipe that has been tested to three thousand (3,000) pounds per square inch, and shall be set no higher than the top of the producing formation. Cement shall be by the pump and plug method, and sufficient cement shall be used to fill the calculated annular space behind the pipe to a point at least thirty-three hundred (3300) feet above the shoe. Cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests. The casing shall be tested by pump pressure of at least fifteen hundred (1500) pounds per square inch applied at the well-head. If at the end of thirty (30) minutes the pressure shows a drop of two hundred (200) pounds per square inch, or more, the casing shall be condemned. After the corrective operations the casing shall again be tested in the same manner.

RULE 2: The acreage assigned the individual oil well for the purpose of allocating allowable oil production thereto shall be known as a proration unit. No proration unit shall contain more than forty (40) acres except as hereinafter provided, and the two points farthermost removed one from the other and contained within any proration unit shall not be in excess of twenty-one hundred (2100) feet apart; provided, however, that in the case of long and narrow leases or in cases where because of the shape of the lease such is necessary to permit the utilization of tolerance acreage the Commission may, after proper showing, grant exceptions to the limitation as to the shape of the proration units as herein contained. All proration units, however, shall consist of acreage which can reasonably be considered to be productive of oil.

If after the drilling of the last well on any lease and the assignment of acreage to each well thereon, in accordance with the regulations of the Commission, there remains an additional unassigned lease acreage of less than forty (40) acres, then and in such event, the remaining unassigned lease acreage up to and including a total of twenty (20) acres may be assigned to the last well drilled on such lease or may be distributed between any group of wells located thereon so long as the proration unit or units resulting from the inclusion of such additional acreage meets the limitations prescribed by the Commission.

- 3 -

Operators shall file certified plats of their properties in the field, which plats shall show all of those things pertinent to the determination of the acreage claimed for each well hereunder.

RULE 3: The daily oil allowable for the field as fixed by the Commission after deductions have been made for marginal wells, high gas-oil ratio wells, and wells incapable of producing their allowable shall be distributed among the remaining producing wells in the field on the following basis:

The daily average allowable for each remaining well shall be that proportion of one hundred (100) per cent of such remaining daily field allowable that the acreage assigned to such well bears to the total acreage assigned to all of such remaining wells in the field.

RULE 4: The permitted gas-oil ratio for all wells shall be two thousand (2,000) cubic feet of gas per barrel of oil produced. Any oil well producing with a gas-oil ratio in excess of two thousand (2,000) cubic feet of gas per barrel of oil shall be allowed to produce daily only that volume of gas obtained by multiplying the daily oil allowable of such well as determined by the applicable rules of the Commission by two thousand (2,000) cubic feet. The gas volume thus obtained shall be known as the daily gas limit of such well. The daily oil allowable therefore shall then be determined and assigned by dividing the daily gas limit by its producing gas-oil ratio.

EXHIBIT "D"

BRONCO SILURO - DEVONIAN FIELD

Lea Co., New Mexico and Yoakum Co., Texas

Oil Production Data

Year	Month	Federal "A"	Federal "B"	Schenck	Ward	Weems	Monthly Total	Cumulative Production	No. of Wells
		LEASES							
1952	Nov.					7,540	7,540	7,540	1
	Dec.					9,234	9,234	16,774	1
	TOTALS					16,774	16,774		
	CUMULATIVE					16,774	16,774		
1953	Jan.					8,746	8,746	25,520	1
	Feb.					8,149	8,149	33,669	1
	Mar.					8,961	8,961	42,630	1
	Apr.			4,158		15,080	19,238	61,868	3
	May			4,778		17,978	22,756	84,624	3
	June			4,616		17,570	22,186	106,810	3
	July			4,774	7,424	26,220	38,418	145,228	5
	Aug.			4,774	7,936	26,970	39,680	184,908	5
	Sept.			4,628	8,853	26,124	39,605	224,513	6
	Oct.			4,659	12,817	27,020	44,496	269,009	6
	Nov.			4,088	11,250	26,100	41,438	310,447	6
	Dec.	706	3,438	4,216	11,625	27,475	47,460	357,907	8
	TOTALS	706	3,438	40,691	59,905	236,393	341,133		
	CUMULATIVE	706	3,438	40,691	59,905	253,167	357,907		
1954	Jan.	7,037	7,037	4,216	11,625	25,504	55,419	413,326	8
	CUMULATIVE	7,743	10,475	44,907	71,530	278,671	413,326		

EXHIBIT "D"

C O P Y

Supl. to EX. C

Feldman - Kendrick #1

Open Hole 11735 - 785 T.D. 11,785 -7983

I. P. Nat. 1150 Bbls. 3/4" Ch. based on 6 hr. test

7" = 11735' GOR 164 Gr. 46°

A. P. C. - Weems #4 TD 11,680' 5½ @ 11,590'

Comp. 3-16-54 Pck. 11,195'

I. P. (Nat.) 412.69 bbls/8 hrs. 3/4" pos. ch. TP 150# GOR 178 Gr. 43.5

24 Hr. rate 1238 bbls.

A. P. C. - Ward #3 New Mexico

T. D. 11,867 Completed 3-8-54

7" @ 11,720 Acidized 1000 gal. (open hole)

I. P. 470.8 bbls./6 hrs. 1/2" choke, 24 hr. rate 1883 bbls.

EXHIBIT "C"

BRONCO SILURO-DEVONIAN FIELD

Lea Co., New Mexico and Yoakum Co., Texas

PERTINENT WELL DATA

	Schenck No. 1	Ward No. 1	Ward No. 2	Fed. A 2
Location	660' F NL & 477.18' F EL S. 14-T13S-R38E Lea Co., New Mex.	660' F SL & 660' F WL S. 11-T13S-R38E Lea Co., New Mex.	1983' F SL & 520' F EL S. 11-T13S-R38E Lea Co., New Mex.	660' F NL & 1274.18' F EL S. 14-T13S-R38E Lea Co., New Mex.
Spudded	11-21-52	4-7-53	7-7-53	10-11-53
Completed	4-4-53	7-3-53	9-24-53	12-29-53
Elev.(DF)	3810'	3809'	3810'	3810'
Top Devonian	11,387'	11,672'	11,568'	11,418'
Oil String	7" at 11,411' 5" liner 12,030'	5½" at 11,725'	5½" at 11,650'	5½" at 11,870'
Perforations	11,420-11,515' 11,535-11,615' 11,700-11,780'	open hole	open hole	11,490-11,572' 11,586-11,650'
Total Depth	12,548' P.B.11,790'	11,890'	11,871'	11,862'
Acidized	11,420-11,780' w/5000 gals.	11,725-11,890' w/1000 gals.	11,650-11,871' w/1000 gals.	6000 gals.
Pot'l. Test	560 bbls. in 24 hrs., 3/4" choke, GOR 205 Gravity 43.5° API	1598 in 24 hrs. 1/2" choke, GOR 125, Gravity 43.9° API	1744 bbls. in 24 hrs., 1/2" choke, GOR 113, Gravity 45° API	413 bbls. in 24 hrs., 3/4" choke GOR 134, Gravity 44.2° API
P.I.	1.94	No test	6.28	No test
Reservoir Pressure at -8000'	6-18-53 4788#* 9-28-53 4767# 2-15-54 4780#	9-28-53 4768# 2-13-54 4783#	10-3-53 4771# 2-15-54 4788#	2-13-53 4753#

	Fed. B 1	Weems 1	Weems 2	Weems 3
Location	1983' F NL & 1538.46' F EL S. 11-T13S-R38E Lea Co., New Mex.	1980' F SL & 660' F WL Sec. 403, Bl. D J.H.Gibson Sur. Yoakum Co., Texas	1980' F NL & 1980' F WL Sec. 403, Bl.D J.H.Gibson Sur. Yoakum Co., Texas	660' F WL & 660' F NL Sec. 403, Bl. D J. H. Gibson Sur. Yoakum Co., Texas
Spudded	10-1-53	7-19-52	1-4-53	4-13-53
Completed	12-17-53	11-5-52	4-9-53	7-3-53
Elev.(DF)	3810'	3813'	3804'	3813'
Top Devonian	11,773'	11,692'	11,751'	11,837'
Oil String	7" at 11,800'	5½" at 11,860'	7" at 11,769'	5½" at 11,890'
Perforations	open hole	11,850-11,860' 11,773-11,850'	open hole	11,837-880 11,890-11,921 open hole
Total Depth	11,875'	11,860'	11,912 P.B.D.	11,921
Acidized	1000 gals.	*	500 gals.	2000 gals.
Pot'l. Test	1116 bbls. in 24 hrs., 1/2" ch. Gr. 43.9° API	1934.5 bbls. in 24 hrs., 3/4" choke, GOR 178 Gr. 43.4° API	2364 bbls. in 24 hrs., 1/2" choke, GOR 95, Gr. 43.4°	962 bbls. in 24 hrs. 1/2" choke, GOR 179 Gravity 43.8° API
P.I.	No test	42.37	No test	1.55
Reservoir Pressure at -8000'	2-11-53 4786#	11-24-52 4789#* 12-15-52 4789# 9-28-53 4771# 2-17-54 4765#	9-28-53 4771# 2-17-54 4768#	7-15-53 4789# 9-28-53 4768#

* Initial reservoir pressure of the reservoir

EXHIBIT "C"

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ROTARY ENGINEERS LABORATORIES
CORE ANALYSIS TABULAR DATA

COMPANY [illegible] WELL [illegible] FIELD [illegible]
COUNTY [illegible] STATE [illegible] DATE [illegible]
FORMATION [illegible] TYPE ANALYSIS [illegible]
REMARKS [illegible]

Sample Number	Depth	Effective Porosity %	Permeability	Remarks
1	[illegible]	[illegible]	[illegible]	[illegible]
2	[illegible]	[illegible]	[illegible]	
3	[illegible]	[illegible]	[illegible]	[illegible]
4	[illegible]	[illegible]	[illegible]	
5	[illegible]	[illegible]	[illegible]	
6	[illegible]	[illegible]	[illegible]	
7	[illegible]	[illegible]	[illegible]	
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13	[illegible]	[illegible]	[illegible]	
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16	-71	[illegible]	[illegible]	
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19	[illegible]	[illegible]	[illegible]	
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24	[illegible]	[illegible]	[illegible]	
25	[illegible]	[illegible]	[illegible]	
26	[illegible]	[illegible]	[illegible]	
27	[illegible]	[illegible]	[illegible]	
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36	[illegible]	[illegible]	[illegible]	[illegible]
37	[illegible]	[illegible]	[illegible]	
38	[illegible]	[illegible]	[illegible]	
39	[illegible]	[illegible]	[illegible]	
40	[illegible]	[illegible]	[illegible]	
41	[illegible]	[illegible]	[illegible]	
42	[illegible]	[illegible]	[illegible]	
43	[illegible]	[illegible]	[illegible]	
44	[illegible]	[illegible]	[illegible]	
45	[illegible]	[illegible]	[illegible]	
46	[illegible]	[illegible]	[illegible]	
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EXHIBIT "E"

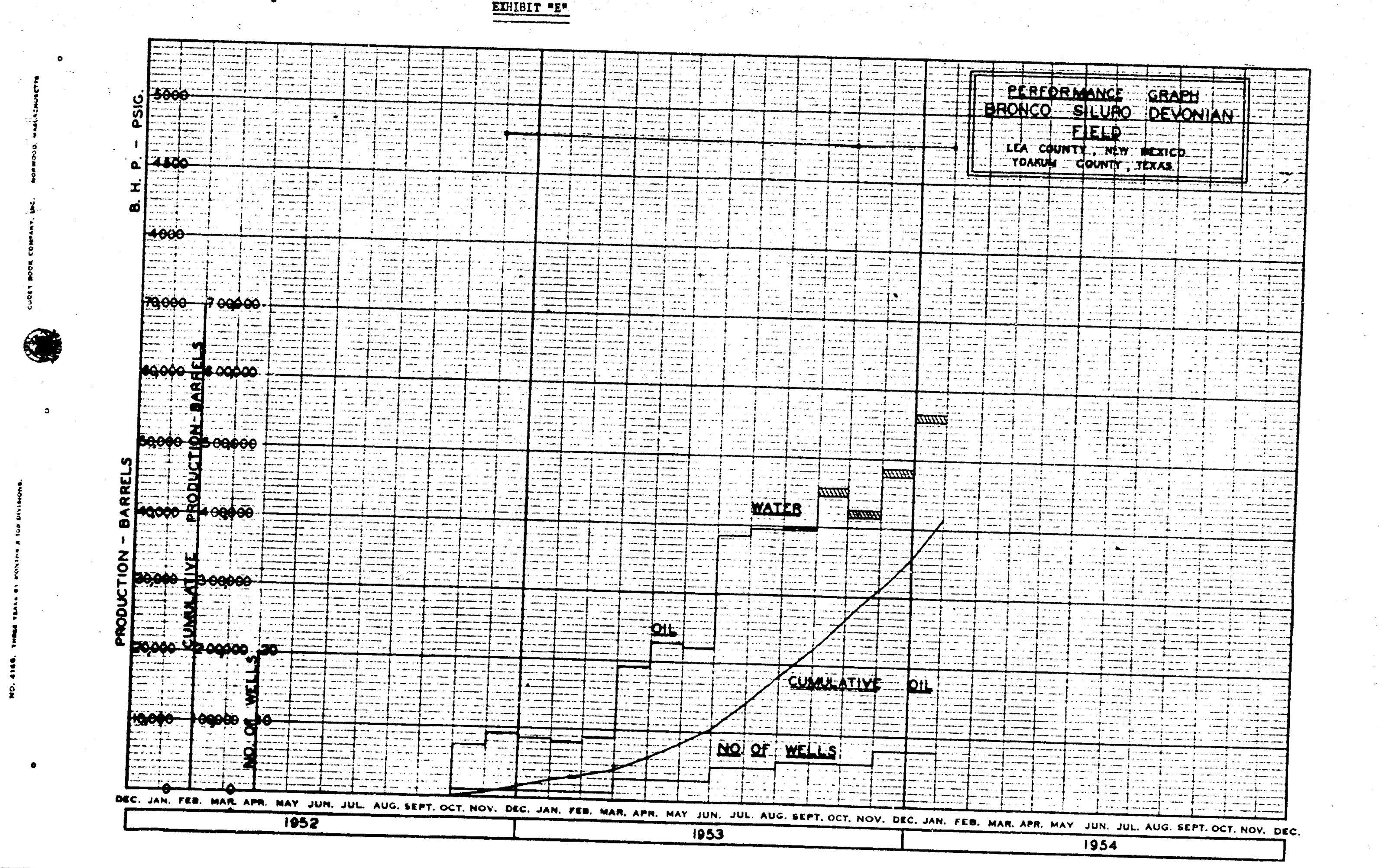
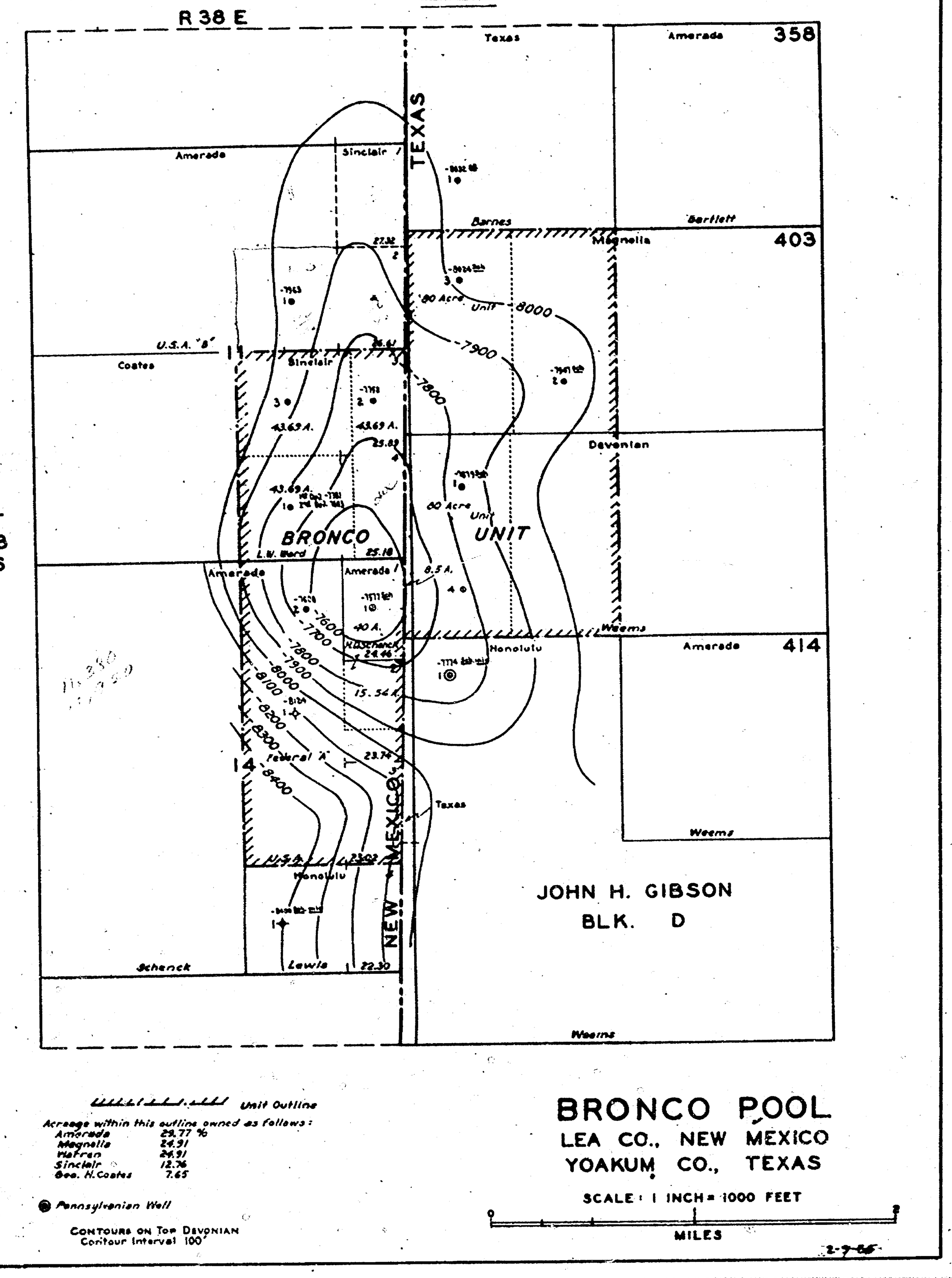


EXHIBIT "A"



OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

April 7, 1954

C O P Y

Mr. Arthur Barbeck
Chief Engineer
Railroad Commission of Texas
Austin, Texas

Dear Art:

Please be advised that the New Mexico Oil Conservation Commission has assigned a top allowable of 227 barrels of oil per well per day to the Bronco-Siluro-Devonian Pool for the month of April, 1954. The limited gas-oil ratio for this pool is two thousand cubic feet per well.

It is the opinion of the staff of the Oil Conservation Commission that this producing rate does not exceed the MER for the Bronco-Siluro-Devonian reservoir. I will advise you immediately of any change in the allowable for this pool.

I regret that I was unable to attend the special Bronco Pool hearing in Austin on April 2 however, I am looking forward to seeing you in Savannah next month.

Kindest regards.

Sincerely,

R. R. Spurrier
Secretary and Director

RRS:vc

WESTERN UNION

CA19 KA617

KxTBA900 NL PD=WUX TULSA OKLA 25=

OIL CONSERVATION COMMISSION=

STATE OF NEW MEXICO MABRY HALL SANTAFENMEX=

PLEASE BE ADVISED THAT WARREN PETROLEUM CORPORATION SUPPORTS THE POSITION OF AMERADA PETROLEUM CORPORATION WITH REGARD TO THE ADOPTION OF PROPOSED FIELD RULES FOR THE BRONCO SILURO-DEVONIAN FIELD OF LEA COUNTY NEW MEXICO AND YOAKUM COUNTY TEXAS; NAMELY THAT THE PROPOSED FIELD RULES SHOULD BE ADOPTED=

E S CALVERT WARREN PET CORP=

EXHIBIT "B"

PROPOSED FIELD RULES
BRONCO SILURO-DEVONIAN FIELD
YOAKUM COUNTY, TEXAS
LEA COUNTY, NEW MEXICO

RULE 1: The casing program of all wells hereafter drilled in said field shall include at least three strings of pipe set in accordance with the following program:

(a) The surface casing shall consist of new or reconditioned pipe with an original mill test of not less than one thousand (1,000) pounds per square inch, and shall be set and cemented below the top of the red beds; provided, however, that not less than three hundred (300) feet of surface string shall be set. Cement shall be by the pump and plug method, and sufficient cement shall be used to fill the annular space back of the pipe to the surface of the ground or the bottom of the cellar. Cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug. The casing shall be tested by pump pressure of at least five hundred (500) pounds per square inch applied at the well head. If at the end of thirty (30) minutes the pressure shows a drop of one hundred and fifty (150) pounds per square inch, or more, the casing shall be condemned. After the corrective operations, the casing shall again be tested in the same manner.

(b) The intermediate string shall consist of new or reconditioned pipe that has been tested to two thousand (2,000) pounds per square inch, and shall be set no higher than the top of the San Andres formation at an approximate depth of forty-five hundred (4500) feet. Sufficient cement shall be used to fill the calculated annular space back of the pipe to at least as high as the bottom of the surface pipe. Cement shall be by the pump and plug method, and the cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before initiating tests or drilling the plug. The casing shall be tested by pump pressure of at least one thousand (1,000) pounds per square inch applied at the well-head. If at the end of thirty (30) minutes the pressure shows a drop of one hundred and fifty (150) pounds per square inch, or more, the casing shall be condemned. After the corrective operations the casing shall again be tested in the same manner.

- 2 -

(c) The producing or oil string shall be new or reconditioned pipe that has been tested to three thousand (3,000) pounds per square inch, and shall be set no higher than the top of the producing formation. Cement shall be by the pump and plug method, and sufficient cement shall be used to fill the calculated annular space behind the pipe to a point at least thirty-three hundred (3300) feet above the shoe. Cement shall be allowed to stand a minimum of twelve (12) hours under pressure and a total of twenty-four (24) hours before drilling the plug or initiating tests. The casing shall be tested by pump pressure of at least fifteen hundred (1500) pounds per square inch applied at the well-head. If at the end of thirty (30) minutes the pressure shows a drop of two hundred (200) pounds per square inch, or more, the casing shall be condemned. After the corrective operations the casing shall again be tested in the same manner.

RULE 2: The acreage assigned the individual oil well for the purpose of allocating allowable oil production thereto shall be known as a proration unit. No proration unit shall contain more than forty (40) acres except as hereinafter provided, and the two points farthermost removed one from the other and contained within any proration unit shall not be in excess of twenty-one hundred (2100) feet apart; provided, however, that in the case of long and narrow leases or in cases where because of the shape of the lease such is necessary to permit the utilization of tolerance acreage the Commission may, after proper showing, grant exceptions to the limitation as to the shape of the proration units as herein contained. All proration units, however, shall consist of acreage which can reasonably be considered to be productive of oil.

If after the drilling of the last well on any lease and the assignment of acreage to each well thereon, in accordance with the regulations of the Commission, there remains an additional unassigned lease acreage of less than forty (40) acres, then and in such event, the remaining unassigned lease acreage up to and including a total of twenty (20) acres may be assigned to the last well drilled on such lease or may be distributed between any group of wells located thereon so long as the proration unit or units resulting from the inclusion of such additional acreage meets the limitations prescribed by the Commission.

- 3 -

Operators shall file certified plats of their properties in the field, which plats shall show all of those things pertinent to the determination of the acreage claimed for each well hereunder.

RULE 3: The daily oil allowable for the field as fixed by the Commission after deductions have been made for marginal wells, high gas-oil ratio wells, and wells incapable of producing their allowable shall be distributed among the remaining producing wells in the field on the following basis:

The daily average allowable for each remaining well shall be that proportion of one hundred (100) per cent of such remaining daily field allowable that the acreage assigned to such well bears to the total acreage assigned to all of such remaining wells in the field.

RULE 4: The permitted gas-oil ratio for all wells shall be two thousand (2,000) cubic feet of gas per barrel of oil produced. Any oil well producing with a gas-oil ratio in excess of two thousand (2,000) cubic feet of gas per barrel of oil shall be allowed to produce daily only that volume of gas obtained by multiplying the daily oil allowable of such well as determined by the applicable rules of the Commission by two thousand (2,000) cubic feet. The gas volume thus obtained shall be known as the daily gas limit of such well. The daily oil allowable therefore shall then be determined and assigned by dividing the daily gas limit by its producing gas-oil ratio.

EXHIBIT "D"

BRONCO SILURO - DEVONIAN FIELD

Lea Co., New Mexico and Yoakum Co., Texas

Oil Production Data

Year	Month	LEASES Federal "A"	Federal "D"	Schenck	Ward	Weems	Monthly Total	Cumulative Production	No. of Wells
1952	Nov.					7,540	7,540	7,540	1
	Dec.					9,234	9,234	16,774	1
	TOTALS					16,774	16,774		
	CUMULATIVE					16,774	16,774		
1953	Jan.					8,746	8,746	25,520	1
	Feb.					8,149	8,149	33,669	1
	Mar.					8,961	8,961	42,630	1
	Apr.			4,158		15,080	19,238	61,868	3
	May			4,778		17,978	22,756	84,624	3
	June			4,616		17,570	22,186	106,810	3
	July			4,776	7,426	26,220	38,418	145,228	5
	Aug.			4,774	7,936	26,970	39,680	184,908	5
	Sept.			4,628	8,853	26,124	39,605	224,513	6
	Oct.			4,659	12,817	27,020	44,496	269,009	6
	Nov.			4,088	11,250	26,100	41,438	310,447	6
	Dec.	706	3,438	4,216	11,625	27,475	47,460	357,907	8
	TOTALS	706	3,438	40,691	59,905	236,393	341,133		
	CUMULATIVE	706	3,438	40,691	59,905	253,167	357,907		
1954	Jan.	7,037	7,037	4,216	11,625	25,904	55,419	413,326	8
	CUMULATIVE	7,743	10,475	44,907	71,530	278,671	413,326		

EXHIBIT "D"

C O P Y

Supl. to Ex. C

Paldmont - Kendrick #1
Open Hole 11735 - 785 T.D. 11,785 -7983
I. P. Nat. 1150 Bbls. 3/4" Ch. based on 6 hr. test
7" @ 11735' GOR 164 Gr. 46°

A. P. C. - Weems #3 TD 11,680' 5½ @ 11,590'
Comp. 3-16-54 Pok. 11,195'
I. P. (Est.) 412.69 bbls/8 hrs. 3/4" pos. ch. TP 150# GOR 178 Gr. 43.5
24 Hr. rate 1238 bbls.

A. P. C. - Ward #3 New Mexico
T. D. 11,867 Completed 3-8-54
7" @ 11,720 Acidized 1000 gal. (open hole)
I. P. 470.8 bbls./6 hrs. 1/2" choke, 24 hr. rate 1883 bbls.

EXHIBIT "C"

BRONCO SILURO-DEVONIAN FIELD
Lea Co., New Mexico and Yoakum Co., Texas

PERTINENT WELL DATA

	Schenck No. 1	Ward No. 1	Ward No. 2	Fed. A 2	Fed. B 1	Weems 1	Weems 2	Weems 3
Location	660' F NL & 477.18' F EL S. 14-T13S-R38E Lea Co., New Mex.	660' F SL & 660' F WL S. 11-T13S-R38E Lea Co., New Mex.	1983' F SL & 520' F EL S. 11-T13S-R38E Lea Co., New Mex.	660' F NL & 1274.18' F EL S. 14-T13S-R38E Lea Co., New Mex.	1983' F NL & 1538.46' F EL S. 11-T13S-R38E Lea Co., New Mex.	1980' F SL & 660' F WL Sec. 403, Bl. D J.H. Gibson Sur. Yoakum Co., Texas	1980' F NL & 1980' F WL Sec. 403, Bl. D J.H. Gibson Sur. Yoakum Co., Texas	660' F WL & 660' F NL Sec. 403, Bl. D J. H. Gibson Sur. Yoakum Co., Texas
Spudded	11-21-52	4-7-53	7-7-53	10-11-53	10-1-53	7-19-52	1-4-53	4-13-53
Completed	4-4-53	7-3-53	9-24-53	12-29-53	12-17-53	11-5-52	4-9-53	7-3-53
Elev. (DF)	3810'	3809'	3810'	3810'	3810'	3813'	3804'	3813'
Top Devonian	11,387'	11,672'	11,568'	11,418'	11,773'	11,692'	11,751'	11,837'
Oil String	7" at 11,411' 5" liner 12,030'	5½" at 11,725'	5½" at 11,650'	5½" at 11,870'	7" at 11,800'	5½" at 11,860'	7" at 11,769'	5½" at 11,890'
Perforations	11,420-11,515' 11,535-11,615' 11,700-11,780'	open hole	open hole	11,490-11,572' 11,586-11,650'	open hole	11,850-11,860' 11,773-11,850'	open hole	11,837-880 11,890-11,921 open hole
Total Depth	12,548' P.B. 11,780'	11,890'	11,871'	11,862'	11,875'	11,860'	11,912 P.B.D.	11,921
Acidized	11,420-11,780' w/5000 gals.	11,725-11,890' w/1000 gals.	11,650-11,871' w/1000 gals.	6000 gals.	1000 gals.	*	500 gals.	2000 gals.
Pot'l. Test	560 bbls. in 24 hrs., 3/4" choke, GOR 205 Gravity 43.5° API	1598 in 24 hrs. 1/2" choke, GOR 125, Gravity 43.9° API	1744 bbls. in 24 hrs., 1/2" choke, GOR 113, Gravity 45° API	413 bbls. in 24 hrs., 3/4" choke GOR 134, Gravity 44.2° API	1116 bbls. in 24 hrs., 1/2" ch. Gr. 43.9° API	1934.5 bbls. in 24 hrs., 3/4" choke, GOR 178 Gr. 43.4° API	2364 bbls. in 24 hrs., 1/2" choke, GOR 95. Gr. 43.4°	962 bbls. in 24 hrs. 1/2" choke, GOR 179 Gravity 43.8° API
P.I.	1.94	No test	6.28	No test	No test	42.37	No test	1.55
Reservoir Pressure at -8000'	6-18-53 4788# 9-28-53 4767# 2-15-54 4780#	9-28-53 4768# 2-13-54 4783#	10-3-53 4771# 2-15-54 4788#	2-13-53 4753#	2-11-53 4786#	11-24-52 4789#* 12-15-52 4789# 9-28-53 4771# 2-17-54 4765#	9-28-53 4771# 2-17-54 4768#	7-15-53 4789# 9-28-53 4768#

* Initial reservoir pressure of the reservoir

EXHIBIT "C"

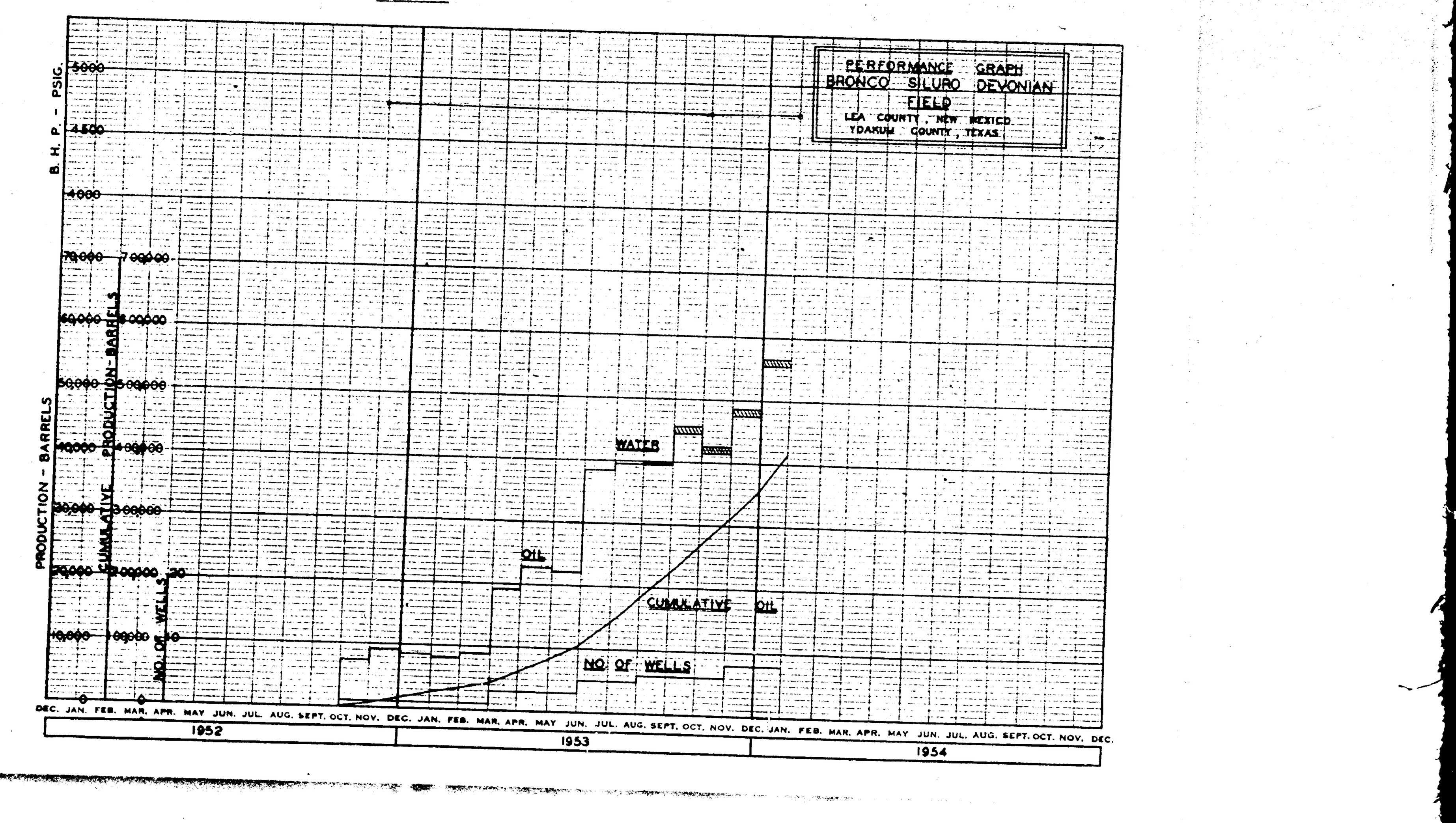
162

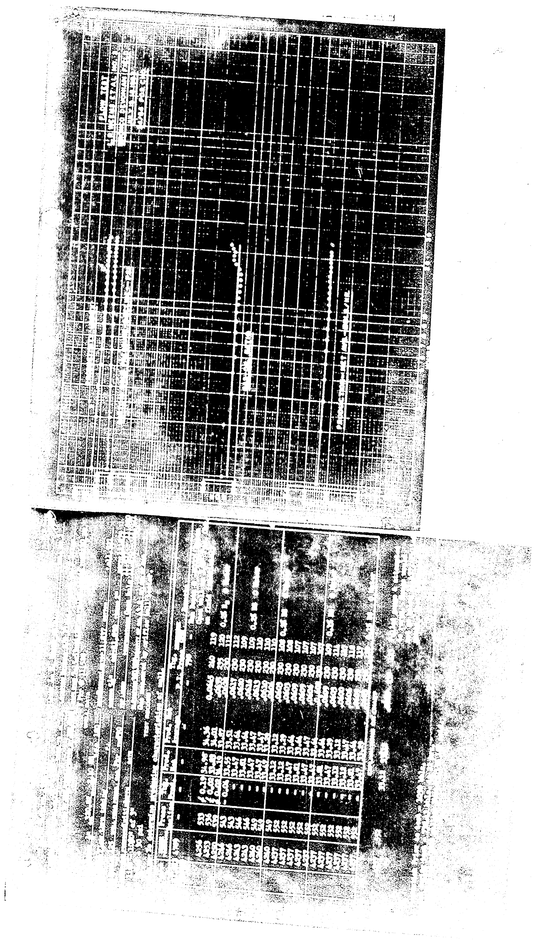
ROTARY ENGINEERS LABORATORIES
CORE ANALYSIS TABULAR DATA

COMPANY Amerada Pet. Corp. WELL [illegible] FIELD [illegible]
COUNTY Yoakum STATE Texas DATE [illegible]
FORMATION Devonian TYPE ANALYSIS Special
REMARKS porosity & permeability only

Sample Number	Depth	Plug Perm. M. D.	Plug Porosity %	Effective Porosity %	Permeability of Effective Porosity M. D.	Total Water Saturation % P. V.	Residual Oil Saturation % P. V.	Probable Production	Remarks
[illegible]	[illegible]			[illegible]	[illegible]				[illegible]

EXHIBIT "E"





AMERADA BOTTOM-HOLE PRESSURE-~~TEMPERATURE~~ REPORT EXHIBIT "F"

R.P.G. 3 NO. 4703 CLOCK NO. 1931 155 SPEED 24 HR. 12 LEASE H. D. Schenck WELL NO. 1

ELEMENT NO. 10655N RANGE 0-6000 CORR. TO — °F. LOCATION Bronco S/D Field, Lea County, N.M.

RUN BY JRE/CRH CALCULATED BY JRE REPORTED BY JRE DATE RUN 6-18-53 TIME 10:00am PULLED 6-19-53 TIME 4:00 pm

WELL DATA Pkr @ 11,527 Sweet B-Stage tool @ 11,521

POTENTIAL: CHOKE 3/4 OIL 559.89 WATER 12.63 G.O.R. 205 ZONE Siluro-Devonian TOP 11,338 BOTTOM 11,780 T.D. 12,548

HOW PRODUCED Natural flow through tbg. P.I. CASING 7" DEPTH 11,411 TUBING 2" DEPTH 11,726

HOURS SHUT IN 61 WELL HEAD PRESS.: CAS. 695 TUB 810 TOP LINER 11,335 PERFORATIONS 11,430 - 11,515; 11,535 - 11,615; 11,700 - 11,780

LAST RESERVOIR PRESSURE 4629 DEPTH 11,810 DATE 4-27-53 ELEVATION 3810DF GRAVITY OF OIL SP. GR. OF GAS

Flow Line - 375' of 3" -5300 Estimated Shrinkage - 12%

Trap Press- 28 psi

TEST RECORD Gas measured by orifice well tester.

PURPOSE OF TEST: TO DETERMINE FLOWING CHARACTERISTICS OF WELL

TIME	DEPTH	PRESSURE	Press Decline	Csg.Tbg Prod.	Prod. Net	Prod.Net Avg.	P.I.	Pressure Tbg.	Csg.	GFR	Remarks
9:30A	10,960	4501									
10:00A	11,460	4670									
	11,810	4788									Run depth Calculated BHP @ -8000' datum.
10:00A	11,460	4670	-	-	-	-	-	810	695	-	Open well on 3/8" positive choke. On fluid immediately
11:00		4186	484	-0.90	42.19	39.15	0.0809	300	225	137	0.7% BS&Mud 0.2% Water
12:00N		4147	523	-1.09	36.11	36.04	.0689	280	195	148	
1:00P		4135	535	-0.08	35.96	35.96	.0672	265	180	145	0.7% BS&Mud 0.2% Water
2:00		4123	547	-0.25	35.97	34.02	.0622	260	170	143	
3:00		4114	556	-0.36	32.07	32.80	.0586	255	165	152	
4:00		4108	562	-	33.12	32.60	.0580	250	160	153	0.6% BS&Mud 0 Water
5:00		4102	568		32.06	31.90	.0562	250	155	158	
6:00		4096	574		31.74	31.57	.0550	240	~~150~~ 150	~~155~~ 155	
7:00		-	-		31.39	31.57	-	230	150	152	Pull & Rerun Gauge
8:00		4084	586		31.74	31.23	.0533	230	145	148	0.6% BS&Mud 0.2% Water
9:00		4084	586		30.71	30.88	.0527	220	145	151	
10:00		4078	592		31.05	30.71	.0519	220	145	147	
11:00		4072	598		30.36	30.19	.0505	220	140	150	0.7% BS&Mud 0.1% Water
12:00M		4069	601		30.02	30.02	.0500	220	135	150	
1:00A		4069	601		30.02	30.54	.0508	220	135	150	
2:00		4069	601		31.05	30.71	.0511	220	135	145	
3:00		4063	607		30.36	30.36	.0500	220	130	148	0.5% BS&Mud 0 Water
4:00		4063	607		30.36	30.36	.0500	220	130	145	
5:00		4060	610		30.36	30.19	.0495	220	130	145	
6:00		4057	613		30.02	29.67	.0484	220	130	147	
7:00		4057	613		29.33	29.16	.0476	220	125	151	0.6% BS&Mud 0.2% Water
8:00		4057	613		28.98	29.02	.0473	220	125	152	
9:00		4057	613		30.36	30.19	.0492	220	120	148	
10:00		4057	613		30.02	29.67	.0484	220	120	152	
11:00		4057	613		29.33	29.67	.0484	220	120	159	0.6% BS&Mud 0 Water
12:00N		4057	613		30.02	29.67	.0484	220	120	155	
1:00P		4057	613		29.33	29.16	.0476	220	120	161	
2:00		4057	613		28.98	29.40	.0480	220	120	162	0.6% BS&Mud 0 Water
3:00		4057	613		30.02	29.67	.0484	220	120	157	
4:00		4057	613		29.33	29.33	.0478	220	120	159	0.6% BS&Mud 0.1% Water

EXPLANATIONS OR CHART

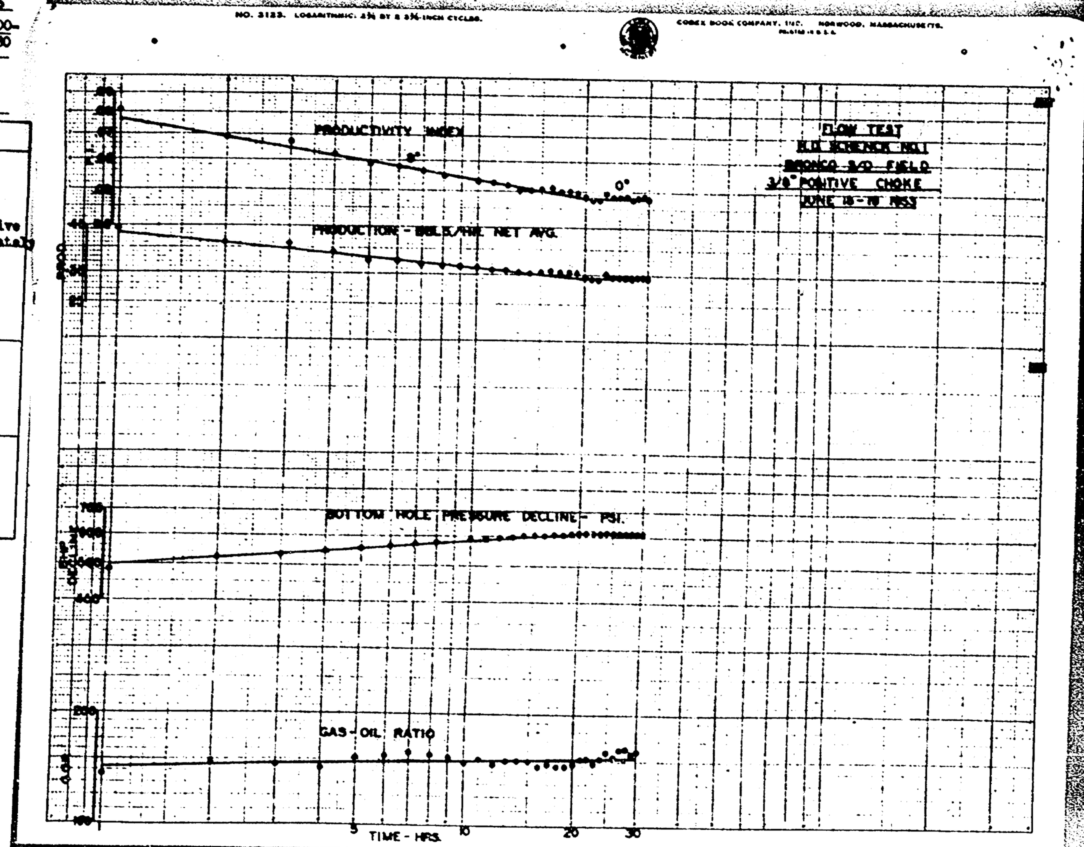
Productivity Index calculated on total fluid basis. Pull Gauge - Test Concluded

Water percentages determined by shake outs

Acidized from: 11,700 - 780 w/1000 gal., 1000 gal., 2000 gal. DoloFrac, 2000 gal. Total of 6000 gal. 11,535 - 615 w/1000 gal.

Total Production on test - 944.78 bbls. fluid in 30 hrs. Ave. 0.6% BS&Mud 0.1% Water

MAKE FURTHER EXPLANATIONS ON BACK OF SHEET



AMERADA BOTTOM-HOLE PRESSURE-TEMPERATURE REPORT

R.P.G. 3 NO. 4703 CLOCK NO. 155 SPEED 12 HR. LEASE L.R. Weems et al WELL NO. 1

ELEMENT NO. 10655-N RANGE 0-6000 CORR. TO °F. LOCATION Yoakum County, Texas

RUN BY AFG/CMM CALCULATED BY AFG/CMM REPORTED BY AFG/CMM DATE RUN 12-15-52 TIME 12:15P PULLED 12-17-52 TIME 12:15P

WELL DATA

POTENTIAL: CHOKE 3/4" P OIL 967 WATER 0 G.O.R. 178 ZONE Devonian TOP 11,682 (-7879) BOTTOM T.D. 11,860

HOW PRODUCED Natural Flow Thru Tbg. P.I. CASING 5-1/2" DEPTH 11,860 TUBING 2-3/8 DEPTH 11,841

HOURS SHUT IN 76-1/4 WELL HEAD PRESS.: CAS. Pkr. TUB 690 TOP LINER PERFORATIONS

LAST RESERVOIR PRESSURE 4789 DEPTH 11,813 (-8000) DATE 11-20-52 ELEVATION 3813DF GRAVITY OF OIL 43.4 SP. GR. OF GAS

Trap Pressure 55 & 40 Pkr. @ 11,546 Flow Line 2" - 632'

Shrinkage Factor 12% TEST RECORD Gas Measured by 1/2" x 2" OWT; 3/4" x 2" OWT

PURPOSE OF TEST: To Determine flowing Characteristic of Well.

Hours	DEPTH	PRESSURE	Press. Decline	Tbg. Prod.	Prod. Gross	Gross Prod. Net Avg.	PI	Tbg. Press.	GFR	%Mud	Remarks
0	11,813 (-8000)	4789						690			
1		4747	42	-1.39	73.88	74.15	1.7655	510	77	0.7	Opened Well on 24/64" P. Choke
2		4744	45	-0.11	74.41	74.59	1.6576	518	79	0.7	Fluid Immediately
3		4741	48	-0.10	74.77	74.65	1.5552	525	79	0.7	Pulled & re-ran gauge.
4		4741	48	0.0	74.52	74.52	1.5525	525	80	0.7	
5		4738	51		74.58	73.49	1.4410	525	80	5.0	
6		4738	51		72.45	72.45	1.4206	525	80	5.0	
7		4735	54		72.45	72.45	1.3417	533	80	5.0	
8		4735	54		72.45	72.80	1.3482	533	80	4.8	
9		4735	54		73.14	73.14	1.3544	533	80	4.0	
10		4732	57		73.14	72.97	1.2802	533	80	5.0	
11		4732	57		72.80	72.97	1.2802	533	80	3.7	
12		4732	57		73.14	72.97	1.2802	533	79	3.6	
13		4732	57		72.80	73.66	1.2923	533	80	3.6	
14		4732	57		74.52	73.49	1.2893	533	78	3.7	
15		4732	57		72.45	73.66	1.2923	533	80	3.8	
16		4732	57		74.87	73.63	1.2918	533	78	3.7	
17		4732	57		72.39	72.39	1.2700	533	80	3.8	
18		4732	57		72.39	72.77	1.2767	533	80	3.5	
19		4729	60		73.14	73.83	1.2305	533	79	3.2	

EXPLANATIONS OR CHART

MAKE FURTHER EXPLANATIONS ON BACK OF SHEET

AMERADA BOTTOM-HOLE PRESSURE-TEMPERATURE REPORT Sheet #2

LEASE L. R. Weems et al WELL NO. 1

Hours	DEPTH	PRESSURE	Press. Decline	Tbg. Prod.	Prod. Gross	Gross Prod. Net Avg.	PI	Tbg. Press	GFR	%Mud	Remarks
20		4729	60		74.52	74.18	1.2363	533	79	3.0	
21		4729	60		73.83	73.83	1.2305	533	80	3.1	
22		4729	60		73.83	73.32	1.2220	540	80	3.4	
23		4729	60		72.80	72.97	1.2162	540	82	1.9	
24		4726	63		73.14	73.66	1.1692	540	82	1.6	
25		4726	63		74.18	73.49	1.1665	540	97	1.7	
26		4726	63		72.80	73.49	1.1665	540	101	1.9	Pulled and re-ran Gauge
27		4726	63		74.18	73.49	1.1665	533	99	1.4	
28		4726	63		72.80	73.49	1.1665	518	101	1.0	
29		4726	63		74.18	74.01	1.1748	518	99	1.3	
30		4723	66		73.83	73.83	1.1186	518	98	1.2	
32		4720	69		148.35	74.18	1.0751	518	97	1.2	
34		4720	69		148.35	74.18	1.0751	518	97	1.0	
36		4720	69		146.97	73.49	1.0651	518	96	0.8	
38		4720	69		145.59	72.80	1.0551	518	96	0.7	
40		4720	69		145.59	72.80	1.0551	518	97	1.2	
42		4720	69		147.32	73.66	1.0675	518	97	0.9	
44		4717	72		147.32	73.66	1.0231	518	97	0.4	
46		4714	75		148.35	74.18	0.9891	525	97	0.6	
48		4711	78		147.97	73.99	0.9486	525	99	0.6	Shut-in Well Test Concluded
48:30		4753									30-Min Buildup
49:00		4759									1 Hr. Buildup

EXPLANATIONS OR CHART

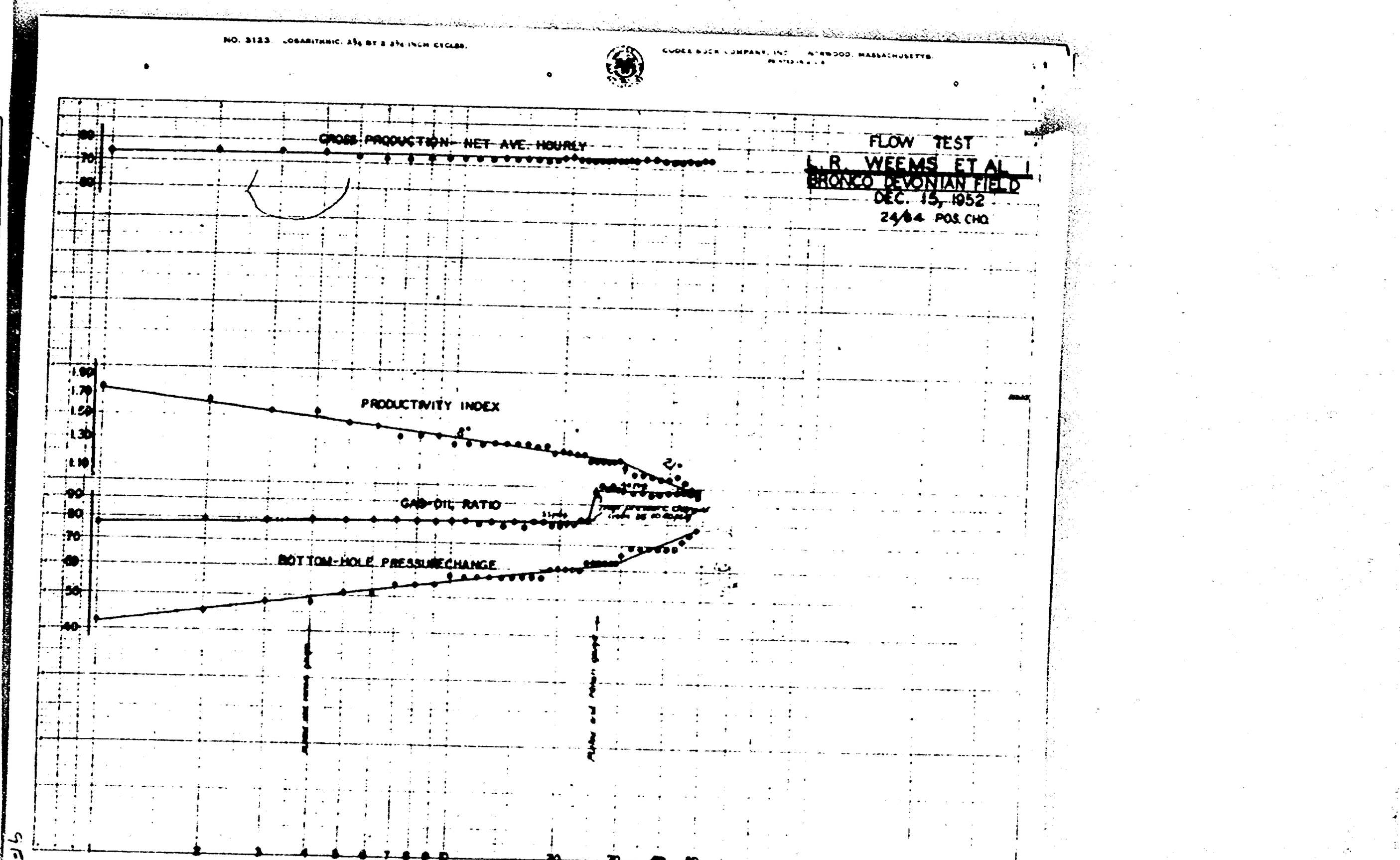
Tankage: 4 - High 500 bbl, Cone bottom, Strapping 2.76 bbls. per inch.

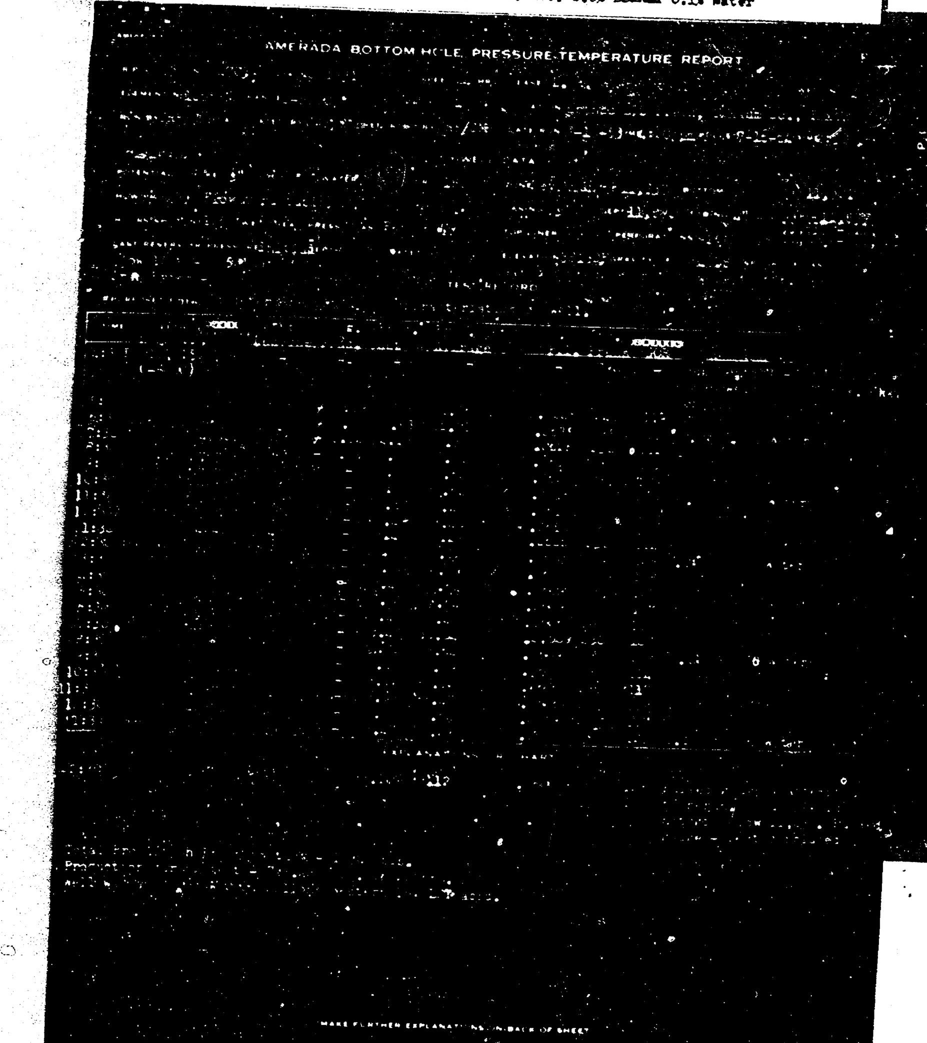
Total gross fluid produced on test 3530.80 bbls.

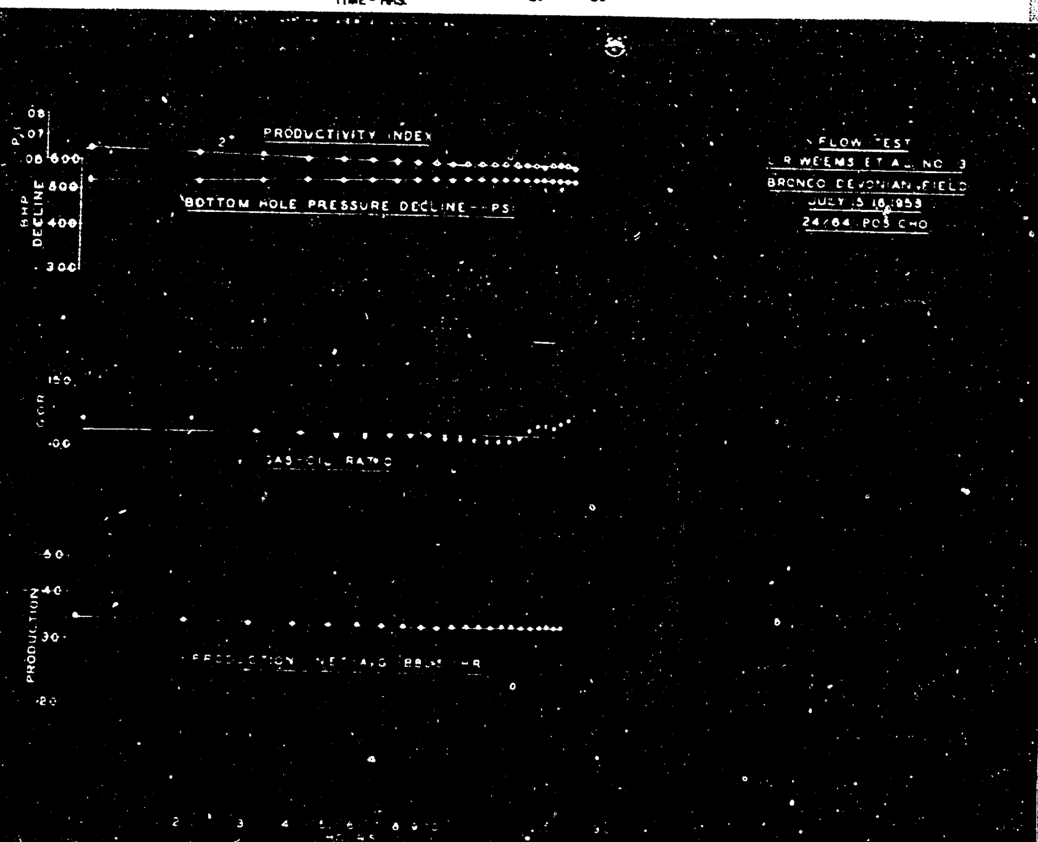
Total gas produced on test 313,039 Cu. Ft.

Productivity index based on gross production (Oil and Mud).

MAKE FURTHER EXPLANATIONS ON BACK OF SHEET







AMERADA BOTTOM-HOLE PRESSURE-~~TEMPERATURE~~ REPORT

R.P.G. 3 NO. 4703 CLOCK NO. HK 1931 SPEED 24 HR. LEASE L. W. Ward WELL NO. 2

ELEMENT NO. 10,655N RANGE 0-6000 CORR. TO — °F. LOCATION Bronco S/D Pool Lea, County, N.M.

RUN BY JRE/RAB CALCULATED BY JRE/RAB REPORTED BY RAB DATE RUN 10-2-53 TIME 10:45 PULLED 10-3-53 TIME 10:37 a.m.

9-24-53 581.23 bbl. in 8 hrs. WELL DATA Pkr. Set @ 11,499' Gas measurement by orifice well tester.

POTENTIAL: CHOKE 1/2" OIL WATER 0 G.O.R. 113 ZONE Siluro-Devonian TOP 11,566' BOTTOM — T.D. 11,871

HOW PRODUCED Natural flow thru tbg. P.I. CASING 5½" DEPTH 11,650' TUBING 2" DEPTH 11,864

HOURS SHUT IN 46 WELL HEAD PRESS.: CAS. Pkr. TUB 1000 TOP LINER — PERFORATIONS Open hole 11,650-11,871

LAST RESERVOIR PRESSURE Initial DEPTH 11,810 DATE ELEVATION 3810DF GRAVITY OF OIL 45.0 SP. GR. OF GAS

Flow line: 1627' of 3" Estimated shrinkage - 12%

Trap press: 65 psi

TEST RECORD

PURPOSE OF TEST: To determine flowing characteristics of well.

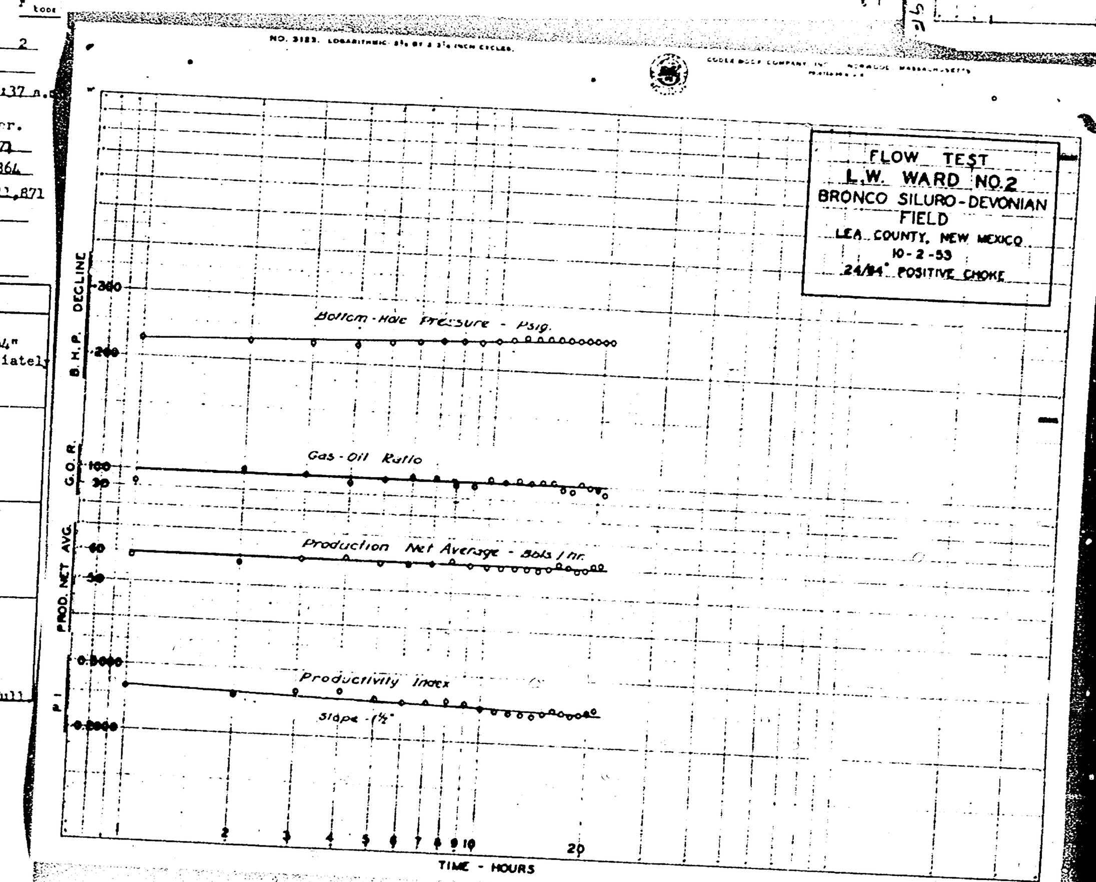
TIME	DEPTH	PRESSURE	Press. Decline	Tbg. Prod.	Prod. Net	Prod.Net Average	P. I. (Hrly)	Tbg. Press.	GOR	Remarks
11:15A	11810									
11:45A	11810	4771	-	-	-	-	-	1000	-	Opened well on a 24/64" Pos. Choke. Oil Immediately
12:45P		4546	225	0.03	60.75	58.84	0.2615	545	93	
1:45		4544	227		56.93	57.62	0.2538	546	102	
2:45		4544	227	-	58.31	59.69	0.2630	547	100	
3:45		4544	227	-	61.07	60.38	0.2660	550	96	
4:45		4541	230	-	59.69	59.00	0.2565	551	99	
5:45		4538	233	-	58.31	58.48	0.2510	550	101	
6:45		4535	236	-	58.65	59.69	0.2529	549	101	
7:45		4535	236	-	60.72	60.72	0.2573	549	97	
8:45		4535	236	-	60.72	59.69	0.2529	548	97	
9:45		4532	239	-	58.65	59.17	0.2476	548	102	
10:45		4529	242	-	59.69	59.17	0.2445	547	100	
11:45		4526	245	-	58.65	59.00	0.2408	547	102	
12:45A		4526	245	-	59.34	58.83	0.2401	547	100	
1:45		4526	245	-	58.31	58.31	0.2380	547	101	
2:45		4526	245	-	58.31	59.52	0.2429	547	101	
3:45		4526	245	-	60.72	61.07	0.2493	547	97	
4:45		4526	245	-	61.41	60.03	0.2450	547	96	
5:45		4526	245	-	58.65	59.00	0.2408	547	101	
6:45		4526	245	-	59.34	59.69	0.2436	547	99	
7:45		4526	245	-	60.03	60.72	0.2478	547	98	
8:45		4526	245	-	61.41	61.41	0.2507	547	95	Shut well in. Storage full

EXPLANATIONS OR CHART

Total oil production prior to test: 673 bbl.

Total oil production during test: 1249.63

MAKE FURTHER EXPLANATIONS ON BACK OF SHEET



AMERADA PETROLEUM CORP.
Weems # 1
Yoakum County, Texas

ROTARY ENGINEERS LABORATORIES
PHONE 4-6289 700 S. PECOS
MIDLAND, TEXAS

October 27, 1952

Amerada Petroleum Corp.,
McClintic Building,
Midland, Texas

Att: Mr. J. G. [illegible]

Dear Sirs:

The cores from your Weems et al # 1 well in Yoakum County, Texas have been analyzed for porosity and permeability by Special Analysis method. The results are herewith submitted in both tabular and graphic form. The graph is plotted on a scale of 5" to 100' to correlate with the electric logs of the same scale.

The cores were not "quick frozen", and no fluids are reported.

We appreciate your business, and hope the results are satisfactory.

Yours very truly,

A.E. [illegible]

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ROTARY ENGINEERS LABORATORIES
CORE ANALYSIS MIDLAND, TEXAS WATER ANALYSIS

COREGRAPH

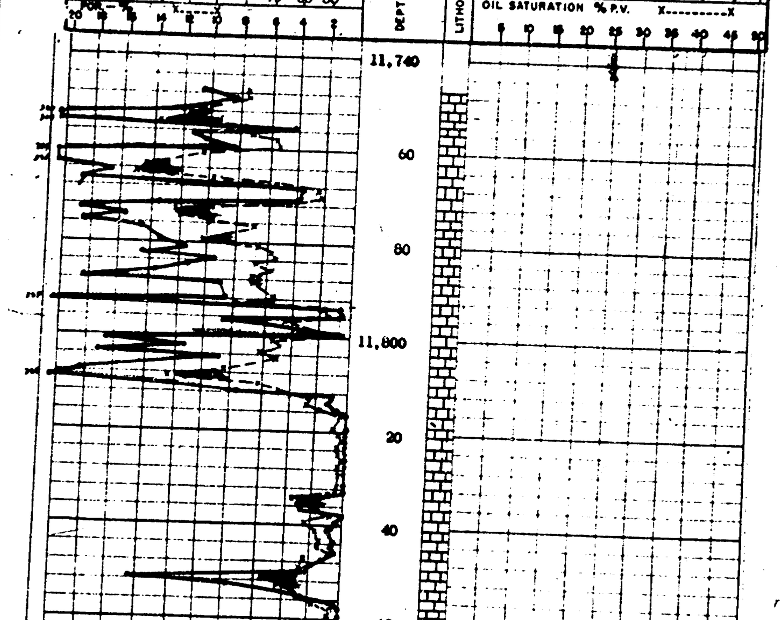
COMPANY Amerada Petroleum Corp.
WELL Weems et al # 1
FIELD Wildcat
COUNTY Yoakum
STATE Texas
DEPTH FROM 11,747 TO 11,860
DATE 10-27-52
ANALYST LCL

REMARKS Devonian

TYPE CORE BARREL Diamond

ELEVATION

SANDSTONE, LIMESTONE, DOLOMITE, SHALE, CHERT, ANHYDRITE - GYP, COAL, LOST CORE



ROTARY ENGINEERS LABORATORIES
PHONE 4-6289 700 S. PECOS
MIDLAND, TEXAS

SUMMARY OF ANALYSIS

COMPANY Amerada Pet. Corp. WELL Weems et al # 1

TYPE CORING FLUID WATER BASE 11,747 OIL BASE 11,860

INTERVAL CORED 113'

FEET OF CORE ANALYZED

FEET OF CORE CONSIDERED TO BE OIL PRODUCTIVE 92'

AVERAGE POROSITY 2.[illegible]

AVERAGE PERMEABILITY [illegible]

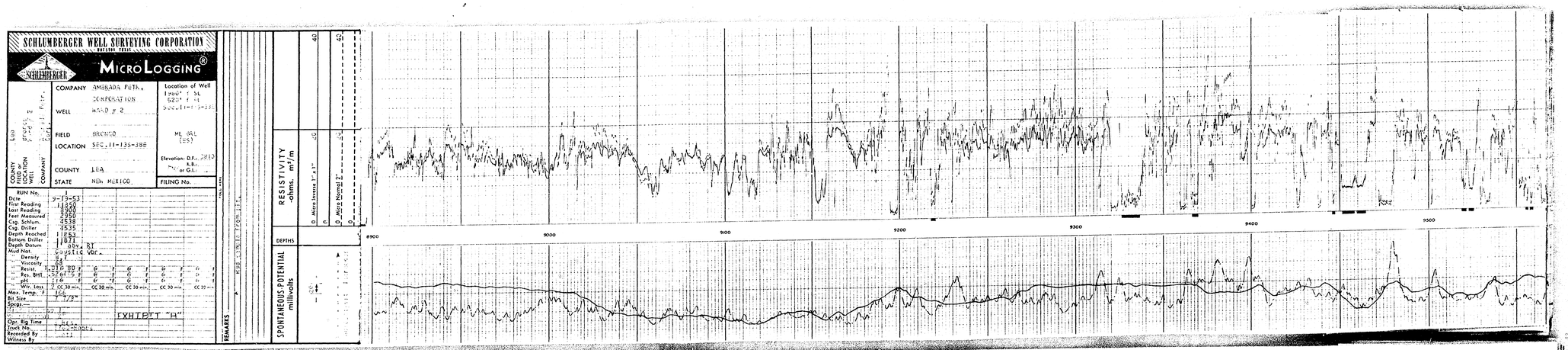
AVERAGE TOTAL WATER SATURATION

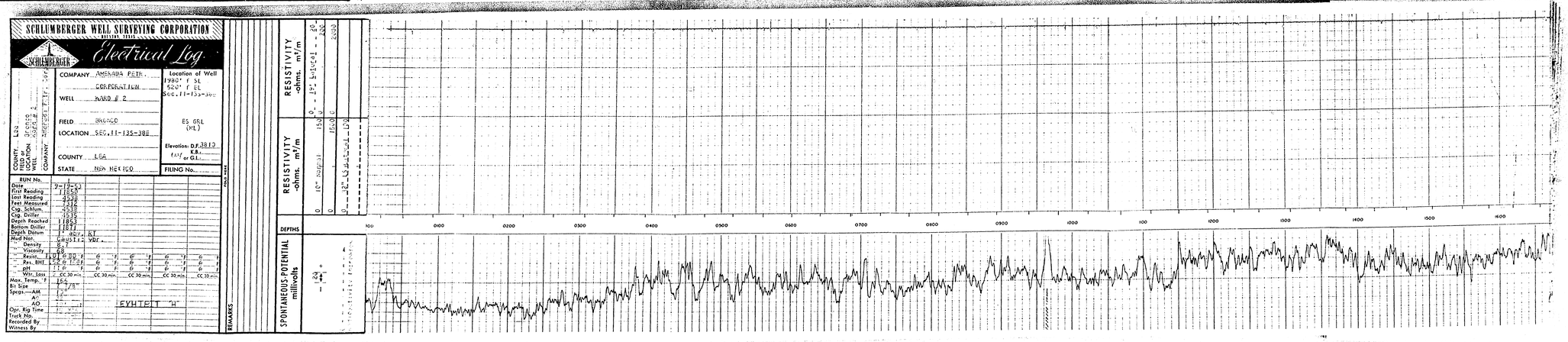
AVERAGE RESIDUAL OIL SATURATION

REMARKS: That portion of the core with less than one millidarcy permeability was not considered to be productive.

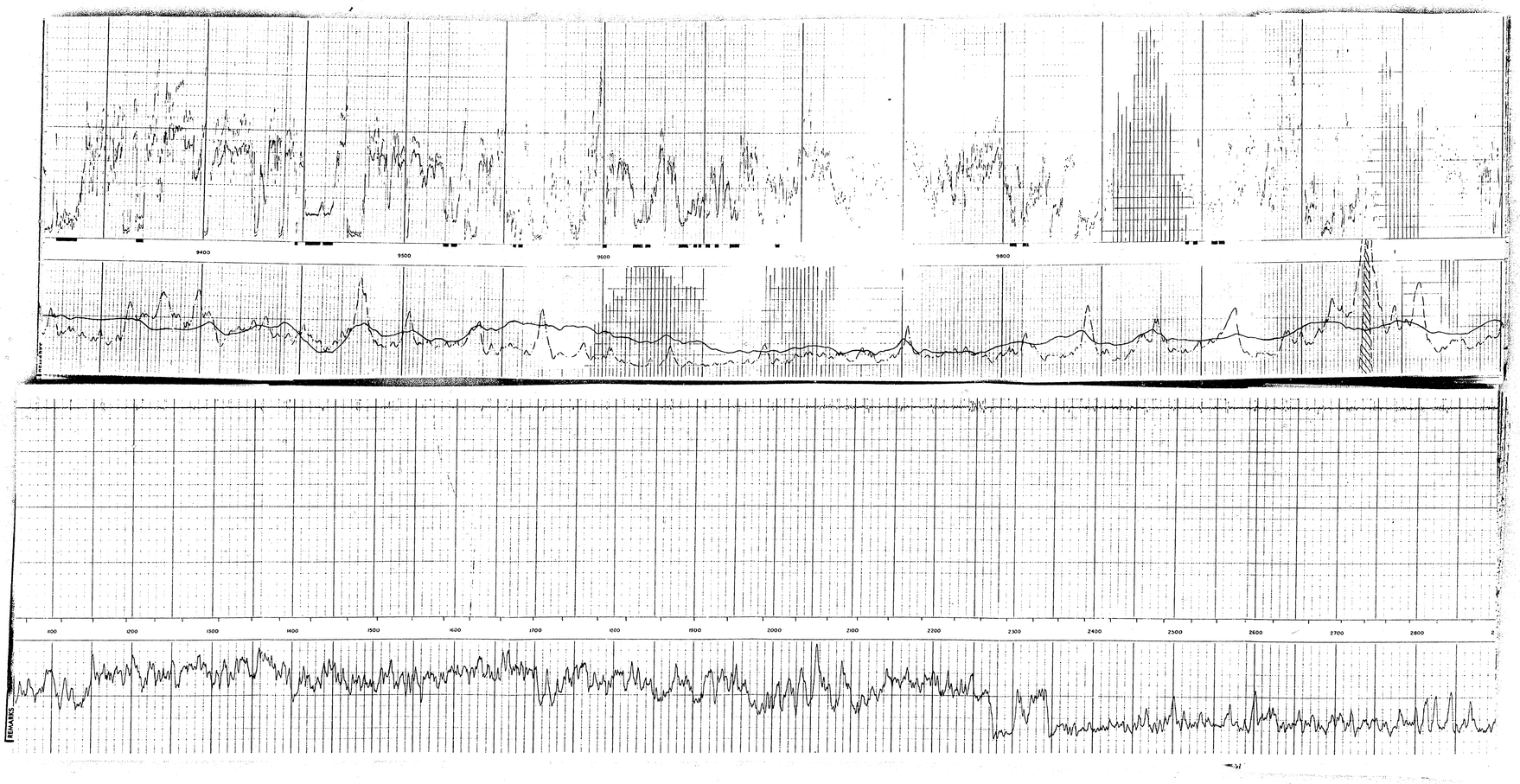
ROTARY ENGINEERS LABORATORIES
CORE ANALYSIS TABULAR DATA

SAMPLE NUMBER	DEPTH	PLUG PERM. M.D.	PLUG POROSITY %	EFFECTIVE POROSITY %	PERMEABILITY OF EFFECTIVE POROSITY M.D.	TOTAL WATER SATURATION % P.V.	RESIDUAL OIL SATURATION % P.V.	PROBABLE PRODUCTION	REMARKS
[illegible]	11,[illegible]			.5	-.1				dense lime
[illegible]	[illegible]			.5	-.1				
[illegible]	[illegible]			.2	-.1				
[illegible]	[illegible]			.6	-.1				
[illegible]	[illegible]			.5	-.1				
[illegible]	[illegible]			.2	-.1				
[illegible]	[illegible]			.3	-.1				
[illegible]	[illegible]			.5	-.1				
[illegible]	[illegible]			.3	-.1				
[illegible]	[illegible]			.6	-.1				
[illegible]	[illegible]			2.5	31.0				porous lime
[illegible]	[illegible]			2.7	42.0				
[illegible]	[illegible]			1.5	46.0				
[illegible]	[illegible]			.5	-.1				
[illegible]	[illegible]			2.4	9.0				
[illegible]	[illegible]			1.9	14.0				
[illegible]	[illegible]			1.7	8.0				
[illegible]	[illegible]			1.7	12.0				
[illegible]	[illegible]			.9	6.0				
[illegible]	[illegible]			2.2	10.0				
[illegible]	[illegible]			2.7	29.0				
[illegible]	[illegible]			2.1	22.0				
[illegible]	[illegible]			2.5	[illegible]				
[illegible]	[illegible]			4.1	117.0				
[illegible]	[illegible]			2.4	62.0				
[illegible]	[illegible]			1.5	6.0				
[illegible]	[illegible]			.4	-.1				
[illegible]	-60			.6	-.1				


SCHLUMBERGER WELL SURVEYING CORPORATION
MICROLOGGING
COMPANY AMERADA PETR. CORPORATION
WELL WARD # 2
FIELD BRONCO
LOCATION SEC. 11-13S-38E
COUNTY LEA
STATE NEW MEXICO
Location of Well
1980' f SL
520' f EL
Sec. 11-13S-38E
ML GRL (ES)
Elevation: D.F. 3810
K.B.
or G.L.
FILING No.
RUN No. 1
Date 9-19-53
First Reading 11850
Last Reading 8900
Feet Measured 2950
Csg. Schlum. 4538
Csg. Driller 4535
Depth Reached 11853
Bottom Driller 11871
Depth Datum 1' abv. RT
Mud Nat. Caustic Vbr.
Density 8.7
Viscosity 68
Resist. 1.01 @ 80 F
Res. BHT 1.52 @ 175 F
pH 11.6 F
Wtr. Loss 2 CC 30 min.
Max. Temp. F 166
Bit Size 7 7/8"
Spcgs.—
Opr. Rig Time
Truck No.
Recorded By
Witness By
EXHIBIT "A"
REMARKS
RESISTIVITY -ohms. m²/m
0 Micro Inverse 1" x 1" 40
0 Micro Normal 2" 40
DEPTHS
SPONTANEOUS-POTENTIAL millivolts
8900
9000
9100
9200
9300
9400
9500


SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Log
COMPANY AMERADA PETR. CORPORATION
WELL WARD # 2
FIELD BRONCO
LOCATION SEC. 11-13S-38E
COUNTY LEA
STATE NEW MEXICO
Location of Well
1980' f SL
520' f EL
Sec. 11-13S-38E
ES GRL (ML)
Elevation: D.F. 3810
K.B.
or G.L.
FILING No.
RUN No. 1
Date 9-19-53
First Reading 11850
Last Reading 4538
Feet Measured 7312
Csg. Schlum. 4538
Csg. Driller 4535
Depth Reached 11853
Bottom Driller 11871
Depth Datum 1' abv. RT
Mud Nat. Caustic Vbr.
Density 8.7
Viscosity 68
Resist. 1.01 @ 80 F
Res. BHT 1.52 @ 175 F
pH 11.6 F
Wtr. Loss 2 CC 30 min.
Max. Temp. F 166
Bit Size 7 7/8"
Spcgs.—AM 13"
AO 25"
Opr. Rig Time
Truck No.
Recorded By
Witness By
EXHIBIT "A"
REMARKS
RESISTIVITY -ohms. m²/m
0 - 19" Lateral - 20
0 200
RESISTIVITY -ohms. m²/m
0 10" Normal 150
0 1500
0 32" Lateral 150
DEPTHS
SPONTANEOUS-POTENTIAL millivolts
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
1300
1400
1500
1600

164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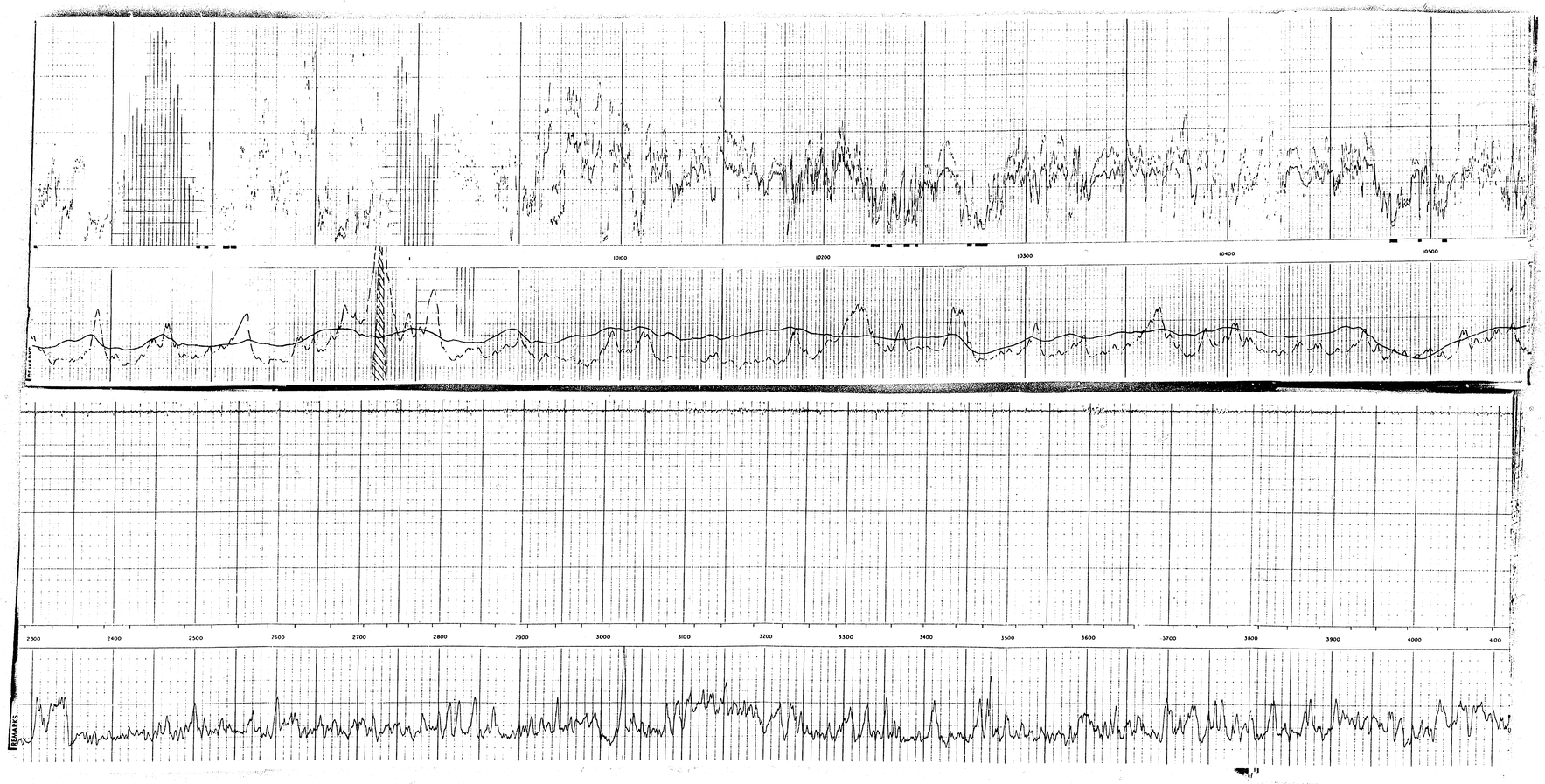
9500
9600
9800
100
1200
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
REMARKS

165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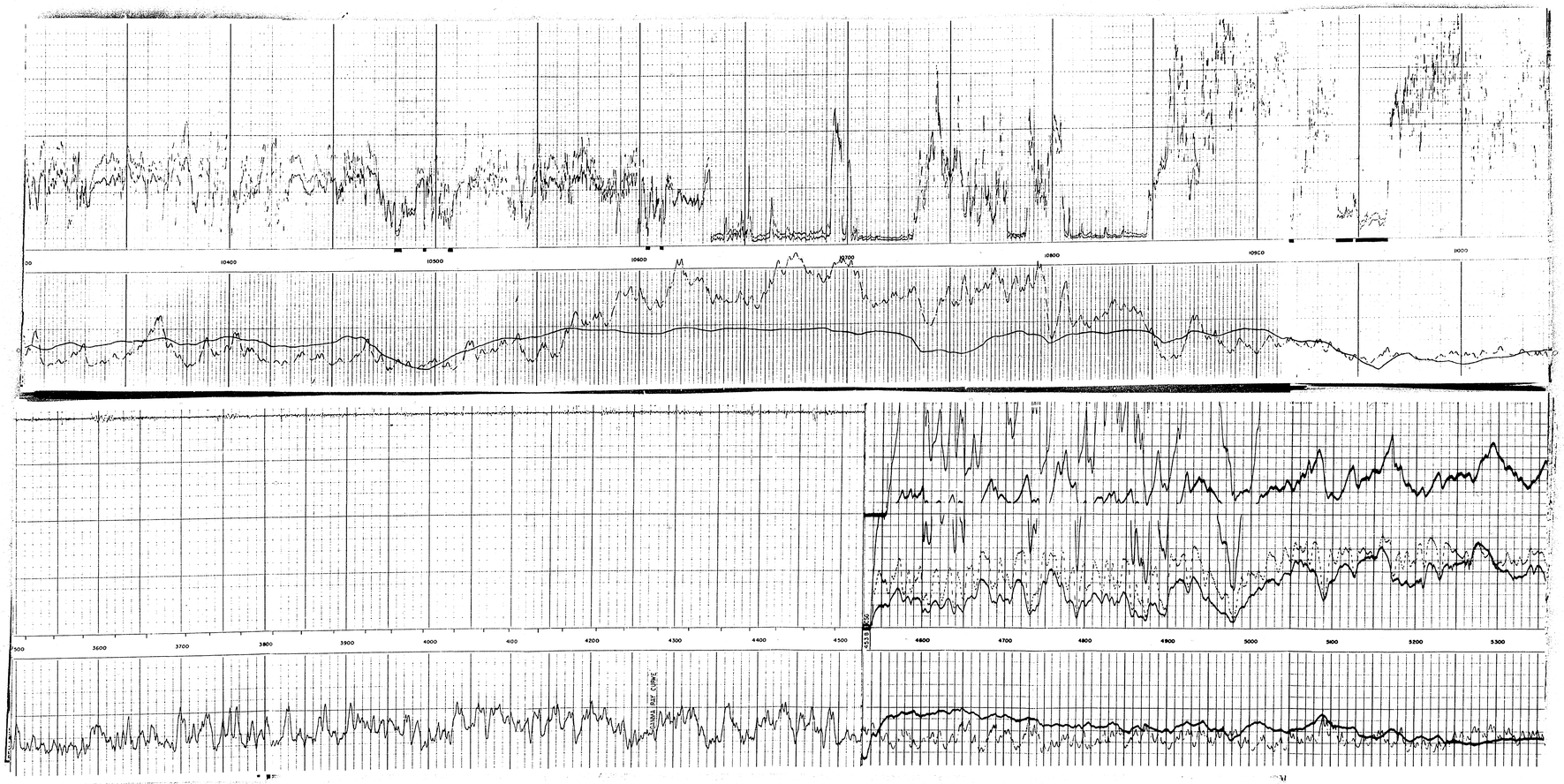
REMARKS.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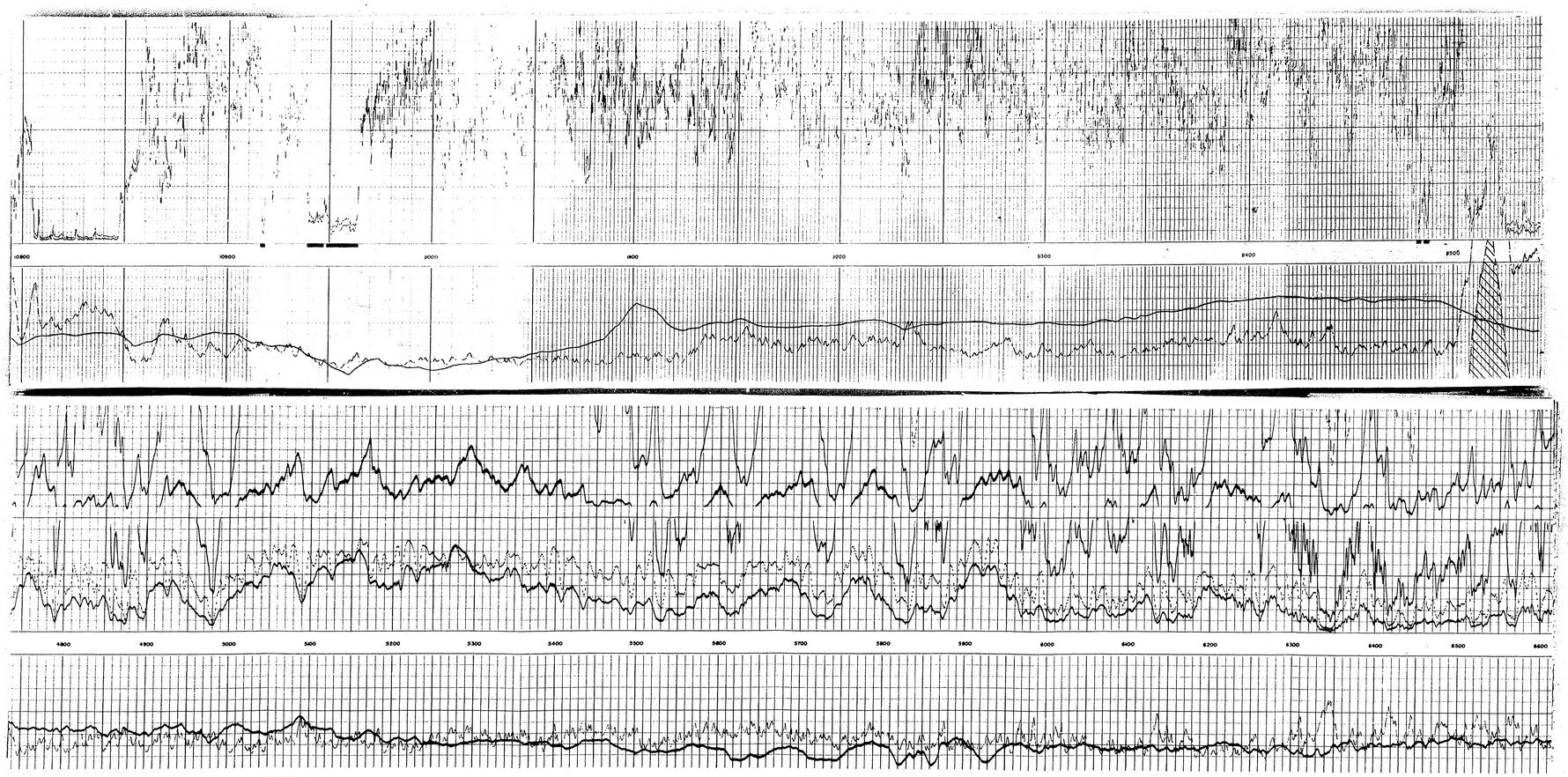
5300
GAMMA RAY CURVE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5100
5200
5300
5400
5500
5600
5700
5800
5900
6000
6100
6200
6300
6400
6500
6600

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

SCHLUMBERGER

MicroLogging®

COMPANY	AMERADA PETR. CORPORATION
WELL	BROWN # 2
FIELD	BRONCO
LOCATION	SEC. 11-17S-38E
COUNTY	LEA
STATE	NEW MEXICO

Location of Well
1420' ± SL
520' ± EL
SEC. 11-17S-38E

Mineral (ES)

Elevation: D.F. 3813
K.B.
or G.L.

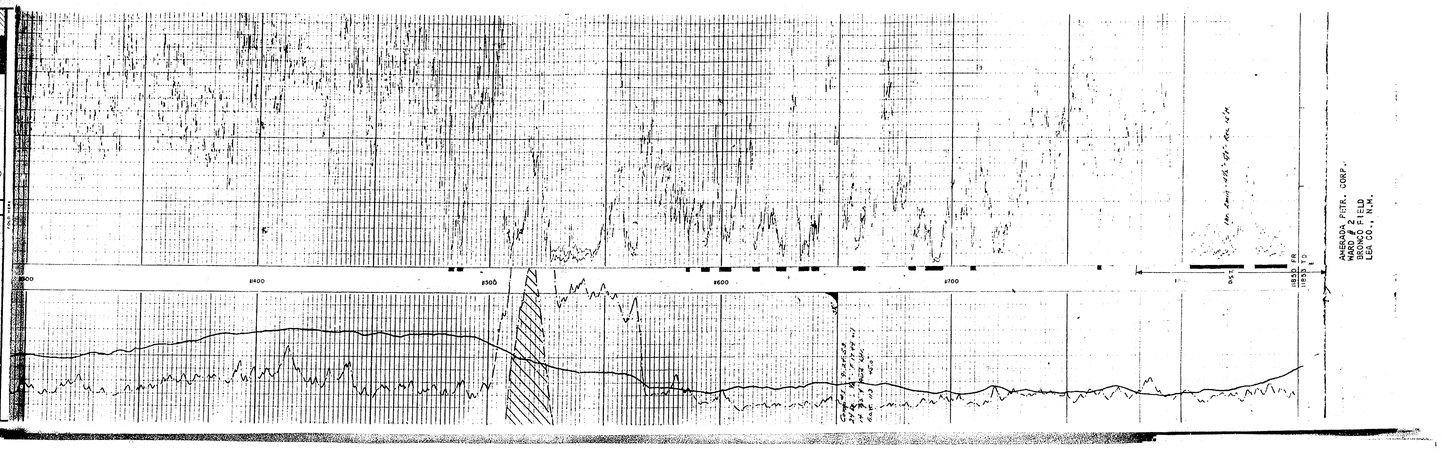
FILING No.

County Lea
Field or Area
Location of Well Sec. 11 T. 17S. R. 38E.
Company

RUN No.	1								
Date	9-19-53								
First Reading	11350								
Last Reading	8300								
Feet Measured	2950								
Csg. Schlum.	4538								
Csg. Driller	4535								
Depth Reached	11693								
Bottom Driller	11671								
Depth Datum	GDY. ELEV.								
Mud Net.	Gyp Lig. Vis.								
Density	9.7								
Viscosity	58								
Resist.	2.16 @ 80 F	@ F	@ F	@ F	@ F	@ F	@ F	@ F	@ F
Res. Bht	.52 @ 172 F	@ F	@ F	@ F	@ F	@ F	@ F	@ F	@ F
pH	11.6	F	F	F	F	F	F	F	F
Wtr. Loss	7 cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.	cc 30 min.
Max. Temp.	176 F								
Bit Size	7 7/8"								
Spcs.									

EXHIBIT "H"

Opr. Rig Time
Truck No.
Recorded By
Witness By



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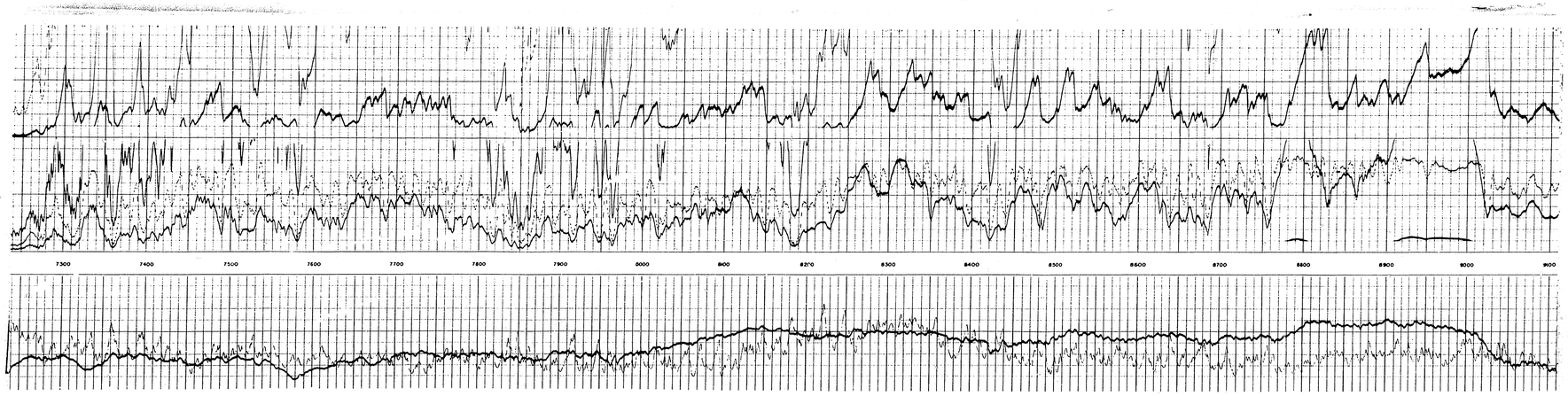
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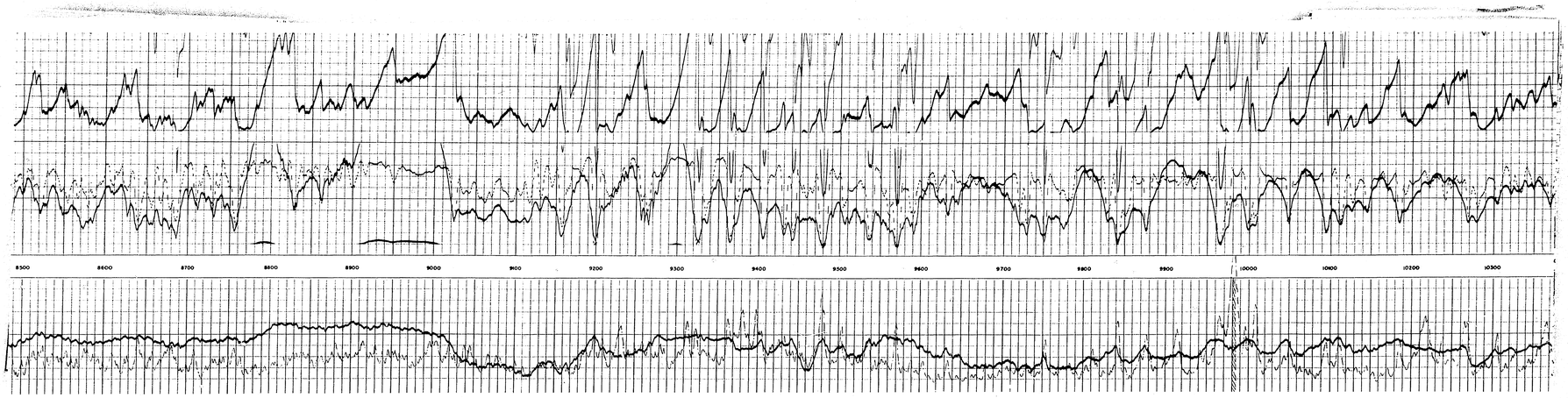
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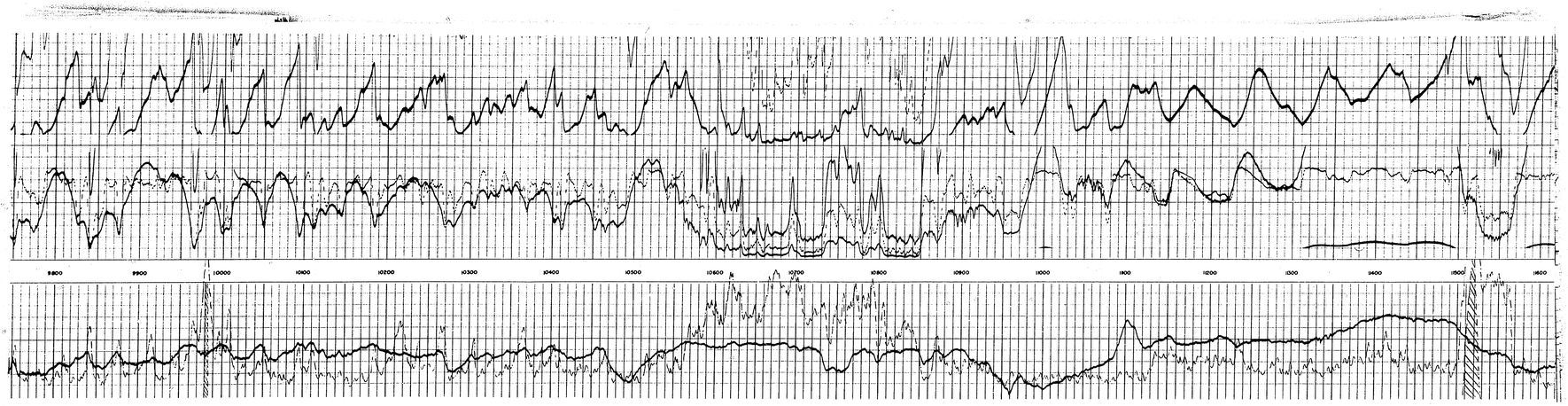
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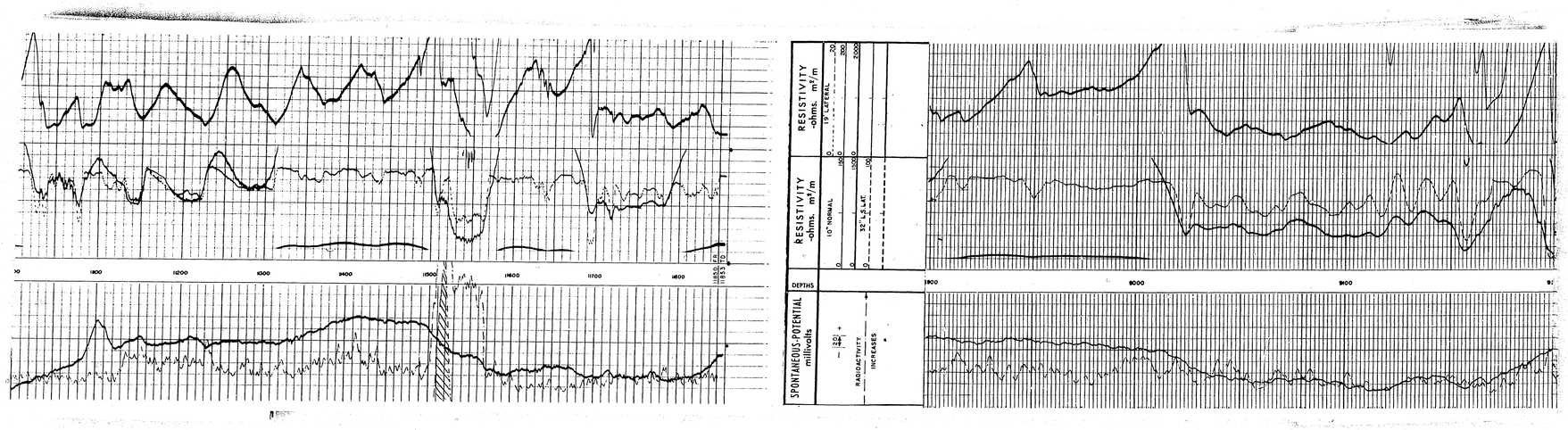
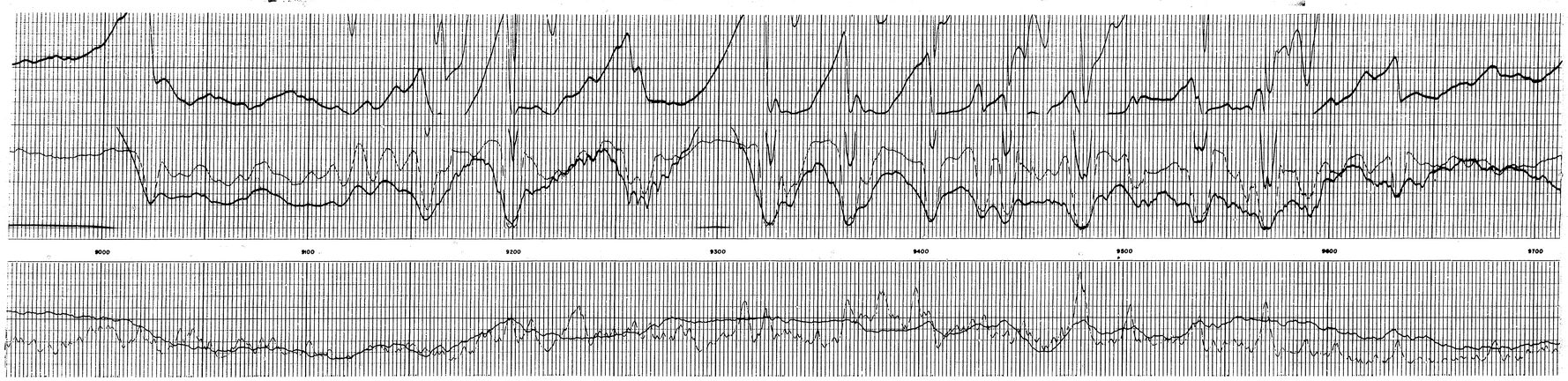
11400
11500
11600



RESISTIVITY -ohms. m²/m
19" LATERAL
RESISTIVITY -ohms. m²/m
10" NORMAL
32" L.S.LAT.
DEPTHS
SPONTANEOUS-POTENTIAL millivolts
RADIOACTIVITY INCREASES

173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9400
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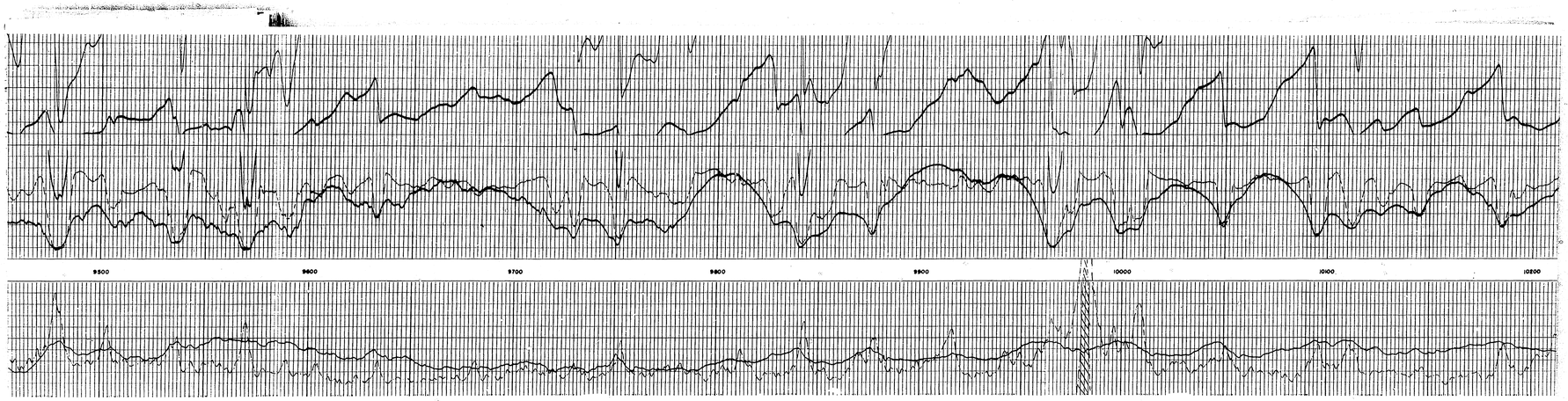
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10100
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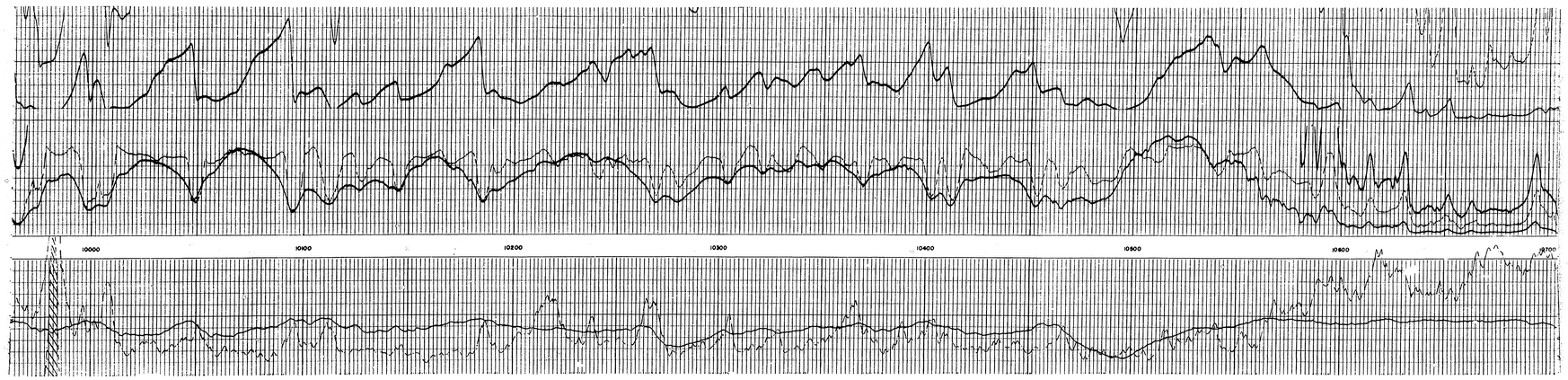

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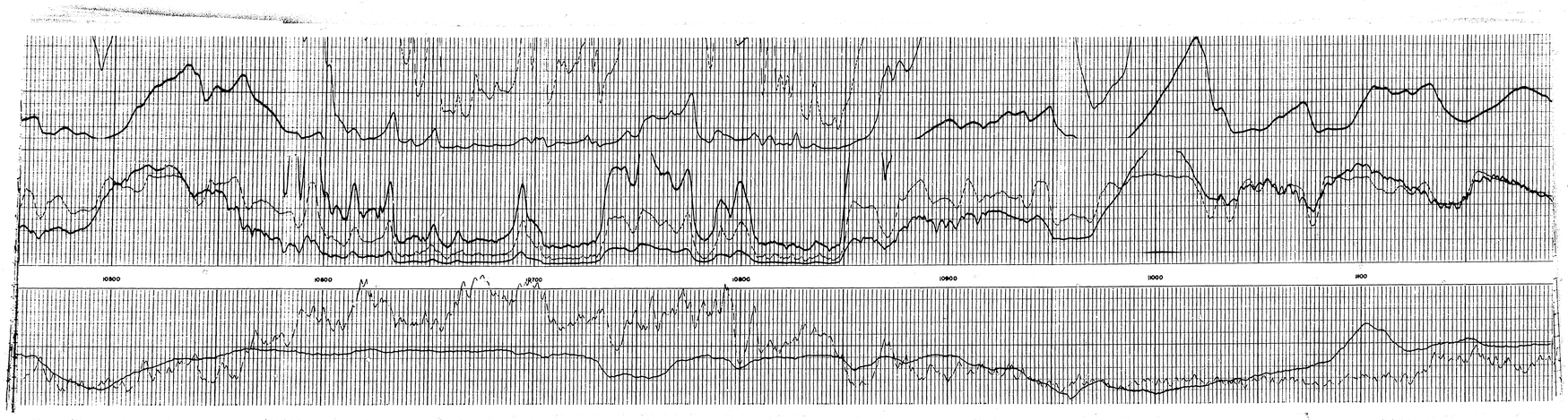
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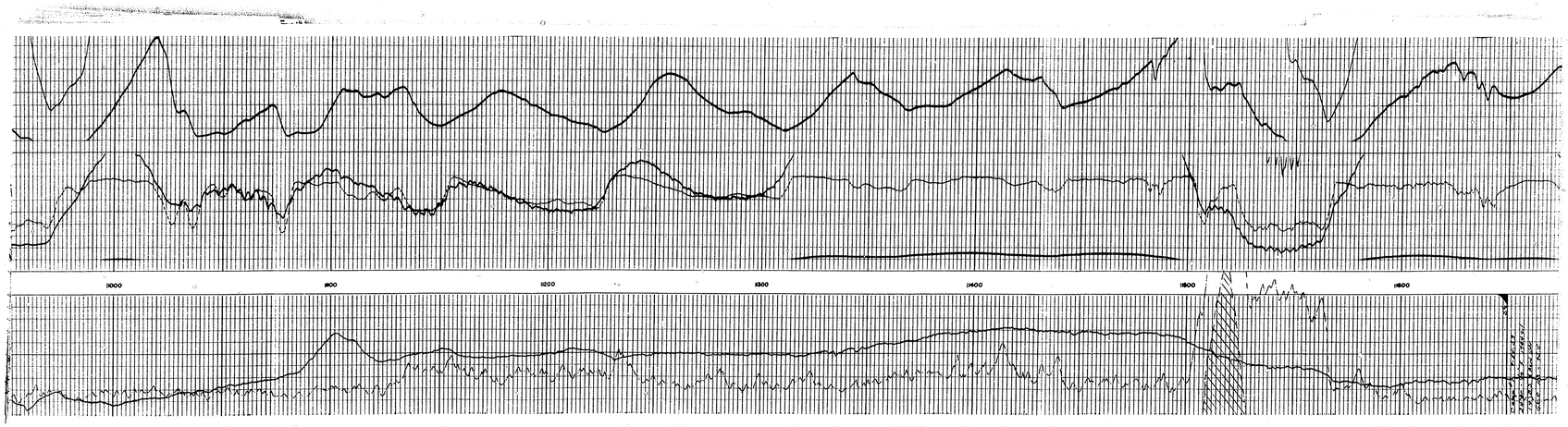
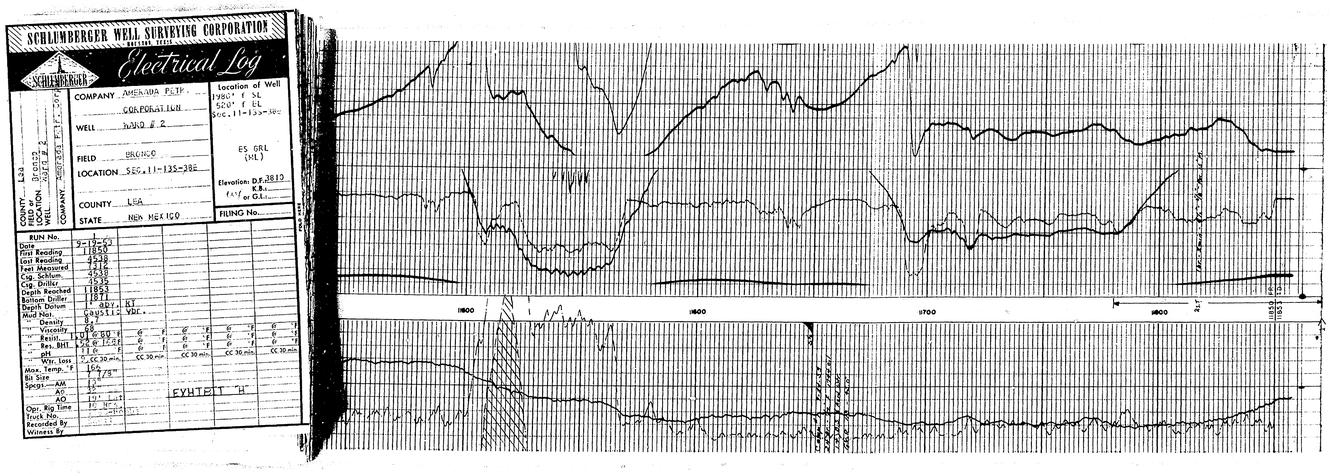
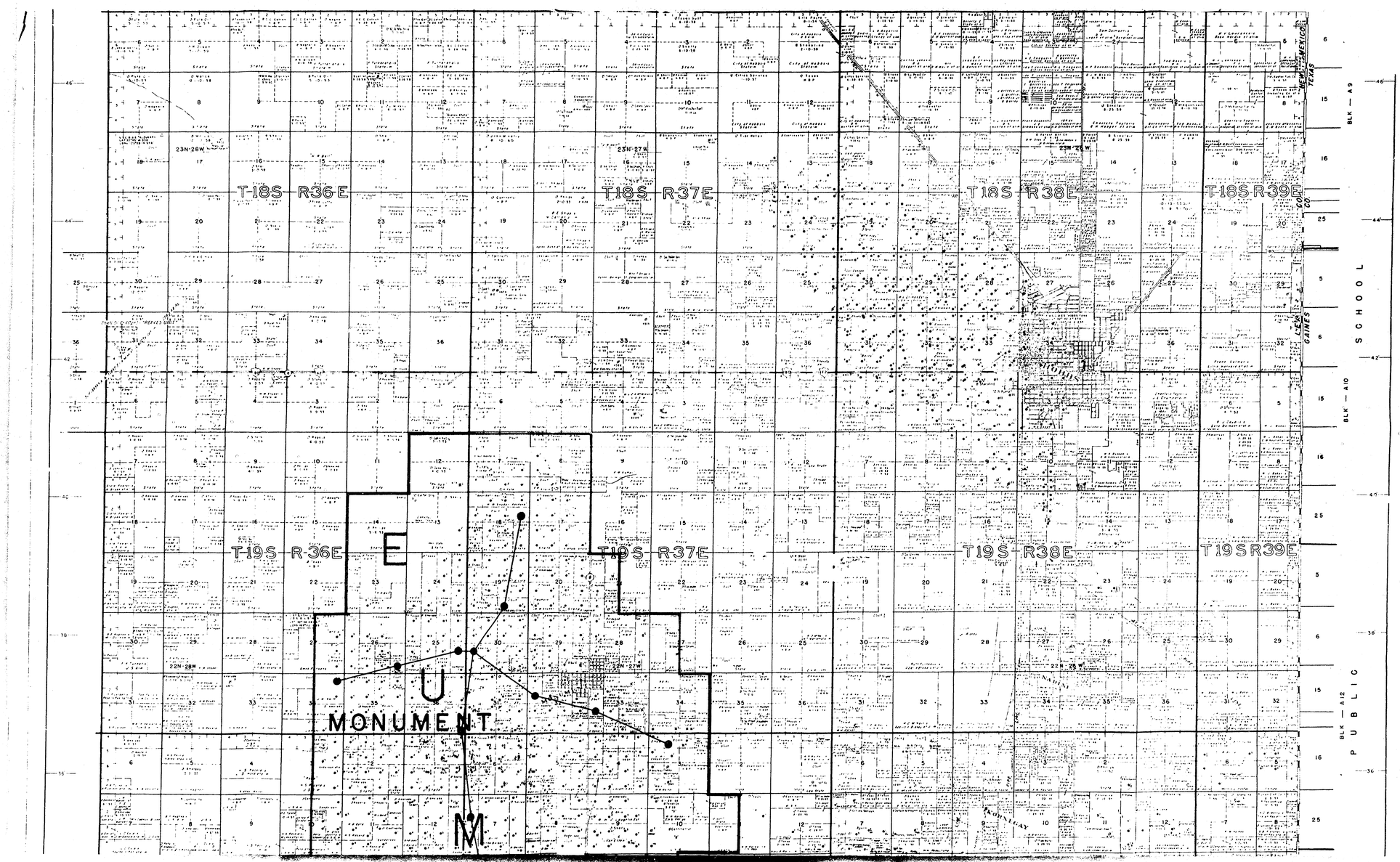
10900
11000
1100


1000
1100
1200
1300
1400
1500
1600

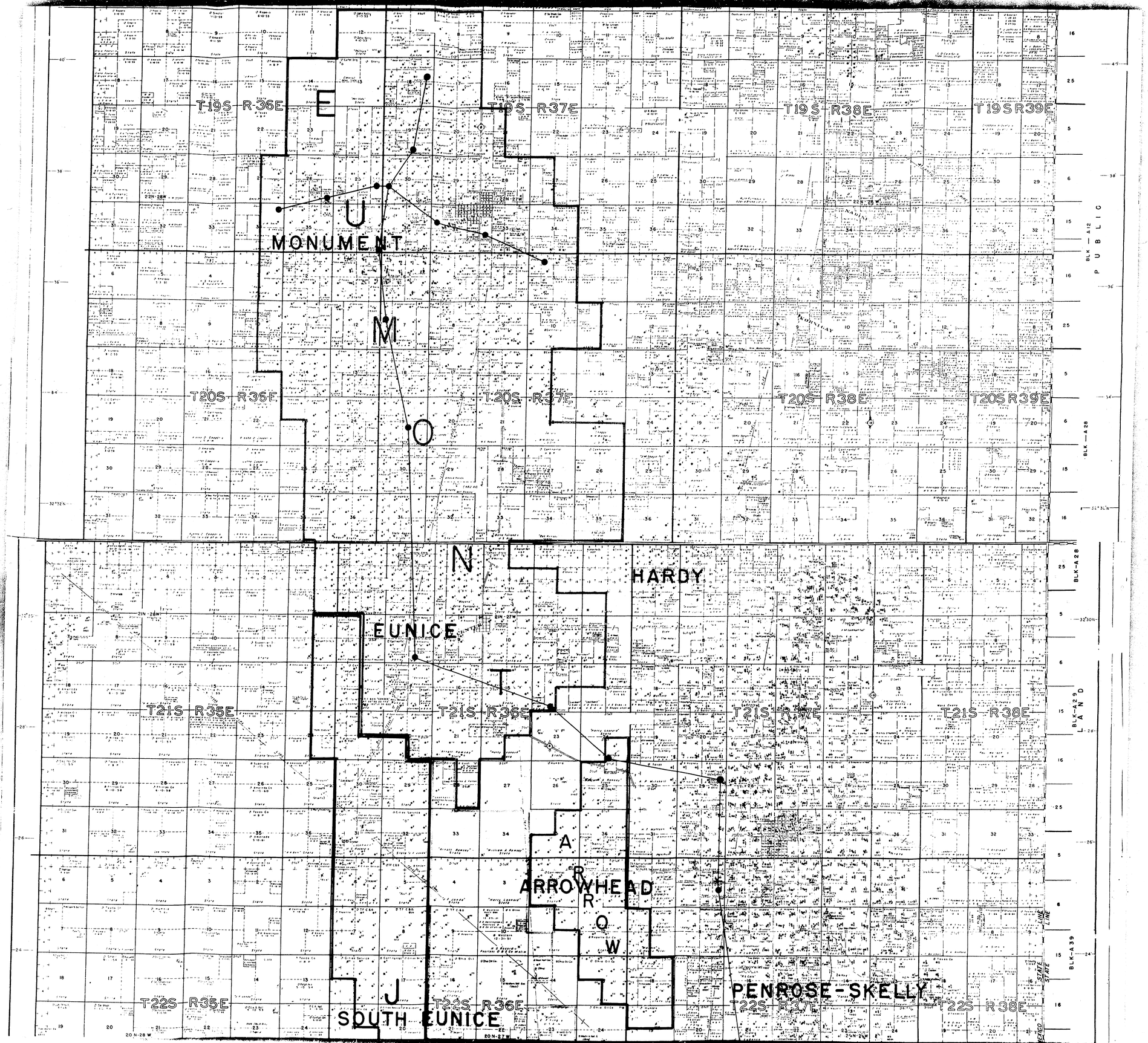

SCHLUMBERGER WELL SURVEYING CORPORATION
Electrical Log
COMPANY AMERADA PETR. CORPORATION
WELL WARD # 2
FIELD BRONCO
LOCATION SEC. 11-13S-38E
COUNTY LEA
STATE NEW MEXICO
Location of Well
1980' f SL
520' f EL
Sec. 11-13S-38E
ES GRL (ML)
Elevation: D.F. 3810
K.B.
or G.L.
FILING No.
RUN No. 1
Date 9-19-63
First Reading 11850
Last Reading 4538
Feet Measured 7312
Csg. Schlum. 4538
Csg. Driller 4535
Depth Reached 11853
Bottom Driller 11871
Depth Datum 1' ADV. RT
Mud Not. Gaussite VDR.
Density 8.7
Viscosity 68
Resist. 1.01 @ 80 °F
Res. BHT 1.52 @ 125 °F
pH 11.6
Wtr. Loss 0 CC 30 min.
Max. Temp. °F 164
Bit Size 7 7/8"
Spcgs. AM 13
AO 35
AO 19' Lat
Opr. Rig Time 10 Hrs.
Truck No.
Recorded By
Witness By
EXHIBIT "H"
11800
11600
11700
11800
11850
11853
WARD # 2
BRONCO FIELD
LEA CO., N.M.

179

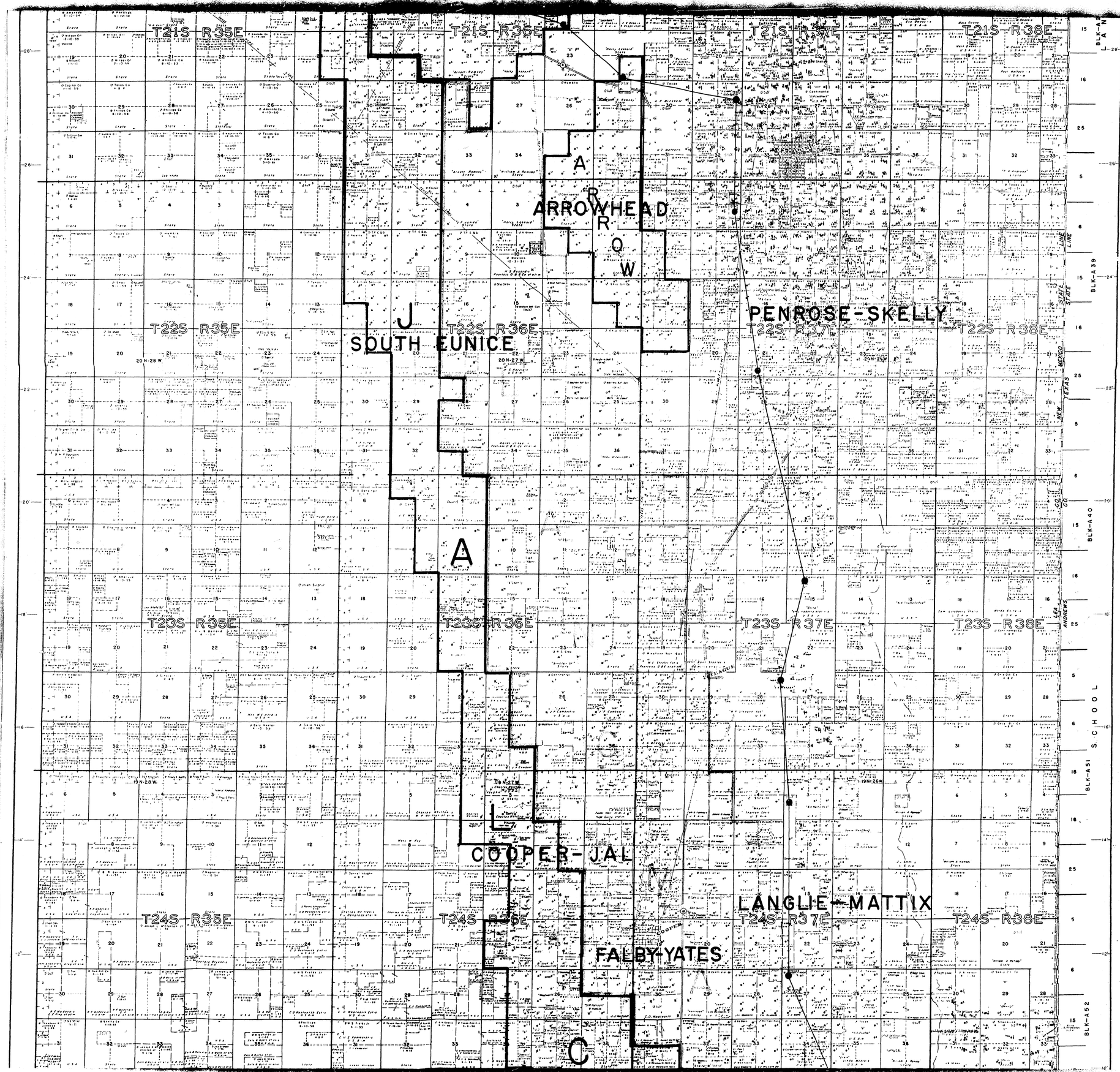

T18S R36E
T18S R37E
T18S R38E
T18S R39E
T19S R36E
T19S R37E
T19S R38E
T19S R39E
23N-28W
23N-27W
23N-26W
22N-28W
NEW MEXICO
TEXAS
BLK — A9
BLK — A10
BLK — A12
SCHOOL
PUBLIC
LEA CO.
GAINES
MONUMENT
E
U
M

180

181

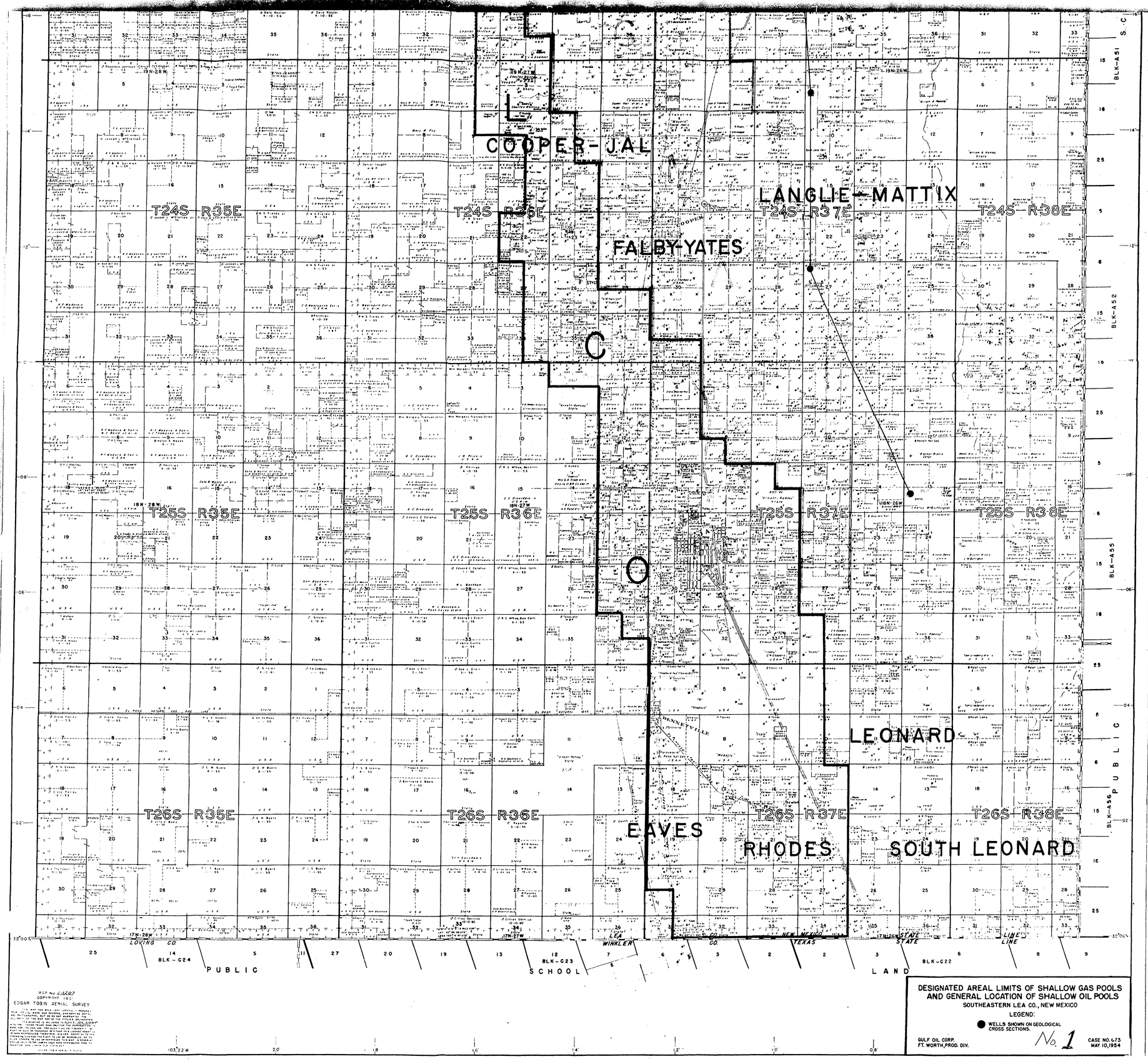

EUNICE
MONUMENT
HARDY
ARROWHEAD
PENROSE-SKELLY
SOUTH EUNICE
T19S R36E
T19S R37E
T19S R38E
T19S R39E
T20S R36E
T20S R37E
T20S R38E
T20S R39E
T21S R35E
T21S R36E
T21S R37E
T21S R38E
T22S R35E
T22S R36E
T22S R37E
T22S R38E
BLK A12
PUBLIC
BLK A28
BLK A29
LAND
BLK A39
STATE LINE
NEW MEXICO

182



T21S R35E
T21S R36E
T21S R37E
T21S R38E
ARROWHEAD
ARROW
PENROSE-SKELLY
T22S R35E
T22S R36E
T22S R37E
T22S R38E
SOUTH EUNICE
A
T23S R35E
T23S R36E
T23S R37E
T23S R38E
COOPER-JAL
LANGLIE-MATTIX
T24S R35E
T24S R36E
T24S R37E
T24S R38E
FALBY-YATES
C
BLK-A39
BLK-A40
BLK-A51
BLK-A52
NEW MEXICO
TEXAS
LEA
ANDREWS
STATE LINE
SCHOOL

183



MAP NO. J-1207
COPYRIGHT 1951
EDGAR TOBIN AERIAL SURVEY

DESIGNATED AREAL LIMITS OF SHALLOW GAS POOLS AND GENERAL LOCATION OF SHALLOW OIL POOLS

SOUTHEASTERN LEA CO., NEW MEXICO

LEGEND:

● WELLS SHOWN ON GEOLOGICAL CROSS SECTIONS.

GULF OIL CORP.
FT. WORTH, PROD. DIV.

No. 1

CASE NO. 673
MAY 10, 1954

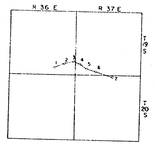
EAST - WEST STRATIGRAPHIC SECTION

THROUGH MONUMENT FIELD
LEA COUNTY, NEW MEXICO

MAY 5, 1954

SCALE

HORIZONTAL SCALE: ——— 1 INCH = 2000 FEET
VERTICAL SCALE ——— 1 INCH = 100 FEET



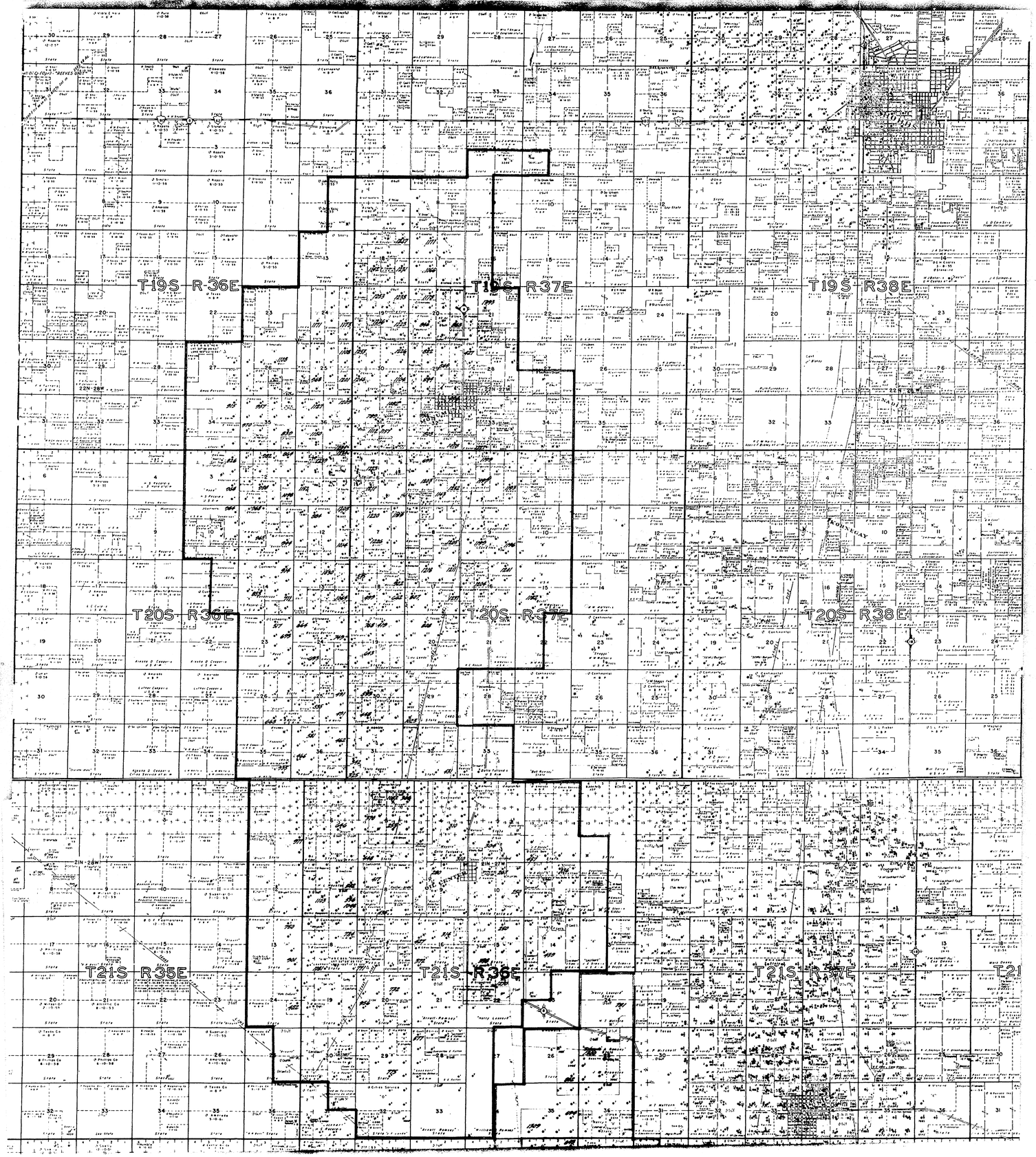
LEGEND

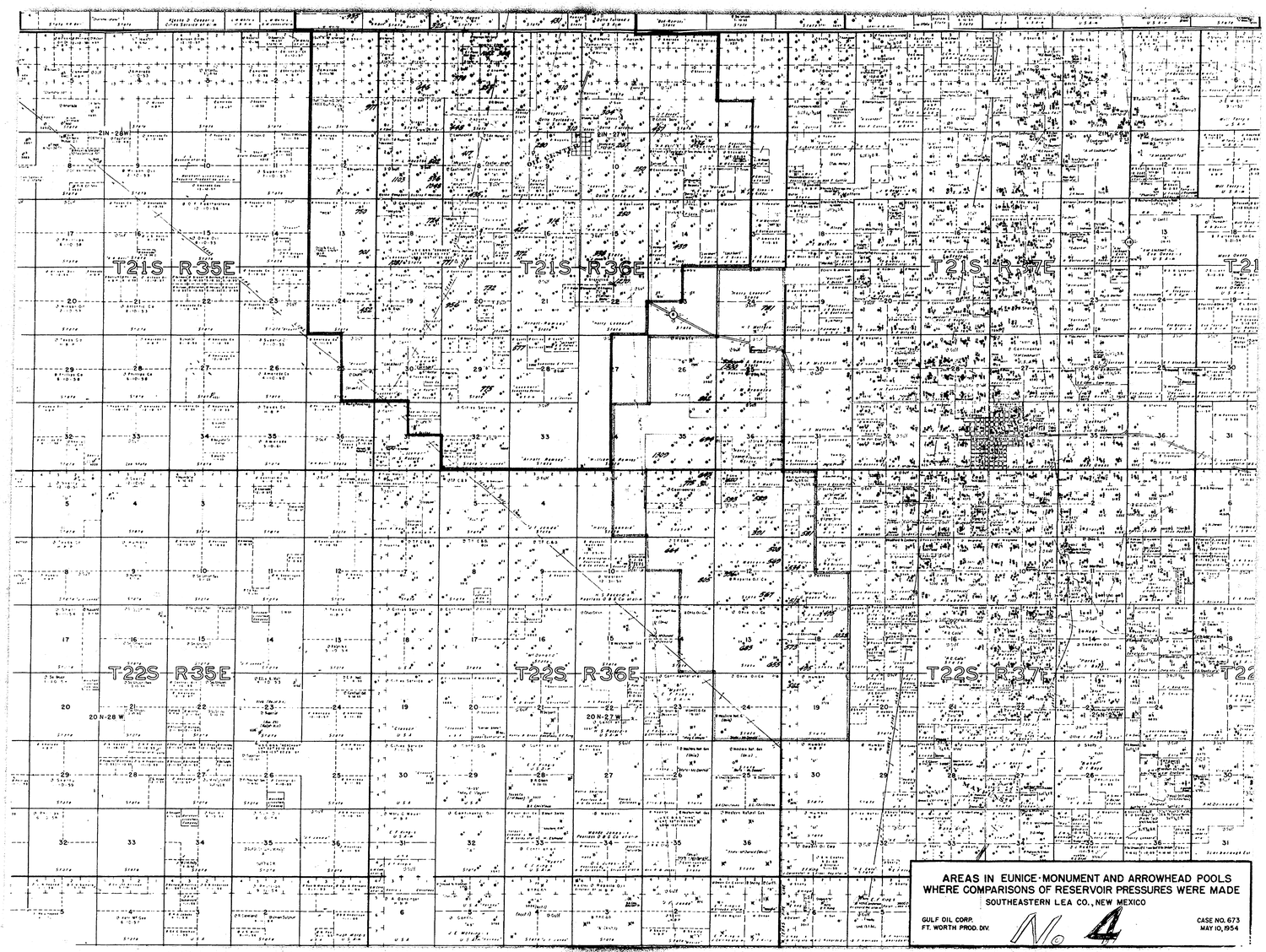
- RED BED
- SANDSTONE
- ANHYDRITE
- DOLOMITE OR LIMESTONE
- DOLOMITIC SAND
- BENTONITE OR BENTONITIC SHALE
- OTHER SHALE
- IMPERVIOUS ZONE

No. 3

184

185


T19S R36E
T19S R37E
T19S R38E
T20S R36E
T20S R37E
T20S R38E
T21S R35E
T21S R36E
T21S R37E



AREAS IN EUNICE-MONUMENT AND ARROWHEAD POOLS
WHERE COMPARISONS OF RESERVOIR PRESSURES WERE MADE
SOUTHEASTERN LEA CO., NEW MEXICO

GULF OIL CORP.
FT. WORTH PROD. DIV.

No. 4

CASE NO. 673
MAY 10, 1954

186

No. 5

COMPARISON OF RESERVOIR PRESSURES

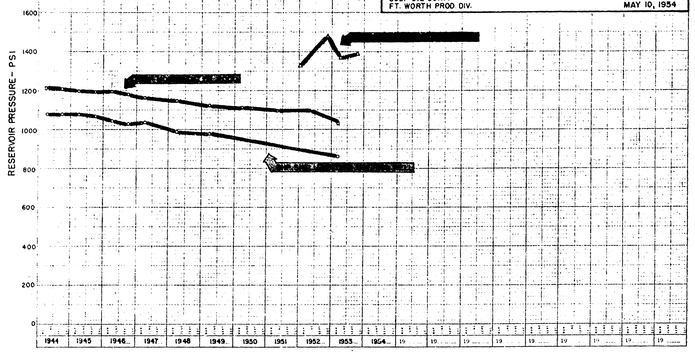
YATES-SEVEN RIVERS-QUEEN GAS RESERVOIR AND GRAYBURG-SAN ANDRES OIL RESERVOIR

LEGEND

BHP GULF SHIPP NO.1 GAS WELL SEC. 21-19S-37E
BHP SHELL STATE H NO.1 OIL WELL SEC. 20-19S-37E
BHP (ARITH. AVERAGE) MONUMENT OIL POOL

GULF OIL CORP.
FT. WORTH PROD DIV.

CASE NO. 673
MAY 10, 1954



No. 6

COMPARISON OF RESERVOIR PRESSURES

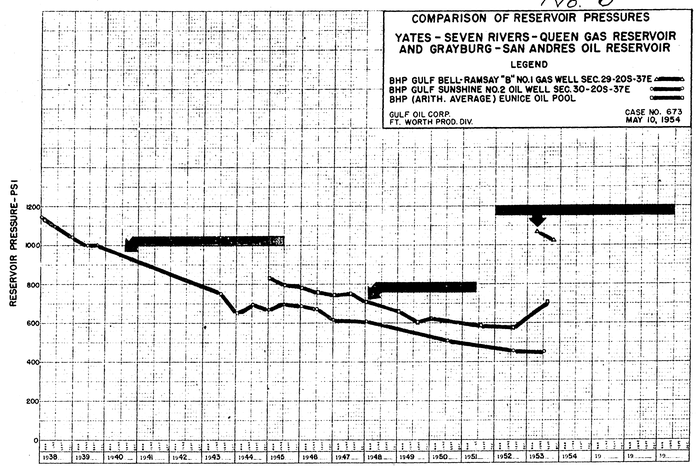
YATES - SEVEN RIVERS - QUEEN GAS RESERVOIR AND GRAYBURG - SAN ANDRES OIL RESERVOIR

LEGEND

BHP GULF BELL-RAMSAY "B" NO.1 GAS WELL SEC.29-20S-37E
BHP GULF SUNSHINE NO.2 OIL WELL SEC.30-20S-37E
BHP (ARITH. AVERAGE) EUNICE OIL POOL

GULF OIL CORP.
FT. WORTH PROD. DIV.

CASE NO. 673
MAY 10, 1954



No. 7

COMPARISON OF RESERVOIR PRESSURES

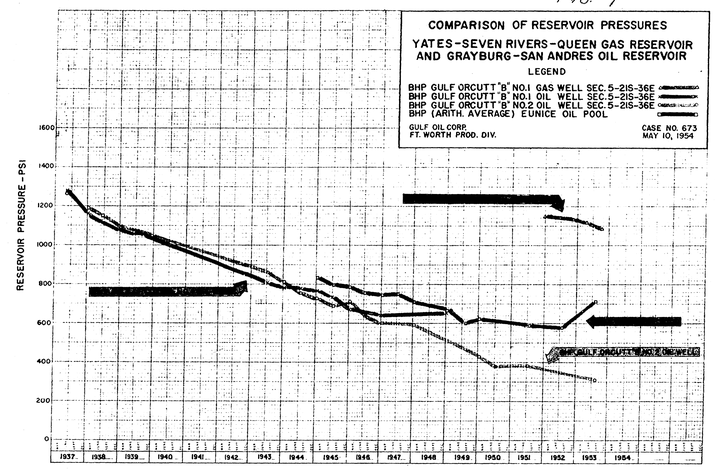
YATES-SEVEN RIVERS-QUEEN GAS RESERVOIR AND GRAYBURG-SAN ANDRES OIL RESERVOIR

LEGEND

BHP GULF ORCUTT "B" NO.1 GAS WELL SEC. 5-21S-36E
BHP GULF ORCUTT "B" NO.1 OIL WELL SEC. 5-21S-36E
BHP GULF ORCUTT "B" NO.2 OIL WELL SEC. 5-21S-36E
BHP (ARITH. AVERAGE) EUNICE OIL POOL

GULF OIL CORP.
FT. WORTH PROD. DIV.

CASE NO. 673
MAY 10, 1954



No. 8

COMPARISON OF RESERVOIR PRESSURES

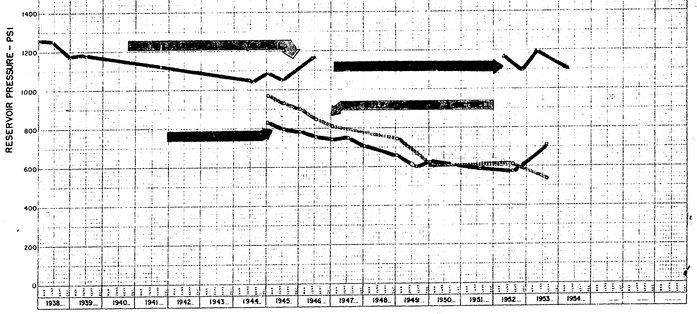
YATES - SEVEN RIVERS - QUEEN GAS RESERVOIR AND GRAYBURG - SAN ANDRES OIL RESERVOIR

LEGEND

BHP GULF CAMPBELL NO.2 GAS WELL SEC. 7-21S-36E
BHP GULF CAMPBELL NO.2 OIL WELL SEC. 7-21S-36E
BHP GULF HOUSTON NO.2 OIL WELL SEC. 7-21S-36E
BHP (ARITH. AVERAGE) EUNICE OIL POOL

GULF OIL CORP.
FT. WORTH PROD DIV.

CASE NO. 673
MAY 10, 1954



No. 9

COMPARISON OF RESERVOIR PRESSURES

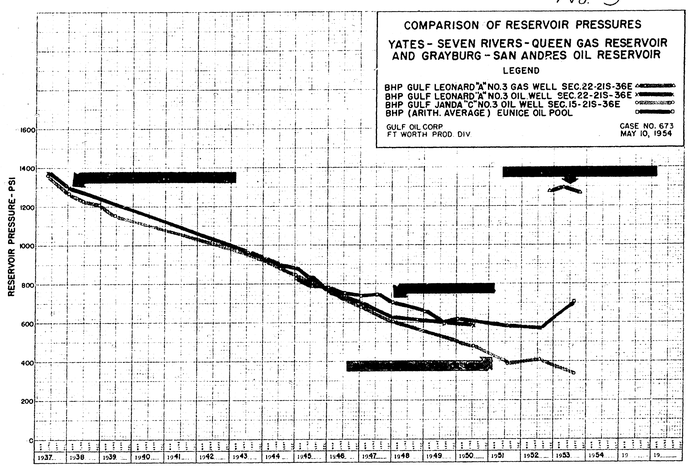
YATES - SEVEN RIVERS - QUEEN GAS RESERVOIR AND GRAYBURG - SAN ANDRES OIL RESERVOIR

LEGEND

BHP GULF LEONARD "A" NO.3 GAS WELL SEC.22-21S-36E
BHP GULF LEONARD "A" NO.3 OIL WELL SEC.22-21S-36E
BHP GULF JANDA "C" NO.3 OIL WELL SEC.15-21S-36E
BHP (ARITH. AVERAGE) EUNICE OIL POOL

GULF OIL CORP
FT WORTH PROD DIV

CASE NO. 673
MAY 10, 1954



No. 10

COMPARISON OF RESERVOIR PRESSURES

YATES - SEVEN RIVERS - QUEEN GAS RESERVOIR AND GRAYBURG - SAN ANDRES OIL RESERVOIR

LEGEND

BHP GULF RAMSAY "B" NO.2 GAS WELL SEC.25-21S-36E
BHP GULF RAMSAY "B" NO.1 OIL WELL SEC.25-21S-36E
BHP HUMBLE STATE "G" NO.2 OIL WELL SEC.26-21S-36E
BHP (ARITH. AVERAGE) ARROWHEAD OIL POOL

GULF OIL CORP.
FT WORTH PROD. DIV.

CASE NO. 673
MAY 10, 1954

No. 11

COMPARISON OF RESERVOIR PRESSURES

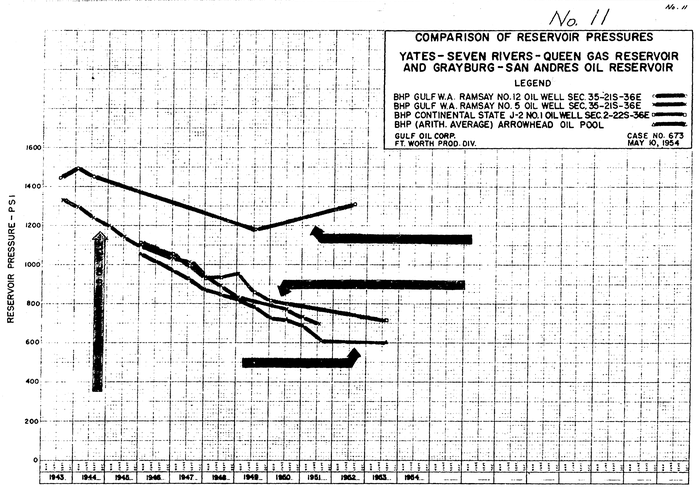
YATES - SEVEN RIVERS - QUEEN GAS RESERVOIR AND GRAYBURG - SAN ANDRES OIL RESERVOIR

LEGEND

BHP GULF W.A. RAMSAY NO.12 OIL WELL SEC 35-21S-36E
BHP GULF W.A. RAMSAY NO. 5 OIL WELL SEC. 35-21S-36E
BHP CONTINENTAL STATE J-2 NO.1 OIL WELL SEC 2-22S-36E
BHP (ARITH. AVERAGE) ARROWHEAD OIL POOL

GULF OIL CORP.
FT. WORTH PROD. DIV.

CASE NO. 673
MAY 10, 1954



187

RECOMMENDED GAS POOL BOUNDARIES
SOUTHEAST LEA COUNTY, NEW MEXICO

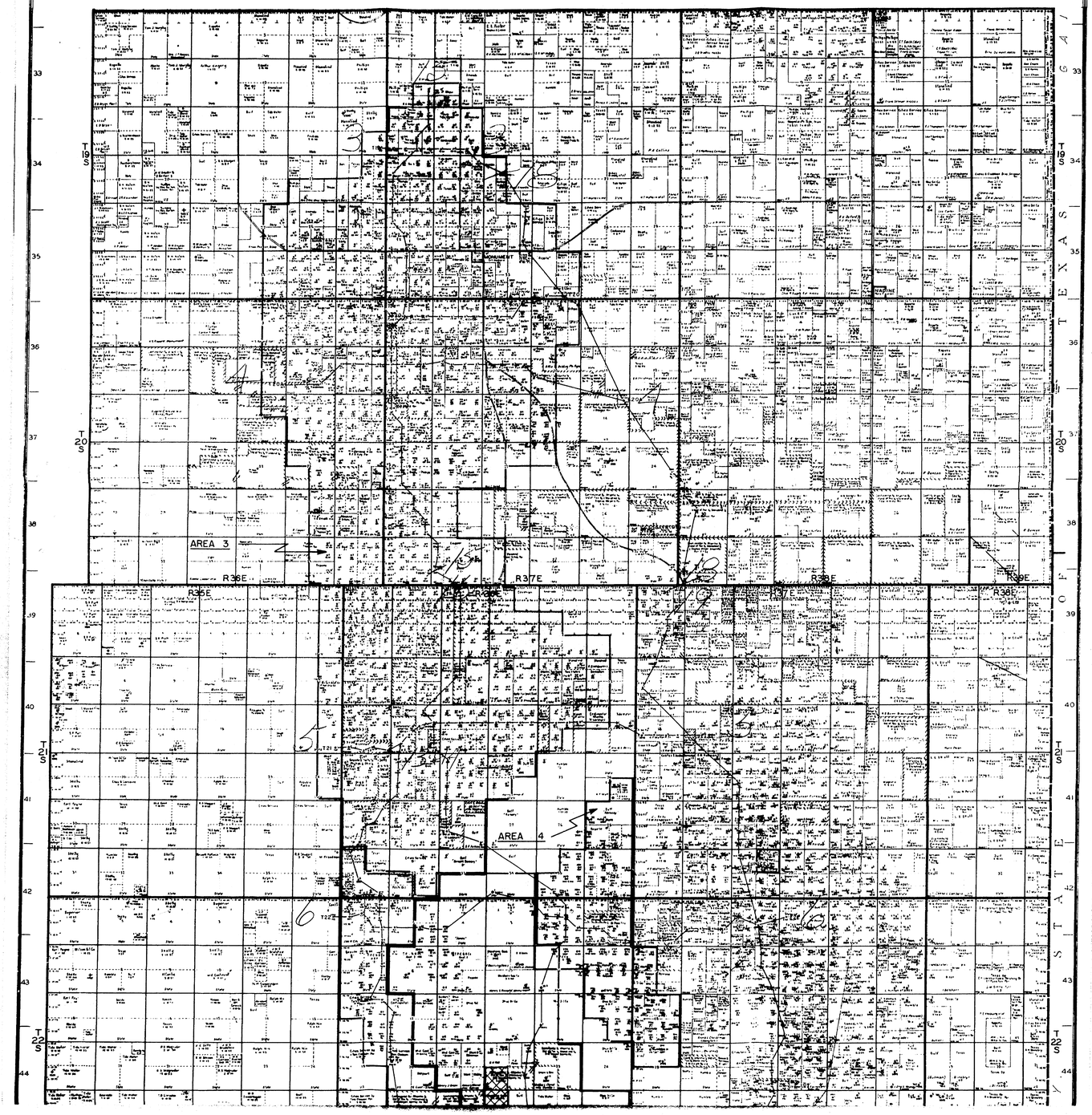
CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT

DRAWN	BY M. W. CO.	SCALE	1" = 4000'
CHECKED		DATE	
APPROVED		SHEET	OF
REVISIONS			

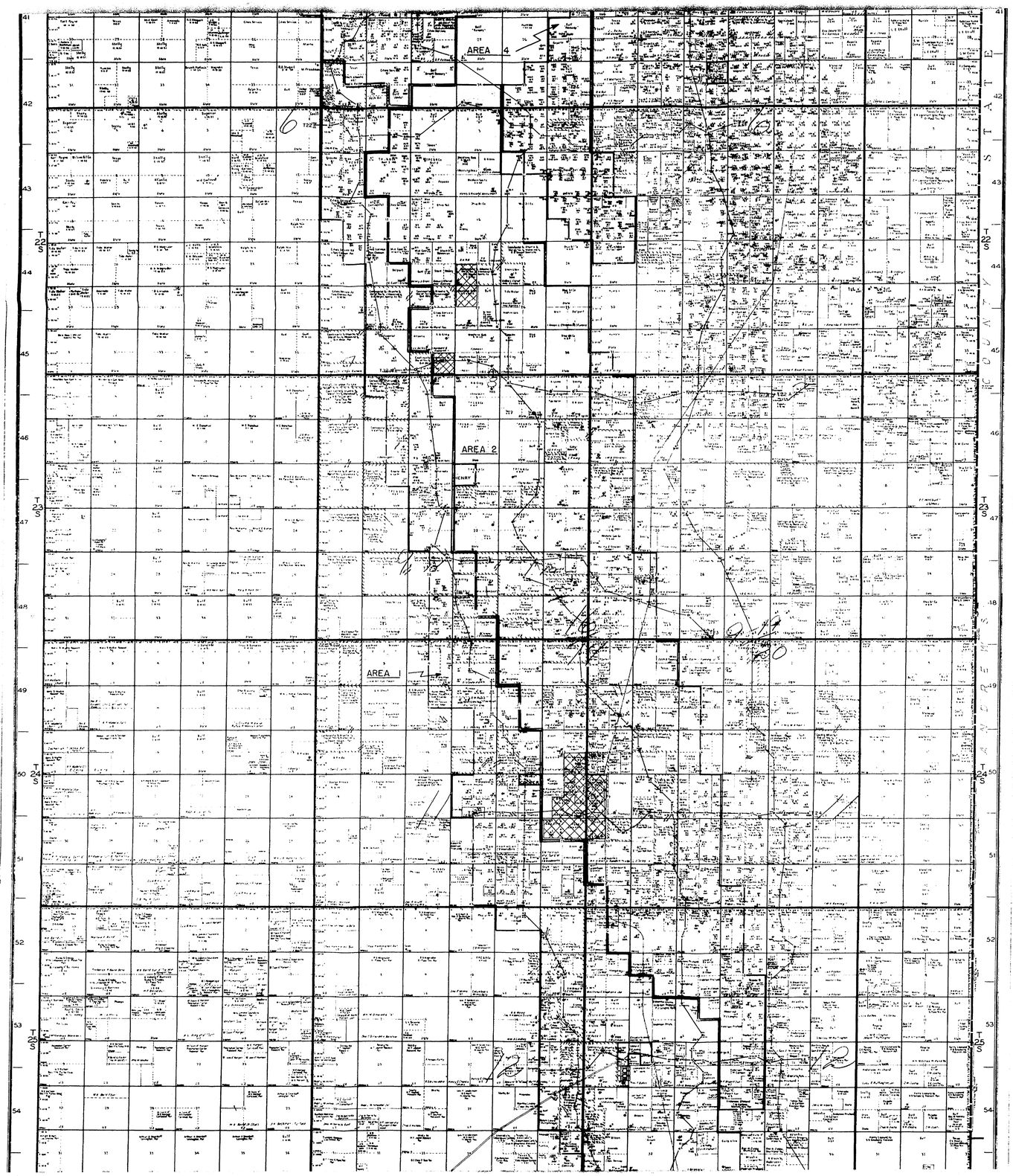
BASE MAP OBTAINED FROM
ZINGERY MAPPING CO

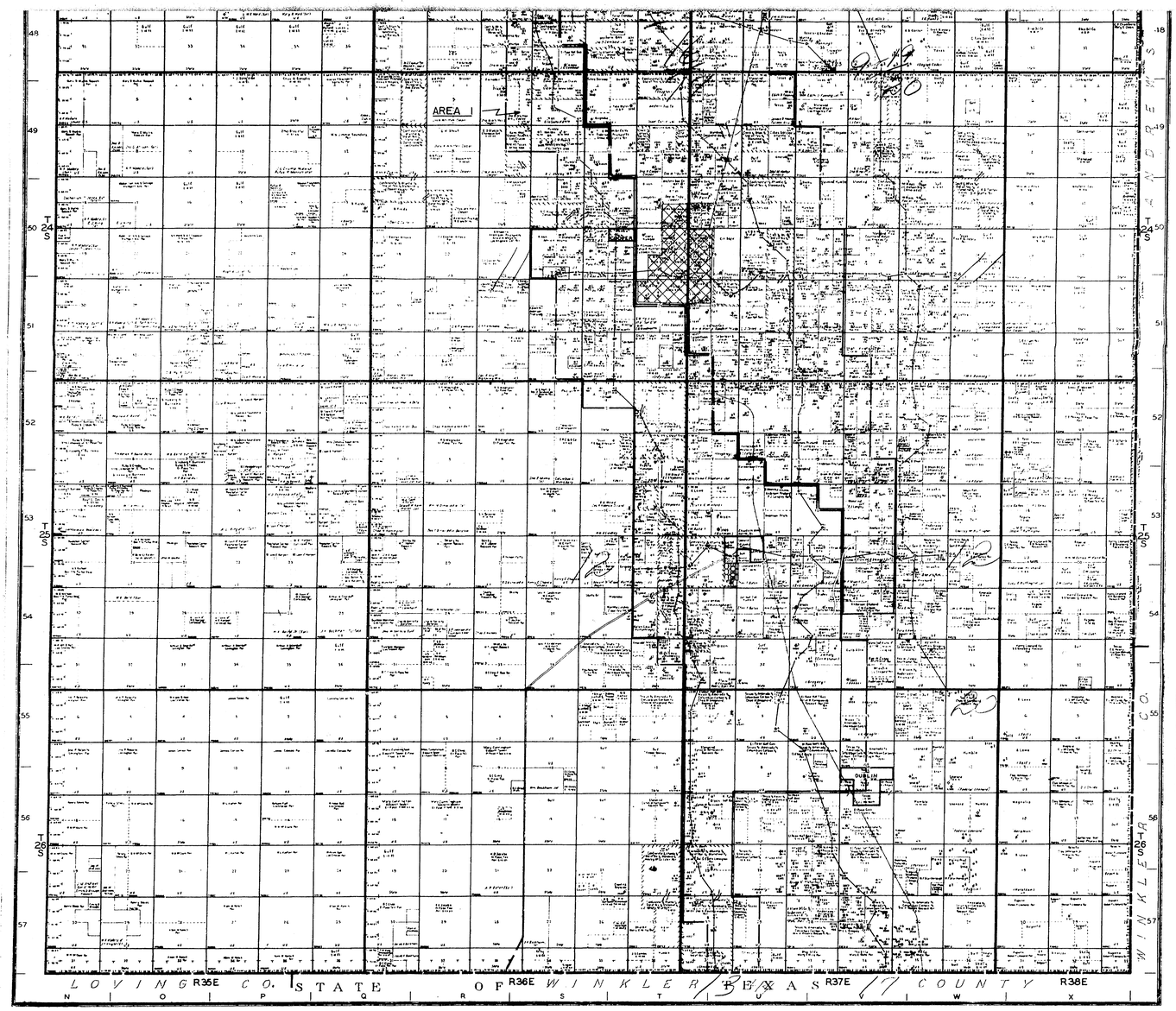
Conoco
Exh No. 2

188



189


AREA 4
AREA 2
AREA 1
HENRY
T 22 S
T 23 S
T 24 S
T 25 S
41
42
43
44
45
46
47
48
49
50
51
52
53
54
18
19
20


AREA I
T 24 S
T 25 S
T 26 S
R35E
R36E
R37E
R38E
LOVING CO.
STATE OF TEXAS
WINKLER COUNTY
WINKLER CO.
ANDREWS
N
O
P
Q
R
S
T
U
V
W
X

190

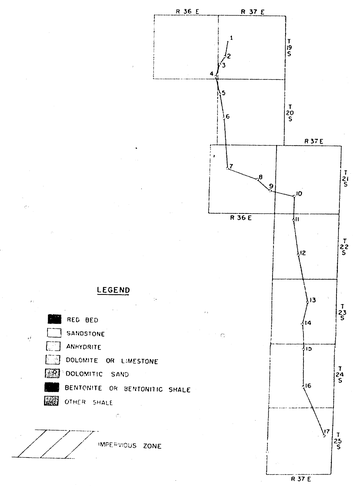
NORTH - SOUTH STRATIGRAPHIC SECTION

THROUGH SOUTHEASTERN NEW MEXICO

APRIL 7, 1954

SCALE

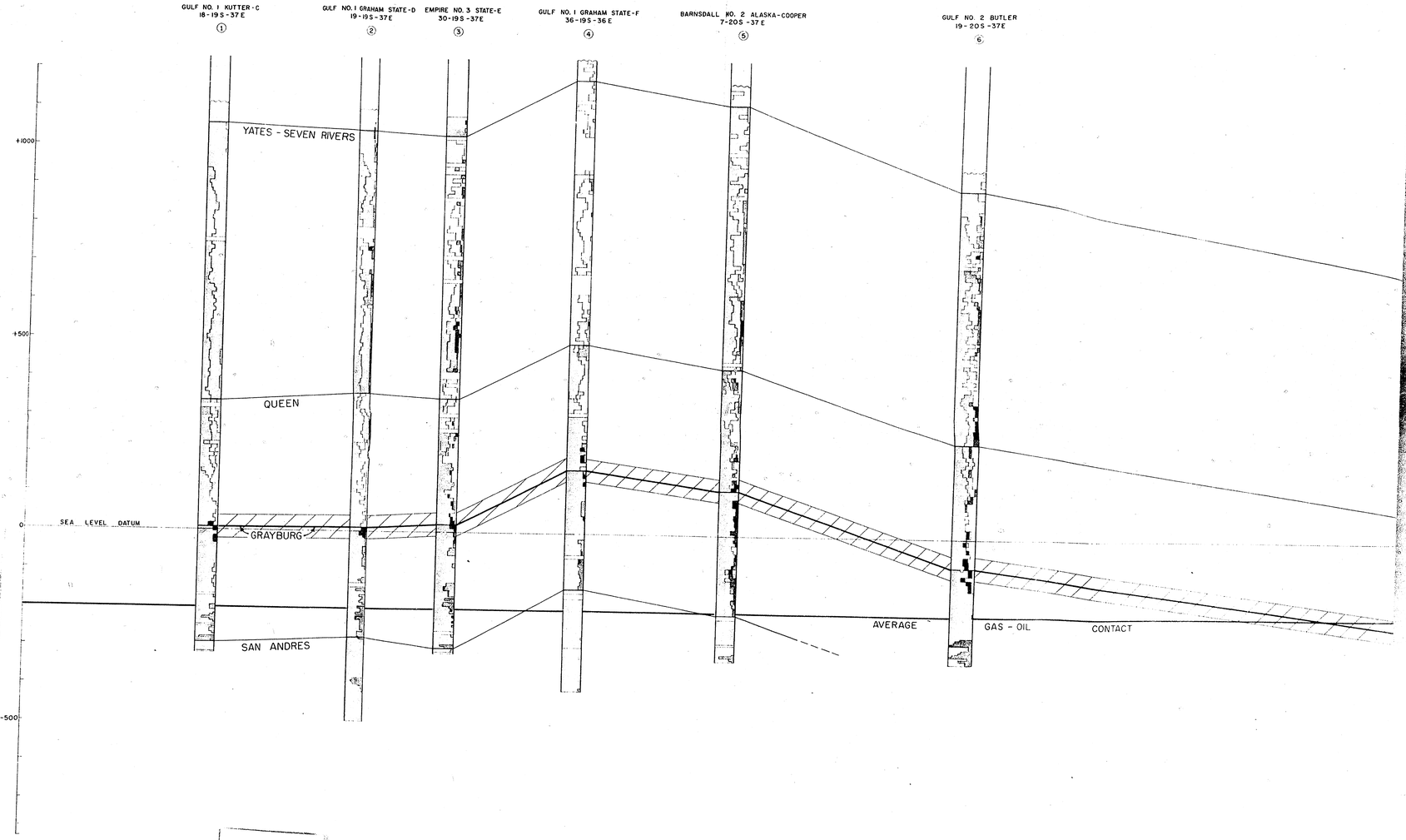
HORIZONTAL SCALE ——————— 1 INCH = 2000 FEET
VERTICAL SCALE ——————— 1 INCH = 100 FEET



LEGEND

- RED BED
- SANDSTONE
- ANHYDRITE
- DOLOMITE OR LIMESTONE
- DOLOMITIC SAND
- BENTONITE OR BENTONITIC SHALE
- OTHER SHALE
- IMPERVIOUS ZONE

No. 2



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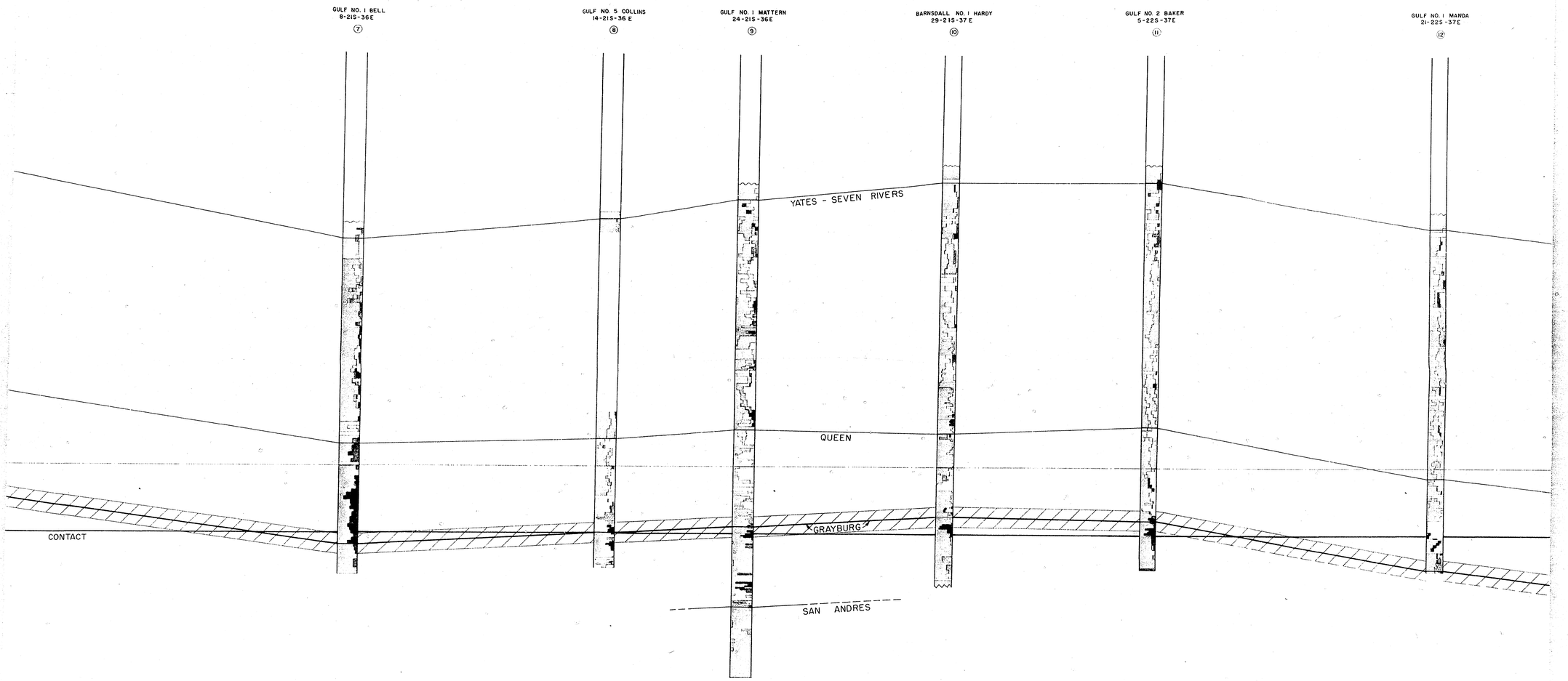
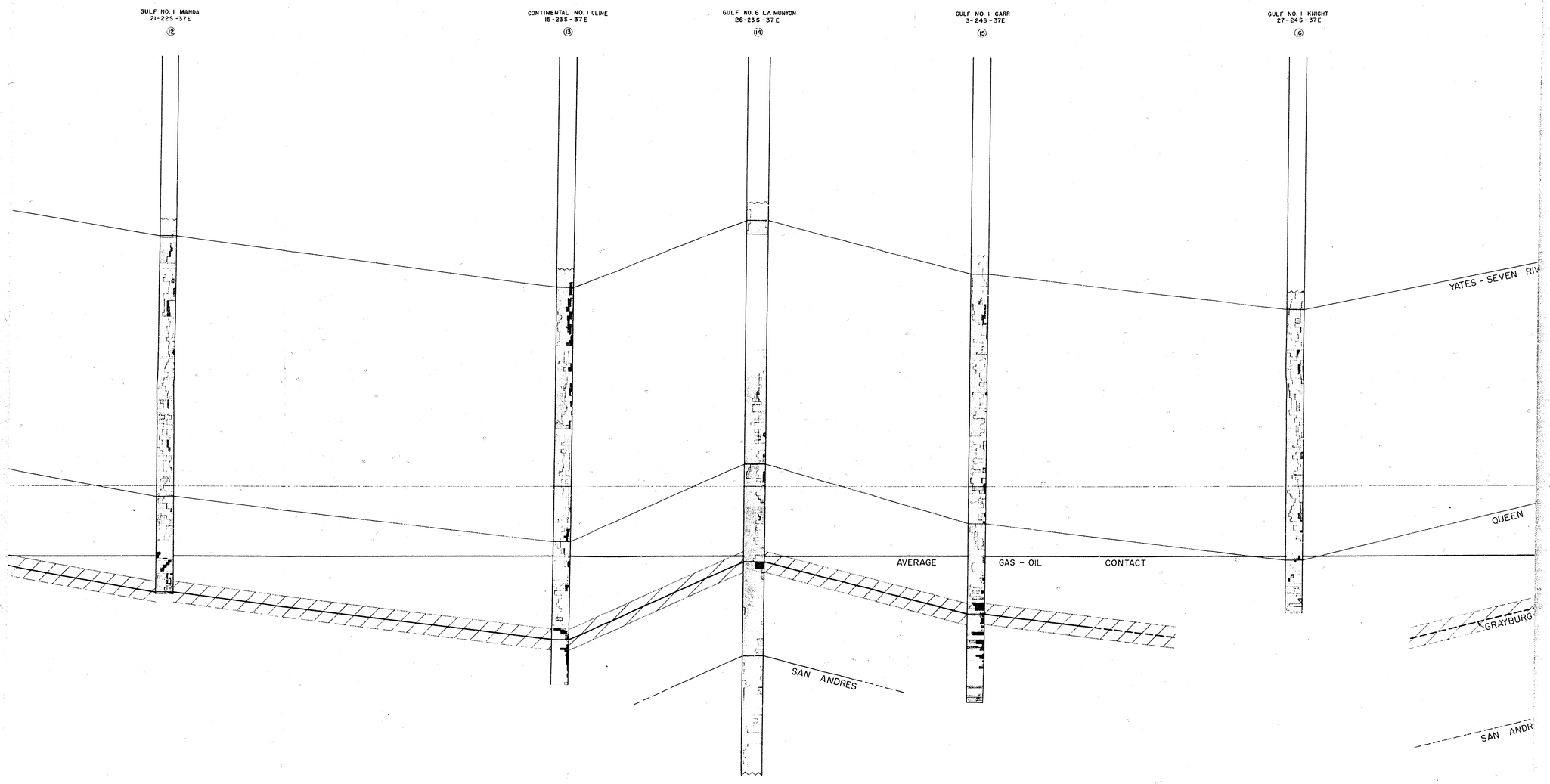
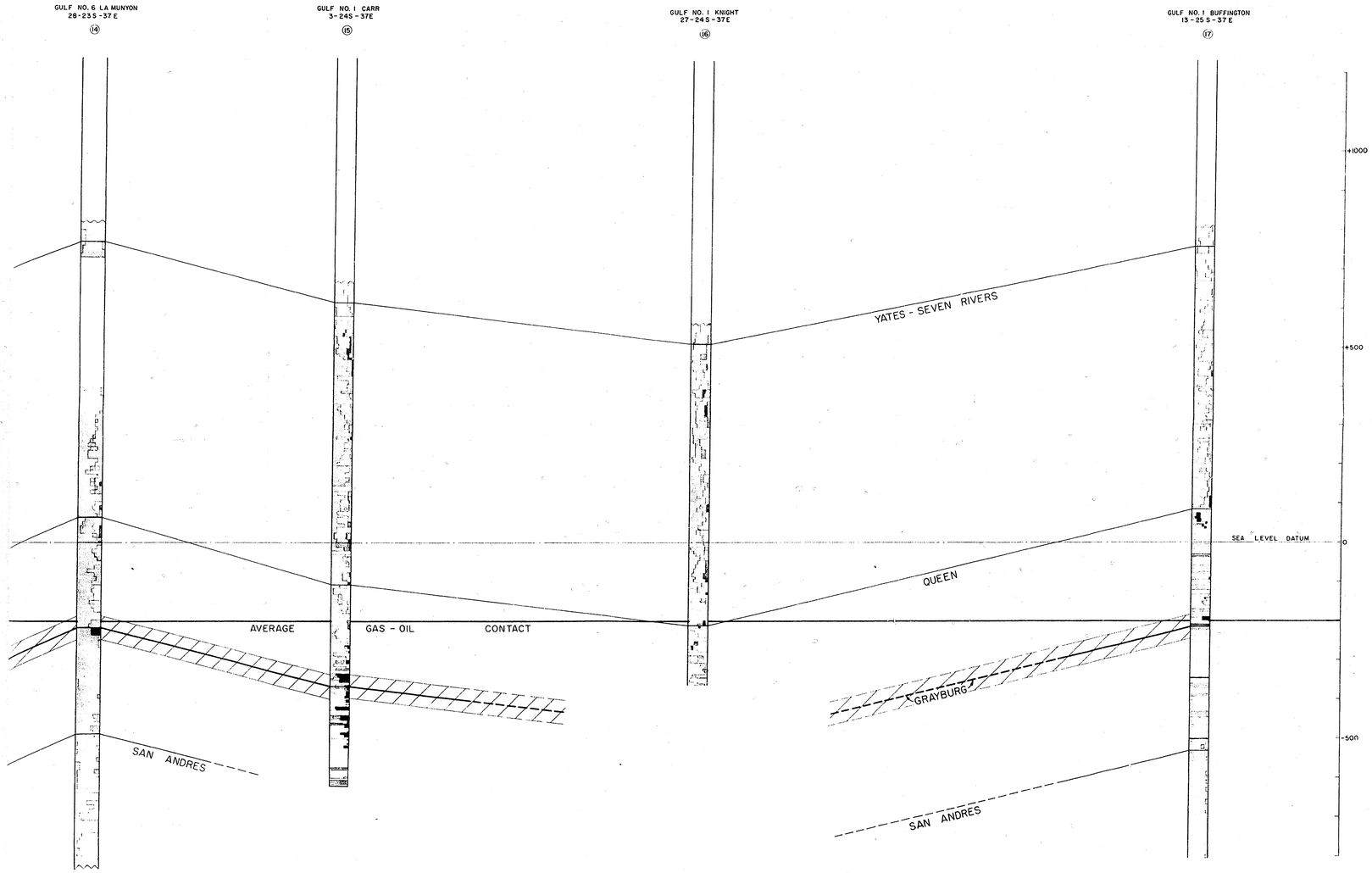
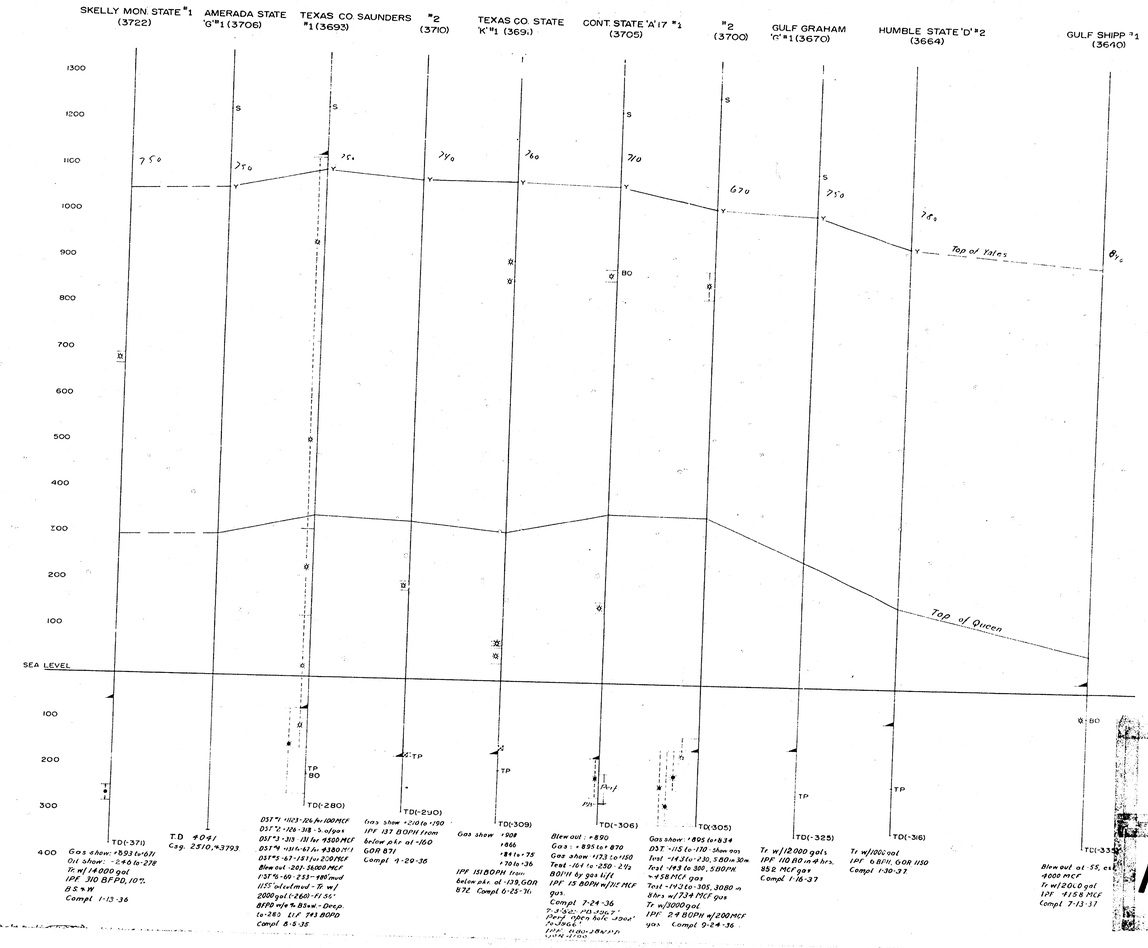

GULF NO. 1 BELL
8-21S-36E
⑦
GULF NO. 5 COLLINS
14-21S-36E
⑧
GULF NO. 1 MATTERN
24-21S-36E
⑨
BARNSDALL NO. 1 HARDY
29-21S-37E
⑩
GULF NO. 2 BAKER
5-22S-37E
⑪
GULF NO. 1 MANDA
21-22S-37E
⑫
YATES - SEVEN RIVERS
QUEEN
GRAYBURG
CONTACT
SAN ANDRES


GULF NO. 1 MANDA
21-22S-37E
(12)
CONTINENTAL NO. 1 CLINE
15-23S-37E
(13)
GULF NO. 6 LA MUNYON
28-23S-37E
(14)
GULF NO. 1 CARR
3-24S-37E
(15)
GULF NO. 1 KNIGHT
27-24S-37E
(16)
YATES - SEVEN RIV
QUEEN
AVERAGE
GAS - OIL
CONTACT
GRAYBURG
SAN ANDRES
SAN ANDR


GULF NO. 6 LA MUNYON
28-23S-37E
(14)
GULF NO. 1 CARR
3-24S-37E
(15)
GULF NO. 1 KNIGHT
27-24S-37E
(16)
GULF NO. 1 BUFFINGTON
13-25S-37E
(17)
+1000
+500
0
-500
SEA LEVEL DATUM
YATES - SEVEN RIVERS
QUEEN
GRAYBURG
SAN ANDRES
AVERAGE GAS - OIL CONTACT
SAN ANDRES



EAST-WEST SECTION T-19

Scale: Vertical 1" = 100'
Horizontal 1" = 600'

LEGEND

Top of Yates	Y
Base of Salt	S
No Show	NS
Gas Show	G
Oil Show	•
Oil and Gas Show	•
Casing	
Sulphur Water	SulW
Salt Water	Ow
Tubing Packer	
Total Depth	T D
Plug Back Depth	PBD
Tested Interval w/Show of Oil	•
Shot Interval w/240 qts.	(240)
Perforated Interval	Perf
Liner	Top / Bottom
Lost Circulation	LC
Blow Out	BO

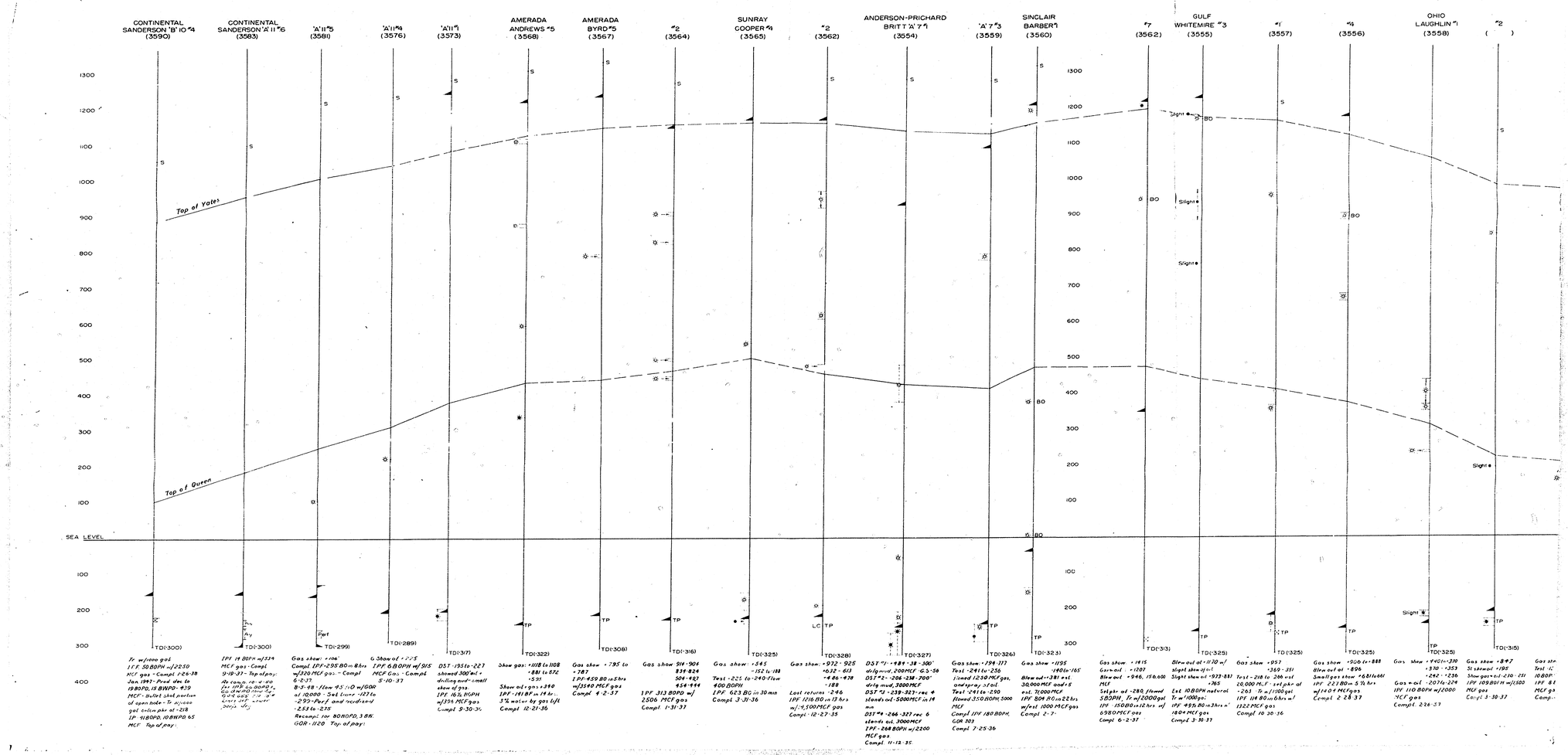
SCALES

Horizontal 1" = 600'

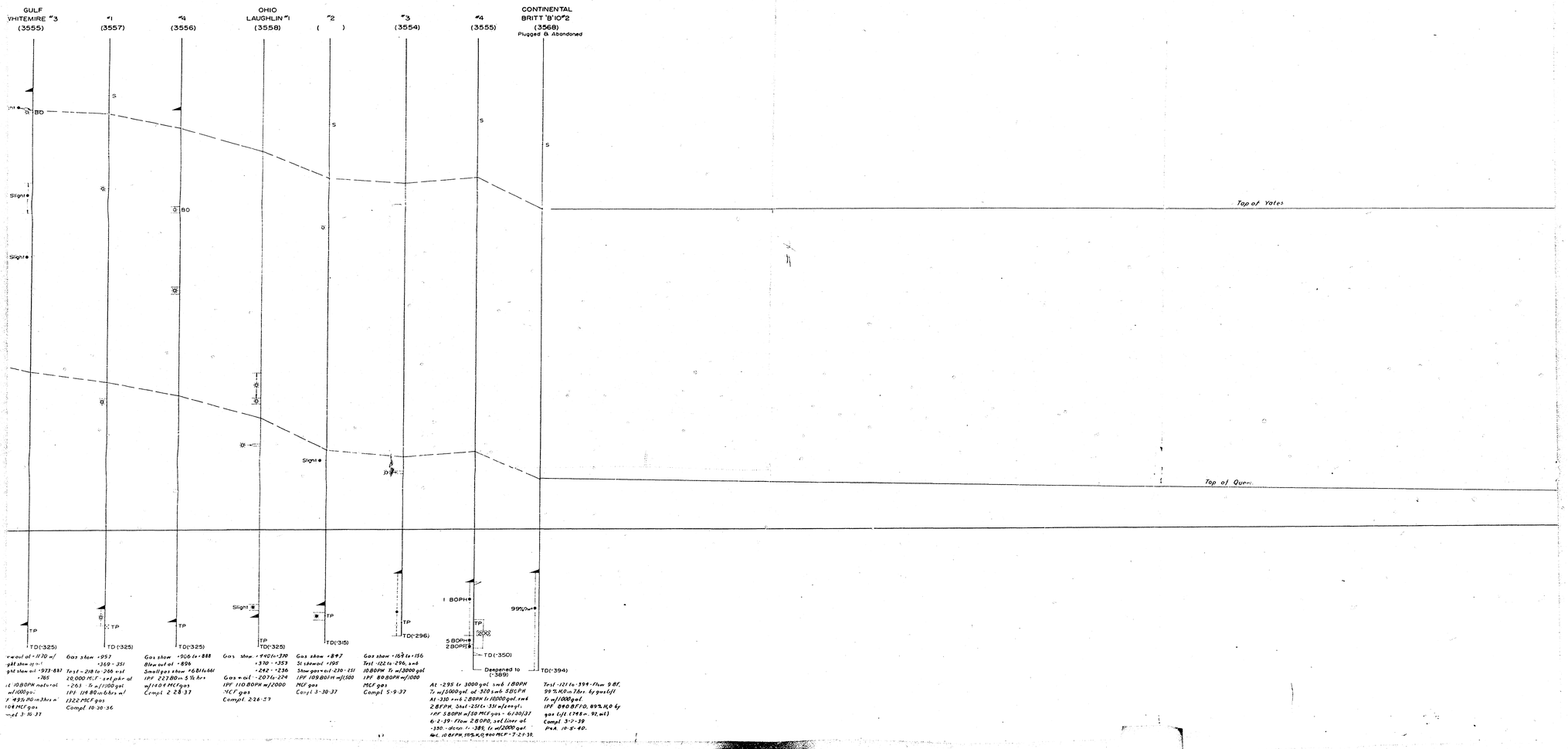
Vertical 1" = 100'

EXH. NO. 3

195


CONTINENTAL SANDERSON 'B' IO #4 (3590)
CONTINENTAL SANDERSON 'A' II #6 (3583)
'A' II #5 (3581)
'A' II #4 (3576)
'A' II #1 (3573)
AMERADA ANDREWS #5 (3568)
AMERADA BYRD #5 (3567)
#2 (3564)
SUNRAY GOOPER #4 (3565)
#2 (3562)
ANDERSON-PRICHARD BRITT 'A' 7 #1 (3554)
'A' 7 #3 (3559)
SINCLAIR BARBER #1 (3560)
#7 (3562)
GULF WHITEMIRE #3 (3555)
#1 (3557)
#4 (3556)
OHIO LAUGHLIN #1 (3558)
#2 ( )
Top of Yates
Top of Queen
SEA LEVEL
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
TD(-300)
TD(-299)
TD(-289)
TD(-317)
TD(-322)
TD(-308)
TD(-316)
TD(-325)
TD(-328)
TD(-327)
TD(-326)
TD(-323)
TD(-313)
TD(-325)
TD(-325)
TD(-325)
TD(-325)
TD(-315)
Slight
80
Part
Any
TP
LC
S
T
Tr w/show gas
IFP 50 BOPH w/2250 MCF gas - Compl. 1-26-38
Jan. 1997 - Prod. dec. to 19 BOPD, 15 BWPD - 939 MCF - Outlet shut portion of open hole - Tr. w/show gas, below pkr. at -218
IP - 9 BOPD, 10 BWPD, 65 MCF. Top of pay.
IPF 14 BOPH w/534 MCF gas - Compl. 9-19-37 - Top of pay.
Re-comp. 10-4-60 for IPF 19 BOPD w/ Gty 43 API, no GOR, no WC, TP 1400#, Csg 2400#, 20/64" ck, 24 hrs. Perfs 289-300. Perfs 289-299 w/ 2 shots/ft.
Gas show: +106' Compl. IPF-295 BO in 8 hrs w/320 MCF gas. - Compl 6-2-37.
8-2-38 - Ran 45 jts 10 w/600 at 10000 - Set liner -127 to -293 - Perf. and reciprocated -233 to -273
Recompl. for 80 BOPD, 3 BW, GOR-1120 Top of pay.
Gas show of +275 IPF 88 BOPH w/915 MCF Gas - Compl. 5-10-37
DST -195 to -227 showed 300' ml + drilling mud - small show of gas.
IPF 16½ BOPH w/376 MCF gas
Compl. 9-30-36
Show gas: +1118 to 1108 +881 to 872 +531
Show oil + gas + 390
IPF -141 BF in 14 hr., 3% water by gas lift
Compl. 10-21-36
Gas show +795 to +787
IP F-459 BO in 5 hrs w/3540 MCF gas
Compl. 4-2-37
Gas show 918-904 839-824 504-487 454-444
IPF 313 BOPD w/ 2506 MCF gas
Compl. 1-31-37
Gas show +545 -152 to -188
Test -225 to -240 Flow 400 BOPH
IPF 623 BO in 30 min
Compl. 3-31-36
Gas show: +972 - 925 +632 - 613 +466 - 430 -188
Lost returns -246
IPF 1178 BO in 13 hrs w/ +1,500 MCF gas
Compl. 12-27-36
DST #1 +884 -38 - 300' drlg mud, 200 MCF GTS in 56
DST #2 -206 -238 -700' drlg mud, 3000 MCF
DST #3 -239 -323 - rec 4 stands oil - 5000 MCF in 14 min.
DST #4 -266 -327 rec 6 stands oil, 7000 MCF
IPF - 268 BOPH w/2200 MCF gas
Compl. 11-12-36
Gas show +794-777
Test -2941 to -256
Flowed 1230 MCF gas, and spray of oil
Test -241 to -290
Flowed 350 BOPH, 5000 MCF
Compl IPF 180 BOPH, GOR 383
Compl. 7-25-36
Gas show +1195 +906 to -165
Blew out +281 est. 30,000 MCF and +5 est. 71,000 MCF
IPF 804 BO in 22 hrs w/est 1000 MCF gas
Compl 2-7-
Gas show +1415
Gas out +1207
Blew out +946, 158,000 MCF
Salpho oil -280, flowed 3:30 PM. Tr w/2000 gal
IPF - 150 BO in 12 hrs w/ 698 0 MCF gas
Compl 6-2-37
Blew out of +1170 w/ slight show of oil
Slight show oil +973-837 +765
Est. 10 BOPH natural
Tr w/ 1000 gal.
IPF 49% BO in 3 hrs w/ 1804 MCF gas
Compl 3-30-37
Gas show +957 +360 - 351
Test - 218 to -266 w/c
20,000 MCF - set pkr at -263 - Tr. w/ 1100 gal
IPF 114 BO in 6 hrs w/ 1322 MCF gas
Compl 10-20-36
Gas show +906 to +888
Blew out of +896
Small gas show +681 to 661
IPF 222 BO in 5½ hrs w/ +104 MCF gas
Compl 2-28-37
Gas show +940 to +370 +370 - +353 +262 - +236
Gas + oil -207 to -226
IPF 110 BOPH w/ 2000 MCF gas
Compl. 2-26-37
Gas show +842 St show oil +195
Show gas + oil -210 - 251
IPF 109 BO/H w/1500 MCF gas
Compl 3-30-37
Gas sh
Test -1
10 BOP
IPF 8
MCF g
Compl

196



...r oil at -270 w/ ...ght show oil -273-283 -265 ...t 10 BOPH natural w/1000 go. ...F 435,110 w/3 hrs n 104 MCF gas ...ted 3-16-37

Gas show -257 -369 - 351
Test -218 to -266 wst 20,000 MCF w/ght of -263 To w/1000 gal IPF 114 BO w/6 hrs w/ 1322 MCF gas
Compl 10-20-36

Gas show -906 to -888
Blew out at -896
Small gas show +681 to 661
IPF 223 BO w/ 5 1/2 hrs w/1404 MCF gas
Compl 2-28-37

Gas show -940 to -390
-370 - -353
-242 - -236
Gas w/ oil - 2076-229
IPF 110 BOPH w/2000 MCF gas
Compl. 2-26-37

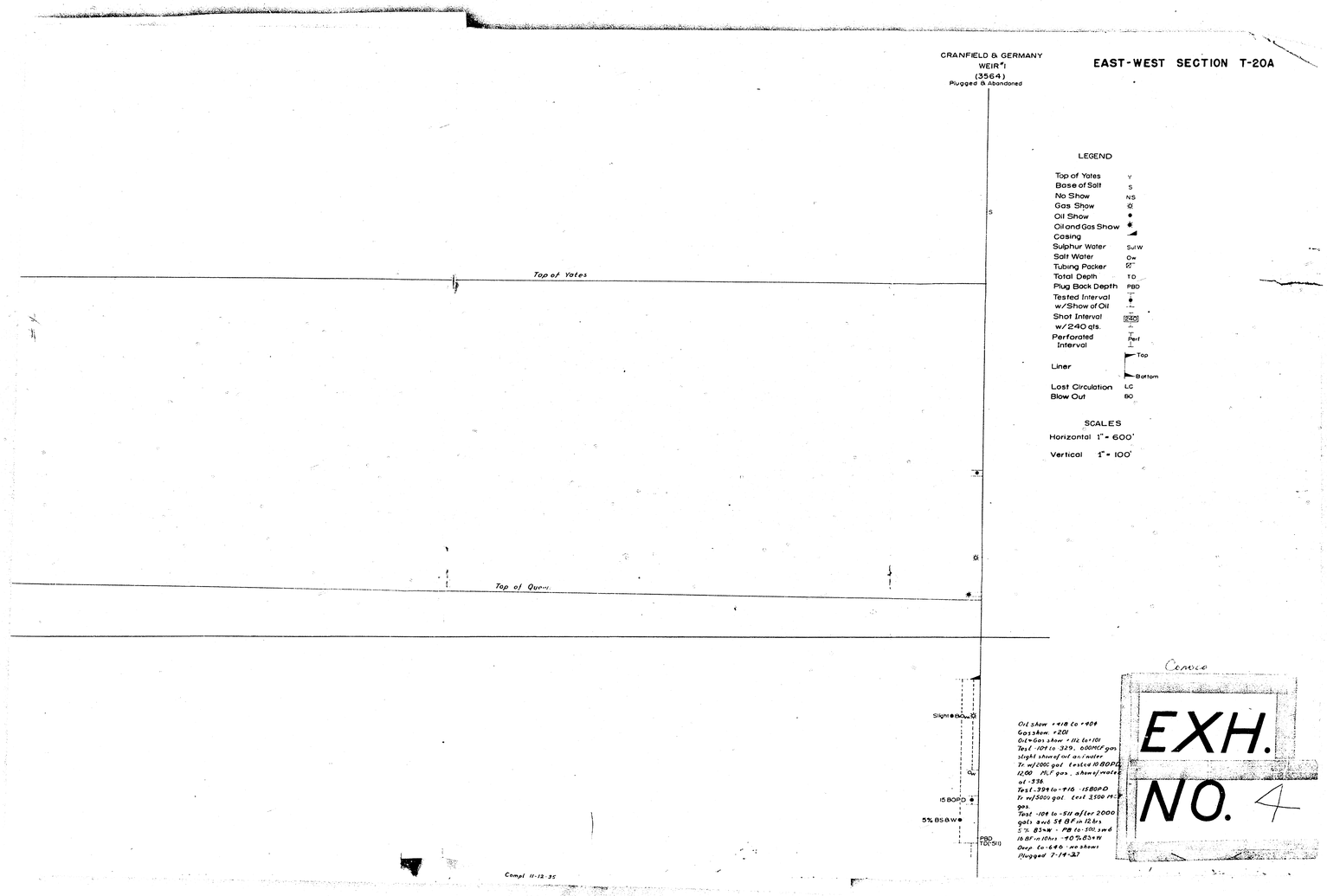
Gas show +897
Sl. steam at -195
Show gas w/ cut -230 - 231
IPF 109 BOPH w/1500 MCF gas
Compl 3-30-37

Gas show -149 to -156
Test -122 to -296, wtr
10 BOPH To w/3000 gal
IPF 88 BOPH w/1000 MCF gas
Compl 5-9-37

At -295 to 3000 gal. wtr & 1 BOPH
To w/5000 gal. of 32.0 wtr & 5 BOPH
At -330 wtr & 2 BOPH to 10000 gal. wtr & 2 BFPH. Shut -251 to -331 w/empty.
IPF 5 BOPH w/150 MCF gas - 6/30/37
6-2-39 - Flow 2 BOPD, set liner at -330. - deep to -389, to w/2000 gal. Rec. 10 BFPH, 10% K, 0, 900 MCF - 7-21-39.

Test -121 to -394 - Flow 9 Bf, 99% H2O in Thru by gas lift To w/1000 gal. IPF 840 BF/10, 89% H2O by gas lift (748 - 92, wtr)
Compl. 9-7-39
P&A. 10-5-40.

197



EAST-WEST SECTION T-20A

LEGEND

Top of Yates	Y
Base of Salt	S
No Show	NS
Gas Show	
Oil Show	
Oil and Gas Show	
Casing	
Sulphur Water	Sul W
Salt Water	Ow
Tubing Packer	
Total Depth	TD
Plug Back Depth	PBD
Tested Interval w/Show of Oil	
Shot Interval w/240 qts.	240
Perforated Interval	Perf
Liner	Top / Bottom
Lost Circulation	LC
Blow Out	BO

SCALES

Horizontal 1" = 600'

Vertical 1" = 100'

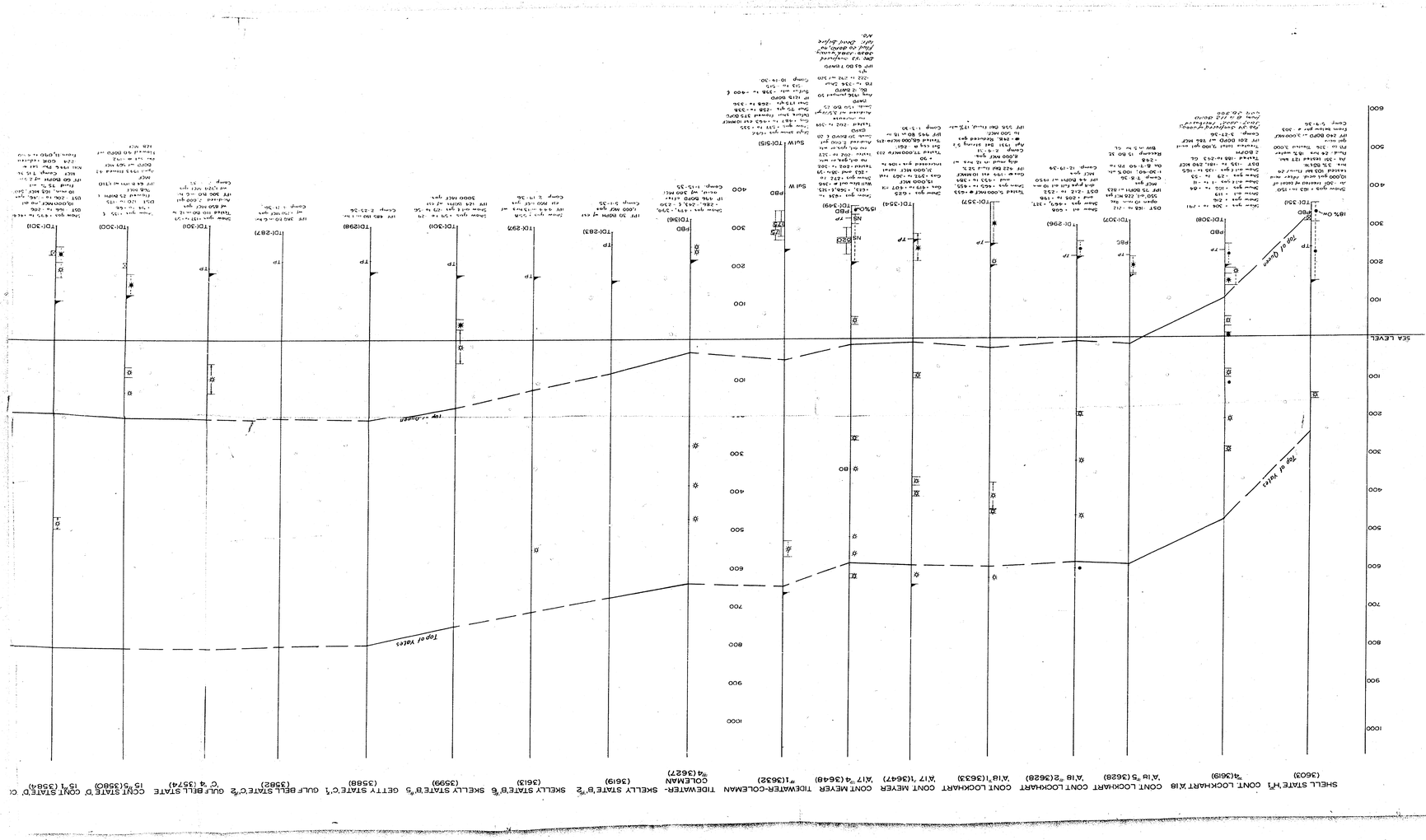
Oil show +418 to +404
Gas show +201
Oil + Gas show +112 to +101
Test -104 to -329, 600 MCF gas
slight show of oil and water
Tr. w/2000 gal tested 10 BOPD
1200 MCF gas, show of water
at -336
Test -394 to -416 -15 BOPD
Tr w/5000 gal. test 3500 MCF
gas.
Test -104 to -511 after 2000
gals swb 54 BF in 12 hrs
5% BS&W - PB to -500, swb
16 BF in 10 hrs -40% BS&W
Deep to -646 - no shows
Plugged 7-14-37

Conoco

EXH. NO. 4

198

199


SEA LEVEL
SHELL STATE "F" 1 (3603)
CONT. LOCKHART A-18 "4 (3619)
CONT. LOCKHART A-18 "5 (3628)
CONT. LOCKHART A-18 "2 (3628)
CONT. LOCKHART A-17 "1 (3633)
CONT. MEYER A-17 "4 (3648)
CONT. MEYER A-17 "1 (3647)
TIDEWATER-COLEMAN "1 (3632)
TIDEWATER-COLEMAN "4 (3627)
SKELLY STATE B-18 "2 (3619)
SKELLY STATE B-6 (3613)
SKELLY STATE B-5 (3599)
GETTY STATE C-1 (3588)
GULF BELL STATE C-2 (3582)
GULF BELL STATE C-4 (3574)
CONT STATE D-5 (3580)
CONT STATE D-1 (3584)
Top of Upper
Top of Lower
Top of Valeo
Top of Dynamo

TE'B' #6 | SKELLY STATE 'B' #5 (3599) | GETTY STATE 'C' #1 (3588) | GULF BELL STATE 'C' #2 (3582) | GULF BELL STATE 'C' #4 (3574) | CONT STATE 'D' 15 #5 (3580) | CONT STATE 'D' 15 #1 (3584) | CONT LOCKHART 'B' 14 #1 (3576) | GULF COLLINS #1 (3568) | GULF COLLINS #3 (3560) | CONT LOCKHART 'B' 14 #4 (3561) | TIDEWATER MARSHALL #1 (3555) Plugged and Abandoned | GULF MATTERN 'C' #3 (3527) | GULF MATTERN 'C' #2 (3519)

1000
900
800
700
600
500
400
300
200
100

Top of Yates

Top of Queen

Top of

100
200
300
400

TP

TD(-301)

Show gas +579 to +579
Show oil & gas +579 to +536
IPF 478 BOPH w/ 450 MCF gas
3000 MCF gas

TD(298)

IPF 480 BO w/ no wtr
Comp. 7-25-36

TD(-287)

IPF 380 BO w/ 6 bw w/ 1,750 MCF gas
Comp. 9-21-36

TD(-301)

Show gas +131 to +139
Tested 110 BO w/ 12 bw w/ 850 MCF gas
P. dated 2,000 gpd
IPF 306 BO w/ 6 bw w/ 1,329 MCF gas
Comp. 1-31-37

TD(-300)

Show gas +135 & +154 to +164
DST -120 to -175
Flowed 85 BOPH & TSTM MCF
IPF 64 BOPH w/ 1,310 MCF
April 1953 Flowed 43 BOPD w/ 569 MCF
Dec. test w -192.
Flowed 56 BOPD w/ 428 MCF

TD(-301)

Show gas +474 to +484
DST -146 to -206
10,000 MCF, no oil
DST -206 to -246, gas in 10 min, 105 MCF, 540
Fluid 75% oil
IPF 60 BOPH w/ 2,511 MCF Comp. 5-15-36
Mar. 1944 Pot. set @ -224. GOR reduced from 11,000 to 4,500

TD(204)

DST -102 to -144, 45 MCF gas, no oil
IPF 45 BOPH, 115 MCF
Comp. 5-6-36

Gun Kill, Gyro Survey
Comp. Via 8-8-37 10:45 PM

TD(-282)

Show gas +538, [illegible] +545 to +588
IPF 467 BO w/ 18 bw w/ 395 MCF
Comp. 3-16-36

TD(-300)

Treated 1,000 gal mud
Tested 60 BO + 8 bw
Retreat 2,000 gal mud
IPF 55 BO w/ 8 bw
Comp. 10-7-36

TD(-300)

Show gas +373 to 379
DST -139 to -179, no oil or gas
Shut -213 to -300 w/ 186 stks
IPF 25 BOPH w/ 1000 MCF

Perf
NS
NS
NS
NS
NS
220
240
260
1 BOPH

Sul W

TD(-450)

Show gas -33 to -60
DST -155 to -210 no oil or gas
DST -153 to -255 no oil or gas
DST -155 to -260 no oil or gas
DST -155 to -315 no oil or gas
Shut -264 to -314 w/ 240 gts Est 1 BOPH w/ 730 M.I
Test -122 to -407 Flow 1 BOPH by Gs to 450 Flow 40 Bs Sulfur water per hr.
PB -345 Shut -235 to -345 w/ 420 gts
Hot strg -33 to -62 Test 300 MCF no oil Shut -202 to -266 no oil
Plugged & abandoned 6-24-37

TD(-318)

Treated w/ 2000 gal. Reatreat w/ 200 & 4,000 gal
IPF 6 BOPD Comp 11-15-44

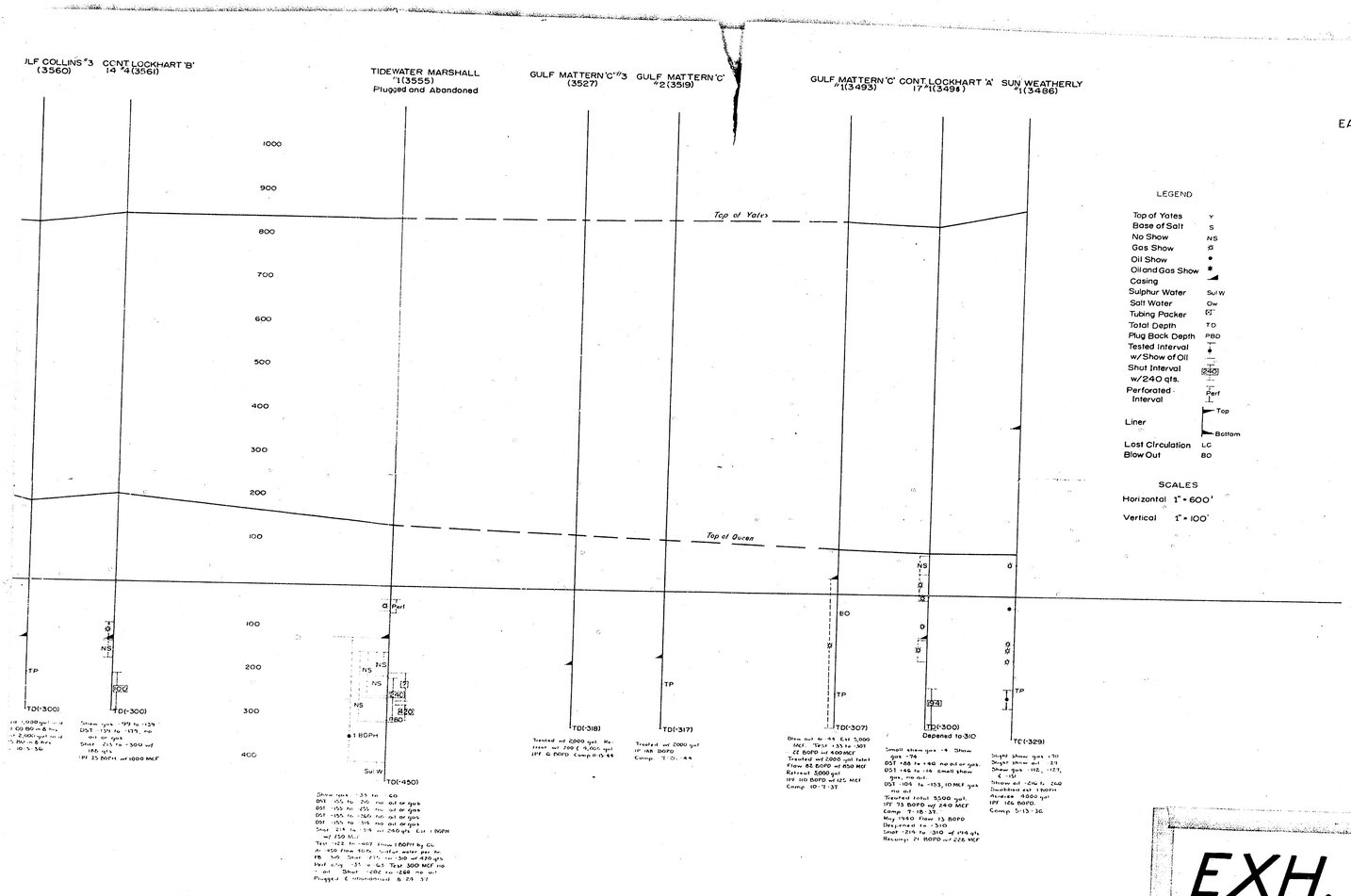
TD(-317)

Treated w/ 2000 gal
IP 48 BOPD
Comp. 7-21-44

200

EAST-WEST SECTION T-21

Scale Vertical 1" = 100'
Horizontal 1" = 600'



LEGEND

Top of Yates	Y
Base of Salt	S
No Show	NS
Gas Show	G
Oil Show	•
Oil and Gas Show	*
Casing	
Sulphur Water	Su W
Salt Water	Cw
Tubing Packer	
Total Depth	T D
Plug Back Depth	PBD
Tested Interval w/Show of Oil	
Shut Interval w/240 qts.	240
Perforated Interval	Perf
Liner	Top / Bottom
Lost Circulation	LC
Blow Out	BO

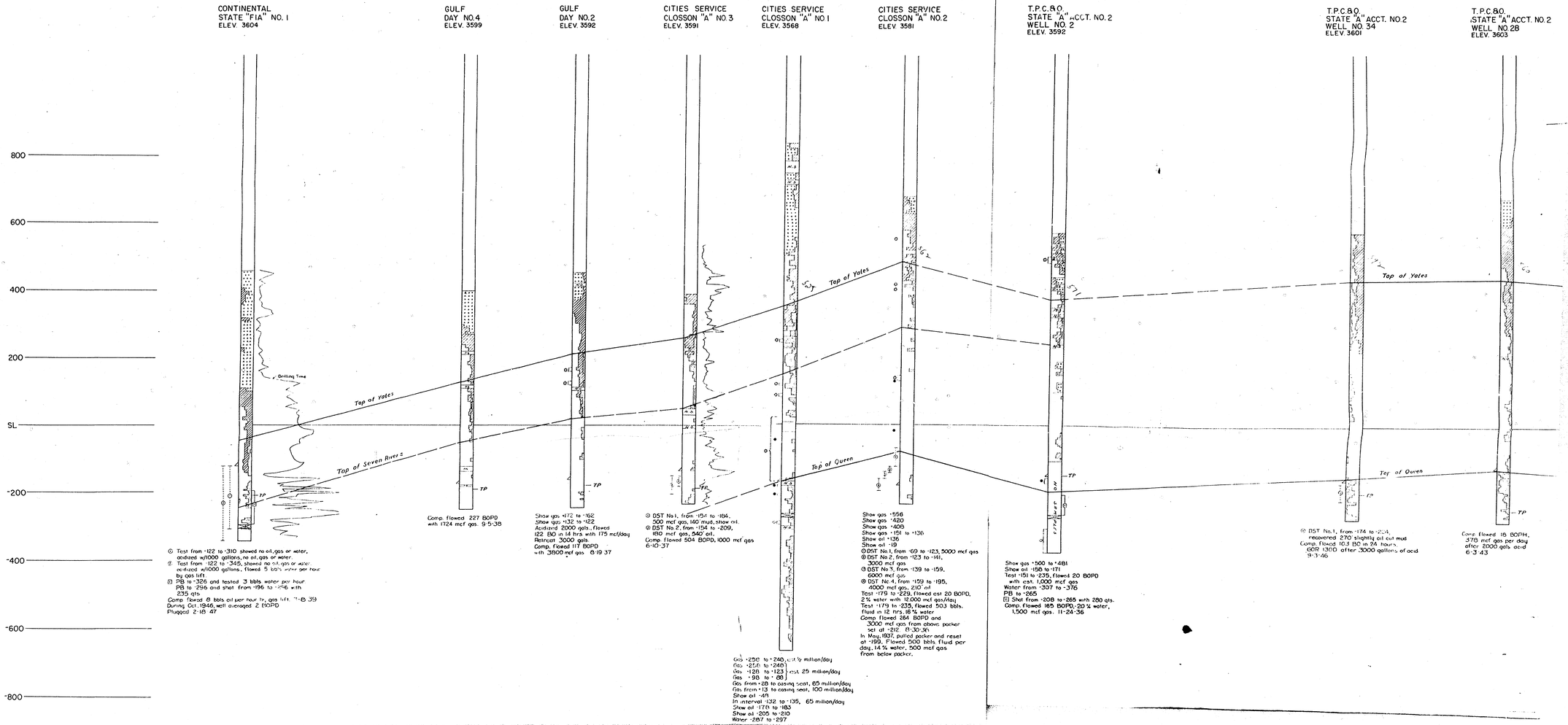
SCALES

Horizontal 1" = 600'

Vertical 1" = 100'

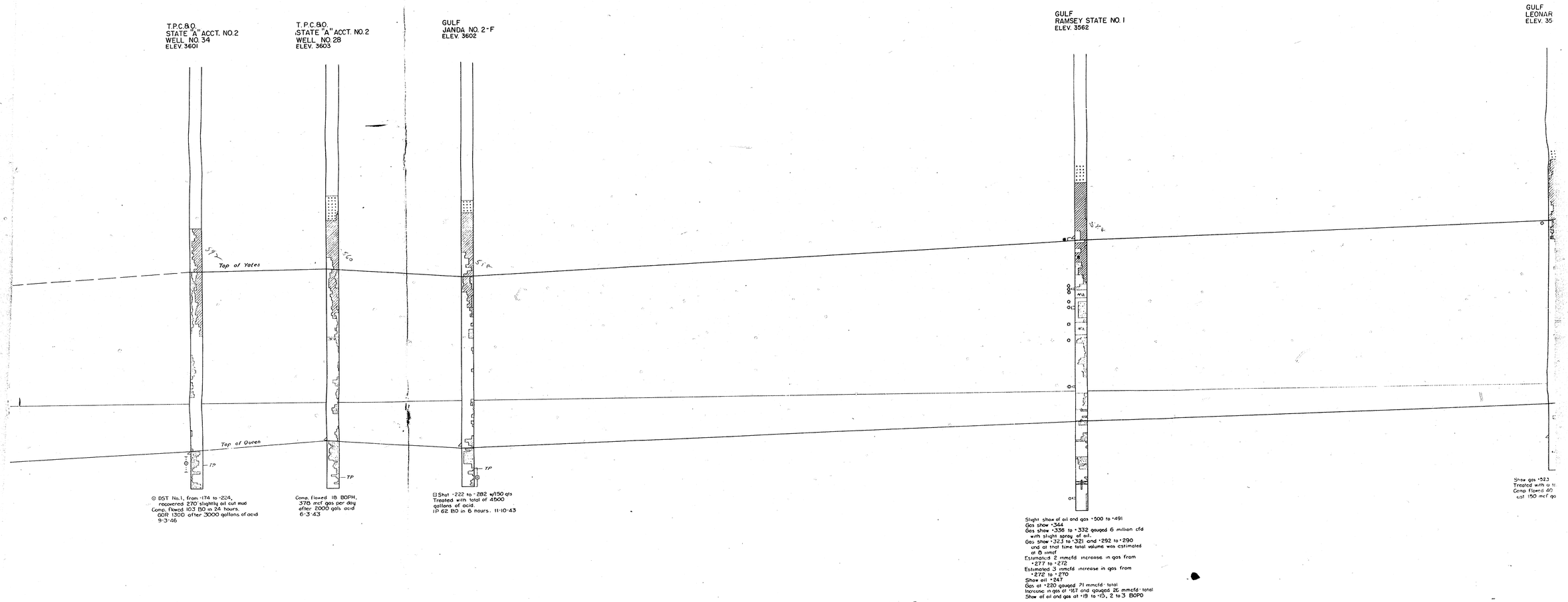
EXH. NO. 5

201

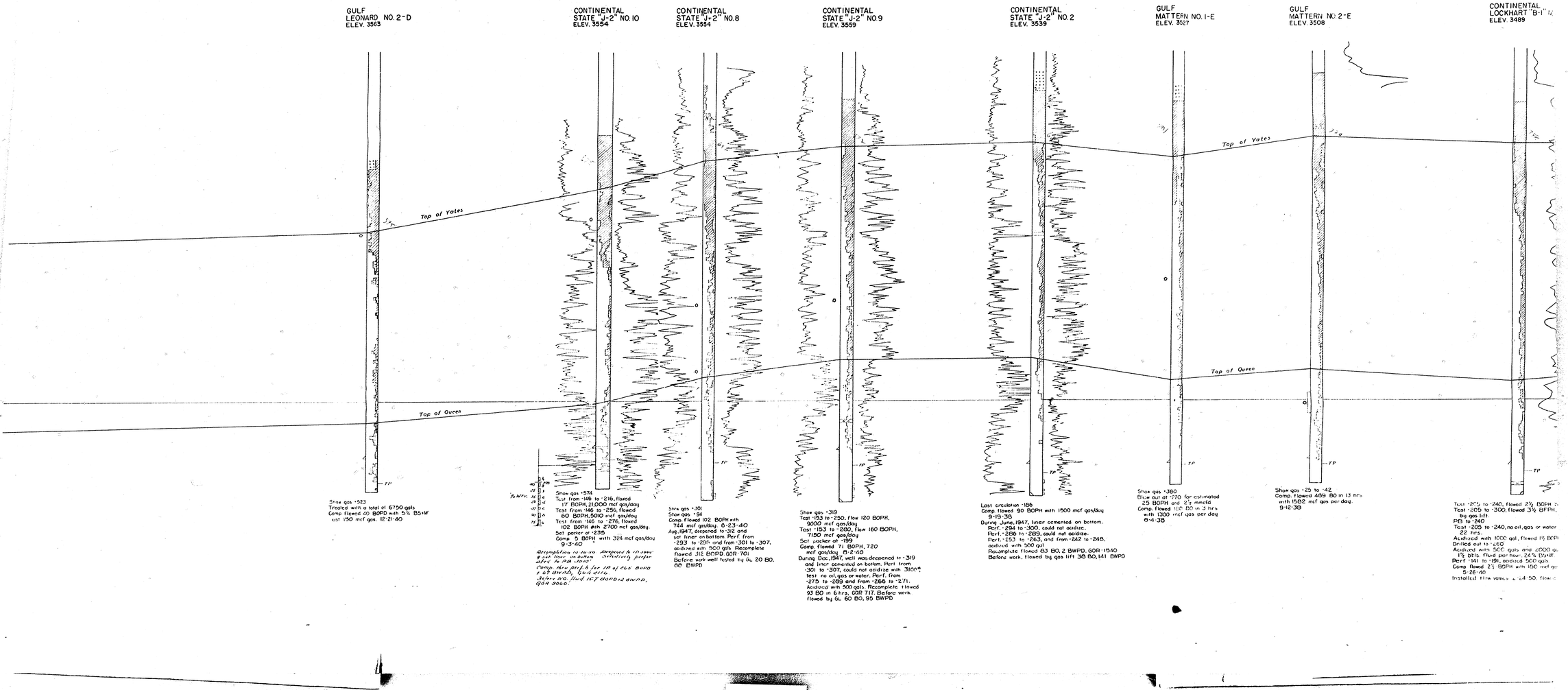


CONTINENTAL
STATE "FIA" NO. 1
ELEV. 3604
GULF
DAY NO. 4
ELEV. 3599
GULF
DAY NO. 2
ELEV. 3592
CITIES SERVICE
CLOSSON "A" NO. 3
ELEV. 3591
CITIES SERVICE
CLOSSON "A" NO. 1
ELEV. 3568
CITIES SERVICE
CLOSSON "A" NO. 2
ELEV. 3581
T.P.C.&O.
STATE "A" ACCT. NO. 2
WELL NO. 2
ELEV. 3592
T.P.C.&O.
STATE "A" ACCT. NO. 2
WELL NO. 34
ELEV. 3601
T.P.C.&O.
STATE "A" ACCT. NO. 2
WELL NO. 28
ELEV. 3603
800
600
400
200
SL
-200
-400
-600
-800
Top of Yates
Top of Seven Rivers
Top of Queen
Drilling Time
TP
① Test from -122 to -310 showed no oil, gas or water, acidized w/1000 gallons, no oil, gas or water.
② Test from -122 to -345, showed no oil, gas or water, acidized w/1000 gallons, flowed 5 bbls water per hour by gas lift.
③ PB to -326 and tested 3 bbls water per hour
PB to -296 and shot from -196 to -296 with 235 qts.
Comp. flowed 8 bbls oil per hour by gas lift. 7-8-39
During Oct. 1946, well averaged 2 BOPD
Plugged 2-18-47
Comp. flowed 227 BOPD with 1724 mcf gas. 9-5-38
Show gas -172 to -162
Show gas -132 to -122
Acidized 2000 gals., flowed 122 BO in 14 hrs with 175 mcf/day
Retreat 3000 gals.
Comp. flowed 117 BOPD with 3800 mcf gas 8-19-37
① DST No. 1, from -154 to -184, 500 mcf gas, 140 mud, show oil.
② DST No. 2, from -154 to -209, 180 mcf gas, 540' oil.
Comp. flowed 504 BOPD, 1000 mcf gas 6-10-37
Gas -258 to -240, est. ½ million/day
Gas -256 to -248
Gas -128 to -123 } est. 25 million/day
Gas -98 to -88
Gas from -28 to casing seat, 85 million/day
Gas from -13 to casing seat, 100 million/day
Show oil -49
In interval -132 to -135, 65 million/day
Show oil -178 to -183
Show oil -205 to -210
Water -287 to -297
Show gas -556
Show gas -420
Show gas -408
Show gas -151 to -136
Show oil -136
Show oil -19
① DST No. 1, from -69 to -123, 5000 mcf gas
② DST No. 2, from -123 to -141, 3000 mcf gas
③ DST No. 3, from -139 to -159, 6000 mcf gas
④ DST No. 4, from -159 to -195, 4000 mcf gas, 210' oil
Test -179 to -229, flowed est 20 BOPD, 2% water with 12,000 mcf gas/day
Test -179 to -235, flowed 503 bbls. fluid in 12 hrs, 16% water
Comp. flowed 264 BOPD and 3000 mcf gas from above packer set at -212. 8-30-36
In May, 1937, pulled packer and reset at -199. Flowed 500 bbls fluid per day, 14% water, 500 mcf gas from below packer.
Show gas -500 to -481
Show oil -158 to -171
Test -151 to -235, flowed 20 BOPD with est. 1,000 mcf gas
Water from -307 to -376
PB to -265
① Shot from -208 to -265 with 280 qts.
Comp. flowed 185 BOPD, 20% water, 1,500 mcf gas. 11-24-36
① DST No. 1, from -174 to -204, recovered 270' slightly oil cut mud
Comp. flowed 103 BO in 24 hours, 60R 1300 after 3000 gallons of acid 9-3-46
Comp. flowed 18 BOPH, 378 mcf gas per day after 2000 gals acid 6-3-43

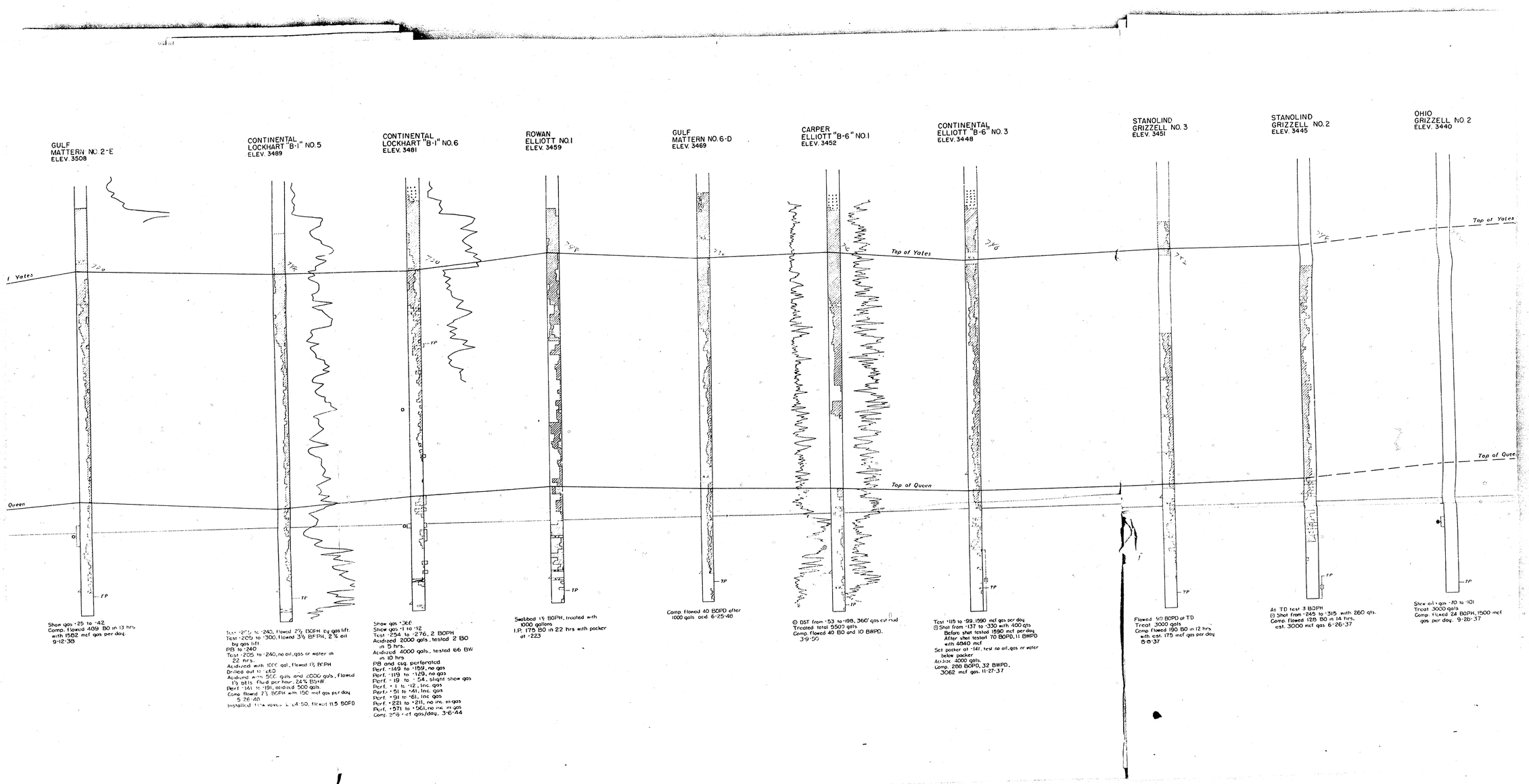
202


T.P.C.&O.
STATE "A" ACCT. NO.2
WELL NO. 34
ELEV. 3601
T.P.C.&O.
STATE "A" ACCT. NO.2
WELL NO. 28
ELEV. 3603
GULF
JANDA NO. 2-F
ELEV. 3602
GULF
RAMSEY STATE NO. 1
ELEV. 3562
GULF
LEONAR
ELEV. 35
Top of Yates
Top of Queen
TP
TP
TP
⊙ DST No.1, from -174 to -224, recovered 270' slightly oil cut mud
Comp. flowed 103 BO in 24 hours.
GOR 1300 after 3000 gallons of acid
9-3-46
Comp. flowed 18 BOPH, 378 mcf gas per day after 2000 gals acid
6-3-43
⊡ Shot -222 to -282 w/150 qts
Treated with total of 4500 gallons of acid.
IP 62 BO in 6 hours. 11-10-43
Slight show of oil and gas +500 to +491
Gas show +344
Gas show +336 to +332 gauged 6 million cfd with slight spray of oil.
Gas show +323 to +321 and +292 to +290 and at that time total volume was estimated at 8 mmcf
Estimated 2 mmcfd increase in gas from +277 to +272
Estimated 3 mmcfd increase in gas from +272 to +270
Show oil +247
Gas at +220 gauged 21 mmcfd- total
Increase in gas at +167 and gauged 26 mmcfd- total
Show of oil and gas at +19 to +15, 2 to 3 BOPD
Show gas +523
Treated with a to
Comp flowed 40
cut 150 mcf ga

203


GULF
LEONARD NO. 2-D
ELEV. 3563
Top of Yates
Top of Queen
TP
Show gas 1523
Treated with a total of 6750 gals.
Comp. flowed 40 BOPD with 5% BS+W
est. 150 mcf gas. 12-21-40
CONTINENTAL
STATE "J-2" NO. 10
ELEV. 3554
CONTINENTAL
STATE "J-2" NO. 8
ELEV. 3554
CONTINENTAL
STATE "J-2" NO. 9
ELEV. 3559
Show gas 1574
Test from 1146 to 1216, flowed
17 BOPH, 21,000 mcf gas/day
Test from 1146 to 1256, flowed
60 BOPH, 5010 mcf gas/day
Test from 1146 to 1276, flowed
102 BOPH with 2700 mcf gas/day.
Set packer at 1235
Comp. 5 BOPH with 324 mcf gas/day
9-3-40
Recompletion no show. Evaporated to 111 sand
& set liner on bottom. Selectively perfor
sand & frac'd sand.
Comp. thru perf.'s for 10 of 165 BWPD
+ 69 BWPD, thru csg.
Before rec. flwd 15 BOPD+2 BWPD,
GOR 3060.
Show gas 1301
Show gas 1294
Comp. flowed 102 BOPH with
744 mcf gas/day 6-23-40
Aug. 1947, deepened to 1312 and
set liner on bottom. Perf. from
1293 to 1299 and from 1301 to 1307,
acidized with 500 gals. Recomplete
flowed 312 BOPD, GOR 701.
Before work well tested by GL 20 BO,
66 BWPD
Show gas 1319
Test 1153 to 1250, flow 120 BOPH,
9000 mcf gas/day
Test 1153 to 1250, flow 160 BOPH,
7150 mcf gas/day
Set packer at 1199
Comp. flowed 71 BOPH, 720
mcf gas/day 8-2-40
During Dec. 1947, well was deepened to 1319
and liner cemented on bottom. Perf. from
1301 to 1307, could not acidize with 3100#
test no oil, gas or water. Perf. from
1275 to 1289 and From 1266 to 1271.
Acidized with 500 gals. Recomplete flowed
93 BO in 6 hrs, GOR 717. Before work
flowed by GL 60 BO, 95 BWPD
CONTINENTAL
STATE "J-2" NO. 2
ELEV. 3539
Last circulation 1186
Comp. flowed 90 BOPH with 1500 mcf gas/day
9-19-38
During June, 1947, liner cemented on bottom.
Perf. 1294 to 1300, could not acidize.
Perf. 1286 to 1289, could not acidize.
Perf. 1253 to 1263, and from 1242 to 1248,
acidized with 500 gal.
Recomplete flowed 63 BO, 2 BWPD, GOR 1540
Before work, flowed by gas lift 38 BO, 141 BWPD
GULF
MATTERN NO. 1-E
ELEV. 3527
Show gas 1360
Blew out at 1720 for estimated
25 BOPH and 2½ mmcfd
Comp. flowed 100 BO in 3 hrs
with 1300 mcf gas per day
6-4-38
GULF
MATTERN NO. 2-E
ELEV. 3508
Show gas 125 to 142
Comp. flowed 409 BO in 13 hrs
with 1582 mcf gas per day
9-12-38
CONTINENTAL
LOCKHART "B-1"
ELEV. 3489
Test 1215 to 1240, flowed 2½ BOPH
Test 1205 to 1300, flowed 3½ BFPH,
by gas lift
PB to 1240
Test 1205 to 1240, no oil, gas or water
22 hrs.
Acidized with 1000 gal., flowed 1½ BOPH
Drilled out to 1260
Acidized with 500 gals and 2000 gal.
1½ bbls. fluid per hour, 24% D&W.
Perf. 1141 to 1191, acidized 500 gals
Comp. flowed 2½ BOPH with 150 mcf ga
5-26-40
Installed flow valve & 4-50, flowi

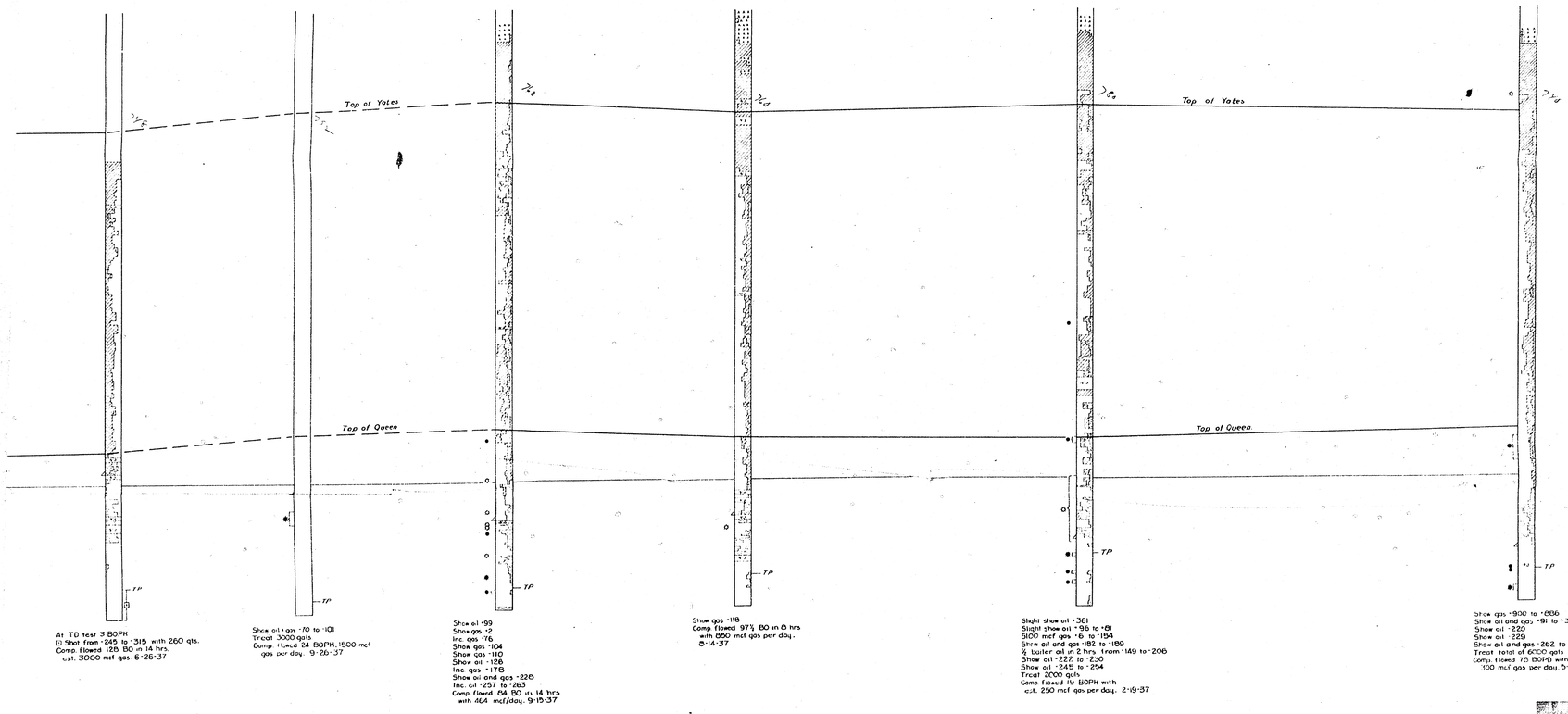
204


GULF
MATTERN NO. 2-E
ELEV. 3508
CONTINENTAL
LOCKHART "B-1" NO. 5
ELEV. 3489
CONTINENTAL
LOCKHART "B-1" NO. 6
ELEV. 3481
ROWAN
ELLIOTT NO. 1
ELEV. 3459
GULF
MATTERN NO. 6-D
ELEV. 3469
CARPER
ELLIOTT "B-6" NO. 1
ELEV. 3452
CONTINENTAL
ELLIOTT "B-6" NO. 3
ELEV. 3448
STANOLIND
GRIZZELL NO. 3
ELEV. 3451
STANOLIND
GRIZZELL NO. 2
ELEV. 3445
OHIO
GRIZZELL NO. 2
ELEV. 3440
Top of Yates
Top of Queen
Queen
TP
Show gas -25 to -42
Comp. flowed 409 BO in 13 hrs
with 1582 mcf gas per day.
9-12-38
Test -205 to -240, flowed 2½ BOPH by gas lift.
Test -209 to -300, flowed 3½ BFPH, 2 % oil
by gas lift
PB to -240
Test -205 to -240, no oil, gas or water in
22 hrs.
Acidized with 1000 gal., flowed 1½ BOPH
Drilled out to -262
Acidized with 500 gals and 2000 gals., flowed
1½ bbls fluid per hour, 24% BSW.
Perf. -161 to -191, acidized 500 gals.
Comp. flowed 2½ BOPH with 150 mcf gas per day
9-26-40
Installed flow valve & 24 SO, flowed 11.5 BOPD
Show gas -1 to -12
Test -234 to -276, 2 BOPH
Acidized 2000 gals., tested 2 BO
in 5 hrs.
Acidized 4000 gals., tested 66 BW
in 10 hrs
PB and csg. perforated
Perf. -149 to -159, no gas
Perf. -119 to -129, no gas
Perf. -19 to - 24, slight show gas
Perf. - 1 to -12, inc. gas
Perf. -51 to -61, inc. gas
Perf. -91 to -161, inc gas
Perf. -221 to -211, no inc. in gas
Perf. -571 to -561, no inc. in gas
Comp. 298 mcf gas/day. 3-6-44
Swabbed 1½ BOPH, treated with
1000 gallons
I.P. 175 BO in 22 hrs with packer
at -223
Comp. flowed 40 BOPD after
1000 gals acid 6-25-48
⊙ DST from -53 to -198, 360' gas cut mud
Treated total 5500 gals
Comp. flowed 40 BO and 10 BWPD.
3-9-50
Test +115 to -99, 1590 mcf gas per day
(1) Shot from -137 to -330 with 400 qts
Before shot tested 1590 mcf per day
After shot tested 70 BOPD, 11 BWPD
with 4840 mcf
Set packer at -141, test no oil, gas or water
below packer
Acidize 4000 gals.
Comp. 288 BOPD, 32 BWPD.
3062 mcf gas. 11-27-37
Flowed 901 BOPD at TD
Treat 3000 gals
Comp flowed 190 BO in 12 hrs
with est. 175 mcf gas per day
8-8-37
At TD test 3 BOPH
(1) Shot from -245 to -315 with 260 qts.
Comp. flowed 128 BO in 14 hrs.
est. 3000 mcf gas 6-26-37
Show oil & gas -70 to -101
Treat 3000 gals
Comp. flowed 24 BOPH, 1500 mcf
gas per day. 9-26-37

205

EAST-WEST SECTION T-22

Scale: Vertical - 1"=100'
Horizontal - 1"= 600'



At TD test 3 BOPH
(1) Shot from -245 to -315 with 260 qts.
Comp. flowed 125 BO in 14 hrs.
est. 3000 mcf gas 6-26-37

Show oil & gas -70 to -101
Treat 3000 gals
Comp. flowed 24 BOPH, 1500 mcf
gas per day. 9-20-37

Show oil -99
Show gas -2
Inc. gas -76
Show gas -104
Show gas -110
Show oil -126
Inc. gas -176
Show oil and gas -226
Inc. oil -257 to -263
Comp. flowed 64 BO in 14 hrs
with 464 mcf/day. 9-15-37

Show gas -118
Comp. flowed 97⅞ BO in 6 hrs
with 850 mcf gas per day.
8-14-37

Slight show oil -361
Slight show oil -96 to -81
5100 mcf gas -6 to -154
Show oil and gas -182 to -189
½ bailer oil in 2 hrs. from -149 to -206
Show oil -227 to -230
Show oil -245 to -254
Treat 2000 gals
Comp. flowed 19 BOPH with
est. 250 mcf gas per day. 2-19-37

Show gas -900 to -886
Show oil and gas -91 to -33
Show oil -220
Show oil -229
Show oil and gas -262 to -277
Treat total of 6000 gals
Comp. flowed 76 BOPD with
100 mcf gas per day. 5-24-37

EXH. NO. 6

206

CONTINENTAL
STATE "A-32" NO.6
ELEV. 3483

CONTINENTAL
STATE "A-32" NO.3
ELEV. 3478

CONTINENTAL
MEYER "B-33" NO. 1
ELEV. 3475

CONTINENTAL
MEYER "B-33" NO.2
ELEV. 3495

WESTERN GAS
HALE NO. 1
ELEV. 3490

DALPORT
JONES NO. 1
ELEV. 3511

GULF
JANDA "I" NO. 2
ELEV. 3484

GULF
JANDA "I" NO. 1
ELEV. 3452

OLSON
KING "NW" NO. 1
ELEV. 3440

SKELLY
KING "C"
ELEV. 3416

800
600
400
200
SL
-200
-400
-600

Top of Yates

Top of Seven Rivers

TP

① DST No 1 +28 to -27,
Nothing.
② DST No.2 -27 to -97, 65' gas
cut mud, 1 hour
③ DST No.3 -97 to +143, 40' oil,
130' oil cut mud
④ DST No 4 -143 to -205, 125'
water, trace oil, show gas, 1 hour
Tested 1 BOPH, -146 to -172
Acidized w/500 gals., reacidized
w/3000 gals
I.P.F. 124 Bbls. oil in 6 hours.
231 MCF gas per day
Comp. 6-13-48
*Oct '53 Acid fracing. Prod. in-
creased from 10 BOPD to 60 BO
+ 81 BW per day*

Perf. +28 to -32, acidized
1000 gals. Re-treated 3000
gals
Tested 4510 MCF/day
P.B. to -32
Perf. from +2 to +2 and -6
to -12
Tested 4,800 in 12 hours.
Acidized 500 gals.
Flowed 58.80 per hour
857 MCF/day
Comp. 9-29-47
*Re-comp. at gas well 7-13-50
Rig Rel. 8-6-50 Acd. 3000 Lbs/Ft
10 gpm/ft. SIP 2447#
Un Load'd after 4 hrs. 2284#*

① DST No 1 +195 to +135
1500 MCF gas/day
② DST No 2 +135 to +120
20' mud in 1 hr., no O or G.
③ DST No 3 +120 to +100
2480 MCF Gas per day
④ DST No 4 +100 to +35
98 MCF gas/day, 180 water,
no oil
⑤ DST No. 5 +75 to +50
180 MCF gas/day, 130 gas
cut mud, no oil or water.
DST No 6 +50 to +25
150' Sulphur water, Show G
⑥ DST No 7 +25 to -35
480' water, 30' oil in 1 hour
Test -35 to -73 solid 12 bbls
water in 1 hour
PB to -25
Perf. +185 to +107
Test 600 MCF gas/day
PB to +185
Perf. +155 to +825
Flowed 17,000 MCF gas/day
SIP 940#
Comp 7-13-47

On 4-11-50 Shut in pressure +824#
On 6-12-50 R Pressure Potential-
6150 MCF/day
Sulphur 91 grains/100 cu ft.
On 3-20-53 SIP 1224 Sur. Pres. 1

① DST No 1 +305 to +55, recovered in 1 hr.,
1560' gas cut mud, slight show oil
② DST No 2 +55 to -67, recovered in 1 hr,
350' mud, no oil, gas or water
③ DST No. 3 -67 to -200, recovered in 1 hr.
220' mud, no O G or W.
④ DST No 4 -200 to -325, recovered in 1 hr.
210' mud, no O.G. or W.
⑤ DST No 5, -325 to -405, recovered in 1 hr,
60' mud, sl. show oil, no gas
⑥ DST No 6, -485 to -530 recovered in 1 hr,
780' water, sl. show oil
P.B. to +15, bailed 5.5 BOPD
1 Bbl. water/day
⊡ Shot from +285 to +151 w/196 qts.
Flowed 188 BOPD
96 MCF gas.
Comp. 9-27-48
*Oct '53 Sonfreed 3103-3370' w/60000g.
Inc from 16.8 to 32 BOPD.*

Show of Gas. +340 to +291
2½ MMCF/day
Comp. 9-25-47

8,100 MCF/day
Comp. 6-2-50

S.I.P. 1152#
14,900 MCF/day
Comp. 2-13-56

S.I.P. 1035#
1,003 MCF/day
Comp. 12-3-49

SIP 1375#
14,500 MCF/day
Comp. 6-22-49

① DST No 1 +438 to
Flowed 5.5 MCF/d
② DST No 2 +374 t
Flowed 47.3 MCF
⑤ DST No 3 +
170 MCF/day
⊡ Shot from +316 to
I.P.F. 55,000 MCF
SIP 1250#
Comp. 11-15-49

207

EAST-WEST SECTION T-22 A

Scale Vertical 1"=100'
Horizontal 1"=600'

OLSON
KING "NW" NO. 1
ELEV. 3440

SKELLY
KING "C" NO. 1
ELEV. 3416

SKELLY
KING "D" NO. 1
ELEV. 3409

SUN
RICHARD NO. 1
ELEV. 3370

SKELLY
HARRISON NO. 1
ELEV. 3352

R. LOWE
KING NO. 1
ELEV. 3336

SKELLY
A. L. KING NO. 1
ELEV. 3331

SKELLY
H. D. SIMS NO. 1
ELEV. 3296

INTER-COASTAL
STATE NO. 1
ELEV. 3297

Top of Yates

Top of Queen

TP

SIP 1275 #
14,000 MCF/day
Comp. 6-22-49

① DST No 1 -438 to -486
Flowed 58 MCF/day
② DST No 2 -486 to -524
Flowed 4410 MCF/day
③ DST No 3 -[illegible]
170 MCF/day
④ Shot from -345 to -426 in 40 qts.
IPF 55,000 MCF/day
SIP 1250 #
Comp. 11-15-49

Shot -359 to -449 w/430 qts.
Flowed 31,000 MCF/day
Comp. 7-23-50

Shot -185 to -[illegible]
Bailed 10 gals and 2 quts.
in thirty minutes
Shot No. 1 -[illegible] to -386
w/230 qts
Pumped 19 bbls oil, 25
bbls water per day
Comp. 12-36

Very slight show oil -178
Show of oil -238
Show of oil -248
At -322 made ½ bbl oil
in 2 hours, 40 min
Show of oil -348
④ Shot No 1 -439 to -402
w/870 qts
Set 284' of 7" perforated
liner at 402
Pumping 284 BOPD
Comp. 2-28-36

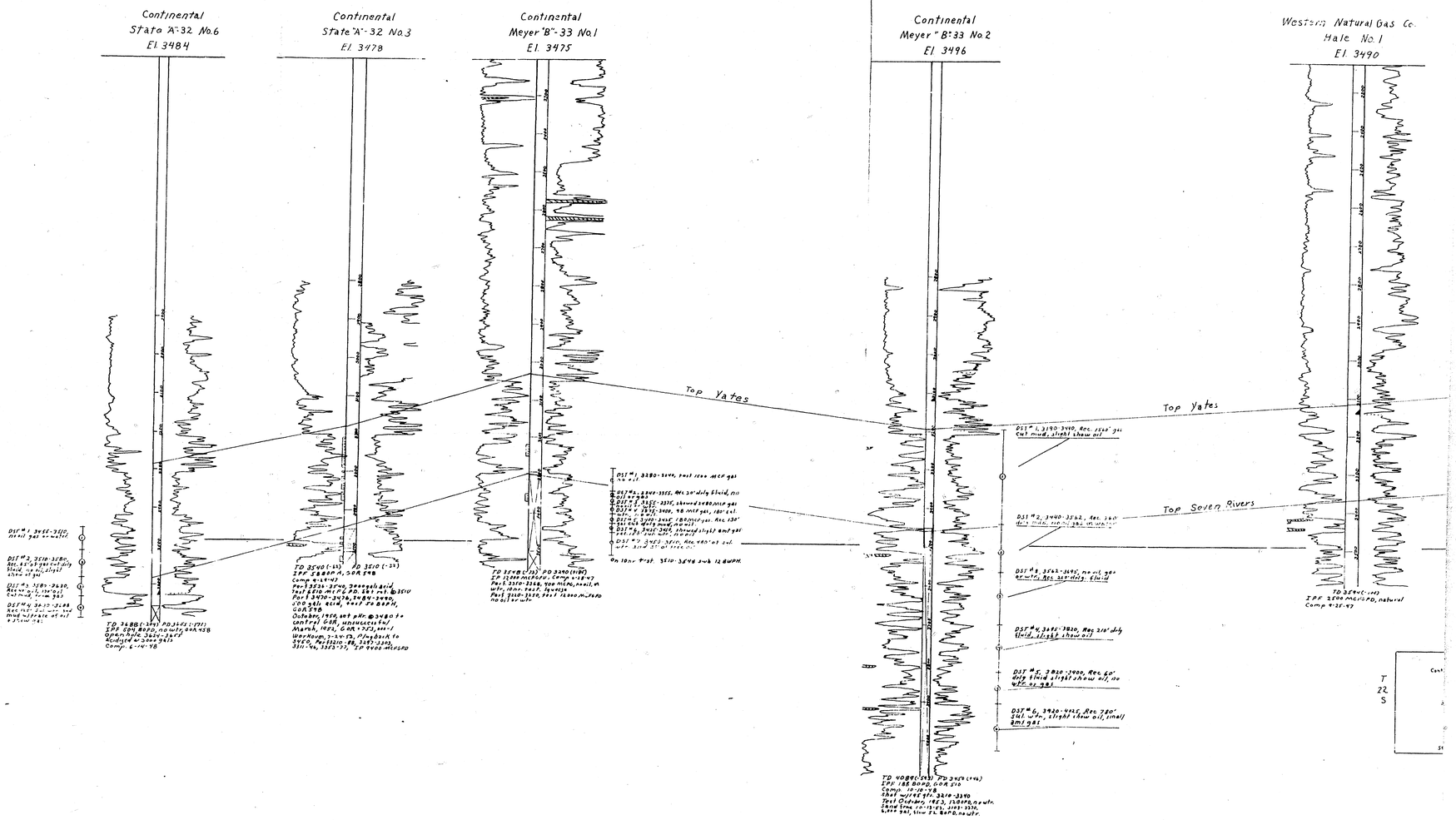
Show of gas -226
Show of gas -230
Slight show of oil -245
⑤ Shot No 1 -234 to -351
IPF 40 BOPD
Comp 1-23-49

Blow out -231
Show oil -231 to-244
Inc. oil -258 to -272, -310 to -314
⑥ Shot No 1 -172 to -325
w/270 qts
Flowed 142 BOPD.
Comp. 4-14-36

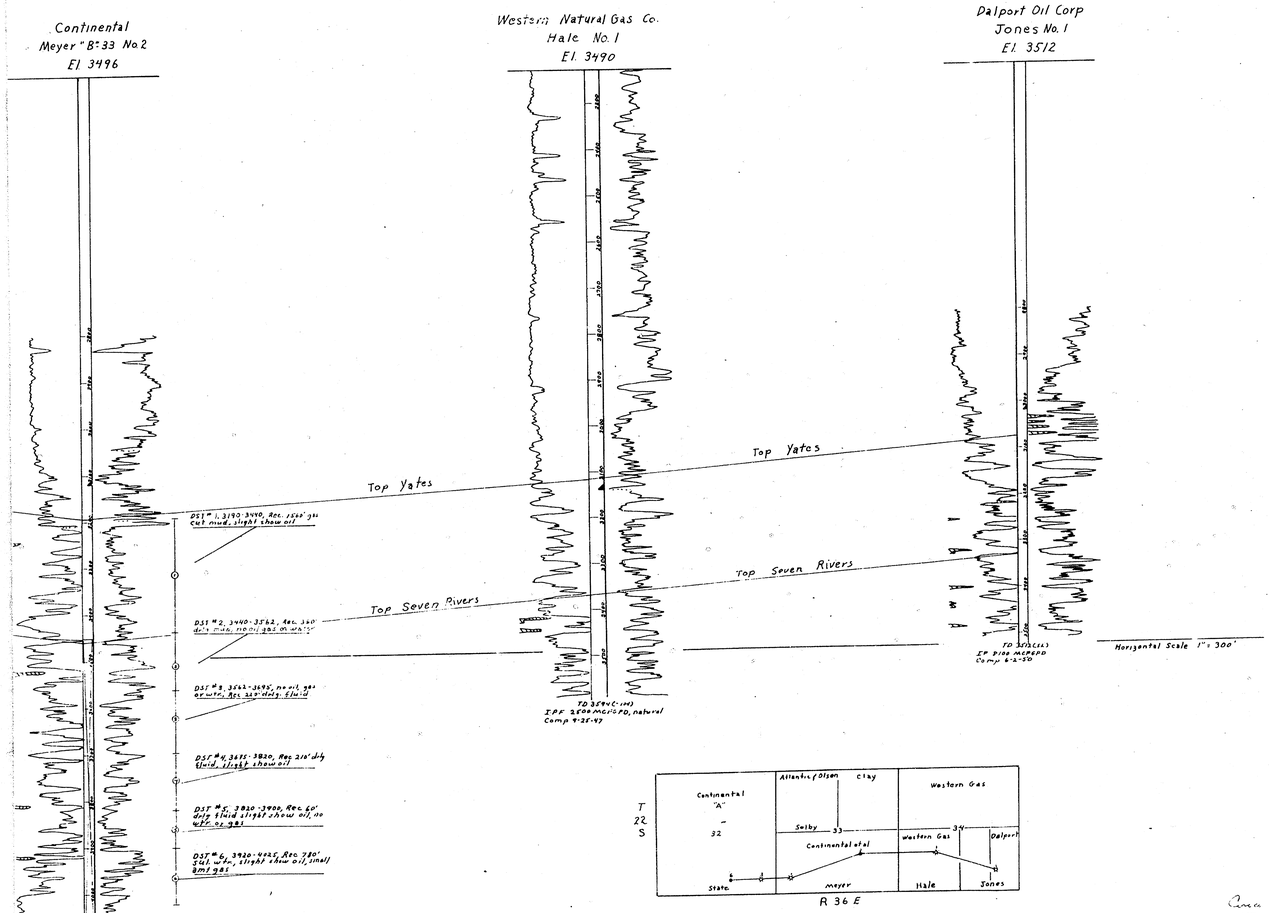
Show oil -36 to -83
Bailed 3 BOPH
Show oil -115
Show oil, gas -199
Show oil -192 to -206
Oil and Gas -227
Before shot flowed 36 bbls
oil in 12 hrs. w/est 3000 MCF gas
⑦ Shot No 1 -36 to -212 w/40 qts.
Flowed 55.50 in 13 hrs. w
Est 6,000 MCF/day
Comp 12-21-36

Slight show oil -263
Water -353 to -361
D and A 4-16-38

EXH. NO. 7


Continental
State "A"-32 No.6
El. 3484
Continental
State "A"-32 No.3
El. 3478
Continental
Meyer "B"-33 No.1
El. 3475
Continental
Meyer "B"-33 No.2
El. 3496
Western Natural Gas Co.
Hale No. 1
El. 3490
Top Yates
Top Yates
Top Seven Rivers
DST #1, 3455-3470, steel gas to surface
DST #2, 3518-3580, Rec. 65' slightly gcm cut oily fluid, no ntc, slight show of gas
DST #3, 3580-3630, Rec. 90' gcm, 120' gcw, Cushion, 1 hr no gas
DST #4, 3622-3688, Rec. 150' gcm cut mud w/trace of oil & show gas
TD 3688 (-211)
PD 3492 (-17)
IPF 2201 MCFGPD, no wtr, 594 psig
Open hole 3624-3688
Acidized w/ 2000 gals
Comp. 6-14-78
DST #1, 3380-3444, tool 1 hr, 1000 MCF gas no oil
DST #2, 3309-3355, Rec. 30' oily fluid, no oil or gas
DST #3, 3355-3376, showed 2400 MCF gas
DST #4, 3355-3408, 98 MCF gas, 180' gcm
DST #5, 3390-3456, 180 MCF gas, Rec. 130' gcm & oily mud, no oil
DST #6, 3402-3462, showed slight amt gas
DST #7, 3463-3516, Rec. 480' mcw & oil
TD 3548 (-33)
PD 3510 (-37)
IPF 7880 MCFGPD, 500 psig
Comp. 9-14-78
PD 3220-3704, Penrose sand
Test 6816 MCFGPD, 561 psig
Perf 3470'-3476, 3489-3490, 3499-3511, 3514, 3552-3560, 500 gals 15% NEFE HCl
Sandfrac w/ 28,000 # 20/40 Ottawa, 1500 gals 15% NEFE HCl & 1000 # 10/20 Ottawa sand
Control GOR, unsuccessful
Marsh, 1975, GOR 1527, est.
Warren, 3-14-79, Plugback to 3469, Perf 3320-28, 3385-3390, 3511-16, 3523-27, IP 9468 MCFGPD
TD 3548 (-33)
PD 3490 (-19)
IP 11,588 MCFGPD, Comp. 4-18-79
Perf 3310-3368, 100 MCFG, no oil or wtr, non-comm. Penrose
Perf 3310-3570, Perf 13,500 MCFGPD
no oil or wtr.
9a 10hr 9-pf. 3510-3548 swb 12 BWPH
DST #1, 3190-3490, Rec. 1500' gcm cut mud, slight show oil
DST #2, 3440-3562, Rec. 360' slightly oil cut mud, 240' oil cut wtr
DST #3, 3562-3695, no oil, gas or wtr, Rec. 365' drlg. fluid
DST #4, 3692-3820, Rec. 210' oily fluid, slight show oil
DST #5, 3820-3900, Rec. 60' oily fluid slight show oil, no wtr or gas
DST #6, 3930-4042, Rec. 720' GIP, 45' mcw, slight show oil, small amt gas
TD 4088 (-592) PD 3478 (-14)
IPF 188 BOPD, GOR 210
Comp. 12-18-78
Perf w/1 JSPF 3879-3890
Test Oriskany, 1823, 1500 psig, no wtr.
Acid frac w/ 1500 gals 20% NEFE HCl & 2000 gals 15% NEFE HCl
Lower 9a, 11w 24, 840 BO, no wtr.
TD 3540 (-44)
IPF 3200 MCF/D, natural
Comp 9-25-47
T 22 S

209



Continental
Meyer "B" 33 No. 2
El. 3496
Western Natural Gas Co.
Hale No. 1
El. 3490
Dalport Oil Corp
Jones No. 1
El. 3512
Top Yates
Top Seven Rivers
Horizontal Scale 1" = 300'
Continental "A" 32
Atlantic/Olson
Clay
Western Gas
Solby
33
34
Continental et al
Western Gas
Dalport
State
Meyer
Hale
Jones
T 22 S
R 36 E

EXH. NO. 8

210

CONT'L ET AL
LYNN A-28 NO. 1
ELE. 3454

CONT'L ET AL
LYNN A-28 NO.5
ELE. 3931

CONT'L ET AL
LYNN A-27 NO.1
ELE. 3425

CONT'L ET AL
LYNN B-27 NO.1
ELE. 3385

CONT'L ET AL
LYNN B-26 NO.3
ELE. 3364

CONT'L ET AL
LYNN B-26 NO.2
ELE. 3364

CULBERTSON-IRWIN
LANKFORD NO.1
ELE. 3354

CULBERTSON-IRWIN
NINA LANKFORD NO.1
ELE. 3354

CLAY
COWDEN B-3A
ELE. 3356

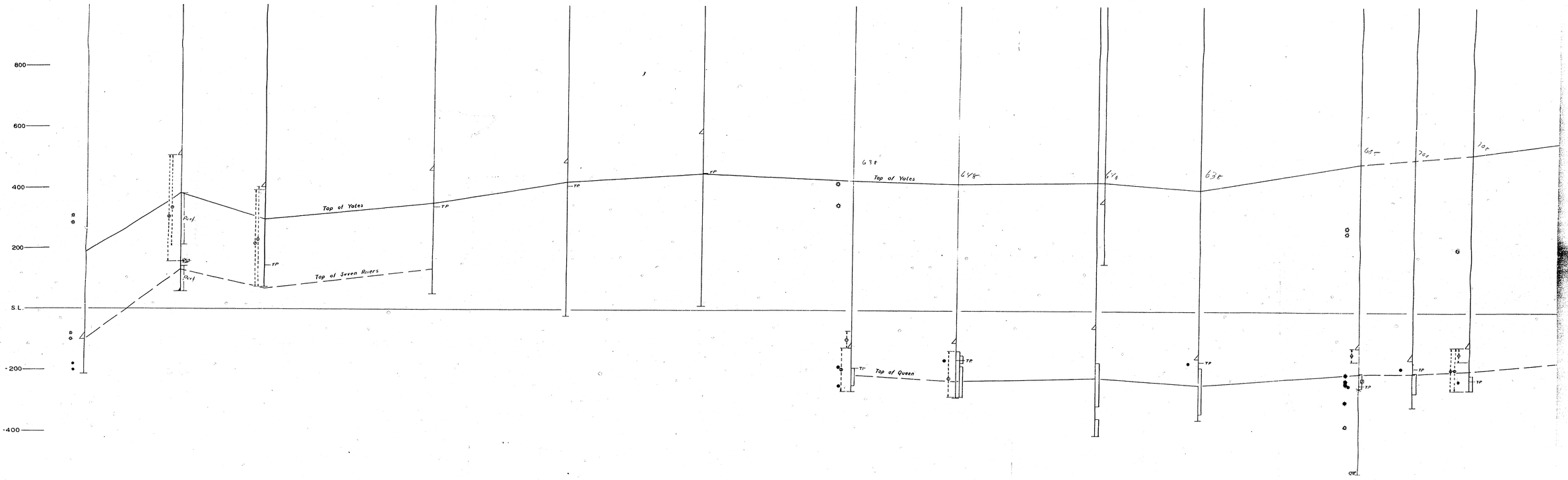
CLAY
COWDEN B1
ELE. 3356

HERFF
COWDEN NO.1
ELE. 3344

WESTERN
COWDEN NO1
ELE. 3321

GREAT WESTERN PROD.
LEONARD 2-B
ELE. 3313

GREAT WESTERN
LEONARD 3-B
ELE. 3308



Comp 5-12-49 @ TD 5668
for IP T1 80PH, No Water
887 MCF/day on 8 hr test
Having thru 24" choke,
Not shut-in acid-ized.
Pay section 5653-5640';
5634-5639'

Test #1: 505 to 208 .5 MMCFGPD
Test #2: 505 to 155 .25 MMCFGPD
with BP - 900 psi
Comp: 2.54 MMCFGPD open flow
thru 1" Date: 3-1-42
Test April 18, 1950 SIP 806 psi
June 2, 1950 66 MMCFGPD on
back pressure test

Dual Comp. 5-18-53: Dropped
to 3375' liner on bottom
Dst zone 3372' / Hwd 3080
no wtr, in 2 hrs. 853 MCF FP:
100#
Seven Rivers Perf 3440'-3474'
Sic and Baxter Perf 3504'-
GVR 550. TP: 50#

Yates: Perf 3049'-3426'
Gas 4-1966: Final Rep. Rpt
SIP 698.2

Test #1: 407 to 72 natural 1900 MCFGPD
Treat: 391 to 72 w/2000 gal
Comp: 12 MCFGPD open thru csg
Date: 11-28-47
Later BP Test: 6400 MCFGPD SIP 890
April 11, 1950 - Sip 817
May 31, 1950 - BP Test 4350 MCFGPD

Comp: 8600 MCFGPD thru csg
SIP 1190 psi Date: 5-18-48
April 11, 1950 SIP 1038 psi
June 7, 1950 BP test 3500 MCFGPD
5-1-53. OFP 4000 MCF SIP 770-3#

Comp: BP test 11,400 MCFGPD
SIP 1225 psi Date 4-3-49
April 11, 1950 SIP 1125 psi
June 7, 1950 BP Test 4440 MCFGPD
4-24-53: OFP 660 MCF SIP 970-3#

Comp: 25,500 MCFGPD thru csg
SIP 1182 psi Date: 3-31-48
April 2, 1948 BP Test 15,800 MCFGPD
SIP 1182 psi (well head)
April 11, 1950 SIP (well head) 1084 psi
June 7, 1950 BP Test 6050 MCFGPD
4-24-53: OFP 1740 MCF SIP 950-3#

Show gas -419 to 347
Blew Out at depth of 324 Est 75 MMCFGPD
Test #1: DST -68 to -121 15 MMCFGPD
Test #2: -121 to -264 flowed 31 BOPD
Shot: -196 to -246 w/120 qts
Comp -121 to -264 35 BOPD with
650 MCF gas Date: 3-17-40

Shot -131 to -281 w/253 qts
Test #1: after shot flow est 38 BOPD
Shot -146 to -171 w/50 qts
-181 to -281 w/200 qts
Completion: IPF 50 BOPD
Date 12-24-49

"B-3-B
Shot -331 to -405 w/107 qts
Shot -169 to -303 w/326 qts
Comp: IPF 70 BOPD
Date 8-11-49
"B-3-1
Csg at -336
T.D. at -151
Comp: 6230 MCFGPD
Date: 3-5-47
Remarks: 100' distance between
these wells

Shot -186 to -336 w/370 qts
Comp: -154 to -352 IPF 12 BOPD
Date: 2-3-50

SI show gas -271 to -256
DST #1: -180 to -162 Rec 10' mud
Show O & G -209 to -225
Incr gas -220
Show oil -229 to -239
Incr O & G -297
Incr Gas -379
Sulfur water -525 to -529
Plug back to -249
Shot -199 to -249 w/150 qts
Comp: IPF 33 BO/Hr Date 11-28-51

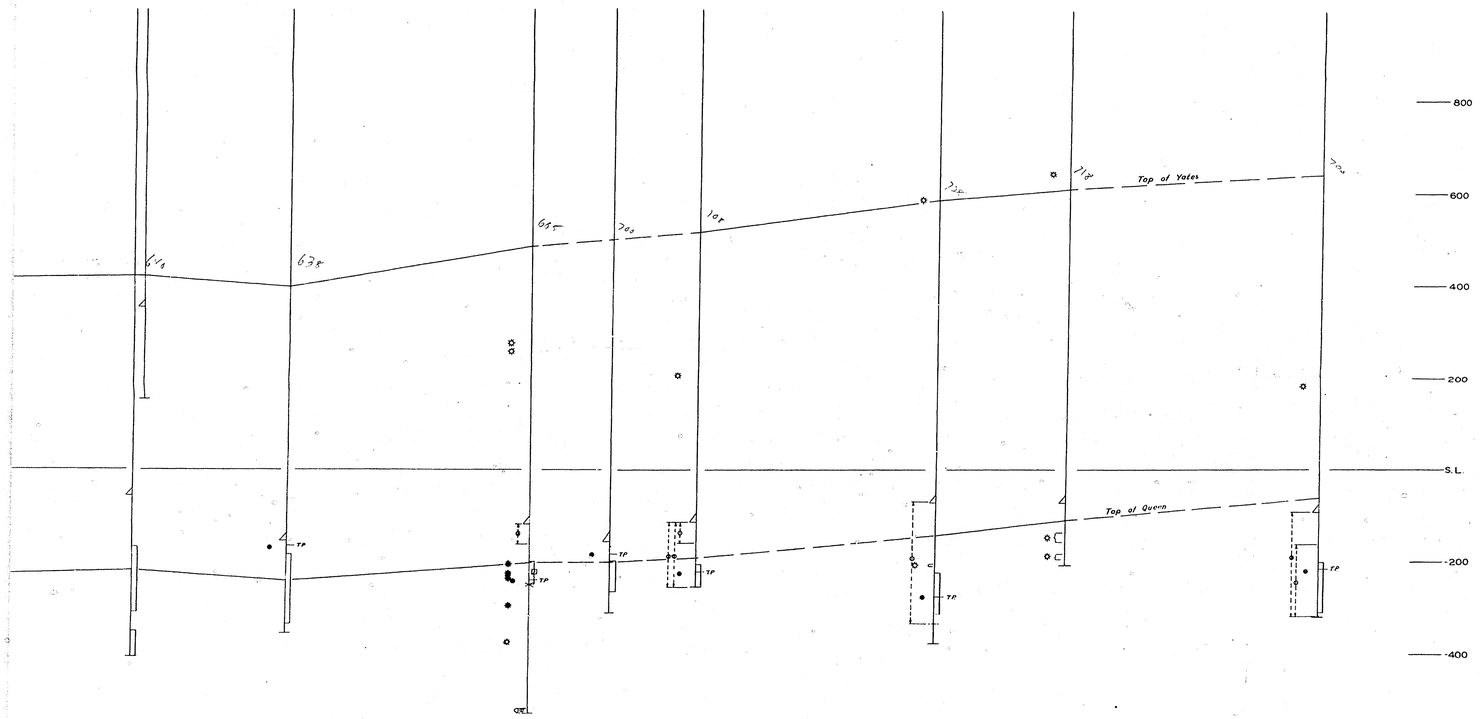
Shot -191 to -266
w/190 qts
Completion IPF
97 BOPH
Date: 9-24-59

Show gas -205 to 198
Test #1: 115 to 140 0630 MCFGPD
Test #2: 115 to -256 Est 980 MCFGPD
Shot -206 to -256 w/100 qts
Test #3: 115 to -256 2% BOPH
w/0630 MCFGPD
Comp: Flw at 190 T.D. -256
IPF 150 BOPD w/600 MCFGPD
Date: 6-25-50

EAST-WEST SECTION T-23

Scale: Vertical 1"=100'
Horizontal 1"=600'

CLAY	CLAY	HERFF	WESTERN	GREAT WESTERN PROD.	GREAT WESTERN	GREAT WESTERN	RESLER & SHELDON	WESTERN GAS
COWDEN B-3A	COWDEN B1	COWDEN NO.1	COWDEN NO1	LEONARD 2-B	LEONARD 3-B	LEONARD 1-B	FANNING NO.1	DAVIS NO.1
ELE. 3356	ELE. 3356	ELE. 3344	ELE. 3321	ELE. 3313	ELE. 3308	ELE. 3283	ELE. 3280	ELE. 3286



"B-3-A
Shot -351 to -405 w/107 qts
Shot -169 to -307 w/326 qts
Comp: IPF 70 BOPD
Date: 8-11-49
"B-3-1
Cig at +556
TD at +151
Comp: 6250 MCFGPD
Date: 5-5-47
Remarks: 100' distance between these wells

Shot -186 to -336 w/370 qts
Comp: -154 to -352 IPF 12 BOPD
Date: 2-3-50

SI show gas +271 to +256
DST #1: -191 to -162 Rec 10' mud
Show O & G -209 to -225
Incr gas -229
Show oil -229 to -239
Incr O & G -297
Incr Gas -379
Sulfur water -525 to -529
Plug back to -249
Shot -190 to -249 w/150 qts
Comp: IPF 55 BO/1 hr. Date: 11-28-37

Shot -197 to -266 w/140 qts
Completion: IPF 97 BOPD
Date: 4-24-39

Show gas +205 to 198
Test #1: 115 to +140 9630 MCFGPD
Test #2: 115 to -256 Est. 8 BOPH thru csg.
Shot -206 to -256 w/100 qts
Test #3: -115 to -256 2% BOPH w/9630 MCFGPD
Comp: Pkr at -190 T.D. -256 IPF 130 BOPD w/1600 MCFGPD
Date: 6-23-30

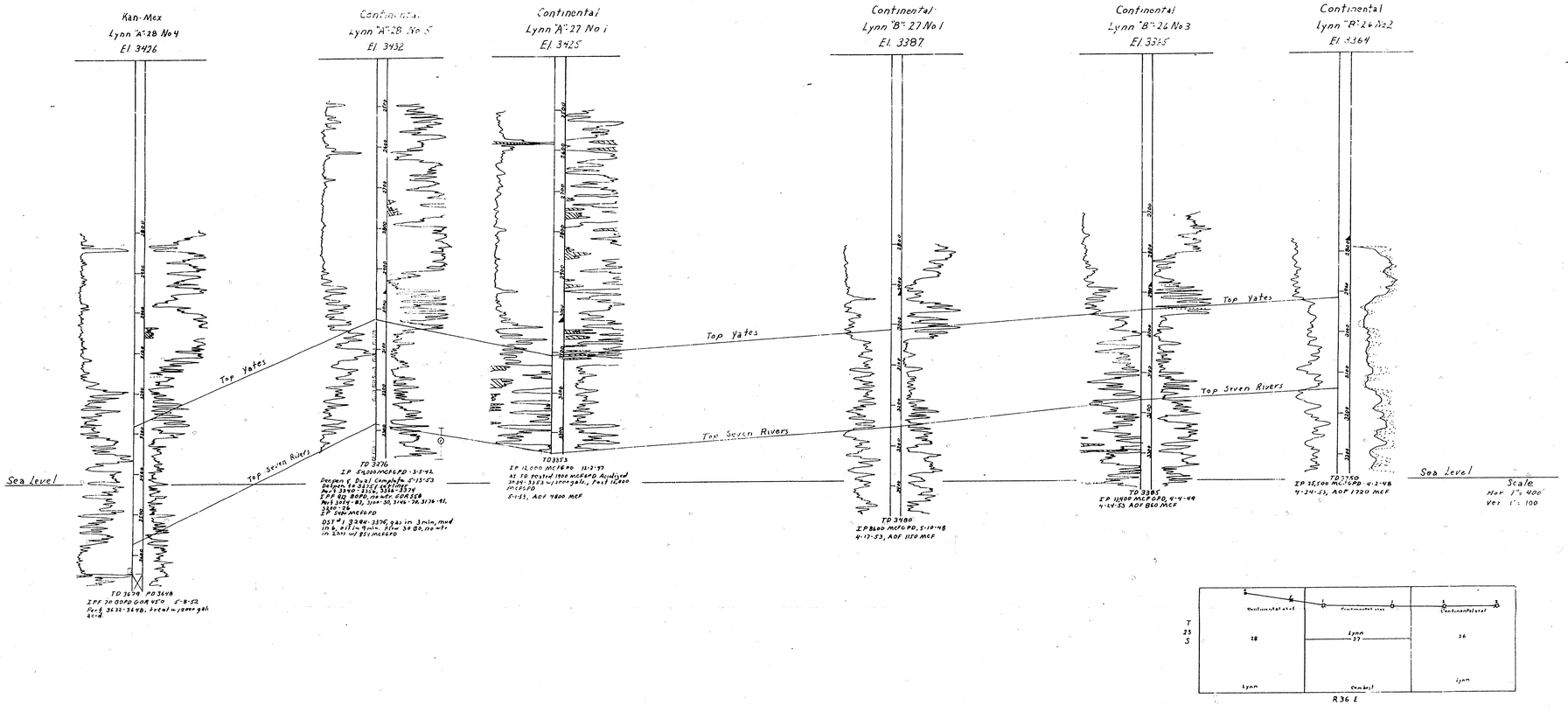
SI show gas +595 to +585
Show gas -204 to -200 Est 15-MMCFGPD
Test #1: -67 to -332 Est 15-MCFGPD
Shot -222 to -312 w/215 qts
Completion: IPF 40 BOPD & 250 MCFGPD Date: 9-14-38
Workover: Test before 25 BOPD Date: 10-12-38
Deepened to -377 No shows
Recomp: IPF 11 BOPD & 450-MLFGPD Date: 11-12-38

SI show gas +645 Brown lime
Show gas -155 to -154
Incr. gas -180 to -102
Comp: 62 MMCFGPD
Date: 12-6-38

SI show gas +186
Test #1: DST -239 to -314 Rec 240' mud
Test #2: -89 to -315 15 BOPD
Shot -196 to -304 w/200 qts
Comp: IPF 10 BOPH & 2 MMCFGPD
Date: 5-20-38

Exhibit

EXH. NO. 9



Kan-Mex
Lynn "A"-28 No 4
El 3426
Continental
Lynn "A"-28 No 5
El 3432
Continental
Lynn "A"-27 No 1
El 3425
Continental
Lynn "B"-27 No 1
El 3387
Continental
Lynn "B"-26 No 3
El 3365
Continental
Lynn "B"-26 No 2
El 3364
Top Yates
Top Seven Rivers
Sea Level
TD 3679 PD 3648
IPF 70 BOPD GOR 450 5-8-52
Perf 3632-3648, treat w/ 1500 gals acid
TD 3276
IP 54,000 MCFGPD 3-5-42
Deepen & Dual Complete 5-13-53
Deepen to 3325 & Complete
Perf 3340-3376, 3356-3374
IPF 90 BOPD, no wtr. GOR 558
Perf 3074-87, 3100-30, 3146-70, 3176-91, 3200-26
IP 5400 MCFGPD
DST #1 3294-3376, gas in 3 min, mud in 6, oil in 9 min. Flow 30 BO, no wtr in 2 hrs w/ 854 MCFGPD
TD 3353
IP 12,000 MCFGPD 12-2-47
AT TD tested 1800 MCFGPD. Acidized 3034-3353 w/ 1000 gals., Fast 12,000 MCFGPD
5-1-53, AOF 4800 MCF
TD 3480
IP 8600 MCFGPD, 5-10-48
4-17-53, AOF 1150 MCF
TD 3385
IP 11,400 MCFGPD, 4-4-49
4-24-53 AOF 860 MCF
TD 3350
IP 25,500 MCFGPD 4-2-48
4-24-53, AOF 1720 MCF
Scale
Hor 1" = 400'
Ver 1" = 100
T
23
S
Continental steel
Continental steel
Continental steel
28
Lynn
27
26
Lynn
Combest
Lynn
R 36 E

213

EXH. NO. 10

214

LEA CO. NEW MEXICO

LEA CO. NEW MEXICO & GAINES CO. TEXAS

R 36 E

R 37 E

T 17 S

T 18 S

T 19 S

T 20 S

T 21 S

HOBBS

BLK. A-8

BLK. A-9

BLK. A-10

BLK. A-12

BLK. A-28

BLK. A-29

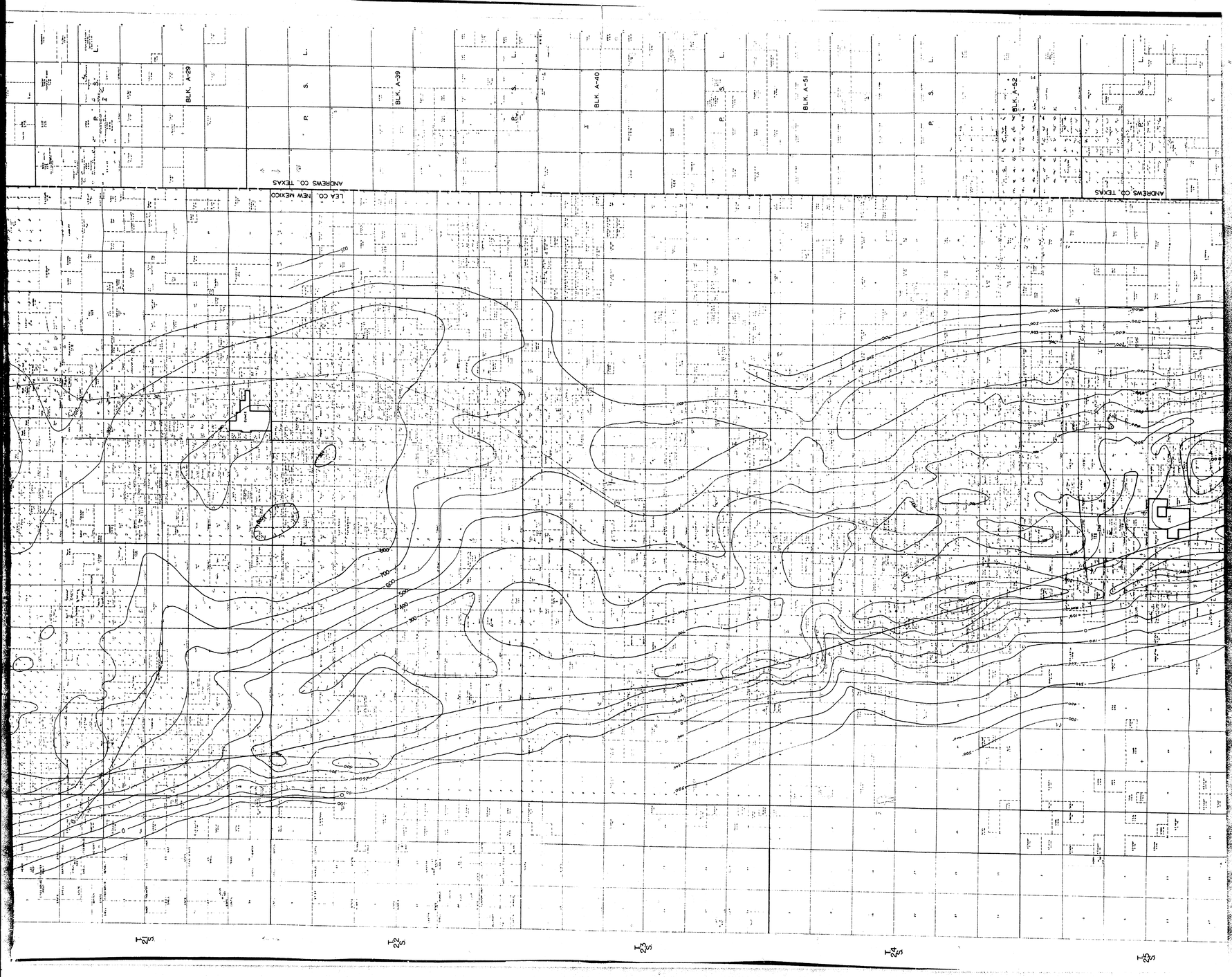
P.

S.

L.

LEA CO. NEW MEXICO

GAINES CO. TEXAS


BLK. A-29
BLK. A-39
BLK. A-40
BLK. A-51
BLK. A-52
ANDREWS CO., TEXAS
LEA CO., NEW MEXICO
ANDREWS CO., TEXAS
T-25
T-24
T-23
T-24
T-25

215

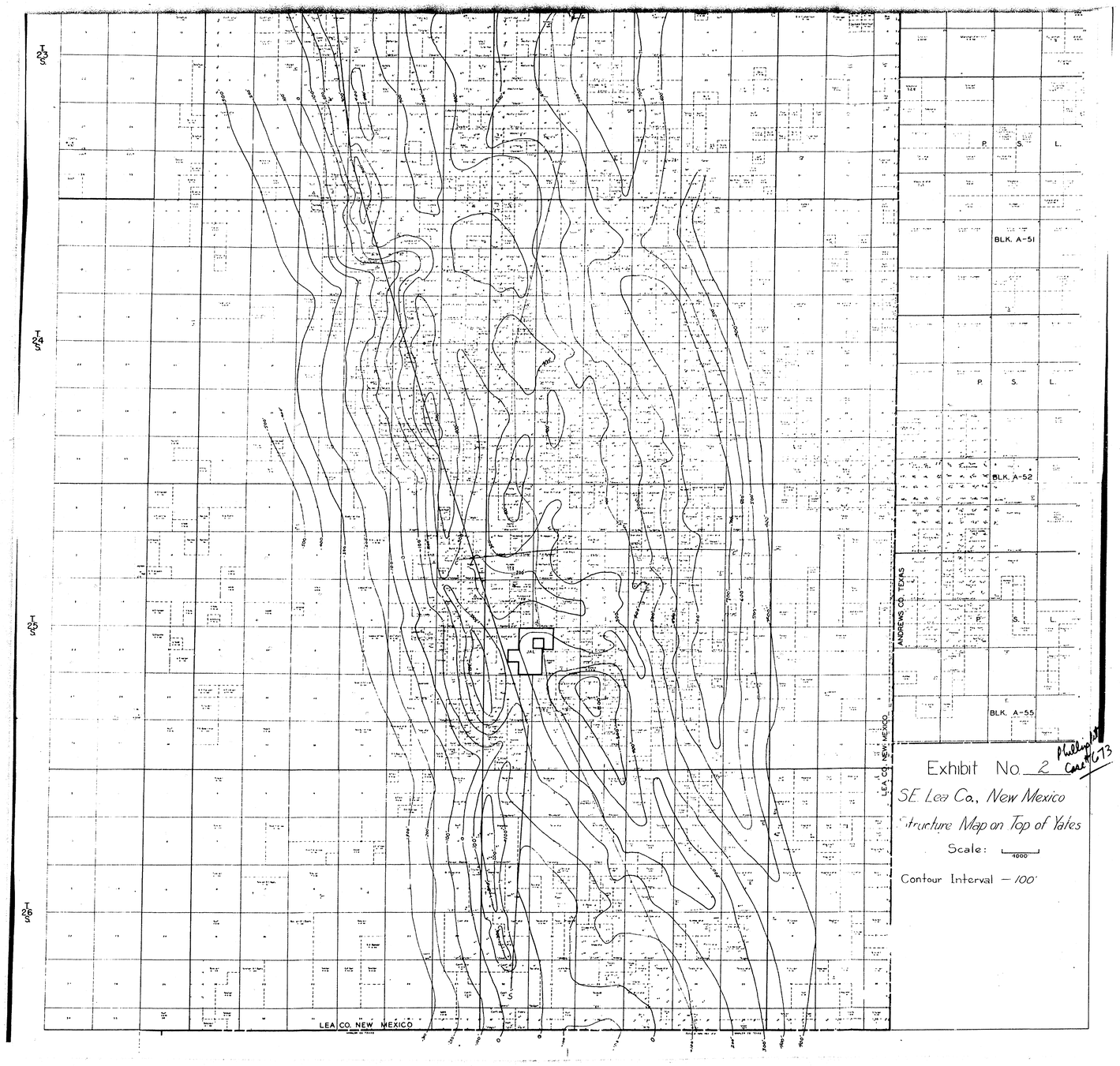


Exhibit No. 2 Phillips Pet Case #673

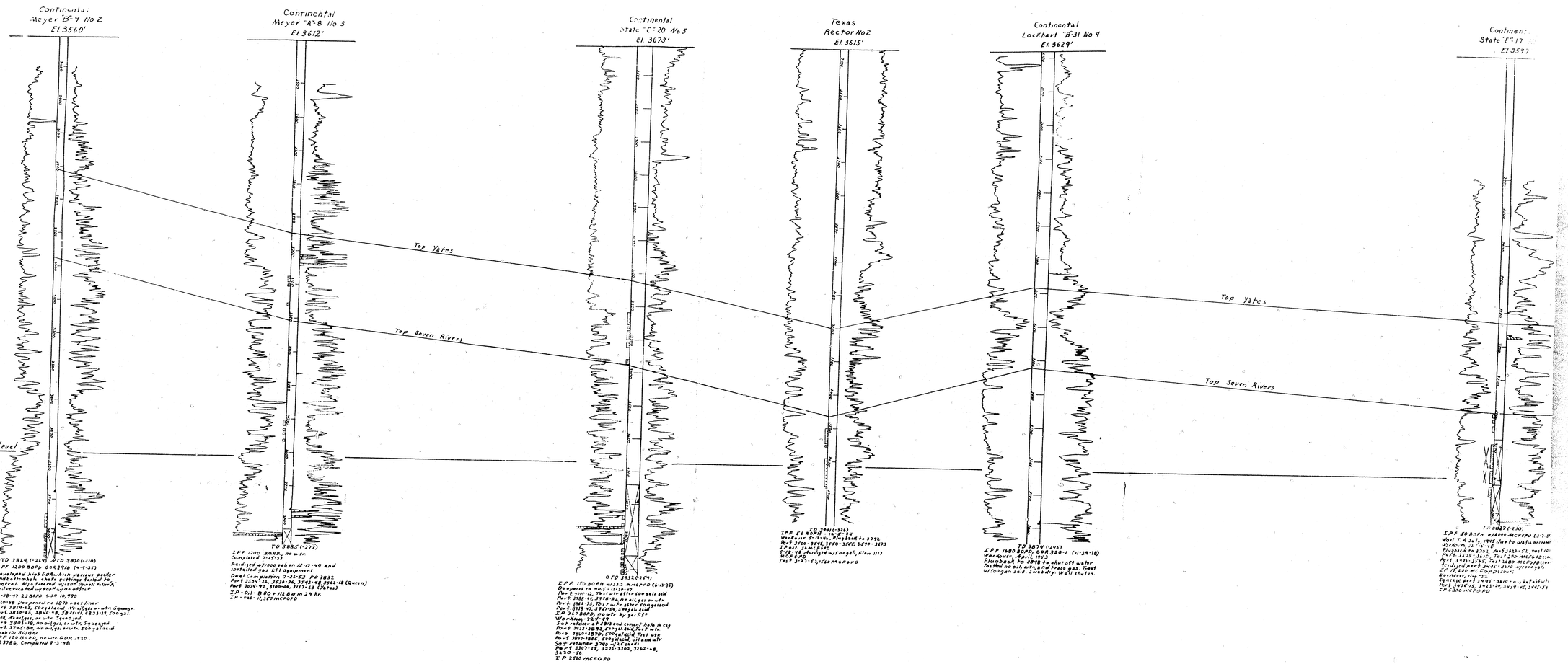
SE Lea Co., New Mexico

Structure Map on Top of Yates

Scale: 1000

Contour Interval — 100'

216


Continental
Meyer "B" 9 No 2
El 3560'
Continental
Meyer "A" 8 No 3
El 3612'
Continental
State "C" 20 No 5
El 3673'
Texas
Rector No 2
El 3615'
Continental
Lockhart "B" 31 No 4
El 3629'
Continental
State "E" 17
El 3597
Top Yates
Top Seven Rivers
Sea Level
Scale
Hor 1" = 1000'
Ver 1" = 100'
DTD 3824 (-264) PTD 3830 (-270)
IPF 1200 BOPD, GOR 291 (4-9-98)
Developed Hag GOR which requires packer and bottomhole choke settings tested to Central. Also treated with 2M Gravel Filler A and retreated w/900# w/no effect
10-18-97 23 BOPD, WC 24 10,990
7-20-98 Deepened to 3870 w/ liner
Perf 3809-65, Coog/sand, Vc oil/gas w/tr Sourng
Perf 3821-43, 3841-98, 3821-41, 4823-39, 500 gal 80/18, Vc oil/gas, w/tr Sweet gas
Perf 3803-18, No oil/gas, w/tr, Squeezed
Perf 3745-84, Vc oil/gas w/tr. 500 gal acid
Swab tst 80 BO/hr
IPF 100 BOPD, No wtr, GOR 1920.
PD 3786, Completed 8-3-98
TD 3885 (-272)
IPF 1100 BOPD, no w tr.
Completed 2-15-55
Acidized w/1000 gals on 11-17-98 and installed gas lift equipment
Dual Completion 7-26-53 PD 3832
Perf 3324'-34, 3328-36, 3792-98, 3262-68 (Queen)
Perf 3074-92, 3180-86, 3167-83 (Yates)
IP - Oil - 880 + 102 Bbls in 24 hr.
IP - Gas - 11,360 MCFGPD
TD 3923 (-274)
IPF 150 BOPH w/22.3 mcfpd (6-11-35)
Deepend to 4016' - 11-30-43
Perf 3911-19, 3978-82, no oil/gas w/wtr.
Perf 3961-73, Tstd w/tr oil/wtr Coog/sand
Perf 3913-17, 3921-24, Coog/sand
IP 350 BOPD, no wtr by 9:15 P
Workover - 2-49-58
Set retainer at 3803 and cement hole in csg
Perf 3923-3893, Coog/sd&Sd, Test wtr
Perf 3861-3870, Coog/sand, Tst wtr
Perf 3811-3866, Coog/sand, Oil and wtr
Sq P retainer 3790 w/ 45 sacks
Perf 3307-28, 3232-3302, 3262-68, 3230-36.
IP 2510 MCFG/PD
TD 3941 (-268)
IPF 64 BOPH - 18.5° API
Workover 5-14-46. Plugback to 3398
Perf 3306-3295, 3270-3302, 3292-3320
IP est. 35 mcf/PD
5-18-98 Acidized w/crosph, Flow 111 MCF GPD
Ref 3-23-51 (15) 15 MCFGPD
TD 3874 (-245)
IPF 1680 BOPD, GOR 330:1 (11-29-18)
Workover, April, 1953
Plugback to 3898 to shut off water
Tested no oil, wtr, and trace gas. Treat w/crosph and Sweetly. Well shut in.
TD 3827 (-270)
IPF 50 BOPH w/GOR MCFGPD (3-7-3
Well T A July, 1945 due to water encroac
Workover 12-20-48
Plugback to 3292, Perf 3222-52, Well fl
Perf 3235'-3245', Test 250 MCFG/PD (5-
Perf 3197-3264', Test 2680 MCFG/PD (5-
Acidized perf 3235'-3245' w/1000 gals
3230-36 MCFG/PD (5-
Workover, May '52
Squeezed perf 3192'-3210' w/ 60 sks Hall
Perf 3167-83, 3143-54, 3149-62, 3197-3
IP 2350 MCFG/PD

217

Continental
State "E" 17 No 5
El 3597'

Continental
Meyer "B" 33 No 1
El 3475

Texas & Pacific Coal & Oil
State "A" A/C-1 No 10
El 3491

Top Yates

Top Seven Rivers

Top Yates

Top Seven Rivers

Top Yates

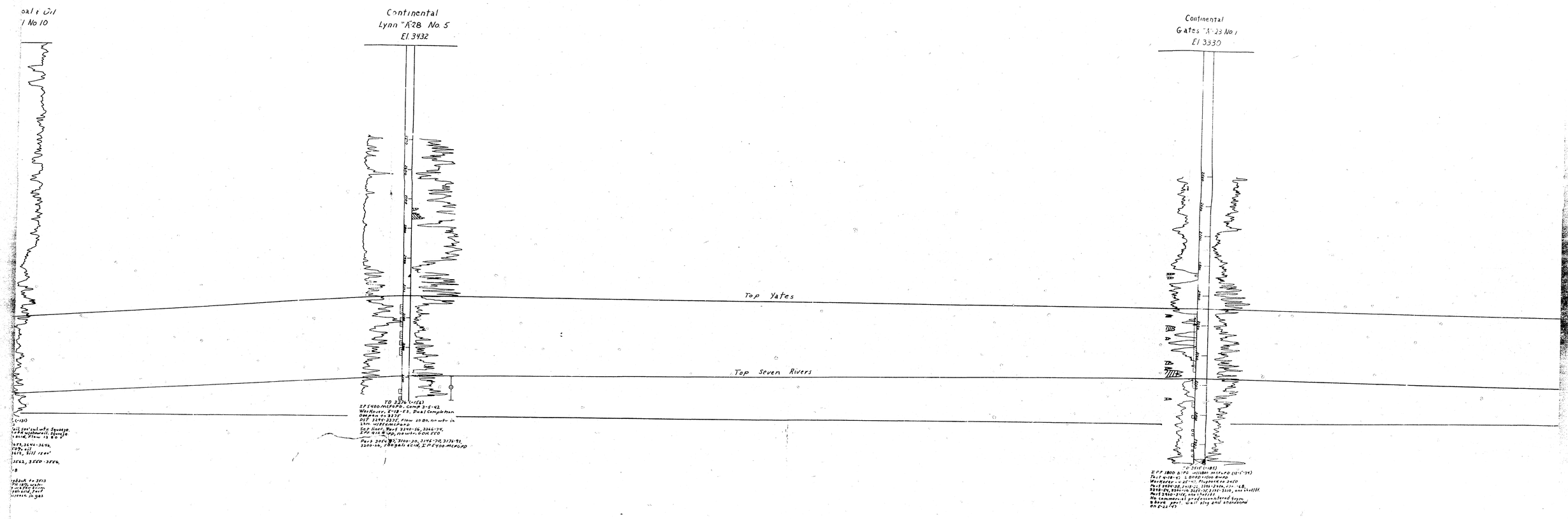
Top Seven Rivers

TD 3827 (-230)

IPF 50 BOPH + 6000 MCFGPD (3-7-59)
Well T.A. July, 1962 due to water encroachment
Workover, 12-15-78
Plugback to 3293, Perf 3252-72, Test 10 BWPH
Perf 3275-3412, Test 200 MCFG PD (Shut)
Perf 3192-3236, Test 5880 MCFG PD (Shut)
Acidized perf 3192-3412 with 4000 gals
IPF 1,200 MCFGPD (Shut)
Worcester, Eng-Sr.
Squeeze perf 3192-3410 w 200 sks cl C w/ 2% CaCl
Perf 3085'-15, 3123-39, 3439-45, 3482-89
IPF 2300 MCFG PD

TD 3578 (-73)
Perf 3320-3330
IPF 17,000 MCFGPD, trace oil & wtr.
Completed 7-1-60
Interval 3613-98 Swab 12 BWPH
Perf 3370-98, 4000 MCF gas, trace oil & wtr.
DST #1 3380-3390, 1500 MCF gas, no wtr.
DST #2 3310-3335, 20' drlg mud, no oil or gas
DST #3 3325-3375, 3980 MCF gas, no oil or wtr.
DST #4 3325-3400, 78 MCF gas, 180' sal wtr
DST #5 3390-3410, 210 MCF gas, flare - 180' sal wtr
DST #6 3405-3420 no oil gas or wtr, rec 60' sal wtr
DST #7 3420-3510, rec. 480' sal wtr. 30' oil
PD 3290 (-185)

TD 3518 (-229)
IPF 1/2 BO + 4 Bw in 24 HRS
Perf 3387-3398, Frac w/ 20,000 gals Versagel & 30,000 # sand
Perf 3434-3438, Sand off, Flow 15 BO + 78 BW, Pump 35 BO
Perf 3474-3526, 3492-3672, 3474-3494, 3432-3494, 600 bbl w/ 60% oil
Perf 3330-3424, 34 shots, 3611 rec. Fluid, 50% oil
Perf 3406-3440, 3558-3562, 3580-3586, Swb 58 BFPH, 50% oil
Squeeze Perf 3224-3518
Comp 11-25-73
Workover - 8-22-ws, Plugback to 3213
Perf 3134-3213, IPF 6 BOPH 48% wtr.
Well had been producing with high wtr cut
Perf 3192-96, 3204-10, 3214-18, 3222-26, 3232-36, all shots to perforate, in 3Bs
TD 3518, no oil and no perforat. in 3Bs
PD 3433 (-139)



oal & Oil
No 10
Continental
Lynn "A" 28 No. 5
El. 3432
Continental
Gates "A" 23 No 1
El 3330
Top Yates
Top Seven Rivers

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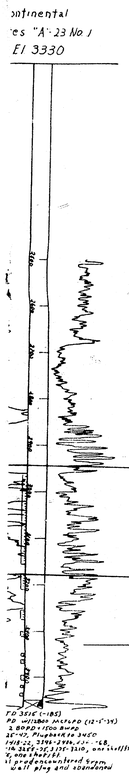
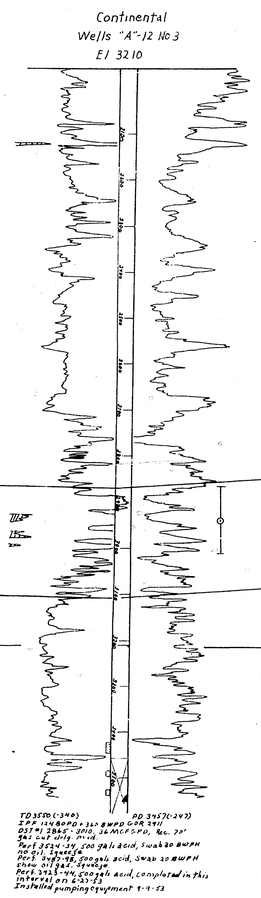
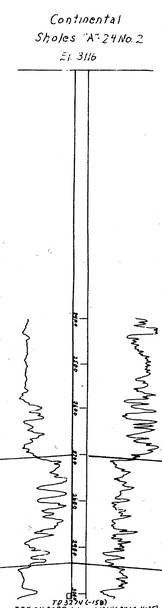






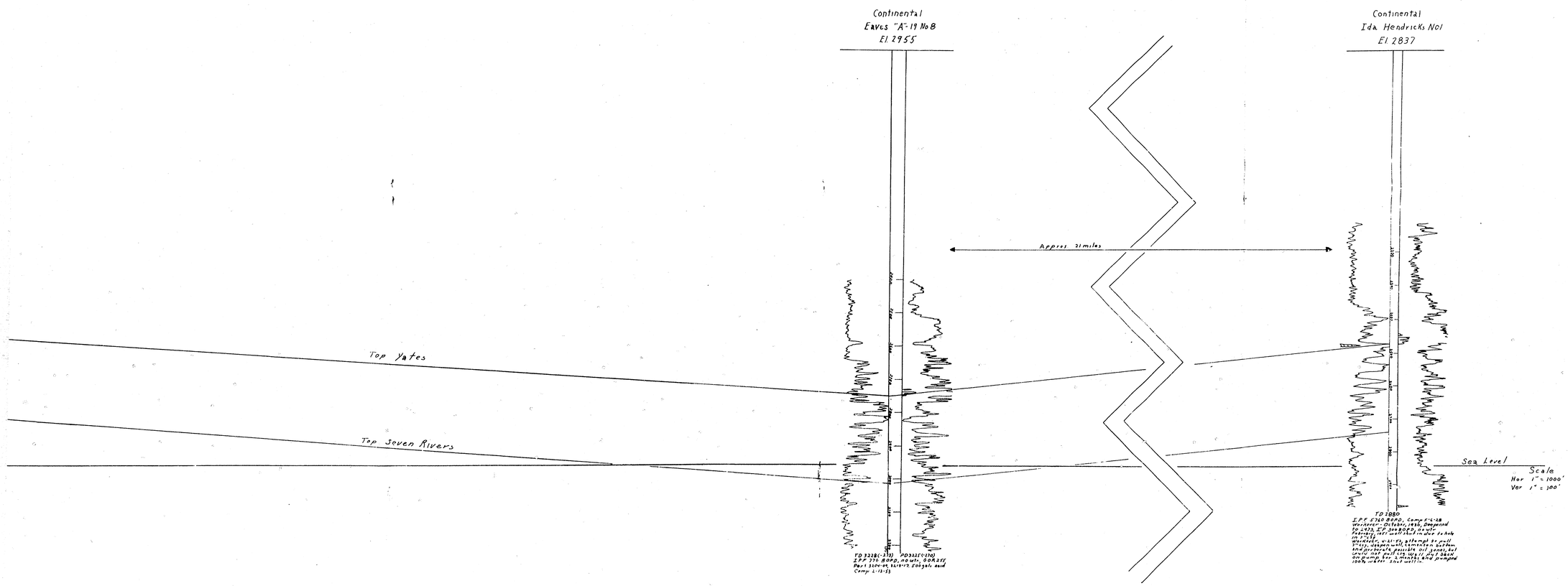
Top Yates

Top Seven Rivers

Top

Top

220


Continental
Eaves "A"-19 No 8
El. 2955
Continental
Ida Hendricks No1
El. 2837
Approx. 21 miles
Top Yates
Top Seven Rivers
Sea Level
Scale
Hor 1" = 1000'
Ver 1" = 100'
TD 3228(-273) PD3225(-270)
IPF 776 BOPD, no wtr, GOR 255
Part 3204-08, 3218-17, 500 gals acid
Comp 2-13-53
TD 2880
IPF 5760 BOPD, Comp 5-6-28
Workover - October, 1936, Deepened
to 2473, IP 300 BOPD, no wtr
February, 1957 well shut in due to hole
in 7" csg
Workover, 4-21-57, attempt to pull
7" csg, deepen well, cement bottom
and perforate possible oil zones, but
could not pull csg. Well put back
on pump for 2 months and pumped
100% water. Shut well in.

EXH. NO. 14

SHELL STATE 'H'#1 (3603) | CONT. LOCKHART 'A'18 #4 (3619) | CONT. LOCKHART 'A'18 #5 (3628) | CONT LOCKHART 'A'18 #2 (3628) | CONT. LOCKHART 'A'18 #1 (3633) | CONT. MEYER 'A'17 #1 (3647) | CONT. MEYER 'A'17 #4 (3648) | TIDEWATER-COLEMAN #1 (3632) | TIDEWATER-COLEMAN #4 (3627) | SKELLY STATE 'B' #2 (3619) | SKELLY STATE 'B' #6 (3613) | SKELLY STATE 'B' #5 (3599) | GETTY STATE 'C' #1 (3588) | GULF BELL STATE 'C' #2 (3582) | GULF BELL STATE 'C' #4 (3574) | CONT STATE 'D' 15 #5 (3580) | CONT STATE 'D' 15 #1 (3584) | CONT. LOCKHART 'B' 14 #1 (3576) | GULF COLLINS #1 (3568) | GULF COLLINS #3 (3560) | CONT LOCKHART 'B' 14 #4 (3561)

JALCO

EUMONT

yates, 7R sds, t Grbg

EUMONT

yates, 7R sds

EUNICE MONUMENT

7R-Grbg-SA

Top of Yates

Top of Queen

Top Grayburg

SEA LEVEL

18% Ow

PBD

TD(-351)

Show gas +163 to +150
Ac -301 treated w/ total of 10,000 gal acid. After acid tested 103 Mcf Fluid/24 hrs. 3% BS&W.
At -351 tested 127 bbl Fluid / 24 hrs. 18% water. PB to -316. Treated 3,000 gal acid
IPF 240 BOPD w/ 3,000 MCF from below gbr @ -303.
Comp 5-9-36

TD(-308)

Show gas + 309 to + 291
Show gas +216
Show oil +119
Show gas +106 to +84
Show oil & gas -11 to -11
Show gas -29 to -53
Show oil & gas -135 to -165
DST -135 to -181, 290 MCF
Tested 185 no-293 GL
2 BOPH
Treated total 9,000 gal acid
IPF 201 BOPD w/ 785 MCF
Comp. 3-27-36

TD(-307)

DST -166 to -212
open 10 min. Rec 550' oil, 228 MCF gas
IPF 75 BOPH w/ 823 MCF gas
Comp. 7-15-36
1-30-40, 100 % wtr. On 8-7-40 PB to -248
Recomp 15 BO 3E BW in 5 hr. GL

TD(-296)

Show oil +606
Show gas +449, -337, and +606 to -198.
DST -212 to -252
drill pipe full w/ 10 min
IPF 44 BOPH w/ 1450 MCF gas
Comp 12-19-36

TD(-357)

Tested 9,000 MCF @ +455
Show gas +465 to +455, and +433 to +386
Gas @ +196 est 10 MMCF
IPF 422 Bbl fluid 52 %
dry load in 12 hrs w/ 8,000 MCF gas
Comp. K. B. 3531
Apl. 1931 Set string 5½ @ +355. Reduced gas to 500 MCF
IPF 558 Bbl fluid, 17% wtr

TD(-354)

Show gas +625
Gas +619 to +607 est 15,000 MCF
Gas +592 to +569 rest 31,000 MCF total
Increased gas +106 to +90
Tested 71,000 MCF/D 203
Set csg @ -251
Tested 68,000 MCF/D -215
IPF 965 BO & 16 hr
Comp 1-3-30.

TD(-349)

Show gas +638 to +633, +568, & +385
Wall Blew out @ +348
Show gas +372 to +263 and -36 to -59
Tested -202 to -306 no oil, gas or wtr.
Tested -202 to -303 no oil, gas or wtr.
Acidized 1,000 gal.
Swab 30 BOPD & 20 BWPD
Tested -202 to -369 no increase.
Acidized w/ 3,500 gal
Swab 150 BO, 25 BWPD
Aug. 1936 pumped 30 BO, 12 BWPD
PB to -334, Shot -202 to -216 w/ 320 qts.
IPF 93 BO 7 BWPD

Sul W

PBD

TD(-515)

Slight show gas +642
Show gas +577 to +535
Gas +487 to +463 est 10 MMCF
Before shot flowed 375 BOPD
Shot 75 qts -238 to -338
Shot 175 qts -268 to -336
IP 1615 BOPD
Sulfur wtr. -358 to -400 & -503 to -515
Comp 10-14-36.

PBD

TD(-536)

Show gas +479, +390, +288, +243, & +230.
IP 496 BOPD after recvd. wtr 300 MCF
Comp. 1-15-35

TD(-383)

IPF 30 BOPH w/ est 1,000 MCF gas
Comp 5-1-35

TD(-393)

Show gas +554
IPF 49.9 in 13 hrs w/ est 800 MCF gas
Comp 2-19-36

TD(-395)

Show gas +539 to -29
Show wtr & gas -75 to -56
IPF 128 BOPH w/ est 3000 MCF gas.

TD(-301)

IPF 485 bo in 5 hr.
Comp. 2-23-36

TD(-298)

IPF 380 BO + 6 hr w/ 1,230 MCF gas
Comp 4-21-36

TD(-287)

Show gas +131 to +59
Tested 110 BO in 12 hr w/ 850 MCF gas
Acidized 2,000 gal
IPF 506 BO +G hr, wtr 1,326 MCF gas
Comp 1-11-37

TD(-300)

Show gas +135 to +94 no +64
DST -120 to -175
flowed 25 BOPH & 768 MCF
IPF 64 BOPH w/ 1,310 MCF
April 1943 flowed 43 BOPD w/ 569 MCF
Pkr set @ -1112.
Flowed 40 BOPD w/ 128 MCF.

TD(-300)

Show gas +195 to +166
DST -166 to -206
10,000 MCF, no oil
DST -206 to -246, gas in 10 min, 105 MCF, 340
Fluid 35.7% wtr
IPF 60 BOPH w/ 2,071 MCF. Comp. 7-15-36.
MAY 1944 Pkr. set @ 224 GOR reduced from 11,090 to 4,510.

TD(-301)

DST -102 to -149, 25 MCF gas, no oil
IPF 15 BOPH, 915 MCF
Comp 6-6-36

TD(-294)

Show gas +138, & +103 to +88
wtr 993 MCF
Comp 3-16-36

TD(-282)

Treated 1,000 gal acid
Tested 60 BO +8 hrs
Retreat 2,000 gal acid
IPF 35 BO + 8 hrs
Comp 10-5-36

TD(-300)

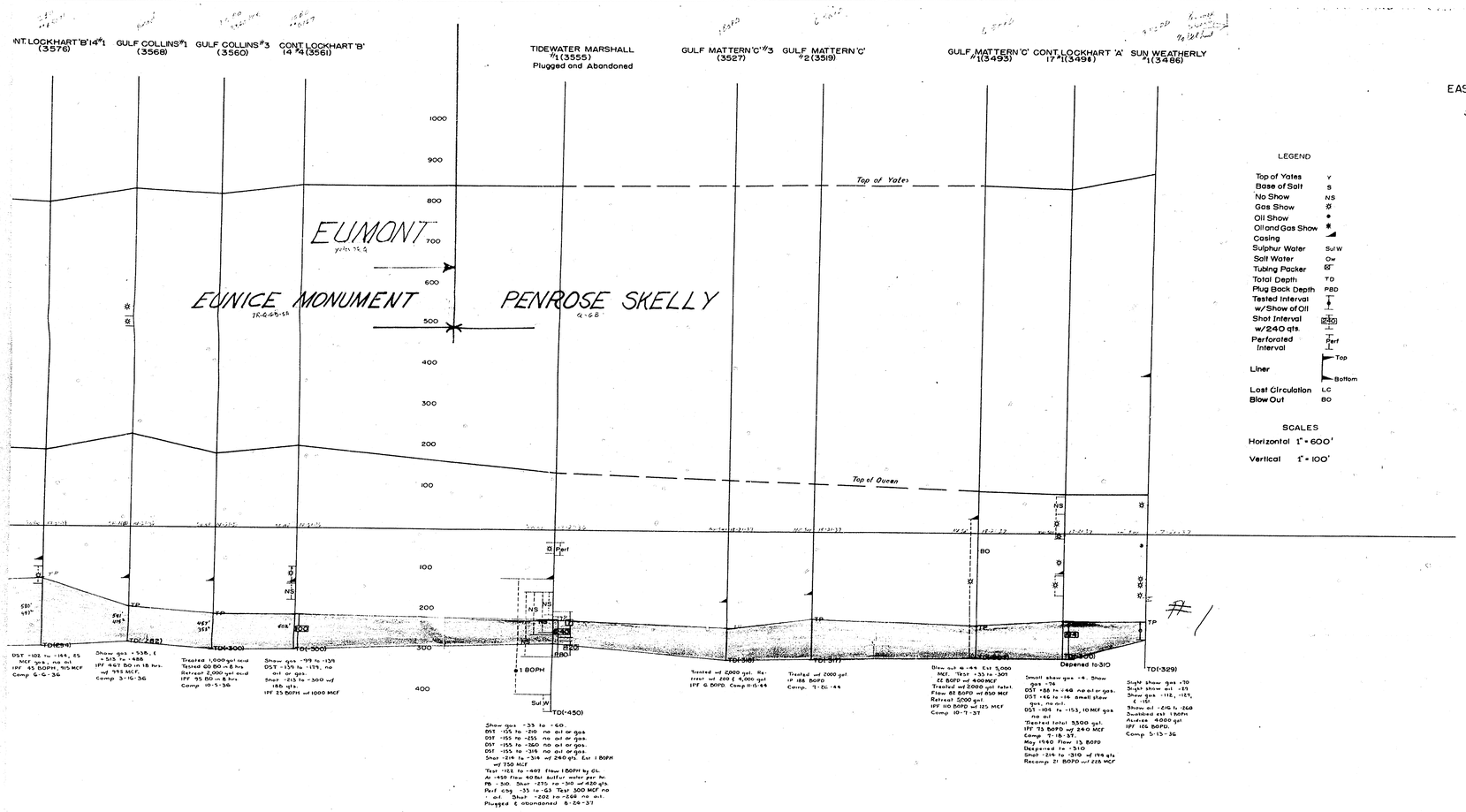
Show gas +179 to +129
DST -139 to -179 no oil no gas
Shot -215 to -300 w/ 180 qts
IP 25 BOPH w/ 1000 MCF

TD(-300)

222

EAST-WEST SECTION T-21

Scale Vertical 1"=100'
Horizontal 1"=600'



LEGEND

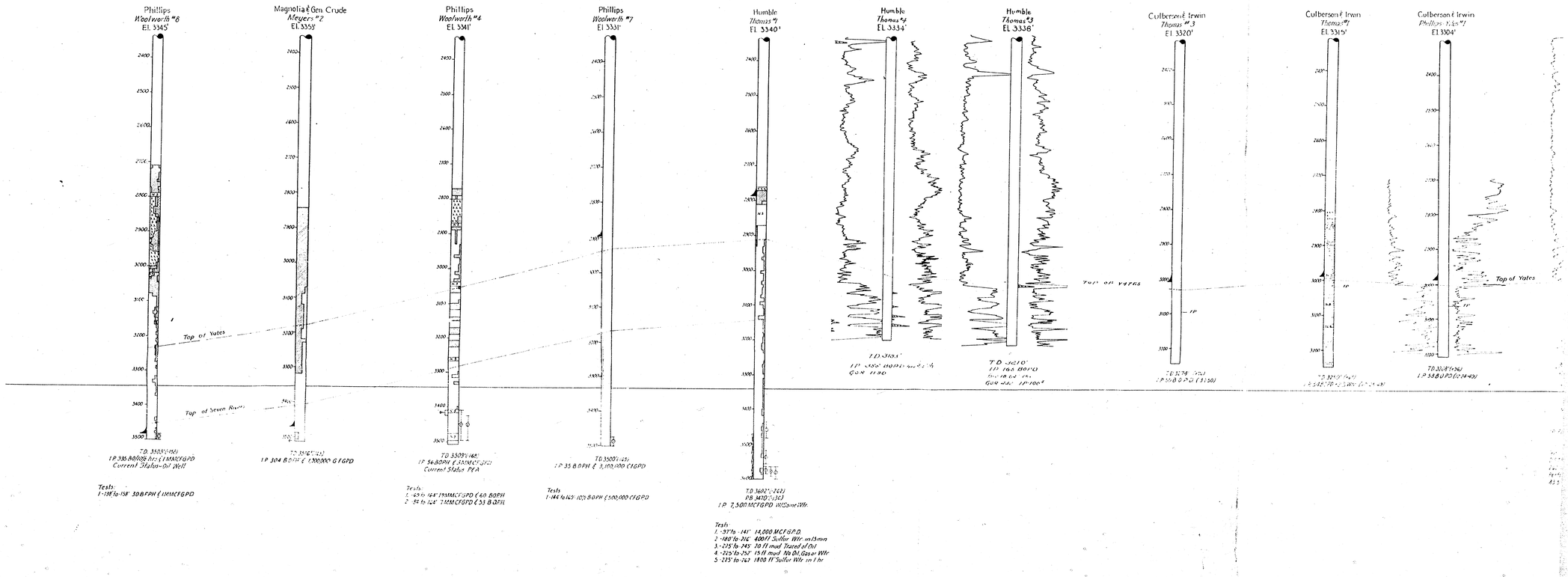
Top of Yates	Y
Base of Salt	S
No Show	NS
Gas Show	✲
Oil Show	●
Oil and Gas Show	◢
Casing	
Sulphur Water	Sul W
Salt Water	Cw
Tubing Packer	⊠
Total Depth	TD
Plug Back Depth	PBD
Tested Interval w/Show of Oil	
Shot Interval w/240 qts.	240
Perforated Interval	Perf
Liner	Top / Bottom
Lost Circulation	LC
Blow Out	BO

SCALES

Horizontal 1" = 600'

Vertical 1" = 100'

223



224

Case 613

CONSERVATION OIL STATUTE

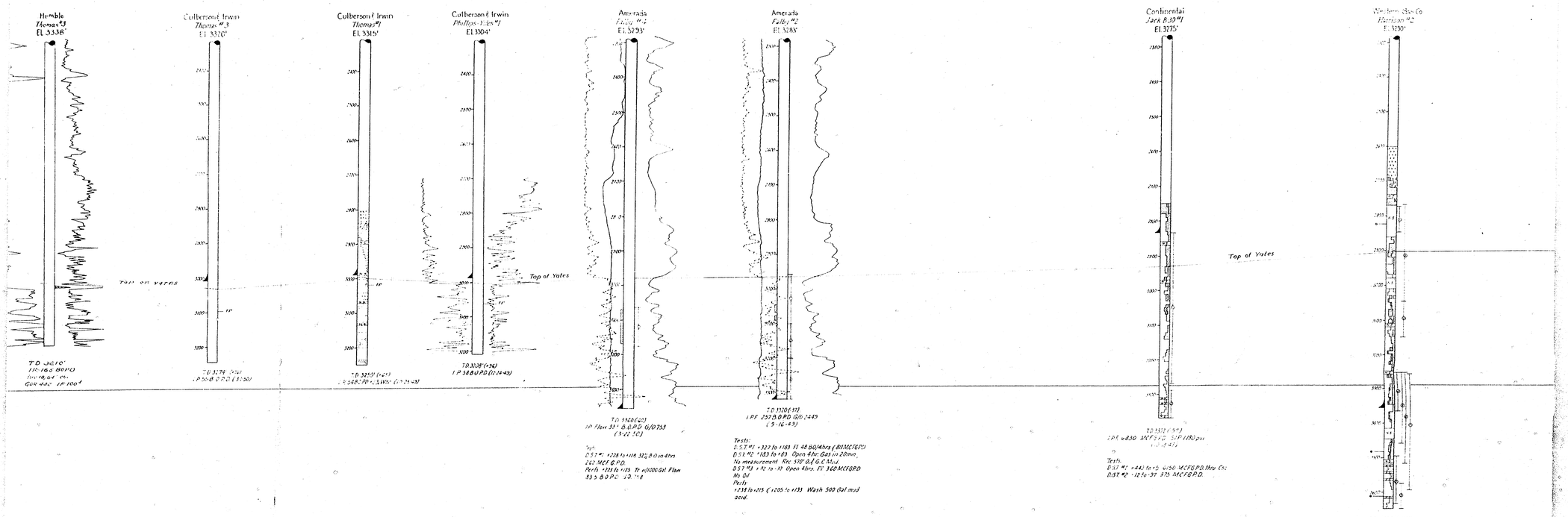
INITIAL OR UNITS

(c) The allocation to a pool or pools after subtracting the allocation of marginal units shall be divided and allocated ratably among the non-marginal units in the amount that the acreage contained in each unit bears to the total acreage allotted to such non-marginal units; provided that for this purpose standard units as defined in Rule 600 above shall be deemed to contain 640 acres. For purposes of uniform allowable to be set, the unit of proration shall consist of not less than 160 acres nor more than 640 acres. More than one proration unit may be assigned to a well and the allowable assigned each well may be increased proportionately provided that:

(1) All acreage in such units may reasonably be presumed to be productive of gas; and

(2) the multiple unit so formed shall not have an overall length or width exceeding 5280 feet; and

(3) the well to which such additional units are assigned shall be located not closer to any boundary of such pooled units than the distance arrived at by 50% of the length of the longer of the two boundaries of said pooled unit unless are adjacent to said first mentioned boundary. Provided further that where three proration units are pooled the well shall not be located more than 1650 feet from the nearest boundary of any unit so pooled.


Humble
Thomas #3
El. 3336'
Culberson & Irwin
Thomas "A" 3
El. 3320'
Culberson & Irwin
Thomas #1
El. 3315'
Culberson & Irwin
Phillips Yates #1
El. 3304'
Amerada
Felby #1
El. 3293'
Amerada
Felby #2
El. 3283'
Continental
Jack B.D. #1
El. 3275'
Western Gas Co
Harrison #2
El. 3290'
Top of Yates
T.D. 3610'
I.P. 165 BOPD
Gor 432 IP 100#
T.D. 3278' (-54)
I.P. 558 B.O.P.D. (1-1-50)
T.D. 3259' (+21)
I.P. 348 B.O.P.D. + 5 MCF (1-25-49)
T.D. 3308' (+26)
I.P. 588 B.O.P.D. (10-14-49)
T.D. 3308 (+25)
I.P. 257 B.O.P.D. G/O 758
(3-22-50)
Tests:
D.S.T. #1 +328 to +418 30 min 4 hrs
20 MCF G.P.D.
Perfs. +203 to +215 Tr. 4/1000 Gal. Flow
93.5 B.O.P.D. 40 °A.P.I.
T.D. 3320 (-12)
I.P. 257 B.O.P.D. G/O 2445
(5-16-49)
Tests:
D.S.T. #1 +327 to +383 FI 48 BO/48hrs (80 MCFGPD)
D.S.T. #2 +383 to +393 Open 4 hrs. Gas in 20 min.
No measurement. Rec. 930' O.C.M.
D.S.T. #3 +10 to -35 Open 4 hrs. TS 340 MCFGPD
No Oil
Perfs
+238 to +215 (+205 to +133 Wash 500 Gal mud
acid.
T.D. 3312 (-57)
I.P.F. w/830 MCF & TP 550 PSI (1150 psi
(-1-49)
Tests
D.S.T. #1 +44 to +5 w/150 MCFGPD thru Co
D.S.T. #2 -12 to -39 375 MCFGPD.
T.D. 3430' (-302)
I.P.F. 14 300 MCFGPD thru Lig. TP 1150 psi
also Shows I.P.F. 10 MCFGPD thru 3/4 orig
(2-16-37)
Tests
D.S.T. #1 +320 to +414 250 MCFGPD
D.S.T. #2 thru csg. +328 to +247
20 MMCF/DPD
D.S.T. #3 +247 to +145 5 MMCFGPD
D.S.T. #4 +34 to -75 T.S.T.M. Gas
D.S.T. #5 +34 to -170 5250 MCFGPD
D.S.T. #6 +34 to -235 6 MMCFGPD
Show of Oil at -153
D.S.T. #7 +32 to -307 4250 MCFGPD
Show Oil at -325
D.S.T. #8 -206 to -343 18 MCFGPD
D.S.T. #9 -293 to -360 Rec 60' fluid
SI Show Gas

225

Western Gas Co
Harris #2
El 3230'

Two-States
Gulf "A"
El 3230'

Continental
Jack A-32 #2
El 3229'

Continental
Jack A-32 #3
El 3206'

Continental
Jack A-29 #1
El 3237'

Shell
Black #3
El 3232'

Shell
Black #2
El 3199'

Plains Prod Co
Knight #3
El 3218'

Plains Prod Co
Knight #4
El 3220'

Standard
Meyers #A
El 3216'

Top of Yates

Top of Queen

T.D. 3430' (-360)
I.P.F. 4 900 MCFGPD thru 4/64" ck w/ 420psi and Shows. IPF 3684 MCFGPD thru 24/64" ck w/ 410psi (7-18-37)

Tests:
D.S.T. #1 +2074 to +2116' 350MCFGPD
D.S.T. #2 thru csg +3286 to +2947' 20 MMCF GPD
D.S.T. #3 +2473 to +2442' 2 MMCFGPD
D.S.T. #4 +34 to -75' T.S.T.M. Gas
D.S.T. #5 +2972 to +2776' 525 MCFGPD
D.S.T. #6 +34 to -233' 6 MMCFGPD
Show oil at -193'
D.S.T. #7 +2726 to +2531' +350 MCFGPD
Show Oil at -325'
D.S.T. #8 -208 to -369' 18 MCFGPD
D.S.T. #9 -239 to -369' Rec 60' fluid
SI Show Gas

T.D. 3435 (-352')
I.P.F. 30 B.O.P.D. & 125 MCF.G.P.D. (3-14-37)
Show Gas at +2051'
Show Gas +2013 to +2018'

Tests:
D.S.T. #1 Thru tbg. -2716 to -3017' 2.5 MCF/D P.D. & 30 B.O.P.D. Natural Treated w/2000 Gal. Small Increase Shot w/40 Qts From -2417 to -2727'

T.D. 3535' (-358')
I.P.F. 150 B.O.P.D. & 750 MCF.G.P.D. thru tubing (5-1-37)

Tests:
D.S.T. #1 Thru Csg. -2376 to -2515' 1.5 MCF/D P.D. & 1400 C.F. P.D.
D.S.T. #2 Thru Csg. -2281 to -2615' 1580 MCF/D & 355 MCF/BPD
D.S.T. #3 Thru Csg. -2027 to -2181' 580 P.D. & 580 MCF/BPD
D.S.T. #4 Thru Csg. -2476 to -2615' 237 B.O.P.D. & 1620 MCF/BPD Shot -2476 to -2681' w/ 70 Qts.
D.S.T. #5 After Shot thru tbg. -2216 to -2615' 128 B.O.P.D. & 1530 MCF.G.P.D.

T.D. 3555' (-327')
I.P.F. 20 B.O.P.D. & 150 M.C.F.G.P.D. (5-12-38)
Rework - Sept. -1942 - Cleaned out to T.D. (-322') Tested 10 B.O.P.D. & 140 MCFGPD
Show Gas +342 to +414'

Tests:
D.S.T. #1 Thru Csg. +31 to -300' 5.9 MCF/GPD, Small Show of Oil
D.S.T. #2 Thru Csg. +33 to -320' 50 BHCP & 20 GL
Shot -322' to -332' w/ 180 Qts.

T.D. 3536' (-303')
New T.D. 3705' (-456')
I.P.F. 35 B.O.P.D. & 90 MCF.G.P.D. (11-22-37)

Tests:
D.S.T. #1 -23' to -305' Swb. 70 B.O.P.H., Natural
Shot -158' to -308' w/ 330 Qts.
Reverse:
A. Before workover produced 21 B.O.P.D., Cleaned out to T.D. on Oct. 1939. Gil 44 B.O.P.D. (Jetting)
Two weeks later, prod. 28 B.O.P.D. (Jetting)
B. Install pump Jan. 1940 P.P. 34 B.O.P.D. Rapid decline to 20 B.O.P.D.
C. Nov. 1940, ppg 10 B.O.P.D. Clean out to T.D. Install Vacuum G.L. Prod. 13 B.O.P.D.
D. April 1942, Gil 6 B.O.P.D.
E. April 1946, Gil 3 B.O.P.D.
F. June 1946 - D.O. to -458' Shot -308' to -414' No Prod
G. (1) Perf. +126 to +47' No Gas (2) Perf. +125 to +87' No Gas
Acid (2 Spots (3) Perf. +134 to +125' 134 MCF.G.P.D.
Nat. (2 Spots (4) Perf. +143' to +170' 1218 MCF.G.P.D.
(Inc. 470') Nat. (2 3/4" 4 Open (5) Perf. +178' to +180' 1230 MCF/GPD
(Inc. 420') Nat. (2 1/4" 4 Squirt (6) Perf. +181' to +230' 1230 MCF/GPD
(Inc. Inc.) Nat. 4 Open (7) +207' to 217' (480 MCF/GPD (inc 50) thru 3 open
(8) +216' to 217' 2300 MCF/GPD (inc 1001' Surface Gas) (9) +227' to +247'
2580 MCF/GPD (No Inc.) (10) thru 3 open (11) Ripped w/ Csg perf. +170' to -145', +147' to +133' 1M +400 MCF/GPD SIP 1055 psi, +206' to 232' Back Press Test Diff. 6-15-38

T.D. 3562' (-333')
I.P.F. 102 B.O.P.D. & 76 MCF.G.P.D. (4-25-37)
SI Sh Oil (1) +507' to 502', SI Sh Gas +312'
Sh Gas +284' to +279' Est. 8 MMCF/GPD
Inc Gas +129', SI Sh Oil +124'
Sh Gas -193' to -204', Show Oil -276'

T.D. 3484' (-965')
I.P.F. 2 B.O.P.D. & 102 MCF/GPD (4-15-37)
Test:
D.S.T. #1 -1 to -254' -252 B.O.P.D. Show Gas +159', 500 MCF/G.P.D.
Inc Gas +134', 2500 MCF/GPD Est.
Show Gas +55', Show Gas -192'
Show Oil & Gas -218' Inc Oil -238'

T.D. 3535' (-317')
I.P. Flow 281 B.O./12 hr. Est 1 MMCF/GPD (1-4-37)
Show Gas +169', Show Oil -178', Sh Oil -182' to 192', Strong blow Gas -212'
Aug. 1938' Deepened to 317', Inc Oil -247' to 252'
Gas pipe fr. 250 B.O.P.D. + 5 MMCF/GPD
Before work Flow 100 ± P.D.

T.D. 3589' (-359')
I.P.F. 250 B.O.P.D. & 1 MMCF/GPD thru Csg (1-20-37)
Show Gas +615', Show Oil -2151' to -221'
Show Oil -2291' to -2551', Show Oil -362' to -378'
Test #1 -50' to -355' Flow 50 B.O.P.D.
Shot -205' to -347' w/ 300 qts

T.D. 3565' (-327')
I.P.F. 135 B.O.P.D. & 140 M.C.F.G.P.D. (5-22-37)
Tests:
D.S.T. #1 -100' to 200' No Oil or Gas
D.S.T. #2 -121' to -315' No Oil or Gas
Shot -205' to -307' w/ 200 Qts

Top of Yates

Top of Queen

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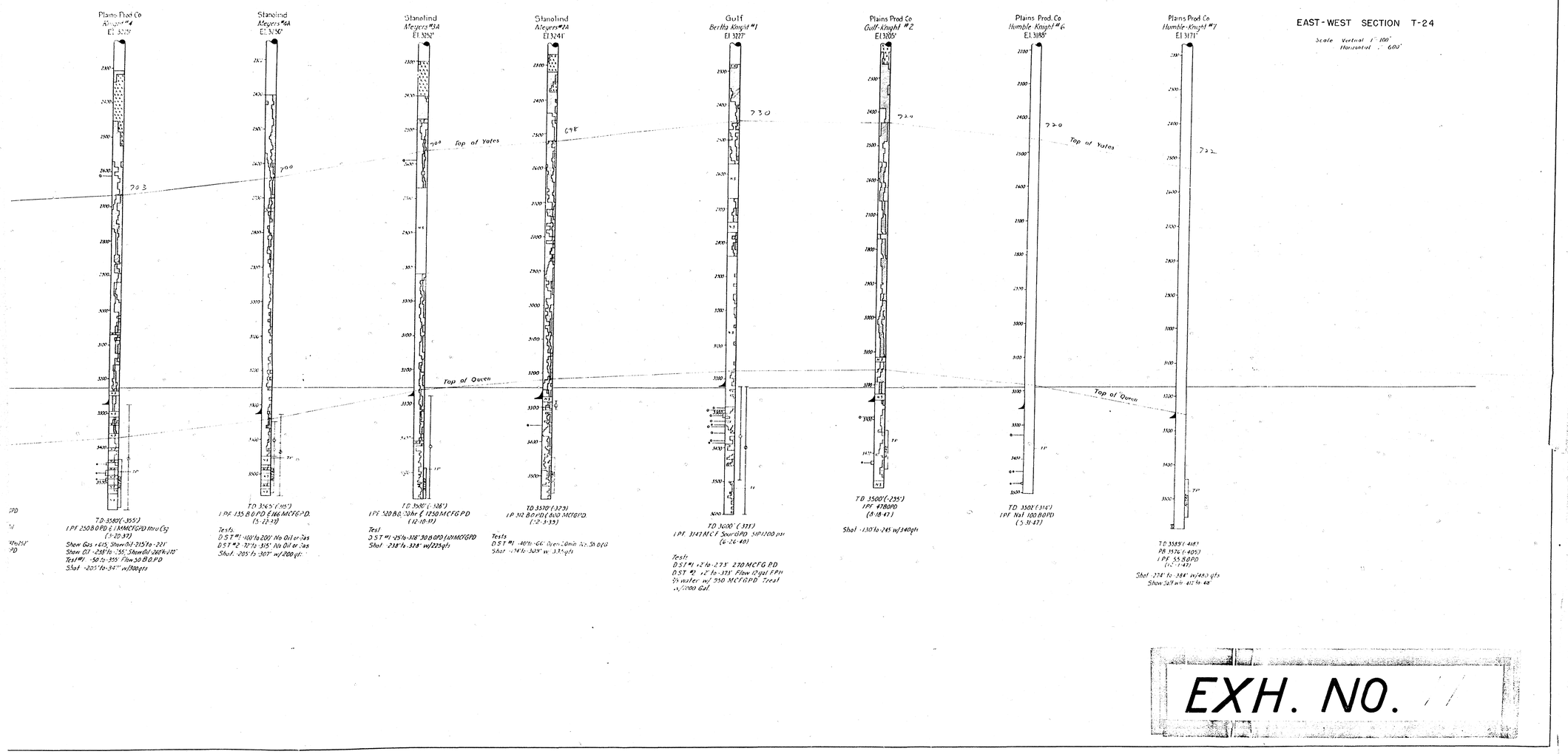
EAST-WEST SECTION T-24
Scale Vertical 1" = 100'
Horizontal 1" = 600'
Plains Prod Co
Knight #4
El 3225'
Stanolind
Meyers #4A
El 3250'
Stanolind
Meyers #3A
El 3252'
Stanolind
Meyers #2A
El 3241'
Gulf
Bertha Knight #1
El 3227'
Plains Prod Co
Gulf-Knight #2
El 3205'
Plains Prod. Co
Humble Knight #6
El 3188'
Plains Prod Co
Humble-Knight #7
El 3171'
Top of Yates
Top of Queen
703
700
698
730
720
722
T.D. 3580' (-355')
I.P.F. 250 B.O.P.D. & 1 MMCFGPD Inru Cs
(5-20-37)
Show Gas +615; Show Oil -215' to -221'
Show Oil -238' to -255'; Show Oil -268' to -270'
Test #1 -50' to -355' Flow 50 B.O.P.D.
Shot -205' to -347' w/300 qts
T.D. 3565' (-315')
I.P.F. 135 B.O.P.D. & 166 MCFGPD.
(5-22-37)
Tests
D.S.T. #1 -100' to 200' No Oil or Gas
D.S.T. #2 -72' to -315' No Oil or Gas
Shot -205' to -307' w/200 qts
T.D. 3580' (-326')
I.P.F. 520 B.O. 20 hr & 1250 MCFGPD
(12-10-37)
Test
D.S.T. #1 -25' to -328' 30 B.O.P.D. & 121 MCFGPD
Shot -238' to -328' w/225 qts
T.D. 3570' (-329)
I.P. 312 B.O.P.D. & 600 MCFGPD.
(12-3-39)
Tests
D.S.T. #1 -40' to -66' Open 20 min No. Sh O & G
Shot -194' to -309' w/ 335 qts
T.D. 3600' (-373')
I.P.F. 3147 MCF Sour GPD SIP 1200 psi
(6-26-40)
Tests
D.S.T. #1 +2' to -273' 270 MCFG PD
D.S.T. #2 +2' to -373' Flow 12 gal FPH
5% water w/ 950 MCFGPD Treat
w/1000 Gal.
T.D. 3500' (-295')
I.P.F. 47 B.O.P.D.
(8-18-47)
Shot -130' to -245' w/340 qts
T.D. 3502' (-314')
I.P.F. Nat 100 B.O.P.D.
(5-31-47)
T.D. 3589' (-418')
P.B. 3576' (-405')
I.P.F. 55 B.O.P.D.
(12-1-47)
Shot -274' to -384' w/480 qts
Show Salt w/r -412' to -48'

EXH. NO. 11

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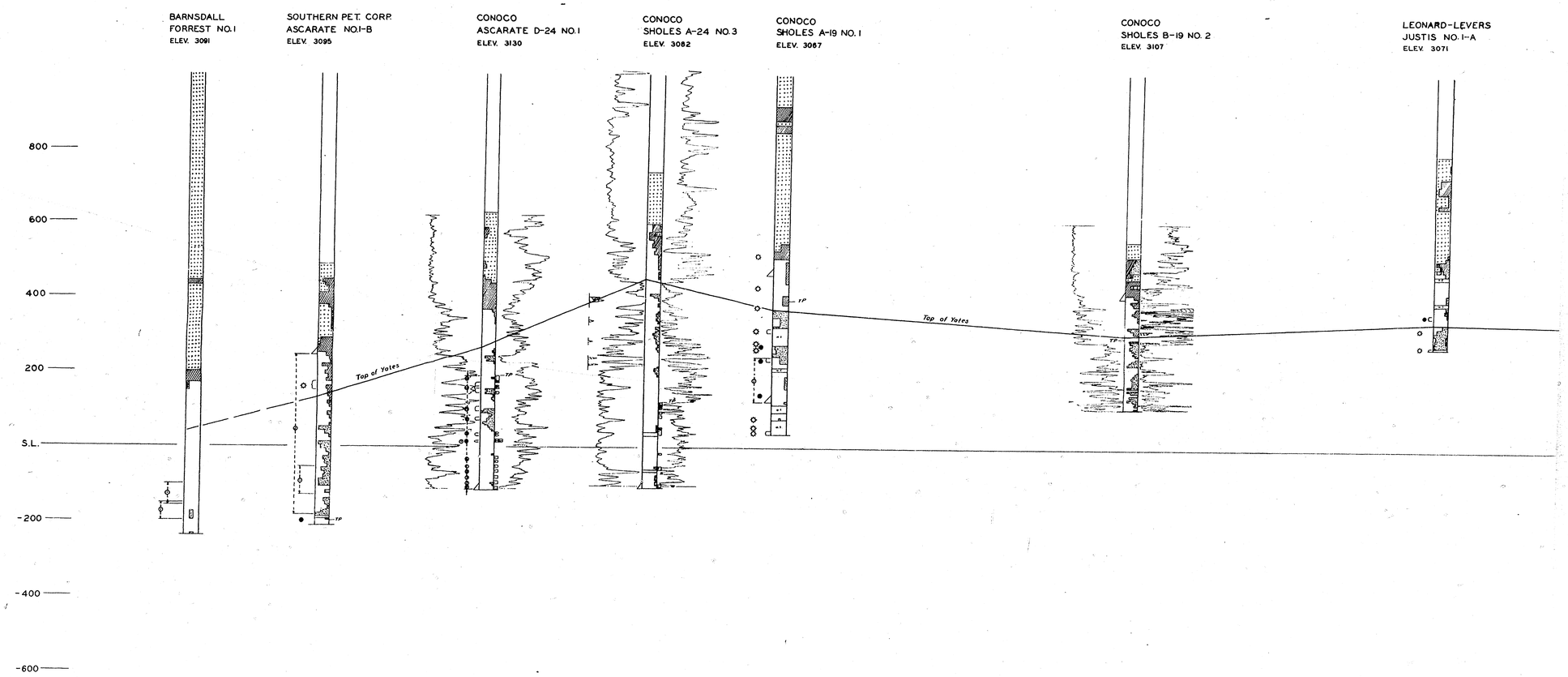

Test #1: -101 to -159 gyd. 13 MMCFGPD
Test #2: -151 to -199 2 MMCFGPD
+1000 BOPD

Show gas +173 to +151
DST #7: -55 to -129 open 15 min.
Rec. 200' oil cut mud.
Test #2: +248 to -184 5 MMCFGPD
Comp.: +248 to -211 30 BOPH
Est. 1 MMCFGPD
Date: 4-17-35

Test #1: Perf. -106 to 113 Swb 12 BWPH
Test #2: Perf. -90 to -100 Swb 10 BWPH
Test #3: Perf. -77 to -84 Flow 8.80 + 72 BW/4hr
Test #4: Perf. -60 to -67 Swb. 15 BWPH
Test #5: Perf. -48 to -54 Swb 15 BWPH
Test #6: Perf. -36 to -42 & -24 to -32
Swb 15 BWPH
Test #7: Perf. -14 to +12 & +19 to +16
Treat 500 gal. 390 MCFGPD
Re-treat 1000 gal. 2850 MCFGPD
Test #8: Perf. +31 to +28 & +38 to +34
& +14 to +12 & +19 to +16
Tested 2850 MCFGPD
Treat 3000 gal. Tested 15 BWPH
Test #9: +84 to +78 & +74 to +72 12 BWPH
Test #10: +107 to +94 Treat 500 gal. Dry
Test #10: Perf. +148 to +140
+159 to +154
+166 to +162
+174 to +170
1800 MCFGPD
Comp: Perf. +190 to +178 in addition to #10
2070 MCFGPD SIP CP 980 psi.
Date: 1-17-48
On 6-19-53: OFP 960 MCF SIP 343.3

1. Perf. -98 to -106 Swb. 31 BWPH
2. Perf. -50 to -60 Swb 14 BWPH
3. Perf. -14 to -19 Swb. 15 BWPH
4. Perf. +55 to +52 } Swb. 15 BWPH
+49 to +35 }
5. Perf. +96 to +92 } Swb. 12 BWPH
+86 to +80 }
Completion: Perf. +121 to +117
+115 to +112
+110 to +105
Flow 212 Bo/4hr
895 MCFGPD
Date: 9-22-47

Show gas +517 Brown lime
Show gas +432 Brown lime
Show gas +377 to +367
Show gas +333 to 322 Est. 12 MMCFGPD
Show gas at T.D. +282 Est. 35 MMCFGPD
Sl. show oil +277
Sl. incr. gas +272
Test #17 at T.D. +247 15 MMCFGPD
Show oil: +247 to +237
Incr. gas +142
Ran 6 5/8" csg. to +123 not cmtd.
Show gas +82
Incr. gas +54
Incr. gas +47 to +37 70 MMCFGPD
Pulled 6 5/8" csg but left 209' somewhere in hole
Note: 6 5/8" csg. (not cmtd.) in hole from +123 to 332
Completion: 70 MMCFGPD Date: 11-7-28
Workover: Dec. 1931
Found 8" csg. collapsed
Set 5 1/2" & cmtd. at 399
Comp: 9 MMCFGPD
Date: 4-7-50 Sl. Wellhead press: 732 psi.
6-14-50 Open flow 1,700 MCFGPD

Comp: Back press test open flow 4220 MCFGPD
SIP 792 psi.
Date: 9-4-48
Date: 4-7-50 SIP: 724 psi.
6-14-50 open flow 1,700 MCFGPD
Stopped prod gas into HP system 7-13-51 &
began flowing about 20 BOPD. Still prod
11 BOPD. GOR 96,210.

Sl. show oil +366 to +358
Show gas +328
Incr. gas +281 to +276 gyd 25,249 MCF

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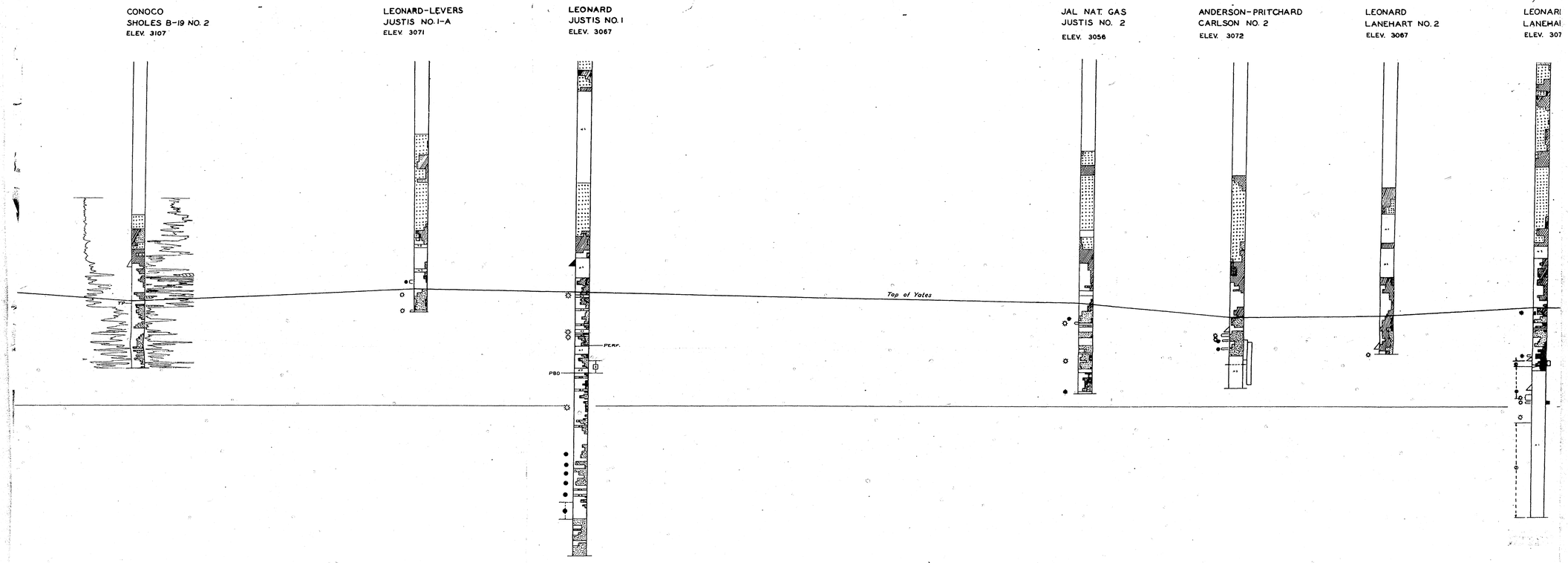


Comp: Back press test open flow 4220 MCFGPD
SIP 792 psi.
Date: 9-4-48
Date: 6-7-38 SIP - 724 psi.
6-18-38 open flow 1700 MCFGPD
Stopped prod gas into W.F. system 7-13-38: W began making about 20 B.O.P.D. Still prod. 11 B.O.P.D. GOR 96,210.

SI show oil 1366 to 1358
Show gas 1328
Incr gas 1281 to 1276 ##k 25,291 MCF

Show gas 1317, 1216 to 1212, 1181 to 1171. Show oil 1136 to 1145, 1068 to 1118, 1196 to 1183, 1216 to 1233, 1255 to 1258.
10-22-35: 1478 to 1328, 11 B.O. & 13 B.W.P.D. P.B. to 1491.
11-17-35: Shot from 1138 to 1197 w/ 20 qts (nitro). No results.
9-16-35: Well blew in; est. 25,000 MCF.
5-5-35: Tested est. 255 B.O.P.D. & 3000 MCFPD, 2" @ 1278. T.P. 380 psi, Comp. 5-5-36. T.D. 1494, P.B. 1491.
7-19-38: Cleaned out to 1212 & bailed 10 BOPD.
8-11-38: Cleaned out to 1187. Perf. at 1177.
L.P. Flowed 52 B.O/4 days & est. 1500 MCF.
Comp. 10-18-38.

Show oil 1251
Show gas 1222 Blew load up h/c
Show gas 1138 to 1131 Est. 10 MMCFGPD
Blew 2nd at 1316 Est. 60 BOPD + 10MMCFGPD
At T.D. 1271 flow est. 60 BOPD + 1050 MCFGPD
Comp: Plug at 1161 T.D. 1271
Flowed 25 BOPD + 8 MMCFGPD
Date: 8-1-37

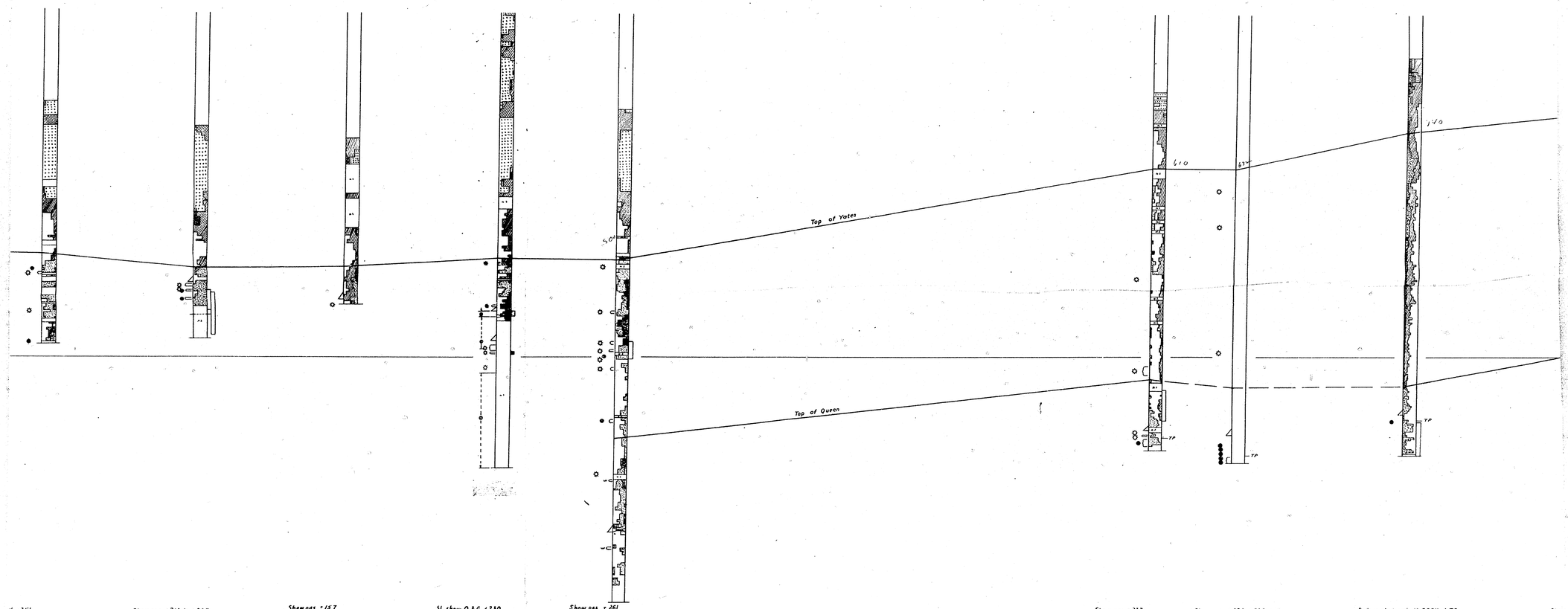
Show gas 1214 to 1207
Incr gas 1201 to 1197
Good show oil 1107 to 1101
At 1191 est 4-5 BOPH
Incr oil 1172 to 1167
Shot 1194 to 1197 w/ 150 qts.
Flowed 60 BOPD
Deepened to 1122
Comp: Set Pkr. 1242 T.D 1122
Flow 69 BOPD & /o 1200
Date: 2-27-37

Workover: Deepen to 1152.
Flow 98 BOPD
Shot 1187 to 1162 w/ 220 qts.
Recompleted: 65 BOPD + 130 MCFGPD
Date: 4-5-38

Show gas 1157
At depth of 1154 flowed 124 BOPH
At depth of 1132 flowed 285 BOPH
+ 1.5 MMCFGPD
Comp: on choke 4 BOPH
Date: 7-19-36

SI. show O & G 1230
Show O & G 1104 to 1100 SI
& 17,800 MCFGPD
Set 7" csg at 1188
Test #1: 1188 to 1172 22 BO/12
& 4,880 MCFGPD
This is initial Comp: 4-28

Recomp: Deepened
Test #2: at T.D. 1211 flowed
Show gas 1211 to 1206
Show gas - 31 to 35 Est. 10
SLM SIH - 3187
Squeze all bottom 7" of hole (
Show gas 1175
Test #3: 1191 to 1367 dr
P.B. to 1173
Perf 5½" csg 1188 to 1174
Csg at 1367 T.D. 1361 P.B. to
Recomp: 27 BOPD thru per
1½ MMCFGPD Date



il +251
as +222 blow bail up hole
as +138 to +131 Est. 10 MMCFGPD
C at +36 Est. 60 BOPD +10 MMCFGPD
+27 flow est. 60 BOPD +9300 MCFGPD
Pkr at +61 T.D. +27
Flowed 55 BOPD +9 MMCFGPD
Date: 8-1-37

Show gas +214 to +207
Incr. gas +207 to +197
Good show oil +197 to +191
At +191 est. 4-5 BOPH
Incr. oil +172 to +167
Shot +194 to +147 w/130 qts.
Flowed 60 BOPD
Deepened to +122
Comp: Set Pkr. +242 T.D. +122
Flow 69 BOPD o/o 1200
Date: 2-27-37

Workover: Deepen to +52
Flow 54 BOPD
Shot +187 to +62 w/220 qts.
Recomp. pleted: 65 BOPD +150 MCFGPD
Date: 4-5-38

Show gas +157
At depth of +154 flowed 124 BOPH
At depth of +152 flowed 285 BOPH
+15 MMCFGPD
Comp: on choke 4 BOPH
Date: 7-14-36

Sl. show O & G +230
Show O & G +104 to 100 Sl. show oil
& 17,800 MCFGPD
Set 7" csg at +88
Test #1: +88 to +72 22 BO/12 hr.
& 4,880 MCFGPD
This is initial Comp: 4-28-36

Recomp.: Deepened
Test #2: at T.D. -21 flowed 1880/25 hrs.
Show gas -10 to -28
Show gas -31 to -35 Est. 10 MMCFGPD
SLM 5114 - 3187
Squeeze off bottom 7' of hole (-31 to -35 above)
Show gas -75
Test #3: -191 to -367 dry
P.B. to +73
Perf 5½" csg: +88 to +74
Csg at +3" T.D. -367 P.B. to perfs.
Recomp.: 27 BOPD thru perfs +88 to +74
1½ MMCFGPD Date: 3-10-37

Show gas +261
Show gas +155 to +127
Show gas +111
Show gas +46 to +36 Est. 1 MMCFGPD
Show gas +22 to +18 Est. 5-10 MMCFGPD
Show oil +1
Incr. gas -2
Show gas -29 to -56
Show oil -180 to -189
Sl. show gas -339
280' wtr. in hole -354 to -359
More wtr. -549 to -554
P.B. to -499
Cut 7" csg off at +421
Shot inside 7" liner +46 to -4 w/180 qts.
Comp.: 7-8 MMCFGPD Date: 12-22-36
(csg: 7" +421 to -507
8⅝" Surf. to +373)

Show gas +257
Show gas -25 to -60
Show gas -216 to -223
Show O&G -227 to -231
Comp: -210 to -270
IPF 226 BO/8 hr
315 MCFGPD
Date: 5-3-38

Show gas +490, +385, +19
Show oil -255, -265, -274, -283
Comp.: IPF 111 BO/10½ hr. G/O 550
Date: 3-21-39

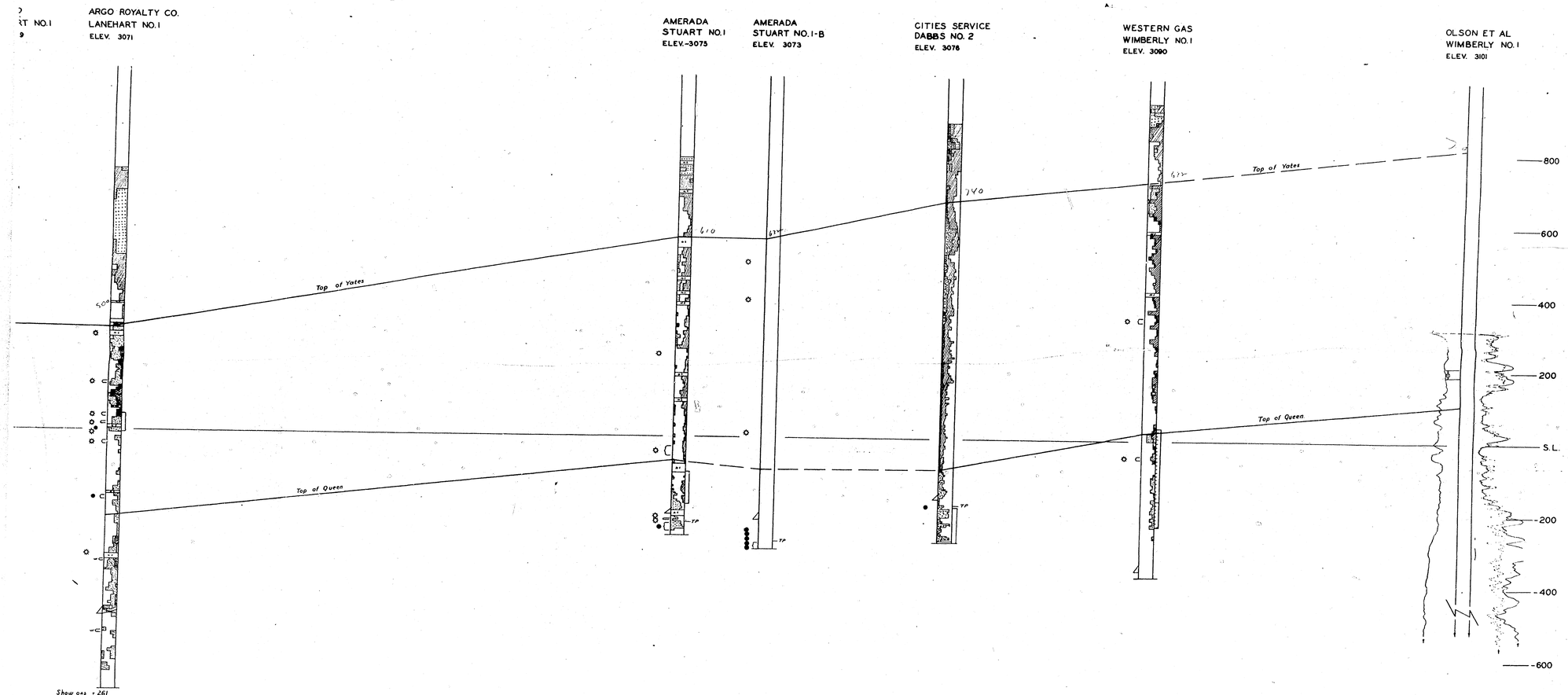
Before shot swb 12 BOPH at T.D.
Shot -194 to -284 w/220 qts.
Comp.: Flowed 320 BO in 12 hrs.
Date: 5-9-39

Show
Show
Perf

Com.

EAST-WEST SECTION T-25

Scale: Vertical - 1" = 100'
Horizontal - 1" = 600'



Show gas +261
Show gas +155 to +127
Show gas +111
Show gas +46 to +36 Est. 1 MMCFGPD
Show gas +22 to +18 Est 5-10 MMCFGPD
Show oil +1
Incr gas +2
Show gas -29 to -36
Show oil -180 to -189
St. show gas -339
280' wtr in hole -354 to -359
More wtr -549 to -554
P.B. to -499
Cut 7" csg off at +421
Shot inside 7" liner +46 to -4 w/180 qts.
Comp: 7-8 MMCFGPD Date: 12-22-36
(csg: 7" +421 to -507
8 3/8" Surf. to +373)

Show gas +257
Show gas -25 to -60
Show gas -216 to -223
Show O&G -227 to -231
Comp: -210 to -270
1 PF 226 80/8 hr
315 MCFGPD
Date: 5-3-38

Show gas +490, +385, +19
Show oil -255, -265, -274, -283
Comp: 1 PF 111 80/19½ hr. G/O 550
Date: 3-21-39

Before shot swb 12 BOPH at T.D.
Shot -194 to -284 w/220 qts.
Comp: Flowed 320 80 in 12 hrs.
Date: 5-9-39

Show gas +346 to +331
Show gas -40 to -50
Perf. -165 to -235 Tested some
salt wtr. & show oil
Comp: Perf +46 to -165
2½ MMCFGPD SIP 1000 psi.
Date: 5-29-43

DST #1: +211 to +186
Rec. 180' mud.
60' SLO&GCM

EXH. NO. 12

G. E. HALL EAVES 'B' #1 (2933)
CONTINENTAL EAVES 'B-31' #1 (2932)
CONTINENTAL EAVES 'B-30' #2 (2948)
CONTINENTAL EAVES 'B-30' #1 (2945)
CONTINENTAL EAVES 'A-19' #1 (2955)
CONTINENTAL EAVES 'A-19' #5 (2956)
CONTINENTAL EAVES 'A-19' #4 (2961)
CONTINENTAL EAVES 'A-19' #6 (2962)
STANOLIND FARNSWORTH #7A (2954)
STANOLIND FARNSWORTH #6A (2955)
STANOLIND FARNSWORTH #4A (2949)
STANOLIND FARNSWORTH #3A (2957)
STANDARD FARNSWORTH #1B (2952)
STANDARD FARNSWORTH #2B (2956)
TEXAS COMPANY SHEPHERD #2A (2976)
STANOLIND GREGORY #22 (2988)
R LOWE COATES 'A' (2994)
1000
900
800
700
600
500
400
300
200
100
0
100
200
300
400
Top of Yates
Top of Seven Rivers
Top of Seven River
TD (-259)
TD (-316)
TD (-265)
TD (-268)
TD (-45)
TD (-264)
TD (-176)
TD (-337)
TD (-32)
TD (-55)
TD (-105)
TD (-157)
TD (-32)
TD (-174)
TD (-333)
TD (-326)
22% Ow
12% Sul. W.
4% Sul. W.
73% Ow
Sul. W.
60% Ow
99% Ow
25% Ow
98% Ow
50% Ow
2% Ow
33% Ow
22% Ow
100% Ow
40% Ow
90% Ow
Perf & Squeezed
After PB
DST -55 to -153, small show of gas, no oil
IPP 75 BO, 21 BWPD
Compl 3-19-43.
DST #1 +13 to -62, 150' gas cut mud, no oil
DST #2 -62 to -132, no oil, gas or wtr
DST #3 -132 to -199, 200' gas cut mud, 104 MCF gas/day, no oil
DST #4 -199 to -265 630 ft oil, 180 ft gas cut mud, 90 ft of sul wtr + 60 MCF gas/day. Perf -252 to -263, Tr w/500 gal. IPP 31 BO, 5 BW in 10 hr Compl. 8-31-47
DST -102 to -148, no oil gas or wtr
Test -151 to -201, no oil or gas
Test -151 to -268 flow 75 BO in 21 hr
Tr w/1000 gal.
IPF 30 BOPH w/225 MCF/day
Compl. 12-17-36
Gas show +136 to +120, Inc gas +34 to +25. Gas show +11 to -1, Inc gas -72 to -77
Gas show +225 +60 to +55
8000 MCF, inc gas +17, 65,000 MCF, +12 90,000 MCF
IPF 42,000 MCF gas/day Shut-in press 1300#
Compl 7-6-28
Test 4-19-39 Flow 4 5 BOPH w/est 2000 MCF
Perf csg -242 to -248 -251 to -257
Tr w/500 gal
IPF 165 BO in 5 hr w/917 MCF gas Compl 2-23-49
BHP 3-17-49 - 1300#
PI 2.54
IPF 64 BO, 13 BW in 24 hr w/316 MCF gas/day
Compl 8-10-47
DST #1 -101 to -188, 1890 MCF gas/day + 700' of sul wtr
DST #2 -198 to -288 Flowed 14 BOPH, 106 MCF gas/day
Perf 7 intervals below 3200 ft
Allcontainedwtr. Perf -226 to -238 Tr w/500 gal
IPF 115 BO in 5 hr, 166 MCF gas/day Compl 3-10-50
BHP 4-10-50 - 1262
PI - .681
Oil & Gas show +58 to +49
DST +128 to +49, 45 min
Small gas show + 70' drlg fluid
Oil Show +35 to +27
DST +128 to -11, 1 hr 12 MCF + 400' gas cut mud
IPF 29,870 MCF gas
Compl 6-17-41
Gas show +94 to +84
Oil show +101 to +106
DST #1 -95 to 105, 400 BFPH, 98% H2O
DST #2 -56 to -95 5000 MCF gas
DST #3 -86 to -95, 20 BFPH, 60% H2O
DST #4 -77 to -95, 50 BFPH, 60% H2O
DST #5 -83 to -91 10 BFPH, 50% H2O
DST #6 -78 to -85, 50 BFPH 25% H2O and 2000 MCF gas
Compl 3-1-36
Placed on gas lift 1-38. PB to -10. Perf -47 to -55 / 4 shots/ft
Tr w/500 gal test 1500 BW, +4 BOPD
Perf sqzd PB -26, Perf -11 to -21 4 shots/ft Tr w/500 gal tested 45 BOPD + 17% wtr Gor 6366
Tr w/1000 gal 53 BO + 80 BW
GOR 1032
Gas shows +112 to +85 +72 to +70 +64 to +58 +43 to +12
Tested -8 to -28, 32,000 MCF gas
Tested +112 to +12, 14000 MCF gas
Tested +54 to +12, 12,300 MCF gas
Compl 5-9-34
Gas show +94
Inc gas -24
Test -24 to -102, 149 BF in 20 hr w/20% water, 1500 MCF gas/day Test +276 to -174
Flowed 80 BWPH. PB to -101
IPF 23 BO in 19 hr + 93% water w/3500 MCF gas/day
Compl 1-7-37

232

STANOLIND
GREGORY #22
(2988)

R LOWE
COATES 'A' #2
(2994)

R LOWE
SHOLES 'B' #1
(3003)

R LOWE
SHOLES 'B' #2
(3013)

CONTINENTAL
SHOLES 'B25' #3
(3029)

CONTINENTAL
SHOLES 'B25' #1
(3059)

CONTINENTAL
SHOLES 'B25' #4
(3080)

CONTINENTAL
SHOLES 'A24' #1
(3084)

CONTINENTAL
SHOLES 'A24' #3
(3082)

CONTINENTAL
SHOLES 'A24' #4
(3089)

CONTINENTAL
SHOLES 'A24' #2
(3116)

CONTINENTAL
SHOLES 'A13' #3
(3157)

CONTINENTAL
SHOLES 'A13' #2
(3149)

REPOLLO
STEPHENS #1A
(3149)

REPOLLO
STEPHENS #2A
(3152)

REPOLLO
GLOYD #1
(3159)

REPOLLO
GLOYD #2
(3179)

BYRD-FROST
WELLS 'A12' #2
(3199)

CONTINENTAL
WELLS 'A12' #1
(3219)

BYRD-FROST
WELLS 'A1' #1
(3243)

GULF
ARNOTT 'A' STATE #2
(3262)

TEXAS GO
OGG #6
(3275)

1000
900
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400

Top of Yates

Top of Seven River

TD(-333)

TD(-326)

Gas show -129
Water show -94
Shot w/150 gls +144 to 194
IPF 1910 MCF gas/day
Compl 12-24-96

TD(-102)

Gas show -77
Water -82 to -87
Perf -77 to -75 tick
filled 2700' water
Squeezed, Reperf,
G to -77 Treat,
3000 gal.
IPF 1200 BOPD
Compl 11-16-97

IPF 626 BOPD
Compl 6-28-97

TD(-63)

Gas show -191 to -189
Blewout -124 est 30
BOPH w/2500 MCF/day
Perf -89 to -83, Test 12
BWPH Squeezed Perf
Perf -81 to -36, test
18 BWPH, Squeezed
Perf -71 to -69
IPF 28 BO, 92 BW in 3
hrs w/366 MCF gas
/day Compl. 10-14-97
BHP 1-2548 - 1192#
PI - 1.79
1-50, Tested 1500 BW
PD by GL, no oil,
Squeezed, Reperf -108
to -25 Test 208 MPH,
Squeezed perf, Reperf -124
to -117, Recomp IP 139
BO in 4 hrs. w/ 267 MCF
gas/day. Comp 1-30-98
BHP 96-50 -1192#
PI - 9.56

TD(-109)

TD(-126)

Test -386 to -212
no oil, gas or water
Test -386 to -186
850 MCF gas/day
Test -386 to -159
850 MCF gas/day
IPF 95000 MCF
gas per day.
Shut in pressure
1100 psi
Compl. 11-5-90
Test -12-29-91
Flowed 10 BOPD,
200 MCF gas.
Started making oil
See Mickey T. effect.

TD(-150)

Perf +46 to -39, Test 4
BW in 3hr Squeezed
perf. Reperf +62 to -35
Squeezed perf. Perf
-82 to +72 Frac 180 gal
Test, 158 MPH, Squeezed perf
Perf +10 & to +02 + -08
to -98. Tr. w/ 500 gal.
IPF 238 BO in 6hr w/
3170 MCF gas/day
Compl 9-28-98

TD(-312)

Gas show +156 to -546
Inc. gas +537 to 532,
+499 to +484
Blewout at -484
Lost returns at -236
Squeezed from -578 to
+224 Gas show +217
Inc gas +189, Lost returns
+ 137 Squeezed +823 to
+63, Gas show -50 Inc.
gas -78 Lost return +3
Test below -98 all wtr
Perf +163 & +114
IPF 2318 MCF gas/day
Compl 12-11-76
May 1982 waterflowed
1400's w/2300 MCF/day

TD(-108)

Perf 6 intervals between
+96 to +70, all fr. oil and
were squeezed off
Perf -131 to -111, -111 to -91
+ -91 to -105
IPF 212 BO in 9 hr w/
895 MCF gas/day
Compl. 9-22-97
3-24-98 BHP - 1157
PI - +0.3
Gas show + 77
Lost return + 231

TD(-6)

Perf 1113 to -107
IPF 190 BO in 18hr
w/69 MCF gas.
Compl. 2-2-80
-6-50 BHP 1172
PI .696

TD(-58)

Lost returns +8 to +1
IPF 210 BOPD w/4000
MCF gas
Compl. 4-4-35
During April 85 well
was plugged back to -101
Csg perf +118 to +104
IPF 29000 MCF gas/day

TD(-176)

D3T +927 to 287, 1.5hr
gas in 4 min, 158 MCF/day
Rec'd 600' sul wtr
3rd rec +100, perf +135
to +187, +182 to +175, +169
to +163, recvd show gas
after 1+ w/1500 gal
PB 1+ to +201, 1+ rec' +293
to +207. 1+ w/500 gal
668 MCF gas.
IP 1123 MCF gas/day
Shut in press 750 psi
Compl 12-8-50
6/8 S.S. OFD 35 MCF
3/16 0.75 CP

TD(+61)

D3T -101 to +151, no oil, gas or wtr.
Test -131 to +176, Flow 800 BFPD,
65% ASKW PB to +165
Test -131 to +165 Flow 20 BF PH, 24 %
BSKW PB to +135
IPF 228 BOPD, 24 % BSKW
Compl 3-14-35
1.36 -100% wtr prod - PB to -59
Perf -90 to -99 Test 668WPD
PB to 79 Perf -81 to -71 Test 78WPH
w/1500 MCF gas/day. PB to -97
Perf +39 to -9 Test 4000 MCF gas
per day. 7-90. Stopped prod wtr.
PB to +94 Perf +60 to +45 and
+32 to +18, show salt and wtr
PB to +14. Perf +229 to +169 small
amt oil Shut w/10 gals + 184 to +174
Rec'd compl. IP flow by GL 11 BOPD
Compl 10-5-40.

TD(-178)

TD(-153)

D3T #1 - 61 to -81, 5500 MCF gas
D3T #2 - 81 to -51, 3500 MCF gas
D3T #3 - 91 to -101, 3500 MCF gas
D3T #4 - 101 to -111, 500 MCF gas
IPF 35 BOPD w/5500 MCF gas
Compl 5-25-35.

TD(-140)

TD(-147)

TD(-189)

1 D3T - 97 to -112, 250' sul wtr
2 D3T - 112 to -169 - Rec. nothing
3 D3T -169 to -218 Flowed 30 BFPH
3% oil w/est 1000 MCF gas/day
Cemented csg from -182 to +121
IPF 100/1000, 1200 BWPD
Compl 7-15-36
Plugged + Abandoned 3-7-38

TD(-219)

TD(-205)

TD(-280)

Perf
PBD
Perf
Drg Out Depth

233

TEXAS CO. OGG #1 (3276)
TEXAS CO. OGG #2 (3287)
TIDEWATER WOOLWORTH #1
GENERAL CRUDE WOOLWORTH #1 (3309)
KIRBY & ATLANTIC WOOLWORTH #1 (3329)
STANOLIND A.H. MYERS 'B' #1
HUMBLE
GULF S.R. COOPER #2 (3350)
GULF S.R. COOPER #1
HUMBLE S.R. COOPER #1 (3352)
HUMBLE S.R. COOPER #3
CONTINENTAL VAUGHAN 'A14' #6 (3350)
HUMBLE J.M. COOPER #1 (3343)
CONTINENTAL VAUGHAN 'A14' #5 (3375)
GULF G.E. COOPER #1 (3368)
HUMBLE G.E. MOSLEY #3
HUMBLE COATES #4 (3384)
SKELLY COATES #4 (3382)
SKELLY COATES #6 (3409)
KAN-MEX VAUGHAN 'B3' #1 (3411)
KAN-MEX VAUGHAN 'B3'
REPUBLIC DAVIS 2-B (3392)
REPUBLIC DAVIS 3-B (3392)
CONTINENTAL STEVENS 'A-34' #1 (3417)
Top of Yates
Top of Seven Rivers
1000
900
800
700
600
500
400
300
200
100
0
100
200
300
400
TD (-247)
TD (-254)
TD (-196)
TD (-152)
TD (-168)
TD (-262)
TD (-266)
TD (-231)
92% Ow
Gas show +483 to +474
-80
-95 to -104
Test -77 to -182. Swbd 40 BO, 450 BWPD
Pkr at -255
IPF 1600 MCF gas per day Compl 1-25-36
Perf
PBD
TP
TD (-152)
Gas show: +144 to +138
DST #1 -113 to -140, 440 MCF/day no oil
DST #2 -131 to -152, 200 MCF/day 60 BOPH
IPF 90 BOPH w/1590 MCF gas per day
Compl 9-15-35
Shut-in 5-29-44. 1/2 BOPD + 1293 BWPD PB to -110. Test no oil gas or water. Perf -55 to -85 test 70 BWPH. PB to -30. Perf 0 to +30. Test no oil, gas, or wtr. Perf +50 to +44, +63 to +53, +106 to +104; Hole full of water
PB to +120. Perf +150 to +130
Recompl. 4280 MCF gas/day
Compl 10-18-44
TD (-184)
PB into Csg
TD (-157)
Gas show +28 to +3
Lost returns -7
DST -96 to -121, 3220 MCF gas/day
IPF 69 BOPD w/1000 MCF gas
Compl 8-11-35
Prod declined to 100% wtr
PB into csg. Tested interval below +425, no oil or gas
Plugged & Abandoned 11-26-44
TD (-162)
Gas show: +427 to +417
+387 to +377
IPF 88 BOPH w/2500 MCF gas
Compl 11-26
TD (-173)
TD (-166)
Gas show +451 to +441
DST #1 -64 to -109
12,000 MCF gas/day
DST #2 -124 to -149, 240' drlg mud, oil show
IPF 100 BOPH w/2000 MCF gas/day
Compl 1-21-37
Prod decl to 100% wtr
PB to -107. Perf -89 to -95 tested water w/show of oil
Perf w/1 hole at -71 -73 -79 tested 10,000 MCF spray of wtr. Perf w/1 hole at -24, -29, -34. PB to -61 Recompl. for IP of 8000 MCF gas/day
Gas show +465
Blew out +455
Oil show +375
Gas show +292 to +281
+225
Oil & gas show +187 to +150
Perf +185 to +55
IPF 10,000 MCF gas/day
Compl 4-25-4?
TD -250
TD (-231)
Sul W
Lost circulation -138 to -142
IP 20,000 MCF gas thru 5 in csg
95% Ow
98% Ow
TD (-274)

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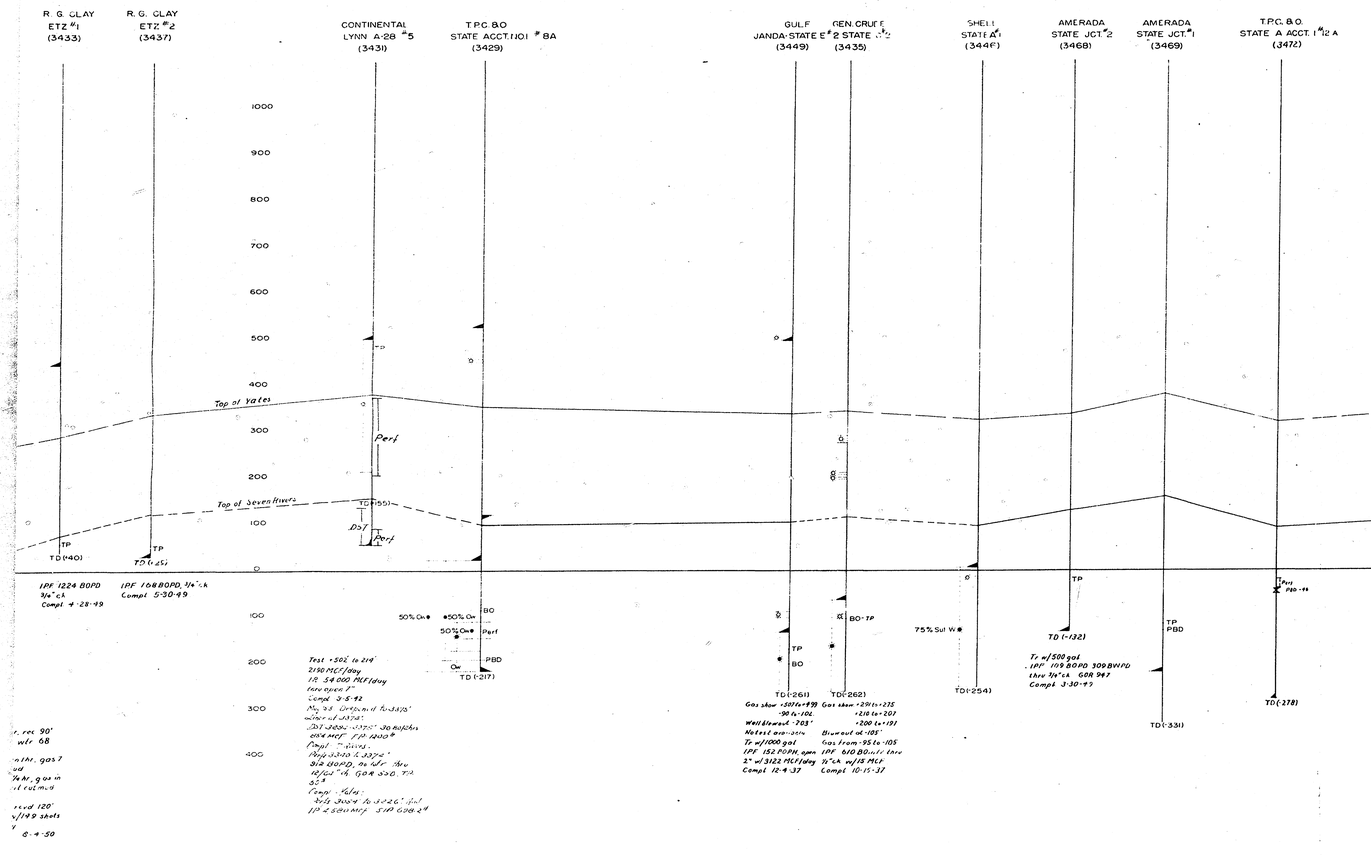
R. G. CLAY ETZ #1 (3433)
R. G. CLAY ETZ #2 (3437)
CONTINENTAL LYNN A-28 #5 (3431)
T.P.C. & O. STATE ACCT.1101 #8A (3429)
GULF JANDA-STATE E #2 (3449)
GEN. CRUDE STATE #2 (3435)
SHELL STATE A #1 (3441)
AMERADA STATE JCT. #2 (3468)
AMERADA STATE JCT. #1 (3469)
T.P.C. & O. STATE A ACCT. 1 #12 A (3472)
1000
900
800
700
600
500
400
300
200
100
0
Top of Yates
Top of Seven Rivers
Perf
DST
TP
TD (-40)
TD (-45)
TD (-155)
PBD
BO
TD (-217)
TD (-261)
TD (-262)
TD (-254)
TD (-332)
TD (-331)
TD (-278)
IPF 1224 BOPD 34/64" ck Compl 4-28-49
IPF 1068 BOPD, 3/4" ck Compl 5-30-49
50% Oil
75% Sul W
Test +502' to 219' 2190 MCF/day TP 54 000 MCF/day
Tr w/500 gal
IPF 1178 BOPD 309 BWPD thru 3/4" ck GOR 947 Compl 3-30-49
Gas show +507 ft +498 -90 ft -102
Well blowed -203'
Noted on -261'
Tr w/1000 gal
IPF 152 7 BOPH, open 2" w/3122 MCF/day Compl 12-9-37
Gas show +291 to +235 +218 to +201 +200 to +191
Blowout at -185'
Gas from -95 to -105
IPF 600 BO, 1/2" ck thru 12" ck w/12 MCF Compl 10-15-37
T.P.C. & O. STATE A ACCT. 1 #15 (3500)
CONTINENTAL MEYER B-33 #1 (3475)
CONTINENTAL STATE A-32 #1 (3500)
CONTIN MEYER (352
Perf
PBD
Sul W
94% Sul W
TD (-73)
TD (-7
IPF 1224 BOPD 34/64" ck Compl 4-28-49
IPF 1068 BOPD, 3/4" ck Compl 5-30-49
Test +502' to 219' 2190 MCF/day TP 54 000 MCF/day
Tr w/500 gal
IPF 1178 BOPD 309 BWPD thru 3/4" ck GOR 947 Compl 3-30-49
Gas show +507 ft +498 -90 ft -102
Well blowed -203'
Noted on -261'
Tr w/1000 gal
IPF 152 7 BOPH, open 2" w/3122 MCF/day Compl 12-9-37
Gas show +291 to +235 +218 to +201 +200 to +191
Blowout at -185'
Gas from -95 to -105
IPF 600 BO, 1/2" ck thru 12" ck w/12 MCF Compl 10-15-37
Gas 296'-416'
Perf w/4 shots, 3755-84
Swbd 18 bbls oil/hr for 12 hr, squeezed
Perf 4JSPF 3500-20, 30 shots, 3925-90 - 6 w/2000 gal Flowed 1 BF in 12 hr (100% oil) Squeeze off w/ 111 sx 3300, Perf 9 shots, 3467'-71 w/4 shots, 3488-95
IPF nat 1118 MCF Tr w/1000 gal
IPF 82 BOPD + 350% Sul wtr, 30# GOR 4000 Compl 11-1-46
1 DST +195 to +135, 45 min, test 1500 MCF, no oil
2 DST +135 to +110, 1 hr, test 20 BO/hr/2" ck, no
3 DST +109 to +100, 45", test 2900 MCF, no oil
4 DST +100 to +75, 1 hr, test 98 MCF, 180 Sul wtr
5 DST +55 to -50, 1 hr, test 180 MCF, 1/8 gas cut mud
6 DST +30 to +25, 1 hr, test 1 stand gas MCF, no
7 DST +25 to -30, 1 hr, test 980 Sul wtr, 30 oil
no tr at -28', Perf +128 to +101 w/4 JSPF shots
Tested 900 MCF/gal/hr, heavy oil cut
Set plug at +185, Perf +256' to +226' w/1240 shots, TP 1700 MCF/day, no oil or wtr Compl 8-28-47
3-30-53 OPF: 2600 MCF; 3-10: 1145 MCF
DST -5 to -62', 1 hr, 1800 PH DST +195 to +135', 45 min, test 1500 MCF, no oil
445 MCF/day
DST -55 to -72, 30 min, gas in 5 min, 0.1 in 16 min
Flowed 27 BOPH, no water
IPF 182 BO + 6 Bbl, 340 MCF, thru 3/4 in ck GOR 967
Compl 5-1-47
DST +67 to +
2310 MCF,
DST +63 to
1930 MCF
DST -104 to
3600 Sul
PB to -
+181 to +
45 sul wtr
w/ 1000
gas, no oil
IP (2400
open -30
Compl 7-

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REPUBLIC (3392) DAVIS 2-B

REPUBLIC (3392) DAVIS 3-B

CONTINENTAL (3417) STEVENS 'A-34 #1

GREENBRIER (3429) STEVENS #1

R. G. CLAY (3433) ETZ #1

R. G. CLAY (3437) ETZ #2

CONTINENTAL (3431) LYNN A-28 #5

T.P.C. BO (3429) STATE ACCT.1(O1 #8A

GULF (3449) JANDA-STATE E #2

GEN CRUDE (3435) STATE #2

SHELL (3446F) STATE A'1

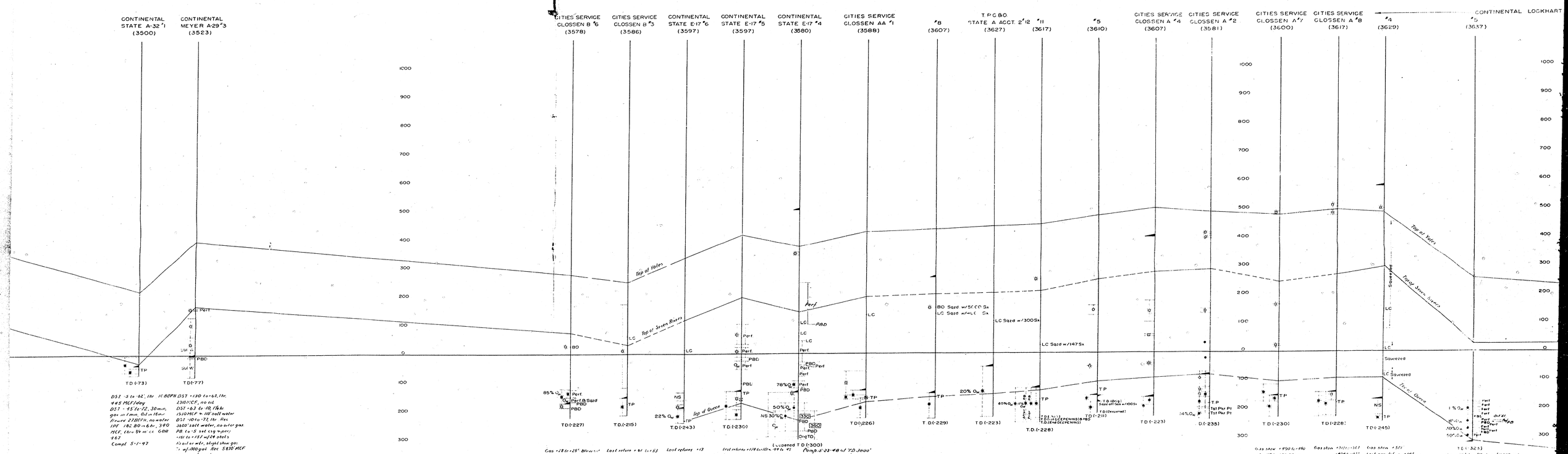
AMERADA (3468) STATE JCT #2

AMERADA (3469) STATE JCT #1

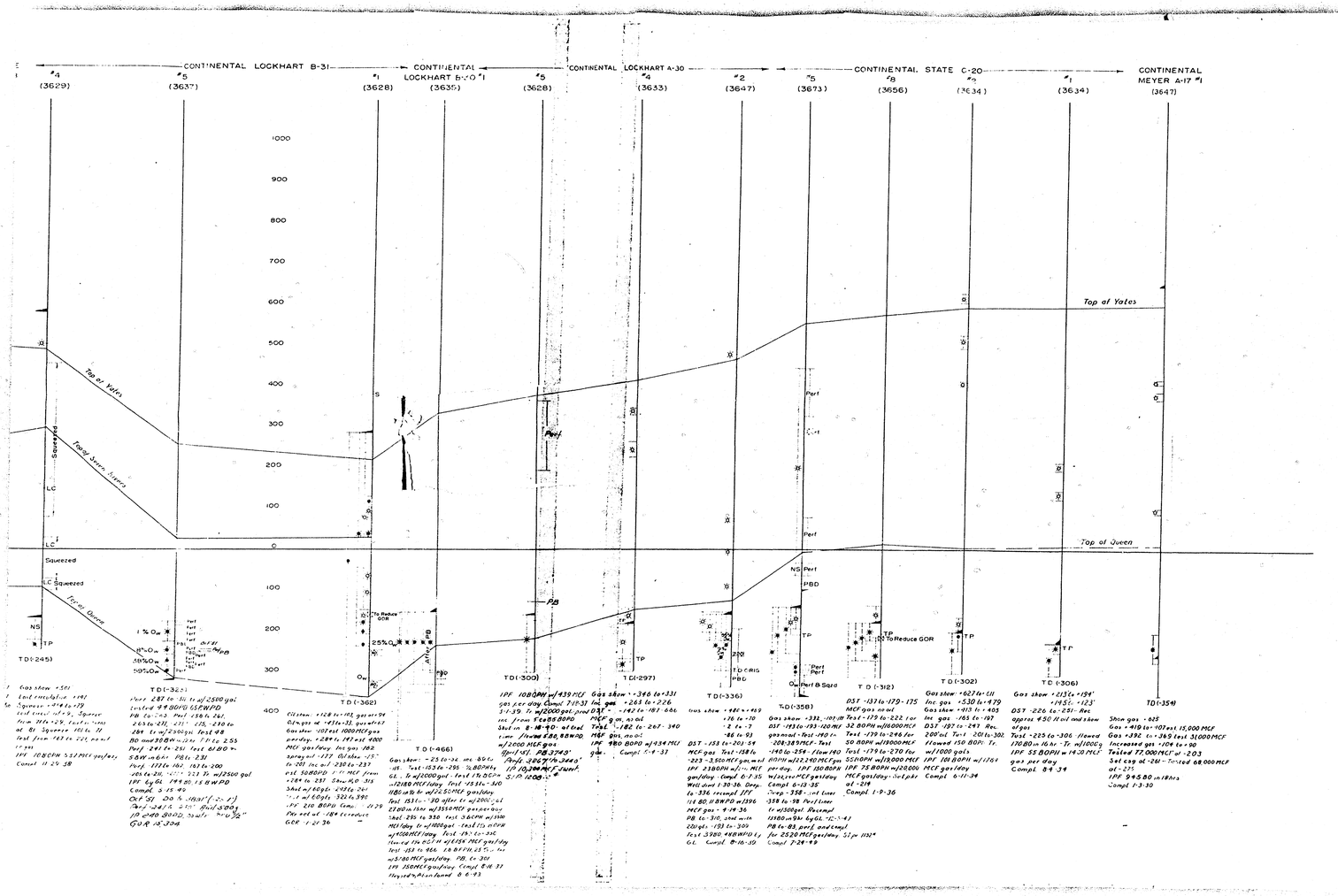
TPC. BO (3472) STATE A ACCT 1 #2A

T.P.C. B O (3500) STATE A ACCT 1 #1S

CONTINENTAL (3421) MEYER E


CONTINENTAL STATE A-32 #1 (3500)
CONTINENTAL MEYER A-29 #3 (3523)
CITIES SERVICE CLOSSEN B #6 (3578)
CITIES SERVICE CLOSSEN B #3 (3586)
CONTINENTAL STATE E-17 #6 (3597)
CONTINENTAL STATE E-17 #5 (3597)
CONTINENTAL STATE E-17 #4 (3580)
CITIES SERVICE CLOSSEN AA #1 (3588)
#8 (3607)
T.P.C.&O. STATE A ACCT. 2 #12 (3627)
#11 (3617)
#5 (3610)
CITIES SERVICE CLOSSEN A #4 (3607)
CITIES SERVICE CLOSSEN A #2 (3581)
CITIES SERVICE CLOSSEN A #7 (3600)
CITIES SERVICE CLOSSEN A #8 (3617)
#4 (3629)
CONTINENTAL LOCKHART #5 (3637)
Top of Yates
Top of Seven Rivers
Top of Queen
Top of Yates
Top of Seven Rivers
Top of Queen
TD (-73)
TD (-77)
TD (-227)
TD (-215)
TD (-243)
TD (-230)
TD (-226)
TD (-229)
TD (-223)
TD (-228)
TD (-211)
TD (-223)
TD (-235)
TD (-230)
TD (-228)
TD (-245)
TD (-325)
Equipped TD (-300)

237



1 Gas show +501
1 Lost circulation +197
to Squeeze +194 to 179
test cmtd. w/50 sx. Squeeze
from 316 to 29. Tested cmts
at 81 Squeeze 180 to 70
test from 183 to 221, would
not pass
IPF 108 BOPH 532 MCF gas/day
Compl. 11-29-38

Perf 287 to 316 w/2500 gal.
Tested 49 BOPH 65 BWPD
PB to 293 Perf 238 ft. 240,
265 to 231, 231 to 215, 210 to
184 to w/2500 gal. Tested 98
BO and 358 MCF gas + 70 to 253
Perf. 241 to 251 Tested 61 BO &
54 MCF in 6 hr. PB to 231
Perf. 172 to 180, 193 to 200
165 to 211, 211 to 221 To w/2500 gal
IPF 69 BOPH 149.80 MCF & 158 BWPD
Compl. 3-15-40
Oil Sh. 0 to 1863' (2nd pay)
Perf 2416 2451 Prod. 3000
IP 2000 BOPD, Gravity 39.2°
GOR 18,304

Oil Show at +81 to +33, questionable
Gas show 100 Est 1000 MCF/gas
per day, +289 ft, 193 est 4000
MCF gas/day, Inc gas 182
sprung w/ 177 Oil show +57
to 261 Inc w/ 238 to 237
est 5000 BOPD + ?? MCF from
+289 to 237 Show H2O 313
Shot w/ 60 qts. 2426 to 261
+41 w/ 60 qts. 3214 to 396
-97 210 BOPH Comp. 11-29
Perf est at -189 to reduce
GOR 1-21-36

Gas show +346 to +331
gas per day Comp 7-17-31 Inc gas
Inc from 4686 BOPD
Shut in 8-18-90 after
time flowed 680 BBWPD
w/ 2000 MCF gas
Shut in 48 hrs. PB 3949'
Perfs 3867 to 3949'
IP 10,200 MCF Jun?
Comp 8-4-31

Gas show +263 to +226
-142 to -187 686
TRACE -182 to -267 340
MCF gas, no oil
IPF 980 BOPD w/434 MCI
Compl 7-4-37

Gas show +486 to +469
-76 to -70
-2 to -7
-86 to -93
DST -153 to -203 59
MCF gas Test -158 to
-223 -3,500 MCF gas, no oil
IPF 1380 BOPH w/o mcf
gas/day Compl 6-7-35
Well went 1-30-36. Deep
to 336 recompl IPF
158 BO 11 BWPD w/1396
MCF gas - 4-19-36
PB to 310, shot with
20 qts. 139 to 309
Test 3980 +18 BWPD 1 %
GL Compl. 8-16-39

Gas show -332, -101 IP
DST -193 to -193 -120 MF
gas no oil - Test -140 to
-208 3,975 MCF - Test
-140 to -254 - Flow 140
80 PH w/322,240 MCF gas
per day. IPF 150 BOPH
w/1,680 MCF gas/day
Compl. 6-13-35
Orig -358 - set liner
358 to 98 Perf Liner
to w/500 gal. Recmpl.
IP 180 on 9hr 64 GL 12-1-41
PB to 83, perf and recmpl
for 2520 MCF gas/day, SI pr 1132#

DST -137 to -179 - 175
MCF gas no oil
Test -179 to -222 for
32 BOPH w/16000 MCF
Test -179 to -246 for
30 BOPH w/19000 MCF
Test -179 to -270 for
55 BOPH w/ 21,000 MCF gas/day
IPF 75 BOPH w/20,000 MCF gas/day
Compl 6-11-34

Gas show +627 to -611
Inc gas +530 to +479
Gas show +413 to +405
Inc gas -165 to -197
DST -197 to -241 Rec.
200' oil Test -201 to -302
Flowed 150 BOPH Tr.
w/1000 gals
IPF 101 BOPH w/1164
MCF gas/day
Compl 6-11-34

Gas show +1534 to +194'
-1935 -123'
DST -226 to -251 - Rec.
approx 450 ft oil and show
of gas
Test -225 to -306 - Flowed
150 BO in 16 hr - Tr. w/1000 g
IPF 55 BOPH w 14.30 MCF
gas per day
Compl. 8-4-34

Show gas +405
Gas + 410 to -107 est 15,000 MCF
Gas +392 to +369 est 31,000 MCF
Increased gas +104 to +90
Tested 72,000 MCF w/ -203
Set csg at -261 - Tested 68,000 MCF
at -221
IPF 94.5 BO in 18 hrs
Compl 1-3-30

NORTH-SOUTH SECTION W-1

Scale Vertical 1"-100'
Horizontal 1"-600'

LEGEND

Top of Yates	Y
Base of Salt	S
Top 7 Rivers	7R
No Show	NS
Gas Show	✲
Oil Show	●
Oil and Gas Show	✱
Casing	◢
Sulphur Water	Sul. W.
Salt Water	O-W
Tubing Packer	⊠
Total Depth	TD
Top of Pay	TP
Plug Back Depth	PBD
Tested Interval	◆
w/Show of Oil	◆
Shot Interval w/240 qts	◆◆◆
Perforated Interval	Perf
Liner	⌐
Lost Circulation	LC
Blow Out	BO

SCALES

Horizontal 1" = 600'

Vertical 1" = 100'

EXH. NO. 13

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REPOLLO STATE 196 NO.2 ELEV. 3546	ATLANTIC STATE "O" NO. 1 ELEV. 3545	ATLANTIC STATE "O" NO.2 ELEV. 3539	CITIES SERVICE STATE "F" NO. 3 ELEV. 3538	CITIES SERVICE STATE "F" NO.2 ELEV. 3536	AMERADA STATE "W" NO. 2 ELEV. 3538	EMPEROR HUDSON NO. 1 ELEV. 3534	TEXAS LIEU LANDS NO.13 ELEV. 3541	TEXAS LIEU LANDS NO.21 ELEV. 3536	TEXAS LIEU LANDS NO.19 ELEV. 3540	TEXAS LIEU LANDS NO.18 ELEV. 3545	PHILLIPS HOBBS NO. 4 ELEV. 3547	PHILLIPS HOBBS NO. 1 ELEV. 3548	CONOCO BRITT "B-18" NO.5 ELEV. 3552	SUNRAY COOPER NO.6 ELEV. 3555	SUNRAY COOPER NO.7 ELEV. 3559	SUNRAY COOPER NO.2 ELEV. 3562	SUNRAY COOPER NO.3 ELEV. 3556	CONOC BRITT" ELEV. 3
1400																		
1200																		
1000																		
800																		
600																		
400																		
SL																		
-200																		
-400																		

Top of Yates

Top of Queen

Before acid swabbing
Treated w/6000 gals
IPF 78 BO in 12hrs
Comp 3-10-36

① DST No. 1 -139 to-240
90 MCF gas
Before acid fled SL 18:
Acidized w/3000 gals
IPF 15 BOPH
Est 750 MCF gas
Comp 5-15-37

Drilled as gas well
Perf. +595 to +555
tested no gas or oil
Perf. +750 to +625
tested no gas or oil
Perf. +215 to +190
IPF 7,500 MCF gas
Shut in press. 1160 p
Comp 7-9-48

① DST No. 1 -191 to-241
300 cu. ft/55 mud in
15 min.
Est 150 MCF gas
Before acid tested
5 BO by gas lift
Treated w/total of
4000 gals
IPF 28 BOPH
500 MCF-gas
Comp 6-13-37
Recomp. as gas well
9-11-47
Perf. +179 to +144
IPF 13,200 MCF gas

Show of gas -234 to
-247
Before acid fled 5 BOPH
Treated w/2000 gals
IPF 40 BOPH
Est 500 MCF gas/day
Comp 1-13-37

Treated w/2000 gals
IPF 65 BOPH
700 MCF gas/day
Comp 12-9-54

Show of gas at +73 to +66
Test -172 to -312
Treated 5000 gals
Fled 51 BF in 2 hrs
15% BS&W
Deepened to -350
Test -172 to -350
Fled 94 BF in 11 hrs
1060 MCF gas
Set pkr. -277
Treated w/total of 12000
gals below pkr Pulled
pkr
IPF 103 BF PD, 56 % BS&W
8000 MCF gas
Comp 3-6-37

Treated w/total of
15,000 gals.
IPF 188 BO 2hrs 25min.
1379 MCF gas/day
Comp 5-9-37

Treated w/total of
5000 gals
IPF 18 BOPH, GOR 1650
Comp 8-21-37

Treated w/total of
6000 gals
IPF 90 BO 15 hrs
GOR 1915
Comp 4-20-40

Show of gas at -216
Show of oil & gas at
-230 to -315
Test -135 to -325
Babl & BOPH
Perf formation
from -176 to -322
Acidized w/total
11,000 gals
IPF 89 BOPD
GOR 1900
Comp 8-26-39

Test from -144 to -320
9 BO in 7 hrs
Treated w/total of 3000 gal
Fled 60 BF 9 hrs
Est 3500 MCF gas
Deepened to -325
Treated w/1000 gals
Perforated formation
-233 to -305
Pkr set at -209
Swbd and Fled 21 BF
in 3 hrs
Pulled pkr treated w/3000 gals
Fled 17 BOPH
3000 MCF gas/day
IPF 260 BO 19 hrs w/GOR 1630
Comp 6-18-39

Fled 12 BOPH
Acidized w/total of
3000 gals
IPF 208 BO 6 hours
578 MCF gas/day
Comp 7-5-39

Show of gas +638 to+616
Test -230 to -312 after
w/3000 gals.
Fled by heads 74 BOPD
Deepened to -322
Treated w/3000 gals
IPF 112 BO 3hrs
850 MCF gas/day
Comp 12-25-36

Show of gas +659 to
+618
Test from -192 to
-325
Fled 181 BOPH
Est 12000 MCF gas/day
Set pkr at -282
IPF 76 BOPH
5020 MCF gas/day
Comp 6-20-37

Well SI 8-13-49 100% water

Show of gas +858 to +815
Show of gas +528 to +584
Blew out at +520
Show of gas +477 to +473
Show of gas +315 to +305
Lost mud returns at +305
IPF 110 BO in 30min
5000 MCF gas/day
Comp 1-31-37

Show of gas +1039 to +1019,
+859 to +844, +814 to
+804, +733 to +678,
+649 to +644, +587 to +569
+436 to +387
IPF 1076 BOPH thru 6/64
260 BOPH thru 1"choke wi
25 ftpg
Comp 3-17-37

Recompleted 7-10-49
Cemented liner at +206
Perforated -274 to -244
After acid tested 151 BOPD
and 17 BWPD
Before work tested 3 BOPD
+ 3 BWPD

Show of gas +972 to +925,
+632 to +616, +484 to +416,
+188 to +98
Lost Returns at -214
IPF 1216 BO in 3 hrs
14,500 MCF gas/day
Comp 12-27-36

Recompleted 5-[illegible]
Set liner at 72
Perf. +218 to +238
Tested 13 BFPH, 95% w
Before work tested
900 BWPD, 10 BOPD

Show of gas +541 to+529,
+506 to +501, at -221
Test from -221 to -329
Flowed 167 BOPH
Treated w/5000 gals
IPF 1087 BOPH
Comp 2-13-36

Test -24
45 BOP
2150 MC
Comp 2

Well sh
cleaning

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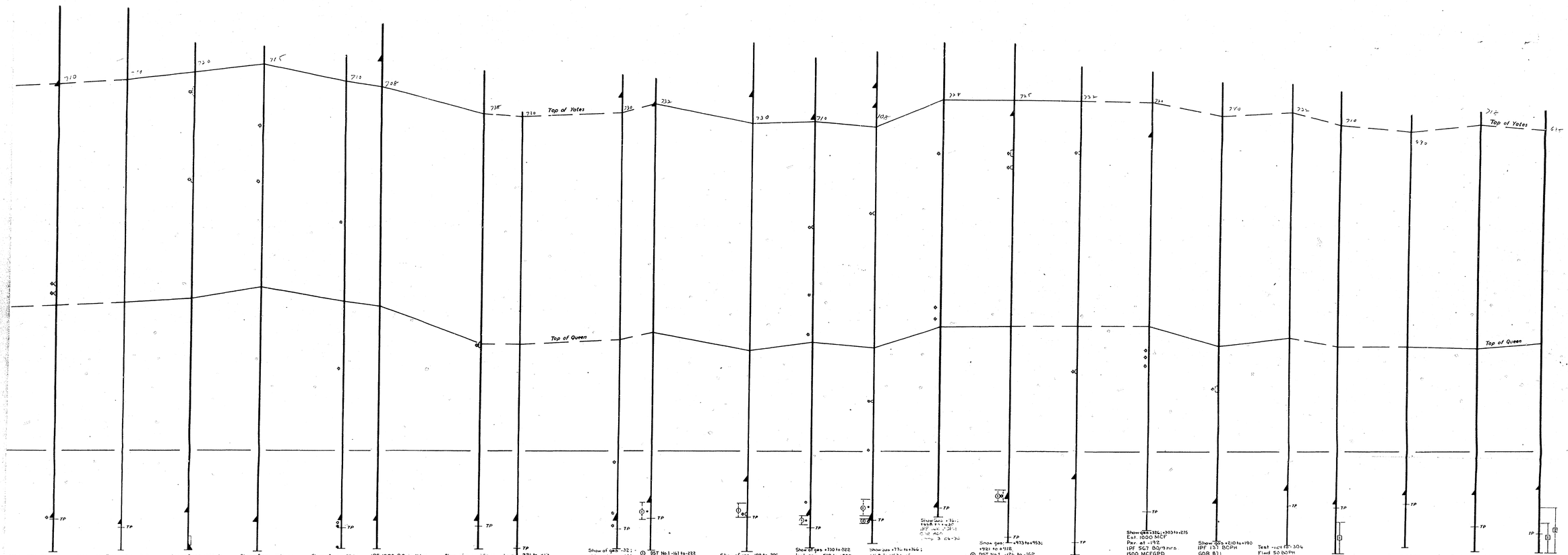
NORTH-SOUTH SECTION M-1

Scale: Vertical 1"=100'
Horizontal 1"=600'

2	SUNRAY COOPER NO.3 ELEV. 3556	CONOCO BRITT "A-6" NO.1 ELEV. 3571	CONOCO BRITT "A-6" NO.2 ELEV. 3573	TEXAS PHILLIPS NO.4 ELEV. 3583	TEXAS PHILLIPS NO.2 ELEV. 3523	SINCLAIR PHILLIPS "A" NO.2 ELEV. 3573	SINCLAIR PHILLIPS "A" NO.3 ELEV. 3583	SINCLAIR PHILLIPS "B" NO.3 ELEV. 3587	SINCLAIR PHILLIPS "B" NO.1 ELEV. 3608	CITIES SERVICE STATE "E" NO.2 ELEV. 3613	CITIES SERVICE STATE "E" NO.1 ELEV. 3645	CONTINENTAL STATE "C-30" NO.3 ELEV. 3647	CONTINENTAL STATE "C-30" NO.2 ELEV. 3676	TEXAS STATE "G" NO.2 ELEV. 3691	CONTINENTAL STATE "A-19" NO.1 ELEV. 3683	GULF CULP NO.2 ELEV. 3709	GULF CULP NO.1 ELEV. 3713	TEXAS SAUNDERS NO.2 ELEV. 3710	TEXAS SAUNDERS NO.3 ELEV. 3706	GULF KUTTER NO.1 ELEV. 3675	TEXAS B.M. KEOKANE NO.1 ELEV. 3708	GULF KYTE NO.1 ELEV. 3700	CONTINENTAL STATE "A-7" NO.1 ELEV. 3716



+912 to +925; Show of gas +541 to +521; +486 to +481; +306 to +301, at -221
Test from +221 to -329
Flowed 157 BOPH
Treated w/5000 gals.
IPF 507 BOPH
Comp. 2-13-36

Test -240 to -282
66 BOPH
1250 MCF gas/day
Comp. 11-27-36

Show of gas +113 to +86; +886 to +865
Lost returns at -189, Had 1000 psi
SI pressure after returns lost.
-202 to -205 tested 576 MCF gas w/1400 psi
SI Pressure and returns lost
Set Pkr. at -273
IPF 2.1 BOPH, 1320 MCF gas/day
Comp. 6-21-36

Recompleted 1-11-50
Set liner at TD
Perf. -275 to -304
Pumped 105 BO and 60 BW in 7 hrs.
Before work 100% water

Show of gas +1054 to +1049; +877 to +866
Lost returns -229
Test -232 to -317
Flowed 30 BOPH
Pkr set at -245
Acidized total of 6000 gals.
IPF 113 BFPD, 37% water
Comp. 10-5-36

Show of gas +1338; +1316 to +1261; -835; -845
Show of oil and gas -845 to -918
Set pkr at -854
Test Flowed 240 BO in 1 hr. 60 min.
14,000 MCF gas/day
Comp. 5-13-36

IPF 1020 BO in 11 hrs
Est. 1,500 MCF gas/day
Comp. 5-4-36

Show of gas -322; -391; -397 to -401; -237 to -242
Test -225 to -317
Flwd 170 BOPH
Est 1000 MCF gas
Treat w/3000 gals
IPF 520 BO in 5 hrs
Comp 4-6-36

① DST No.1 -161 to -222
200' Fluid in 15 min.
show of oil
50 MCF gas/day
Test -167 to -220
Flwd 20 BOPH
Treat total 3000 gals
IPF 33 BOPH
1500 MCF gas/day
Comp. 6-6-36

Show of gas -198 to -206
① DST No.1 -169 to -215
Show of gas, 95' mud
Test -99 to -325
Flwd 10 BOPH,
650 MCF gas/day
Treat 1000 gals
IPF 157 BOPH,
Est. 1500 MCF gas/day
Comp. 4-28-36

Show of gas +730 to +722
Incl. gas +510 to +502
Incl. gas +383 to +377
Incl. gas -158 to -168
① DST No.1 -208 to -238
rec 94 lfs. mud and oil
IPF 40 BOPD
308 MCF GPD
Comp 5-22-36

Show gas +776 to +746; +568 to +631; +6
② DST No.1 -150 to -207
SI show of oil
1960 MCFGPD
IPF 78 BOPH
1960 MCFGPD
Comp 5-13-36
Remedial 10-2-40,
set pkr. -264
Reduced GOR from 19,300 to 900

Show gas +873 to +953; +921 to +918
④ DST No.1 -124 to -162
small show of gas, no oil
Test -157 to -198
showed 930 MCFGPD
Test +151 to -233
16,800 MCFGPD
no oil
Test +151 to -273
+1705 MCFGPD
no oil
Test +151 to -274
20 BOPH
40% SS, FGU
Set pkr. -264
IPF 50 BOPH
Est 1000 MCFGPD
Comp. 2-14-36
Reset pkr. 11-25-50
at -271
GOR reduced from 19,300 to 567

Show gas +966 to +961
Incl gas +242 to +238
Treated w/4000 gals
IPF 451 BOPD
230 MCFGPD
Comp. 11-20-35

Show gas +326; +303 to +275
Est. 1000 MCF
Per. at -195
IPF 567 BO/9 hrs.
1500 MCFGPD
Comp. 9-25-35

Show gas +210 to +190
IPF 131 BOPH
GOR 871
Comp. 4-29-36

Test -167 to -304
Flwd 50 BOPH
w/6000 GOR
Pkr Setting unknown
IPF 222 BO/6 hrs
1170 MCFGPD

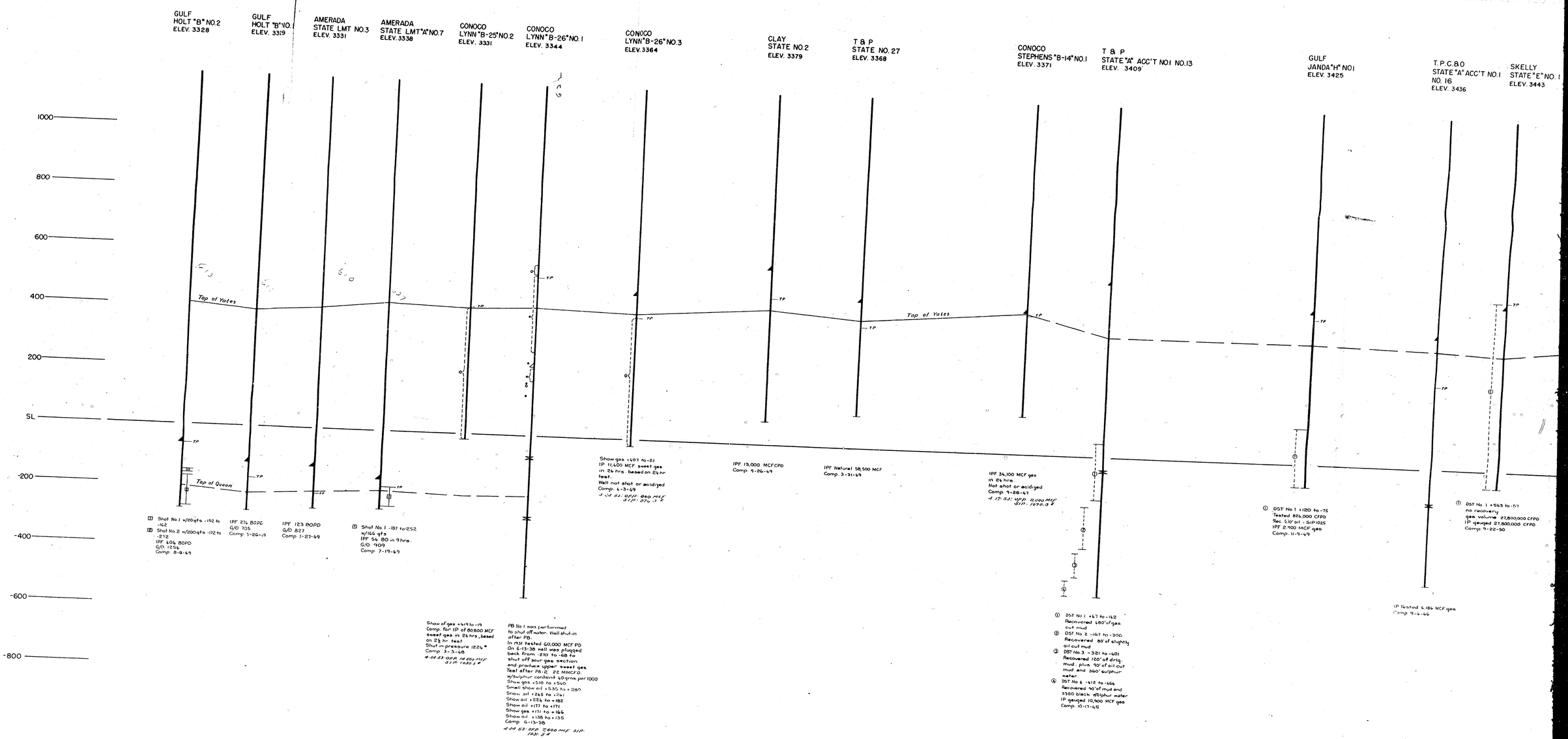
Treated w/total of 10,000 gals
Shot No.1 w/250 qts from -232 to 332
IPF 118 BF/21 hrs
12.5 BS&W
750 MCF GPD
Comp 10-24-36

IPF 60 BOPH
2000 MCFGPD
Comp 7-20-37

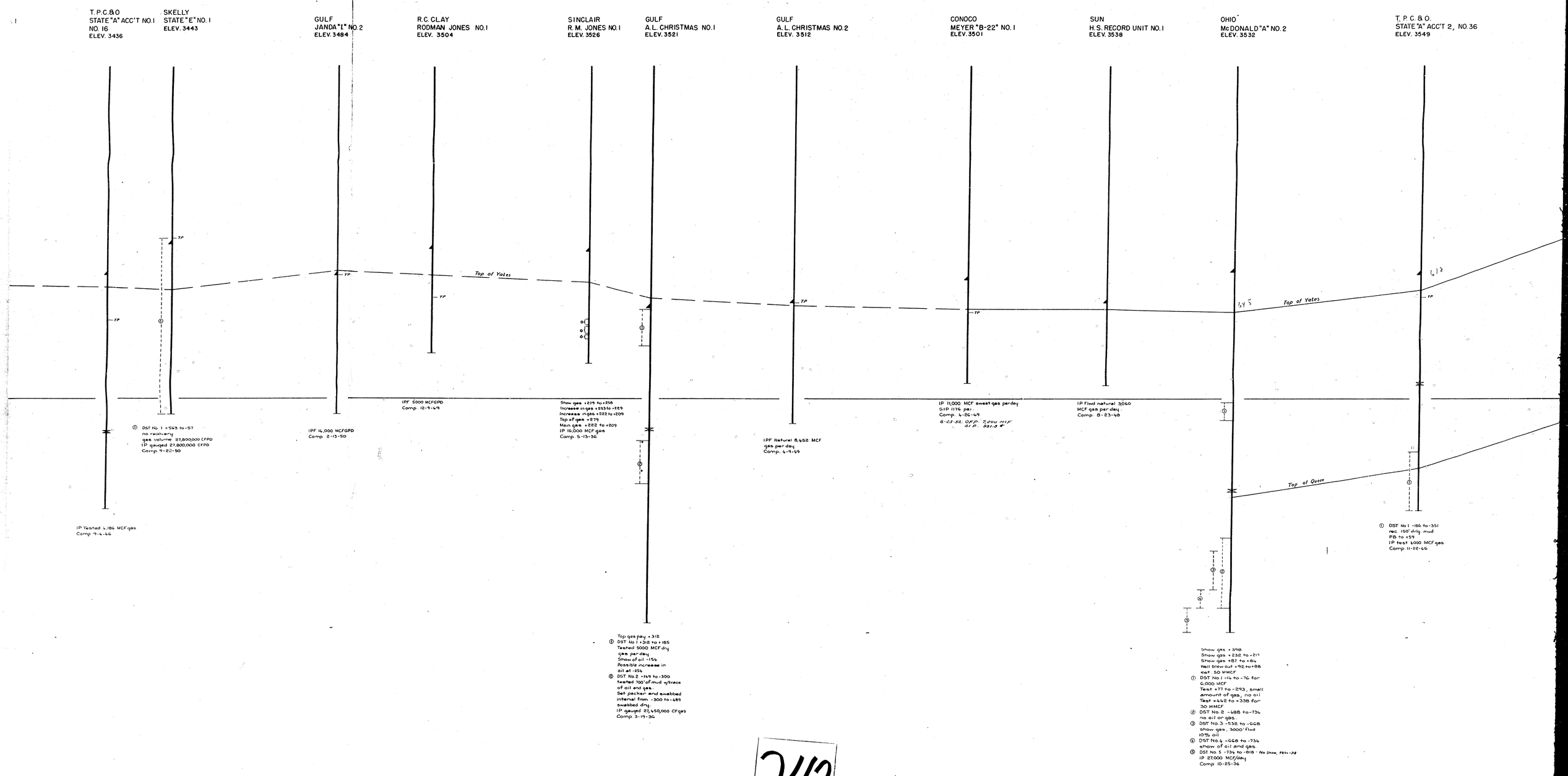
Test -161 to -325
Flwd 68 BO in 16 hrs
Treat w/200 gals
IPF 221 BO in 6 hrs.
1573 MCFGPD
Comp 9-24-37

Test -127 to -312
no oil, gas or water
Test -127 to -330
no oil, gas or water
Shot No.1 w/180 qts -234 to -330
Treated w/3000 gals
Shot No.2 w/350 qts -184 to -330
IPF by G.L. 66 BO, 2 BW per day
Comp 11-29-37

EXH. NO. 15



GULF HOLT "B" NO.2 ELEV. 3328
GULF HOLT "B" NO.1 ELEV. 3329
AMERADA STATE LMT NO.3 ELEV. 3331
AMERADA STATE LMT "A" NO.7 ELEV. 3338
CONOCO LYNN "B-25" NO.2 ELEV. 3331
CONOCO LYNN "B-26" NO.1 ELEV. 3344
CONOCO LYNN "B-26" NO.3 ELEV. 3364
CLAY STATE NO.2 ELEV. 3379
T & P STATE NO. 27 ELEV. 3368
CONOCO STEPHENS "B-14" NO.1 ELEV. 3371
T & P STATE "A" ACC'T NO.1 NO.13 ELEV. 3409
GULF JANDA "H" NO.1 ELEV. 3425
T.P.C.&O STATE "A" ACC'T NO.1 NO. 16 ELEV. 3436
SKELLY STATE "E" NO. 1 ELEV. 3443
1000
800
600
400
200
SL
-200
-400
-600
-800
Top of Yates
Top of Queen
TP
① Shot No.1 w/20 qts -152 to -162
② Shot No.2 w/200 qts -172 to -272
IPF 404 BOPD G/O 1254 Comp. 8-9-49
IPF 274 BOPD G/O 705 Comp. 5-26-49
IPF 123 BOPD G/O 827 Comp. 1-27-49
① Shot No.1 -187 to -252 w/166 qts
IPF 54 BO in 9 hrs. G/O 909 Comp. 7-19-49
Show of gas +419 to -19
Comp. for IP of 80,800 MCF sweet gas in 24 hrs., based on 2½ hr. test
Shut in pressure 1224#
Comp. 3-3-48
4-24-53: OFP. 14,520 MCF SIP. 1030.3#
PB No.1 was performed to shut off water. Well shut in after PB.
In 1931 tested 60,000 MCF PD
On 6-13-38 well was plugged back from -270 to -68 to shut off sour gas section and produce upper sweet gas
Test after PB-2 22 MMCFD.
w/sulphur content 40 grns. per 1000
Show gas +510 to +540
Small show oil +535 to +280
Show oil +245 to +241
Show oil +224 to +182
Show oil +177 to +171
Show gas +171 to +166
Show oil +138 to +135
Comp. 6-13-38
4-24-53: OFP. 7,600 MCF SIP. 1031.3#
Show gas +407 to -21
IP 11,400 MCF sweet gas in 24 hrs. based on 24 hr test.
Well not shot or acidized
Comp. 4-3-49
4-24-53: OFP. 860 MCF SIP. 970.3#
IPF 13,000 MCFCPD Comp. 9-26-49
IPF Natural 58,500 MCF Comp. 3-31-49
IPF 34,100 MCF gas in 24 hrs.
Not shot or acidized
Comp. 9-28-49
4-17-53: OFP. 11,000 MCF SIP. 1070.3#
① DST No.1 +67 to -162
Recovered 480' of gas cut mud
② DST No.2 -167 to -306
Recovered 80' of slightly oil cut mud
③ DST No.3 -321 to -401
Recovered 120' of drlg. mud, plus 90' of oil cut mud and 360' sulphur water.
④ DST No.4 -412 to -464
Recovered 90' of mud and 3300 black sulphur water
IP gauged 10,900 MCF gas
Comp. 10-17-45
① DST No.1 +120 to -75
Tested 824,000 CFPD
Rec. 610' oil - SIP 1025
IPF 2,900 MCF gas
Comp. 11-9-49
IP Tested 6,186 MCF gas
Comp. 9-4-46
① DST No.1 +563 to -57
no recovery
gas volume 27,800,000 CFPD
IP gauged 27,800,000 CFPD
Comp. 9-22-50


T.P.C.&O
STATE "A" ACC'T NO.1
NO. 16
ELEV. 3436
SKELLY
STATE "E" NO. 1
ELEV. 3443
GULF
JANDA "I" NO.2
ELEV. 3484
R.C. CLAY
RODMAN JONES NO.1
ELEV. 3504
SINCLAIR
R. M. JONES NO.1
ELEV. 3526
GULF
A.L. CHRISTMAS NO.1
ELEV. 3521
GULF
A. L. CHRISTMAS NO.2
ELEV. 3512
CONOCO
MEYER "B-22" NO. 1
ELEV. 3501
SUN
H. S. RECORD UNIT NO. 1
ELEV. 3538
OHIO
McDONALD "A" NO. 2
ELEV. 3532
T. P. C. & O.
STATE "A" ACC'T 2, NO. 36
ELEV. 3549
Top of Yates
Top of Yates
Top of Queen
TP
IP Tested 4,186 MCF gas
Comp. 9-4-46
① DST No. 1 +563 to -57
no recovery
gas volume 27,800,000 CFPD
IP gauged 27,800,000 CFPD
Comp. 9-22-50
IPF 14,000 MCFGPD
Comp. 2-13-50
IPF 5000 MCFGPD
Comp. 12-9-49
Show gas +279 to +258
Increase in gas +253 to +229
Increase in gas +222 to +209
Top of gas +279
Main gas +222 to +209
IP 16,000 MCF gas
Comp. 5-13-36
Top gas pay +312
① DST No 1 +312 to +185
Tested 5000 MCF dry
gas per day
Show of oil -154
Possible increase in
oil at -254
② DST No 2 -149 to -300
tested 700' of mud w/trace
of oil and gas.
Set packer and swabbed
interval from -300 to -489
swabbed dry.
IP gauged 27,450,000 CF gas
Comp. 3-19-36
IPF Natural 8,452 MCF
gas per day
Comp. 4-9-49
IP 11,000 MCF sweet gas per day
SIP 1176 psi.
Comp. 4-26-49
6-23-52: OFP. 7,200 MCF
SIP. 351.3 #
IP Flwd natural 3,060
MCF gas per day.
Comp. 8-23-48
Show gas +398
Show gas +232 to +217
Show gas +87 to +84
Well blew out +92 to +88
est. 50 MMCF
① DST No 1 -14 to -76 for
6,000 MCF
Test +77 to -293, small
amount of gas, no oil
Test +442 to +338 for
30 MMCF
② DST No. 2 -488 to -734
no oil or gas.
③ DST No. 3 -532 to -668
show gas, 3000' flwd
10% oil
④ DST No. 4 -668 to -734
show of oil and gas.
⑤ DST No. 5 -734 to -818 · No Show, PB to -318
IP 27,000 MCF/day
Comp. 10-25-34
① DST No 1 -186 to -351
rec. 150' drlg. mud.
PB to +59
IP test 4,000 MCF gas.
Comp. 11-22-46

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T. P. C. & O.
STATE "A" ACC'T 2, NO. 36
ELEV. 3549

T. P. C. & O.
STATE "A" ACC'T 2, NO. 15 A
ELEV. 3561

CONOCO
STATE "J" 2 NO. 6
ELEV. 3530

CONOCO
STATE "J" 2 NO. 7
ELEV. 3531

CONOCO
STATE "J" 2 NO. 9
ELEV. 3559

CONOCO
STATE "J" 2 NO. 1
ELEV. 3567

GULF
RAMSEY "A" NO. 7
ELEV. 3586

GULF
FELTON NO. 1
ELEV. 3602

CONOCO
LOCKHART B-28
NO. 3
ELEV. 3631

CONOCO
LOCKHART B-28
NO. 2
ELEV. 3629

CONOCO
LOCKHART B-28
NO. 1
ELEV. 3619

GULF
STATE ARNOTT
"C" NO. 1
ELEV. 3603

GULF
STATE ARNOTT
"C" NO. 3
ELEV. 3599

GULF
STATE ARNOTT
"C" NO. 4
ELEV. 3611

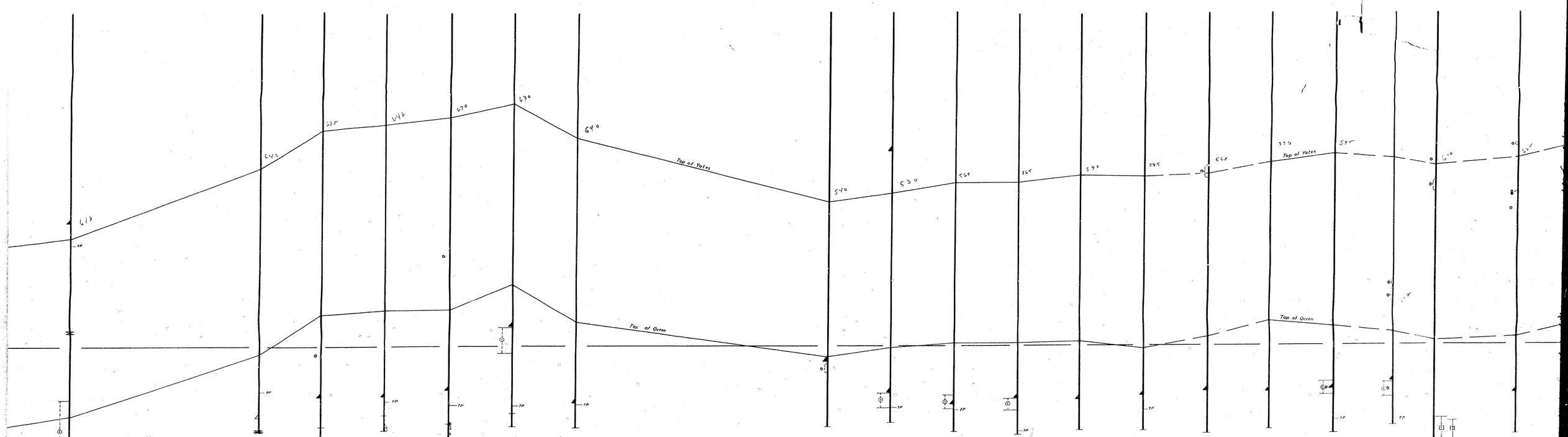
GULF
STATE ARNOTT
"C" NO. 2
ELEV. 3632

CONOCO
MEYER B-17
NO. 2
ELEV. 3646

CONOCO
MEYER B-17
NO. 1
ELEV. 3639

TIDEWATER
COLEMAN NO. 1
ELEV. 3632

TIDEWATER
COLEMAN NO. 2
ELEV. 3624



① DST No 1 -186 to-351
rec 150' drlg mud.
FP to +59
IP test 6,000 MCF gas
Comp 11-22-46

Slight increase in oil 3842-47
IP 203 BO in 24 hrs
open tubing 50 to 100,000 CFG
Comp 5-9-39

Show of gas at -30
IP 66 BO per hr on
two hr test w/845
MCF gas, packer set at -212.
Well not shot or acidized
Comp 4-27-39
To shut off water whipstock set at -195 and well deepened to -352
Liner has run to total depth and perforated from -336 to -339
Ran tubing and set packer at -332
Acidized -336 to -339 w/500 gals.
IP 384 BO,
No water in 24 hrs. w/171 MCF of sour gas
GOR 445
Comp 2-10-48

IP +20 BOPH w/1400 MCF gas
Comp 5-24-40
To shut off water well deepened to -294 set liner to total depth
Perforated liner -277 to -281 and -288 to -291
Set packer at -263 and acidized perf. w/500 gallons
Before 22 BO,
35% BW
After 211 BO, 0 BW

Slight show of gas at +319
At -250 well fluid
120 BOPH naturally w/9000 MCF
IP 71 BOPH w/720 MCF gas w/packer at -161
Comp 8-2-40
Well deepened to -321 and liner set to total depth.
Perforated -301 to -307
Acidized w/500 gals.
Perforated -275 to -289 and -266 to -271
Set packer at -257 and acidized with 500 gals
Before 51 8 BO,
95 BW
After 372 BO,
0 BW

① DST No 1 +47 to -23
showed 500 MCF gas,
no oil, 225' of drilling mud
Test 32 BOPH w/8150 MCF gas w/no packer
Test 16 BOPH w/310 MCF w/packer set at -209
IP -386 BOPD w/310 MCF w/packer set at -209
Comp 5-24-38
To increase production and lower ratio, well was deepened to -290 and swt packer at -196.
Before 38 BO, 0 W,
GOR 7760
After 57 BO, 0 W,
GOR 1968

IPF 62.3 BOPH w/850 MCF
Comp 9-26-40

Show gas -63 to -95
At -98 tested 7,800 MCF gas
Tested 12½ B fluid/hr
4% water w/9000 MCFG from -104 to -283
After 61 for 3 days
Flowed 99 BO in 6 hrs
IPF 210 BO in 6 hrs w/8260 MCFG
Packer at -1156
Comp 12-11-37

① DST No 1 -104 to -219
2100' of oil, no gas
Tested 20 BOPH between -163 and -224
IP 154 BOPH w/1,590,000 CFG
Flowing natural
Comp 4-2-38

① DST No 1 -177 to -221
recovered 135' fluid
½ oil and 2,300,000 CF gas
Tested 35 BOPH and 1,250,000 CF gas from -203 to -211
Tested 35 BOPH and 1,250,000 cu ft gas per day from -221 to -301
IP 44 BOPH and 1,300 MCFG per day
Comp 2-13-38

① DST No 1 -185 to -226
Small amount of gas and 195' of mud and oil
IP 28 BOPH w/270,000 cu ft gas per day.
Comp 2-8-38

IP +40 BO in 12 hrs.
w/1000 MCFG per day
Comp 11-16-38

IPF 484 BO in 12 hrs
w/1,000,000 CFG
Comp 1-20-38

Show +625 to +563
IP 302 BO in 6 hrs
w/750,000 CFG
Comp 2-1-38

IP -858 BOPD
Comp 12-28-38

① DST No 1 -129 to -174
showed 500,000 CF gas
no oil
Tested 16 BOPH and 700,000 CFGPD at -27
Test 40 BOPH and 700,000 CFGPD at -30
IPF 40 BOPH and 700,000 CFGPD
Comp 12-6-38

Show gas +228 to +206
Show gas +206 to +145
② DST No 1 froze gas no oil -131 to -19
Tested at -211 no oil or gas
Tested at -218 to -221
2½ BOPH by GL
Treated w/3000 gals
then test 15 BO in 6½ hrs by GL
Retreated well w/1500 gals
IPF +20 BOPH w/911,000 CFGPD
Comp 9-18-38

Small show gas +642
Show gas -537 to -535
Test +681 to +663
wet mated 10 000 MCF
Before shot flowed 375 BOPD
① Shot No 1 w/75 qts -258 to -336
② Shot No 2 w/175 qts -268 to -336
Swept in water - SIW to -400 and -543 to -514
IP -259 BOPD

Show gas +704 to +694
Show gas +634 to +528
Show oil and gas +528 to +523
Show gas +474 to +471
Acidized w/1000 gals
IP 756 BOPD
Comp 6-11-34

NORTH - SOUTH SECTION M-2

Scale: Vertical - 1" = 100'
Horizontal - 1" = 600'

7	CONOCO MEYER B-17 NO. 1 ELEV. 3639	TIDEWATER COLEMAN NO. 1 ELEV. 3632	TIDEWATER COLEMAN NO.2 ELEV. 3624	GULF BELL STATE NO. 2 ELEV 3606	GULF RAMSEY NO.1 ELEV. 3596	CONOCO MEYER B-9 NO.2 ELEV. 3558	CONOCO MEYER B-9 NO. 4 ELEV. 3580	CONOCO MEYER B-4 NO.1 ELEV. 3592	CONOCO MEYER B-4 NO.4 ELEV. 3595	CONOCO MEYER B-4 NO.6 ELEV. 3577	CONOCO MEYER B-4 NO.9 ELEV. 3567	CONOCO MEYER B-4 NO.12 ELEV. 3553	CONOCO MEYER B-4 NO.15 ELEV. 3545	SHELL STATE "J" NO.1 ELEV. 3544	REPOLLO STATE 196 NO.2 ELEV. 3546	ATLANTIC STATE "O" NO.1 ELEV. 3545	ATLANTIC STATE "O" NO.2 ELEV. 3539	CITIES SERVICE STATE "F" NO. 3 ELEV. 3536
	610	627	635	647 Top of Yates	618	648	632	648	618	620	650	650	660 Top of Yates		666	673	684	
	637			Top of Queen									Top of Queen					

Show gas +228 to +206
Show gas +206 to +145
① DST No. 1 trace gas, no oil -131 to -181
Tested oil -211, no oil or gas.
Tested at -281 for 2½ BOPH by GL
Treated w/ 3000 gals then rest 45 BO in + ⅜ hrs by GL
Retreated well with 6000 gals.
IPF 40 BOPH w/913,000 CFPD
Comp 9-18-36

Small show gas +642
Show gas +537 to +535
Test +687 to +643 estimated 10,000 MCF
Before shot flowed 375 BOPD
[1] Shot No. 1 w/75 qts -258 to -336
[2] Shot No. 2 w/175 qts -258 to - 336
Sulphur water -398 to -400 and -513 to -515
IP 1215 BOPD
Comp 10-4-36

Show gas +706 to+696
Show gas +534 to +528
Show oil and gas +528 to + 523
Show gas +474 to +471
Acidized w/1000 gals
IP 750 BOPD
Comp 6-11-36

Tested -142 to -310, 690 BOPD w/ 350 MCF

Show oil +91
IP 1188 BOPD w/2150 MCF gas
Comp 9-18-36

Increase in gas -82 to -92
① DST No 1 -177 to -167
Showed 600,000 CFG
Tested 25 BOPH and 2½ MMCF at -199
Tested 50 BOPH and 3½ MMCF at -117
No increase in oil from -217 to -267
Comp 6-6-36
Packer set at -225 on 8-7-36 to eliminate high ratio temporarily successful
Deepened
Tested and acidized -301 to -307 No oil, gas or water
Tested and acidized -248 to -265, -287 to -295, -277 to -283, -265 to -271 No oil, gas or water
Tested and acidized -245 to -260, No oil, gas or water
Tested and acidized -187 to -226 for 101 BO and no water in 13 hrs
IPF 100 BO and no water w/GOR 1,620
Comp 7-14-48
Before 28 BO, no water, GOR 8,536
After 100 BO, no water GOR 1,620

Tested 2½ MMG from -137 to -143
① DST No 1 -175 to -127 for 100,000 CFG, no oil
Small increase in gas and no oil to -197
Tested 6 BOPH and 10 MMCF at -200, gas coming from -176 to -182
No increase in oil or gas to -304
IPF 144 BO w/ 3000 MCF gas
Comp 7-15-36
On 10-14-36 packer was set at -112 and acidized w/ 3000 gals
Flwd 300 BOPD 1000 MCFG

① DST No 1 -162 to -188 for 439,000 CFG
Tested no oil or gas -186 to -218
Tested no oil or gas -218 to -856
IP 384 BOPD and 2,304,000 CFG
Comp 2-28-36

Show gas +595
Show gas +242
Show gas +45
① DST No 1 -155 to -205, small show gas.
Tested at 36½ BOPH and 600 MCF by gas lift at -265
Tested at 38 BOPH and 600 MCF at +245
IP 302½ BOPH and 768 MCF natural
Comp 2-19-36

Increase in gas +518
Show of oil at -181
① DST No 1 -113 to -208, -155 MCF gas
Tested 30 BOPH at -263
IP GC BOPH and 915 MCF gas
Comp 4-13-36

Show gas +625
Show gas +392 to +382
① DST No 1 -184 to -218
Showed 62 MCFG
Tested 35 BOPH and 915 MCF gas from -218 to -293
IP 100 BOPH and 915 MCF natural
Comp 5-6-36

Show gas +535
Increase in gas +178
① DST No 1 76,000 CFG and 200' of oil in 20 min -196 to -222
Test 12½ BO in 1hr. by gas lift at -296
Tested 12½ BOPH +62 MCF gas by gas lift at -307
IP 81 BO in 20 hrs and 100 MCF gas natural
Comp 6-27-36
Acidized well below formation packer at -149 w/1700 gals on 1-12-47
Before oil, 1180, 18W, 17,103 GOR
After oil, 4880, 71 BW 4620 GOR

Show gas +600
Increase in gas +630
Increase in gas +481
① DST No 1 showed 835 MCF gas w/slight show of oil from -139 to -198
[1] Wait shot No 1 w/195 qts -213 to -312
IP 144 BOPD and 196 MCF gas
Comp 10-14-36

① DST No 1 -151 to -201, 2000 MCF gas, 2400 oil and mud -25 min Before acid swbd dry
After acid (2000 gals and 6,000 gals) Flwd 32 BO in 7 hrs 8000 MCF gas from -191 to -301
Swt pkr at -221
Treated w/5000 gals in 2 treatments
IPF 58 BOPD, 3% BS & W
200 MCF gas.
Comp. 6-27-36

Before acid swbd dry
Treated w/6000 gals
IPF 78 BO in 18hrs
Comp 3-10-36

① DST No 1 -190 to -240, 50 MCF gas
Before acid Flwd. by GL 1 BOPH
acidized w/3000 gals
Comp 5-15-37
Later recompleted as gas well as follows:
Perf. - 393 to - 355
tested no oil or gas
Perf - 750 to -625
tested no oil or gas
Perf -225 to -150
IPF 7,300 MCF gas.
Shut-in press 1160 psi
Comp 7-9-48

① DST No 1 -191 to -241, 300 oil, 450 mud in 15 min Est 150 MCF gas
Before acid tested 5 BOPH by gas lift.
Treated w/total of 8000 gals
IPF 28 BOPH, 500 MCF gas
Comp 6-13-37
Later recompleted as gas well as follows
Perf -174 to -144
IPF 13,200 MCF gas
Comp 9-11-47

Show gas -204 to -217
Before acid Flwd. 5 BOPH
Treated w/2000 gals
IPF 40 BOPH.
Est 500 MCF gas/day
Comp 1-13-37

Bosco

EXH. NO. 16

Ohio Oil Co.
Wills 1-B
Elev. 2984'

Ohio Oil Co.
Wills 3-B
Elev. 2989'

Texas Co.
Rhodes 13-B
Elev. 2984

Texas Co.
Rhodes 2-B
Elev. 2988'

Texas Co.
Rhodes 1-B
Elev. 2991'

Texas Co.
Rhodes 5-B
Elev. 2992'

Texas Co.
Rhodes 4-A
Elev. 2991'

Texas Co.
Rhodes 6-A
Elev. 2987'

Texas Co.
Moberly 1-B
Elev 2995'

Great Western
I State
Elev. 2985'

Texas Co.
State IY
Elev. 2994'

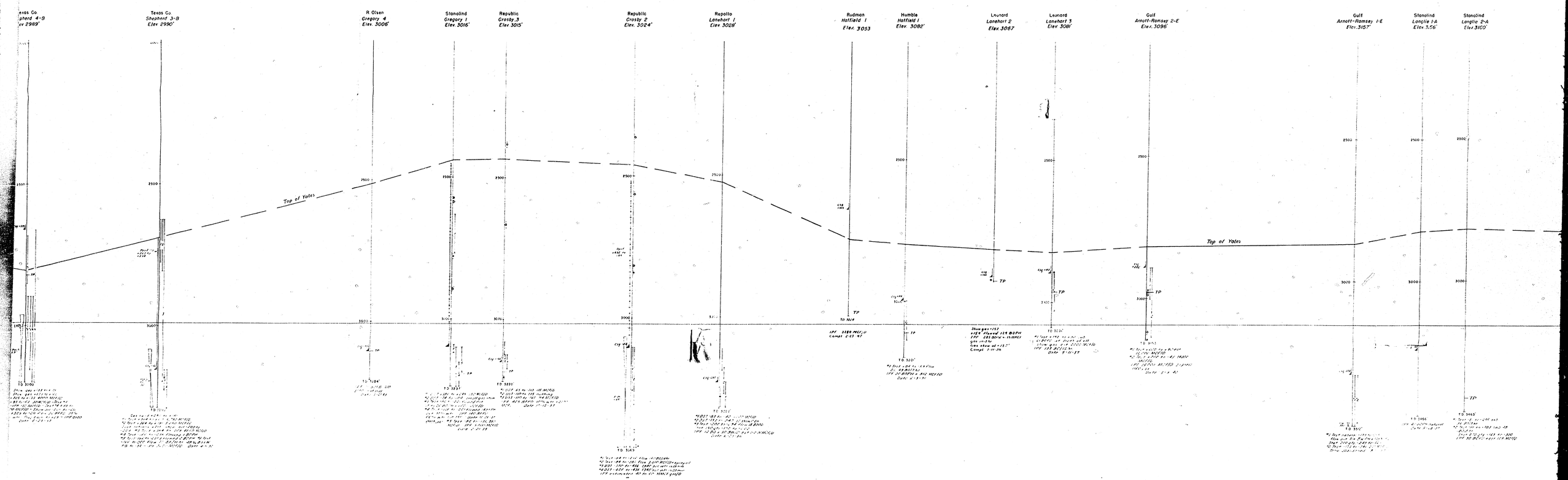
Texas Co.
Cagle 2-A
Elev 2985'

Texas Co.
Shepherd 4-B
Elev 2989'

Texas Co.
Shepherd 3-B
Elev. 2990'

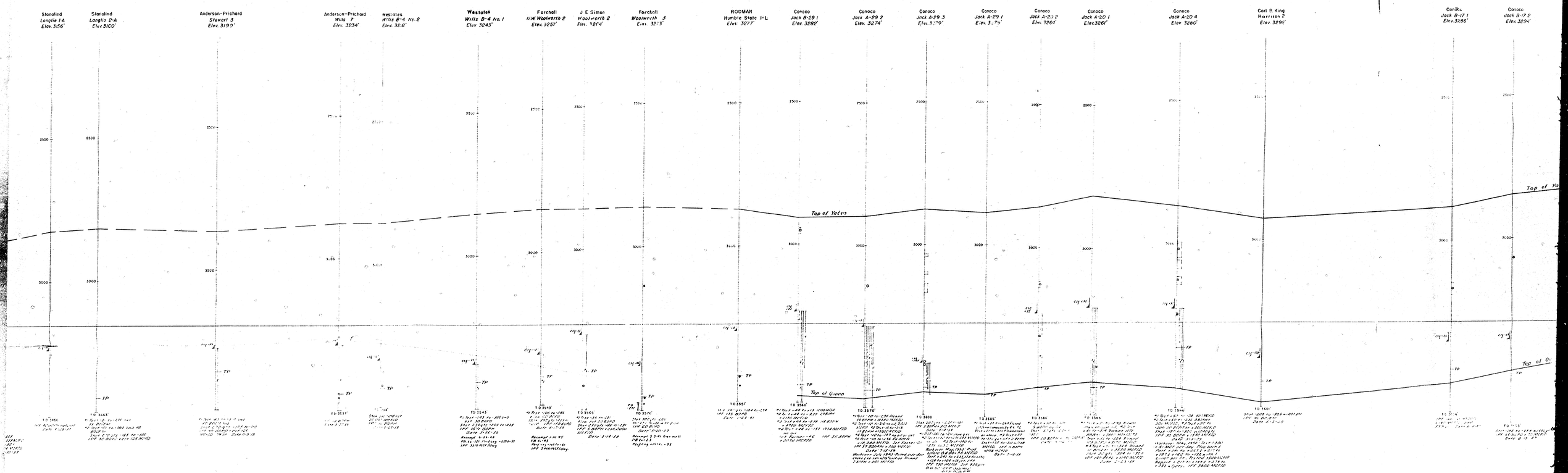
Top of Yates

245



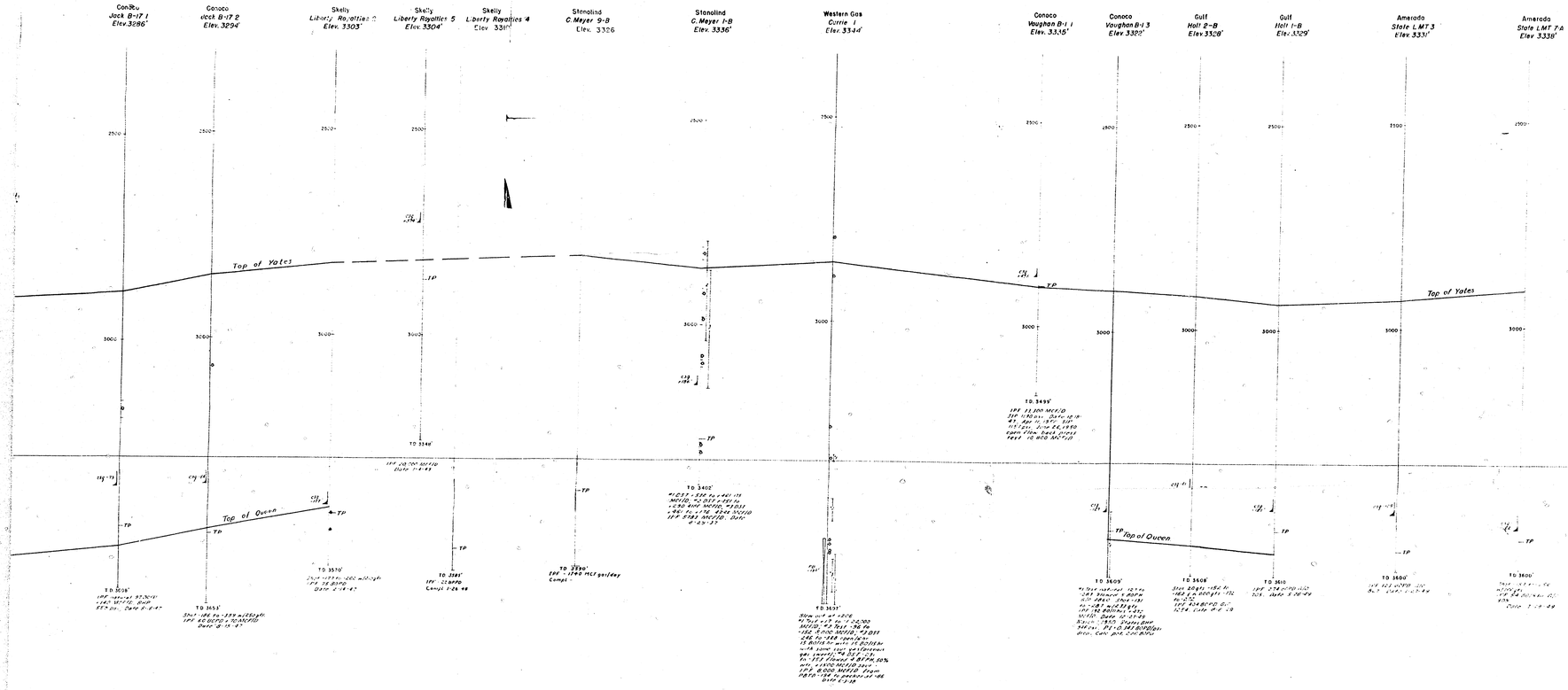
Texas Co.
Shepherd 3-B
Elev. 2990'
R. Olsen
Gregory 4
Elev. 3006'
Stanolind
Gregory 1
Elev. 3016'
Republic
Grosby 3
Elev. 3015'
Republic
Grosby 2
Elev. 3024'
Repollo
Lanehart 1
Elev. 3028'
Rudman
Hatfield 1
Elev. 3053
Humble
Hatfield 1
Elev. 3082'
Leonard
Lanehart 2
Elev. 3067
Leonard
Lanehart 3
Elev. 3081'
Gulf
Arnott-Ramsey 2-E
Elev. 3096'
Gulf
Arnott-Ramsey 1-E
Elev. 3157'
Stanolind
Langlie 1-A
Elev. 3156'
Stanolind
Langlie 2-A
Elev. 3160'
Top of Yates
Top of Yates
2500
3000
TP

246


Stanolind
Langlie 1-A
Elev. 3156'
Stanolind
Langlie 2-A
Elev. 3100'
Anderson-Prichard
Stewart 3
Elev. 3199'
Anderson-Prichard
Wills 7
Elev. 3234'
Westates
Wills B-4 No. 2
Elev. 3218'
Westates
Wills B-4 No. 1
Elev. 3243'
Forchall
N.W. Woolworth 2
Elev. 3257'
J E Simon
Woolworth 2
Elev. 3264'
Forchall
Woolworth 3
Elev. 3273'
RODMAN
Humble State 1-E
Elev. 3277'
Conoco
Jack B-29 1
Elev. 3282'
Conoco
Jack A-29 2
Elev. 3274'
Conoco
Jack A-29 3
Conoco
Jack A-29 1
Conoco
Jack A-20 2
Elev. 3264'
Conoco
Jack A-20 1
Elev. 3261'
Conoco
Jack A-20 4
Elev. 3280'
Carl B. King
Harrison 2
Elev. 3292'
Conoco
Jack B-17 1
Elev. 3286'
Conoco
Jack B-17 2
Elev. 3294'
Top of Yates
Top of Queen
Top of Yates
Top of Queen
2500
3000
TP

247

NORTH-SOUTH SECTION M-3
Scale: Vertical- 1" = 100'
Horizontal- 1" = 600'



EXH. NO. 7

248

TWO STATES
HILL NO. 1
ELEV. 3499

CONOCO
MEYER B-31 NO. 1
ELEV. 3500

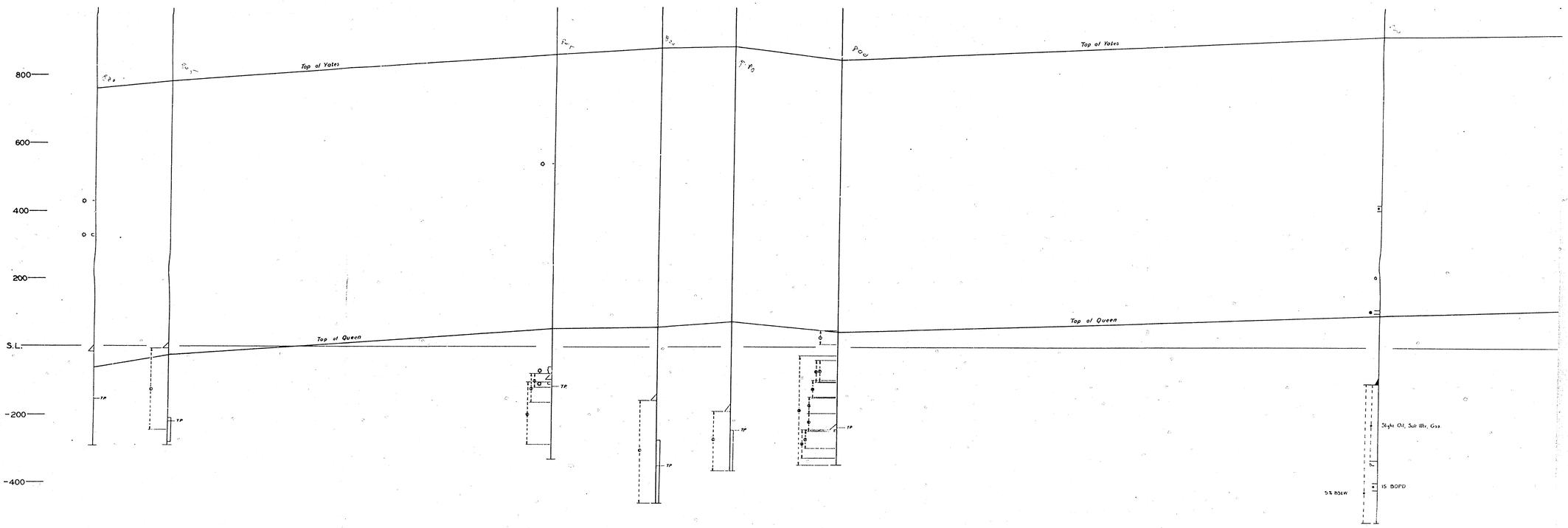
CONOCO
WARREN A-30 NO. 1
ELEV. 3531

CONOCO
HAWK B-30 NO. 1
ELEV. 3541

CONOCO
BURGER A-19 NO. 4
ELEV. 3545

CONOCO
SKAGGS A-24 NO. 1
ELEV. 3555

CRANFILL & GERMANY
WEIR NO. 1
ELEV. 3564'



Slt. show gas +431
Slt. show gas +335 to 328
IPF 19 BOPH, 200 MCFGPD
Comp. 7-25-38

Test #1: -6 to -245 flowed 32 BOPH w/1250 MCFGPD
IPF 108 BO/3 hrs w/823 MCFGPD
Comp. 9-5-38
Shot w/150 qts. from -210 to -280
Recomp. 4-13-40 for IPF 72 BOPD, 288 MCFGPD. Prod. before, work 30 BOPD

Show gas +541
Inc. gas -59 to -79
DST #1: -59 to -121: no oil gas or wtr.
DST #2: -59 to -182: recvr slt. show gas & oil
DST #3: -104 to -286, open 20 min. rcd. 240 ft. mud & oil, show gas.
Show gas -204 to -210

Test #1: -158 to -459 Flo 116 BO/5 hrs.
Shot w/223 qts. from -272 to 459
IPF 71 BO/3 hrs w/316 MCFGPD
Comp. 9-10-50

Test #1: -189 to -303 no oil gas or wtr.
Shot w/300 qts from -243 to -363
IPF 30 BO/5 hrs. 92 MCFGPD
Comp. 6-4-50

DST #1: +49 to +9; 98 MCFGPD no oil
DST #2: -39 to -101; 43 MCFGPD no oil,
DST #3: -39 to -102; 43 MCFGPD no oil
DST #4: -98 to -148; 60 MCFGPD no oil
DST #5: -145 to -193; no oil or gas
DST #6: -193 to -246; no oil or gas
DST #7: -243 to -288; 150 ft. drlg. fluid & show oil.
Test #8: -241 to -325; no oil, gas or wtr.
Test #9: -24 to -242; 4% BOPH by GL
Acidized w/5400 gals.
IPF 21 BOPH w/400 MCFGPD
Comp. 3-26-37

Oil show +918
Gas show +201
Oil + Gas show -112 to -101
Test -104 to -329, 600 MCF gas
Slt show of oil + water
Tr w/2000 gal. Tested 10 BOPD 1200 MCF gas, show of water of -336
Test -394 to -416, 15 BOPD
Tr w/5000 gal. Test 3500 MCF gas
Test -104 to -511 after 2,000 gal
Swbd 54 BF in 12 hr 5% BSW
PB to -500. swb 16 BF in 10 hr 40% BSW - Deep to -440, no shows. Plugged 7-14-37

NORTH-SOUTH SECTION E-1

Scale: Vertical 1"-100'
Horizontal 1"-600'

& GERMANY
1
4"

EL PASO NAT.
SHELL STATE NO. 1
ELEV. 3573

NOLAN & LANE
WILLIAMS NO. 2
ELEV. 3573

REPOLLO
WILLIAMS NO. 1
ELEV. 3587

SOUTHERN UNION GAS
BURKE NO. 1
ELEV. 3597

GULF
BURKE NO. 1
ELEV. 3602

GULF
SHIPP NO. 1
ELEV. 3640

788
762
835
850
Top of Yates
Top of Queen
S.L.
TP
PBD 1-1046
TD 1417

800
600
400
200
-200
-400
-600

Slight Oil, Sub Wtr. Gas.

15 BOPD

+918
+201
Saw +112 to +101
0-329, 600 MCFgas
sulf-water
Init. tested 10 BOPD
no show of water.

to -916, 15 BOPD
Init. Test 3,500 MCF

Sil after 2,000 gal
1 in 12 hr 5% BS+W
and 16 BF in 10 hr
Deep. to -946.
Plugged 7-14-37

Show gas +147
Show gas 163
Show gas -37 to -42
Show gas -72
Show gas -127
Show gas -137
Show oil -357
Test #1: -62 to -357, 7000 MCFGPD
Test #2: -62 to -432 sub wtr. Sit. show oil & gas
P.B. to -395
Test #3: -62 to -395 swb. 100% sulfer water.
P.B. to -362
Test #4: -62 to -362 Flowed 60 BFPD, 50% wtr. GOR 42 MCFGPD
P.B. to -62
Perf. +25 to -5
Treated w/ 500 gal.
IPF 12,000 MCFGPD.
Comp. 6-4-50

Show gas +28 to +13
Show oil -227
Show oil -292
Show gas -347
Test #2: -127 to -347 3500 MCFGPD show of oil
Inc. gas -347 to -357
Test #2: -127 to -357 8000 MCFGPD
IPF est. 5000 MCFGPD

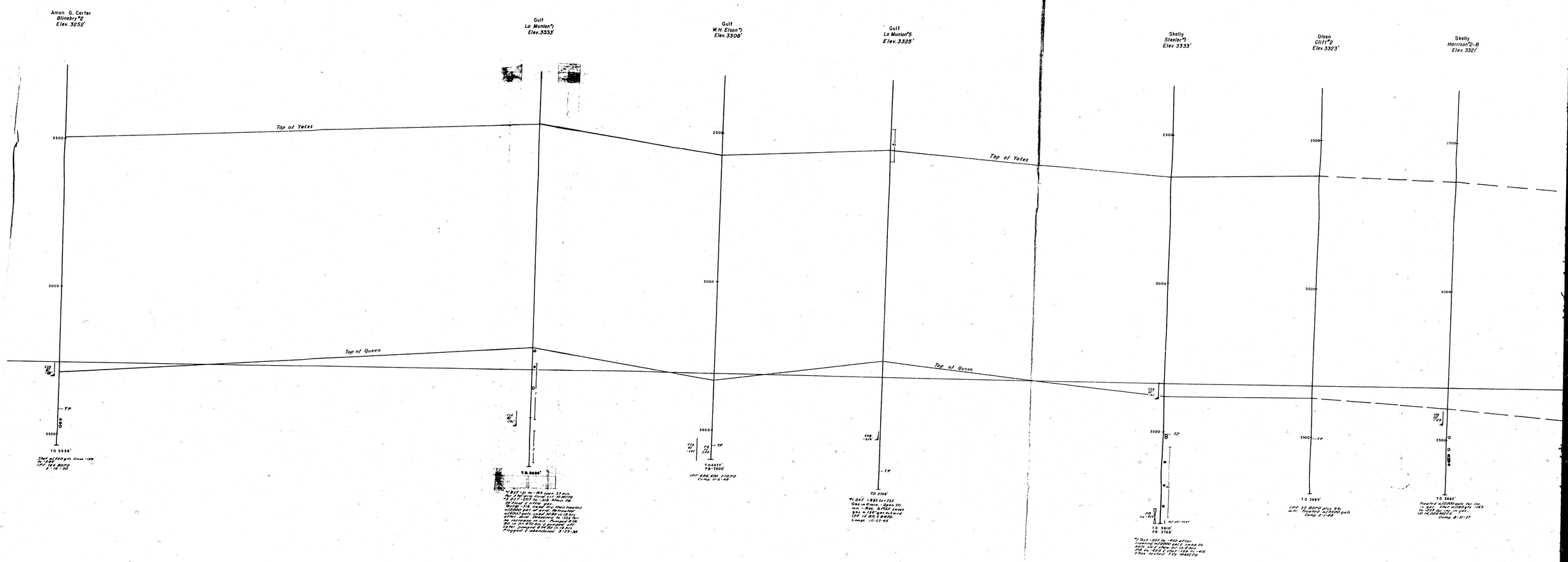
Show gas -68
Inc. gas -78 to -85
DST #1: -163 to -213 no oil or gas
Show oil -273 to -278
Show oil -328
Show water -351; two bailers/hr.
Acidized w/4000 gals.
Tested 175 to -366 100% water
Set packer at -484
Acidized w/2000 gals sub dry
Pulled packer
IPF 15 BOPD +157 BWPD
Comp 3-27-36

PB to +100
IPF 5690 MCFGPD
Comp 10-3-50

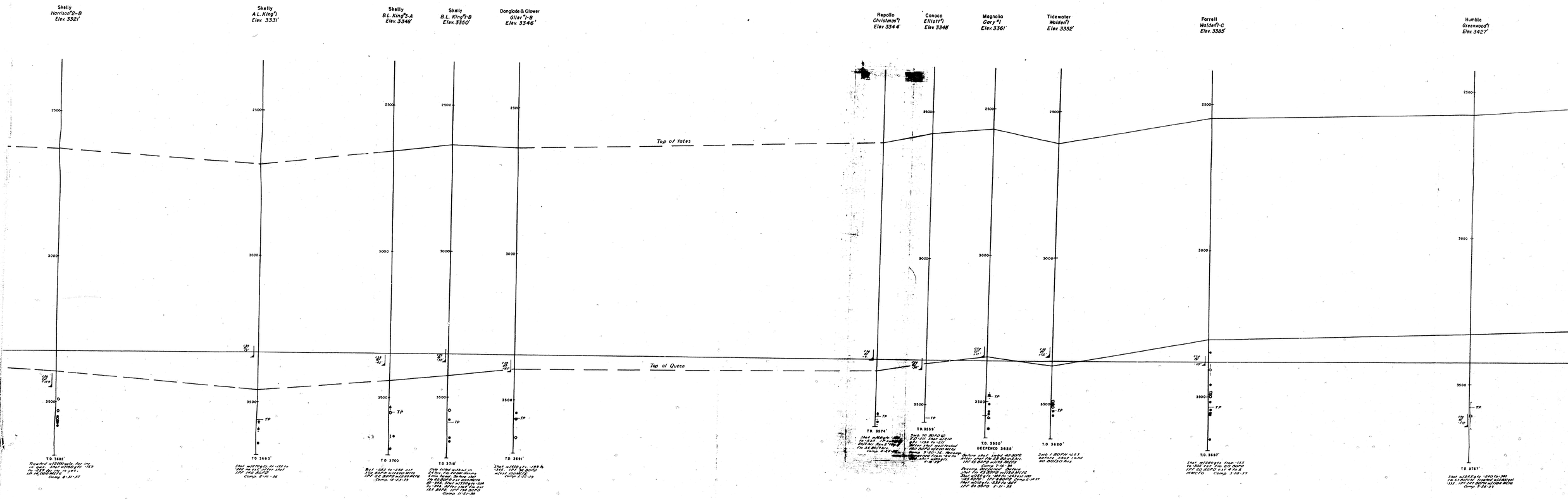
Small show gas +131
Test -245 to -328 sub dry
Water at -383
Plugged & Abandoned 6-22-2?

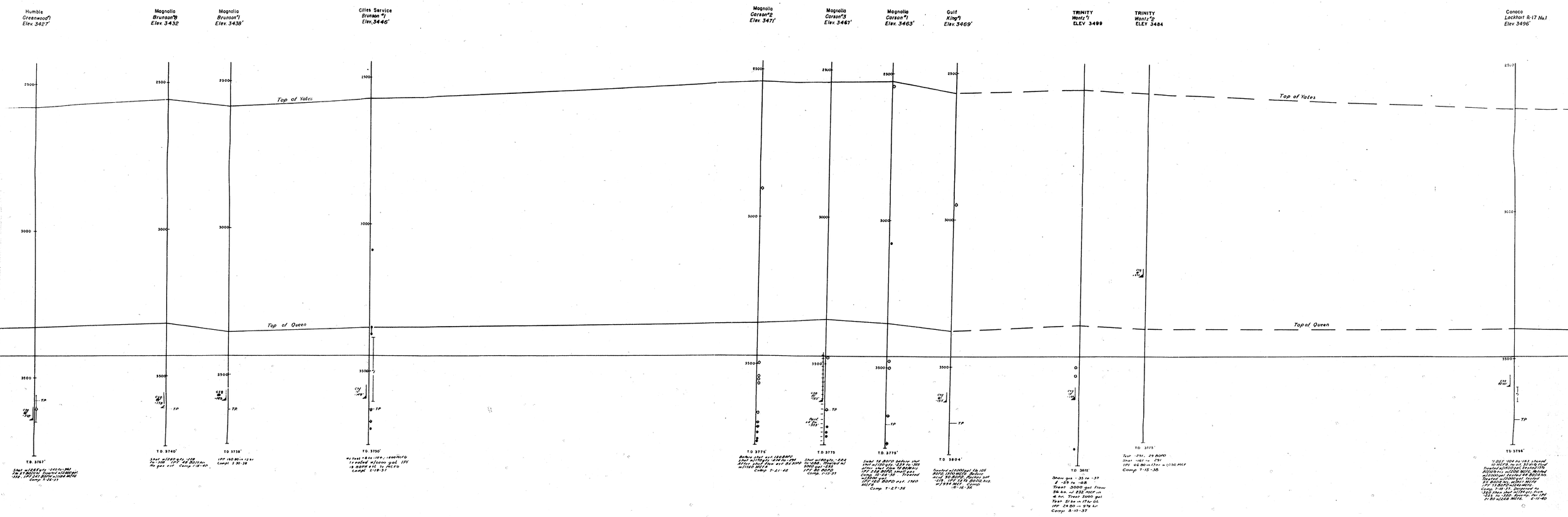
Blew out -55 est 30000 MCFGPD
Treated w/2000 gals
IPF 4158 MCFGPD
Comp 7-13-37

EXH. NO. 10


Amon G. Carter
Blinebry #2
Elev. 3252'
Gulf
La Munion #1
Elev. 3333'
Gulf
W.H. Elson #1
Elev. 3308'
Gulf
La Munion #5
Elev. 3325'
Skelly
Steeler #1
Elev. 3333'
Olsen
Cliff #2
Elev. 3323'
Skelly
Harrison #2-B
Elev. 3321'
Top of Yates
Top of Queen
2500
3000
3500
TP
TD 3536'
TD 3686'
TD 3709'
TD 3810'
PB 3768'
TD 3685'
TD 3662'

251

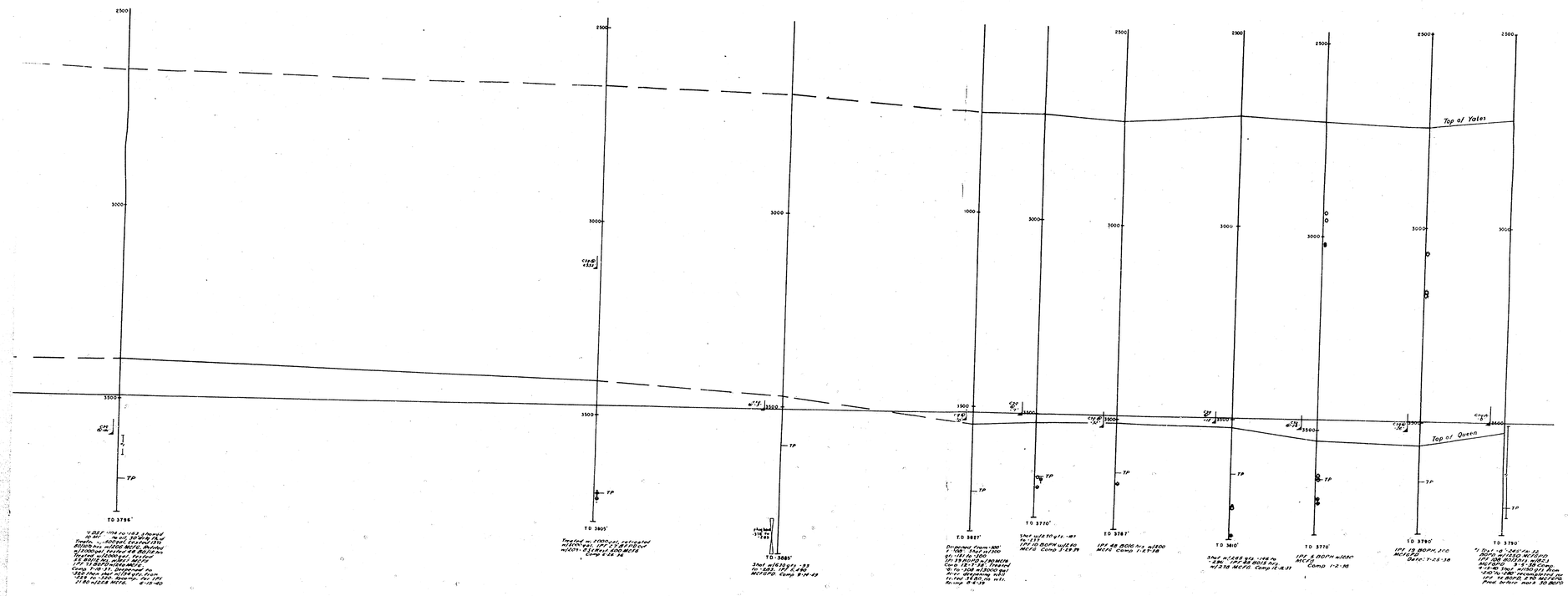

Skelly
Harrison "2-B
Elev. 3321'
Skelly
A.L. King "1
Elev. 3331'
Skelly
B.L. King "3-A
Elev. 3340'
Skelly
B.L. King "1-B
Elev. 3350'
Danglade & Glover
Giler "1-B
Elev. 3346'
Repollo
Christmas "1
Elev. 3344'
Conoco
Elliott "1
Elev. 3348'
Magnolia
Gary "1
Elev. 3361'
Tidewater
Holden "1
Elev. 3352'
Farrell
Walden "1-C
Elev. 3385'
Humble
Greenwood "1
Elev. 3427'
Top of Yates
Top of Queen
2500
3000
3500
TP
TD 3685'
TD 3685'
TD 3700
TD 3710'
TD 3691'
TD 3674'
TD 3659'
TD 3850'
GREYBURG 3825'
TD 3820'
TD 3687'
TD 3767'


Humble
Greenwood #1
Elev. 3427'
Magnolia
Brunson #3
Elev. 3432
Magnolia
Brunson #1
Elev. 3438'
Cities Service
Brunson #1
Elev. 3445'
Magnolia
Carson #2
Elev. 3471'
Magnolia
Carson #3
Elev. 3467'
Magnolia
Carson #1
Elev. 3463'
Gulf
King #1
Elev. 3469'
TRINITY
Wantz #1
ELEV 3499
TRINITY
Wantz #2
ELEV 3484
Conoco
Lockhart R-17 No.1
Elev 3496'
Top of Yates
Top of Queen
2500
3000
3500
T.D. 3767'
T.D. 3740'
T.D. 3738'
T.D. 3750'
T.D. 3775'
T.D. 3775
T.D. 3775'
T.D. 3804'
T.D. 3812'
T.D. 3775'
T.D. 3786'

253

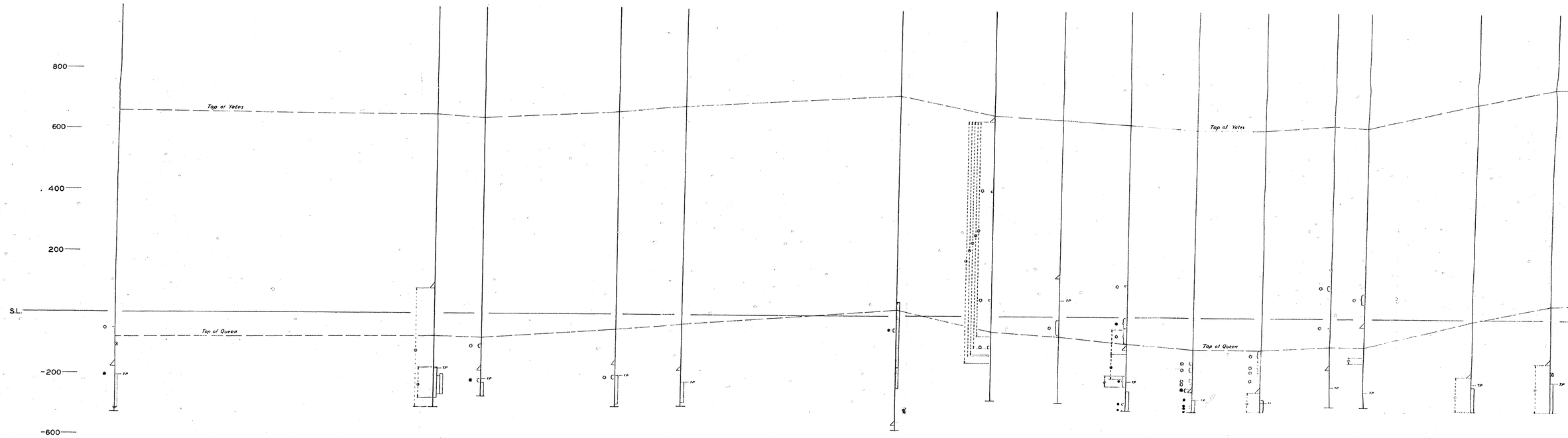
NORTH - SOUTH SECTION E-2

Scale: Vertical 1"=100'
Horizontal 1"=600'



254

EXH. NO. 19



GEO. F. GETTY
RIGGS NO. 1
ELEV. 3027

Show gas -58
Show oil & gas -211, sub 2 BOPH thru casing
Shot w/260 qts from -211 to -319
Packer at -118
IPF 75 BOPD, 100 MCFGPD
Comp. 4-12-38

CULBERTSON & IRWIN
DABBS NO. 1
ELEV. 3021

Test #1: -27 to -310, est 1000 MCFGPD, 200 ft oil in 48 hrs
Shot w/320 qts from -188 to -280
Test #2 After shot 5 BOPH est 8000 MCFGPD
Shot w/80 qts from -209 to -269
Shot w/530 qts from -202 to -269
IPF 69 BOPD
Comp 8-13-38

CULBERTSON & IRWIN
HENRY NO. 2
ELEV. 3023

Show gas -105 to -117
Show oil & gas -217 to -229
Shot w/150 qts from -230 to -272
IPF 158 BOPD
Comp 1-27-39

CULBERTSON & IRWIN
ALSTON NO. 4
ELEV. 3038

Est 3000 MCFGPD at -157
Show gas -203 to -214
Shot w/185 qts from -202 to -296
IPF 4 BOPH
Comp 6-15-38

ITALO
CARLSON B-26 NO. 1
ELEV. 3041

Shot w/260 qts from -222 to -289
IPF 4 BOPD & 100 MCFGPD
Comp 4-25-39

WESTERN GAS
S.D. WIMBERLY NO. 1
ELEV. 3090

Show oil -40 to -50
Perf csg from 165 to 235, some salt water, rainbow of oil
Perf csg from 146 to 165
IPF 2500 MCFGPD
Comp. 3-20-43

CITIES SERVICE
SIMMS-DOBBS NO. 1
ELEV. 3086

Test #1: -636 to -64 180PH
Show gas -411 to -407
Show gas -56 to -51
Show gas -97 to -105
Test #2: -636 to -105 17,000 MCFGPD
Test #3: -636 to -126 33,000 MCFGPD
Test #4: -636 to -130 37,000 MCFGPD
Test #5: -636 to -152 35,000 MCFGPD
IPF 37,000 MCFGPD
Comp 11-28-36

Show gas -111 to -160
IPF 16,250 MCFGPD
Comp 8-30-37

STANOLIND
LANGLIE NO. 3-B
ELEV. 3095

STANOLIND
LANGLIE NO. 4-B
ELEV. 3110

AMERADA
STUART NO. 2
ELEV. 3118

DST #1: -40 to -120 8300 MCFGPD
DST #2: -120 to -200
Show gas -165 to -100
Show oil & gas -2 to -35
Show gas -35 to -85
DST #3: -100 to -226 est 2000 MCFGPD & show oil
Show oil -278 to -285
Inc oil -302 to -308
Shot w/171 qts from -240 to -305
IPF 65 BO/15 hrs 50MCFGPD
Comp 9-5-36

AMERADA
STUART NO. 1
ELEV. 3115

C.B. KING
STUART NO. 1
ELEV. 3120

Show gas -152 to -177
Show gas -198 to -210
Show gas -236
Show oil & gas -210 to -242
Show oil -267
Show oil -261
Show oil -302
Show oil -305
Shot w/[illegible] from -267 to -305
IPF 156 BOPH & GOR 1175
Comp 6-10-38

TWO STATES DRLG.
STUART NO. 1
ELEV. 3121

Show gas -103 to -165
Show gas -130 to -171
Show gas -173 to -179
Show gas -203
Test #1: -241 to -309 sub 1 BOPH
Shot w/120 qts from -266 to -300
IPF 11½ BOPH & 455 MCFGPD
Comp 11-16-57

ANDERSON-PRITCHARD
LANGLIE NO. 1
ELEV. 3130

Show gas -100 to -102
Show gas -130
IPF 18 BOPH, 400 MCFGPD
Comp 11-24-37

ANDERSO
JAL NO.
ELEV. 313

Show gas -81 to -97
Test #1: -124 to -165, 3000 MCFGPD
IPF 15 BOPH, 200 MCFGPD
Comp 8-8-37

Test #1: -186 to -300 sub 2 BOPH
Shot w/280 qts from -220 to -300
IPF 4 & 80PH, GOR 1695
Comp 2-14-40

Test #1: -142 to -300
80/13 hrs
Shot w/300 qts from
IPF 168 80PD, 840 MC
packer at -177
Comp 10-16-39

255

S DRLG.
·1

ANDERSON-PRITCHARD
LANGLIE NO. 1
ELEV. 3130

ANDERSON-PRITCHARD
JAL NO. 3
ELEV. 3132

CONOCO
STATE A-2 NO. 1
ELEV. 3127

RICHMOND DRLG.
STATE NO. 4-A
ELEV. 3152

SKELLY
STATE NO. 2-L
ELEV. 3170

WESTERN GAS
STATE NO. 1-B
ELEV. 3179

PARKER
ERWIN NO. 3
ELEV. 3183

W.G. CONST. CO.
JACK B-26 NO. 1
ELEV. 3199

W.G. CONST. CO.
JACK B-26 NO. 2
ELEV. 3198

CONOCO
JACK B-26 NO. 1
ELEV. 3209

GULF
BERTHA NO. 1
ELEV. 3227

PLAINS
LILLIE KNIGHT NO. 2
ELEV. 3214

PLAINS
HUMBLE-KNIGHT NO. 1
ELEV. 3222

PLAINS
J.A. KNIGHT NO. 5
ELEV. 3232

W.G. CONST. CO.
JACK B-15 NO. 2
ELEV. 3250

W.G. CONST. CO.
E.E. JACK B-15 N
ELEV. 3250

Top of Yates

Top of Queen

7
3000
EFGPD

Test #1: -186 to -300 sult 2 BOPH
Shot w/280 qts from -220 to -300
IPF 4.74 BOPH GOR 1650
Comp 2-14-40

Test #1 -142 to -300 Flow 23 BO/13 hrs
Shot w/300 qts from -202 to -300
IPF 168 BOPD 840 MCFGPD below packer at -177
Comp. 10-16-39

Treated w/11000 gals
Shot w/460 qts
IPF 3420 MCFGPD
Comp 9-16-39

Show oil -52
Show gas -17 est 2000 MCFGPD
Increase gas -108 to -113
Show oil -183 to -189
Show oil -201 to -208
Show oil -213
Test #1: -129 to -272 Flow 85 BOPD
Shot w/180 qts from -178 to -218
IPF 186 BO/12 hrs 974 MCFGPD
Comp 9-28-39

Show gas -8 est 1000 MCFGPD
Inc. gas -86 to -95 est 3000 MCFGPD
Show gas -128
Slt. show oil -184 to -188
Test #1: -106 to -150 4700 MCF sweet gas/day
Solid gas at -175
IPF 168 BOPD beneath packer at -207
Comp 1-20-40

Slt show gas -289
Show gas -1 to -6
Show gas -261 to -36 est 1000 MCFGPD
Blow out -61
Slt show oil -207 to -210
Test #1: 21 to -260 Flow 12780 MCFGPD
Shot 140 qts from -204 to -236
Set packer at -193
IPF 12,000 MCFGPD below packer
Comp 3-26-40

Slt show gas -803 to 795
Show gas -42 to -47
Show gas -68 to -87 est 250 MCFGPD
Show gas -96 to 100
Show gas -100
Show gas -203 to 209
Inc gas -217 to -222
Inc gas -271
Shot w/140 qts from -200 to -232
Set packer at -179
IPF 27 BO/6 hrs
Comp. 2-14-39

Test #1: -76 to -326 Flow 1050 MCFGPD, no oil
IPF 2000 MCFGPD
Shot w/320 qts. -111 to -271
Comp 2-2-40

Shot from -132 to -252 w/305 qts

Test #1: -40 to -204 Flow 3120 MCFGPD
Test #2: -40 to -253 Flow 6510 MCFGPD
IPF 5786 MCFGPD
Comp 1-28-48

Show gas -60
Inc gas -69
Inc gas -72 to -88
Test #1: -2 to -88 Flow 1800 MCFGPD
Inc gas -101 to -105
Show gas -111 to -114
Inc gas -115
Inc gas -135 to -141
Inc gas -159
Show oil -165
Inc gas -293 to -308
Inc gas -233 to 238
Test #2: -2 to -373 Flow 12 gal fluid/hr
5% water 950 MCFGPD
Treated w/1000 gals; 3146 MCFGPD; no fluid
IPF 3146 MCFGPD, no fluid
Comp 6-26-40

At -34 how 14,200 MCF gas
Test #1: -130 to -303 Flow est 30 BOPD
Set packer at -284
Treated w/tent at of 1500 gals
IPF 174 BOPH w/350 MCFGPD
Comp 7-20-42

Show gas -10
Show gas -6
Shot w/240 qts from -176 to -236
IPF 120 BOPD
Comp 9-16-43

Shot w/ 320 qts from -171 to -267
IPF 141 BOPD
Comp 11-20-43

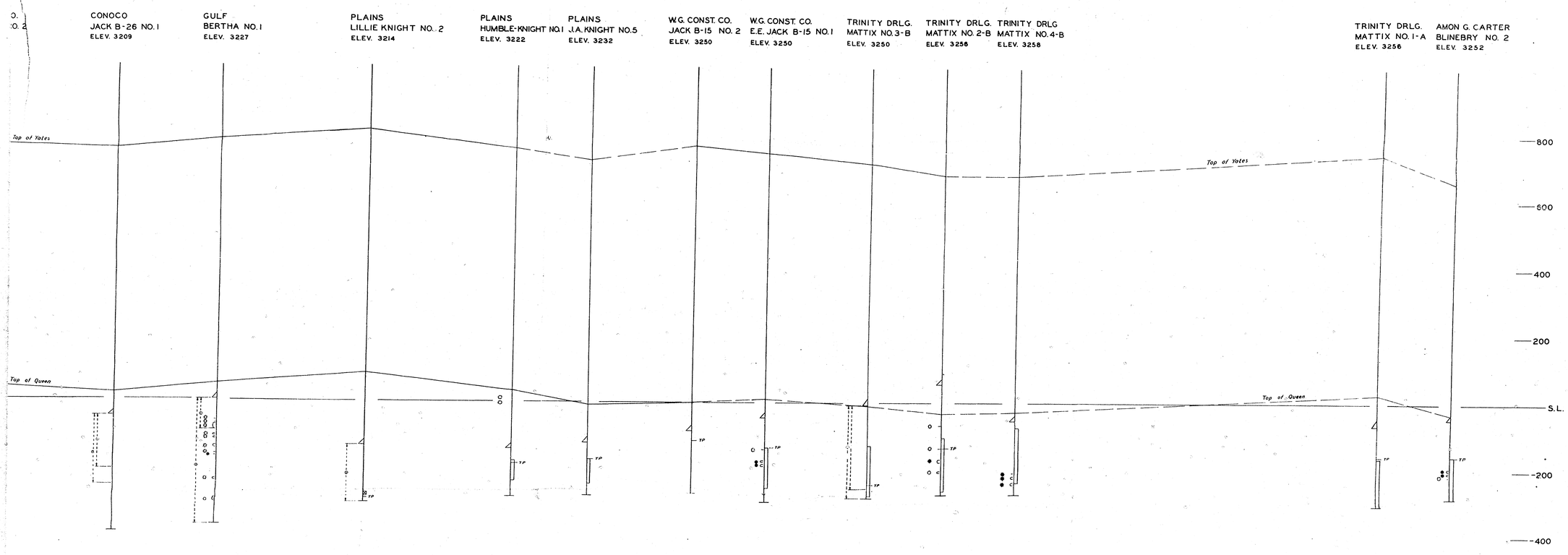
IPF 168 BOPD
GOR 8650 after shot
Comp 3-17-49

Show gas -159
Show oil -172 to -176
Show oil -184 to -190
Shot w/190 qts from -154 to -2
IPF 80 BOPD
Comp 2-2-49

256

NORTH-SOUTH SECTION E-3

Scale: Vertical 1" = 100'
Horizontal 1" = 600'



w/505 qts

Test #1: -40 to -204
Flow 3120 MCFGPD
Test #2: -49 to -253
Flow 6510 MCFGPD
IPF 3786 MCFGPD
Comp 1-28-48

Show gas -60
Inc gas -69
Inc gas -72 to -88
Test #1: -2 to -88 Flow 1800 MCFGPD
Inc gas -101 to -105
Show gas -111 to -114
Inc gas -115
Inc gas -155 to -141
Inc gas -159
Show oil -165
Inc gas -293 to -308
Inc gas -233 to 238
Test #2: -2 to -373 Flow 12 gal fluid/hr
2/3 water 950 MCFGPD
Treated w/1000 gals; 3146 MCFGPD, no fluid
IPF 3146 MCFGPD, no fluid
Comp 6-26-40

At -54 had 14,200 MCF gas
Test #1: -150 to -303 Flow est 50 BOPD
Set packer at -284
Treated w/total at 1500 gals
IPF 1½ BOPH w/350 MCFGPD
Comp 7-20-42

Show gas -10
Show gas -6
Shot w/240 qts from -176 to -236
IPF 120 BOPD
Comp 9-14-43

Shot w/520 qts from -171 to -247
IPF 141 BOPD
Comp 11-20-43

IPF 168 BOPD
GOR 8660 after shot
Comp 3-17-49

Show gas -139
Show oil -172 to -176
Show oil -184 to -190
Shot w/590 qts from -154 to -264
IPF 80 BOPD
Comp 2-2-40

Test #1: -9 to -256 Flow ½ BOPH
w/500 MCFGPD
Test #2: -9 to -287 Flow 26 BOPD
w/162 MCFGPD
Shot w/500 qts from -120 to -280
IPF 150 BOPD
Comp 12-1-40

Show gas -69
Show gas -136
Show oil & gas -169
to -178
Inc gas -204 to -209
Shot w/600 qts from
-104 to -264
IPF 6 BOPH
Comp 7-28-40

Show oil & gas -208
Show oil & gas -219 to -224
Show oil & gas -257 to -242
Shot w/240 qts from -73 to -239
IPF 148 BOPD
Comp 5-7-41

Shot from -163 to -308
w/470 qts
IPF 48 BOPD
Comp 10-22-50

Show oil -193 to -198
Show oil -205 to -209
Show gas -218
Shot w/520 qts from -158 to -284
IPF 165 BOPD
Comp 5-16-50

257

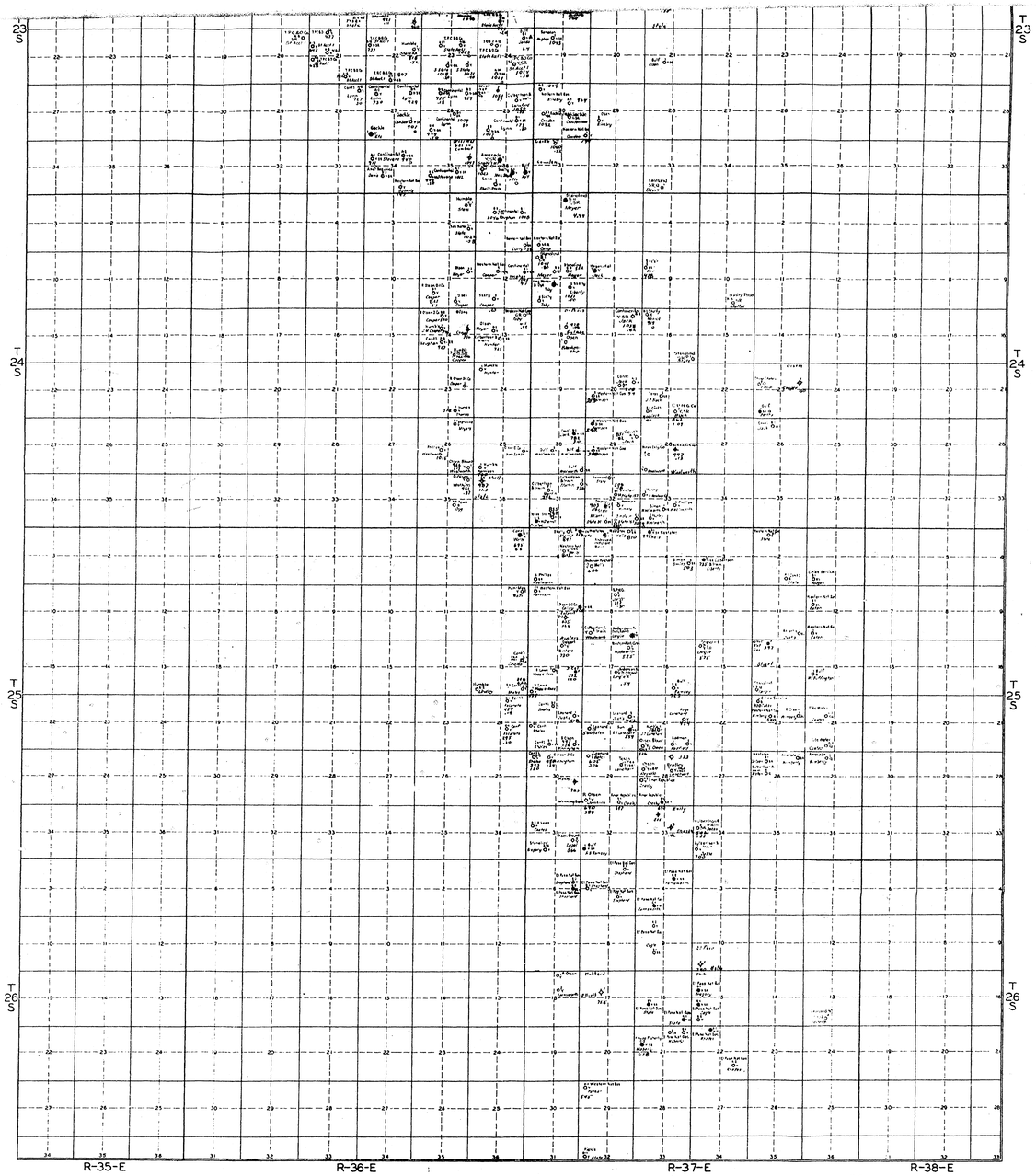
EXH. NO. 20

R-36-E
R-37-E
R-38-E
R-39-E
T 17 S
T 18 S
T 19 S
T 20 S
T 21 S
R-35-E

R-35-E R-36-E R-37-E R-38-E R-39-E

T 21 S
T 22 S
T 23 S
T 24 S
T 25 S

260



INDEX TO PRODUCING FORMATIONS

Y.....Yates
SR.....Seven Rivers
Q.....Queen
K.....Knight
BW.....Bowers
BY.....Byers
SA.....San Andres
BP.....Basal Permian
G.....Gregburg
GL.....Glorieta
SIM.....Simpson

DRY GAS PRODUCTIVE WELLS
LEA COUNTY, NEW MEXICO
SCALE: 1" = 4000'

LEGEND

Amerada
Dry Gas Well
Pressure
Sulphur Content
State

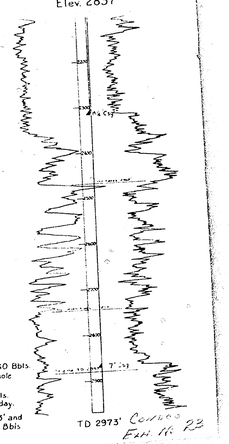
Amerada
Bradenhead Well
State

Amerada
Dual Completion
State

EXH. NO. 21

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Continental Exhibit No. 24
CASE 673
Dec. 54

Continental Oil Company
Ida Hendricks No. 1
Sec. 33, Blk. 26, PSL Surv., Winkler Co., Tex.
Elev. 2837'



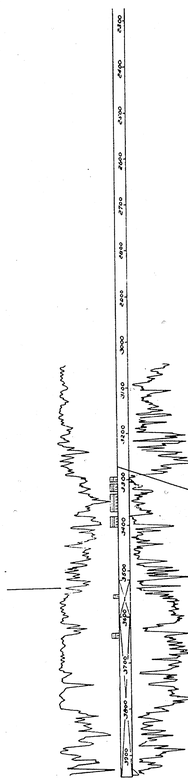
Comp. 5-8-29 @ 2880' TD, IP 240 Bbls oil / hr., no water, from open hole 2316 - 2880'.
In October, 1930, tested 30 Bbls. oil and 1500 Bbls. water per day.
On 10-25-30, deepened to 2973' and 7" casing set @ 2870', for 300 Bbls oil, no water, per day.

Cont'l Exh. #. 23

261

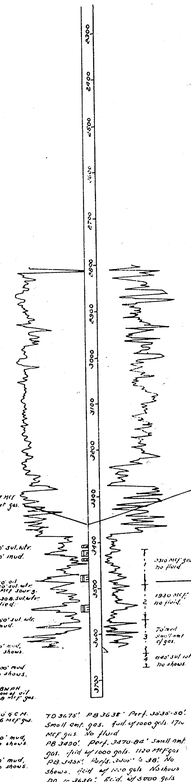
COMPARISON OF WELL LOGS

Cont'l et al
Meyer A-29 No. 4
El: 3536'



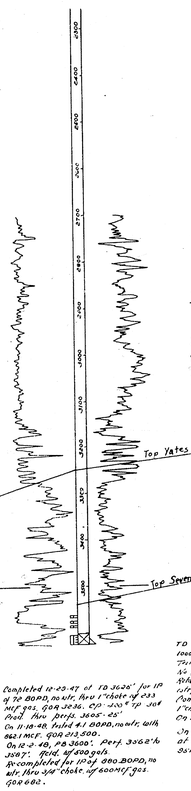
Completed 3-27-43 at TD 3540' for IP of 314 BOPD + 36 BWPD thru 1" choke of 420 MCF gas, GOR: 1198 Pool: New perfs. 3436-98', Jalmat Gas. Cp. 4767'. Baker recreate & fl valves installed 12-2-43
On 3-3-53 tested 6.76 BOPD + 60.6 BWPD. S.I. Gas-oil ratio: 98.
PB 3600': Perfs 3520-30'. Dry, frac of 500 gals Pool declined to 1 BOPD + 28 BWPD & S.I.
PB 3500': Perfs. 3494' & 3502'. After 2000 gals. acid, & 6000 gals. sonfrac, tested 4162 MCF gas, SIP 975#. 2 pairs

Cont'l et al
State A-32 No. 4
El: 3490'



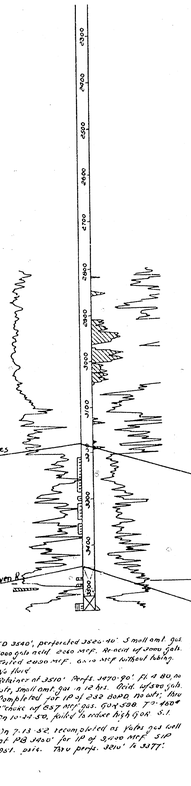
TD 3675'. PB 3638'. Perf. 3535-36'. Small amt. gas. Fell to 1000 MCF gas. No fluid.
PB 3490': Perf. 3470-84'. Small amt. gas. Frac of 1000 gals. 1150 MCF gas
PB 3450': Perfs. show 5 ft. of oil. No shows. Frac of 1000 gals. No shows
PB 3410': Perfs. 3410'-20' & 3433-84'. Frac of 1000 gals. No shows. Gas 537 MCF gas, no fluid.
PB & Prepared to TD 3727'.
Completed for IP of 1300 BOPD, no water, thru 1" choke of 516 MCF gas. GOR 331. C.P. 400# T.P. 50#

Cont'l et al
State A-32 No. 5
El: 3499'



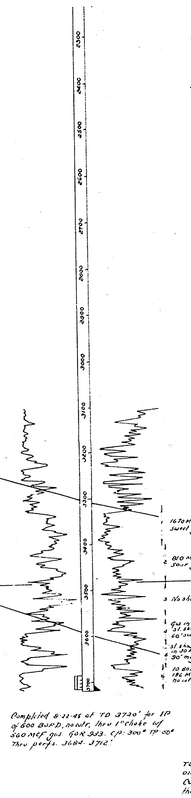
Completed 12-29-47 at TD 3626' for IP of 70 BOPD, no wtr, thru 1" choke of 233 MCF gas, GOR 3286. CP. 450# TP 30#
Pool: New perfs. 3625'-45'
On 11-18-48, failed 41 BOPD, no wtr, with 862.1 MCF. GOR 212:500.
On 12-2-48, PB 3600': Perf. 3562'-84', 3597'. Yield of 500 gals for completed for 102 of 800 BOPD, no wtr. thru 3/4" choke of 800 MCF gas. GOR 882.

Cont'l et al
State A-32 No. 3
El: 3478'



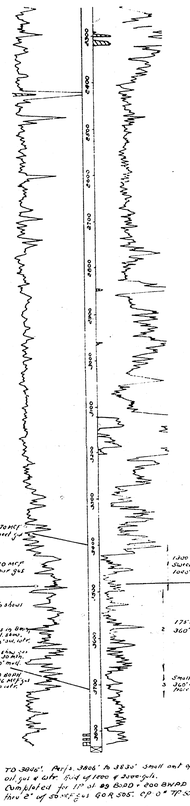
TD 3640', perforated 3600-40'. Small amt gas 1000 gals acid. 6000 MCF. No wtr of 3000 gals. Tested 6000 MCF. 6000 MCF without fluid.
No flow
Shutin at 3270'. Perfs. 3270-90'. Fl. to 80', no wtr, small amt gas. in 24 hrs. Swb. of 2500 gals.
Completed for IP of 250 BOPD, no wtr, thru 1" choke of 687 MCF gas. GOR 2738. TP: 600#
On 10-10-50, failed to under 5 BOPD. S.I.
On 7-13-52 recompleted as Yates gas well at PB 3450' for IP of 3,000 MCF. SIP 950#. Perfs. 3270' to 3377'.

Cont'l et al
Farney A-5 No. 4
El: 3485'



Completed 6-22-45 at TD 3730' for IP of 600 BOPD, no wtr, thru 1" choke of 340 MCF gas. GOR 333. C.P. 300# T.P. 50#
Thru perfs. 3684-3716'.

Trebol
Federal No. 1
El: 3485'



TD 3806'. Perfs. 3805' & 3830'. Small amt of oil, gas & wtr. Swb of 1000 & 2000 gals.
Completed for IP of 83 BOPD + 900 BWPD thru 2" of 65 MCF gas. GOR 385. CP 0 TP 50#

EXH. NO. 24

STATE J-2 LEASE

WELL NO. 11
ELEV. 3572'

WELL NO. 8
ELEV. 3554'

WELL NO. 9
ELEV. 3559'

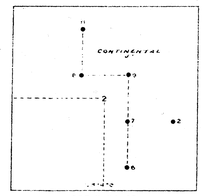
WELL NO. 7
ELEV. 3531'

WELL NO. 6
ELEV. 3530'

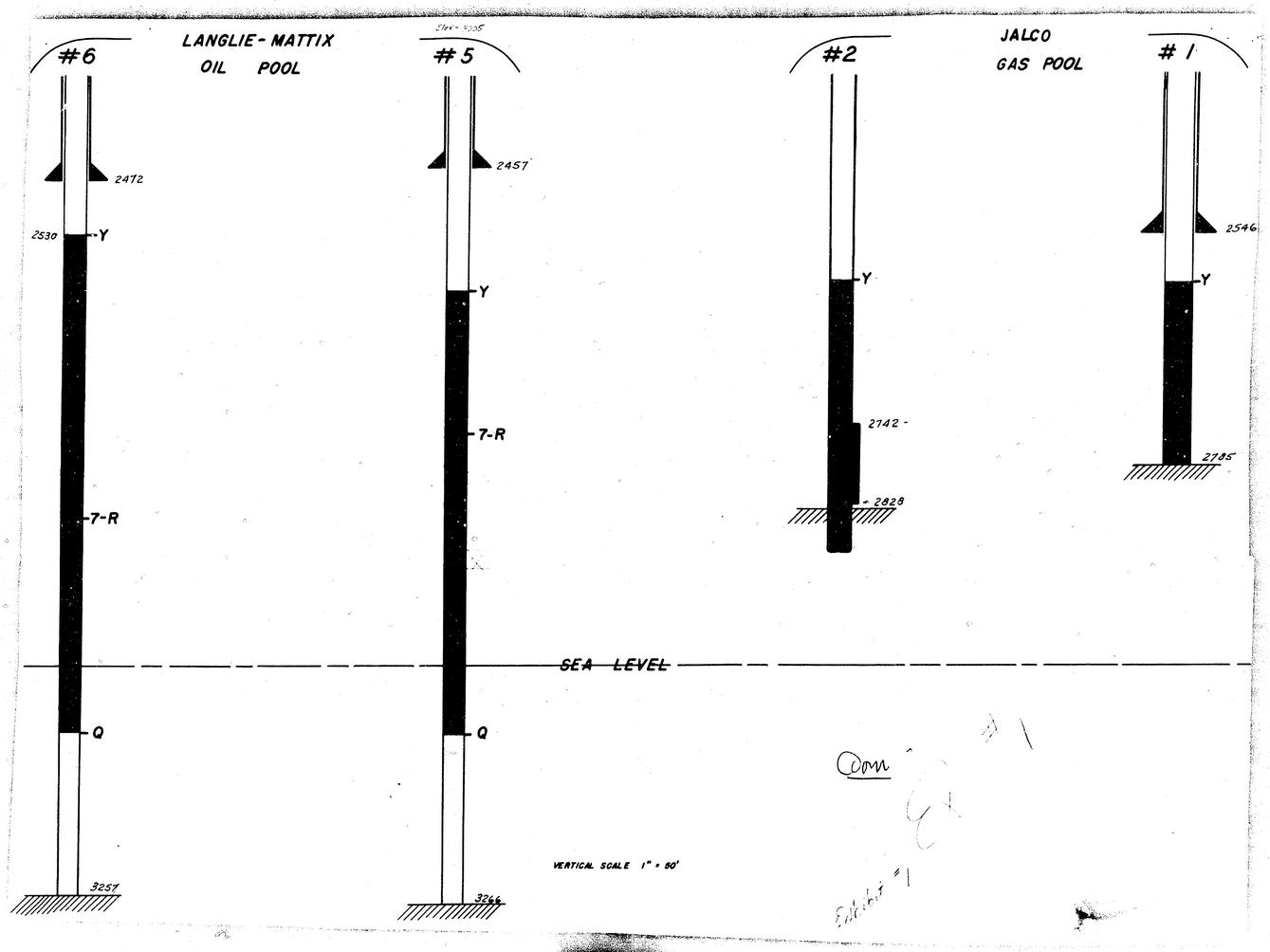
WELL NO. 2
ELEV. 3539'

+300'
+200'
+100'
SEA LEVEL
-100'
-200'
-300'

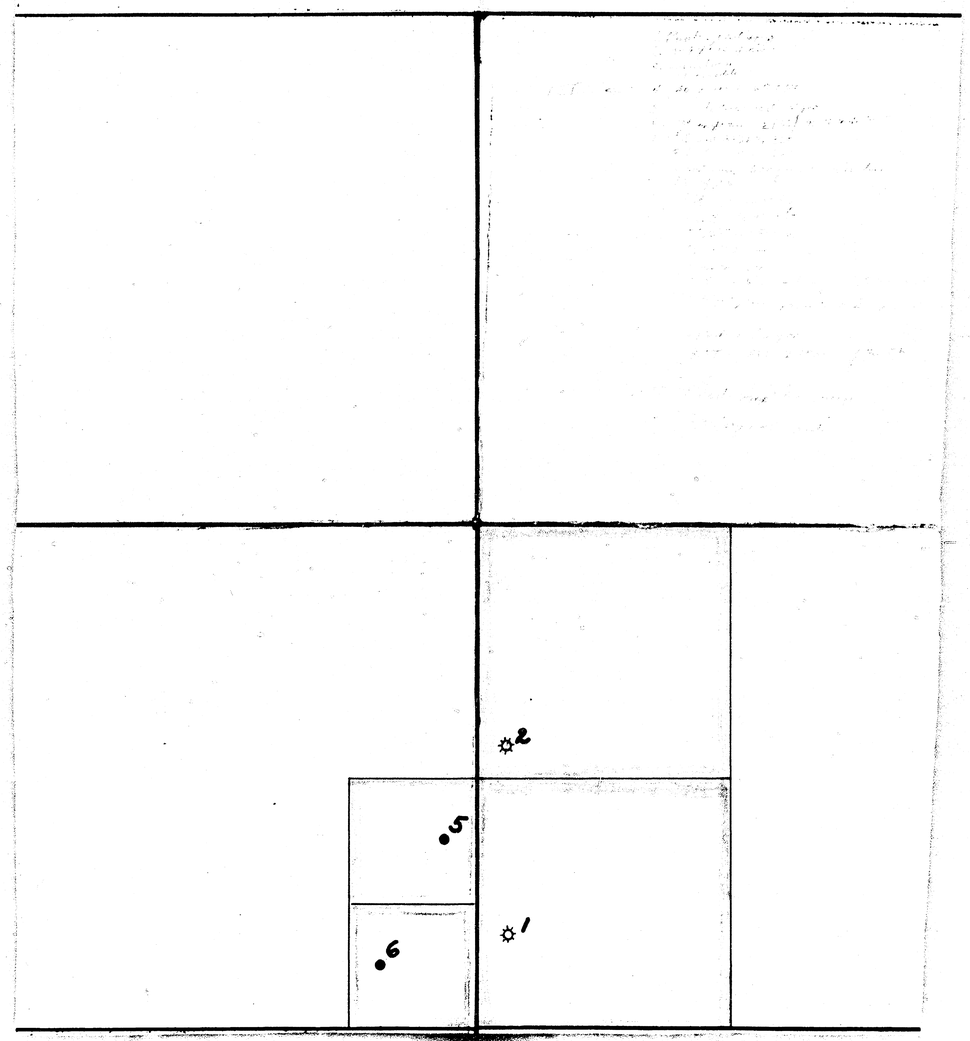
CASING WINDOW



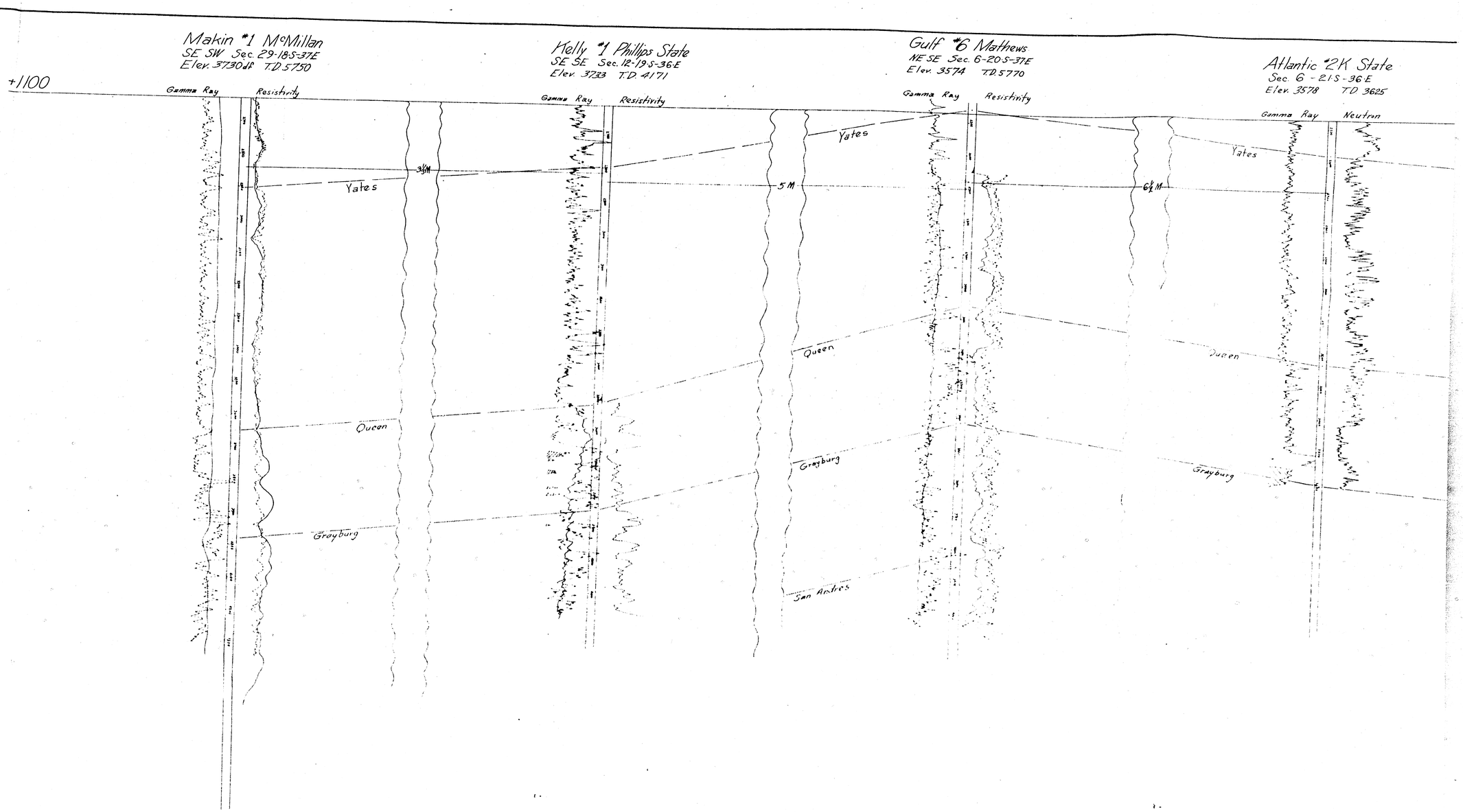
EXH. NO. 22

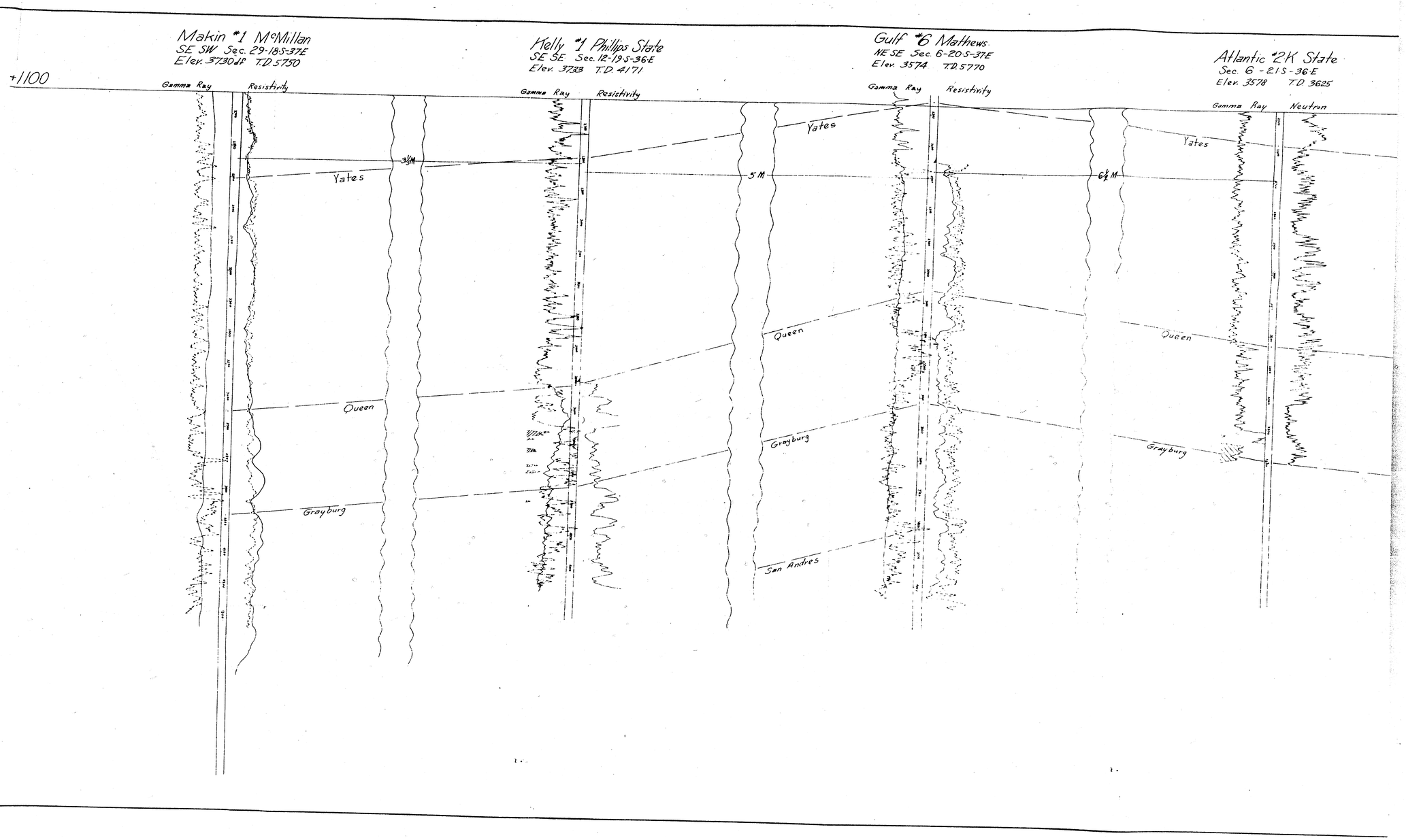

LANGLIE-MATTIX
OIL POOL
#6
2472
2530
Y
7-R
Q
3257
#5
2457
Y
7-R
Q
3266
SEA LEVEL
VERTICAL SCALE 1" = 50'
#2
Y
2742
2828
JALCO
GAS POOL
#1
2546
Y
2745

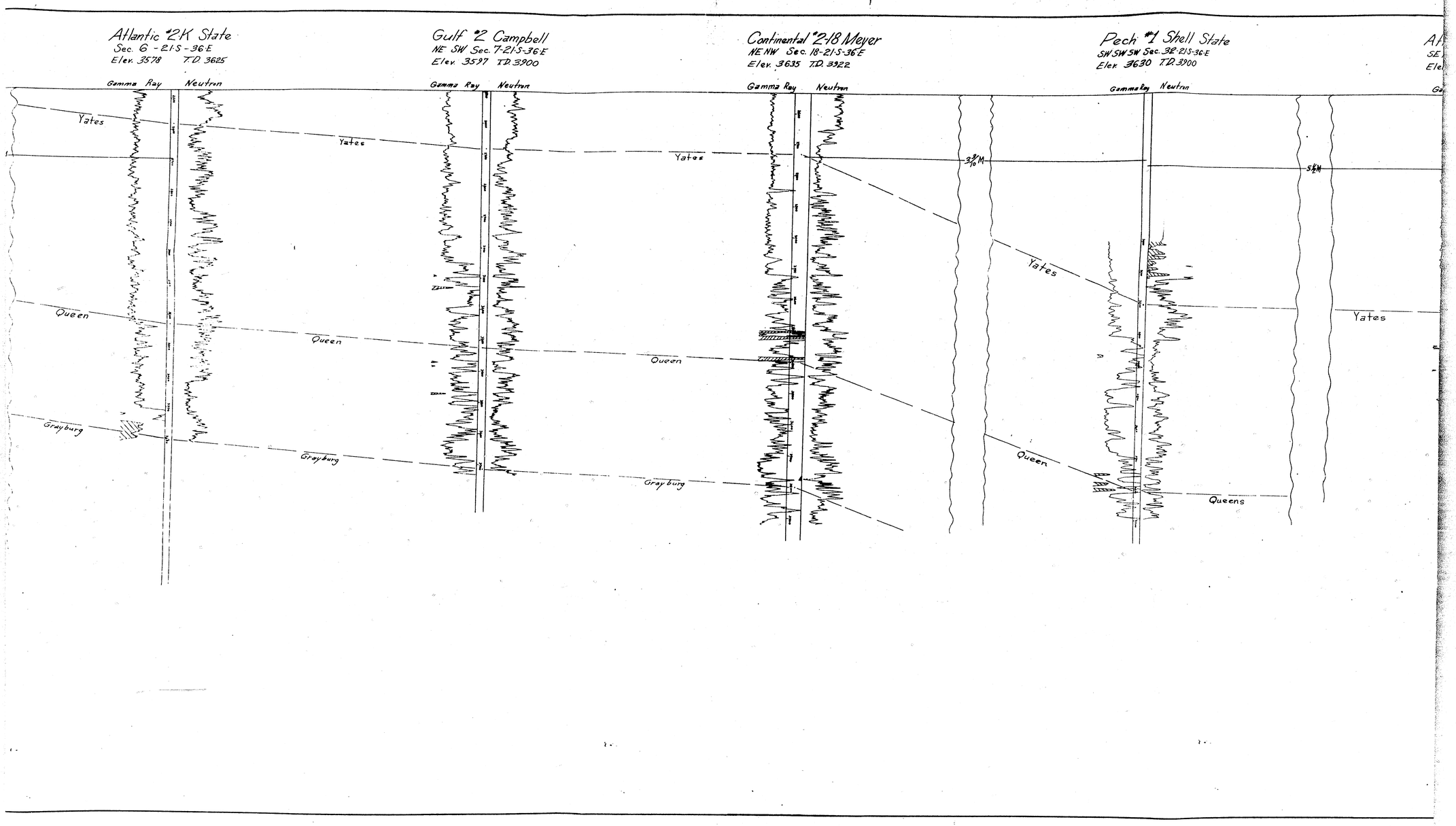
263



264


Makin #1 McMillan
SE SW Sec. 29-18S-37E
Elev. 3730df T.D. 5750
+1100
Gamma Ray
Resistivity
3½M
Yates
Queen
Grayburg
Kelly #1 Phillips State
SE SE Sec. 12-19S-36E
Elev. 3733 T.D. 4171
Gamma Ray
Resistivity
5M
Yates
Queen
Grayburg
San Andres
Gulf #6 Matthews
NE SE Sec. 6-20S-37E
Elev. 3574 T.D. 5770
Gamma Ray
Resistivity
6½M
Yates
Queen
Grayburg
Atlantic #2K State
Sec. 6 - 21S - 36E
Elev. 3578 T.D. 3625
Gamma Ray
Neutron
Yates
Queen
Grayburg


Makin #1 McMillan
SE SW Sec. 29-18S-37E
Elev. 3730df T.D. 5750
Kelly #1 Phillips State
SE SE Sec. 12-19S-36E
Elev. 3733 T.D. 4171
Gulf #6 Mathews
NE SE Sec. 6-20S-37E
Elev. 3574 T.D. 5770
Atlantic #2K State
Sec. 6 - 21S - 36E
Elev. 3578 T.D. 3625
+1100
Gamma Ray
Resistivity
Neutron
3½M
5M
6½M
Yates
Queen
Grayburg
San Andres


Atlantic #2K State
Sec. 6 - 21-S - 36-E
Elev. 3578 T.D. 3625
Gamma Ray
Neutron
Gulf #2 Campbell
NE SW Sec. 7-21-S-36-E
Elev. 3597 T.D. 3900
Gamma Ray
Neutron
Continental #2-18 Meyer
NE NW Sec. 18-21-S-36-E
Elev. 3635 T.D. 3922
Gamma Ray
Neutron
Pech #1 Shell State
SW SW SW Sec. 32-21-S-36-E
Elev. 3630 T.D. 3900
Gamma Ray
Neutron
Yates
Yates
Yates
Yates
Yates
Queen
Queen
Queen
Queen
Grayburg
Grayburg
Grayburg
Queens

'Shell State
'2-21S-36-E
D. 3900

utron

Atlantic #1 Selby
SE NW Sec. 33-22S-36E
Elev. 3493 T.D. 3395

Gamma Ray | Neutron

Greenbriar #1 Stephens
NW NW Sec. 34-23S-36E
Elev. 3405 est. T.D. 7310

Gamma Ray | Resistivity

Stanolind #1-B Meyer
NW NE Sec. 26-24S-36E
Elev. 3920 T.D. 3402

Gamma Ray | Neutron

Moss #1 Sholes
NE NE NE Sec. 31-25
Elev. 3014 T.D. 3231

Gamma Ray | Neutron

5¼M

5.7M

5.2M

7.2M

Yates

Yates

Yates

Yates

Queens

Queens

Queen

Stanolind #1-B Meyer
NW NE Sec. 26-24S-36E
Elev. 3320 T.D. 3402

Moss #1 Sholes
NE NE Sec. 31-25S-37E
Elev. 3014 T.D. 3230

Continental #2 B10 Eaves
NW SE Sec. 30-26S-37E
Elev. 2946 T.D. 3210

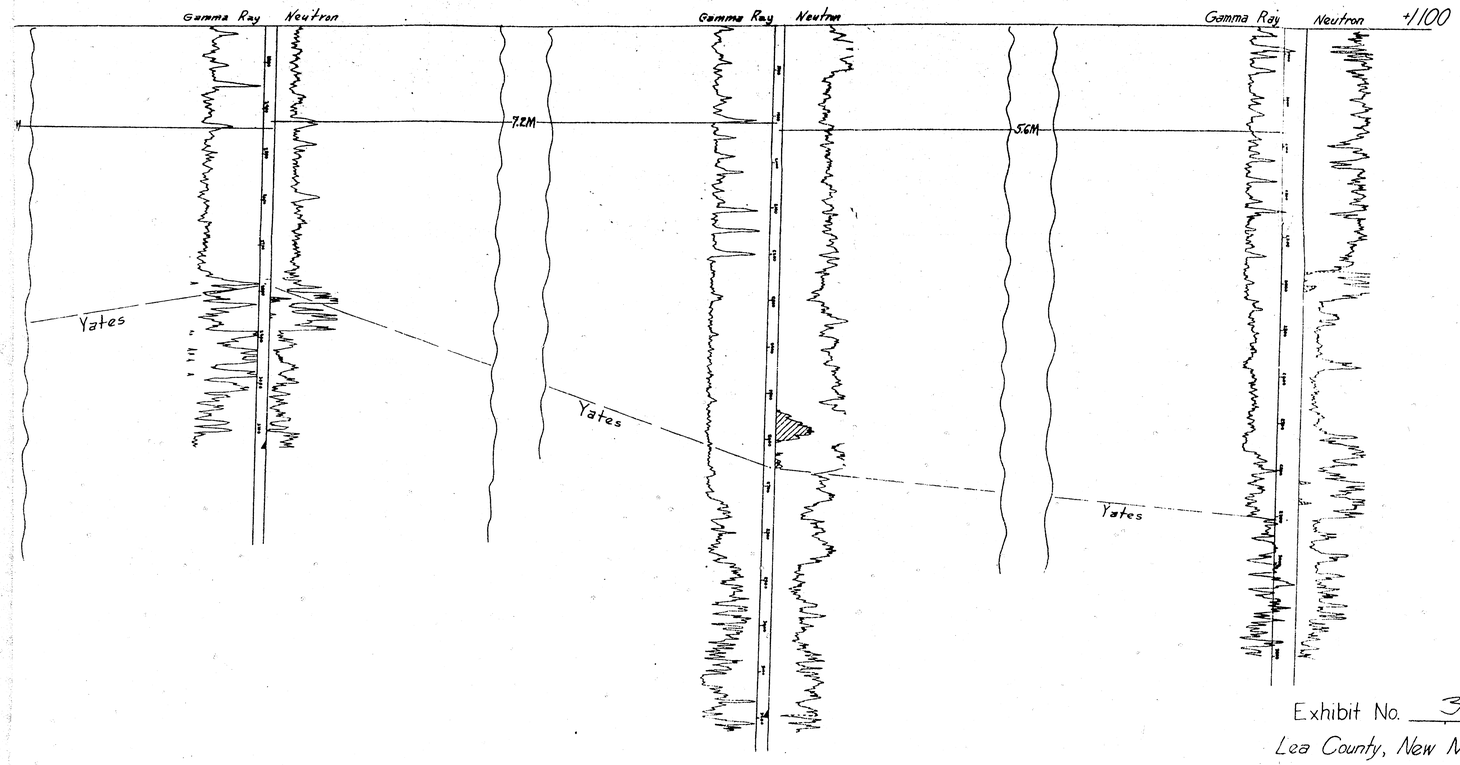


Exhibit No. 3
Lea County, New Mexico
NORTH-SOUTH CROSS SECTION
Horizontal Scale: 1000'
Vertical Scale: 100'

Exhibit #3 Base map showing;
1. Outline of oil & gas pools
2. SIP
3. H_2S content

Exhibit	13A	Cross section	W to E	T19S
	13B	"	"	T20S
	13C	"	"	T21S
	13D	"	"	T21S
	13E	"	"	T22S
	13F	"	"	T23S
	13G	"	"	T24S
	13H	"	"	T.25S

Exhibit	14A	Cross section	N-S
	14B	"	"
	14C	"	"
	14D	"	"
	14E	"	"
	14F	"	"
	14G	"	"

(These exhibits are in Hobbs)

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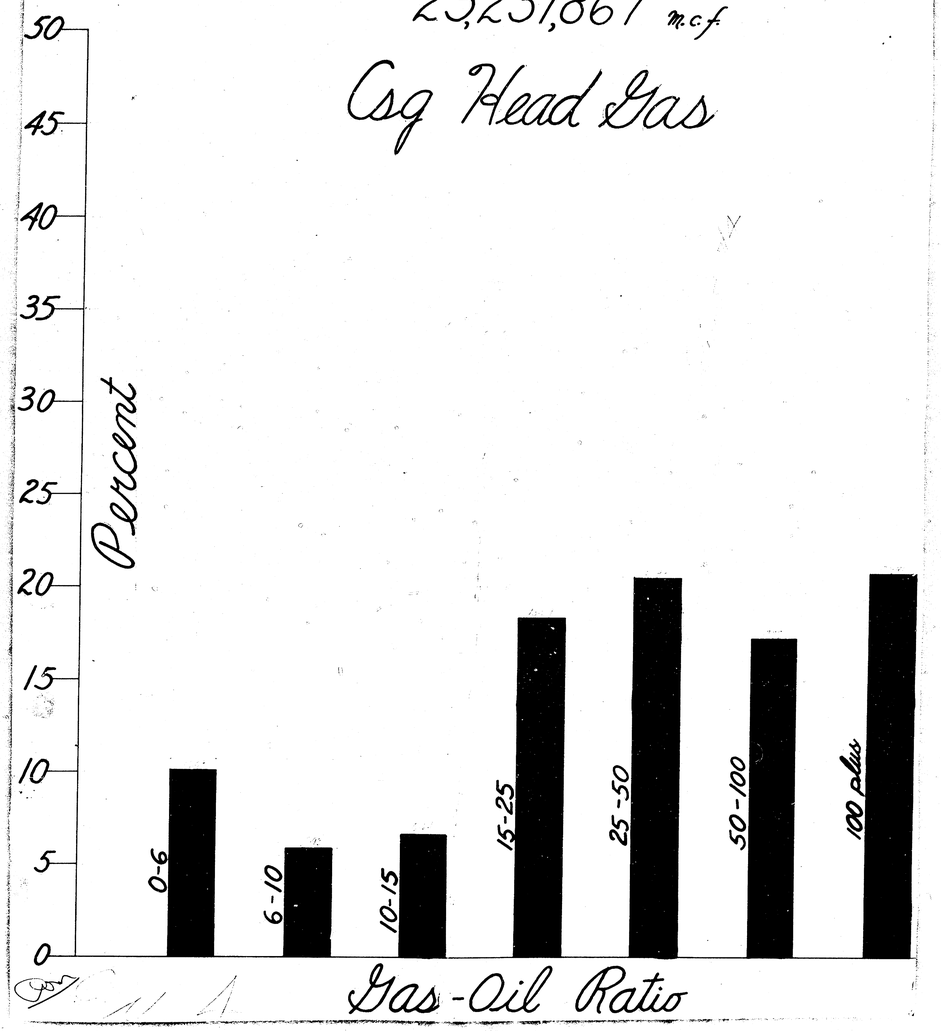
Langlie Mattix

1953

25,251,867 m.c.f.

Csg Head Gas

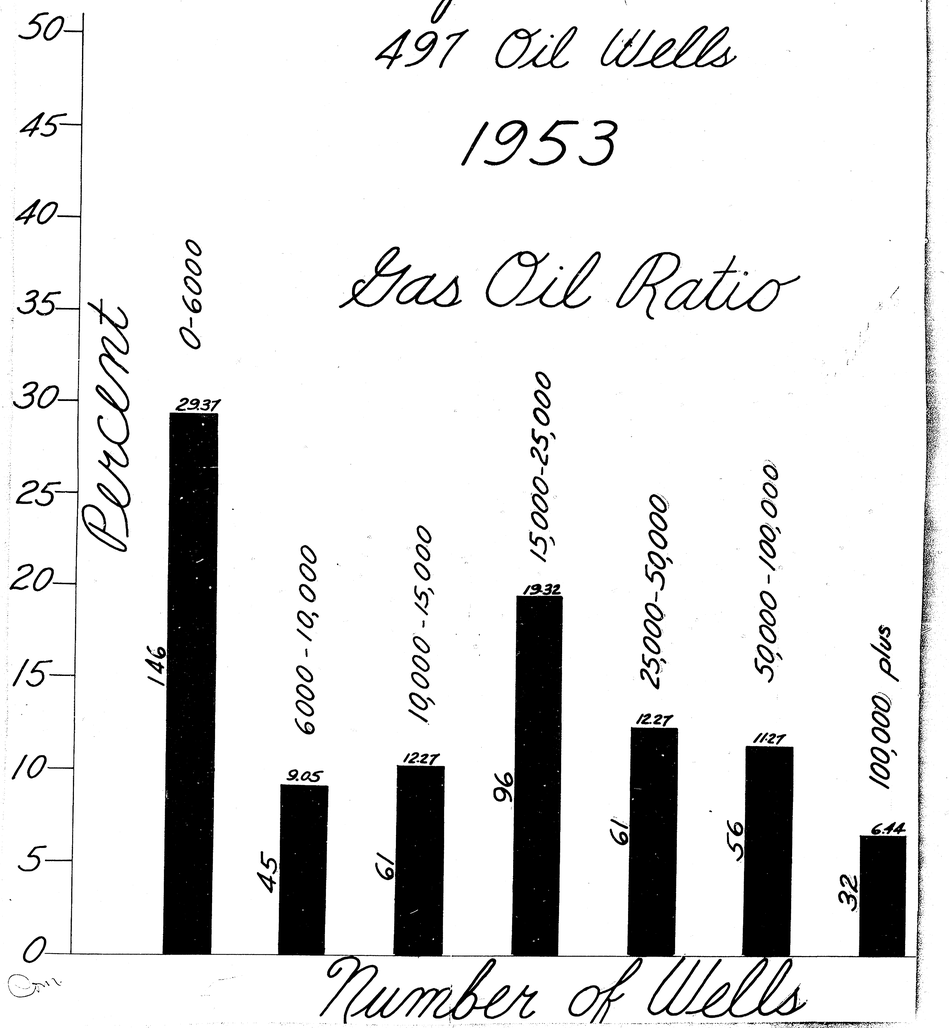


Langlie-Mattix

497 Oil Wells

1953

Gas Oil Ratio



270

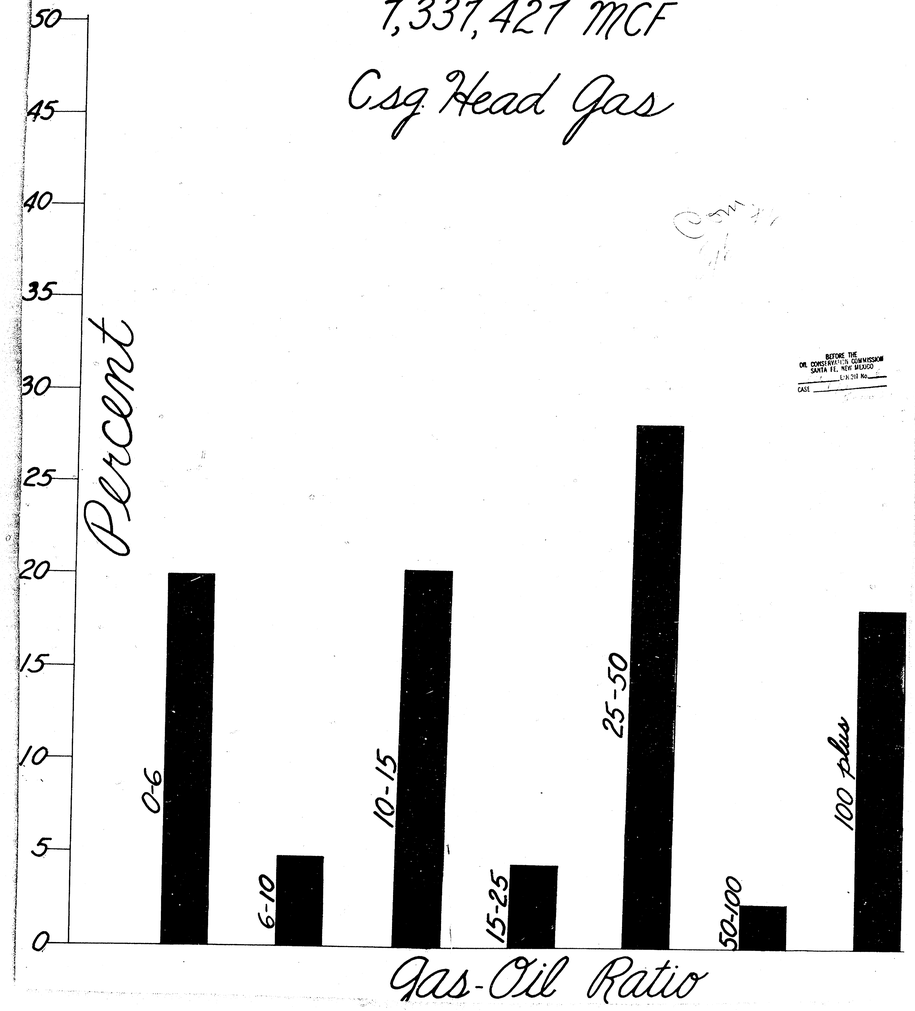
Cooper Jal

1953

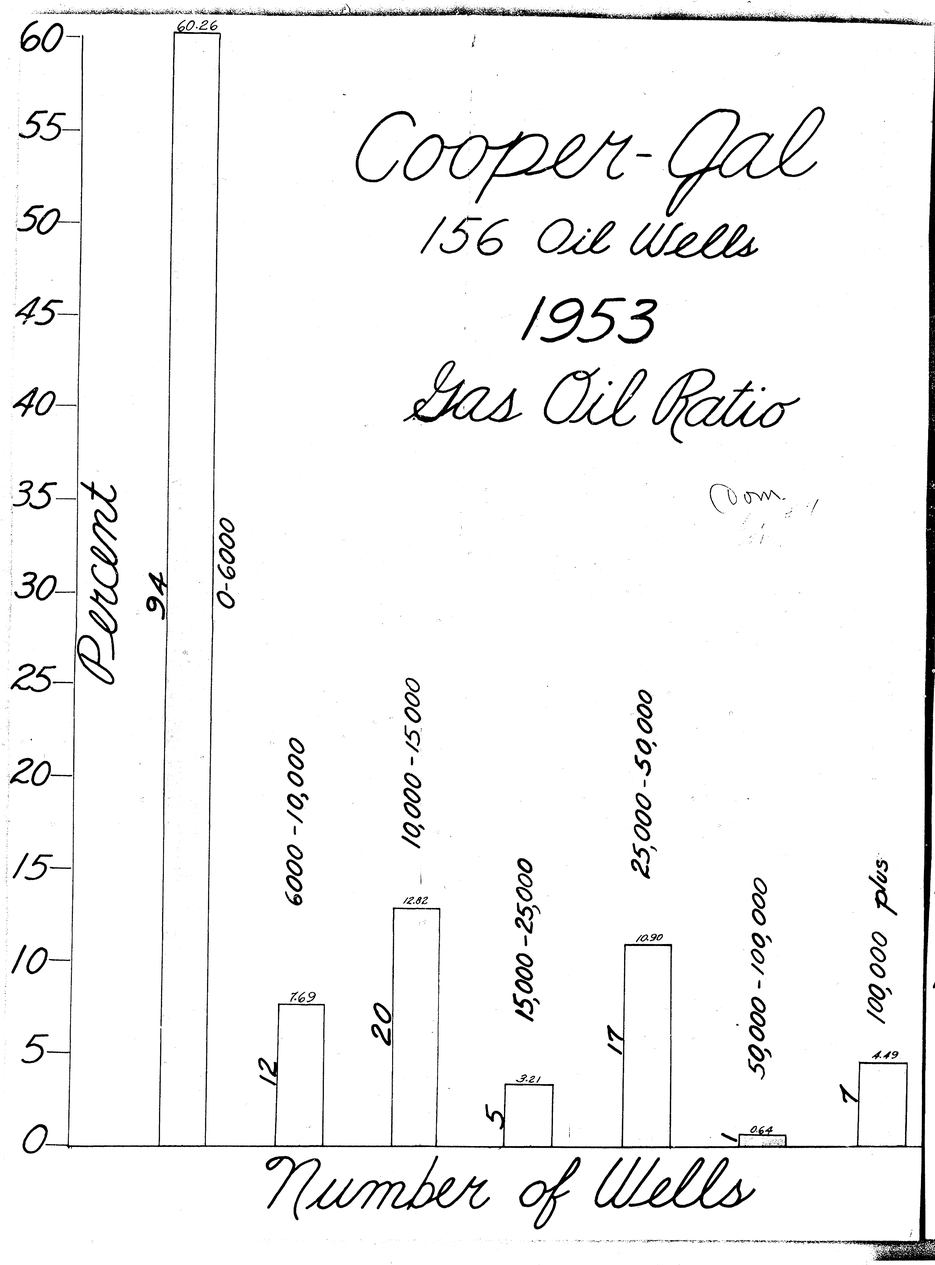
7,337,427 MCF

Csg. Head Gas

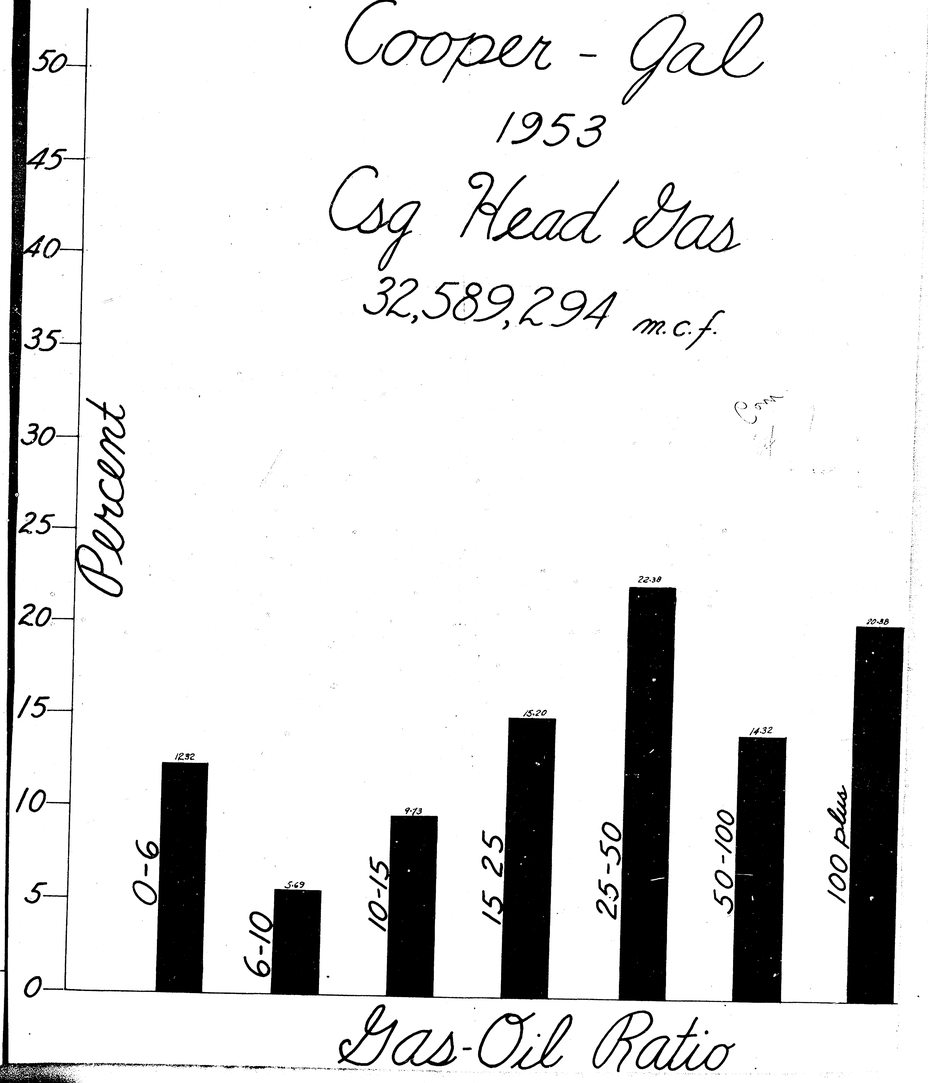
BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EX. NO.
CASE



Cooper-Gal
156 Oil Wells
1953
Gas Oil Ratio

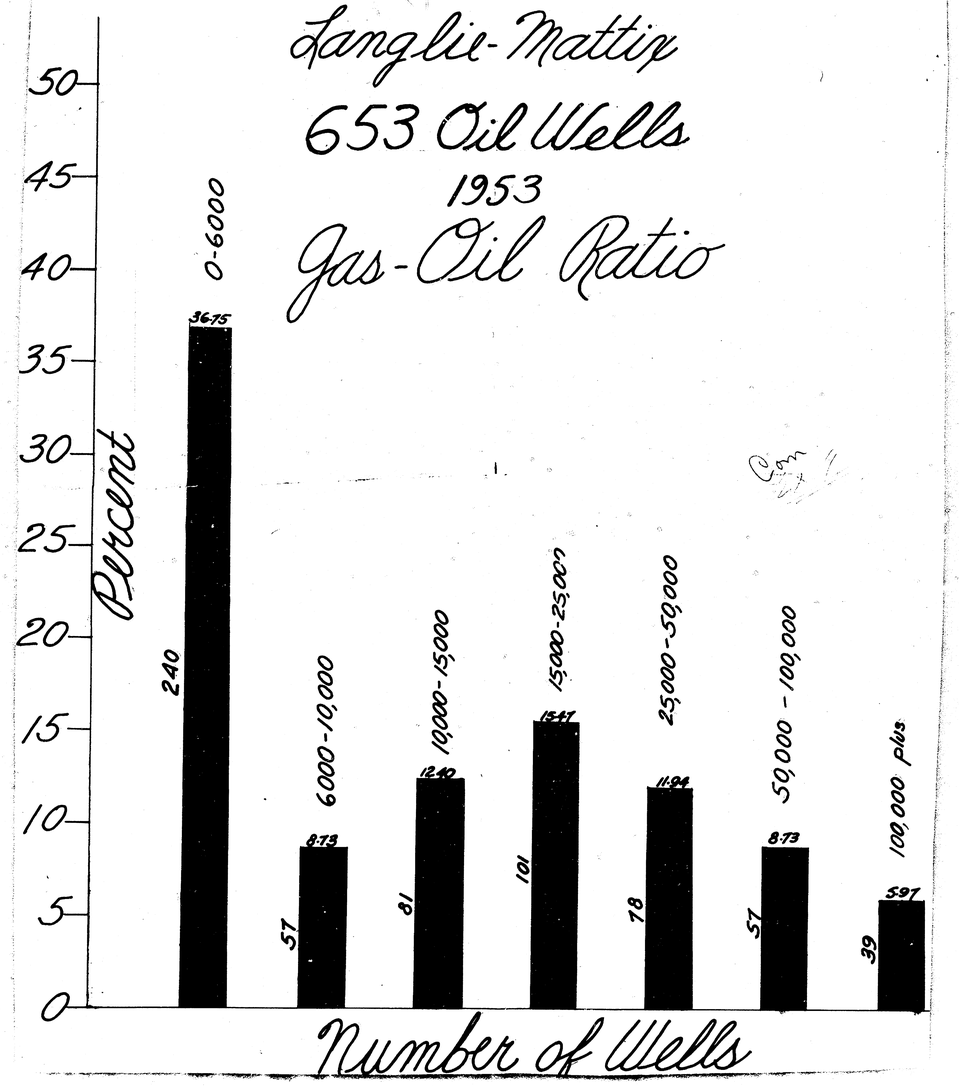


Langlie-Mattix & Cooper - Gal
1953
Csg Head Gas
32,589,294 m.c.f.



272

Cooper - Jal & Langlie-Mattix 653 Oil Wells 1953 Gas-Oil Ratio



Amerada Exhibit #3

Sec. 29 - T21S - R36E

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Aminoil	1-F	M	660 FSL & 660 FWL	3617	3976	3958	7"-3915	SSW - 3915	Treated w/1000 gal acid & 5000 gal acid & 30,000 gal lease oil & 30,000# sand. Swabbed 4 hrs. 50% WTR. Sanded up to 3867'. Shut in. Shut in 5½ hrs. 450 psi. Swabbed 4 hrs. 50% WTR. Shut in.
	E-J	H	1980 FNL & 660 FEL	3647	3940		5½-3850	F-4380 PH 2" Flg 24/64	DST 3820-50 15 min 140' 0.1 mud 30,000 ft GTS in 14 min. Gauged 1000 cu ft in 19 hrs. Gauged 2000 cu ft in 24 hrs. Recovered 90 bbls oil.
Humble	1B	E	1980 FNL & 660 FWL	3657	3971		7"-3941	F 2326 bbls water (2 7/8 tbg 120 BPH & 3 1/2 csg 1200 BPH)	DST 3877-3944 Shows 30' fluid & no gas. DST 3790-3911 Shows 100' oil & 1000' water. Swabbed 100 bbls fluid in 14 hrs before finishing w/2000 gal acid.

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Humble	2-B	K	1980 FNL & 1980 FWL	3668	3974		7"-3918	F-1240 BO 23 hrs on 1" ck & on 2¼" tbg	DST-3850-78 Dry DST-3850-3914 Show oil 7 min
	3-B	J	1650 FSL & 1980 FEL	3637	3919		7"-3859 F-1100 BO 24 hrs on 20/64" ck - 2½" tbg.		@ 3702 tested. Nothing @ 3915 Tested 15 BO/HR Treated w/1000 gal acid - F-20 BO PH
	4-B	B	330 FNL & 1980 FEL	3648	3920		6¾-3859	F-350 BO - 45 hrs on 2½" tbg open	@ 3831 tested 10 BO/H @ 3900 tested 30 BO/HR Swbd. Treated 3930 - 4000 gal acid - F 112 BO/HR.
	6-B	G	1980 FNL & 1650 FEL	3653	3900		5¾-3850	F-71 BO/H on 2½" tbg, 146 BO with gas.	DST 3850-91 1 hr F 1160
	6-B	O	1980 FSL & 1650 FEL	3651	3900		5½-3825	F-55 BO/H thru 2" tbg, 546,000 cf/d gas	DST 3832-3900 1 hr F 54½ BO/H.

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Humble	7B	I	1980 FSL & 660 FEL	3637	3900		5½-3807		
	8B	P	1650 FSL & 660 FEL	3624	3901		5½-3721	F 900 BOPH on 16/64 CSEM 3/4" ck 2" tbg	DST 3820-3907, 20 min 1260' O.I. 270' mud Treated w/500 gal acid & 10,000 gal sand-oil frac. Swbd 12 hrs 72 BO 0 BW
	9B	K	1980 FSL & 1980 FWL	3648	3914		5½-3812	F-110 BO in 2 hrs on ¾" ck - 2" tbg 14,111 S	
	10	A	330 FNL & 330 FEL	3632	3900		5½-3805		DST 3728-76, 10 min, 2161 O.I, -50' mud, 2,000,000 S
Pearless		L	1980 FSL & 660 FEL	3634	3914		7"-3850	P-75 in 3½ hrs on 20/64 ck - 2" tbg	DST 3832-70 light mud 30 Min 3762 treated 4000 gal acid.

Sec 30 - T21S - R36E

Company	Well	Unit Location	Location	Elev.	T.D.	PB	Csg	Oil & Gas	Remarks
Continental	A-30-1	H	1650 FNL & 990 FEL	3648	3957		5½-3818	F 1000 BOPH on 12 hrs - 2½ tbg	DST 3850-3900, 30 min 6 cut 12 min @ TD 3940 Treated 3900-3940 gal acid & F 581 BO in 4 hrs Retreated 4000 gal, F 216 BO in 12 hrs. @ TD 3957 Treated w/2500 gal.
	A-30-2	A	990 FNL & 330 FEL	3655	3963		5½-3935	F 652 BO in 20 hrs thru 5/8" ck on 2½ tbg F 146 BO & 1 MCF in 24 hrs 2" tbg Gas - 371 MCF	@ 3942 Treated 35 BO/HR No WS @ 3958 Flows 112 BO/HR
	A-30-3	B	990 FEL & 1650 FSL	3644	4021		5½-3930	F-288 BO & 29 MCF in 24 hrs 2½ tbg cut 6/8 & 2¼ 4,000 G	DST 3770-90 30 min, 60 ft G, 120' mud & wtr DST 3974-4050 30 min, 180 ft G, Rat hole
								@ TD 3978 Tested nothing @ TD 3998 Tested nothing @ TD 4021 tested nothing @ TD 4021 F 800 BTPH & 7% Cut Mud 5½ Csg cut at 3971	DST 3940-3980 30 min 120' mud & O.I. 660 DST 3996-4030 30 min 190' mud & O.I. 660

Sec 30 - T21S - R37E

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Continental	A-30-4	G	1980 FNL & 2630 FEL	3642	3930		5½-3774	F-1250 BOPH-No WS on 2" tbg 434,000 G, Natl.	
	A-30-5	K	2310 FSL & 1980 FWL	3628	3929		5½-3767	F 1450 BOPH on 3/4" ck - 2" tbg 437,000 G Natl.	
	A-30-6	F	1650 FNL & 2310 FWL	3640 with 10' KB	3900	3920	5½-3774	F 43 BO & 45 MCF in 20 hrs 2" tbg	F 6½ BO/H 5½ csg perf. 3833-3878, 54 shots, F 63 BO/H (30 hrs. test) PB 3920 treated w/1000 gal F 60 BO/H 65% WTR in 12 hrs. Retreated w/6000 gal.
	B-30-1	N	1650 FNL & 660 FWL	3635	4101	3936	5½-3711	750,000 gas	Shows @ 3938(TD) F 1840 Mcf gas 1.1" Treated w/2000 F 12,000 gal 15% HCL 2" tbg @ TD 3938 Treated w/1000 gal 15% HCL 3" tbg @ TD 3765 treated w/1000 gal F 12 BO/H 12 hrs 5,500,000 S

@ 3938-42, shut in 30 min F 580 PH 34 MG, retreated w/1000 gals 15% HCL & 1500 gals diesel oil & 1000 lbs sand. Flow 24 hrs 1/2" ck F 1240 MCF, 1.1" FTP 1000 lbs

Sec 30 - T21S - R38E

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Texas	Roster 1	I	1980 FSL & 660 FEL	3630	3944		7"-3902	121 BOPH-2 3/4 tbg 1,197,000 G	DST 3901-44 F 1940 BPH @ 3904 3944 pay higher than Eumont pool / mcfd DST 3928-3902 Sli. W.
	Roster 3	P	660 FSL & 1650 FEL	3613	3941		7"-3878	F-32 BOPH on 2nd hr test.	DST 3850-3876 Showed nothing DST 3835-3876, 3,540,000 14 lbs, Blk. Sul. Wtr. DST 3870-3893, 180,000 S 3894-3941 Shows 1% Mc & 93 BOPH est.
	Roster 3	J	1650 FSL & 2310 FEL	3634	3950		7"-3916	F-446 BO in 5 hrs 2 MG thru 2" tbg Natl.	

Sec 30 - T21S - R36E

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Texas	Roster 4	O	1991 FSL & 660 FSL	3629	3950		7"-3764	F-460 BO in 9 hrs thru 1" ck - 2½ tbg 750,000 G Natl	

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Sec 31 - T21S - R37E

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Carper & Sal	Lockhart 1	L	1980 FSL & 990 FWL	3636	3874		5½-3820	F-672 BOPD 2" tbg (based on 8 hr test on 20/64 CK) GOR 1470 C.P. 0 TP-75	3735-3874 Treated w/600 gal acid, Swabbed dry. Retreated w/6000 gal
Continental (Kirkland)	Lockhart 1	C	330 FNL & 330 FEL	3628	3890		6"-3804	A cy, 2 Bbls per dy 2 M G (wet)	3625-3775 yes C 3783-3792 O.I. 3783-3798 Oil Ref. 3645 3650-60 w/60 gks 3607-3672 -80 w/80 gks
Continental	Lockhart 5-31-D	N	2437 FSL & 1893 FWL	3622	3872		5½-3674	F-138 BO 20 hrs - 32/64 ck - 2" tbg Pkr 3742 Sat 1-12-60	@ TD 3752 F 180 BOPH Treated 1000 gal & sand-frac with 7-8 M S. @ TD 3752 w/1000 gal 3742 F 60 BO in 5 hrs 36/64 ck - 2" tbg 120 MCF Treated 1000 gal acid.

Sec 31 - T21S - R36E

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Continental	Lockhart B-31-C	C	330 FNL & 1988 FEL	3636	3916		7"-3772	25 MG	STD-Swbbed dry Natl. Treated w/1000 gal 15% HCL-Swbd 4 hrs dry Natl. Treated w/1000 gal 15% HCL & 1000 gal gelled diesel oil & 2000 lbs sand F-2 BO-Swbd 4 hrs dry Natl. Treated w/1000 gal 15% HCL & 1000 gal gelled diesel oil & 2000 lbs sand F-2 BO-Swbd 4 hrs dry Natl. Treated w/1000 gal 15% HCL & 1000 gal gelled diesel oil & 2000 lbs sand F-2 BO-Swbd 4 hrs dry Natl.
	Lockhart B-31-G	P	330 FSL & 660 FEL	3629	3974		5½-3776	F 710 BOPH for 2 hr thru 5½ csg 2" tbg @ 32,000 GPD with	F 749 BOPH for 2 hr thru 5½ Csg of TD 3974
	Lockhart B-31-E	K	1980 FSL & 1981 FWL	3628	3960	3888	5½-3958	Gas 1 ft - 100 BO thru 1¼ & 5/8 SW 10 hrs - 36" ck - 2" tbg	4th shows 3765-3940 PB 3896-6 Perf 3928-38 1st 500 gal, Swb 40 BO 9 hrs, rel to 4 BO/hr, Swb 1080 BW-F by gas 1st 1 GTS 2nd 1 GTS 3rd 1 GTS Set ret 3922 & perf 3895-98 3862-3918, 3917-22 Swb dry hole. Trt w/500 gal 15% HCL Trt w/5000 gal 15% HCL & 5000 gal gelled diesel oil & 5000 lbs sand. Flow 24 hrs 1/2" ck F 1240 MCF 1.1" FTP 1000 lbs

plus 30 BSW-10 hrs PB-3878 perf 3871-88 F by gas 1st 1 GTS 2nd 1 GTS 3rd 1 GTS-Show Sal ret 3858 per 3814-19, 3830-33 3842-48, 3854-58, PB 3846 perf 3818-3834 w/sec gel, F 0 in 1 hr 1 BO in 2 hrs 2% BSW in 1 hr

Sec 31 - T21S - R37E

Company	Well	Unit Location	Location	Elev.	T.D.	PBD	Csg	Oil & Gas	Remarks
Continental	Lockhart A-31-F	F	1980 FNL & 1980 FWL	3643	3780		7"-3535	F Natl 76,000,000 CAOPD-46 BPH thru Csg.	
Late O.I. Co.	Rester 1	G	1980 FSL & 1980 FEL	3635	3781		5½-3770	F-20,750,000 CAOPD-2" tbg	
Late O.I. Co.	Rester 2	H	1980 FSL & 660 FEL	3628	3780		5½-3765		@ 3746 swb. Sub dry. PB 3732 per 3734-42 tst W/500 gal da. Swb dry tst. 37 45-57, tst 500 gal Swb dry PB A.
Late O.I Co.	Rester 1-A	G	1980 FSL & 1980 FEL	?	3822		7"-3760	F 13 BO PD - 16/64 ck - 2" tbg Gas - TP 250	Treated 3000 gal.

Sec 31 - T21S - R38E

Company	Well	Unit Location	Location	Elev.	TD	PBD	Csg	Oil & Gas	Remarks
Two States O.I. Co.	ATH 1	M	1650 FSL & 990 FEL	3615	3972		5½-3742	F 220 BOPD on 20/64 ck - 2" tbg	TD 3972 - Perf 3744 w/2 SPF 3744-3752 Tst w/1000 gal 15% HCL 2" tbg 18,332 gal F 64 BO 2 hrs 1/2" ck F 1240 MCF 1.1" FTP 1000 lbs @ TD 3765 Treated w/1000 gal F 12 BO/H 12 hrs 5,500,000 S

Sec 32 - T21S R38E

Company	Well	unit Location	Location	Elev	TD	PBD	Csg	Q/B Gas	Remarks
Empire Gas & Fuel	State 10	B	348 FNL 1980 FEL	3445	3890		9⅝-3030	F-3556 in 5" Hdy	DST 3520-72, 30 min 220 MCF TD 3890 sand down 2300 BO, 12 BW, Pot. 1,832,000 cf. Acid, F 750 gal HCA, retest 1,944,000 cf.
Empire Gas & Fuel	State 20	G	1980 FNL 1980 FEL	3606	3940		9⅝-3810	F-3911 60 min 14 in 5" Hdy on 1" BHC	TD 3940, 9⅝ set @ 3810, sand dry, shut 3932-3940 w/ 300 gals.
Empire Gas & Fuel	State 30	A	660 FNL 1980 FEL	3615	3911		9⅝-3910	F-3911 60 PH Dead in 20 min Hdy 2" on 2" Csg Est 25 MCF in 15 min.	TD 3911, 9⅝ set @ 3910, 12 sx cmt. Hdy 2" csg drill pipe in hole.
Empire Gas & Fuel	State 40	H	1980 FNL 660 FEL	3598	3941		7"-3910	P-750 BO + 0 Show of Sal	TD 3941, Shot 3900-3910 Treated 2500 gal 15% HCl w/ 50 ball sealers Swab 3700 BO + 0 BW in 3 hrs, 1 hr SIP 1150 psi Swab 3930-3936 w/ 1500 gals 15% HCl w/ 50 ball sealers Swab 50 BO + 0 BW.

Sec 32 - T21S-R38E

Company	Well	unit Location	Location	Elev	TD	PBD	Csg	Q/B Gas	Remarks
Gulf	Jacobs B	I	1980 FSL 660 FEL	3634			5½-3584	Abnd dry hole	
Peek Oil Co.	State 1	M	330 FSL 330 FWL	3629	3890		5½-3829	F 750 BO PD thru 2" Hdy	Treated w/ 5000 gal acid

Sec 32 - T21S-R38E

Company	Lease	Well	unit Location	Location	Elev	TD	PBD	Csg	Perforations	Queen Before	Queen After	Notes Before	Notes After	Remarks
Humble	State	B-7	I					5½-3923 7⅝-3791	3211-3225 3240-3246 3253-3260	3198	1-6-58	—	2,330	W/ 500 gal 15% HCl 3210-3218 Hydrafrac 1000 gal 3232-3237 3242-3246 3252-3265 Acid 3211-3237 3253-3260 Acid 3211-3260
Continental-Eckhart	B-32-4	P						5½-3776 7⅝-3946	3776-3946	0 cf.	6 cf.			Acid 2000 gal load N gas
Continental-Eckhart	A-32-1	H							3361-3398 3402-3422 3432-3530 3616-3670					
									3306-3512 3663-3720					Cal Spec Flow 3616 Mcf Shut in 30 min - 1035 psig Between 3674 & 3720 by calc. volume 4,950 M Mcf.
Continental-Eckhart	A-32-6	F							3402-3505 3576-3622 3651-3677 3316-3414 3424-3470 3510-3544 3628-3662 3672-3720	3 gals 1 gal 1 gal 1 gal 1 gal 1 gal 1 gal 1 gal 1 gal				Loaded hole w/ 84 BO & 3476 Frac 10-17-58 3339 - Sand Screen Out 3516-3722 w/ 1,333,000 cf Gas Prod. 15 MCF/day 3220 psi. Cal Spec Flow 3600 M Mcf/d

Well Data

Company	Lease	Well	unit Location	Csg	Perforations	Queen	Notes	Remarks
Humble	State	B-1	E	7"-3920				Potential 2000 MCF/day Pressure change from 1800
Lobo Oil Co.	Rector	1	G	5½-3910				Initial prod 2,750 MCF/D

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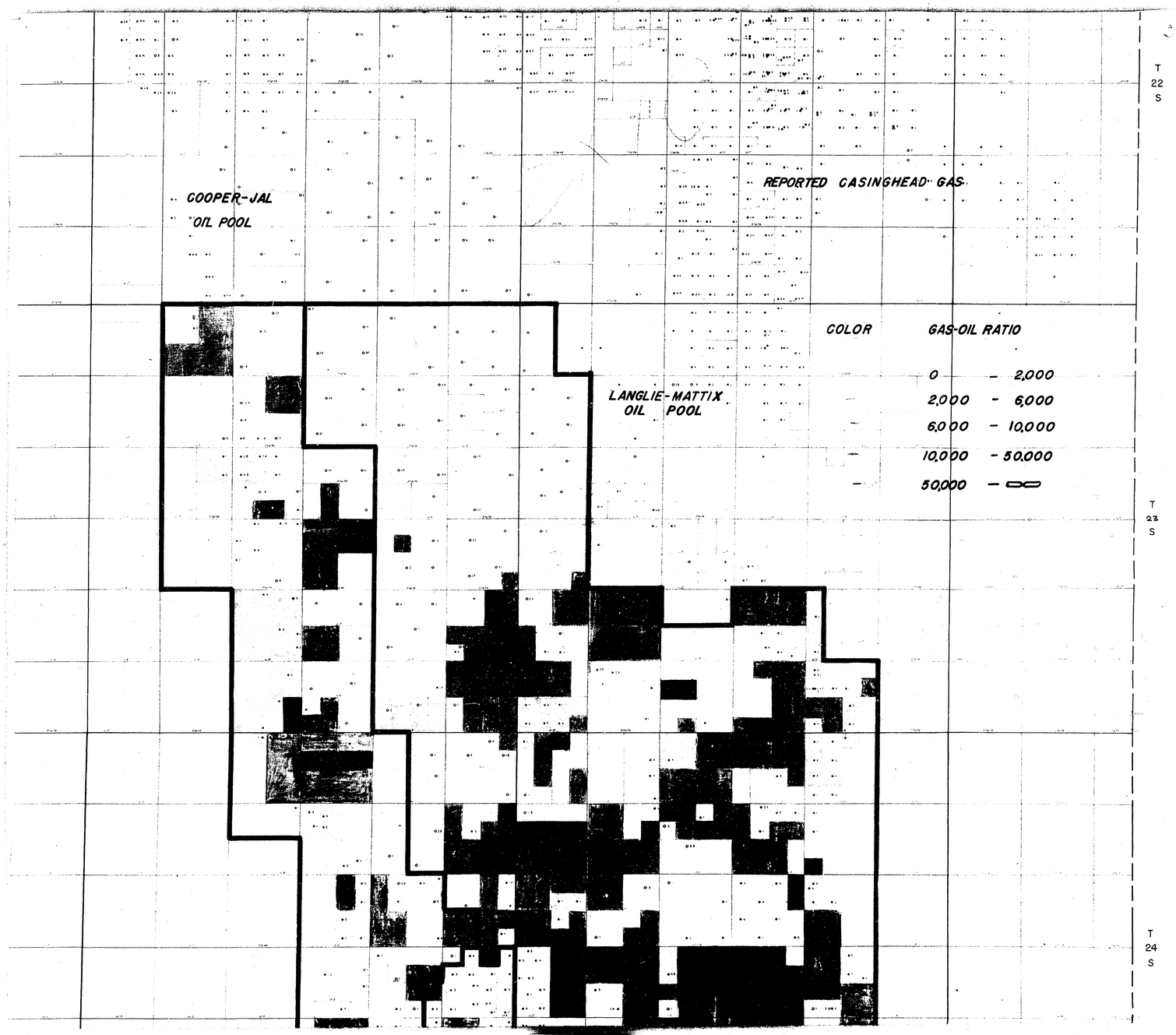
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COOPER-JAL
OIL POOL
REPORTED CASINGHEAD GAS
LANGLIE-MATTIX
OIL POOL
COLOR
GAS-OIL RATIO
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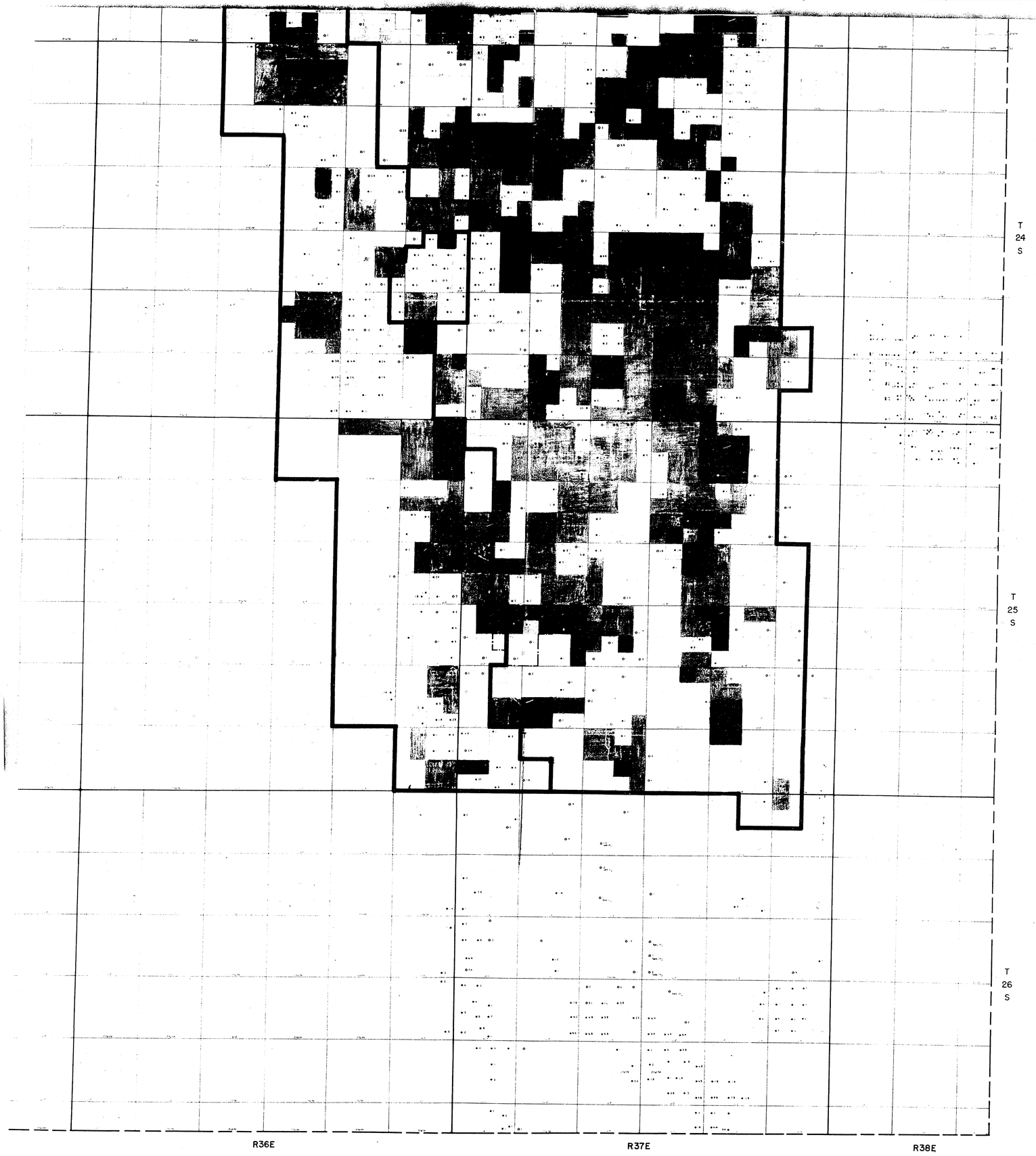
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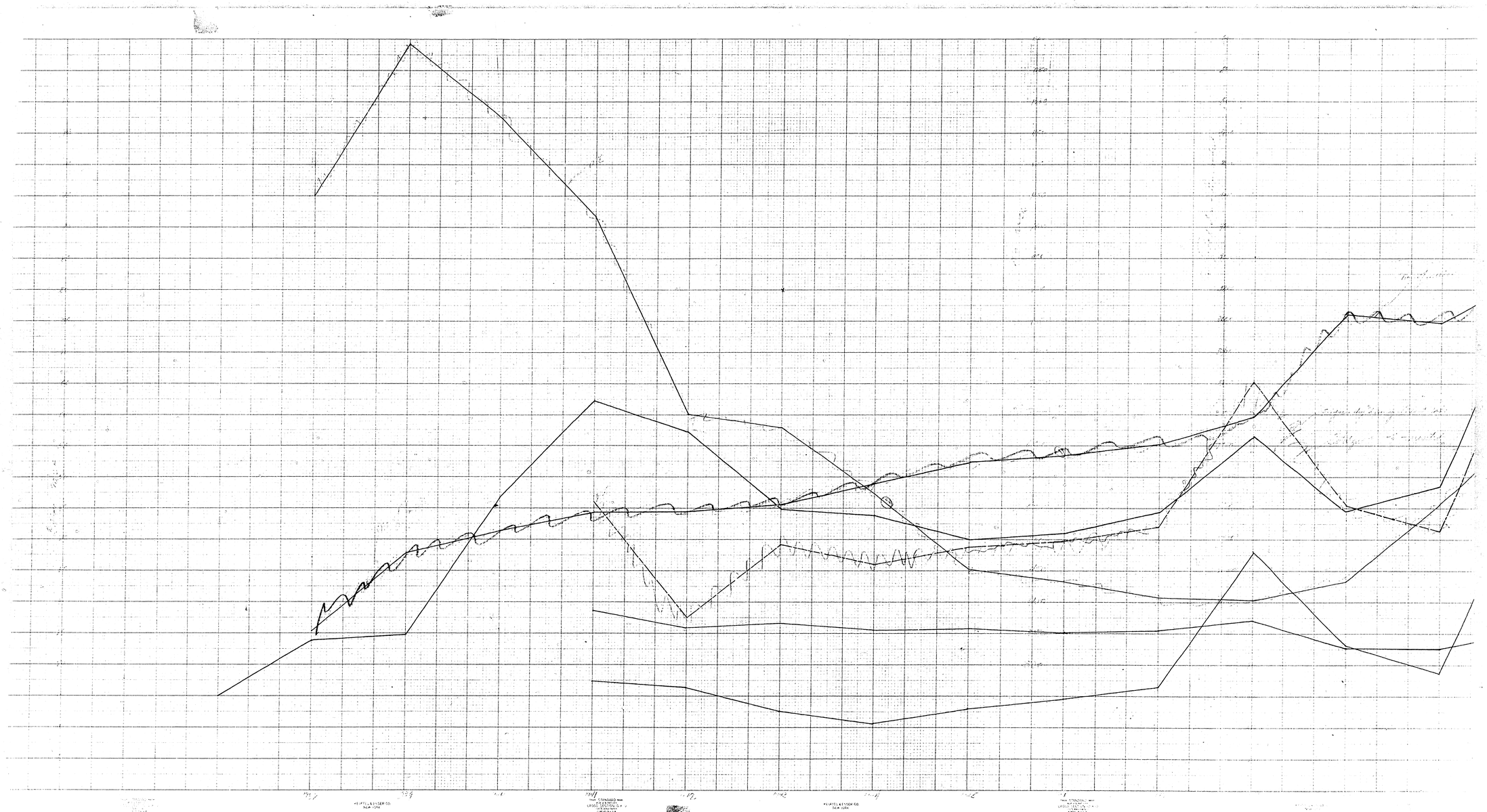

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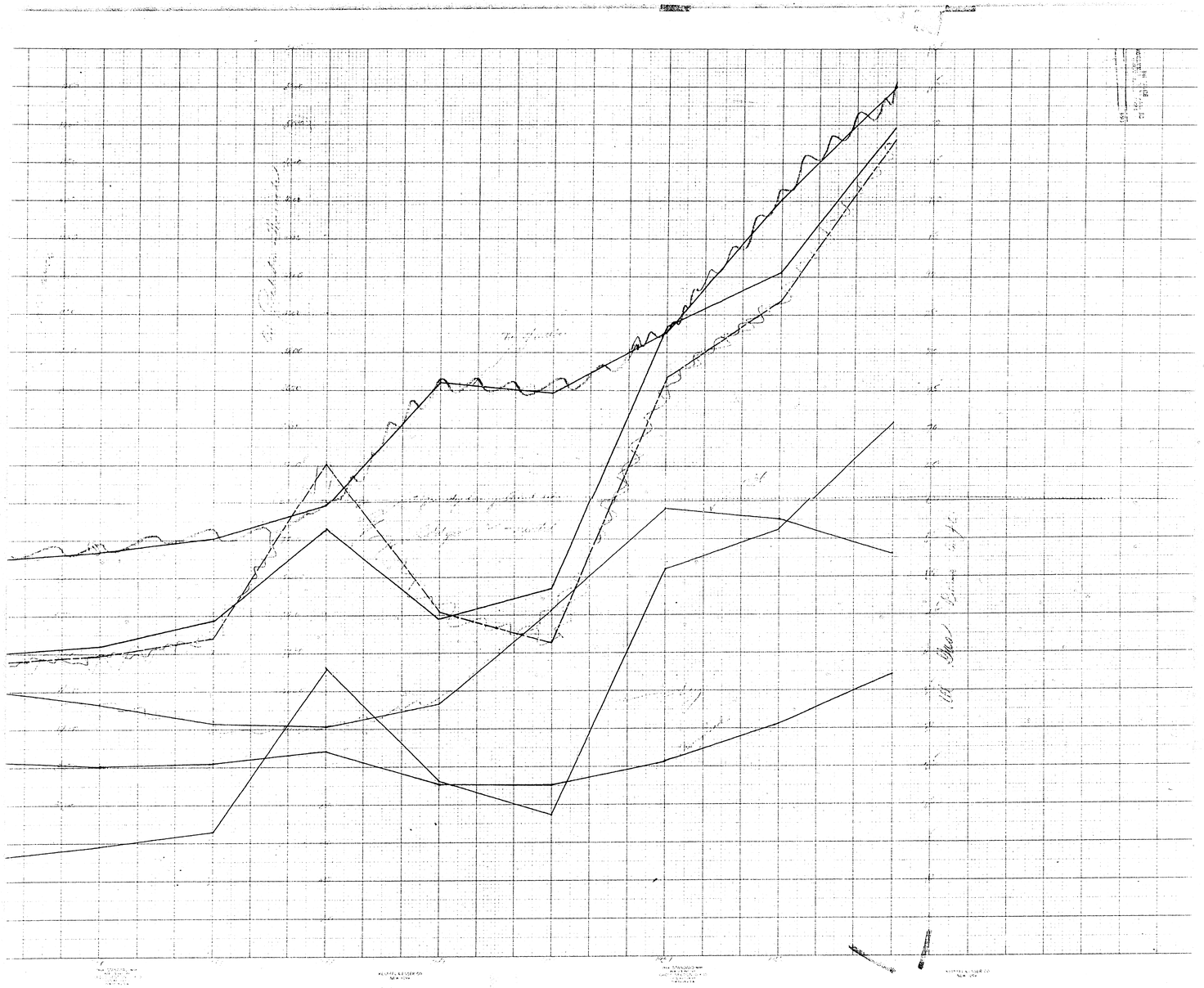
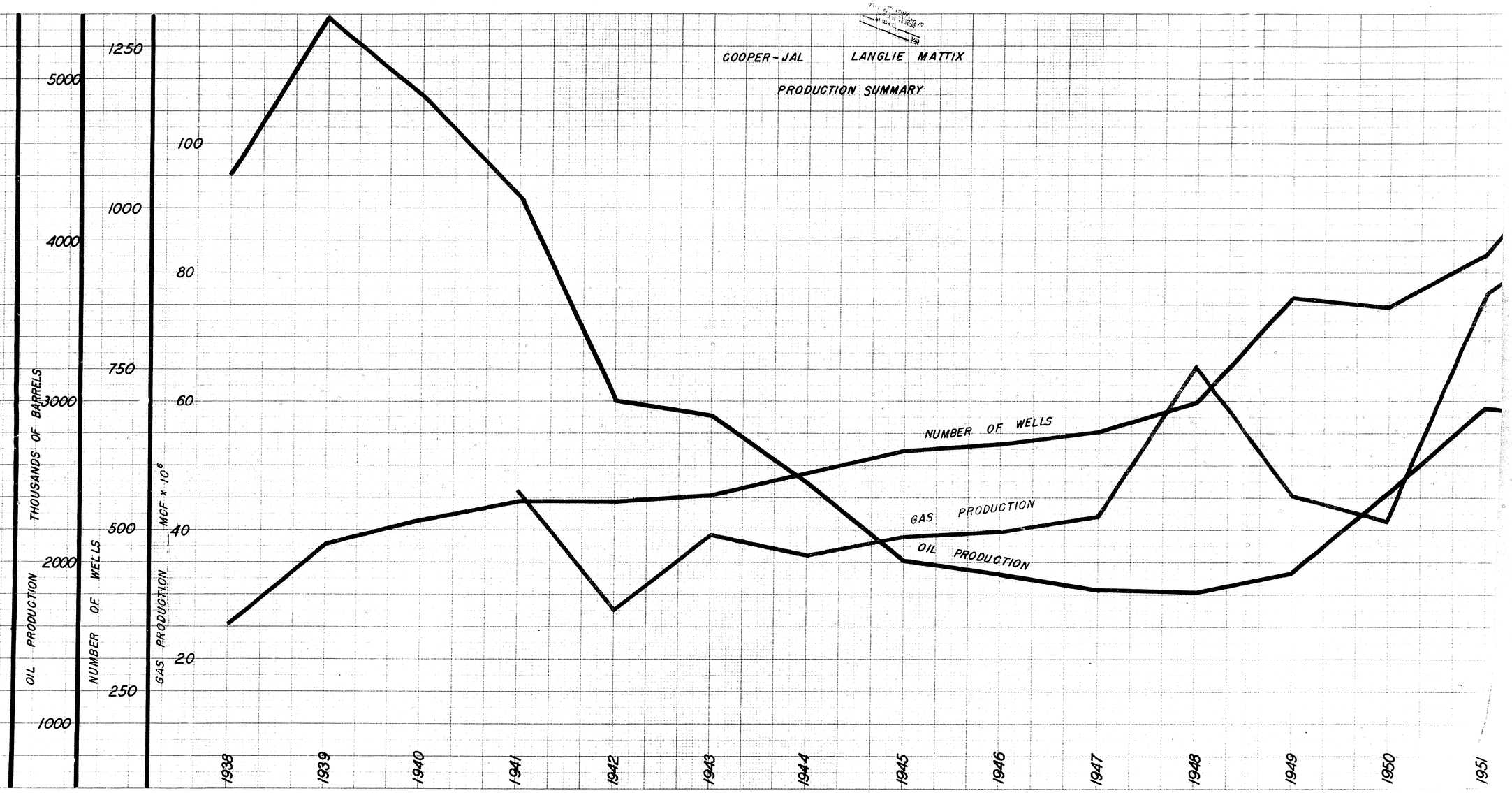
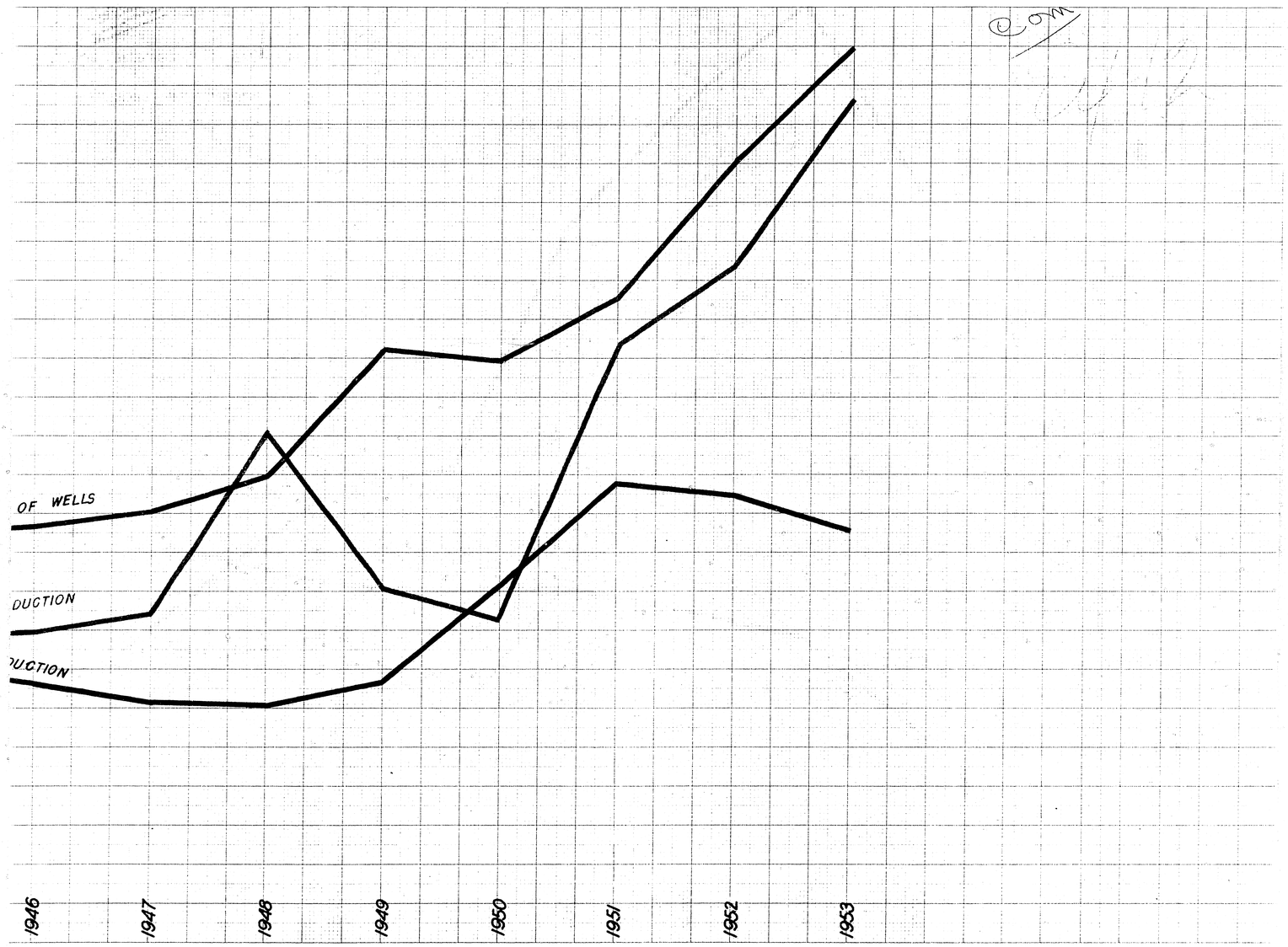


COOPER-JAL LANGLIE MATTIX

PRODUCTION SUMMARY




OF WELLS
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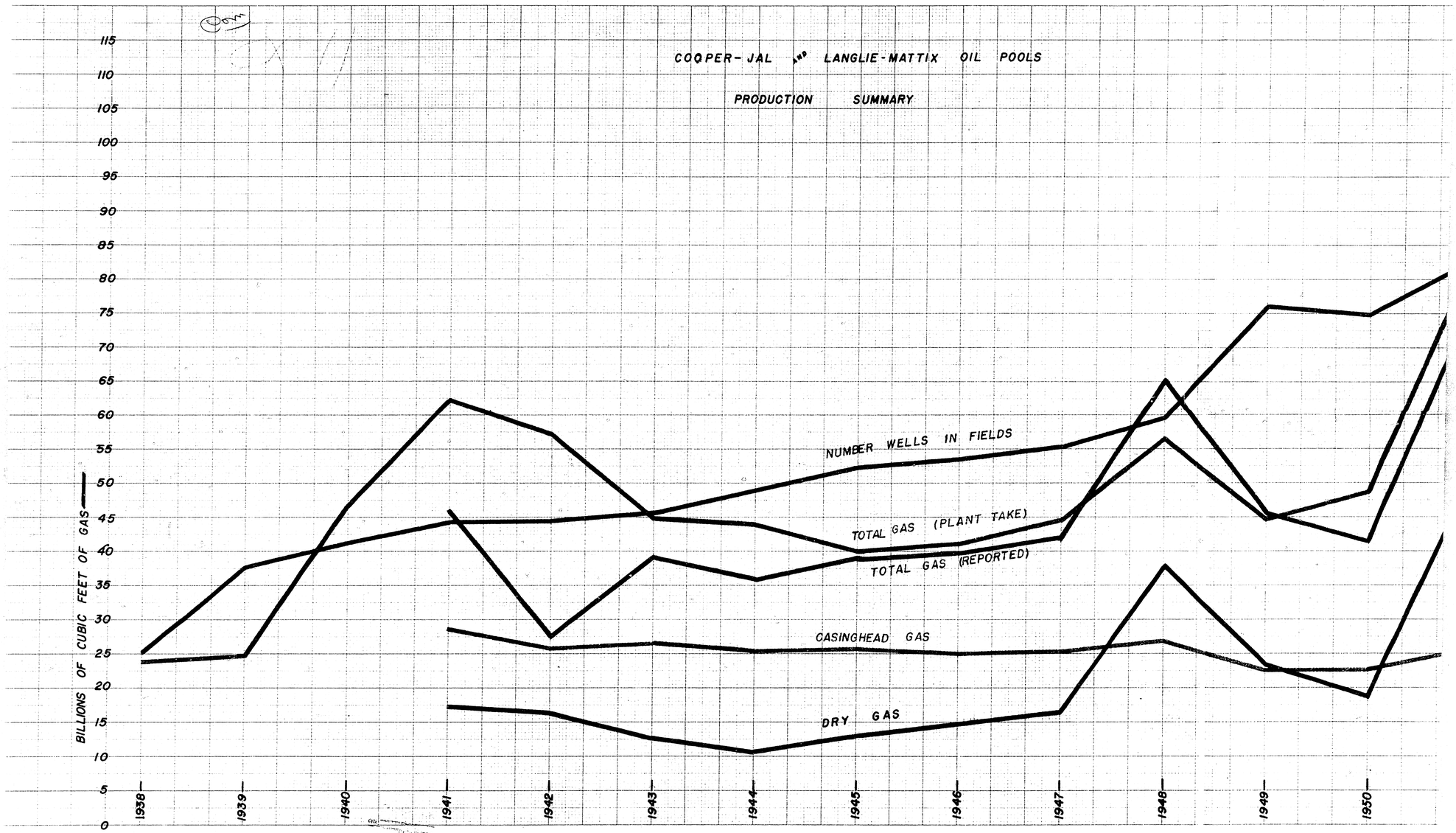
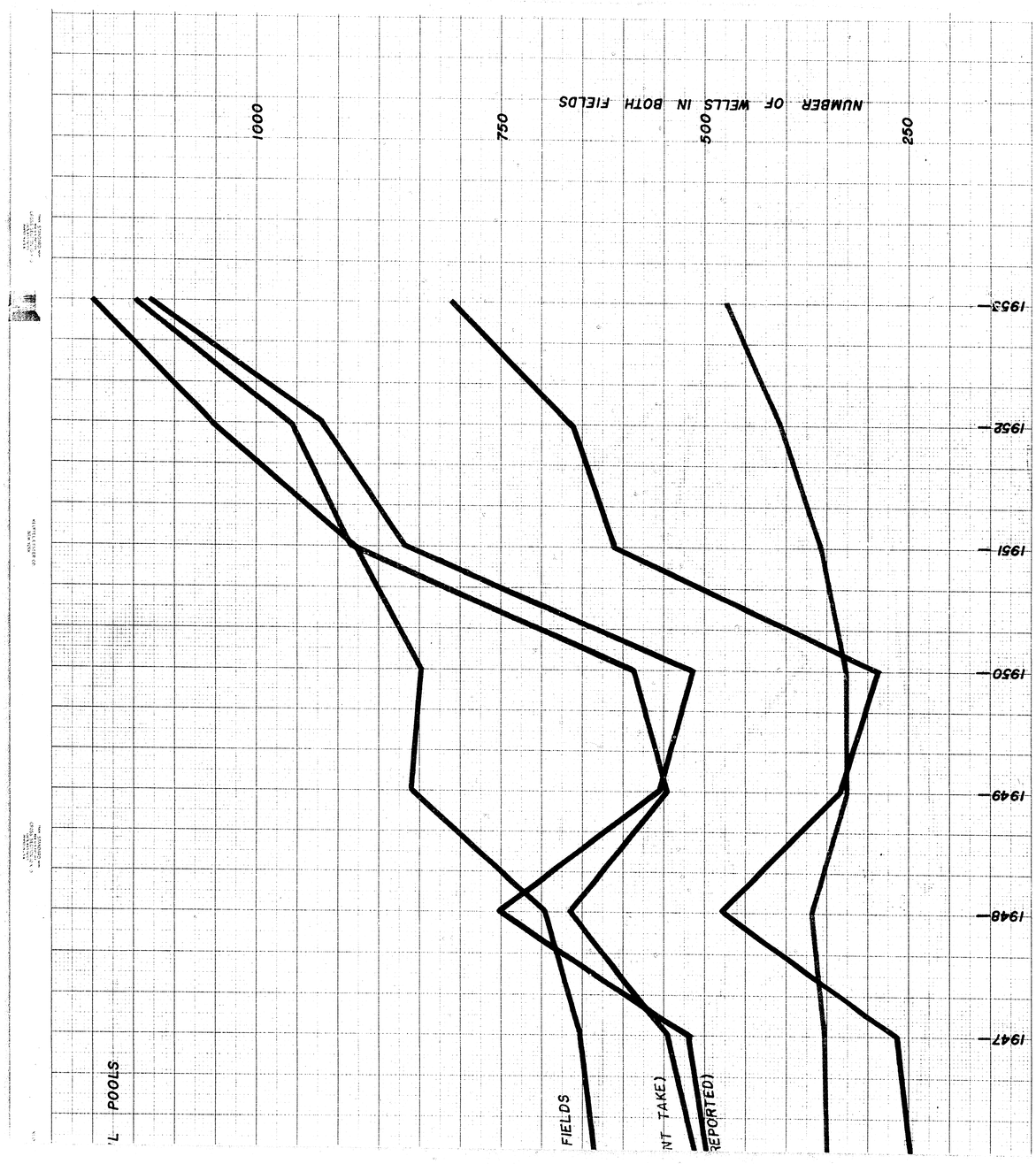
1953

COOPER-JAL AND LANGLIE-MATTIX OIL POOLS

PRODUCTION SUMMARY

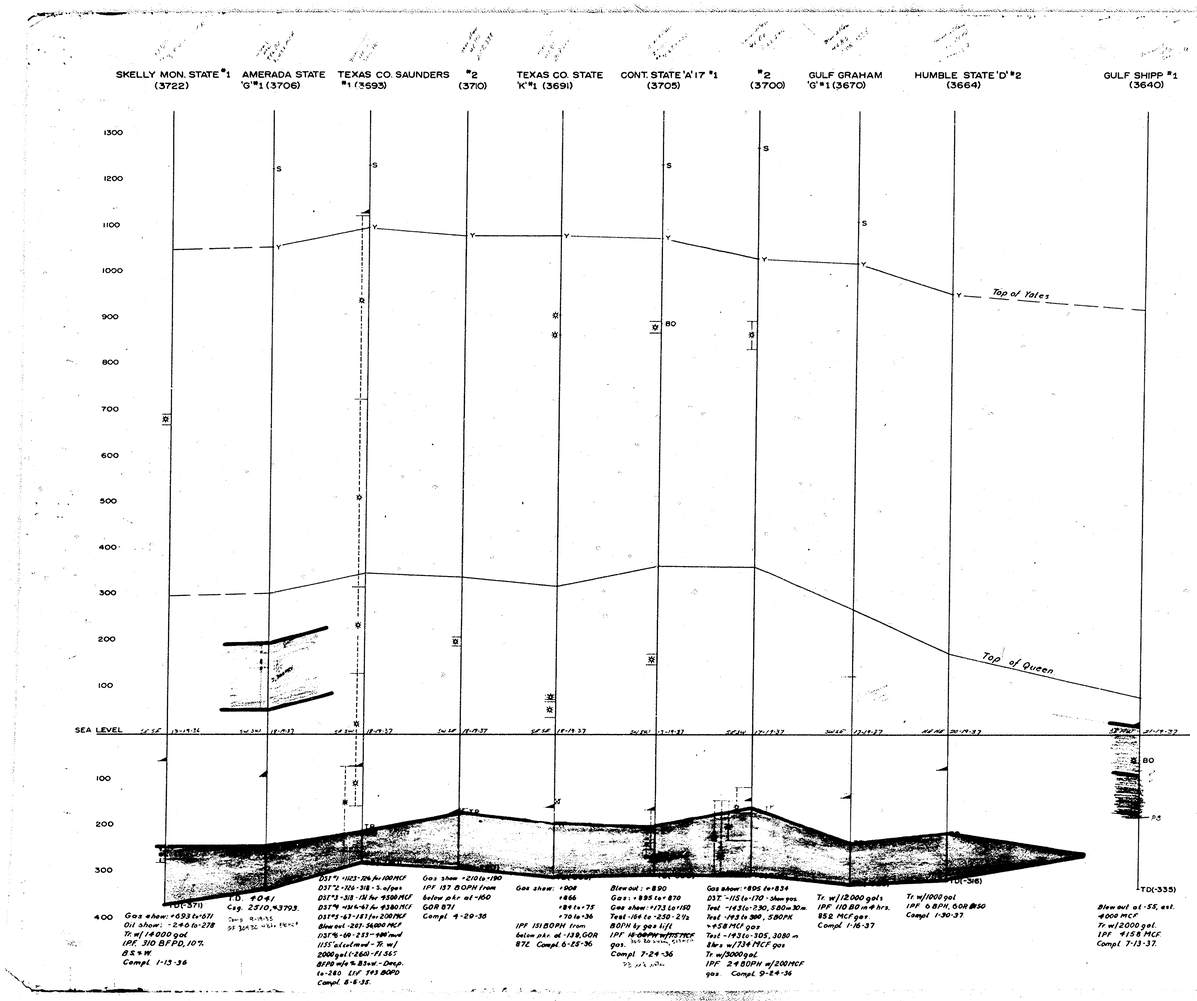



NUMBER OF WELLS IN BOTH FIELDS
1000
750
500
250
1953
1952
1951
1950
1949
1948
1947
FIELDS
REPORTED)

282

EAST-WEST SECTION T-19

Scale: Vertical 1"=100'
Horizontal 1"=600'



LEGEND

Top of Yates	Y
Base of Salt	S
No Show	NS
Gas Show	☼
Oil Show	●
Oil and Gas Show	◪
Casing	
Sulphur Water	SulW
Sult Water	Gw
Tubing Packer	⊠
Total Depth	TD
Plug Back Depth	PBD
Tested Interval w/Show of Oil	
Shot Interval w/240 qts.	
Perforated Interval	Perf
Liner	Top / Bottom
Lost Circulation	LC
Blow Out	BO

SCALES

Horizontal 1" = 600'

Vertical 1" = 100'

Com EK 13 A

283

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LEA CO. NEW MEXICO

LEA CO. NEW MEXICO & GAINES CO. TEXAS

GAINES CO. TEXAS

HOBBS

BLK. A-8

BLK. A-9

BLK. A-10

BLK. A-12

BLK. A-28

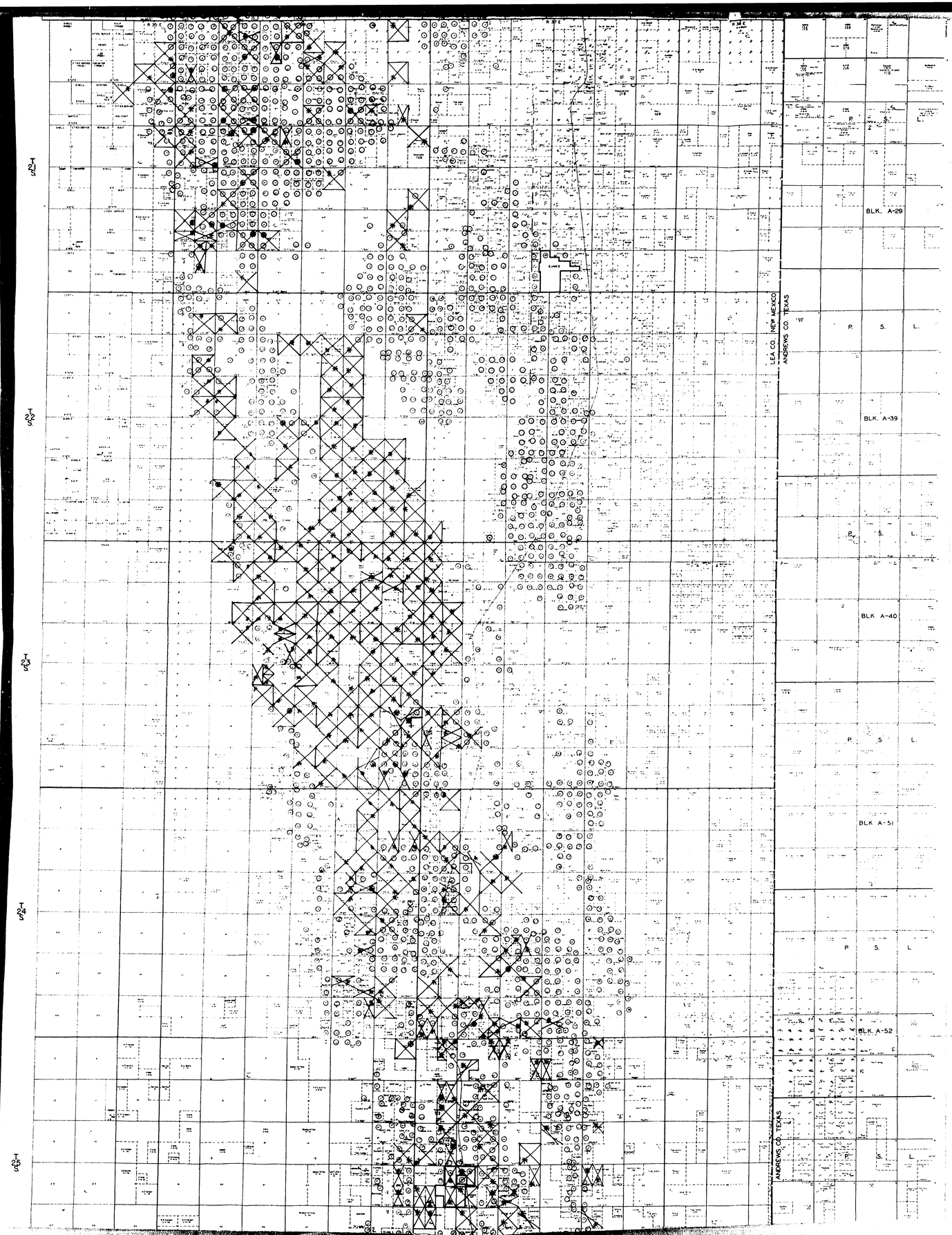
BLK. A-29

P.

S.

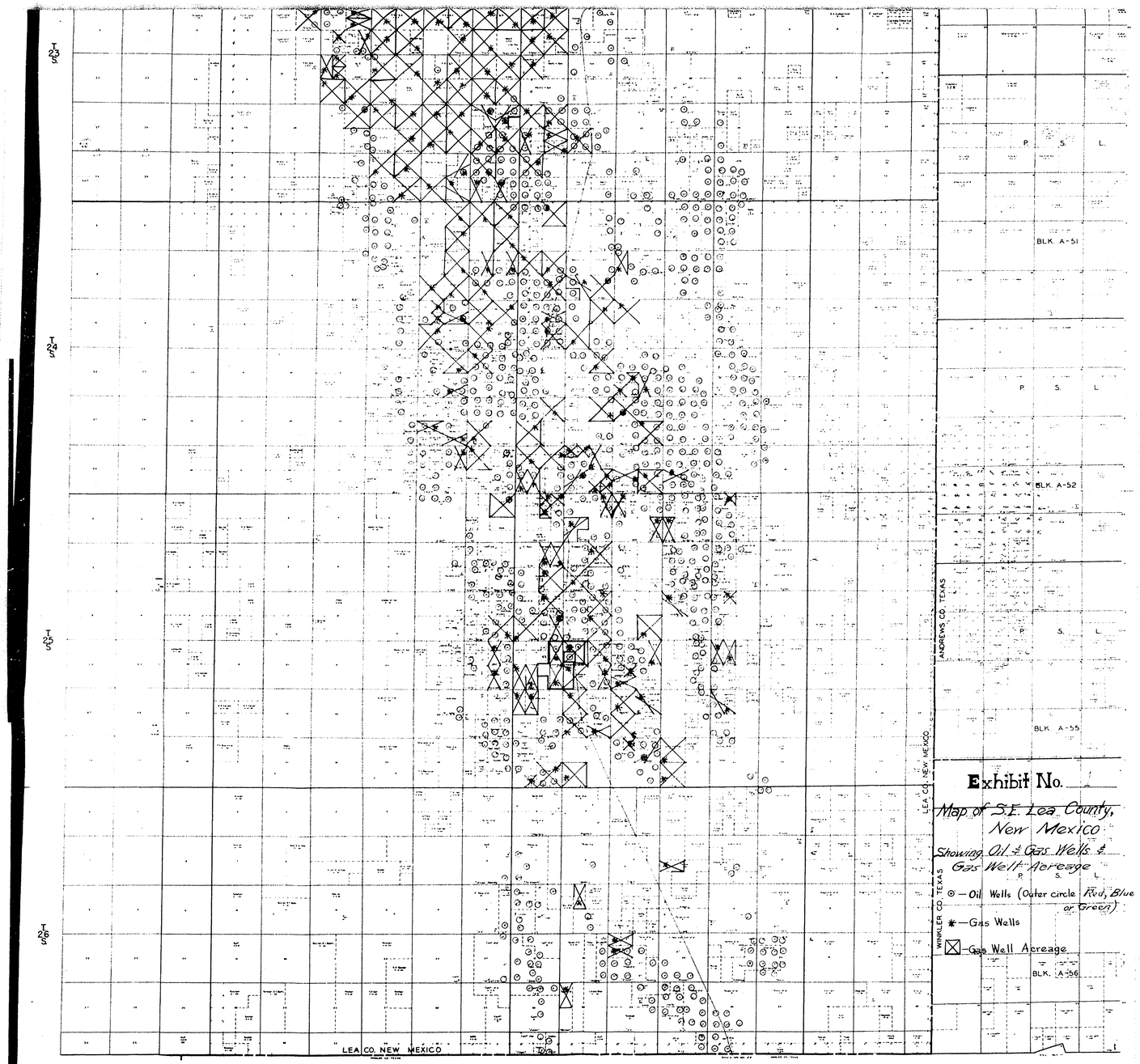
L.

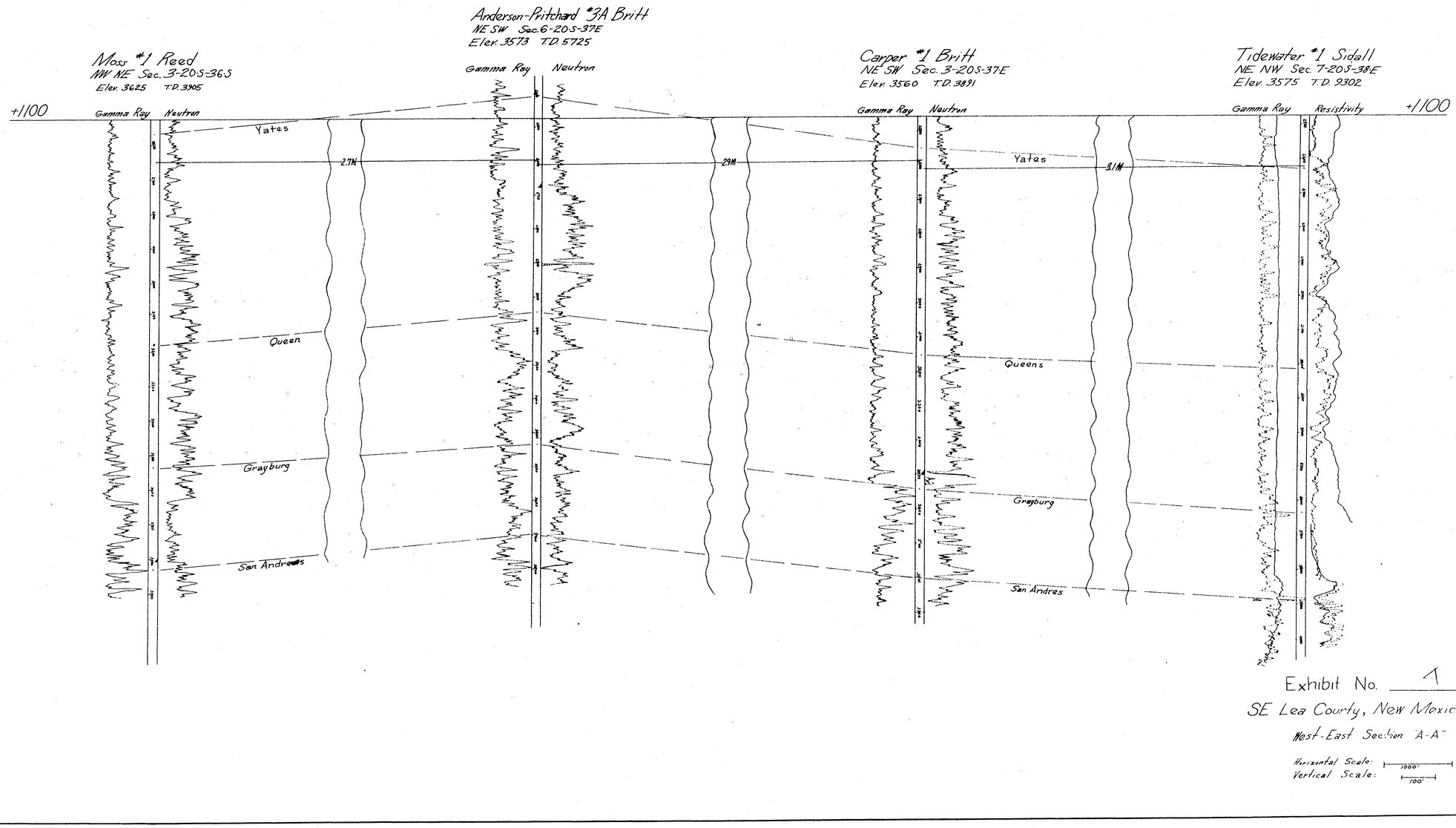
285

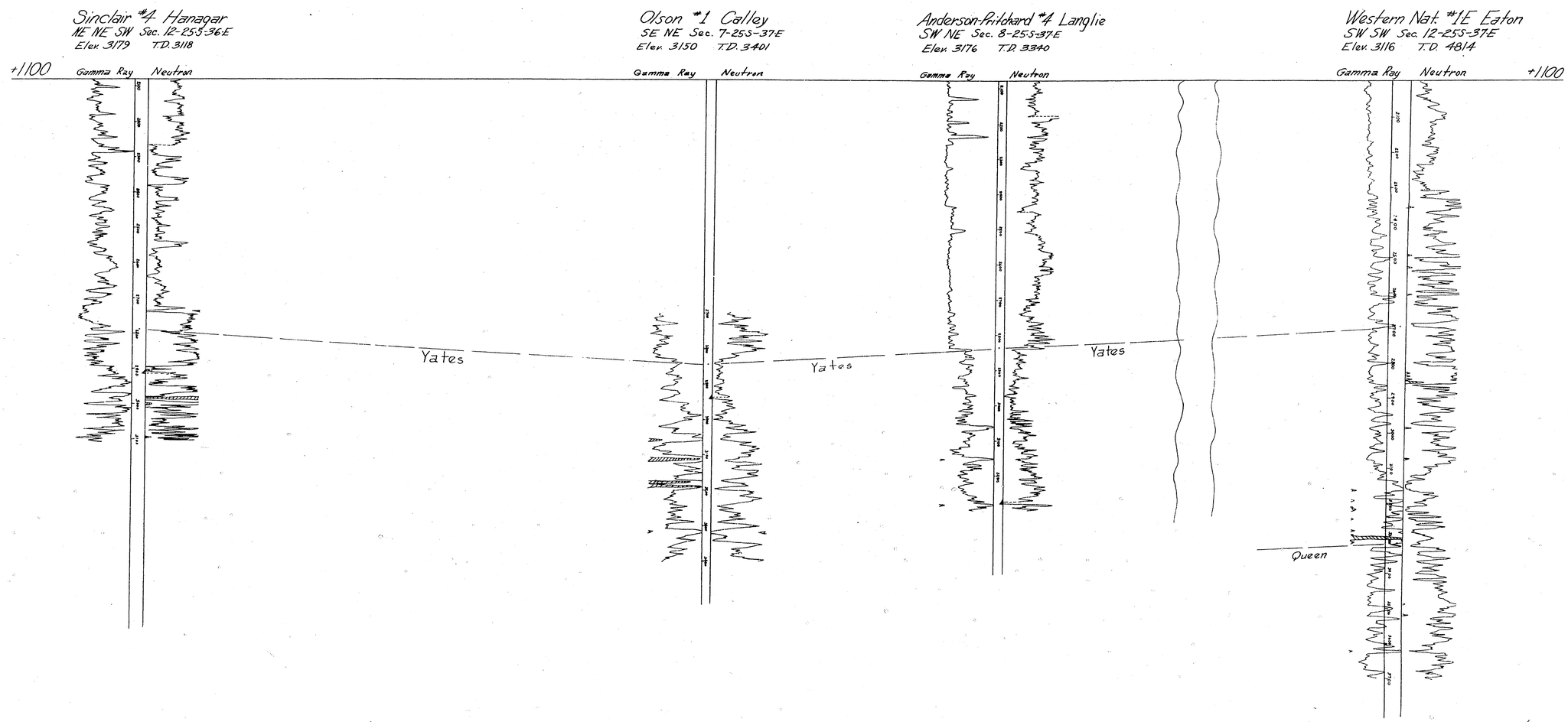


T 21 S
T 22 S
T 23 S
T 24 S
T 25 S
LEA CO. NEW MEXICO
ANDREWS CO. TEXAS
ANDREWS CO. TEXAS
BLK. A-29
BLK. A-39
BLK. A-40
BLK. A-51
BLK. A-52
P. S. L.

286


T 23 S
T 24 S
T 25 S
T 26 S
P S L
BLK. A-51
BLK. A-52
BLK. A-55
BLK. A-56
ANDREWS CO. TEXAS
LEA CO. NEW MEXICO
WINKLER CO. TEXAS
LEA CO. NEW MEXICO
Exhibit No.
Map of S.E. Lea County, New Mexico
Showing Oil & Gas Wells & Gas Well Acreage
⊙ — Oil Wells (Outer circle Red, Blue or Green)
✱ — Gas Wells
☒ — Gas Well Acreage


Moss #1 Reed
NW NE Sec. 3-20S-36S
Elev. 3625 T.D. 3905
Anderson-Pritchard #3A Britt
NE SW Sec. 6-20S-37E
Elev. 3573 T.D. 5725
Carper #1 Britt
NE SW Sec. 3-20S-37E
Elev. 3560 T.D. 3891
Tidewater #1 Sidall
NE NW Sec. 7-20S-38E
Elev. 3575 T.D. 9302
+1100
Gamma Ray
Neutron
Resistivity
Yates
Queen
Queens
Grayburg
San Andres
2.7M
2.9M
3.1M
Exhibit No. 1
SE Lea County, New Mexico
West-East Section "A-A"
Horizontal Scale: 1000'
Vertical Scale: 100'


Sinclair #4 Hanagar
NE NE SW Sec. 12-25S-36E
Elev. 3179 T.D. 3118
Olson #1 Calley
SE NE Sec. 7-25S-37E
Elev. 3150 T.D. 3401
Anderson-Pritchard #4 Langlie
SW NE Sec. 8-25S-37E
Elev. 3176 T.D. 3340
Western Nat. #1E Eaton
SW SW Sec. 12-25S-37E
Elev. 3116 T.D. 4814
+1100
Gamma Ray
Neutron
Yates
Queen
Exhibit No. 6
SE Lea County, New Mexico
West-East Section "C-C"
Horizontal Scale: 1000'
Vertical Scale: 100'

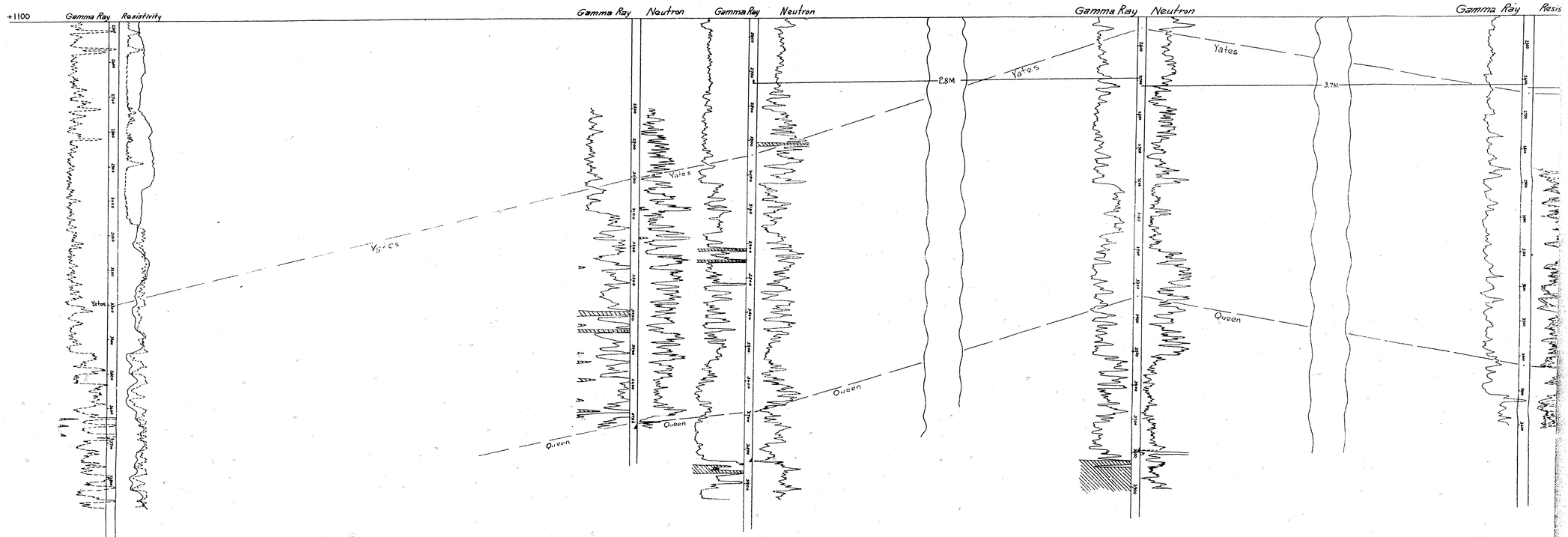
Amerada 1-A WE State
SE NW Sec. 12-21S-35E
Elev. 3584 T.D. 3894

Continental 2-B 18 Meyer
NE NW Sec. 18-21S-36E
Elev. 3654 T.D. 3642

Cont'l. 6-A 18 Meyer
NW NE Sec. 18-21S-36E
Elev. 3643 T.D. 3644

Stanolind 1-I State
SW NW Sec. 22-21S-36E
Elev. 3618 T.D. 3619

Amerada 1 W
SE NE Sec. 19-2
Elev. 3518 T.D.



290

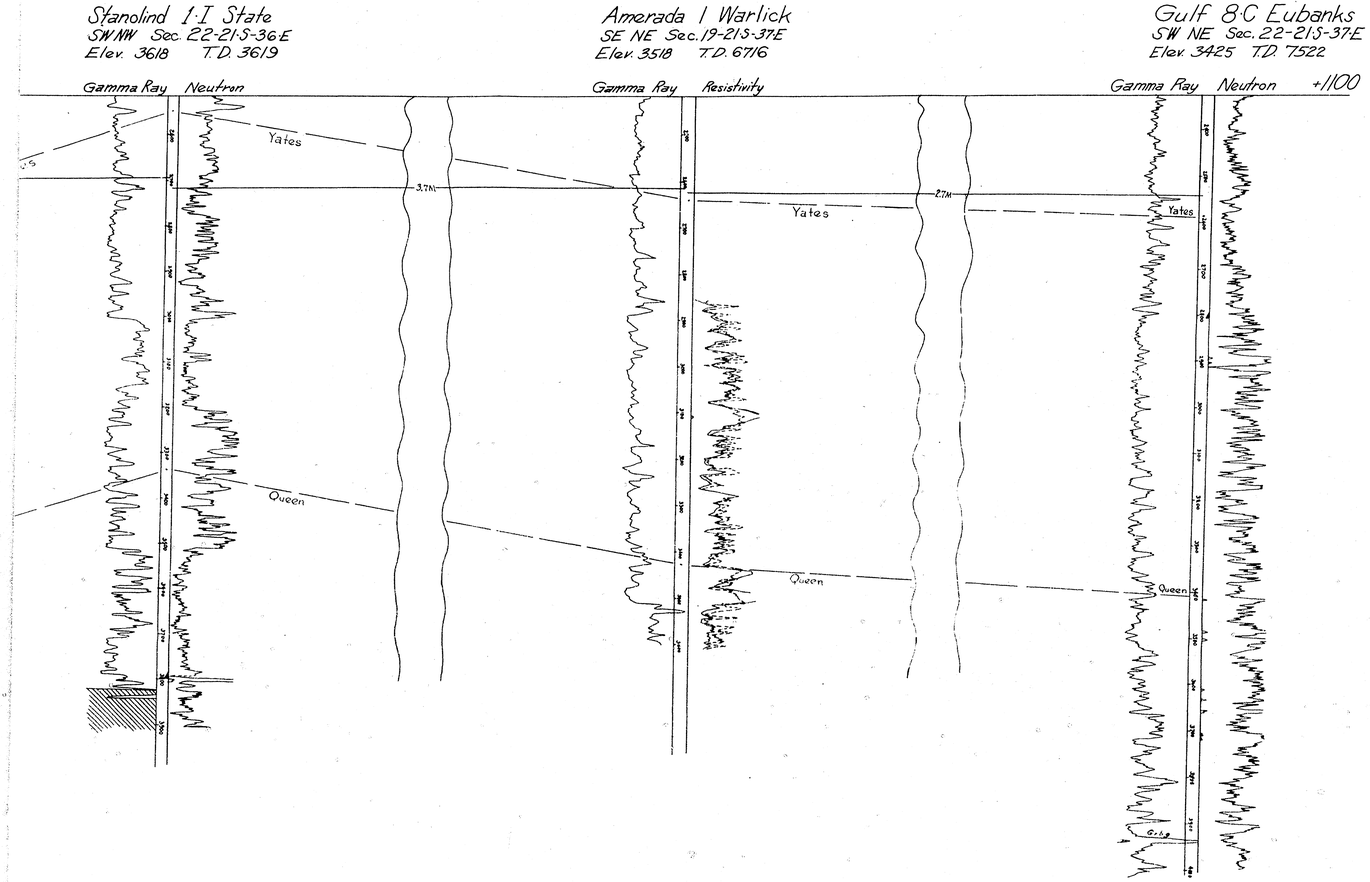


Exhibit No. 5

SE Lea County, New Mexico
West-East Section "B-B'"

Horizontal Scale: 1000'

Vertical Scale: 100'

Phillips
1- Monument
Elev. 3733
Sec. 12, T19S, R36E

Amerada
3- State "T"
Elev. 3676
Sec. 25, T19S, R36E

Amerada
3- State "H"
Elev. 3575
Sec. 1, T20S, R36E

Amerada
3- Byrd
Elev. 3562
Sec. 12, T20S, R36E

Texas Co.
25- State "H"
Elev. 354[illegible]
Sec. 19, T20S, [illegible]

BASE SALT

TOP SALT

BASE YATES

QUEEN

PENROSE

Perf. -3740-3800
T.P. 500
F 662,300 cf/D;
NS 2000 gal;
IP.

Perf. 3820-3885

@ T.D. 3901 w/ 5½ @ 3898; DC 3892;
Perf.; TP.; Nit.;
I.P.F. 2,406,000 cf/D.

Perf. 3413-3488
TP. 850;
Sub Dry

Perf. 3527-3605
T.P. 1450;
F 2,490,000 cf/D

Perf. 3642-3675
T.P. 2251;
F. 1,852,000 cf/D

R.P. @ 3811'
Nit. @ 3579
Nit. @ 3511;
I.P.

@ 4010; TP. 8000; Fire would not take;
@ T.D. 4030 w/ 4½ @ 3813; TP. 8000;
Sub. @ 8/mi (3811-25'(N)); Retr. 2000;
I.P.F. 179 BO/24/hr. (37% & 63%N)
on 48" I.P.
w/ R.P.B. 3814; Re-Comp.:
O.H. N.O. Perf. perfs. 3527-3675; TP.;
I.P.F. 4,359,000 cf/D.

D.S.T. 2515-2719
op. 1 hr.; G-3 min
vol. 33,780 cf/D
Rec. 810' HGIM
N.S.O.

D.S.T. 3055-3220
op. 1 hrs.; G-13 min
Vol. 4,217,000 cf/D
Rec. 2' SIOIM

D.S.T. 3220-3293
op. 1 hrs.; G-3 min
Vol. 3,200,000 cf/D
Rec. 5' Sulf W

D.S.T. 3474-3630
op. 1 hrs.; G-4 min.
Vol. 646,000 cf/D
Rec. 403' GIM

@ T.D. 3727 w/ 7" @ 3717
I.P.F. 107 BOPD

@ T.D. 3875 w/ 6¼ @ 3784
I.P.F. 420 BOPD

@ T.D. 3550 w/ 5½
wash 300; Sand f
I.P.F. 2,412,000 cf

A

A'

NORTH-SOUTH TRAVER
THROUGH MONUMENT & EUNICE FIEL
LEA COUNTY, NEW MEXICO

SHOWING CORRELATION OF THE WHITEHO

REFERENCE DATUM: SEA LEVEL

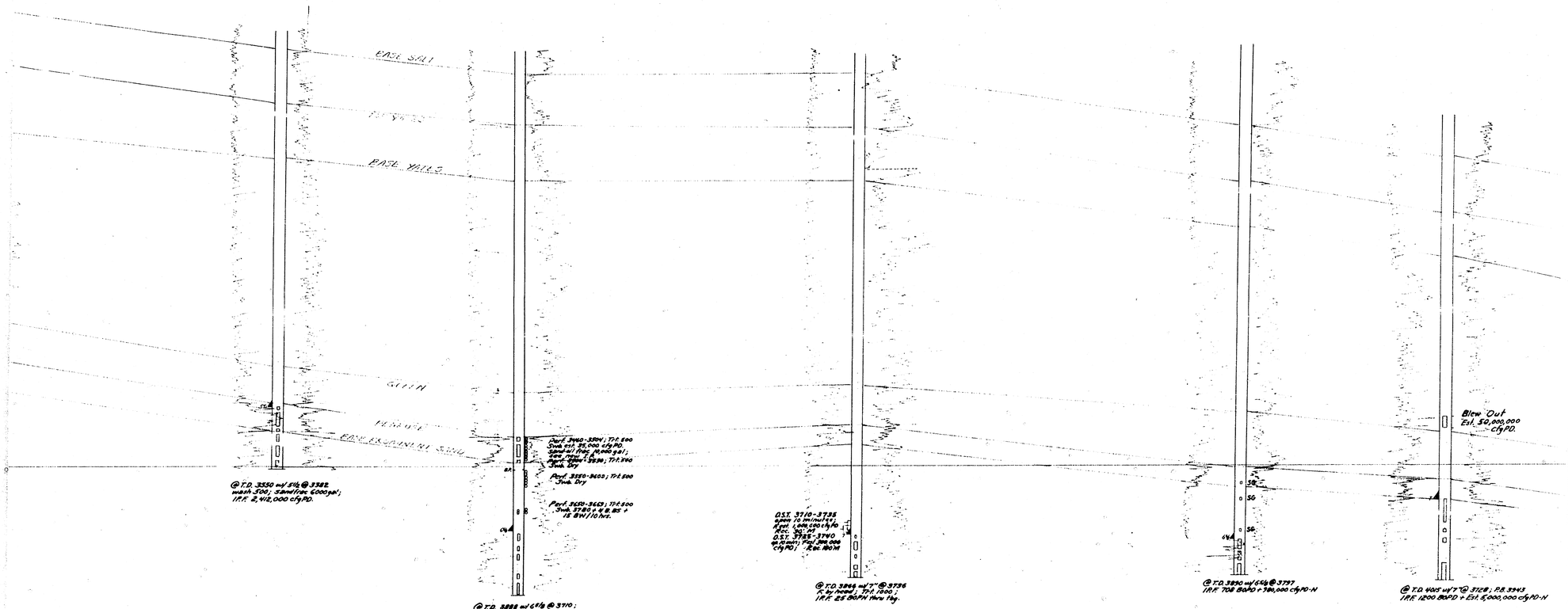
Texas Co.
25- State "H" NCT-3
Elev. 3543
sec. 19, T20S, R37E

Amerada
2- State "W"
Elev. 3532
sec. 30, T20S, R37E

Devonian
2-Heasley State
Elev. 3561
sec. 5, T21S, R36E

Amerada
4- Houston
Elev. 3597
sec. 7, T21S, R36E

Atlantic
1- Coleman
Elev. 3632
sec. 17, T21S, R36E



AA'

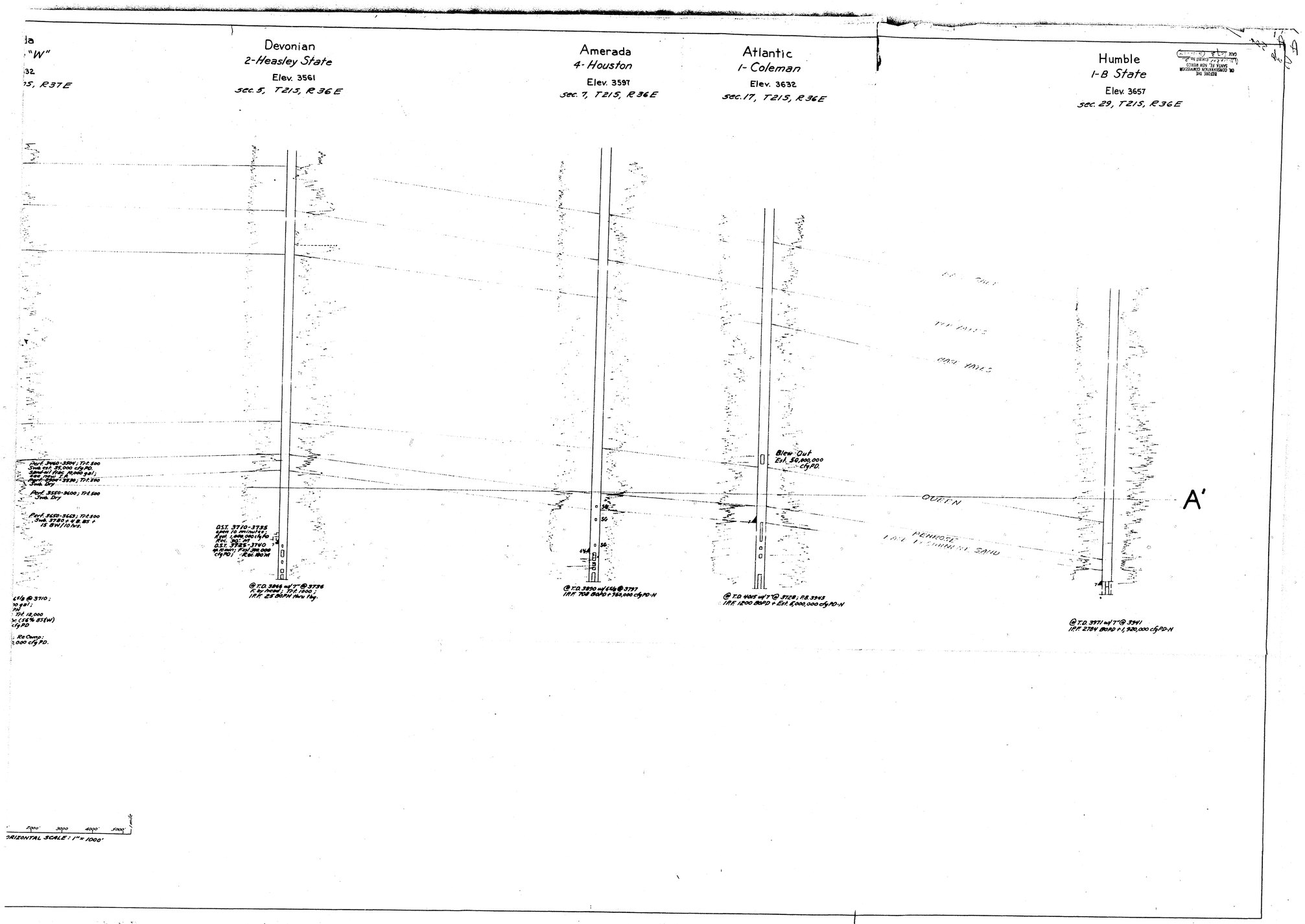
SOUTH TRAVERSE

VUMENT & EUNICE FIELDS

COUNTY, NEW MEXICO

RELATION OF THE WHITEHORSE

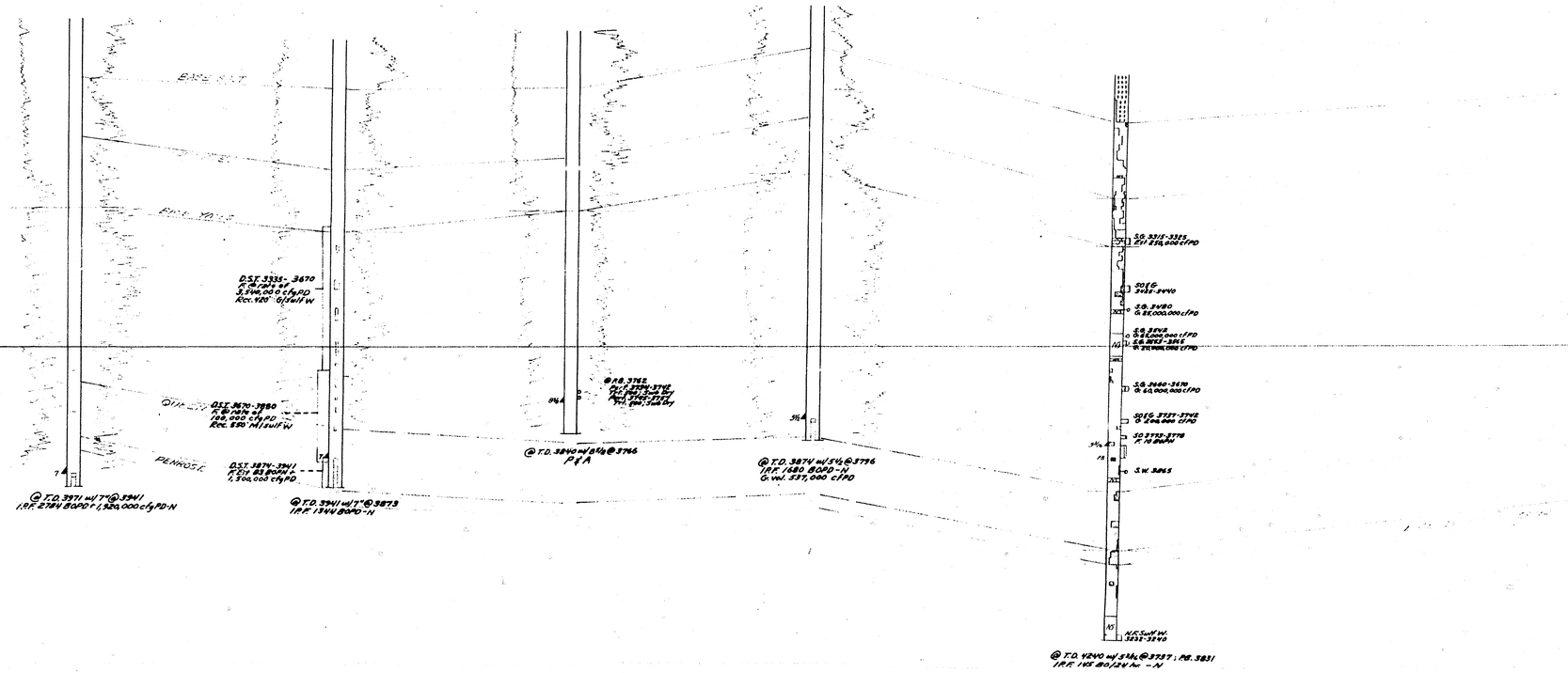
'CE DATUM: SEA LEVEL



Devonian
2-Heasley State
Elev. 3561
sec. 5, T21S, R36E
Amerada
4-Houston
Elev. 3597
sec. 7, T21S, R36E
Atlantic
1-Coleman
Elev. 3632
sec. 17, T21S, R36E
Humble
1-B State
Elev. 3657
sec. 29, T21S, R36E
Blew Out
Est. 50,000,000
cfgPD.
QUEEN
PENROSE
A'
ORIZONTAL SCALE: 1" = 1000'

293

Humble	Texas Co.	Late Oil Co.	Continental	Empire (C.S.O.)
1-B State	*2- Rector*	*2- Rector*	*4-Lockhart B-31*	*1- Closson*
Elev. 3657	Elev. 3613	Elev. 3633	Elev. 3629	Elev. 3568
sec. 29, T21S, R36E	*sec. 30, T21S, R36E*	*sec. 31, T21S, R36E*	*sec. 31, T21S, R36E*	*sec. 6, T22S, R36E*



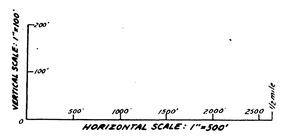
A'A"

NORTH-SOUTH TRAVERSE

THROUGH EUNICE & SOUTH EUNICE FIELDS

LEA COUNTY, NEW MEXICO

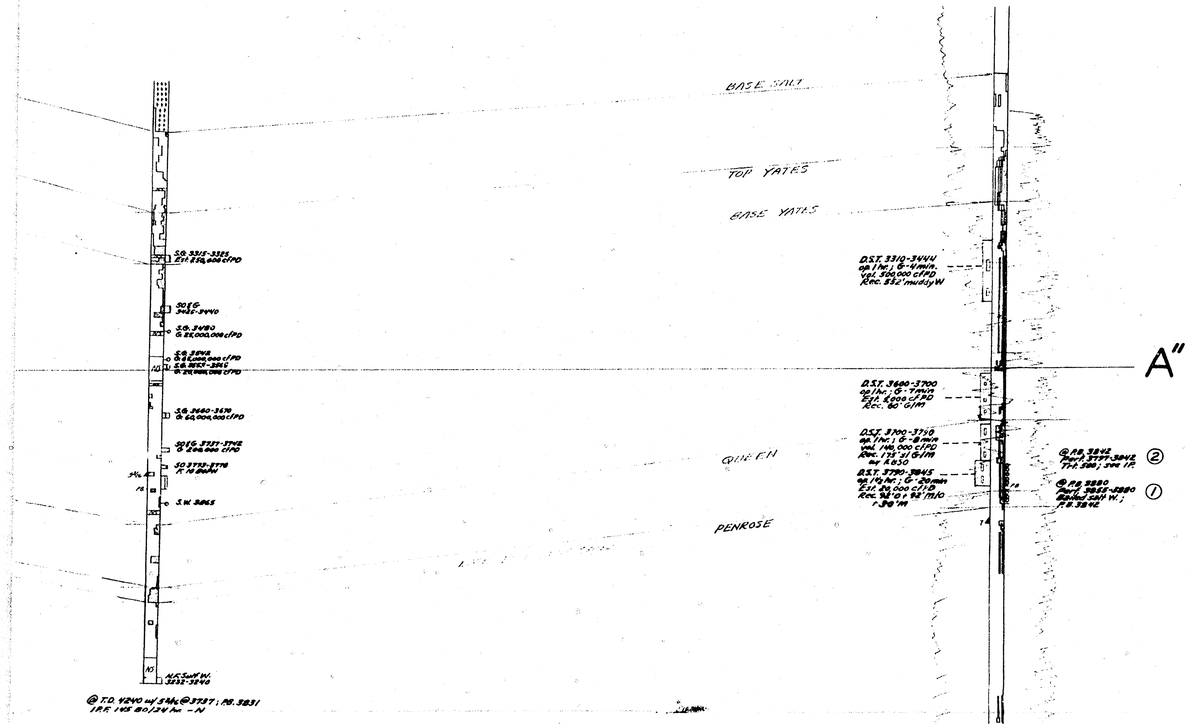
REFERENCE DATUM : SEA LEVEL



294

Empire (C.S.O.)
1- Closson
Elev. 3568
Sec. 6, T22S, R36E

T.P.C.&O.
39- State "A" Ac. 2
Elev. 3583
Sec. 9, T22S, R36E



295

TRAVERSE
INICE FIELDS
XICO
1 LEVEL

Amerada
1- Gaither
Elev. 3632
sec. 34, T19S, R36E

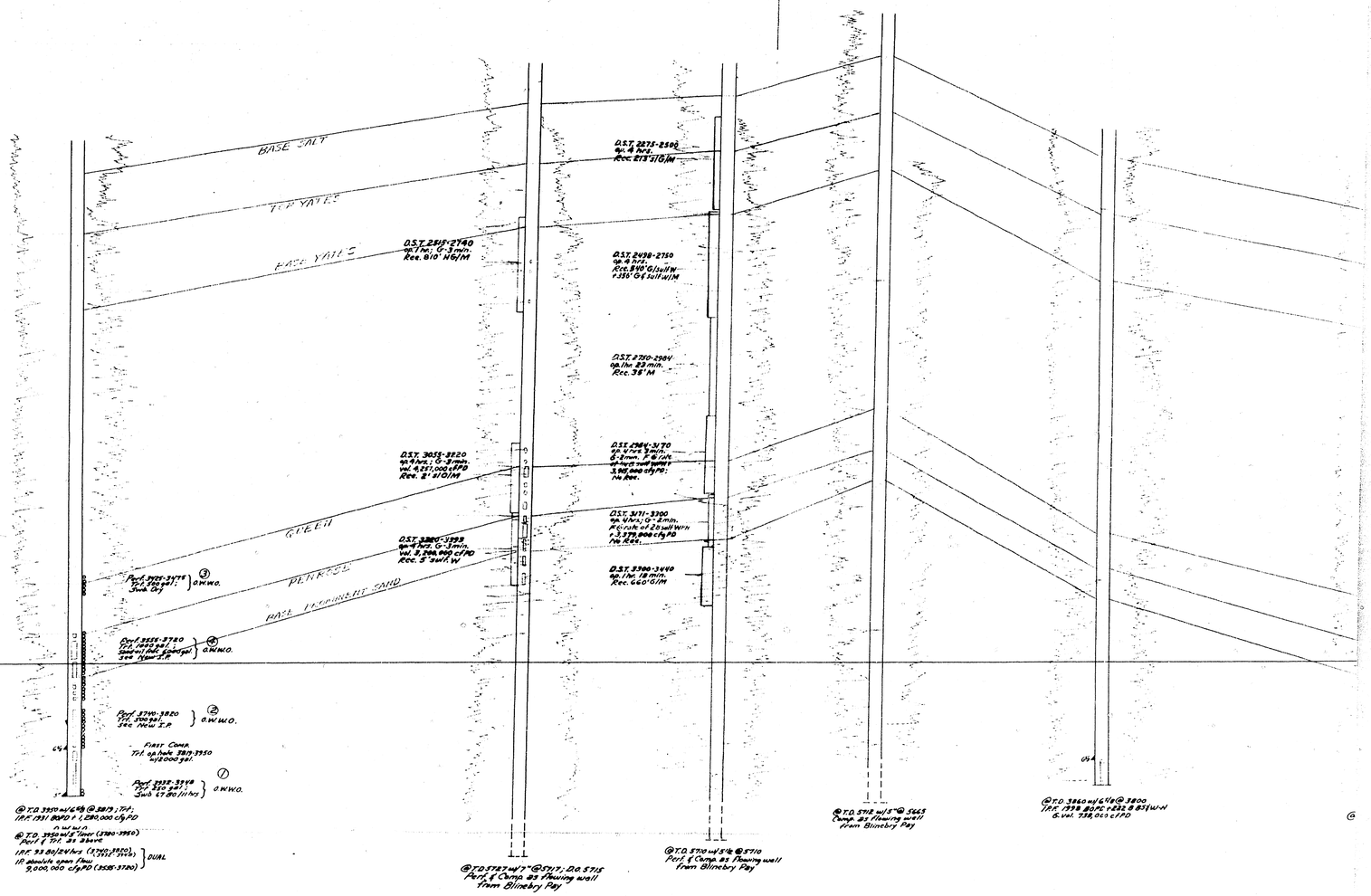
Amerada
3- State "H"
Elev. 3575
sec. 1, T20S, R36E

Amerada
5-Lambert
Elev. 3574
sec. 6, T20S, R37E

Amerada
2-Adkins
Elev. 3567
sec 5, T20S, R37E

Amerada
1- Laughlin
Elev. 3562
sec. 9, T20S, R37E

Se


BASE SALT
TOP YATES
BASE YATES
D.S.T. 2515-2740 op. 1 hr.; G-3 min. Rec. 810' HG/M
D.S.T. 2875-2960 op. 4 hrs. Rec. 215' SI G/M
D.S.T. 2498-2750 op. 4 hrs. Rec. 810' G.S.I.W/M + 330' G & S.I.F. W/M
D.S.T. 2710-2984 op. 1 hr. 23 min. Rec. 38' M
D.S.T. 3035-3220 op. 4 hrs.; G-3 min. vol. 4,221,000 c.f.p.d. Rec. 2' SI O/M
D.S.T. 2984-3170 op. 2 hrs. 3 min. G-2 min. F. & G. rate at 1/4" choke 3,167,000 cu.ft./d. No Rec.
GLEIETA
PENROSE
BASE NONPAY SAND
Perf. 3925-3978 (T.I. 700 gal.) Swb. Dry } ③ D.H.W.O.
Perf. 3528-3780 (T.I. 1650 gal.) Gelled Salt Water Spot 500 Above S.P. } ④ D.H.W.O.
Perf. 3790-3820 (T.I. 700 gal.) Stc. 740 S.P. } ② D.H.W.O.
First Comp. T.I. on hole 3817-3950 w/2000 gal.
Perf. 3932-3978 (T.I. 320 gal.) Swb. 47 BO/11 hrs } ① D.H.W.O.
D.S.T. 3171-3200 op. 4 hrs.; G-2 min. Rec. with 20' salt wtr. r. 3,379,000 c.f.p.d. No Recs.
D.S.T. 3390-3440 op. 1 hr. 18 min. Rec. 660' O/M
B
④ T.D. 3970 w/4½ @ 3819; TI: IP.F. (3317-3970) + 1,280,000 c.f.p.d. D.H.W.O.
① T.D. 3950 w/4½ liner (3780-3950) Perf & Stc. as above
I.P.F. 93 BO/24 hrs (3780-3950), (3932-3978) } DUAL
IP absolute open flow 9,000,000 c.f.p.d. (3528-3780)
③ T.D. 5727 w/7" @ 5717; 120 5715 Perf. & Comp. as Flowing well from Blinebry Pay
② T.D. 5710 w/5½ @ 5710 Perf. & Comp. as Flowing well from Blinebry Pay
④ T.D. 5718 w/5" @ 5665 Comp. as Flowing well from Blinebry Pay
④ T.D. 3860 w/4½ @ 3800 I.P.F. 739 BO & 221 B 83 W+N G.W.I. 738,000 C.F.P.D.
G

296

Exhibit #4

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Case ____ Exhibit No. 4

BB
WEST - EAST
THROUGH MONUMENT
LEA COUNTY, N.
SHOWING CORRELATION OF
REFERENCE DATUM:

297

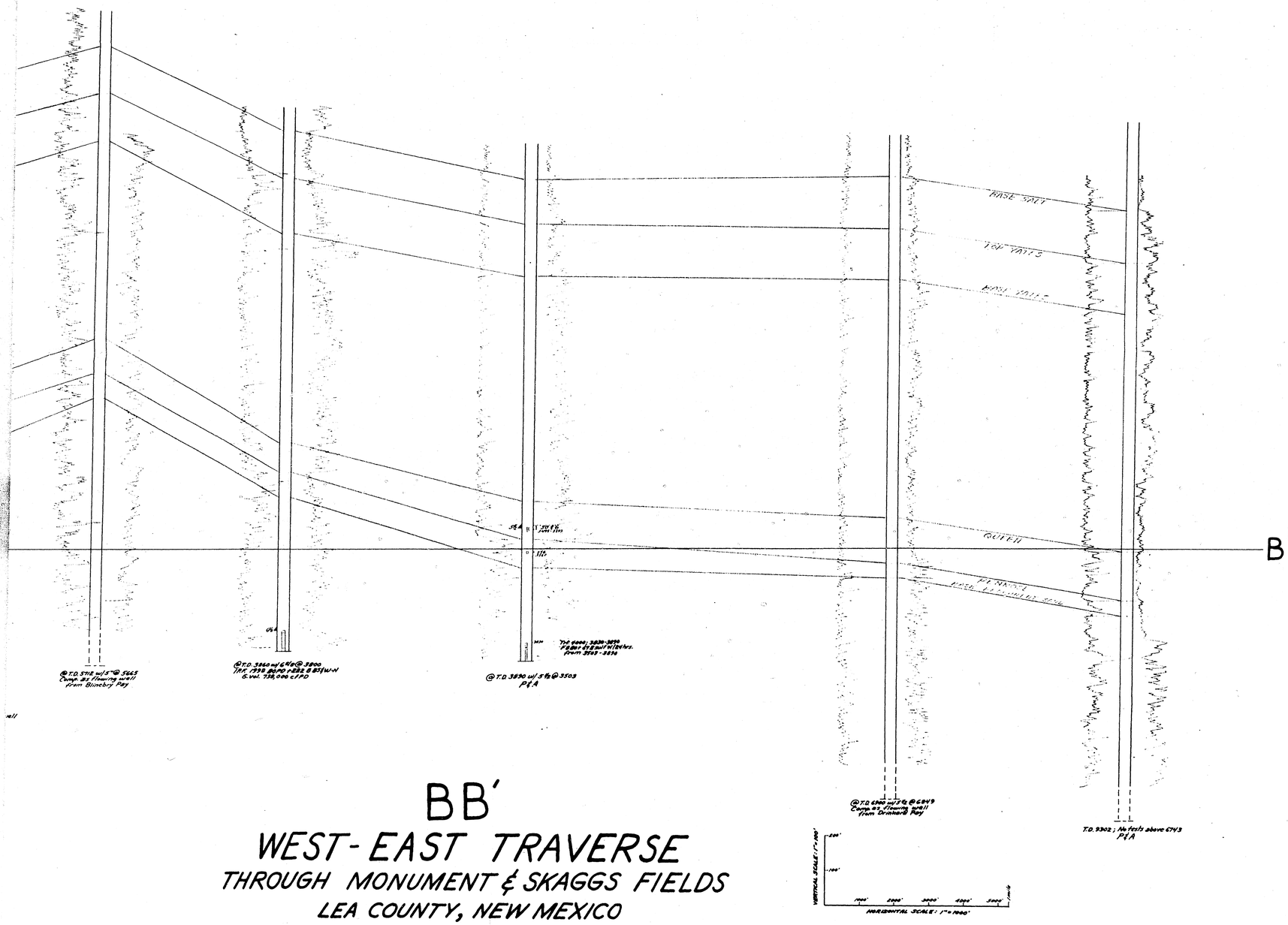
Amerada
2-Adkins
Elev. 3567
Sec 5, T20S, R37E

Amerada
1-Laughlin
Elev. 3562
Sec. 3, T20S, R37E

Carper et. al.
1-Britt B-3
Elev. 3562
Sec. 3, T20S, R37E

Texas Co.
4-Weir "A"
Elev. 3585
Sec. 12, T20S, R37E

Tide Water
1-Sidall
Elev. 3575
Sec. 7, T20S, R38E



BB'

WEST-EAST TRAVERSE

THROUGH MONUMENT & SKAGGS FIELDS

LEA COUNTY, NEW MEXICO

SHOWING CORRELATION OF THE WHITEHORSE

REFERENCE DATUM: SEA LEVEL

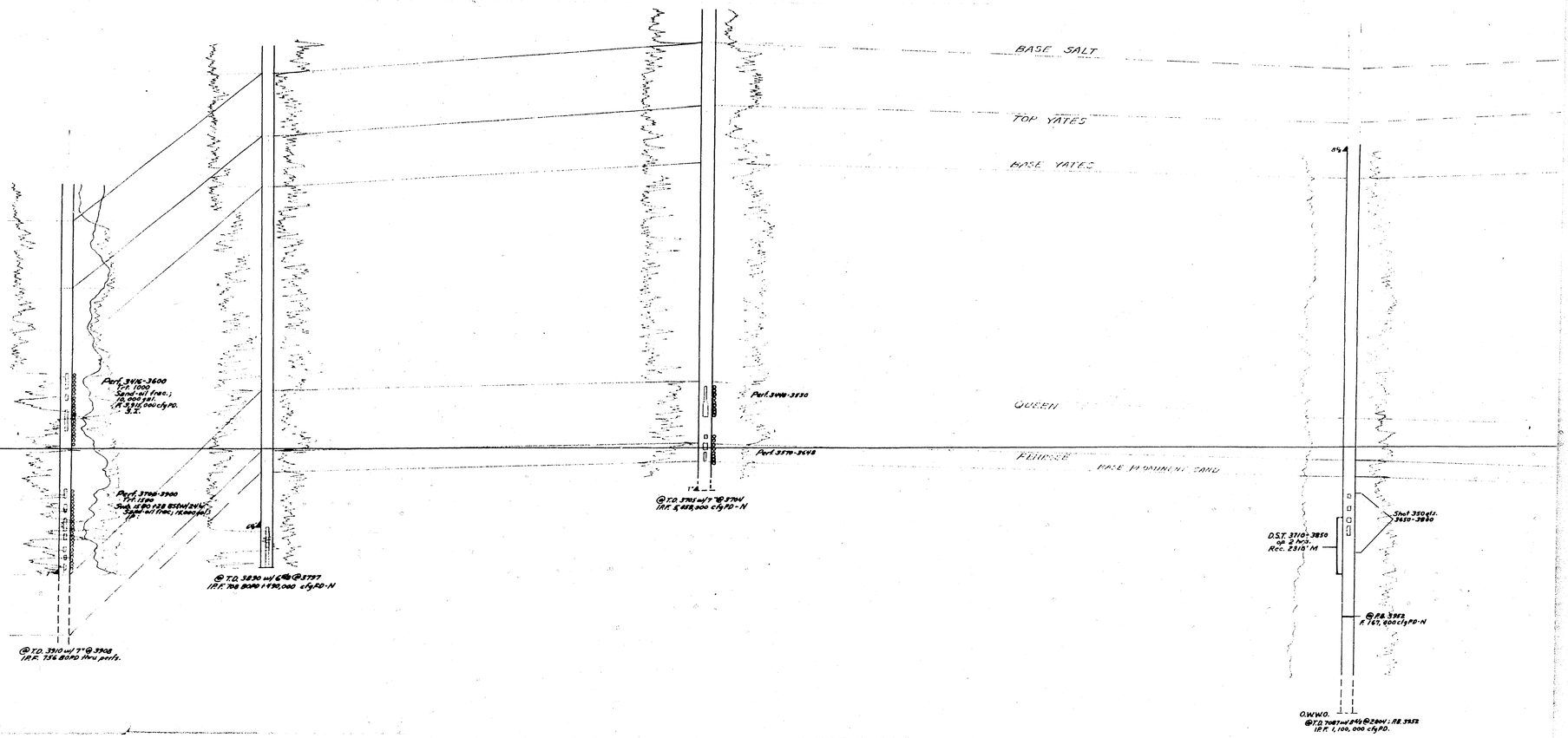
Amerada
2-State WE"A"
Elev. 3593
Sec. 12, T21S, R35E

Amerada
4-Houston
Elev. 3597
Sec. 7, T21S, R36E

Sinclair
9-Adkins
Elev. 3599
Sec. 9, T21S, R36E

Tide Water
1-D Marshall
Elev. 3535
Sec. 13, T21S, R36E

C



CC'

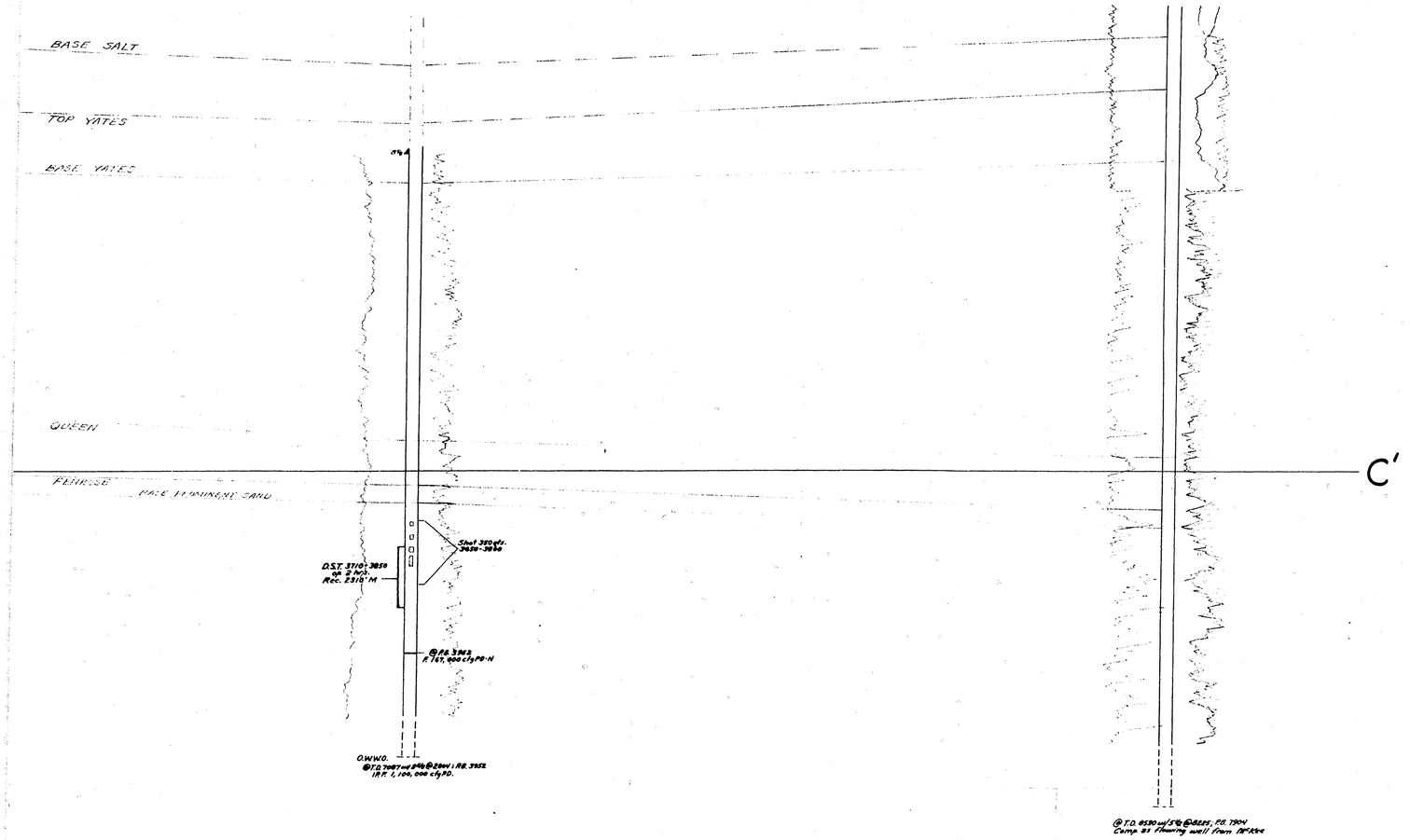
WEST-EAST TRAVERSE

THROUGH EUNICE & PENROSE-SKELLY FIELDS
LEA COUNTY, NEW MEXICO
SHOWING CORRELATION OF THE WHITEHORSE
REFERENCE DATUM: SEA LEVEL

VERTICAL SCALE: 1"=100'
HORIZONTAL SCALE: 1"=1000'

Tide Water
I-O Marshall
Elev. 3535
Sec. 13, T21S, R36E

Amerada
5- State "DA"
Elev. 3474
Sec. 16, T21S, R37E



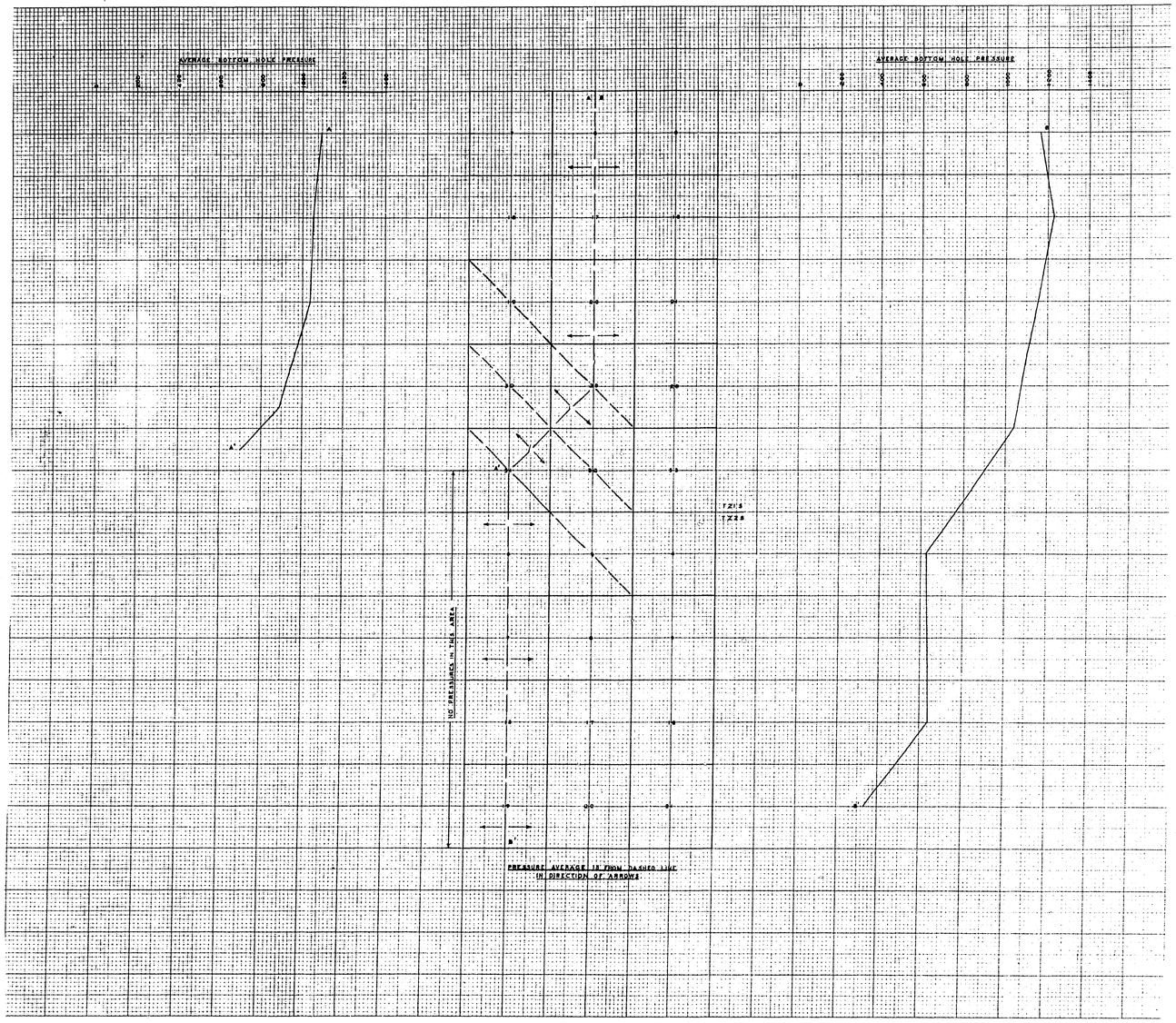
299

AVERSE
T-SKELLY FIELDS
V MEXICO
E WHITEHORSE
TA LEVEL

VERTICAL SCALE: 1"=100'
200'
100'
1000' 2000' 3000' 4000' 5000' 1 mile
HORIZONTAL SCALE: 1"=1000'

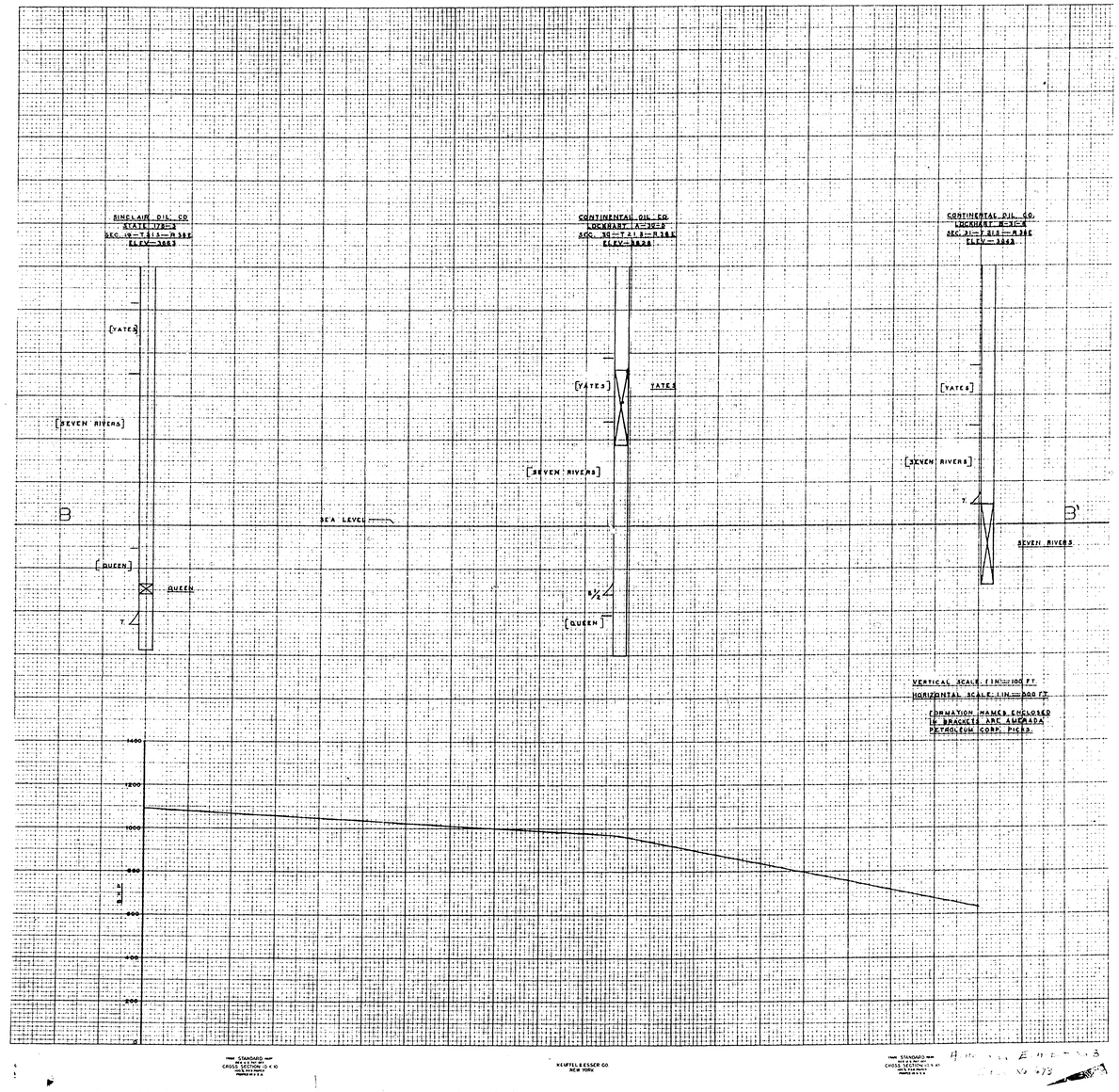
Exhibit # 5

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Exhibit No. 5
CASE 671
5-11-54

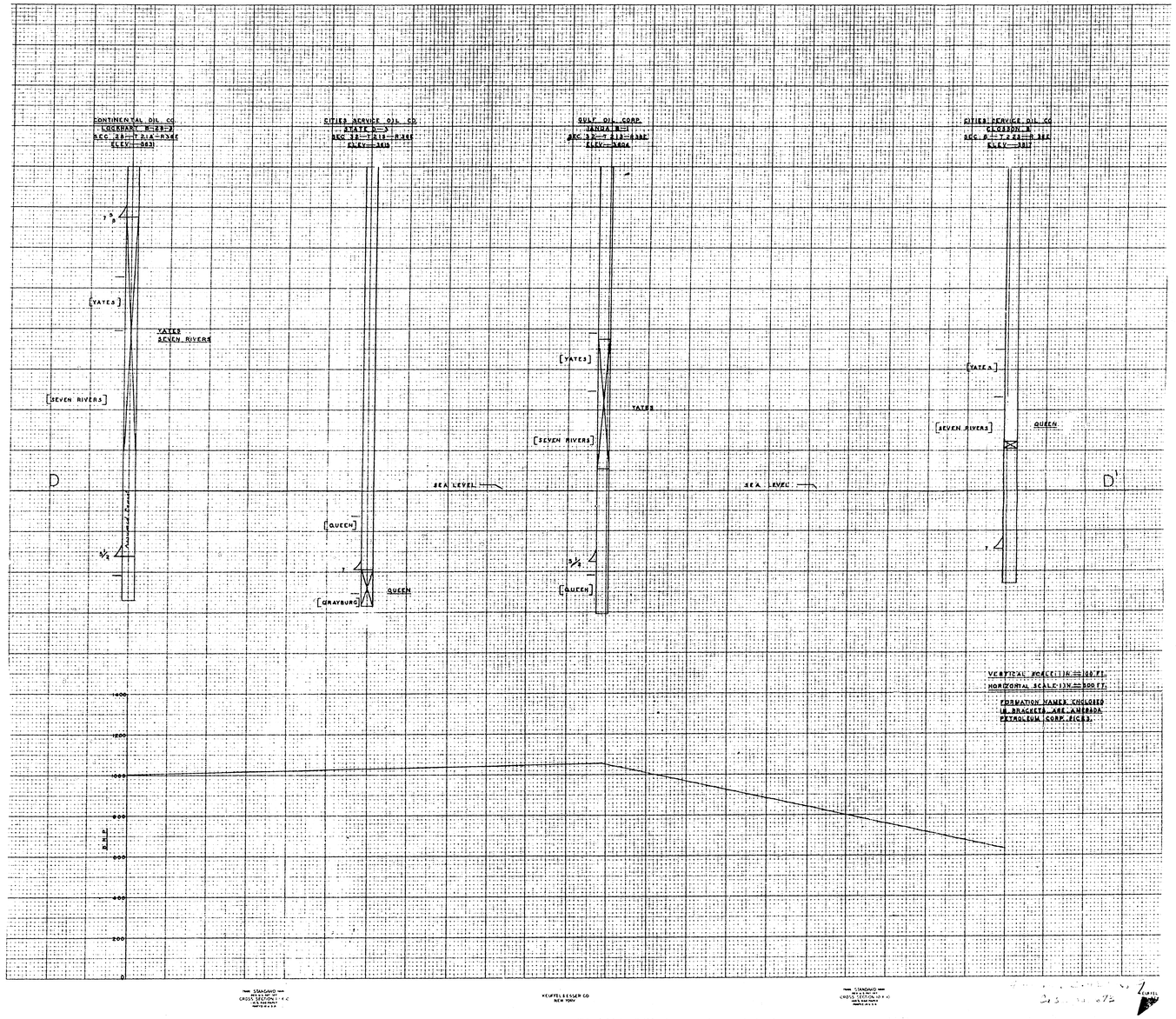

AVERAGE BOTTOM HOLE PRESSURE
AVERAGE BOTTOM HOLE PRESSURE
A
A'
B
B'
1Z18
1X28
NO PRESSURES IN THIS AREA
PRESSURE AVERAGE IS FROM DASHED LINE IN DIRECTION OF ARROWS

300

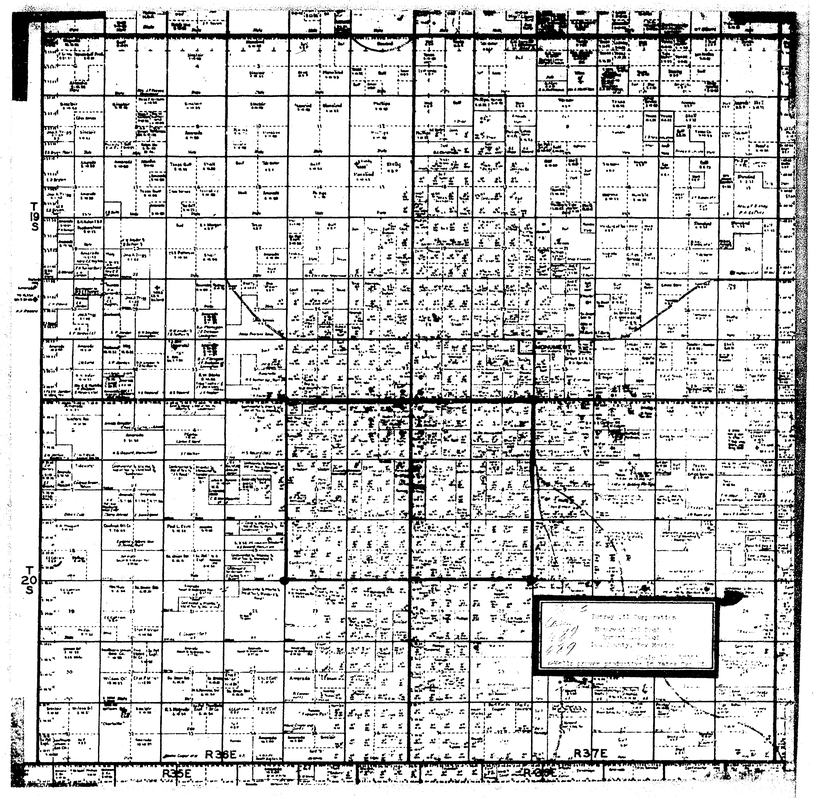
301



STANDARD
CROSS SECTION 10 X 10
KEUFFEL & ESSER CO.
NEW YORK


CONTINENTAL OIL CO.
LOCKHART B-28-2
SEC. 28—T 21S—R 36E
ELEV—3831
CITIES SERVICE OIL CO.
STATE D-3
SEC. 33—T 21S—R 36E
ELEV—3815
GULF OIL CORP.
JANDA B-1
SEC. 32—T 21S—R 36E
ELEV—3804
CITIES SERVICE OIL CO.
CLOSSON B
SEC. 6—T 22S—R 36E
ELEV—3817
[YATES]
YATES
SEVEN RIVERS
[SEVEN RIVERS]
[QUEEN]
[GRAYBURG]
QUEEN
SEA LEVEL
D
D'
VERTICAL SCALE: 1 IN. = 100 FT.
HORIZONTAL SCALE: 1 IN. = 500 FT.
FORMATION NAMES ENCLOSED IN BRACKETS ARE AMERADA PETROLEUM CORP. PICKS.
1400
1200
1000
800
600
400
200
0
STANDARD
CROSS SECTION 1-4-C
KEUFFEL & ESSER CO.
NEW YORK

302



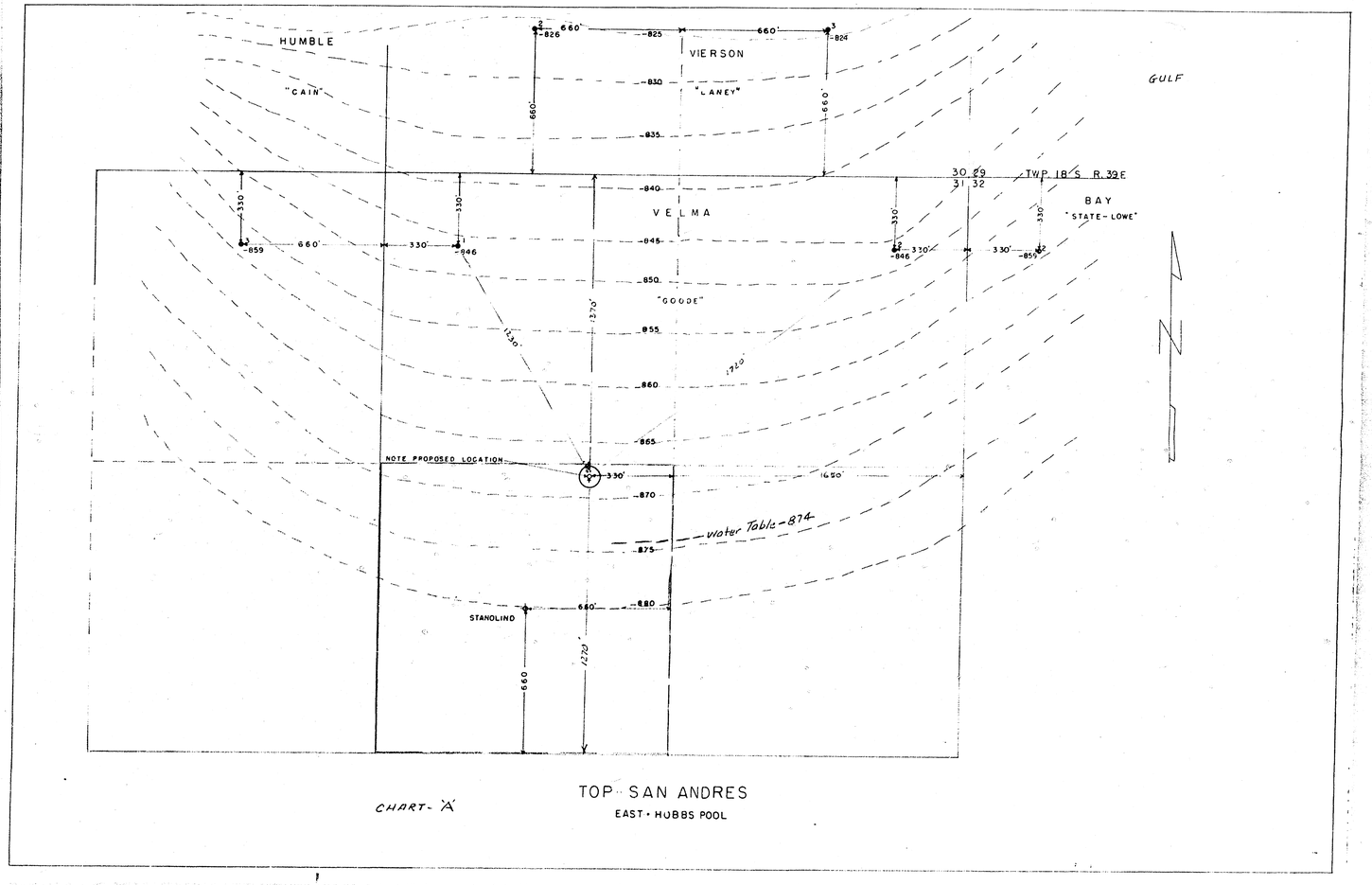


CHART-A

TOP SAN ANDRES

EAST • HUBBS POOL

303

R-37-E

T 26 S

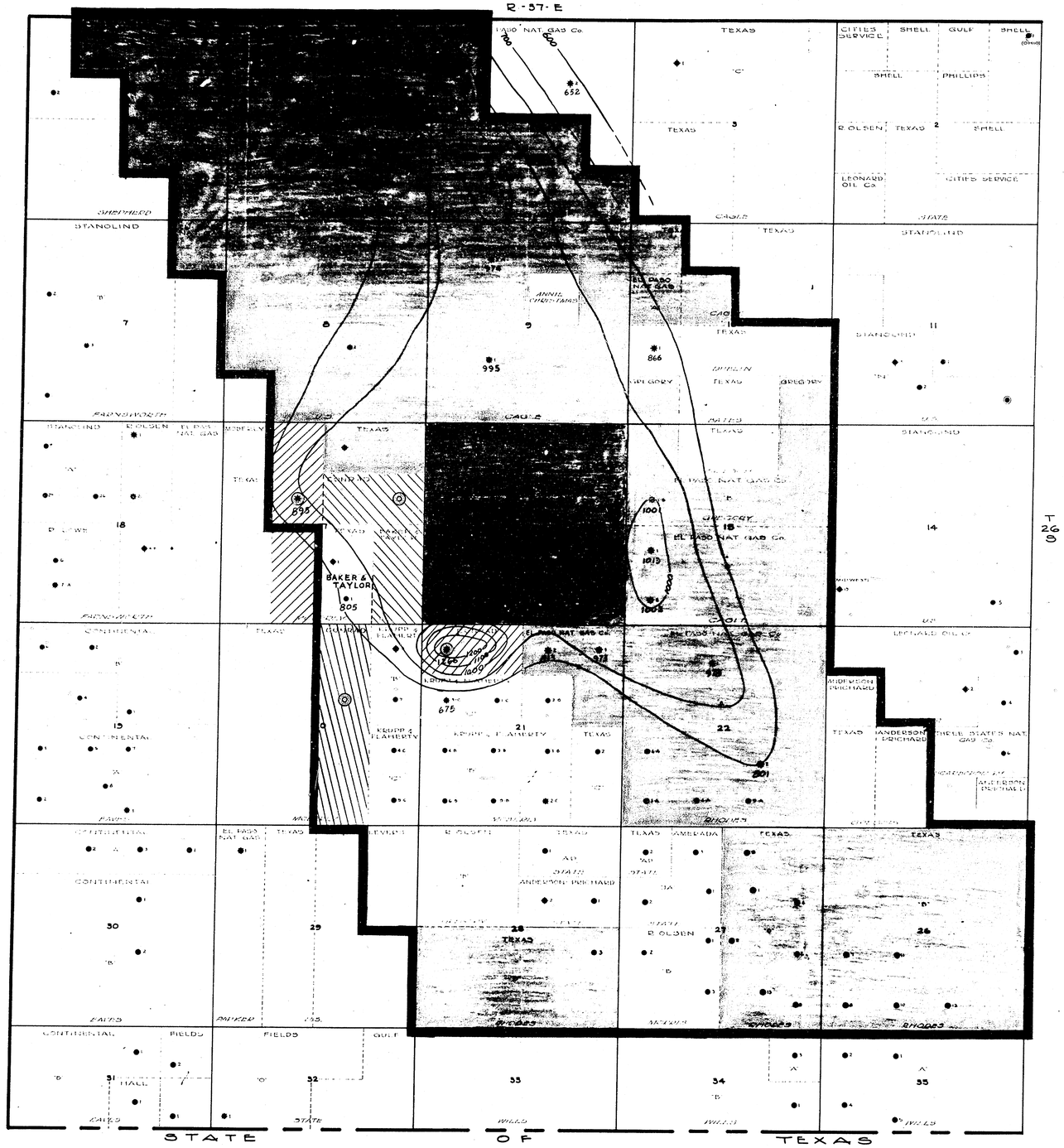
304

STATE OF TEXAS

ISOBARIC MAP
MAY 1951

EP Ex 2
680, 681, 682, 683

305



ISOBARIC MAP
OCTOBER 1953

E.P. Ex 3
Cases 680, 681
682, 683

R 37 E

T 26 S

306

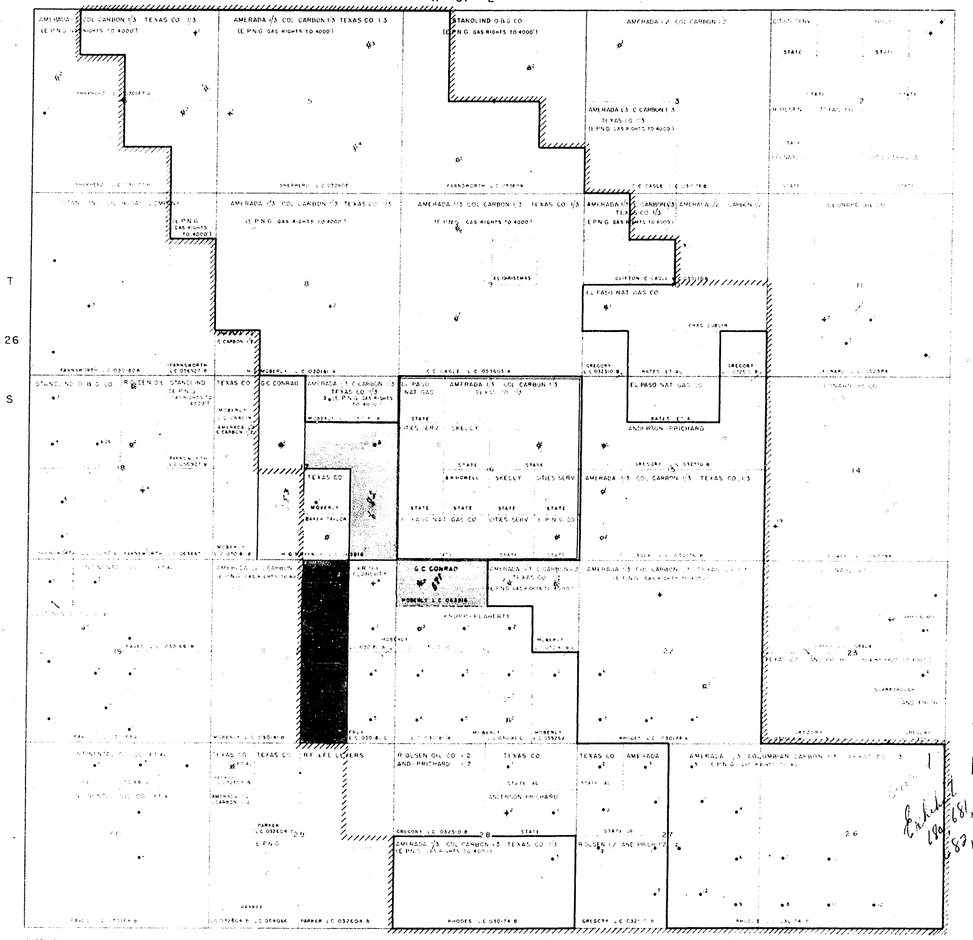
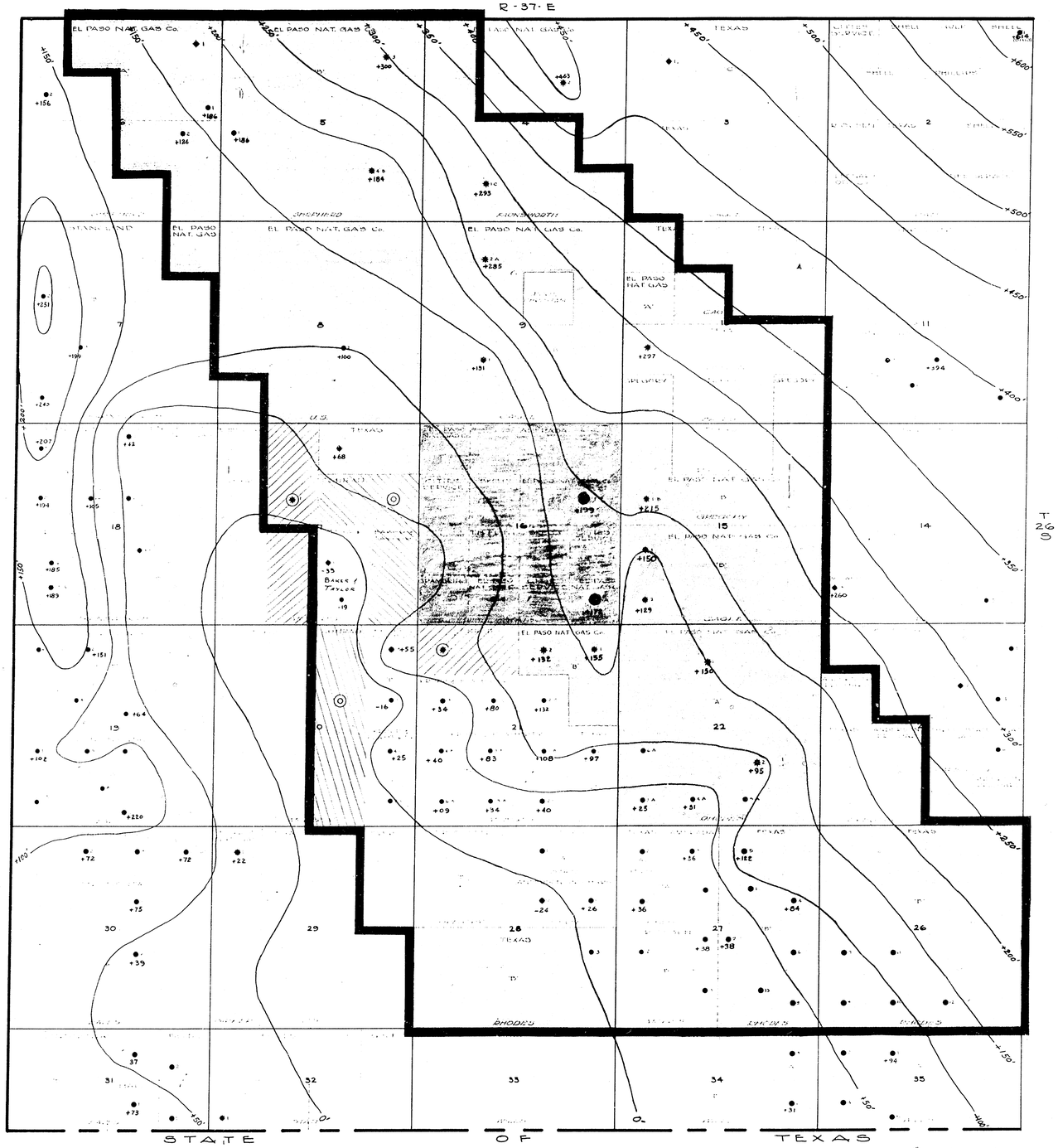
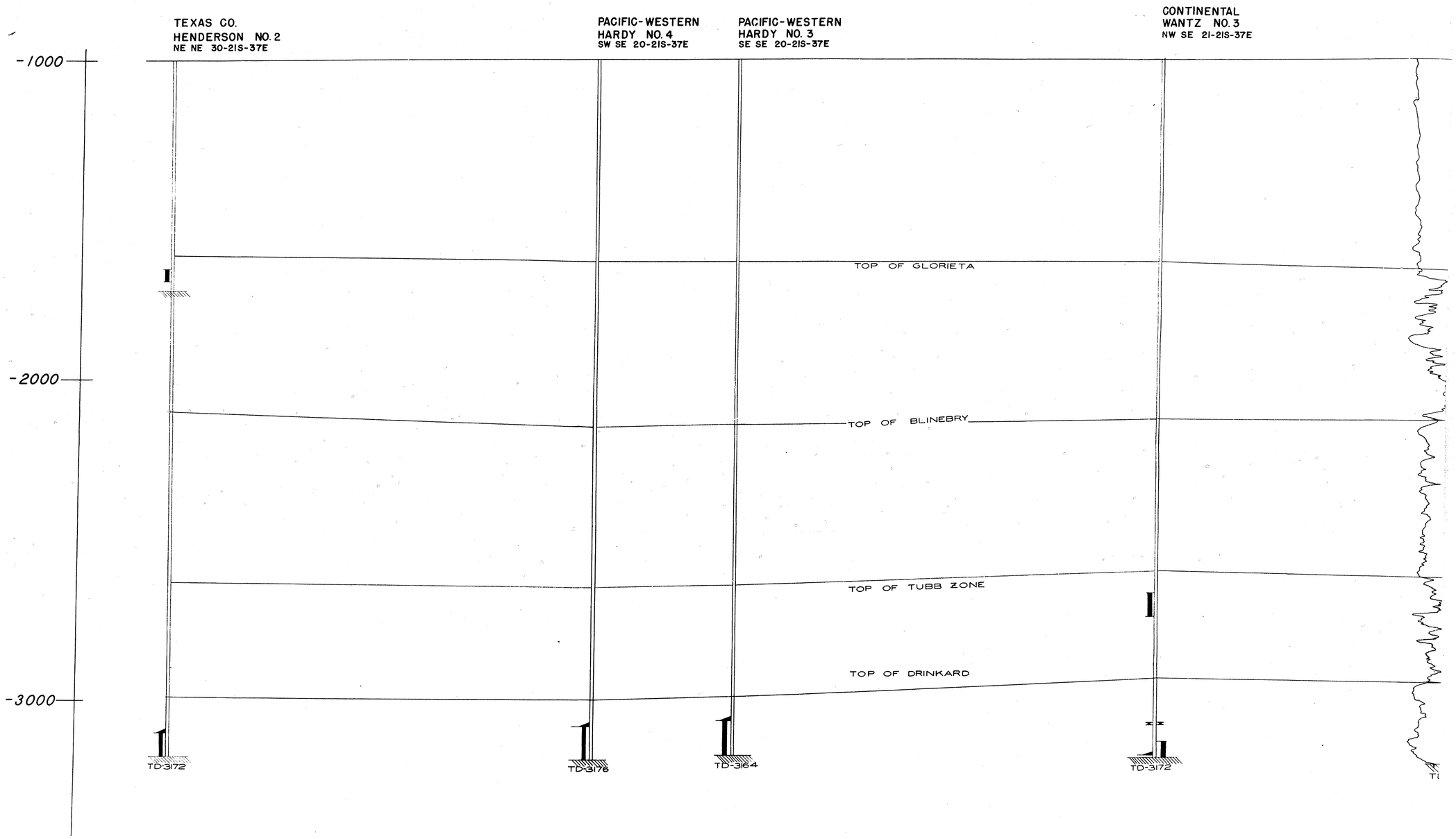


Exhibit "A" 680, 681, 682, 683

307



STRUCTURE MAP
TOP YATES


TEXAS CO.
HENDERSON NO. 2
NE NE 30-21S-37E
PACIFIC-WESTERN
HARDY NO. 4
SW SE 20-21S-37E
PACIFIC-WESTERN
HARDY NO. 3
SE SE 20-21S-37E
CONTINENTAL
WANTZ NO. 3
NW SE 21-21S-37E
-1000
-2000
-3000
TOP OF GLORIETA
TOP OF BLINEBRY
TOP OF TUBB ZONE
TOP OF DRINKARD
TD-3172
TD-3176
TD-3164
TD-3172

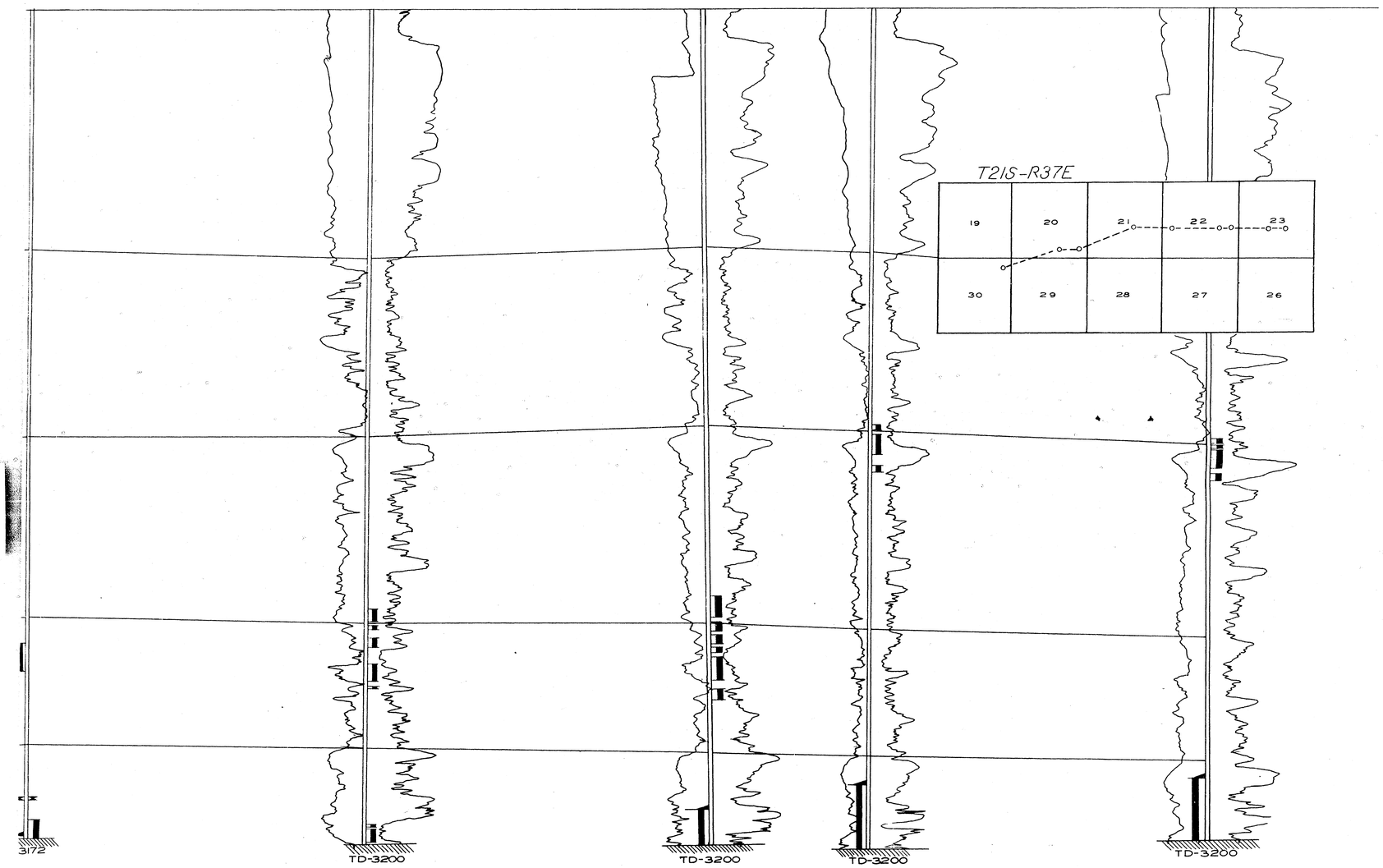
CONTINENTAL
WANTZ NO. 3
NW SE 21-21S-37E

SHELL
TURNER NO. 2
NW SW 22-21S-37E

SHELL
TURNER NO. 3
NW SE 22-21S-37E

SHELL
TURNER NO. 5
NE SE 22-21S-37E

SHELL
SARKEYS NO. 2
NE SW 23-21S-37E



309

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
DCC EXHIBIT No. 2
CASE 324

TEXAS CO
ESTLOCK NO 1
NW SW 3-21S-37E
ELEV. 3467

HUMBLE
STATE "V" NO. 9
NE SW 10-21S-37E
ELEV. 3464

HUMBLE
STATE "V" NO. 2
SE SW 10-21S-37E
ELEV. 3474

TIDE WATER
STATE "S" NO. 2
NE NW 15-21S-37E
ELEV. 3456

CITIES SERVICE
STATE "S" NO. 5
SE NW 15-21S-37E
ELEV. 3458

SHELL
ARGO NO. 3
NE SW 15-21S-37E
ELEV 3445

SHELL
ARGO NO. 1
SW SW 15-21S-37E
ELEV. 3444

SHE
ARG
NW N
ELEV

-1000

1500

TOP GLORIETA

PADDOCK PAY
OIL

2000

"TOP CLEAR FORK" (BLINEBRY)

BLINEBRY PAY
GAS

2500

"TOP TUBB MARKER" (DRINKARD SANDY MEMBER)

TUBB PAY
GAS

3000

"TOP DRINKARD MARKER"

DRINKARD-VIVIAN PAY
OIL

OIL WELL

P & A

GAS-GAS DUAL

GAS-OIL DUAL

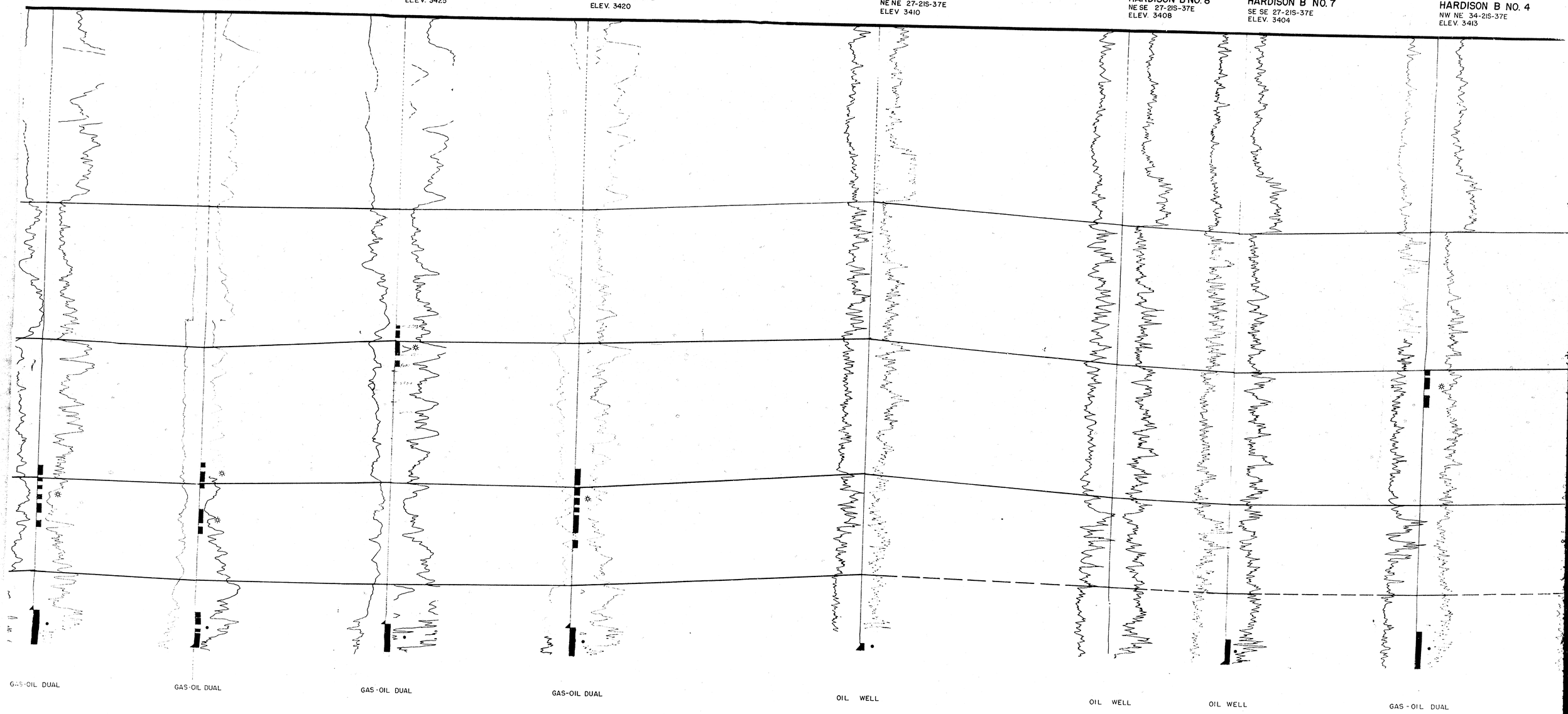
GAS-OIL DUAL

GAS-OIL DUA

COMPLETED IN
ELLENBURGER

COMPLETED IN
SIMPSON

310


SHELL
ARGO NO. 1
SW SW 15-21S-37E
ELEV. 3444
SHELL
ARGO NO. A-1
NW NW 22-21S-37E
ELEV. 3434
SHELL
ARGO NO. A-5
SE NW 22-21S-37E
ELEV. 3425
SHELL
TURNER NO. 3
NW SE 22-21-37E
ELEV. 3420
CONTINENTAL
LOCKHART A-27 NO. 5
NE NE 27-21S-37E
ELEV 3410
HUMBLE
HARDISON B NO. 8
NE SE 27-21S-37E
ELEV. 3408
HUMBLE
HARDISON B NO. 7
SE SE 27-21S-37E
ELEV. 3404
HUMBLE
HARDISON B NO. 4
NW NE 34-21S-37E
ELEV. 3413
GAS-OIL DUAL
GAS-OIL DUAL
GAS-OIL DUAL
GAS-OIL DUAL
OIL WELL
OIL WELL
OIL WELL
GAS-OIL DUAL

311

HUMBLE
HARDISON B NO. 8
…E SE 27-21S-37E
…LEV. 3408

HUMBLE
HARDISON B NO. 7
SE SE 27-21S-37E
ELEV. 3404

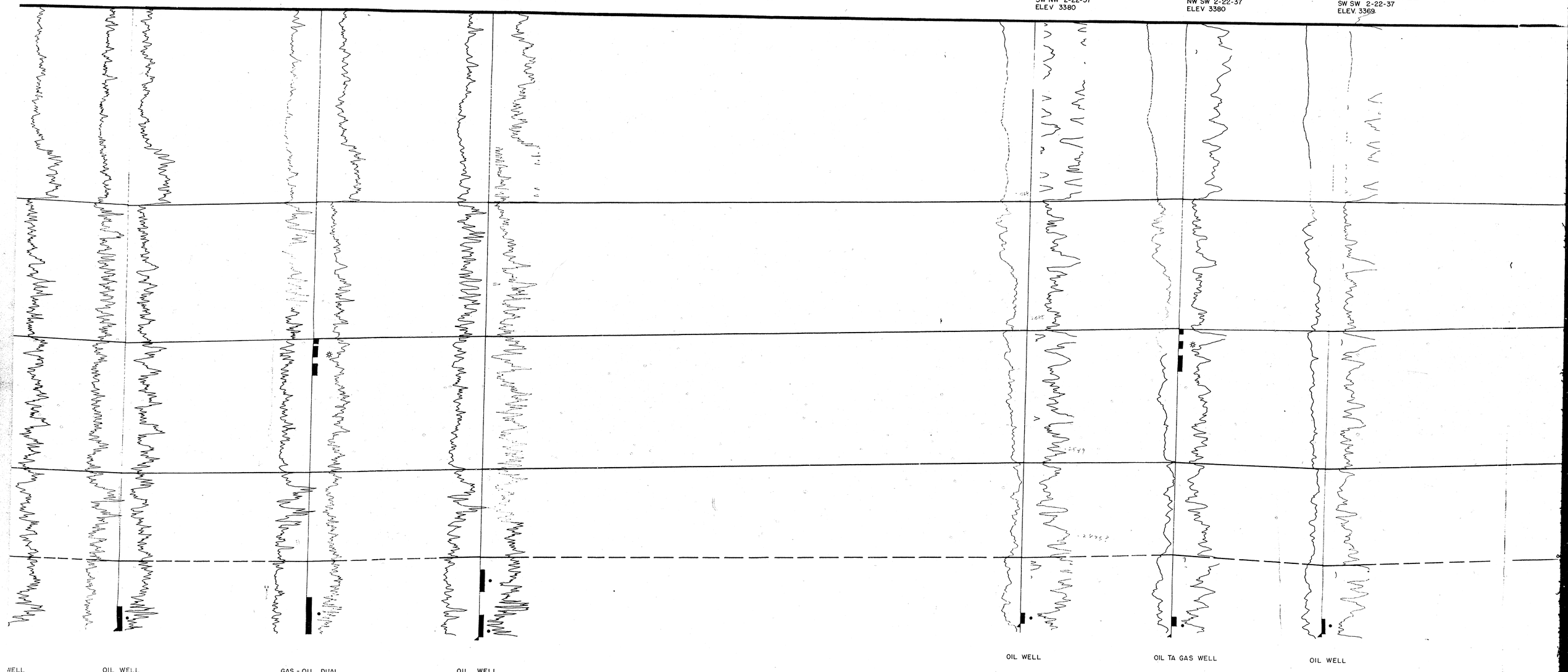
HUMBLE
HARDISON B NO. 4
NW NE 34-21S-37E
ELEV. 3413

HUMBLE
HARDISON B NO. 3
SW NE 34-21S-37E
ELEV. 3415

HUMBLE
STATE "S" NO. 20
SW NW 2-22-37
ELEV 3380

HUMBLE
STATE "S" NO. 21
NW SW 2-22-37
ELEV 3380

HUMBLE
STATE "S" NO. 22
SW SW 2-22-37
ELEV. 3369.



…WELL | OIL WELL | GAS - OIL DUAL | OIL WELL | OIL WELL | OIL TA GAS WELL | OIL WELL

312

OHIO
WORTHAN NO.12
SE NE 11-22S-37E
ELEV. 3354

SAMEDAN
PARKS NO. 6
NW SW 14-22S-37E
ELEV. 3362

SAMEDAN
PARKS NO. 2
SW SW 14-22S-37E
ELEV. 3349

SINCLAIR
BOYD NO. 4
SE NW 23-22S-37E
ELEV. 3334

-1000

TOP GLORIETA

PADDOCK PAY
OIL

UPPER YESO

"TOP CLEAR FORK" (BLINEBRY)

BLINEBRY PAY
GAS

MIDDLE YESO

"TOP TUBB MARKER" (DRINKARD SANDY MEMBER)

TUBB PAY
GAS

"TOP DRINKARD MARKER"

DRINKARD-VIVIAN PAY
OIL

LOWER YESO

GAS-OIL DUAL

GAS WELL
IN OIL POOL

GAS-OIL DUAL

GAS-OIL DUAL

NORTH - SOUTH CROSS SECTION

BLINEBRY - TUBB GAS POOLS

VERTICAL SCALE 1" = 100'
HORIZONTAL SCALE 1" = 500'
APRIL 1954

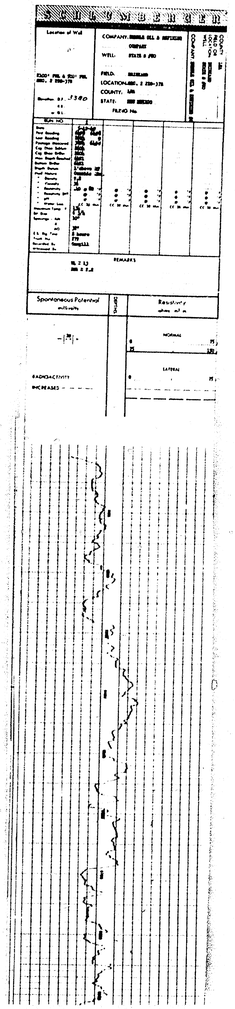
313

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
OCC EXHIBIT No. 3
CASE 764

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
CCC EXHIBIT No. 5
CASE 944

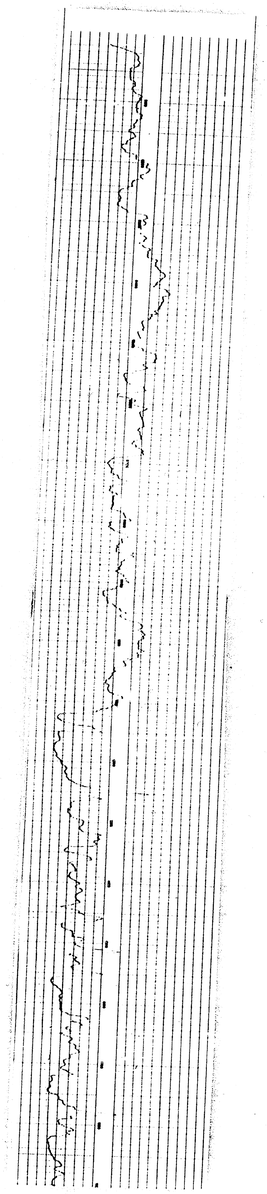
Reproduced By
West Texas Electrical Log Service
1105 Commerce Street
Dallas 1, Texas

REFERENCE No 811 -D



314

315



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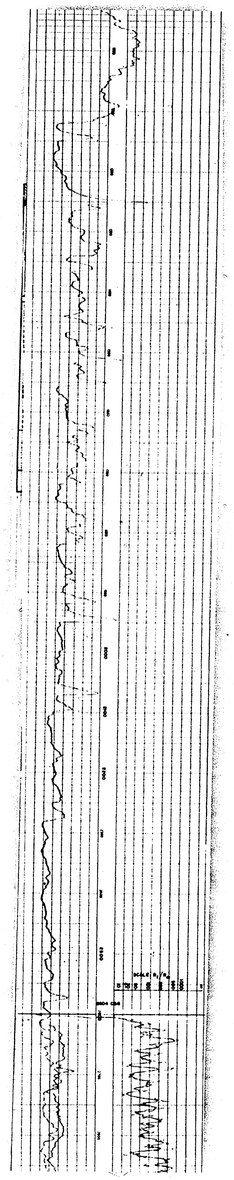

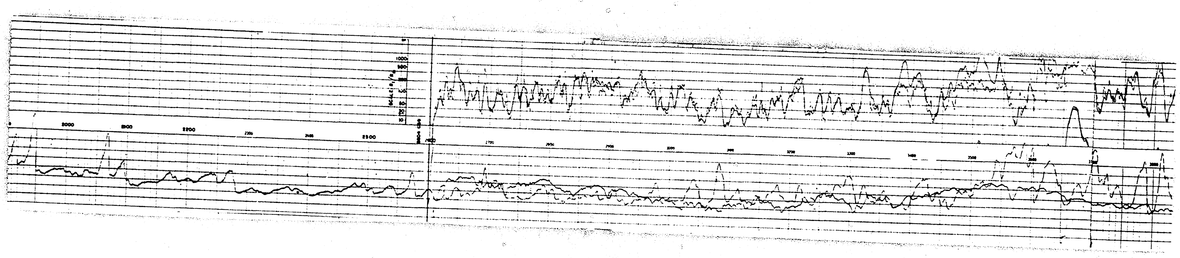

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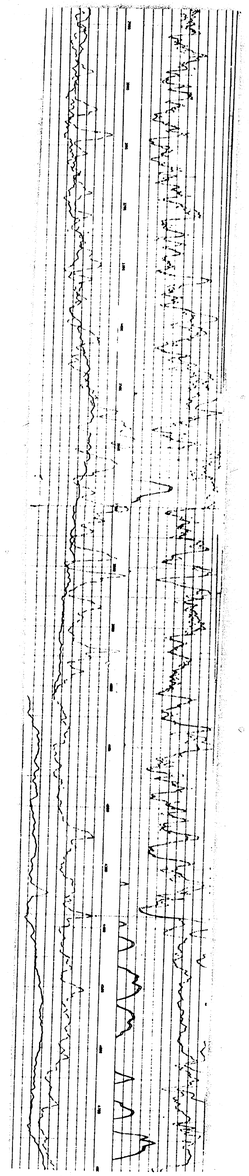

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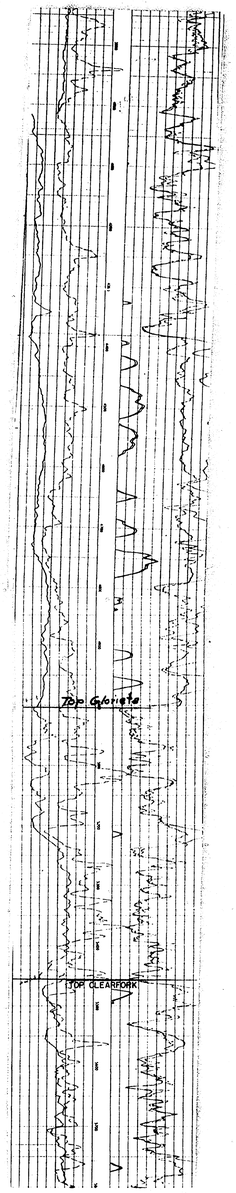
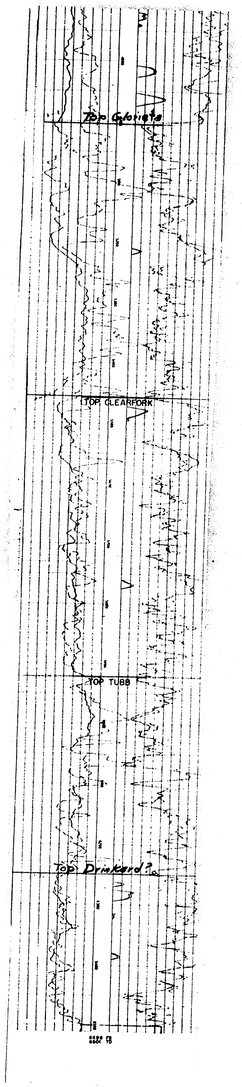




320

321

T-28N R13W

13W

R12W

R11W

11W

T-28N

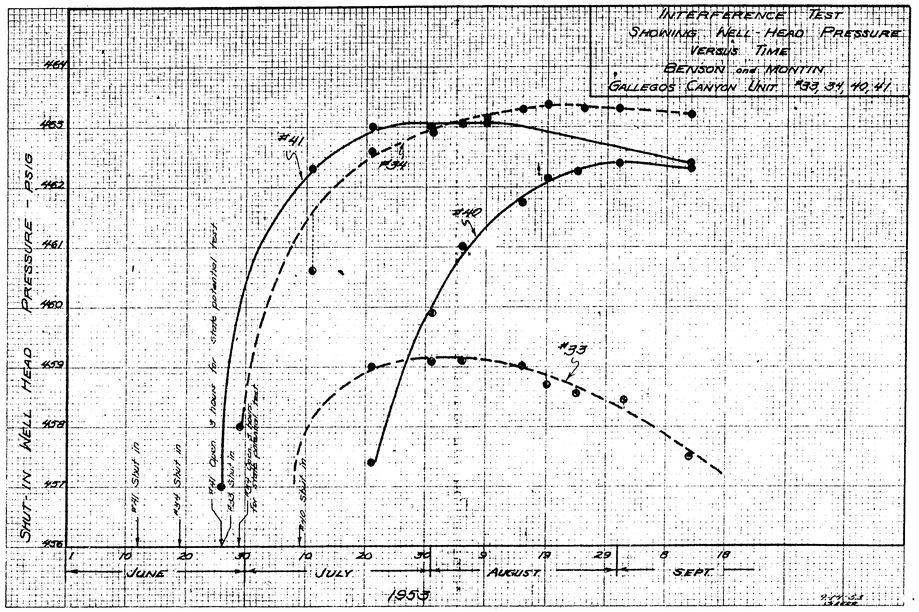
T-27N

Southern Union Gathering

BEFORE THE OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT NO. 1
CASE NO. 464

W. KUTZ CANYON AREA
T-27-28N - R 11-12W
SAN JUAN CO. N. MEXICO

Drawn - 3-6-52
Geology By: John S. Canny Jr.
Revised - 5-15-53
Datum
Contour Interval:



ADA DEARNLEY AND ASSOCIATES

Ada Dearnley • Marianna Meier • Margaret McCaskey • Helen Purcell

605 SIMMS BUILDING • ALBUQUERQUE, NEW MEXICO • Phone 3-6691

STENOTYPE REPORTERS

- CONVENTIONS
- COURT PROCEEDINGS
- DEPOSITIONS
- HEARINGS

NOTARIES PUBLIC

Members NSRA, ASA, SWSRA

File

June 22, 1955

Dear Bill:

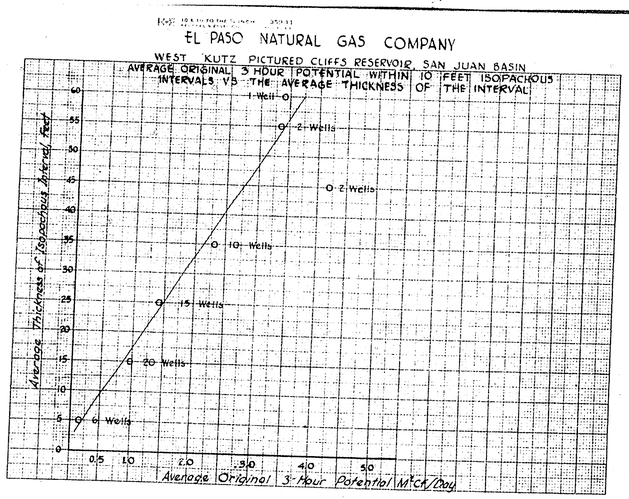
I hope you won't be too upset with me, but the transcript in Case 696 will have to be completely retyped. I don't know what happened to my typist on this one, but it was rather a difficult hearing. However, she has misspelled Mr. Stockmar's name and Trevor Rees-Jones name all the way through. Also in checking the quotations from the previous hearing in Case 696, they weren't too well read into the record and I have checked them all which has caused the re-typing of all of Mr. Smith's legal argument.

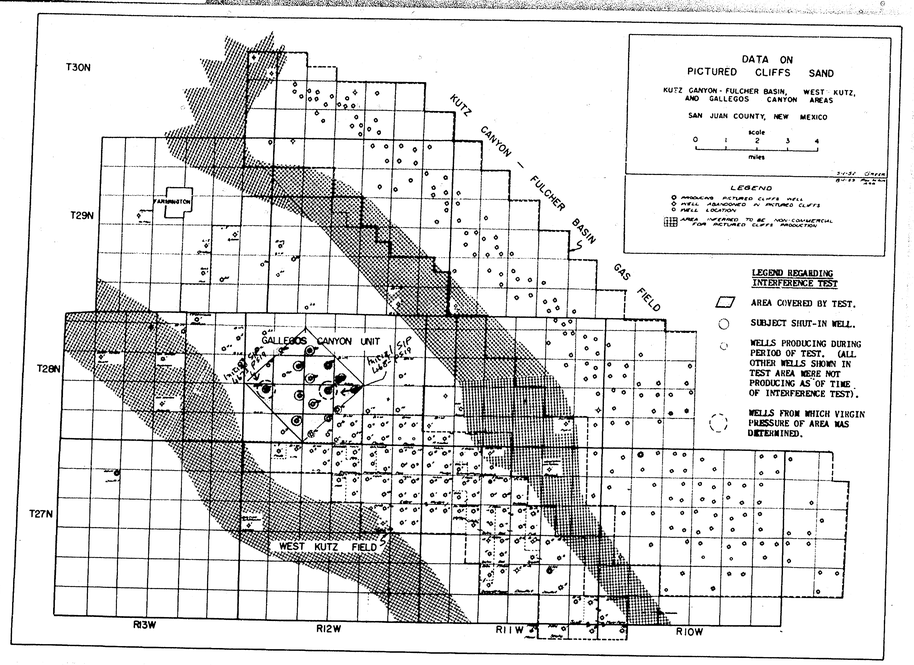
I am sure sorry, but I know you wouldn't want that transcript in your files any more than I do. It sure has been a dog all the way through, taking, typing and reading - but that is what can happen in anything as contentious as that.

See you Tuesday; am sending the transcripts of the last hearing tomorrow and will bring 696 with me unless you call and want me to push it out yet this week.

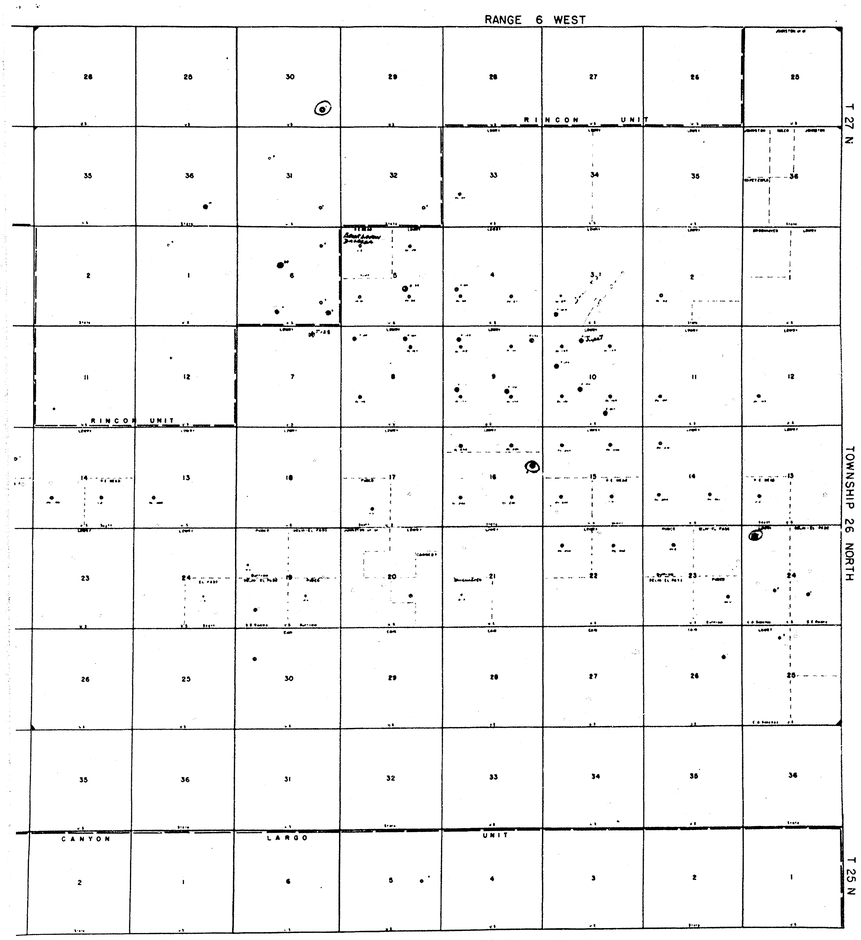
Sincerely,

322





RANGE 6 WEST



LOWRY ET AL OPERATING ACCOUNT

ERKAN AREA, RIO ARRIBA COUNTY, NEW MEXICO

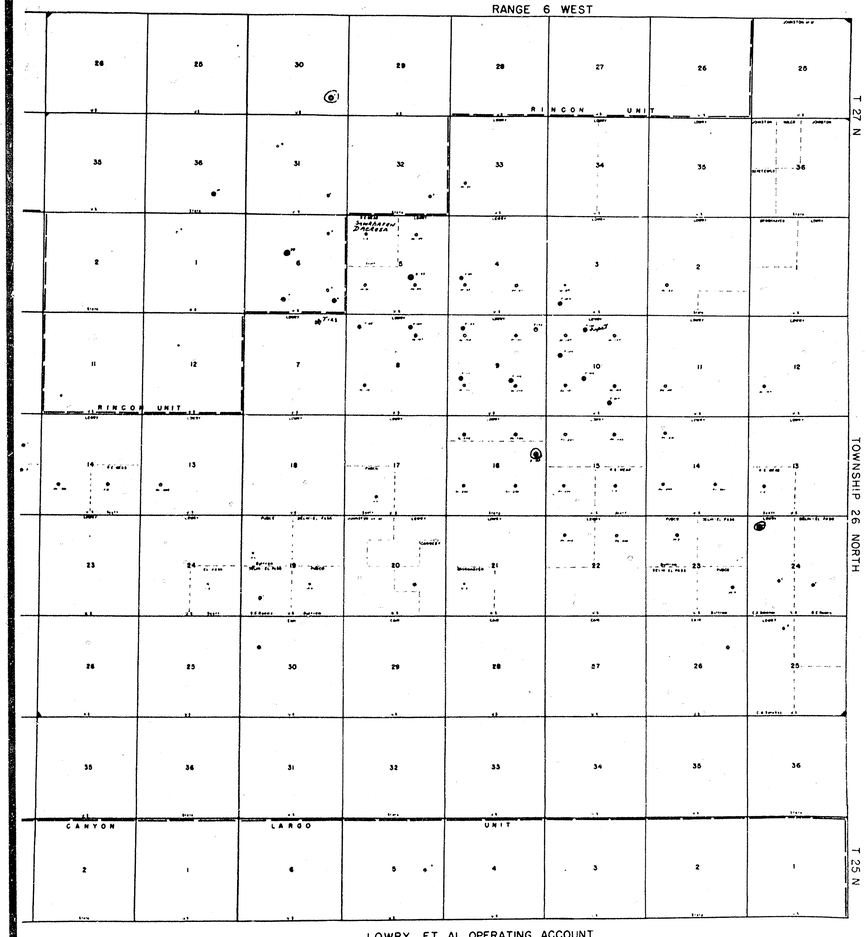
LEGEND:

- Dakota Well
- Tocito Oil Well O Dry in Tocito
- Gas Well
- Dry Hole
- Location

Exhibit A

323

RANGE 6 WEST



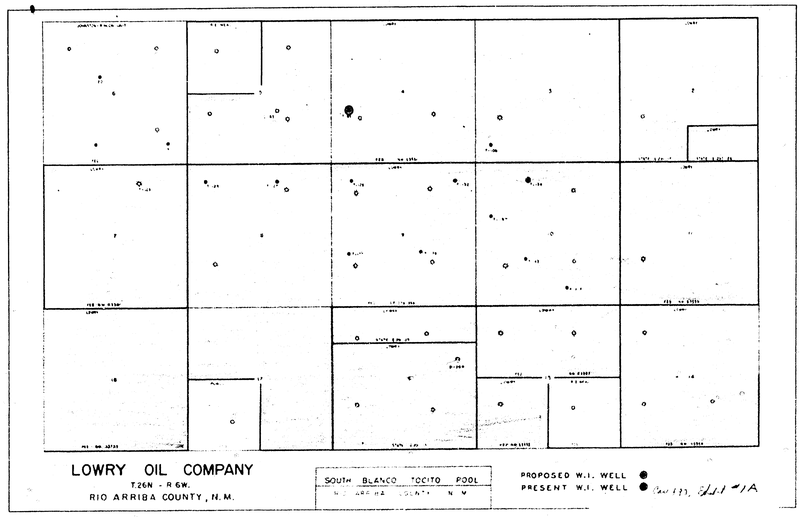
LOWRY ET AL OPERATING ACCOUNT

ERKAN AREA, RIO ARRIBA COUNTY, NEW MEXICO

LEGEND:

- Dakota Well
- Tocito Oil Well O Dry in Tocito
- Gas Well
- Dry Hole
- Location

Exhibit A



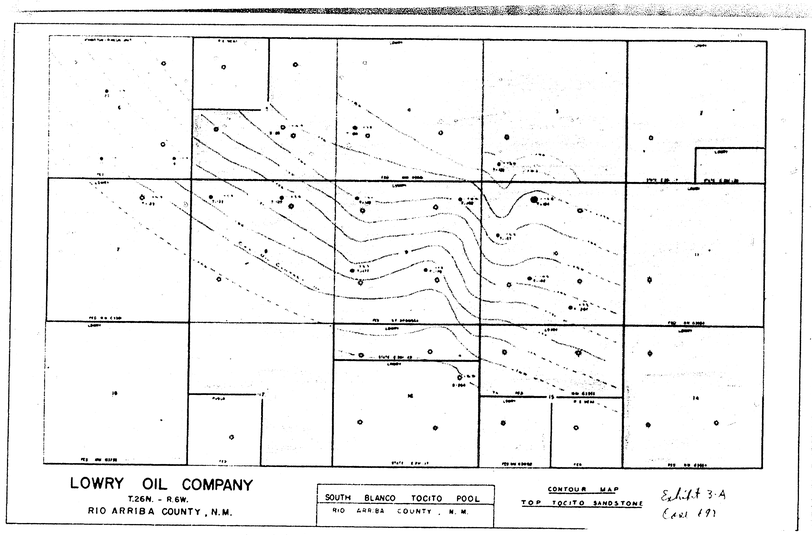


Exhibit 2-A
Case #197

COMPLETION INFORMATION

LOWRY ET AL OPERATING ACCOUNT

WELL T - 85
SOUTH BLANCO TOCITO POOL
RIO ARRIBA COUNTY, NEW MEXICO

Location:	1980 FSL, 660 FWL, Section 4, T 26N, R 6W
Elevation:	6,471' DL
Drilling Commenced:	May 6, 1953
Drilling Completed:	June 4, 1953
Commenced Producing:	June 21, 1953
Surface Pipe:	10-3/4" OD casing set @445', with 175 sks cement.
Production Pipe:	7" OD casing set @ 6,641' with 200 sks cement.
Tubing:	2" OD set @ 6,640'.
Total Depth:	6,691'
Acid Treatment:	None
Shot Record:	Not shot
Initial Potential:	23.05 barrels of oil per day
	17 BOPD [illegible]

Exhibit 4-A
Case #197

DIVISION OF INTEREST

LOWRY ET AL OPERATING ACCOUNT

FEDERAL LEASE NM 03551

AND

FEDERAL LEASE SF 079035-A

ROYALTY

Federal Government	.1250000 of 8/8
Overriding Royalty and Working Interest	
Doris Elaine Mims	.0009524 of 7/8
Decrease Corp.	.0161142 of 7/8
Brookhaven Oil Corp.	.0124571 of 7/8
Robert Mims	.0009524 of 7/8
P. T. Pee	.0003810 of 7/8
S. D. Petree	.0003810 of 7/8
W. C. Smith	.0003810 of 7/8
J. W. Bartlett	.0003810 of 7/8
Frank A. Schultz	.0003810 of 7/8
R. L. Crockett	.0019048 of 7/8
Working Interest	.9657141 of 7/8

324

TOCITO FORMATION

RIO ARRIBA CO., NEW MEXICO

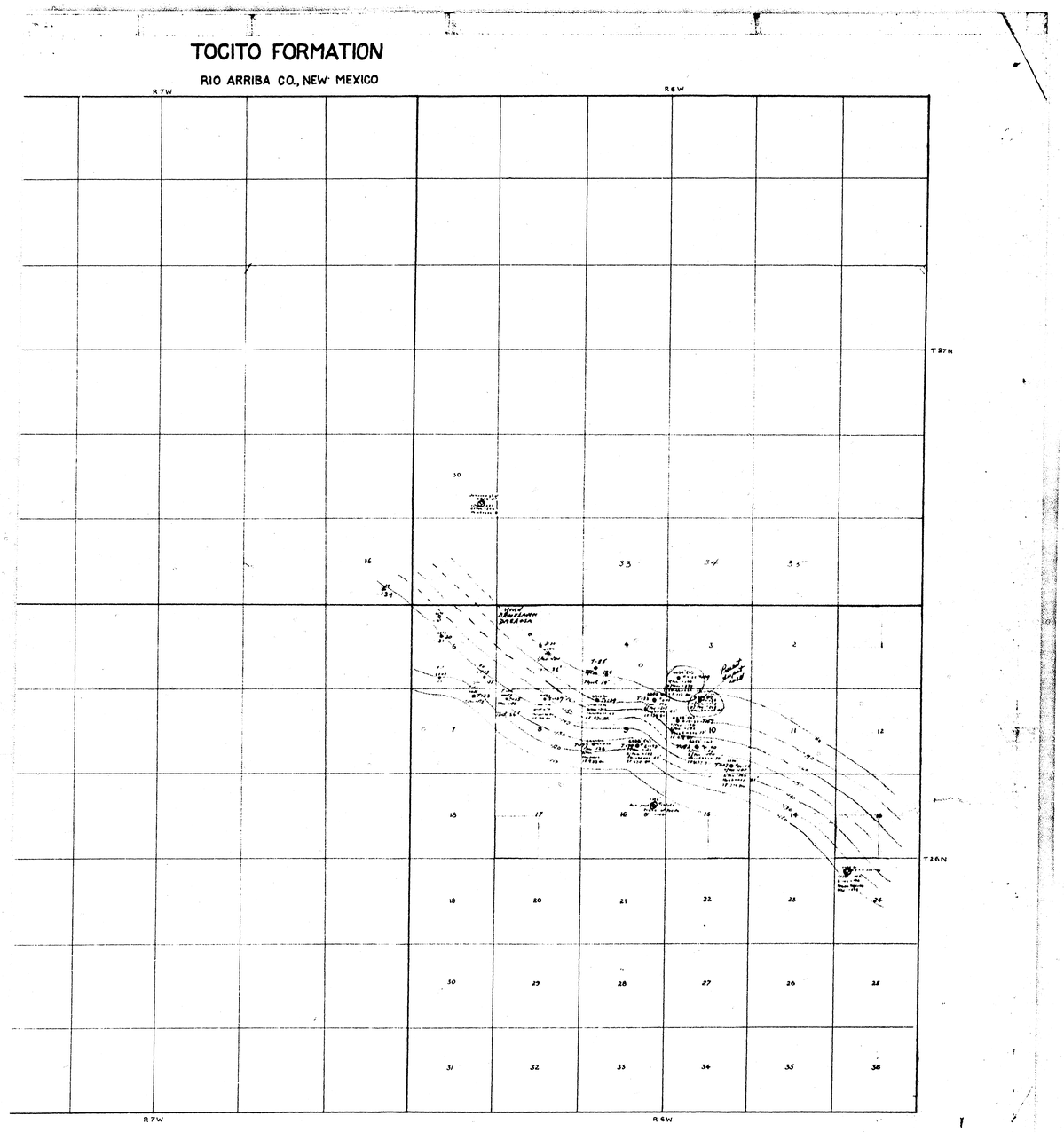


Exhibit B

○ DRY IN Tocito

Property of : THOMAS B. SCOTT
Rm. 604, FIRST NATIONAL BANK BLDG.
ALBUQUERQUE, NEW MEXICO

Ground Elevations

Cartography by : LOSCHKEBELL, J.

JOHNSTON OIL AND GAS COMPANY

1221 Esperson Bldg. Houston 2, Texas

June 8, 1954

Lowry Oil Company
P. O. Box 6003
Albuquerque, New Mexico

Attn: Mr. A. A. Hunt

Re: Your proposed water pressure maintenance program. Tocito Field, Rio Arriba County, New Mexico

Gentlemen:

We have had our engineers study your proposed plan for a full scale water injection program designed to maintain reservoir pressures in the above field and have given consideration to cooperation with you in that program by injecting water in our Rincon No. 11 well.

We have now reached the conclusion that until we have more definitely established the limits of the Tocito sand on our leases in the Rincon Unit by additional drilling, so that we can properly evaluate an overall program, it would not be wise for us to convert any well to a water injection well.

We accordingly hereby advise you that we do not at this time wish to join in a cooperative water injection program.

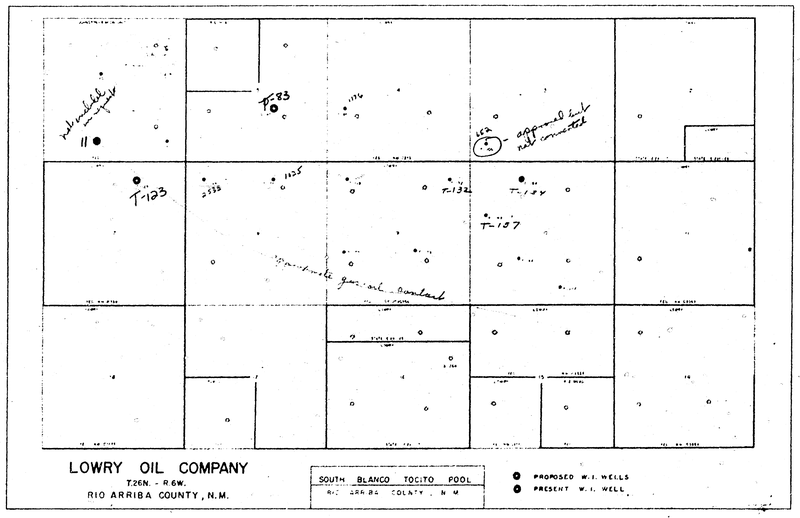
However, we have no objection to your proceeding to inject water in any of the Tocito wells operated by you, and hereby authorize you to file a copy of this letter with the New Mexico Conservation Commission to record our attitude in the matter.

Very truly yours,

JOHNSTON OIL AND GAS COMPANY

By Ralph A. Johnston
Engineer

325



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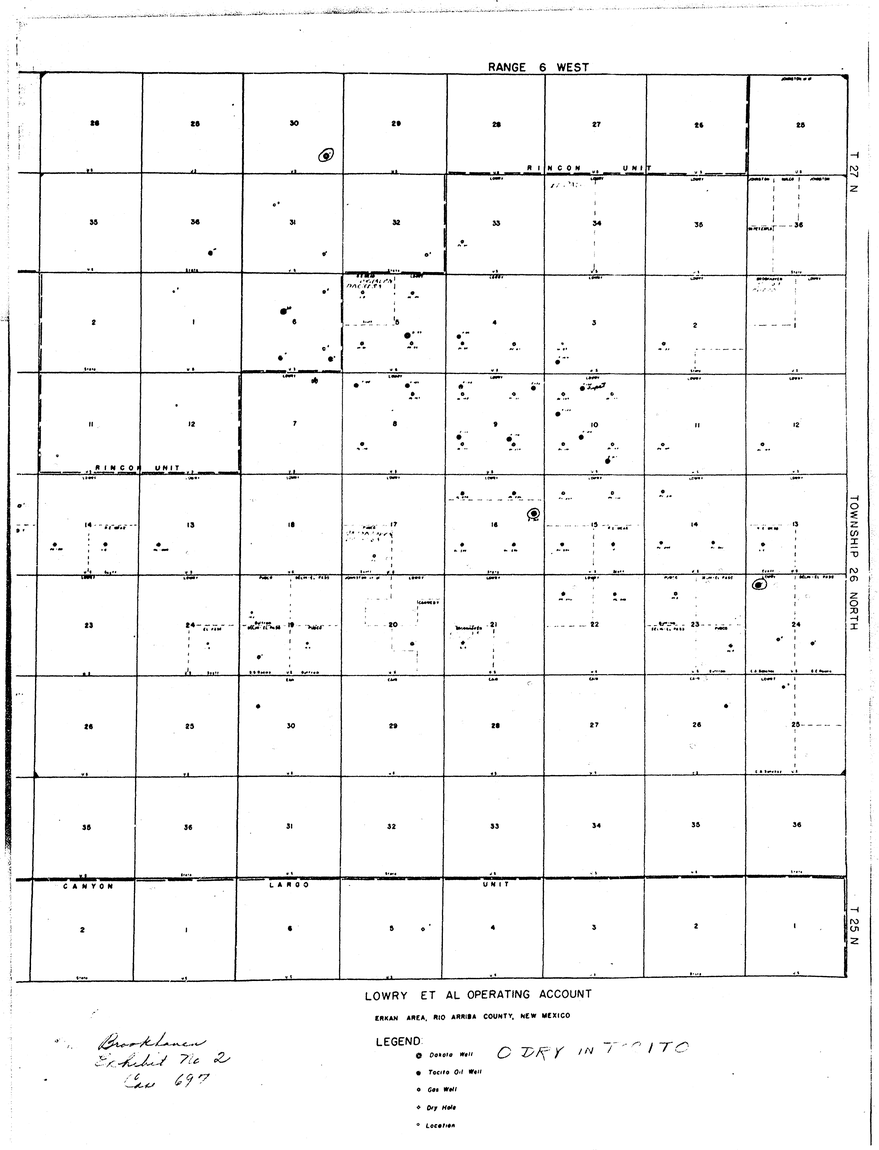
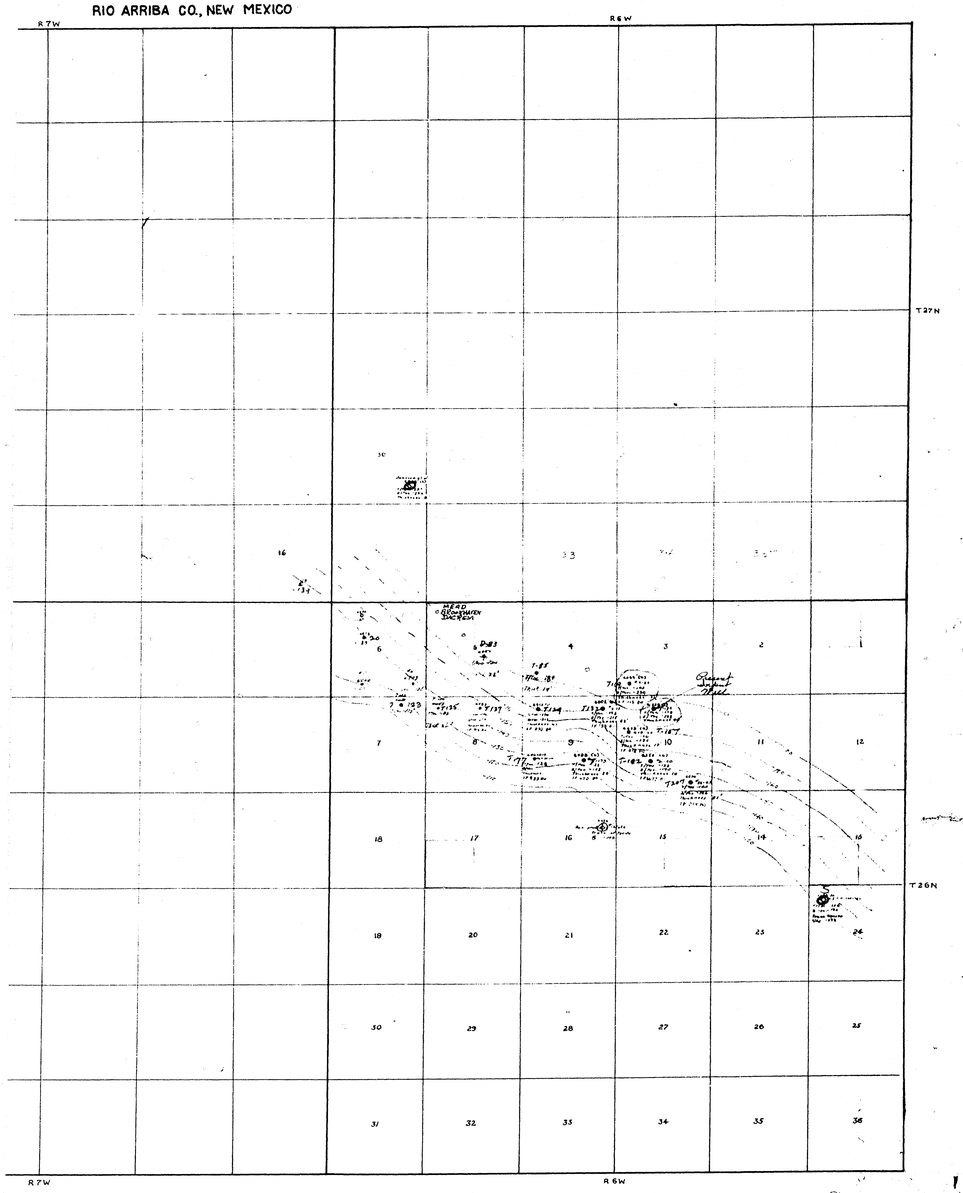


Brookhaven
Exhibit No 2
to
Cause 697

TOCITO FORMATION

RIO ARRIBA CO., NEW MEXICO



ODRY IN TOCITO

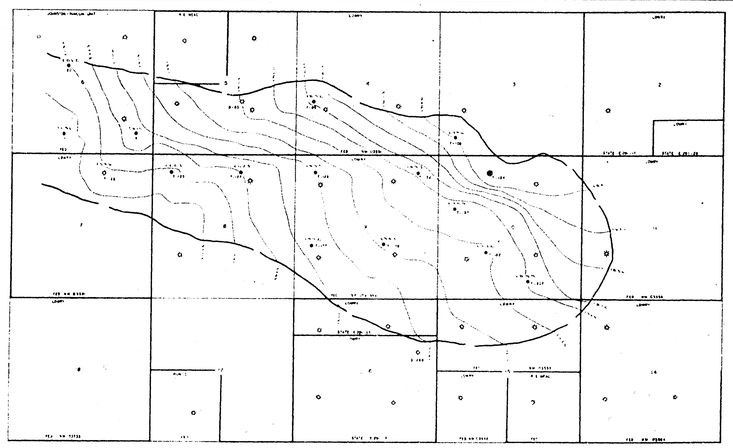
SCALE: 2 in. = 1 mile

Brookhaven
Exhibit 3
Case No 697

Property of THOMAS B. SCOTT
RM 606, FIRST NATIONAL BANK BLDG.
ALBUQUERQUE, NEW MEXICO

Ground Elevations

Cartography by LUDWIGSBILL, J

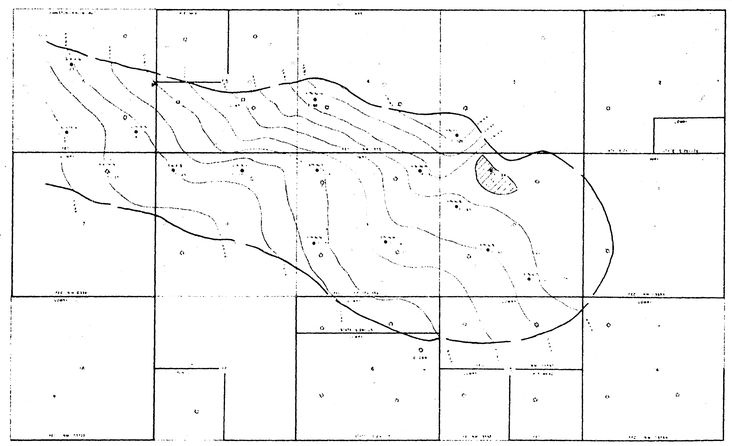


LOWRY OIL COMPANY
T.26N. - R.6W.
RIO ARRIBA COUNTY, N.M.

SOUTH BLANCO TOCITO POOL
RIO ARRIBA COUNTY, N.M.
ISOBARIC MAP

7TH GENERAL SURVEY
JANUARY 11-13, 1954
AVG RESERVOIR PRESS
1953 PSI — -100 FT

BEFORE THE
OIL CONSERVATION COMMISSION
CASE 697



LOWRY OIL COMPANY
T.26N. - R.6W.
RIO ARRIBA COUNTY, N.M.

SOUTH BLANCO TOCITO POOL
RIO ARRIBA COUNTY, N.M.
ISOBARIC MAP

8TH GENERAL SURVEY
APRIL 1-3, 1954
AVG RESERVOIR PRESS
1944 PSI — -100 FT

BEFORE THE
OIL CONSERVATION COMMISSION
CASE 697

327

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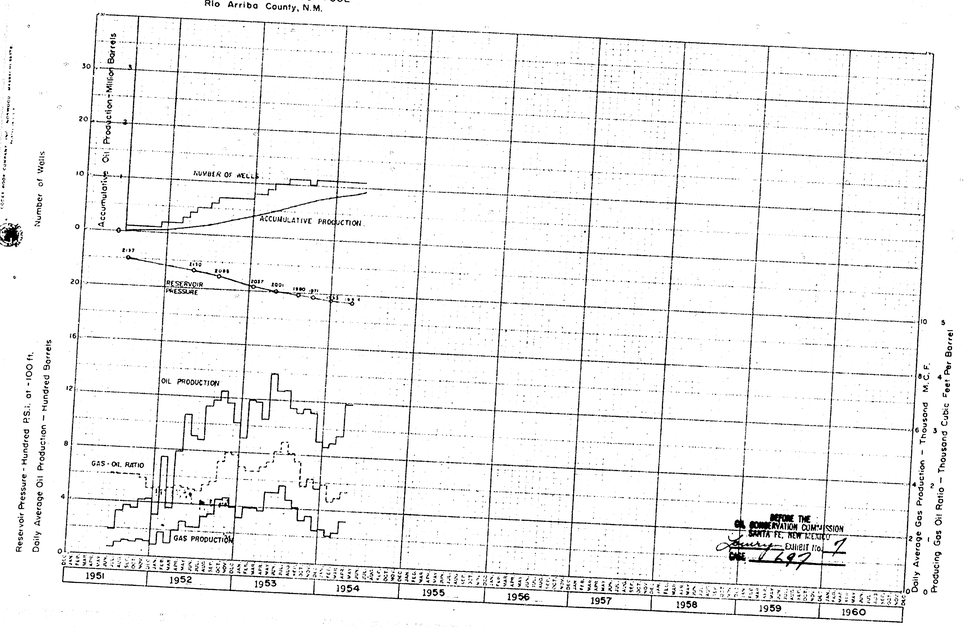
LOWRY OPERATED PROPERTIES
SOUTH BLANCO TOCITO POOL
Rio Arriba County, N.M.



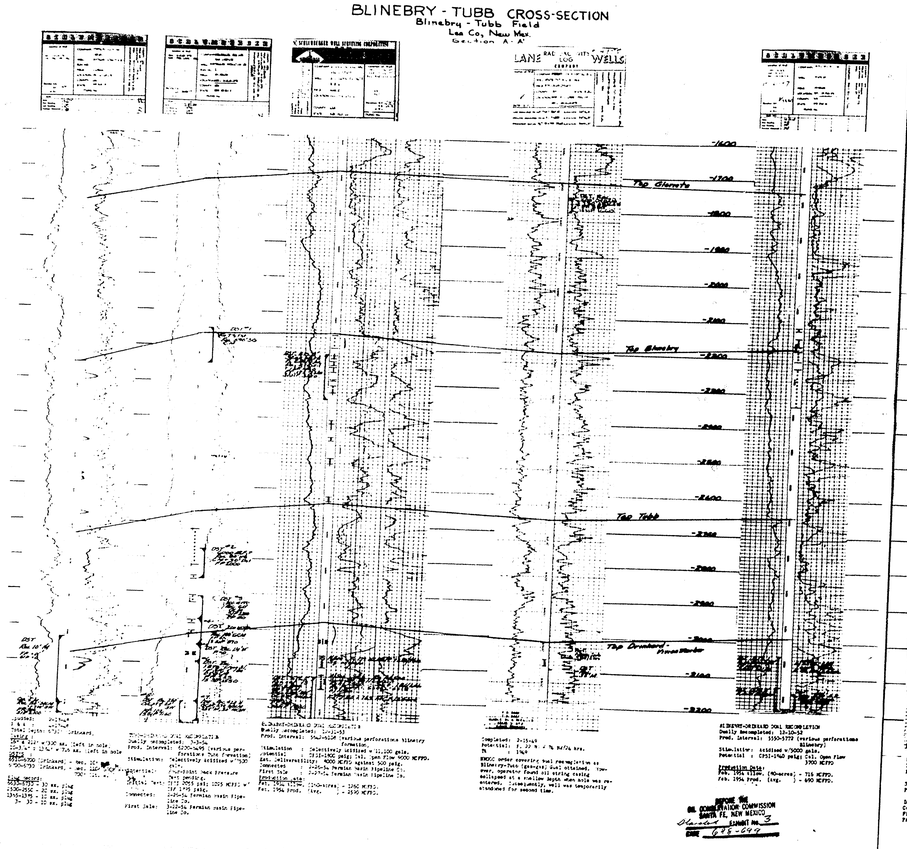
BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Lowry EXHIBIT No. 1
CASE 1497

BLINEBRY - TUBB CROSS-SECTION

Blinebry - Tubb Field

Lea Co, New Mex.

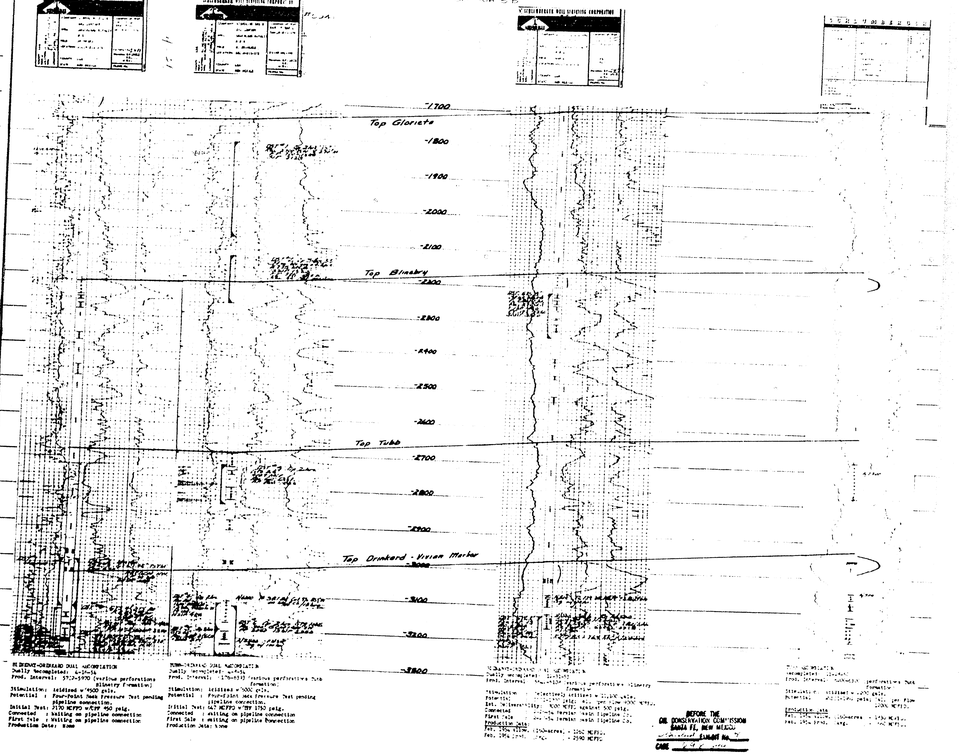
Section A - A'



BLINEBRY - TUBB CROSS-SECTION

Blinebry - Tubb Field

Lea Co, N.Mex.

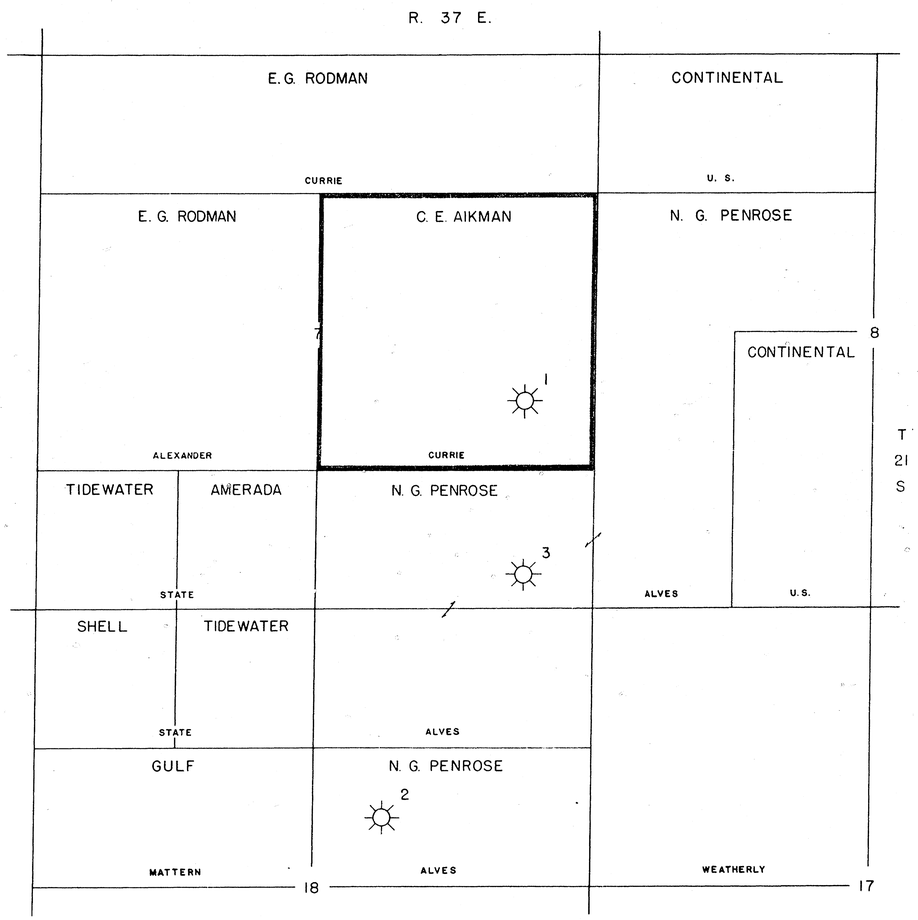


BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO

EXHIBIT No. 3

CASE 655 + 656

329



MAP SHOWING 160 ACRE GAS UNIT

REQUESTED BY CLAUDE E. AIKMAN

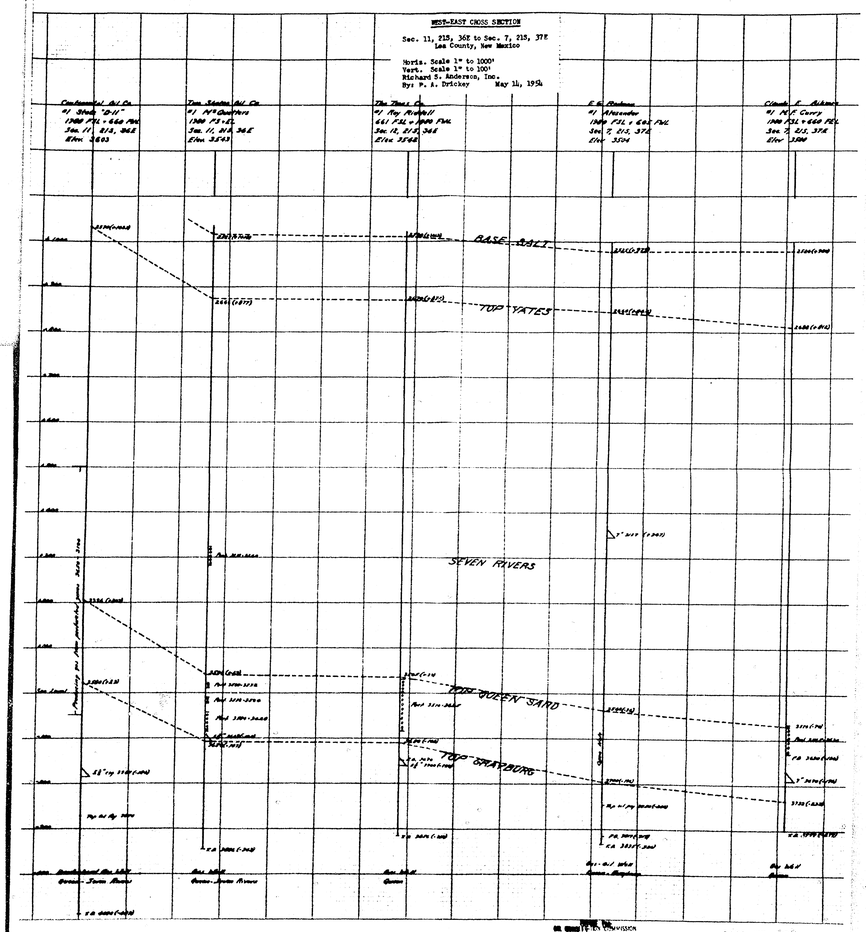
BEFORE N.M.O.C.C. MAY 19, 1954

CASE NO. 701

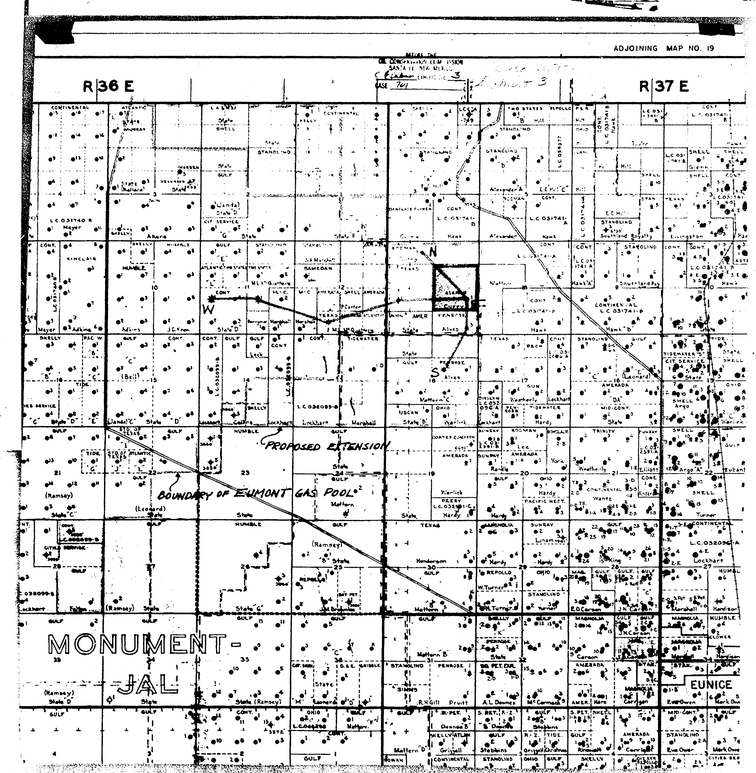
EXHIBIT NO. 1

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO
C. E. Aikman EXHIBIT NO. 1
CASE 701

330



CASE NO. 701
EXHIBIT NO. 2



331

CONOCO

2

R. OLSEN OIL CO.

SKELLY

Case No 703
Cyl # 5

U. S.

HARRISON

HARRISON

CONOCO

18

SAMEDAN

SAMEDAN

AMERADA

SAMEDAN

SKELLY

TEXAS CO.

U. S.

1-7

T23S-R37E

STATE

WESTERN GAS

1

7

JOHN M. KELLY

E.L. STEELER

SAMEDAN

CONOCO

6

U. S.

U. S.

STATE

WESTERN GAS

SKELLY

GULF

1

U. S.

JOHNSON

U. S.

Case 703
G/N 4

LANE RADIOACTIVITY LOG WELLS
COMPANY

FILE NO.

Location of Well	COMPANY: SKELLY OIL COMPANY WELL: E. L. STEELER NO. 7 FIELD: LANGLIE MATTIX COUNTY: LEA STATE: N MEX. LOCATION: 1980' FSL & 660' FWL OF SECTION 17, 23-S, 37-E

COMPANY: SKELLY OIL COMPANY
WELL: E. L. STEELER NO. 7
FIELD: LANGLIE MATTIX
COUNTY: LEA STATE: N MEX.
LOCATION:

LOG MEAS. FROM	DERRICK FLOOR	ELEV. 3316
DRLG. MEAS. FROM	DERRICK FLOOR	ELEV. 3316
PERM. DATUM	GROUND LEVEL	ELEV. 3314

TYPE OF LOG	GAMMA RAY	NEUTRON
RUN NO.	ONE-NW	ONE-NW
DATE	4-6-54	4-6-54
TOTAL DEPTH (DRILLER) WIRE LINE	3641	3641
EFFECTIVE DEPTH (DRILLER)	3641	3641
TOP OF LOGGED INTERVAL	SURFACE	SURFACE
BOTTOM OF LOGGED INTERVAL	3617	3617
TYPE OF FLUID IN HOLE	OIL	OIL
FLUID LEVEL	3500'	3500'
MAXIMUM RECORDED TEMP.		600H
NEUTRON SOURCE STRENGTH & TYPE		8.25
SOURCE SPACING — IN	36"	9"
LENGTH OF MEASURING DEVICE — IN	3 5/8"	3 5/8"
O.D. OF INSTRUMENT — IN	2.5	1.6
TIME CONSTANT — SECONDS	20-50	20-50
LOGGING SPEED FT. MIN		
STATISTICAL VARIATION — IN		
SENSITIVITY REFERENCE	274	275
RECORDED BY	SCHLOTTERBACK	
WITNESS DEPT.	CALHOUN	CALHOUN

RECORDED SIMULTANEOUSLY

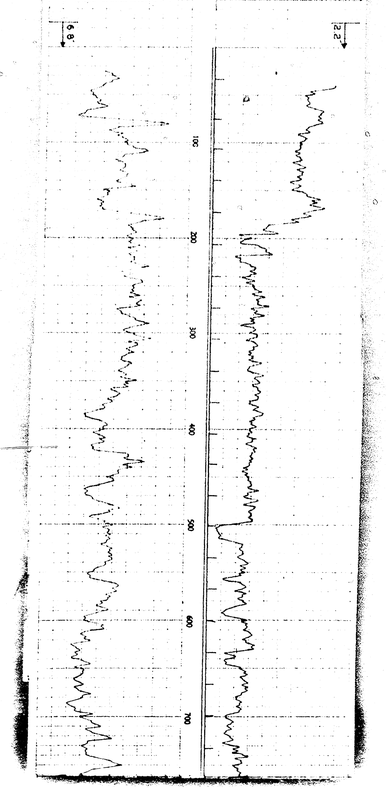
CASING RECORD

RUN NO.	BIT SIZE	CASING	WT. LBS.	FROM WELL RECORD	FROM R.A. LOG
ONE	11"	8 5/8"		SURFACE TO 1150	SURFACE TO 1148
ONE	6 3/4"	5 1/2"	14#	SURFACE TO 3460	SURFACE TO 3430
ONE	4 3/8"			3460 TO 3641	3430 TO 3619
				TO	TO
				TO	TO

REMARKS OR OTHER DATA

GAMMA RAY → RADIATION INTENSITY INCREASES

NEUTRON → RADIATION INTENSITY INCREASES



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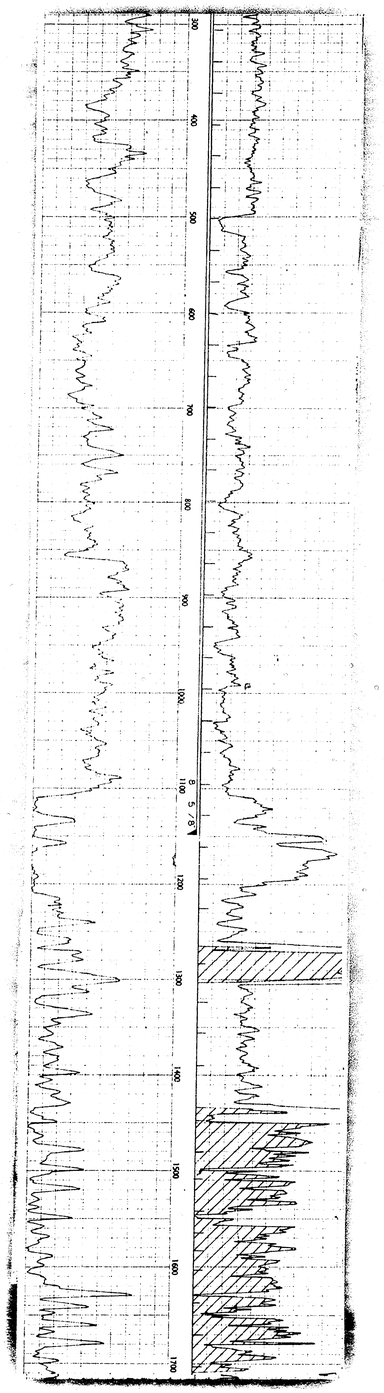

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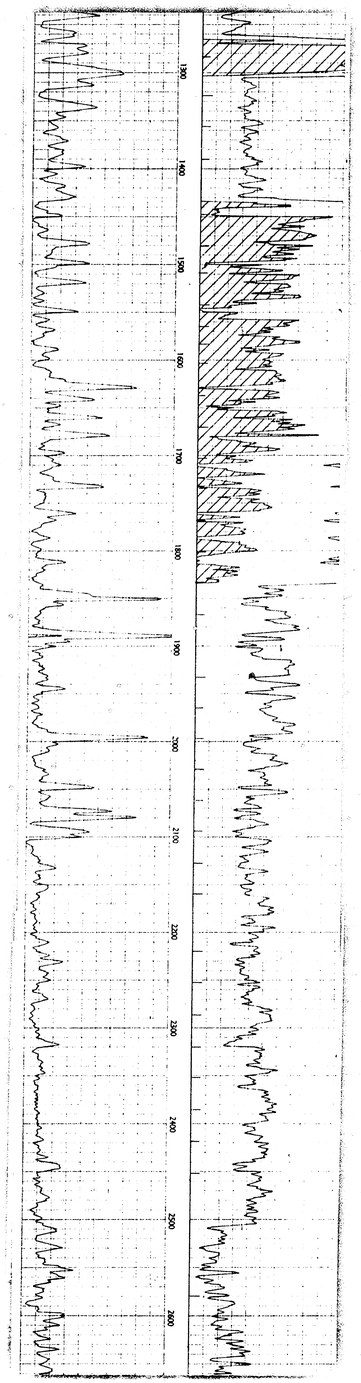
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1400
1500
1600
1700
1800
1900
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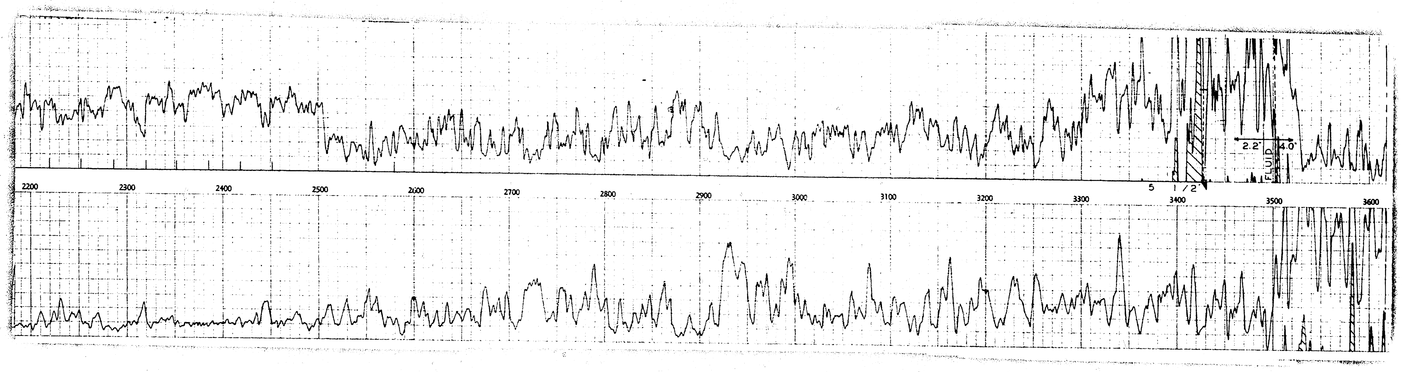
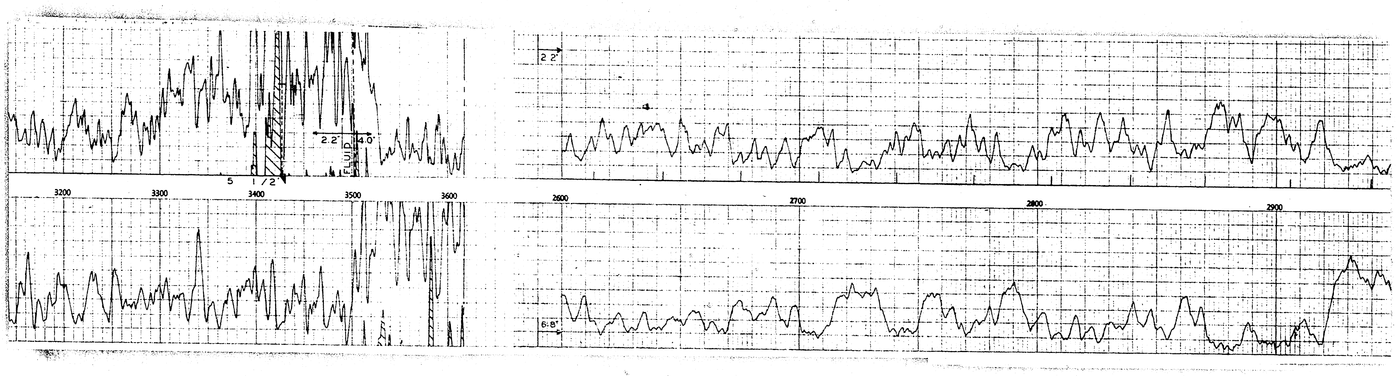
2100
2200
2300
2400
2500
2600

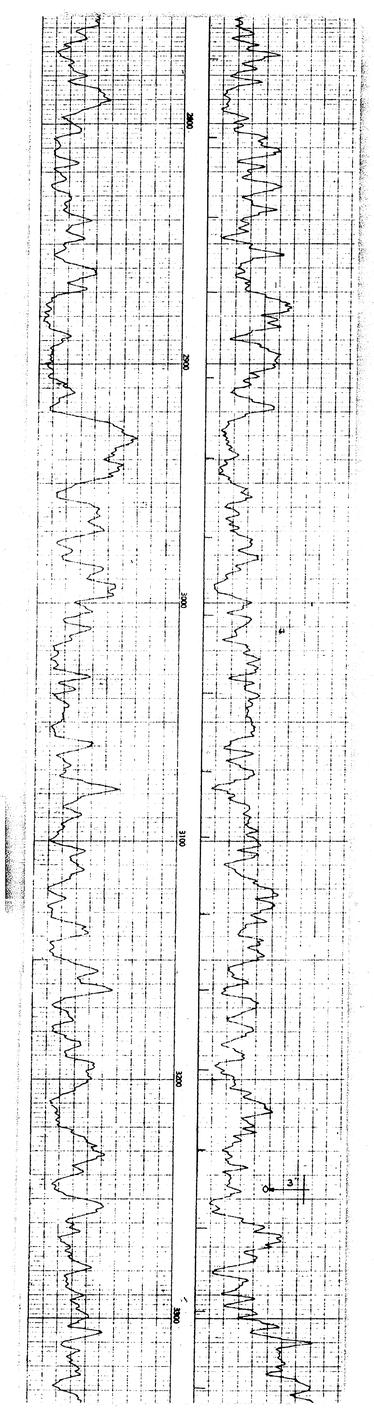
334


2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
5 1/2
2.2
4.0
FLUID

335

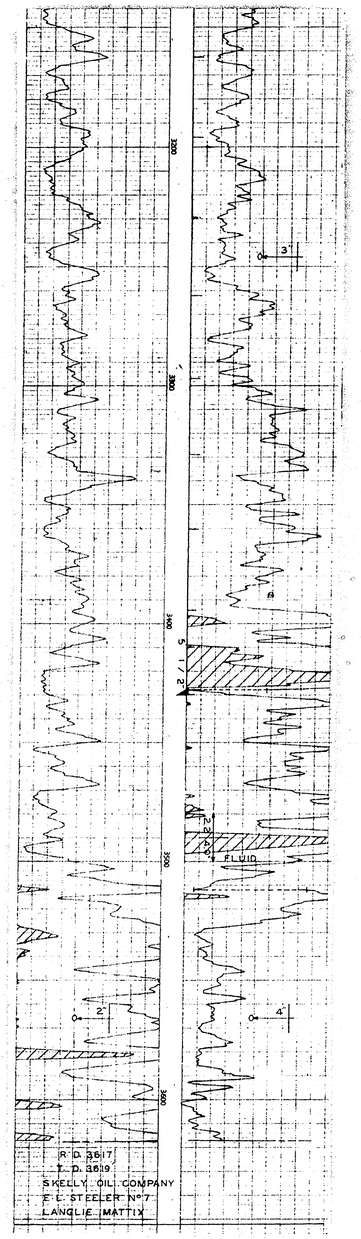

2.2'
4.0'
FLUID
5 1/2
3200
3300
3400
3500
3600
2.2'
2600
2700
2800
2900
6.8'

336



337

338


3300
3400
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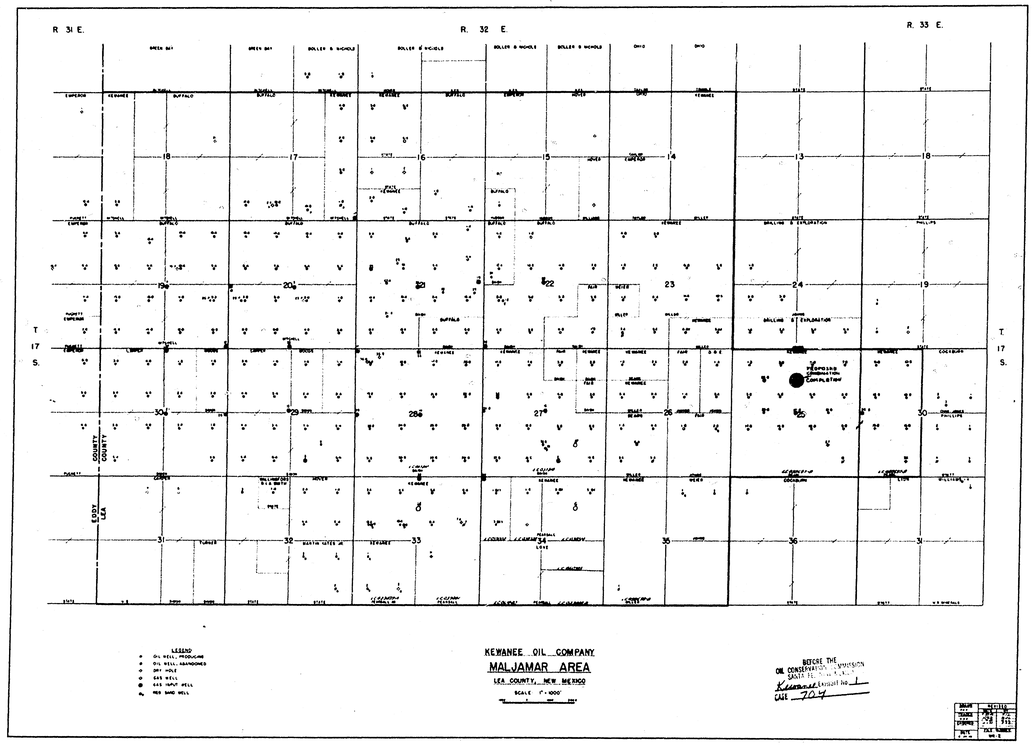
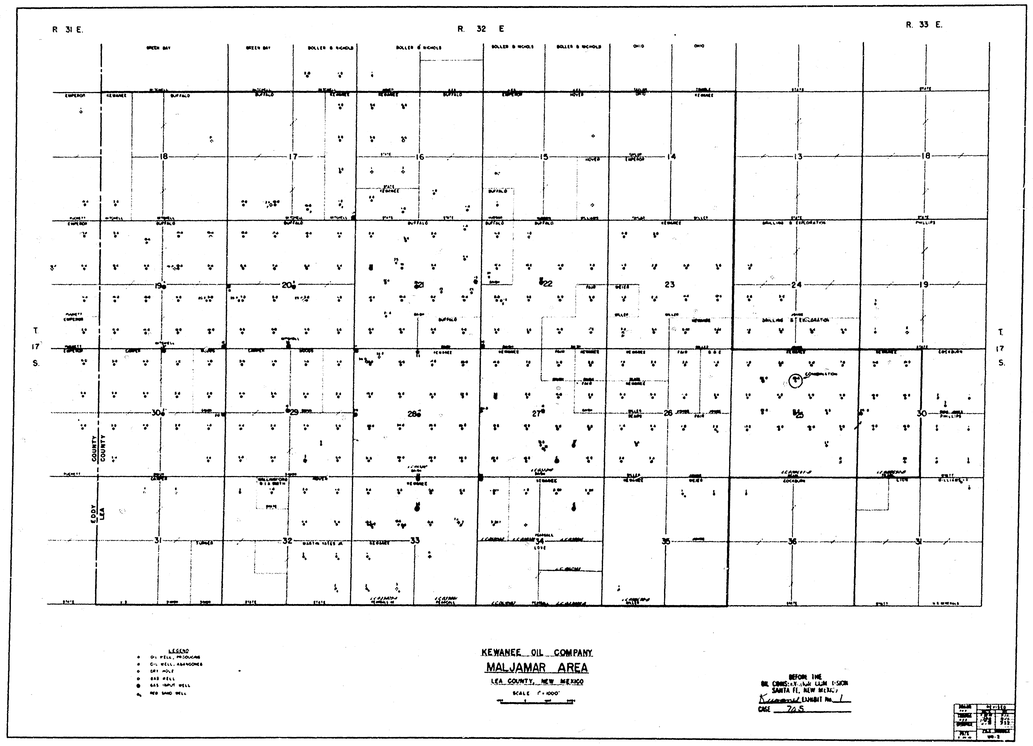
R.D. 3617
T.D. 3619
SKELLY OIL COMPANY
E.L. STEELER No. 7
LANGLIE MATTIX

339


R. 31 E.
R. 32 E.
R. 33 E.
T. 17 S.
EDDY COUNTY
LEA COUNTY
PROPOSED COMPLETION
LEGEND
OIL WELL, PRODUCING
OIL WELL, ABANDONED
DRY HOLE
GAS WELL
GAS INPUT WELL
RED SAND WELL
KEWANEE OIL COMPANY
MALJAMAR AREA
LEA COUNTY, NEW MEXICO
SCALE 1" = 1000'
BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Kewanee Exhibit No. 1
CASE 704

340


R. 31 E.
R. 32 E
R. 33 E.
T 17 S.
COUNTY
EDDY
LEA
LEGEND
KEWANEE OIL COMPANY
MALJAMAR AREA
LEA COUNTY, NEW MEXICO
SCALE 1"=1000'
BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 1
CASE 726

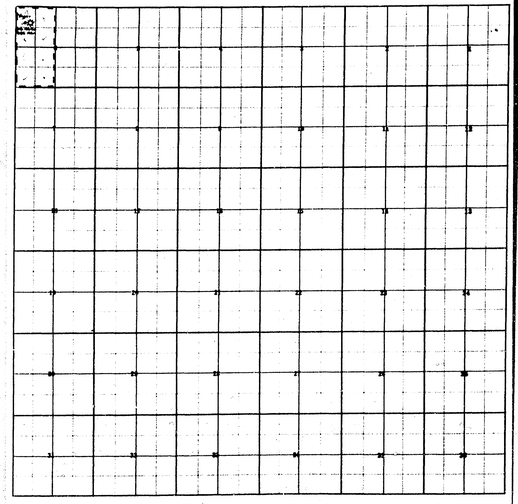
EL PASO NATURAL GAS CO
EXHIBIT 1-A

BEFORE THE OIL CONSERVATION COMMISSION
Case 706-712

TOWNSHIP PLAT

Township 30 North Range 11 West

North



RED ACREAGE - EPNG & ACREAGE
YELLOW ACREAGE - SOUL & YAGER LEASES

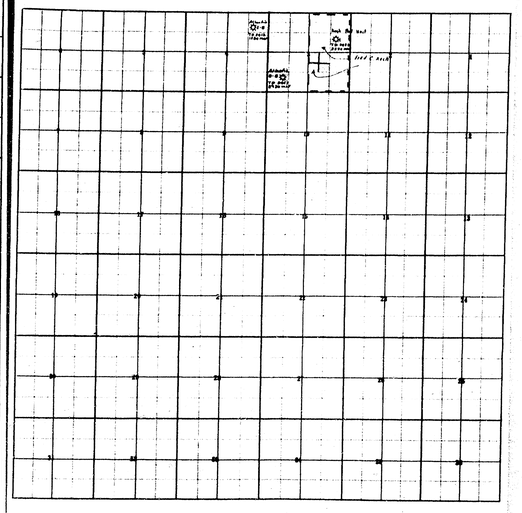
EL PASO NATURAL GAS COMPANY
EXHIBIT 1-B

BEFORE THE OIL CONSERVATION COMMISSION
Case 706-712

TOWNSHIP PLAT

Township 30 North Range 10 West

North



Soul & Yager leases
E.P.N.G

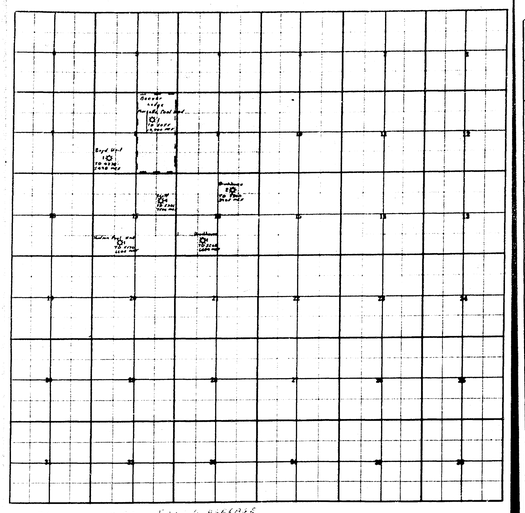
341

EL PASO NATURAL GAS CO.
EXHIBIT 1-C

TOWNSHIP PLAT

Township 31 North Range 10 West

North



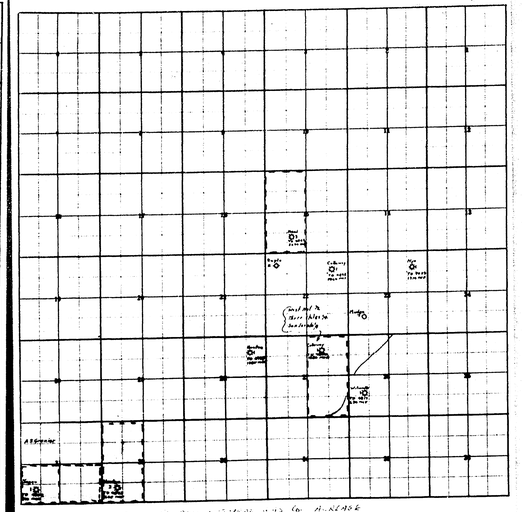
RED ACREAGE - EPNG & ACREAGE
YELLOW ACREAGE - SOUL & YAGER LEASES

EL PASO NATURAL GAS COMPANY
EXHIBIT 1-C

TOWNSHIP PLAT

Township 31 North Range 11 West

North



RED ACREAGE - EL PASO NATURAL GAS CO. ACREAGE
YELLOW ACREAGE - SOUL & YAGER LEASES

W/2 6-30-11

Tr 1
E.P.N.G.
Assignment from Delhi to El Paso dated 3-1-52 Exhibit "A-10A-A"

Yager Pool Unit
TD 4640
686 MCF
2

Tr 3
E.P.N.G.
Assignment of Operating Agreement from Delhi to El Paso dated 3-1-52 Exhibit "A-10A-C"

SF 078781

Tr 2
E.P.N.G.
Assignment from Delhi to El Paso dated 3-1-52 Exhibit "A-10A-B"

Tr 4
E.P.N.G.
Assignment of Operating Agreement from Delhi to El Paso dated 3-1-52 Exhibit "A-10A-D"

SF 078781

342

S/2 31-31-11

Yager Pool Unit

I

Assignment from Delhi to E.P.N.G. dated 7-1-52 Exhibit "A" No. A

TD 4852
710 MCF

E.P.N.G.

Tr 3

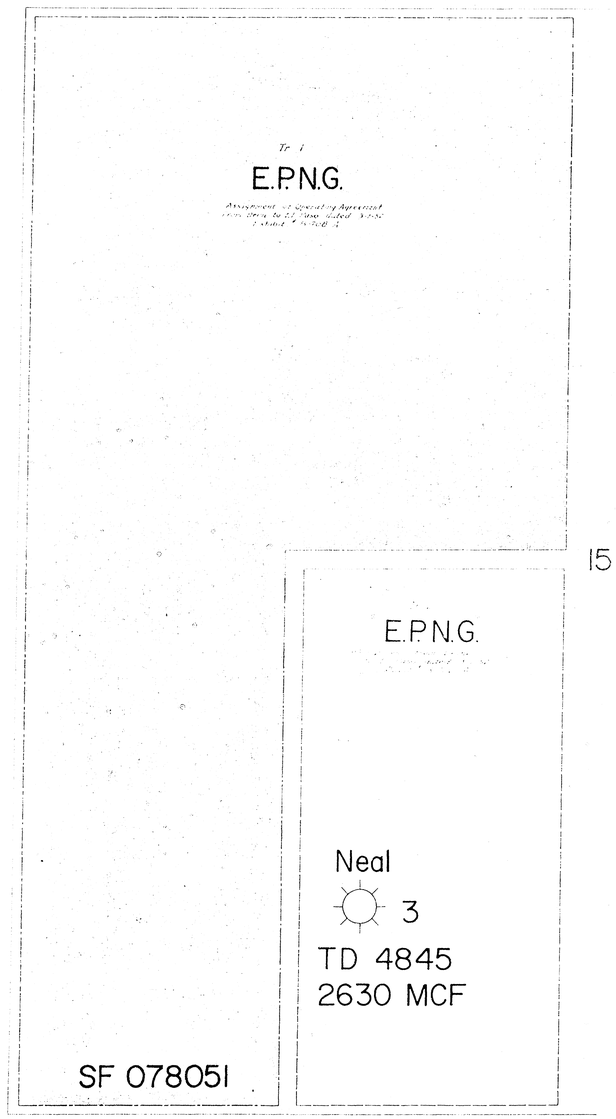
E.P.N.G.

Assignment of Operating Agreement from Delhi to El Paso dated 3-1-52 Exhibit "A" No. 13

SF 078097

343

W/2 15-31-11



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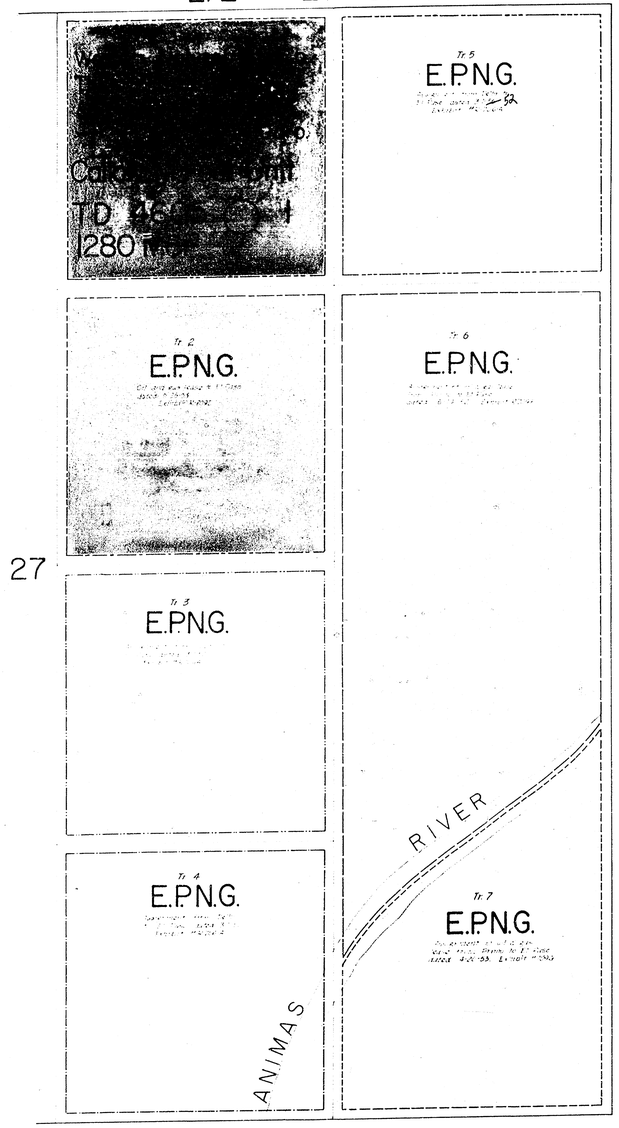
E/2 27 - 31 - 11



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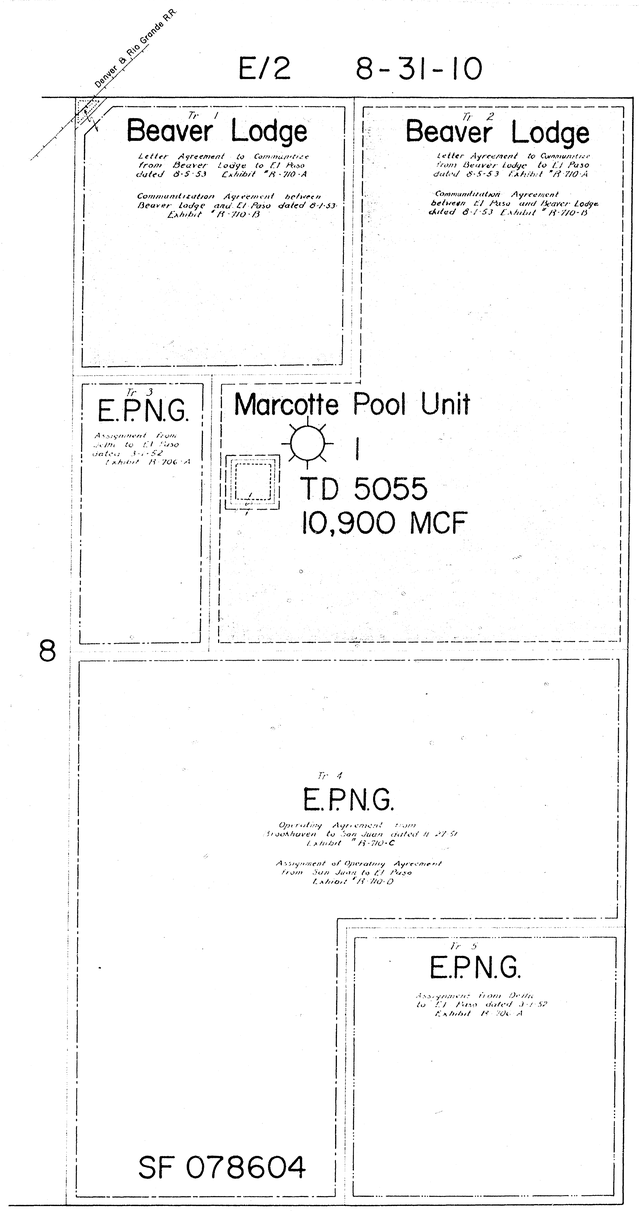
E.P.N.G. EXHIBIT "R-709
Rehearing March 15, 1950
Case nos. 709 and 649
(consolidated)

346



EPNG EXHIBIT "A-710

February March 15 1956
Case Nos. 350 and 350
(Consolidated)

W/2 32-31-11

Tr 1
E.P.N.G.

32

Tr 2
E.P.N.G.

347

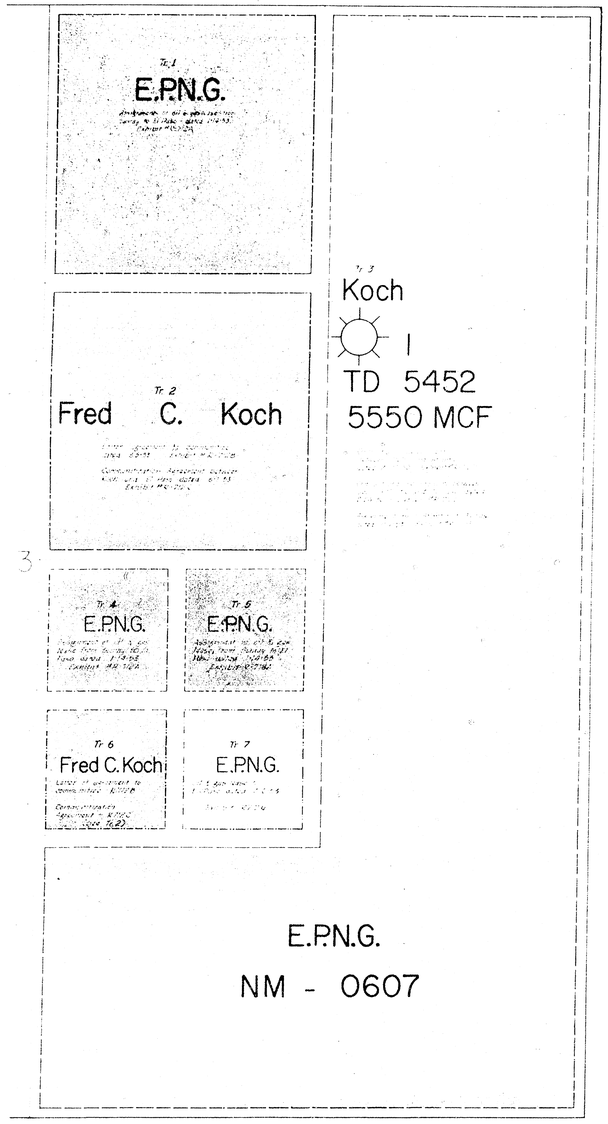
Heaton

Tr 3
E.P.N.G. 3
TD 4823
1625 MCF

SF 078097

E.P.N.G. EXHIBIT "R-711
Rehearing March 15, 1956
Case nos. 711 and 231
(consolidated)

E/2 3 - 30 - 10



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E.P.N.G. EXHIBIT "R-712
Rehearing, March 15, 1966
Case nos. 712 and 852
(Consolidated)

W/2 15-31-11

Tr 1
E.P.N.G.
Assignment of Operating Agreement from Delhi to El Paso dated 3-1-52
Exhibit "A-705-J"

Tr 2
E.P.N.G.
Assignment from Delhi to El Paso dated 3-1-52
Exhibit "A-705-A"

Neal
3
TD 4845
2630 MCF

SF 078051

15

E/2 27-31-11

Tr 5
E.P.N.G.
Assignment from Delhi to El Paso dated 3-1-52
Exhibit "A-706-A"

Tr 6
E.P.N.G.

Tr 3
E.P.N.G.

Tr 4
E.P.N.G.

Tr 7
E.P.N.G.

RIVER

ANIMAS

27

E/2 8-31-10

Denver & Rio Grande R.R.

Tr 1
Beaver Lodge
Letter Agreement to Communitize from Beaver Lodge to El Paso dated 8-3-53 Exhibit "A-710-A"
Communitization Agreement between Beaver Lodge and El Paso dated 8-1-53 Exhibit "A-710-B"

Tr 2
Beaver Lodge
Letter Agreement to Communitize from Beaver Lodge to El Paso dated 8-3-53 Exhibit "A-710-A"
Communitization Agreement between El Paso and Beaver Lodge dated 8-1-53 Exhibit "A-710-B"

Tr 3
E.P.N.G.
Assignment from J.M. to El Paso dated 3-1-52 Exhibit A-706-A

Marcotte Pool Unit
1
TD 5055
10,900 MCF

Tr 4
E.P.N.G.
Operating Agreement from Brookhaven to San Juan dated 11-29-51 Exhibit "A-710-C"
Assignment of Operating Agreement from San Juan to El Paso Exhibit "A-710-D"

Tr 5
E.P.N.G.
Assignment from Delhi to El Paso dated 3-1-52 Exhibit A-706-A

SF 078604

8

E.P.N.G. EXHIBIT "A-709
Rehearing March 15, 1956
Case Nos. 709 and 849
(Consolidated)

E.P.N.G. EXHIBIT "A-709
Rehearing March 15, 1956
Case Nos. 709 and 849
(Consolidated)

E.P.N.G. EXHIBIT "A-709
Rehearing March 15, 1956
Case Nos. 709 and 849
(Consolidated)

349

W/2 6-30-11

Tr 1
E.P.N.G.
Assignment from Delhi to El Paso dated 3-1-52
Exhibit "A-706-A"

Yager Pool Unit
TD 4640
686 MCF
2

Tr 3
E.P.N.G.
Assignment of Operating Agreement from Delhi to El Paso dated 3-1-52
Exhibit "A-706-C"

SF 078781

Tr 2
E.P.N.G.
Assignment from Delhi to El Paso dated 10-12-52
Exhibit "A-706-B"

Tr 4
E.P.N.G.
Assignment of Operating Agreement from Delhi to El Paso dated 3-1-52
Exhibit "A-706-C"

SF 078781

EPNG EXHIBIT "A-706"
Rehearing March 15, 1956
Case Nos. 706 and 848
(Consolidated)

S/2 31-31-11

Yager Pool Unit
1
TD 4852
710 MCF

Assignment from Delhi to El Paso dated 3-1-52
Exhibit "A-706-A"

Tr 2
E.P.N.G.

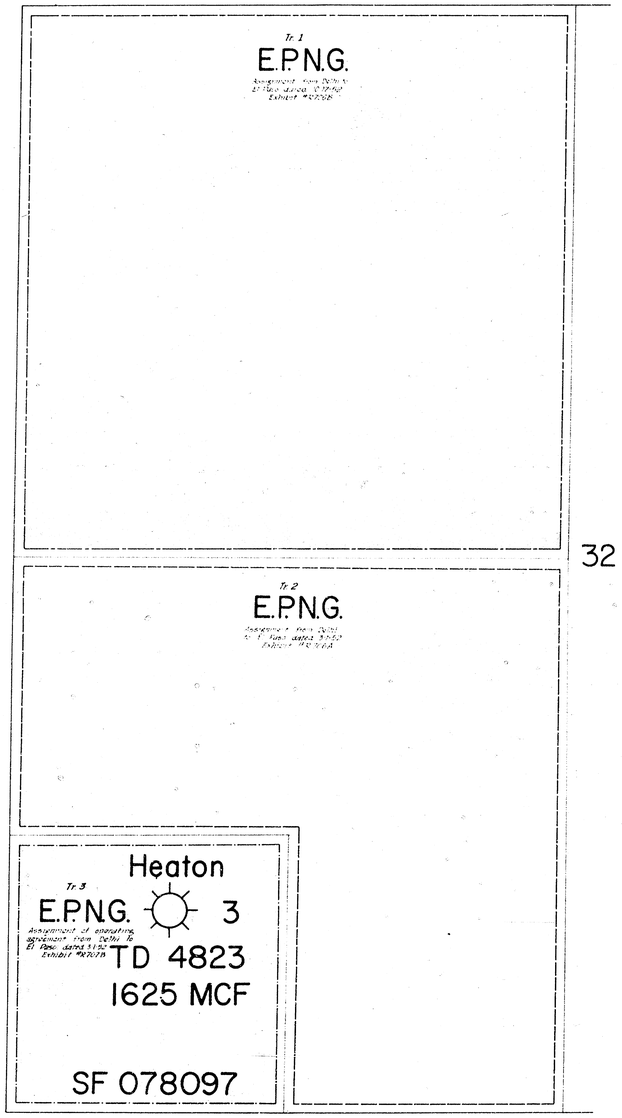
Tr 3
E.P.N.G.
Assignment of Operating Agreement from Delhi to El Paso dated 3-1-52
Exhibit "A-707-B"

SF 078097

EPNG EXHIBIT A-707
Rehearing March 15, 1956
Case Nos. 706 and 848
(Consolidated)

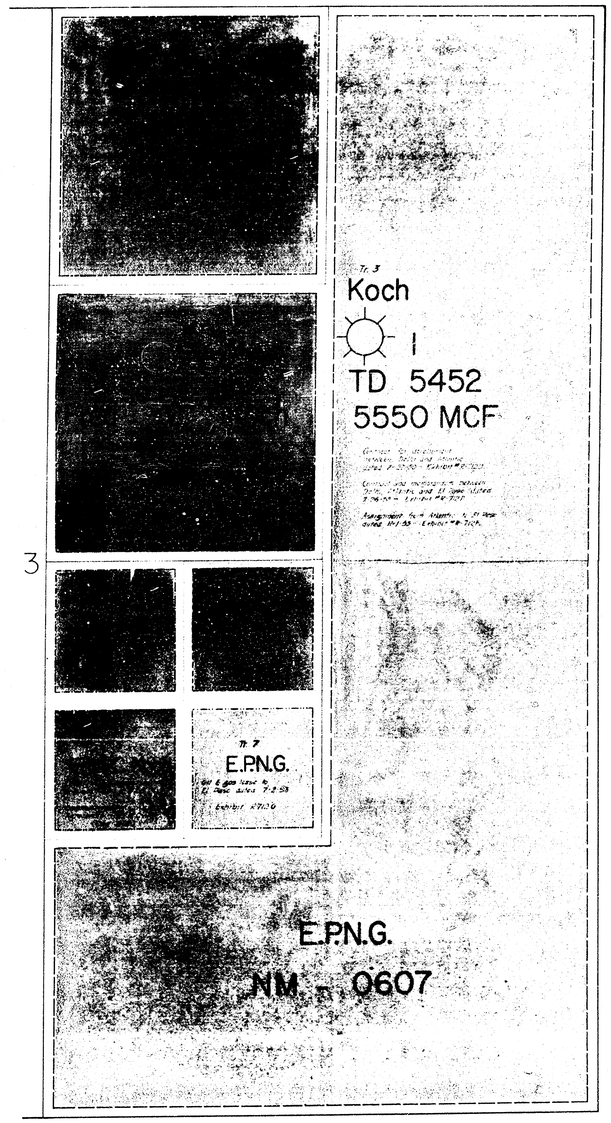
350

W/2 32-31-11



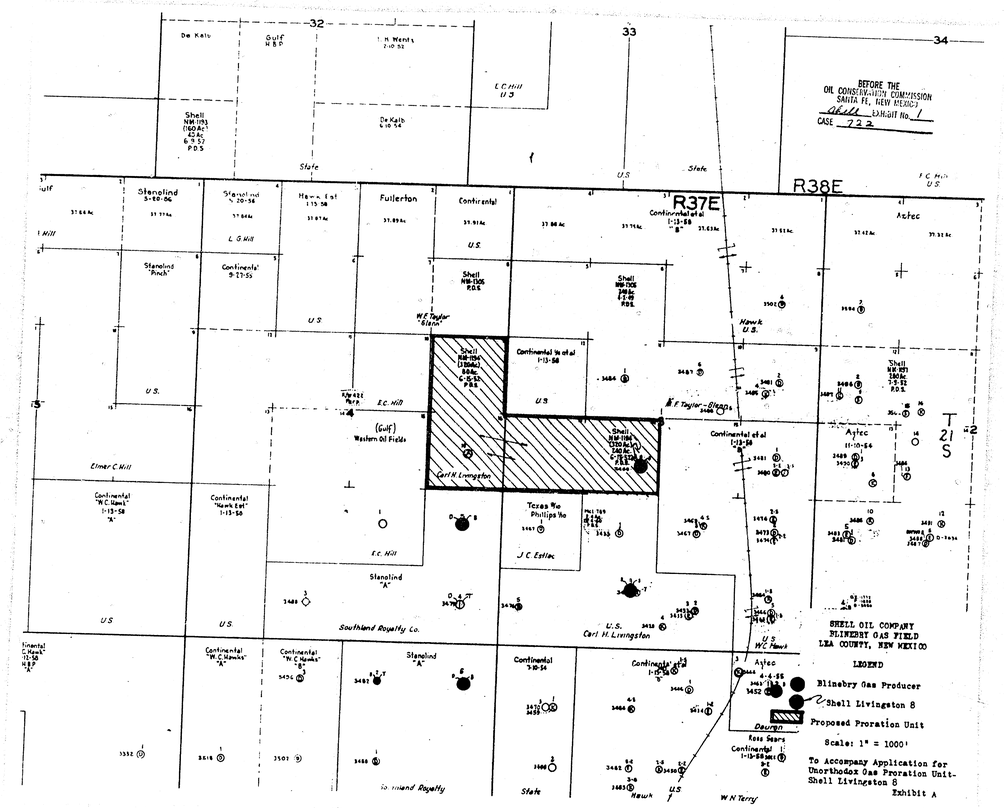
E.P.N.G. EXHIBIT #R-711
Rehearing March 15, 1956
Case nos. 711 and 851
(consolidated)

E/2 3 - 30 - 10



E.P.N.G. EXHIBIT #R712
Rehearing March 15, 1956
Case nos. 712 and 852
(consolidated)

352


BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Shell EXHIBIT No. 1
CASE 722
R37E
R38E
T 21 S
Stanolind
Fullerton
Continental
Aztec
Southland Royalty Co.
Carl H. Livingston
J. C. Estlac
Texas Pa
Phillips Pa
Western Oil Fields
Elmer C. Hill
Hawk
W. N. Terry
Dauron
Ross Sears
SHELL OIL COMPANY
BLINEBRY GAS FIELD
LEA COUNTY, NEW MEXICO
LEGEND
Blinebry Gas Producer
Shell Livingston 8
Proposed Proration Unit
Scale: 1" = 1000'
To Accompany Application for
Unorthodox Gas Proration Unit-
Shell Livingston 8
Exhibit A

353

R37E

R38E

R38E

R39E

T 21 S

2-37

2-38

2300

2280

2260

2240

2220

2200

2180

2160

2140

2120

2100

2080

2060

2040

2020

2000

1980

1960

1940

1920

1900

1880

1860

1840

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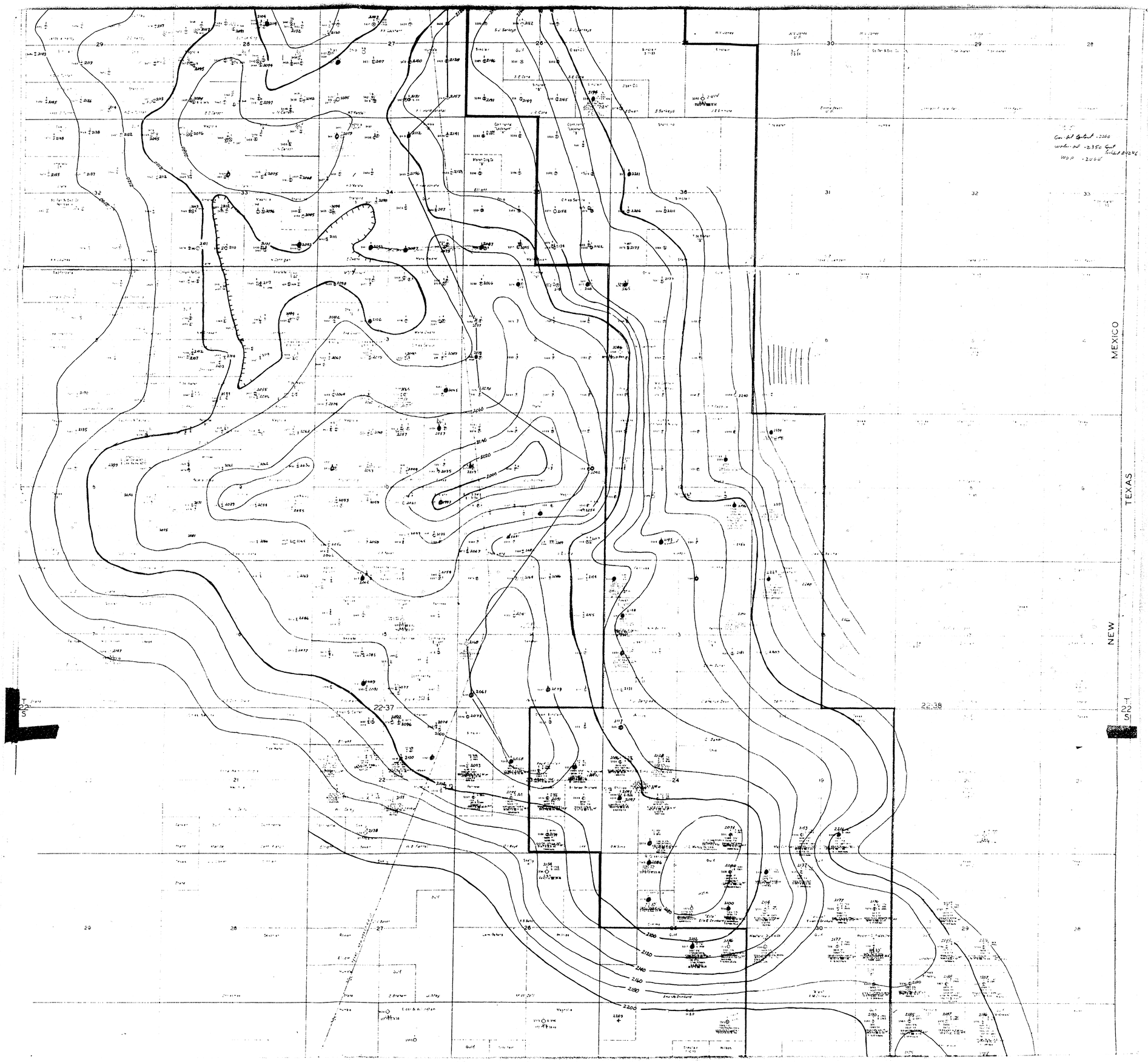
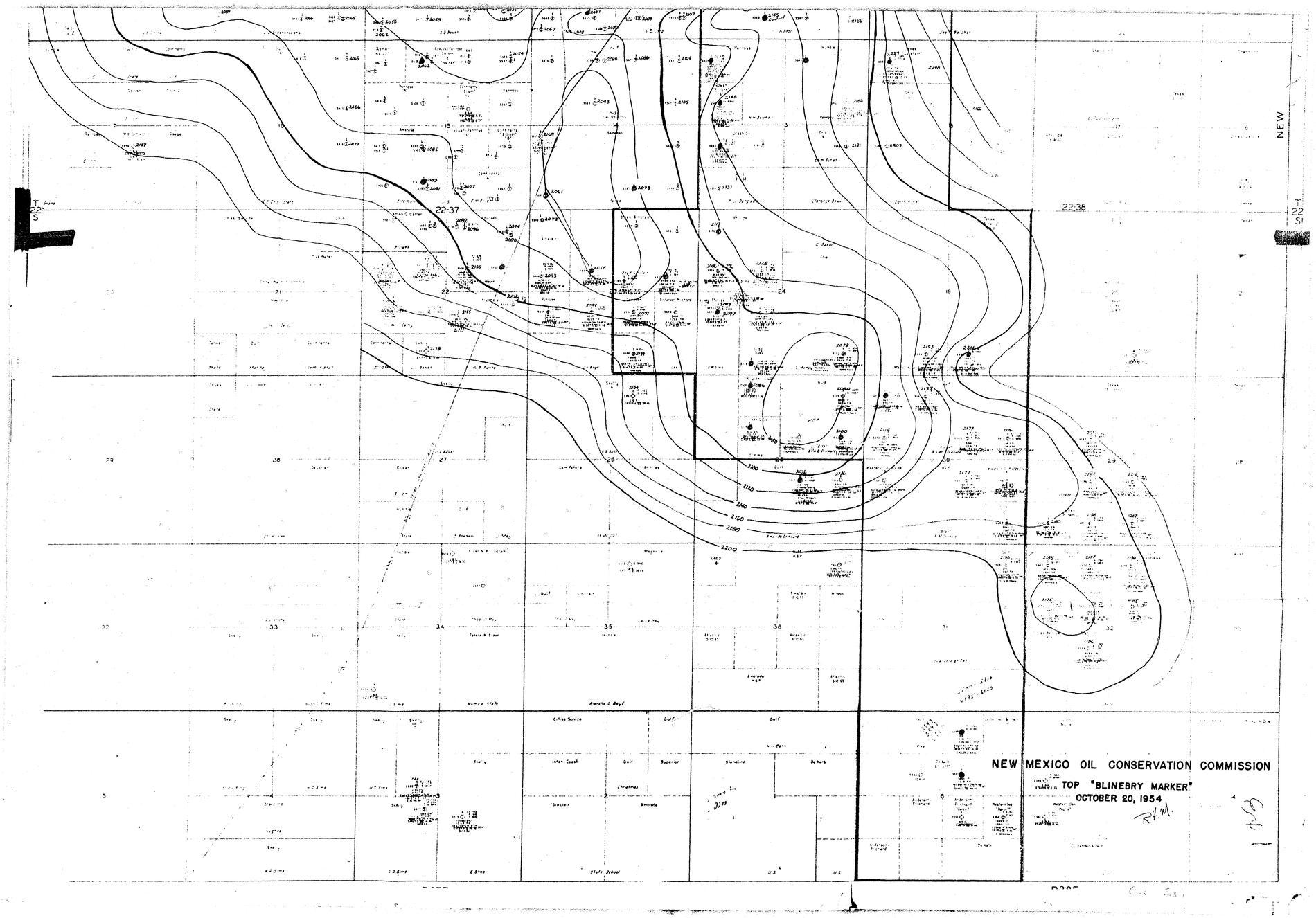


MEXICO
TEXAS
NEW
T 22 S
22-37
22-38
2100
2120
2140
2160
2180
2200


T 22 S
22-37
22-38
NEW
T 22 S
2100
2120
2140
2160
2180
2200
NEW MEXICO OIL CONSERVATION COMMISSION
TOP "BLINEBRY MARKER"
OCTOBER 20, 1954
R.F.M.

355

356

R37E

R38E

R38E

R39E

T 21 S

T 21 S

GAS CONDENSATE RATIO

AUGUST 1954

- LESS THAN 25,000
- 25 - 50
- 50 - 75
- 75 - 100
- 100 +

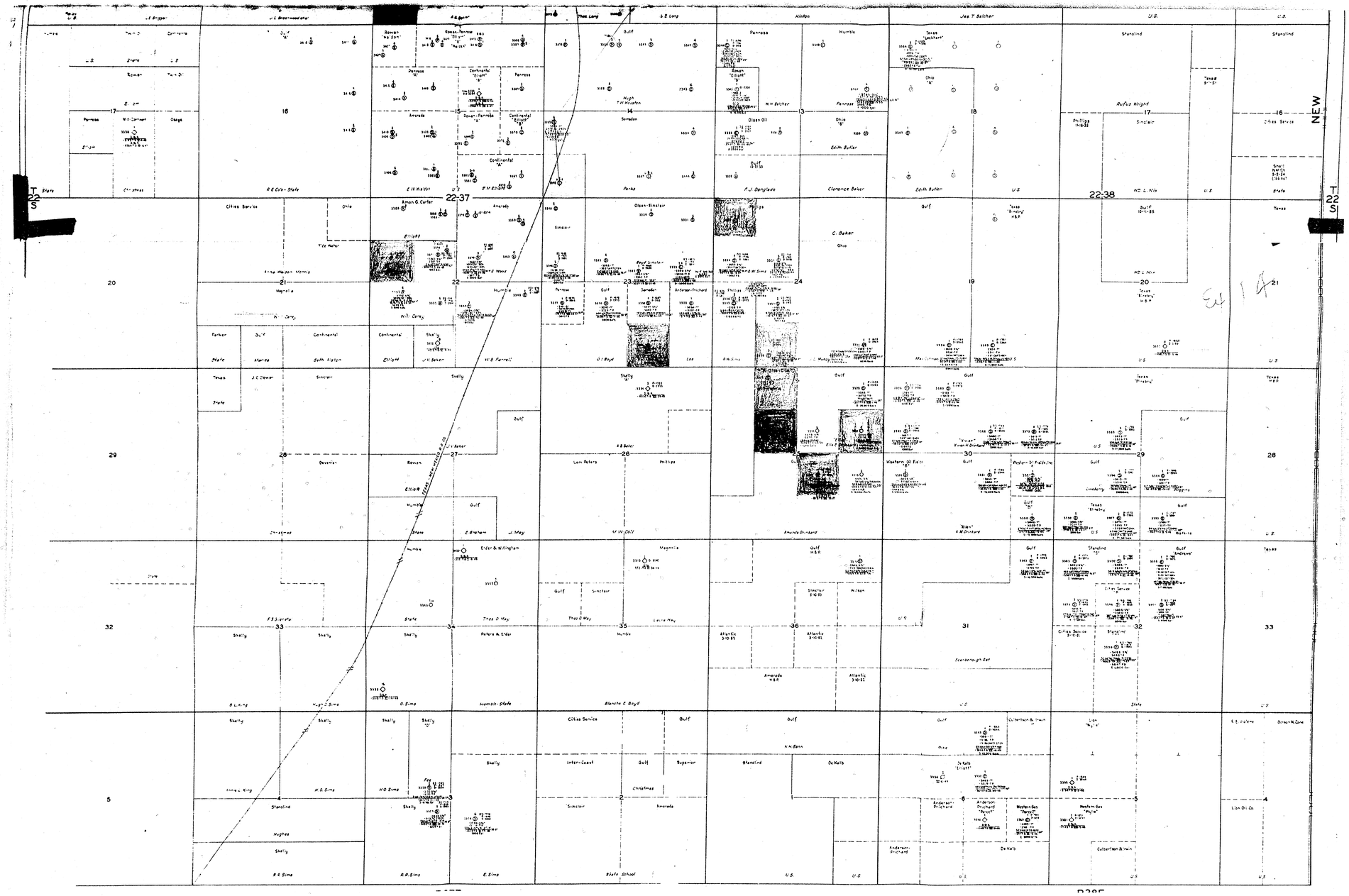
21-38

TEXAS

NEW MEXICO

T 22 S

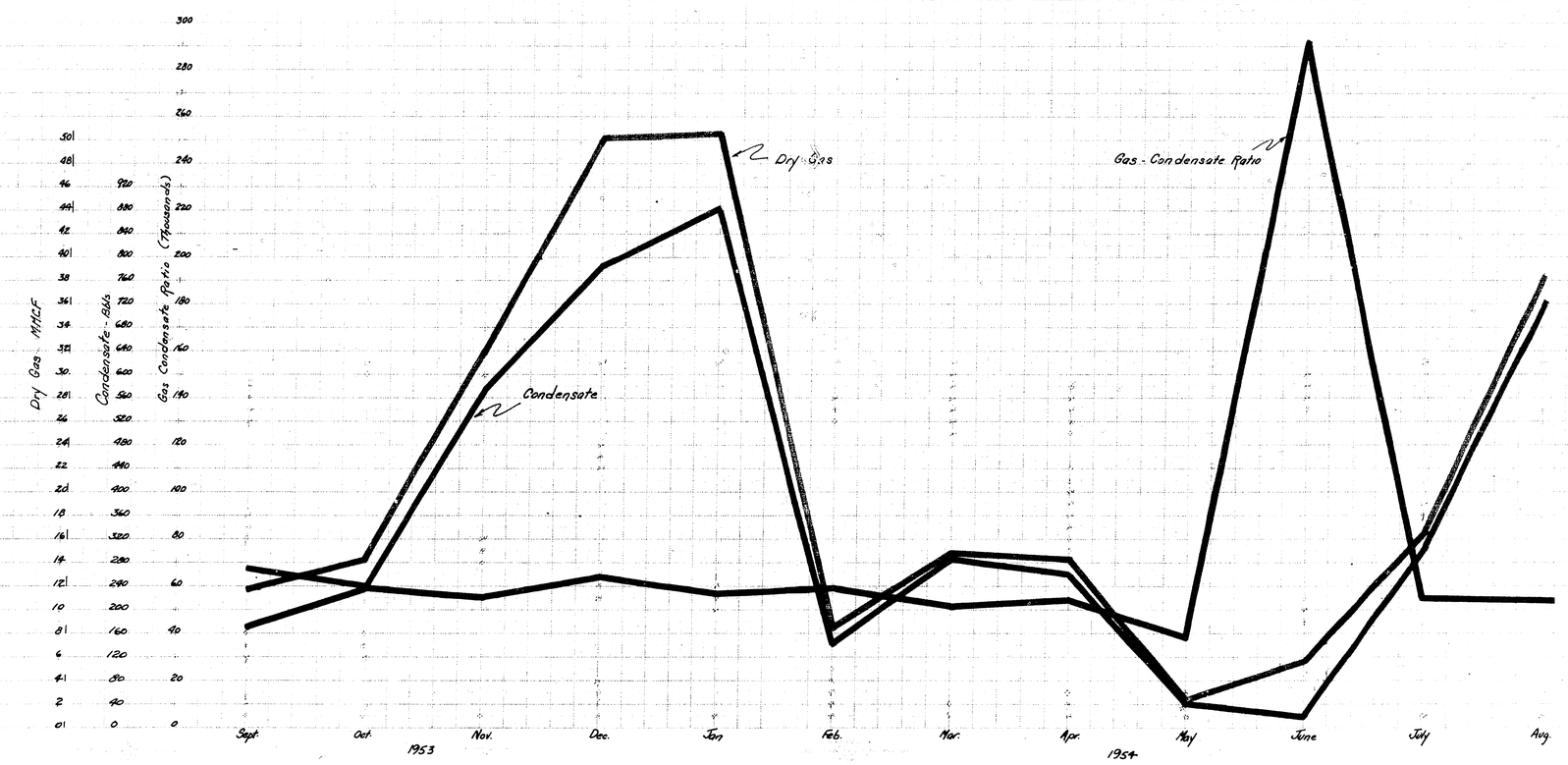
357


T 22 S
22-37
22:38
NEW
T 22 S
Sec 14
Texas
Gulf
Humble
Pennzoil
Skelly
Continental
Amerada
Sinclair
Cities Service
Ohio
Stanolind
Shell
Phillips
Atlantic
Standard of Ind.
Tex. Pac.
Hancock
Superior
Inter-Coast
Magnolia
Western Gas
Anderson-Prichard
Lion Oil Co.
Stanolind
Humble-State
Elliott
Hughes
Scarborough Est.
Blanche E. Boyd
U.S.
State

358

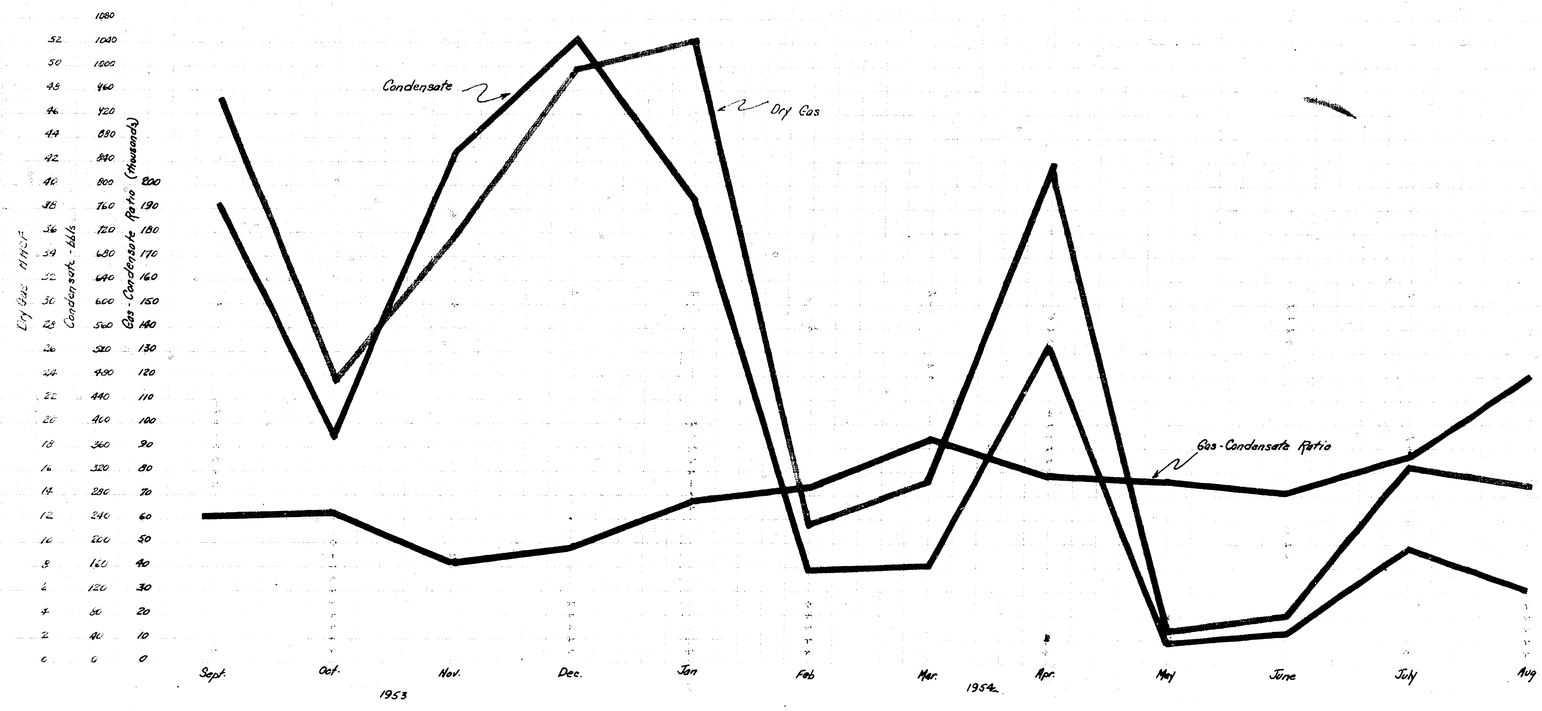
E. F. Moran
Owen #2
14 - 21 - 37

#15



Olsen Oil
Boyd # 2
23-22-37

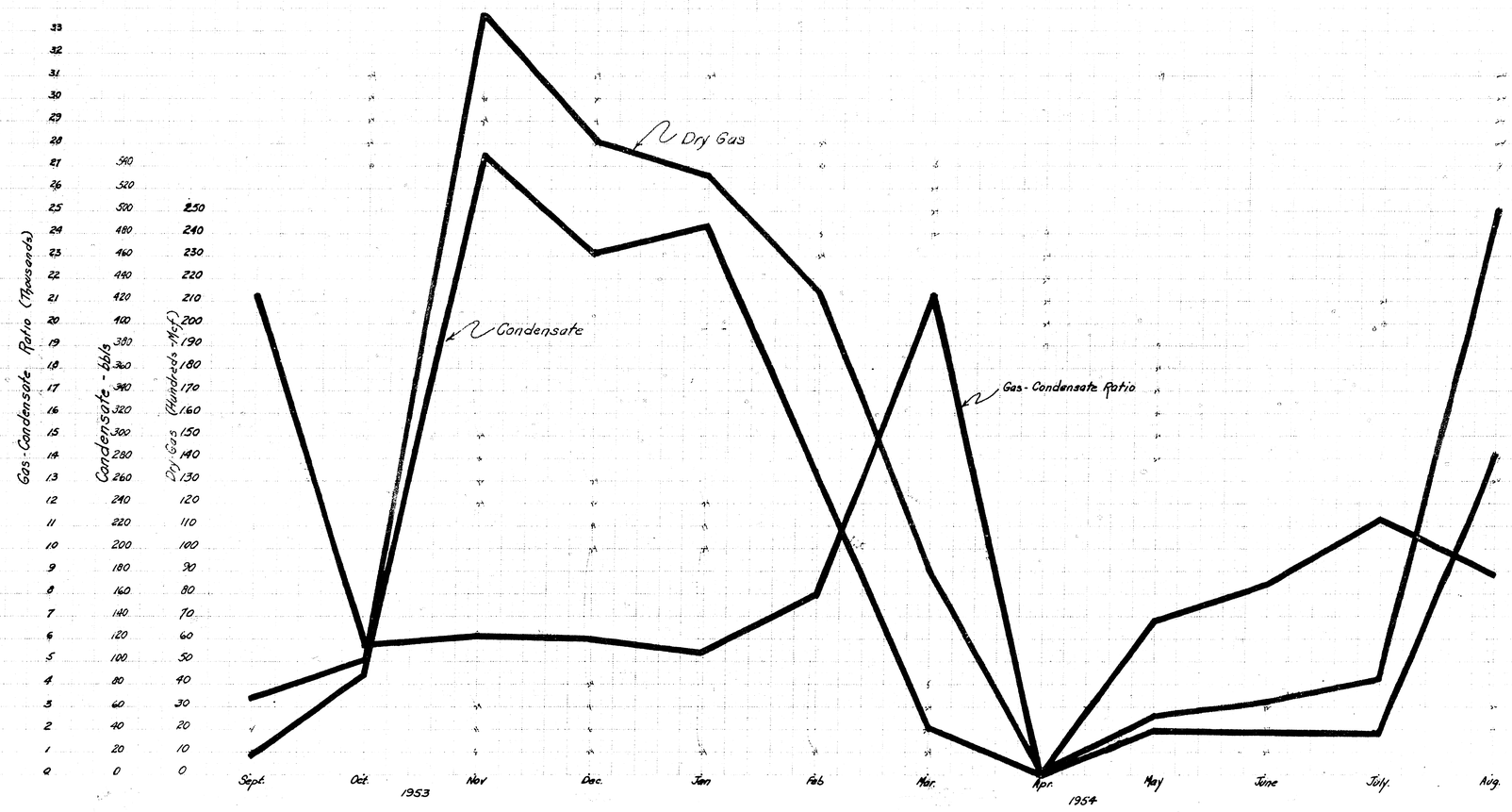
#16



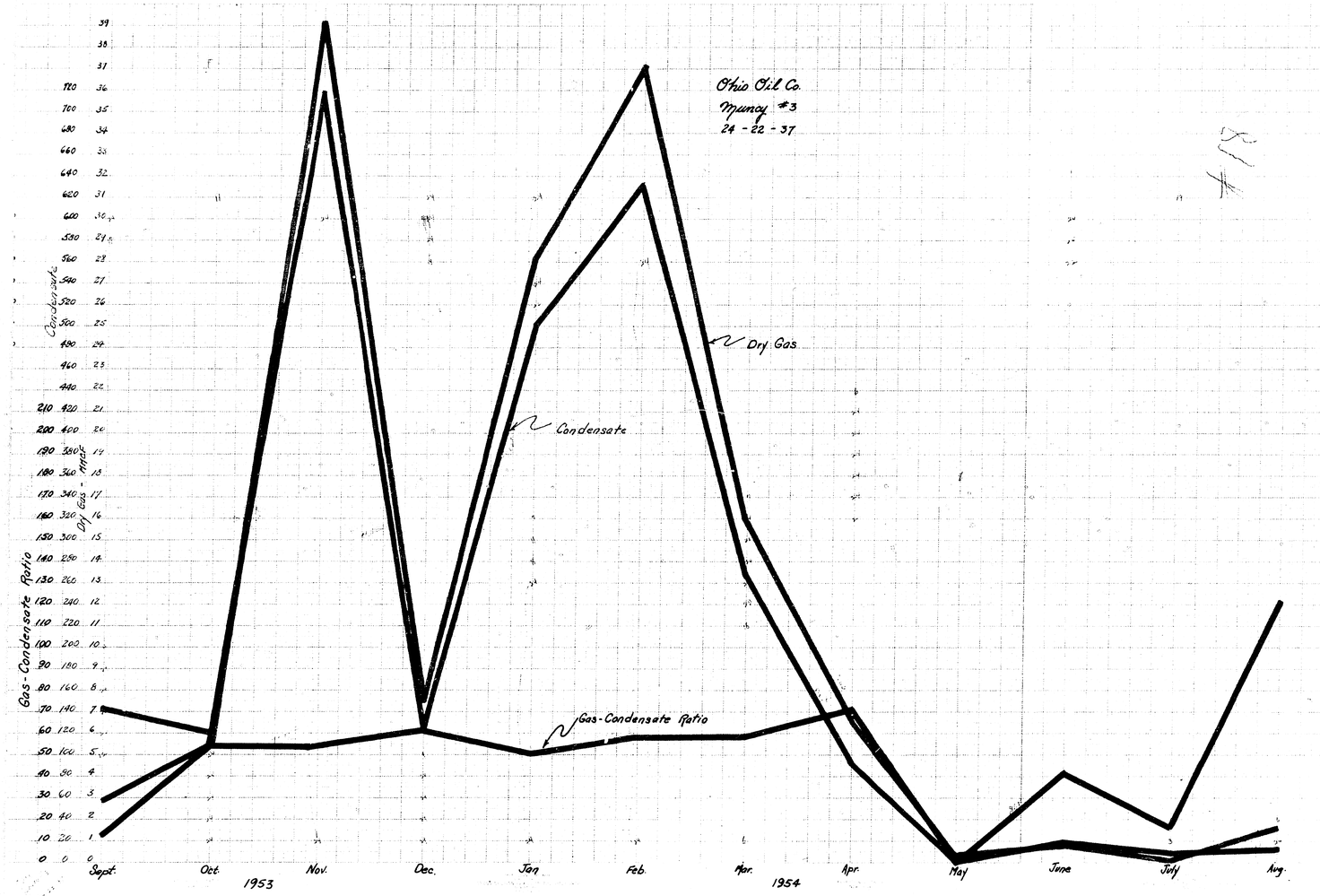
360

Joklan Prod. Co.
Williamson #2
23-21-37

#17



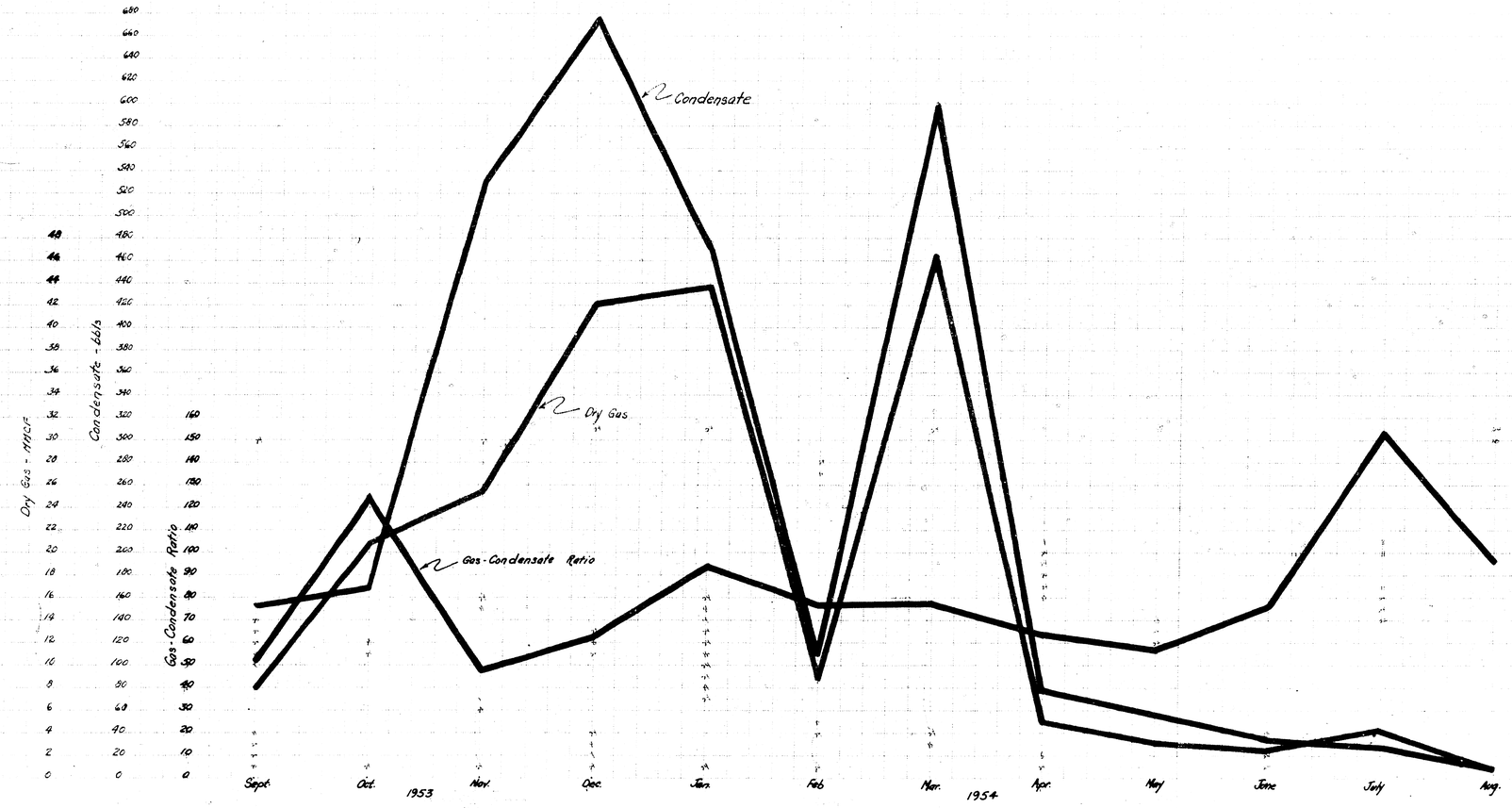
361


Ohio Oil Co.
Muncy #3
24 - 22 - 37
Dry Gas
Condensate
Gas-Condensate Ratio
Condensate
Dry Gas - Mcf
Gas-Condensate Ratio
Sept.
Oct.
Nov.
Dec.
Jan.
Feb.
Mar.
Apr.
May
June
July
Aug.
1953
1954

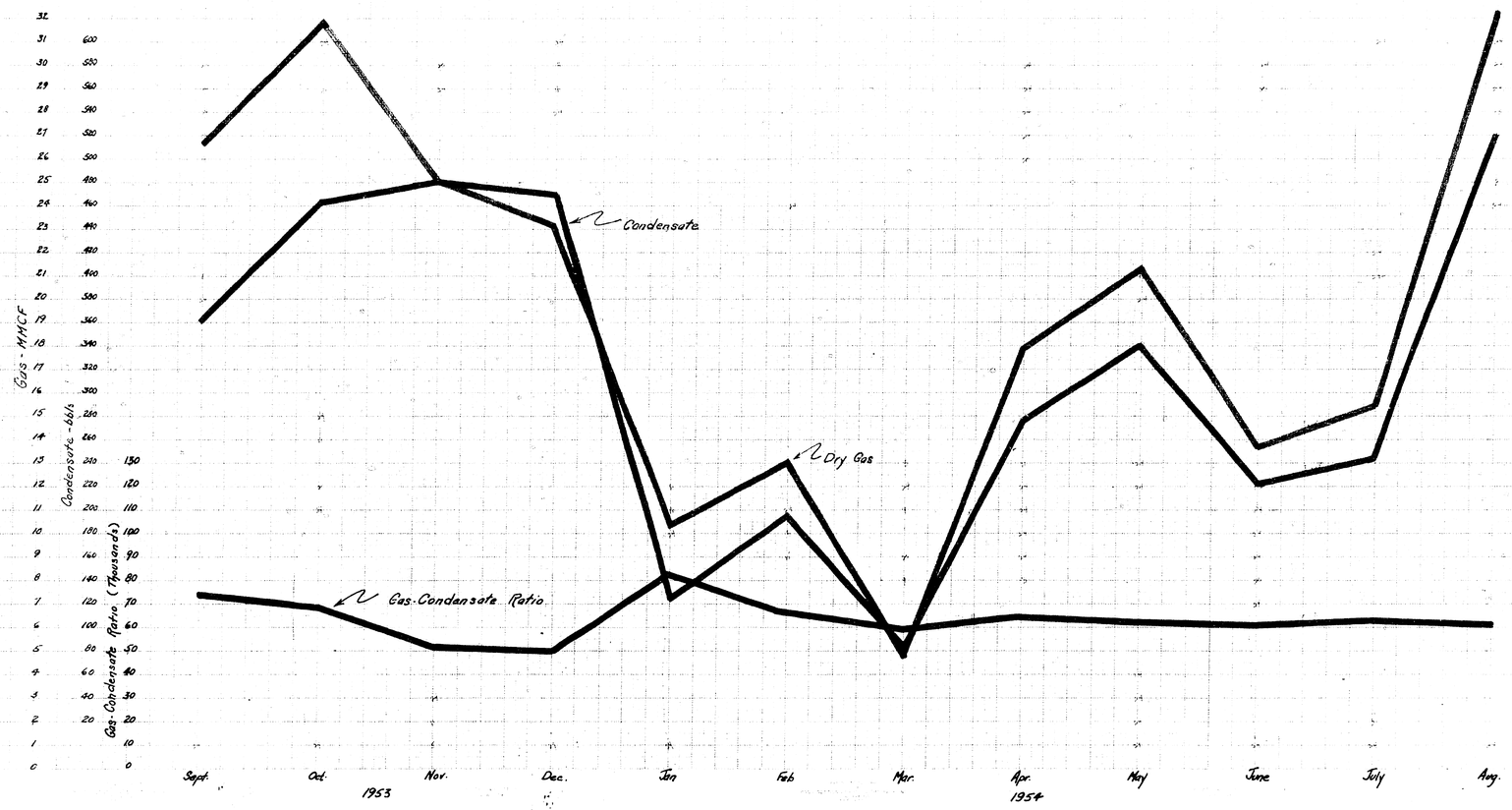
362

19

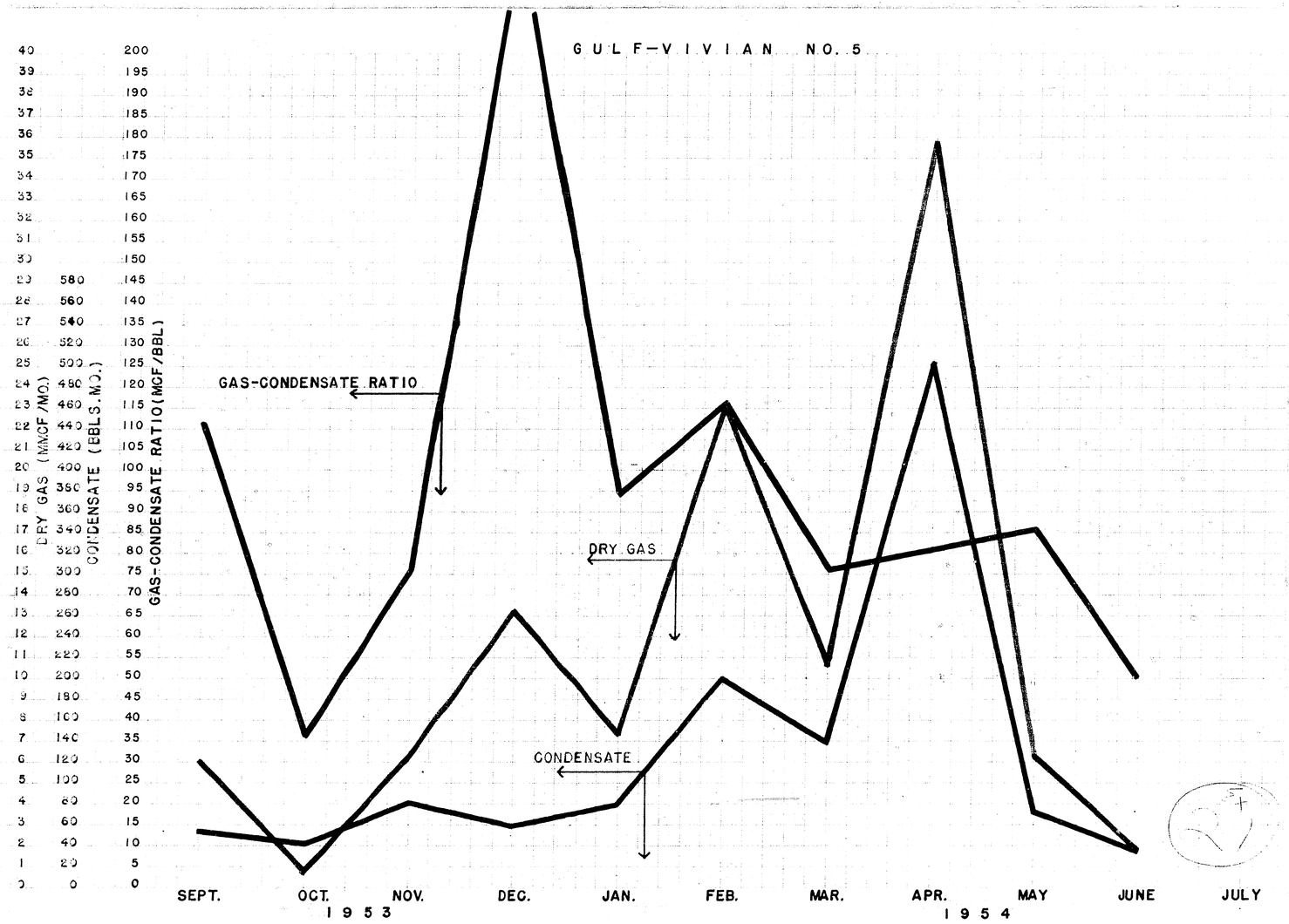
Tidewater Associated Oil Co.
Sarkys #3
26 - 21 - 37

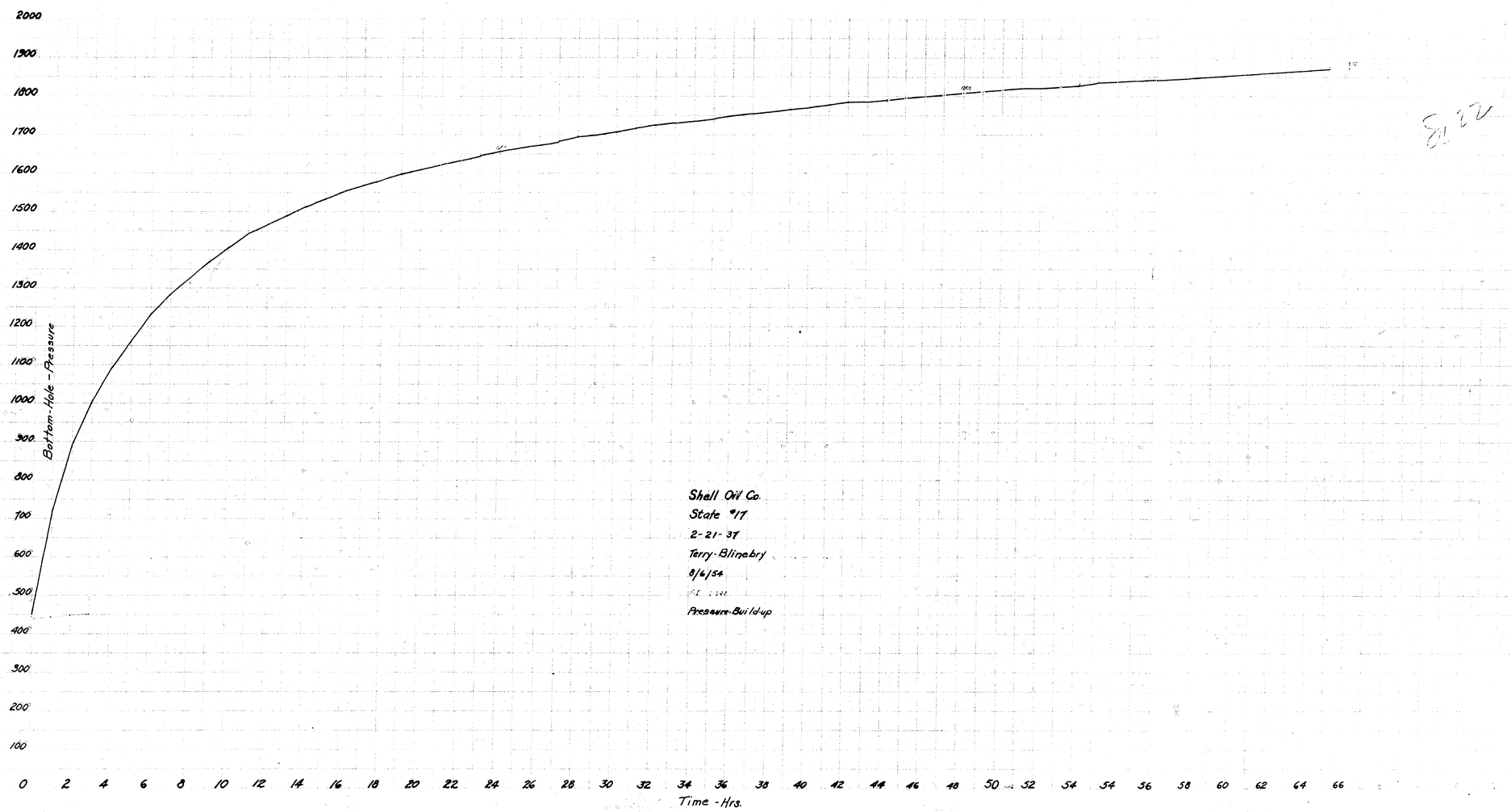


Sinclair Oil & Gas Co.
Seekys #1
23 - 21 - 37

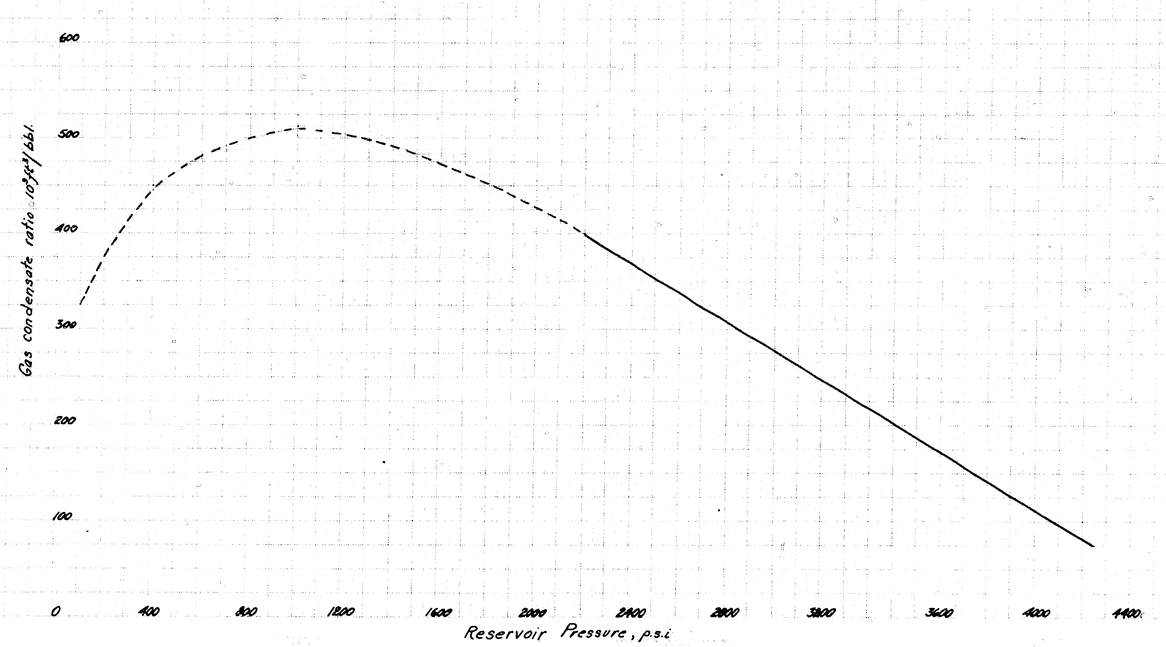


364


GULF—VIVIAN NO. 5
GAS-CONDENSATE RATIO
DRY GAS
CONDENSATE
DRY GAS (MMCF/MO.)
CONDENSATE (BBLS.MO.)
GAS-CONDENSATE RATIO (MCF/BBL)
40 200
39 195
38 190
37 185
36 180
35 175
34 170
33 165
32 160
31 155
30 150
29 580 145
28 560 140
27 540 135
26 520 130
25 500 125
24 480 120
23 460 115
22 440 110
21 420 105
20 400 100
19 380 95
18 360 90
17 340 85
16 320 80
15 300 75
14 280 70
13 260 65
12 240 60
11 220 55
10 200 50
9 180 45
8 100 40
7 140 35
6 120 30
5 100 25
4 80 20
3 60 15
2 40 10
1 20 5
0 0 0
SEPT.
OCT.
NOV.
DEC.
JAN.
FEB.
MAR.
APR.
MAY
JUNE
JULY
1953
1954

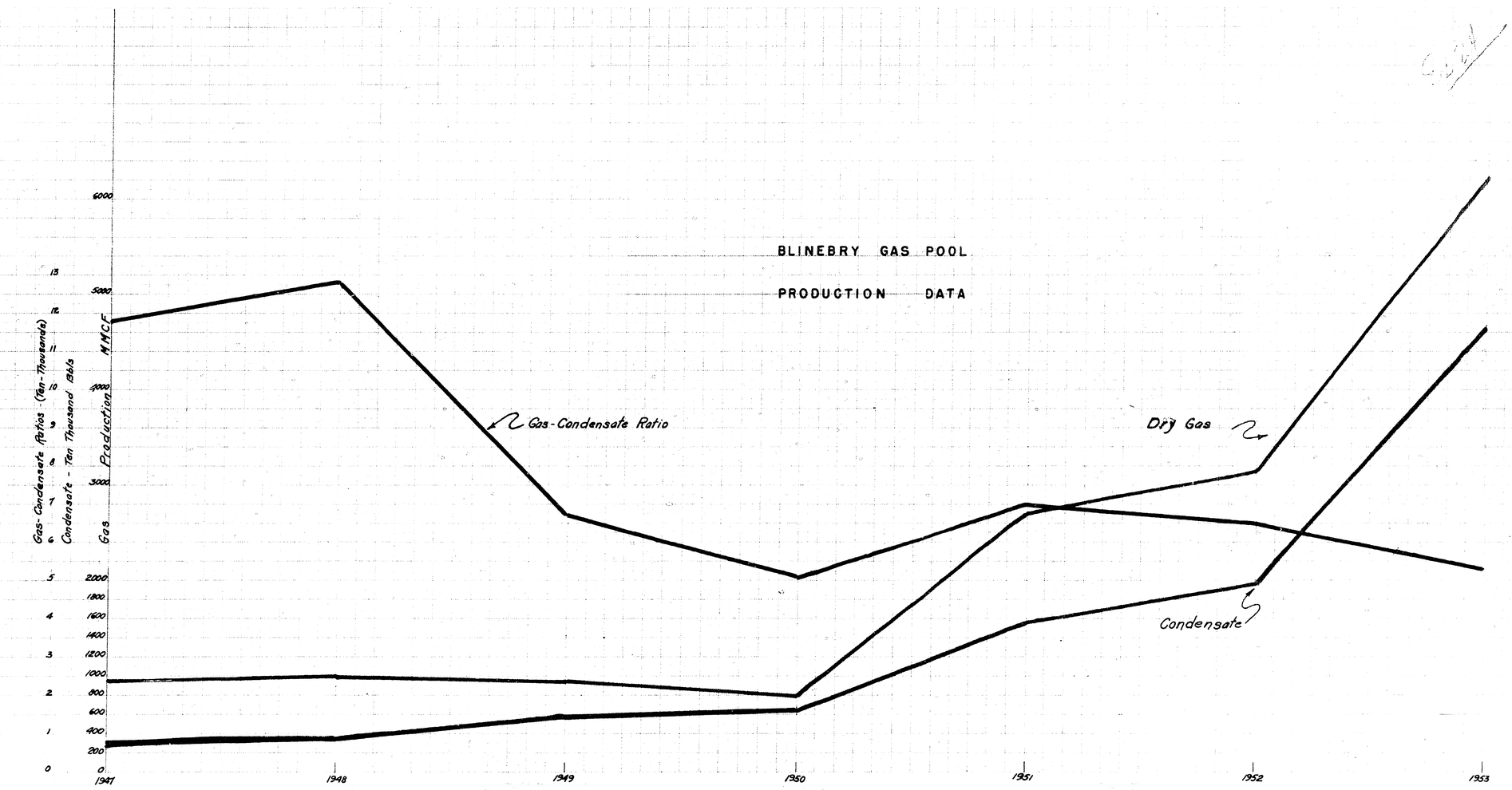

2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
Bottom-Hole-Pressure
0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36 38 40 42 44 46 48 50 52 54 54 56 58 60 62 64 66
Time - Hrs.
Shell Oil Co.
State #17
2-21-37
Terry-Blinebry
8/4/54
Pressure Build-up

366


600
500
400
300
200
100
0
400
800
1200
1600
2000
2400
2800
3200
3600
4000
4400
Gas condensate ratio, 10³cu.ft./bbl.
Reservoir Pressure, p.s.i.

BLINEBRY GAS POOL

PRODUCTION DATA



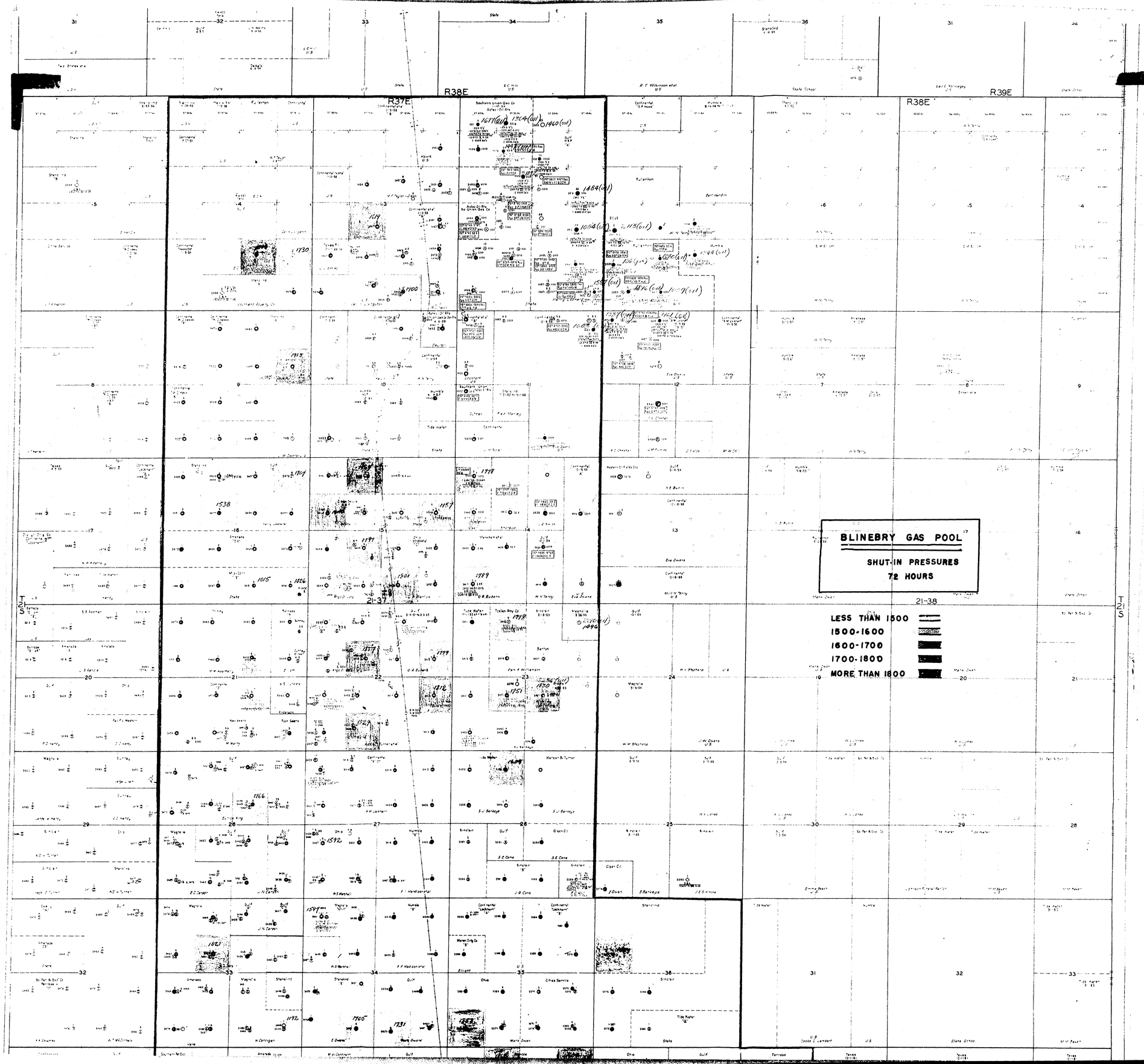
369

1953 Production Data

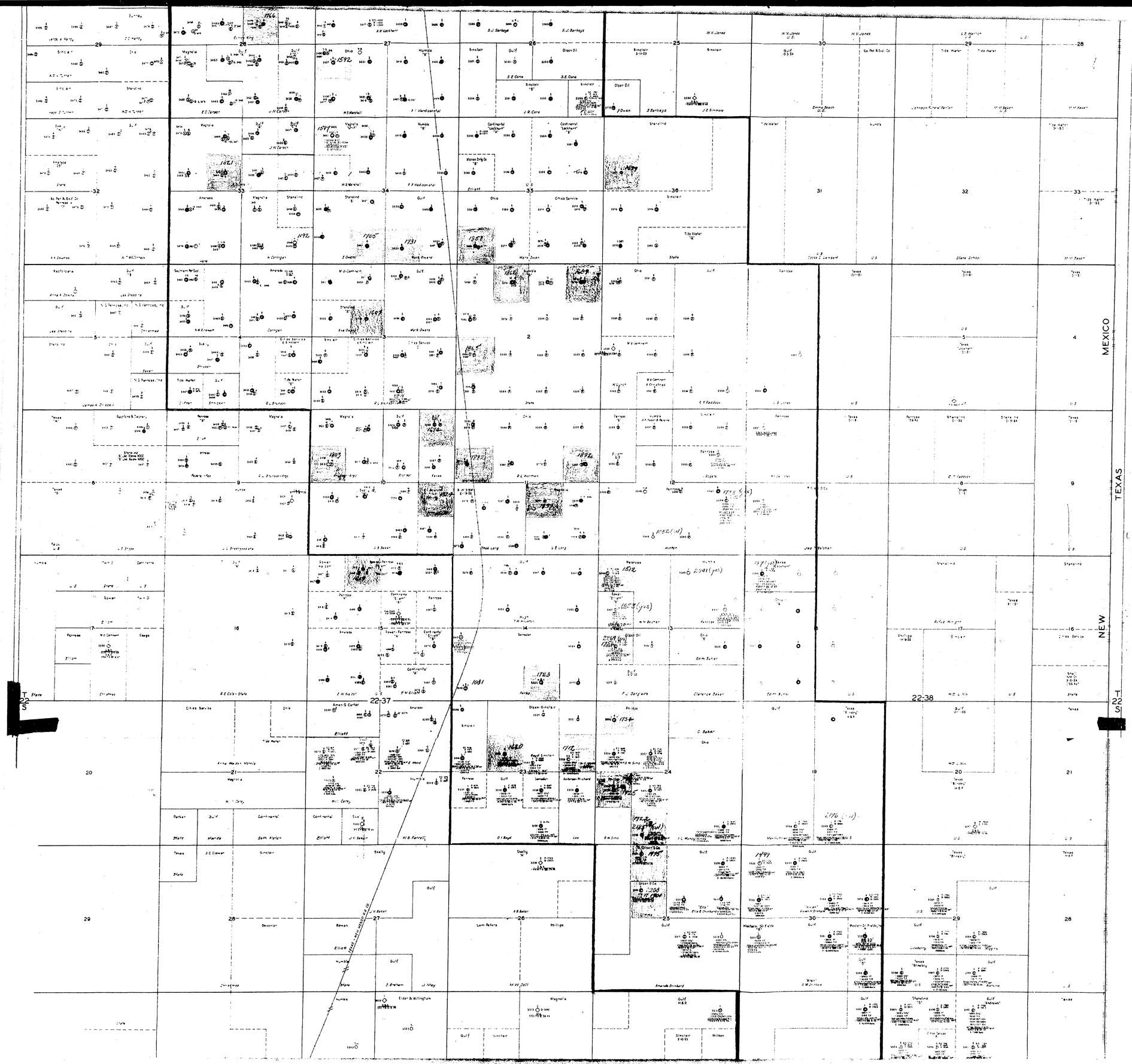
Blinebry Gas	6227,287 mcf	$	591,592	41.6%
Blinebry Condensate	117,311 bbls		322,605	22.6%
Terry Blinebry Oil	142,517 bbls		391,921	35.8%
Blinebry Oil	42654 bbls		117,299	

August 1954 Production Data

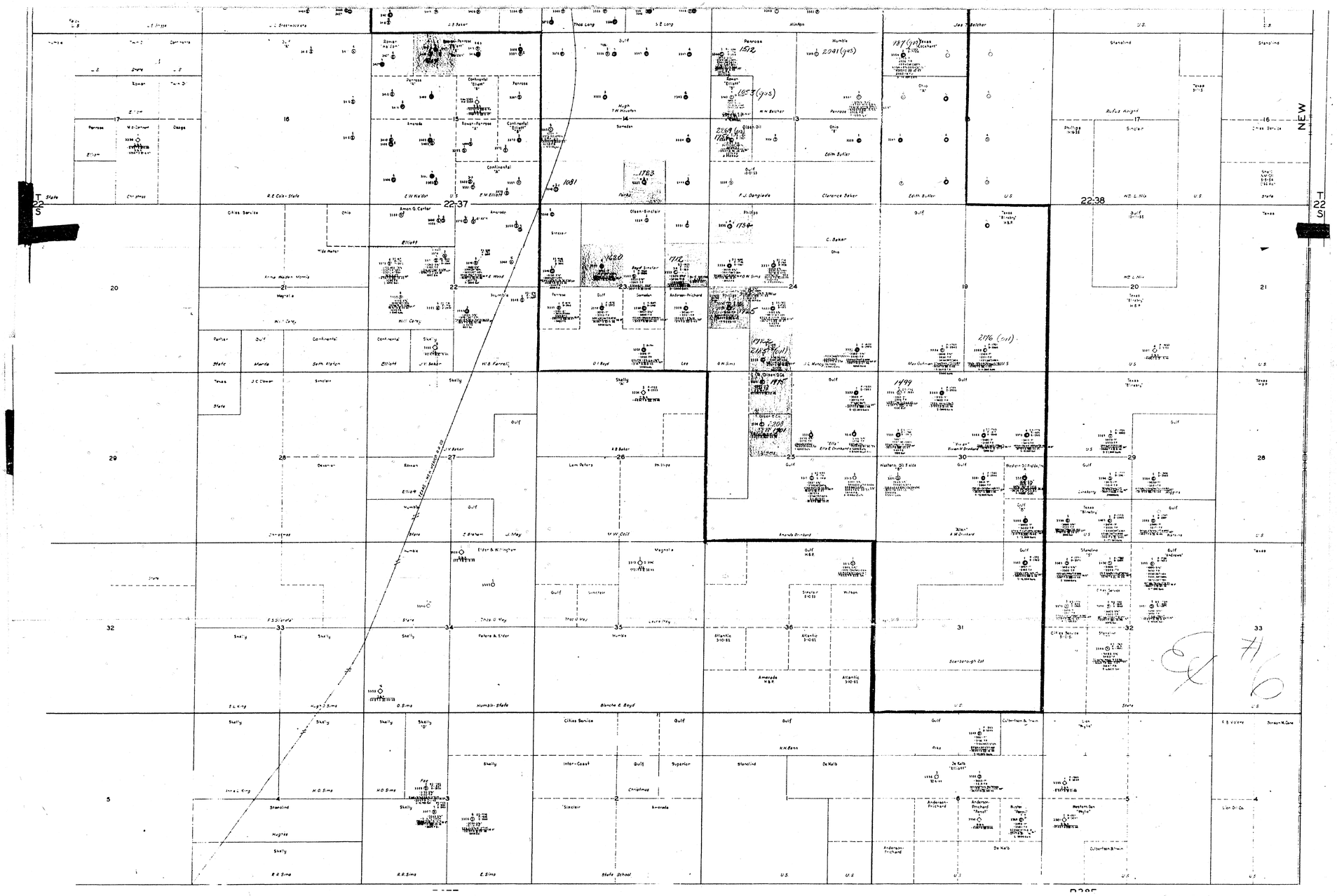
Blinebry Gas	908,377 mcf	$	86296	41.4%
Blinebry Condensate	19031 bbls		52335	25.1%
Terry Blinebry Oil	22.985 bbls		63208	33.4%
Blinebry Oil	2,332 bbls		6,413	


BLINEBRY GAS POOL
SHUT-IN PRESSURES
72 HOURS
LESS THAN 1500
1500-1600
1600-1700
1700-1800
MORE THAN 1800
R37E
R38E
R39E
T 21 S
21-37
21-38

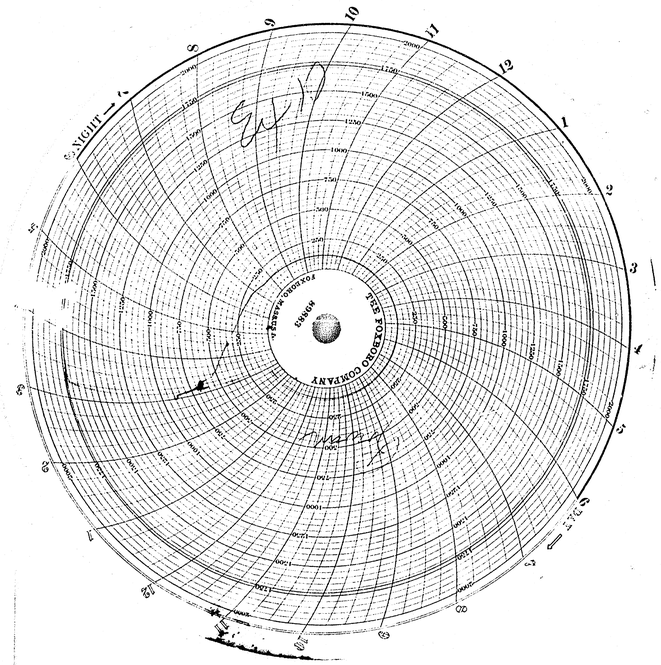
370



371


T 22 S
22-37
22-38
NEW
Texas
Humble
Gulf
Pennzoil
Continental
Sinclair
Shell
Amerada
Ohio
Stanolind
Skelly
Magnolia
Atlantic
Superior
Cities Service
Inter-Coast
Anderson-Prichard
Plymouth
Lion
Rufus Angel
Hughes
Christmas
Laura May
Thos. D. May
Blanche E. Boyd
State School
U.S.

372



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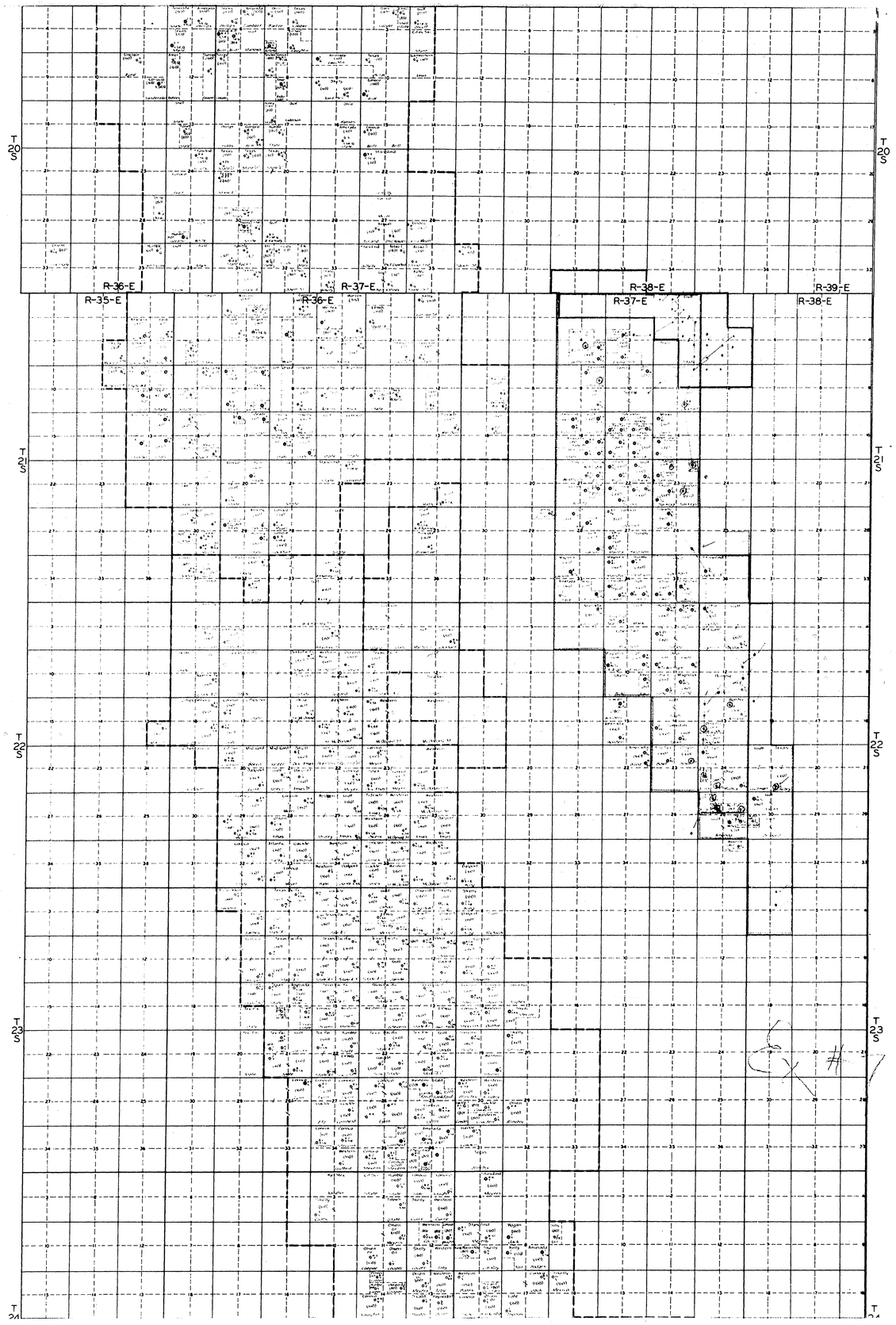
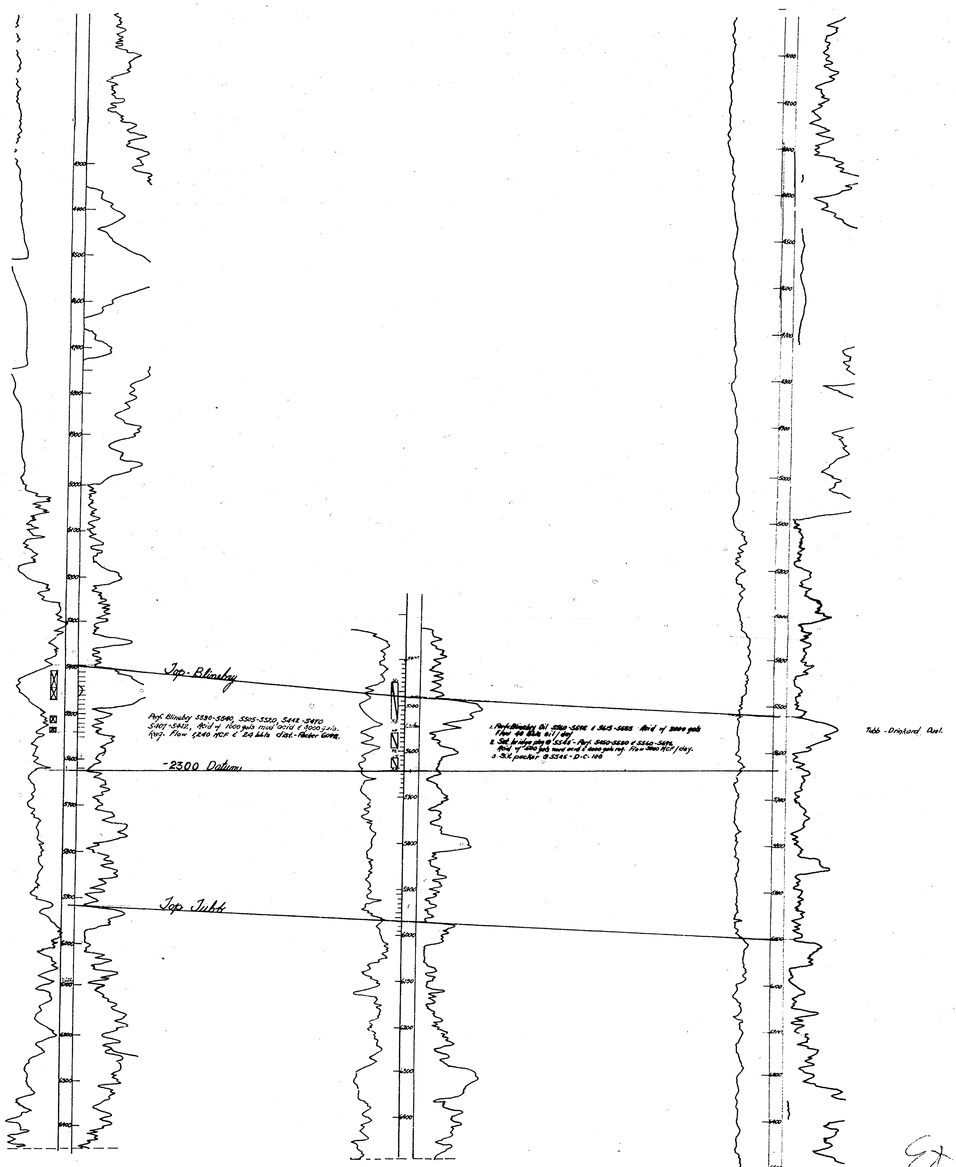

T 20 S
R-36-E
R-37-E
R-38-E
R-39-E
R-35-E
R-36-E
R-37-E
R-38-E
T 21 S
T 22 S
T 23 S
T 24

374

SAMEDAN OIL CORP.
PARKS NO. 5
14 - 22 - 37

ROWAN DRLG CO.
ELLIOT B-13 #1
13 - 22 - 37

HUMBLE OIL & RFG.
PENROSE NO. 2
13 - 22 - 37



SCALE 1" = 200'

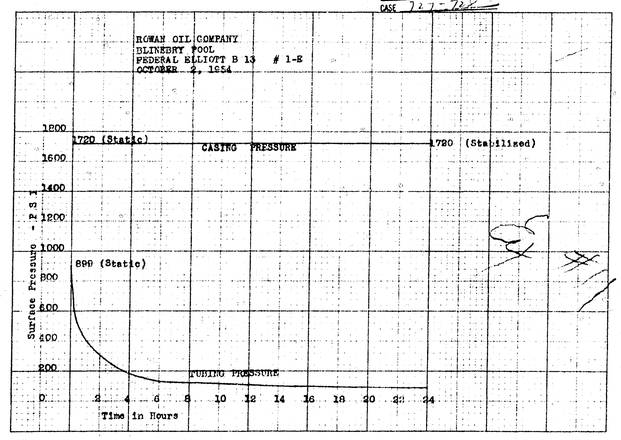
S.J.S

375

Et #9

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
OCC EXHIBIT NO. 1
CASE 727 10-20-54

ROWAN OIL COMPANY
BLINEBRY POOL
FEDERAL ELLIOTT B 13 # 1-E
OCTOBER 2, 1954



376

Standlind O. & G. Co.

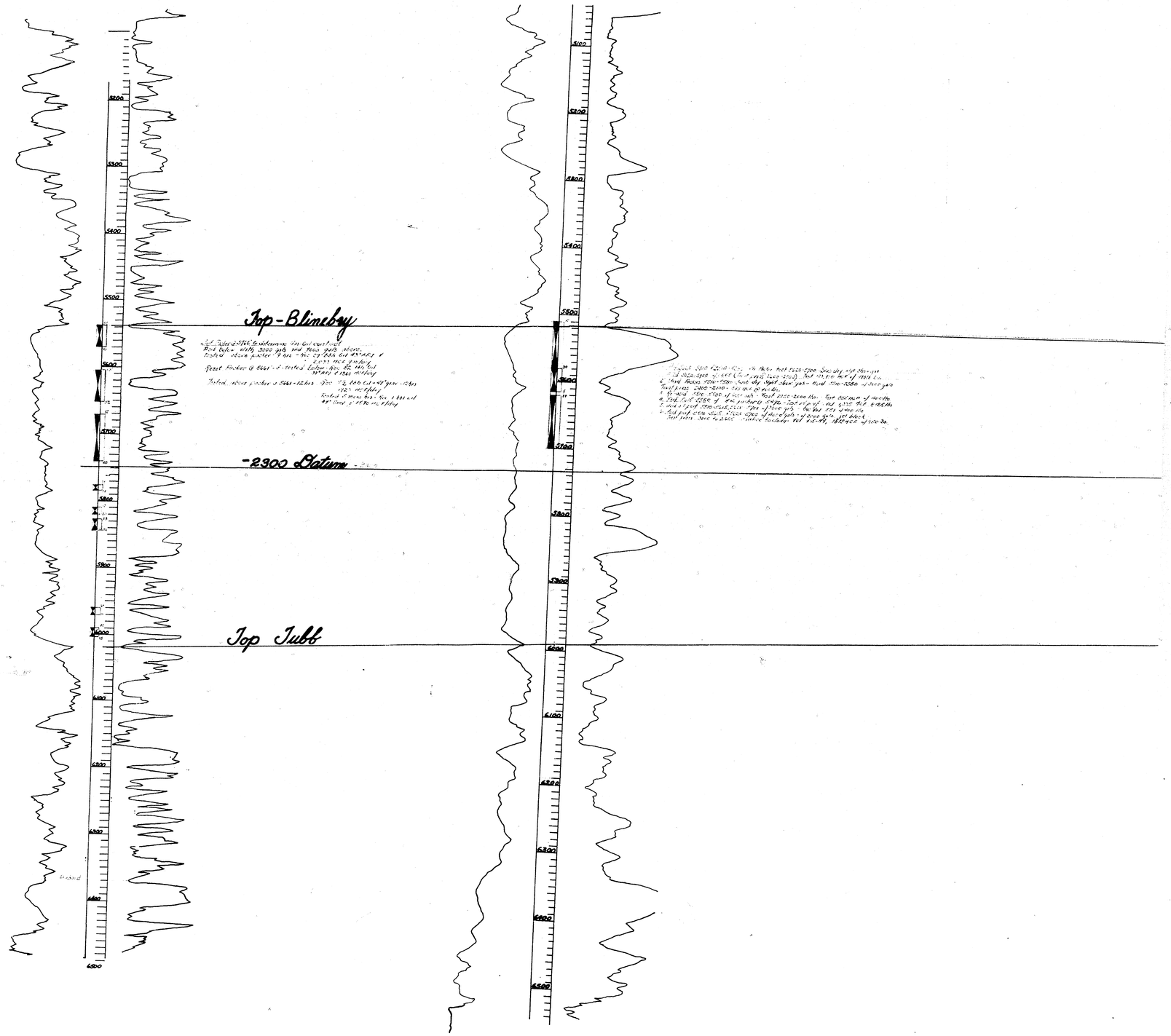
E. Owens B-4

34 - 21 -37

Gulf Oil Corp.

Mark Owens #6

34-21-37

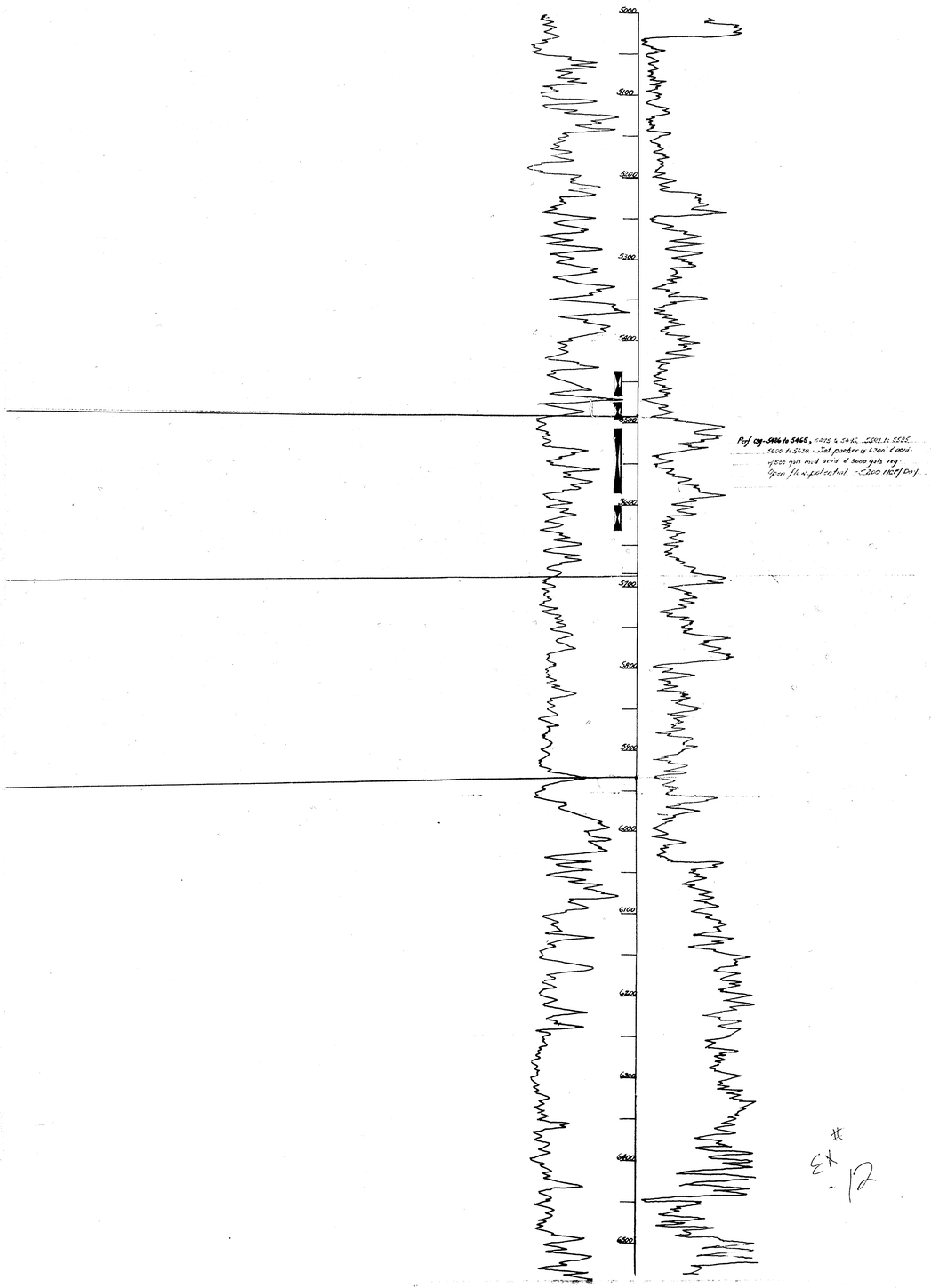


377

OHIO OIL CO.

Mark Owen #2

35 - 21 - 37

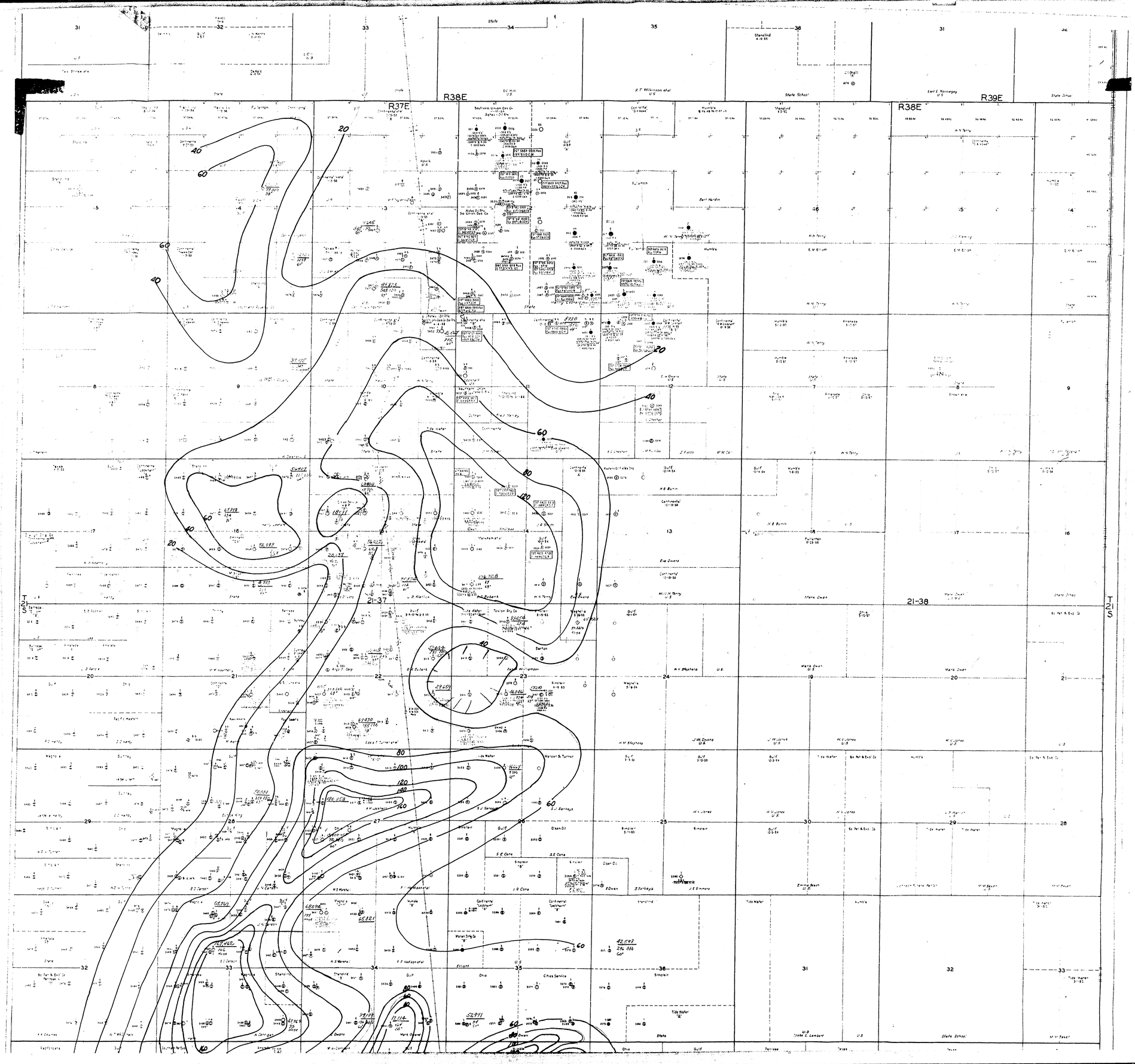


Perf csg - 5446 to 5466, 5475 to 5485, 5501 to 5525
5600 to 5630 - Set packer @ 6200' & acid
4500 gals mud acid & 3000 gals reg.
Open flow potential - 5200 MCF/Day.

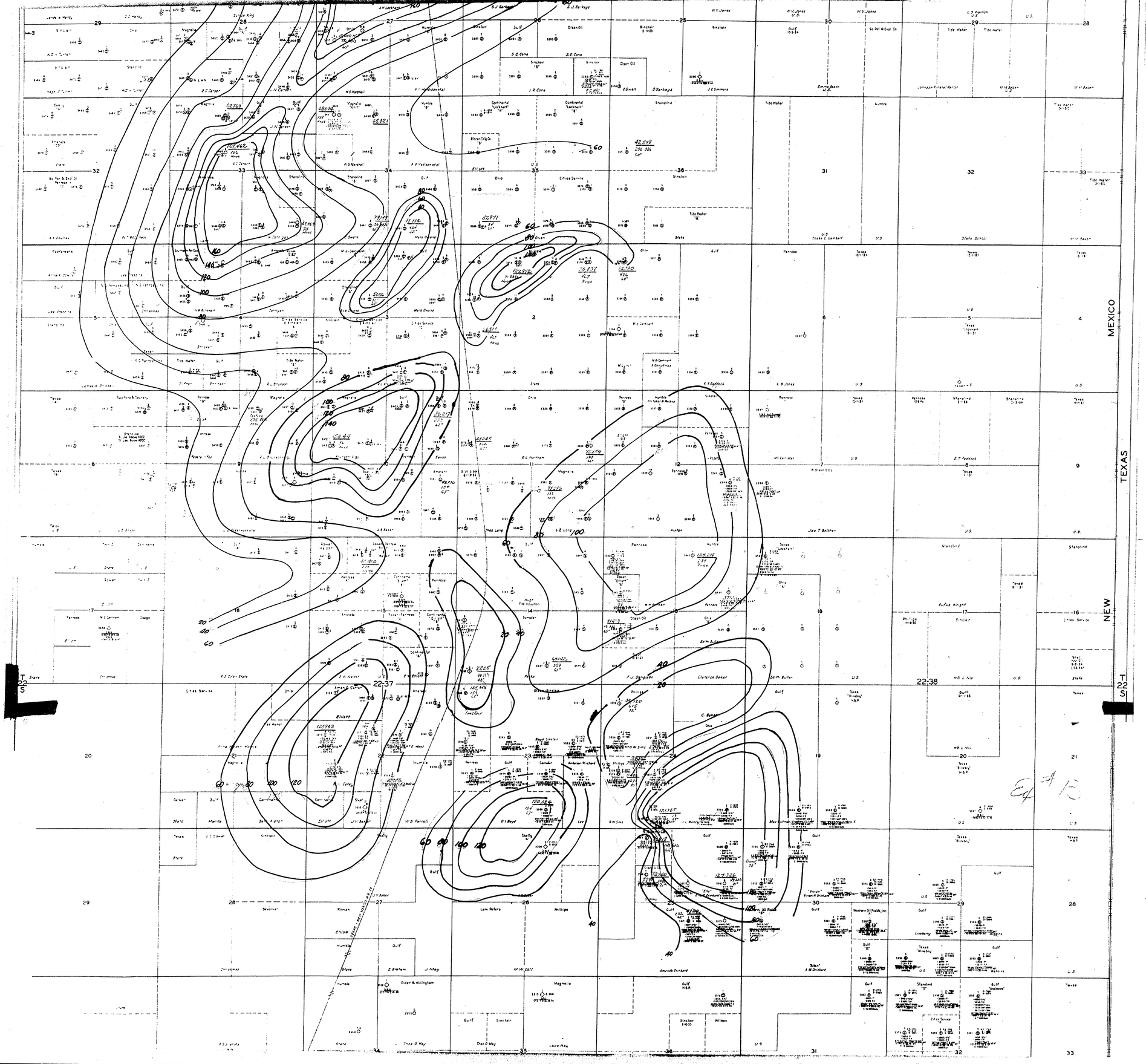
Ex #12

Ex #12

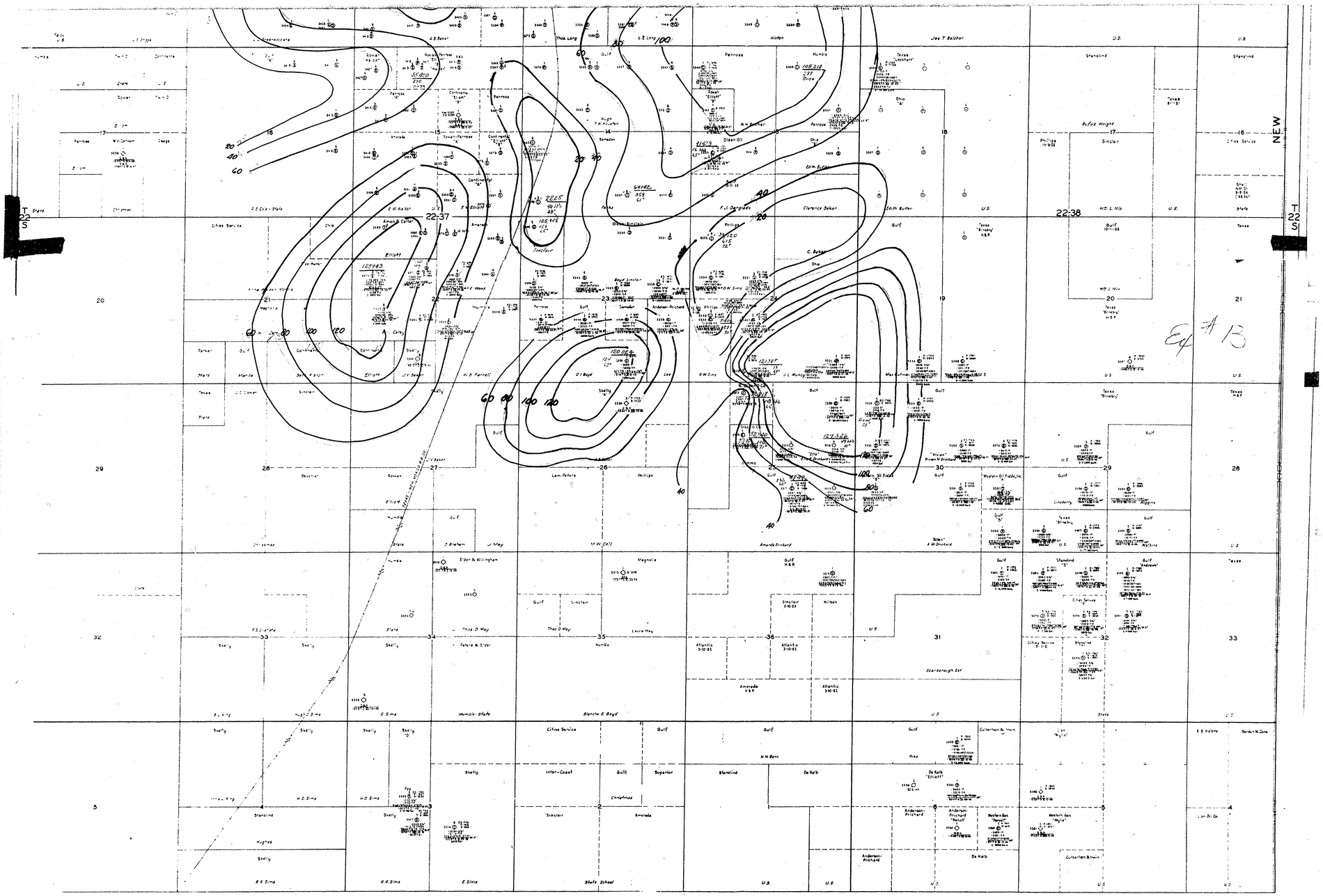
378


R37E
R38E
R38E
R39E
T 21 S
T 21 S
21-37
21-38
20
40
60
80
100
120
140
160

379

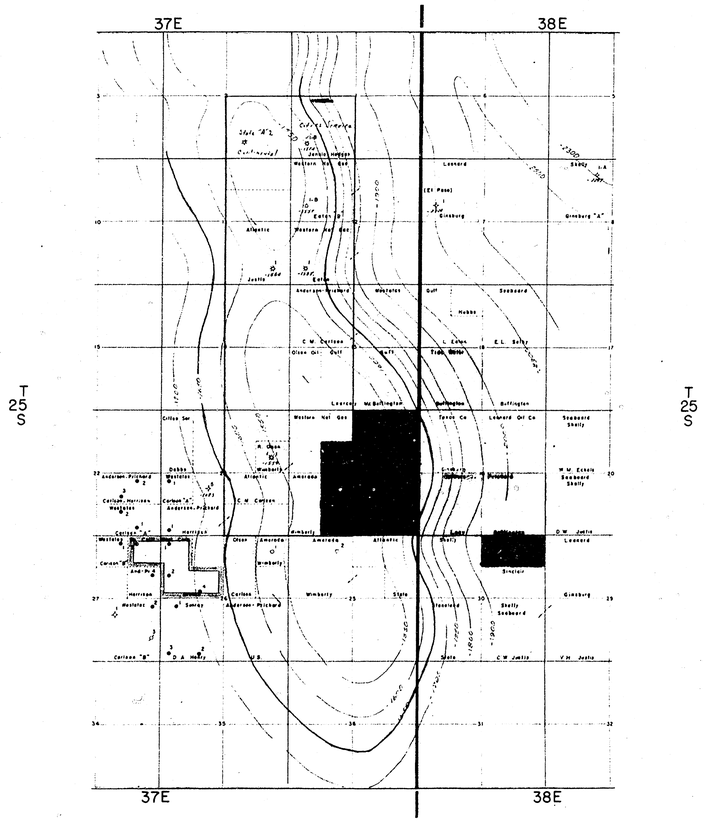

TEXAS
NEW MEXICO
T 22 S
22-37
22-38
Texas-New Mexico State Line
60
80
100
120
140
160
180
20
40

380



381

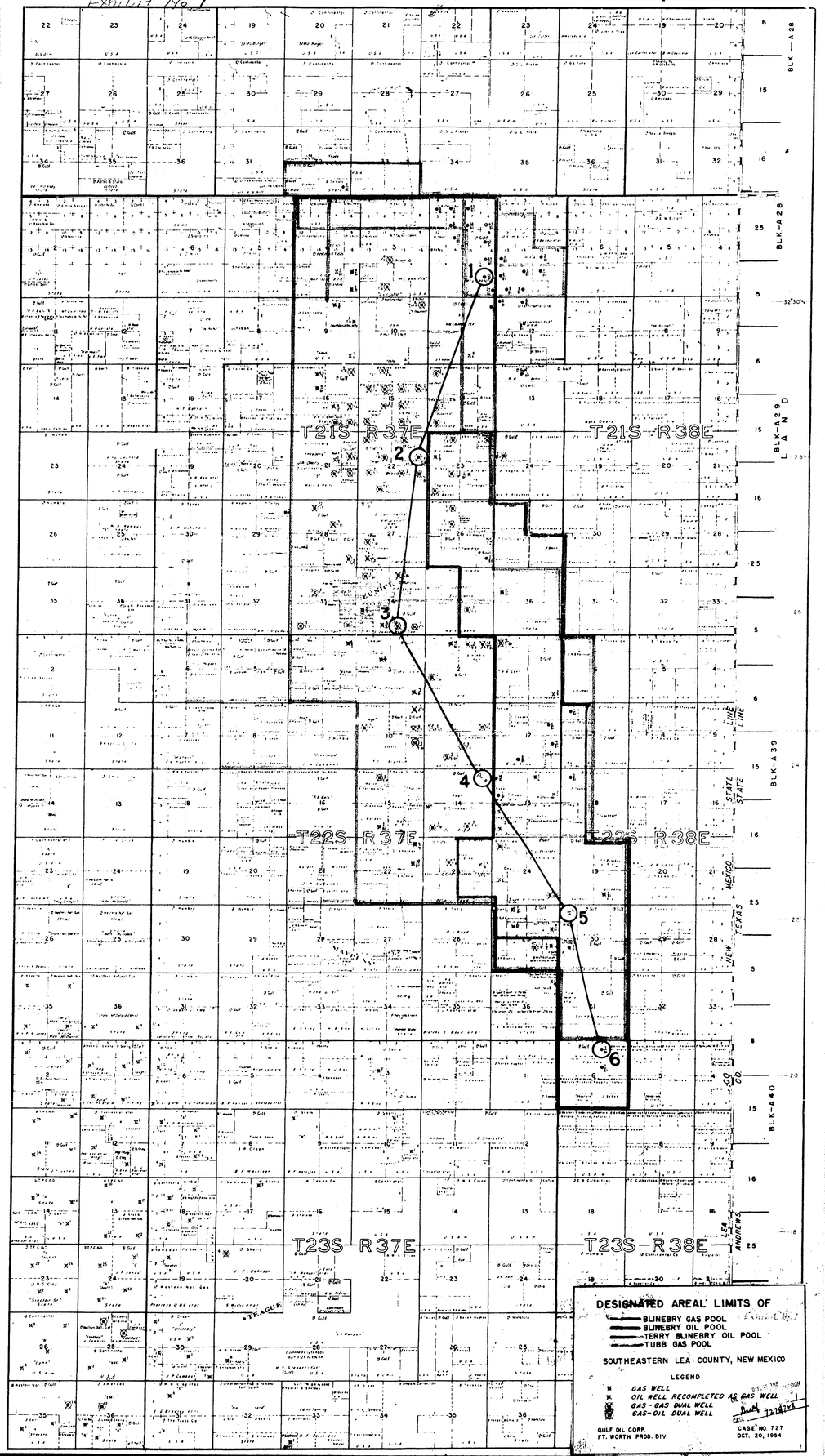
382



TIDE WATER ASSOC. OIL CO.
CONTOURED ON TOP OF GLORIETA
LEA COUNTY, NEW MEXICO
SCALE: 1" = 2000' DATE: 8-25-54

Tidewater
Cx #1
Case 728
from 9-16-54

Exhibit No. 1



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Gulf Exhibit #2

OIL CONSERVATION DIVISION
Gulf No. 1
CASE 727

NORTH - SOUTH CROSS SECTION

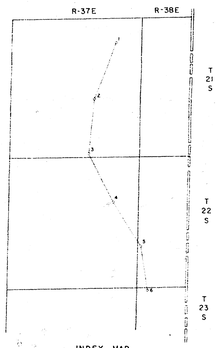
THROUGH BLINEBRY POOLS, SOUTHEASTERN LEA COUNTY, NEW MEXICO

GULF OIL CORPORATION
FORT WORTH PRODUCTION DIVISION

CASE NO. 727
OCTOBER 20, 1954

SCALE

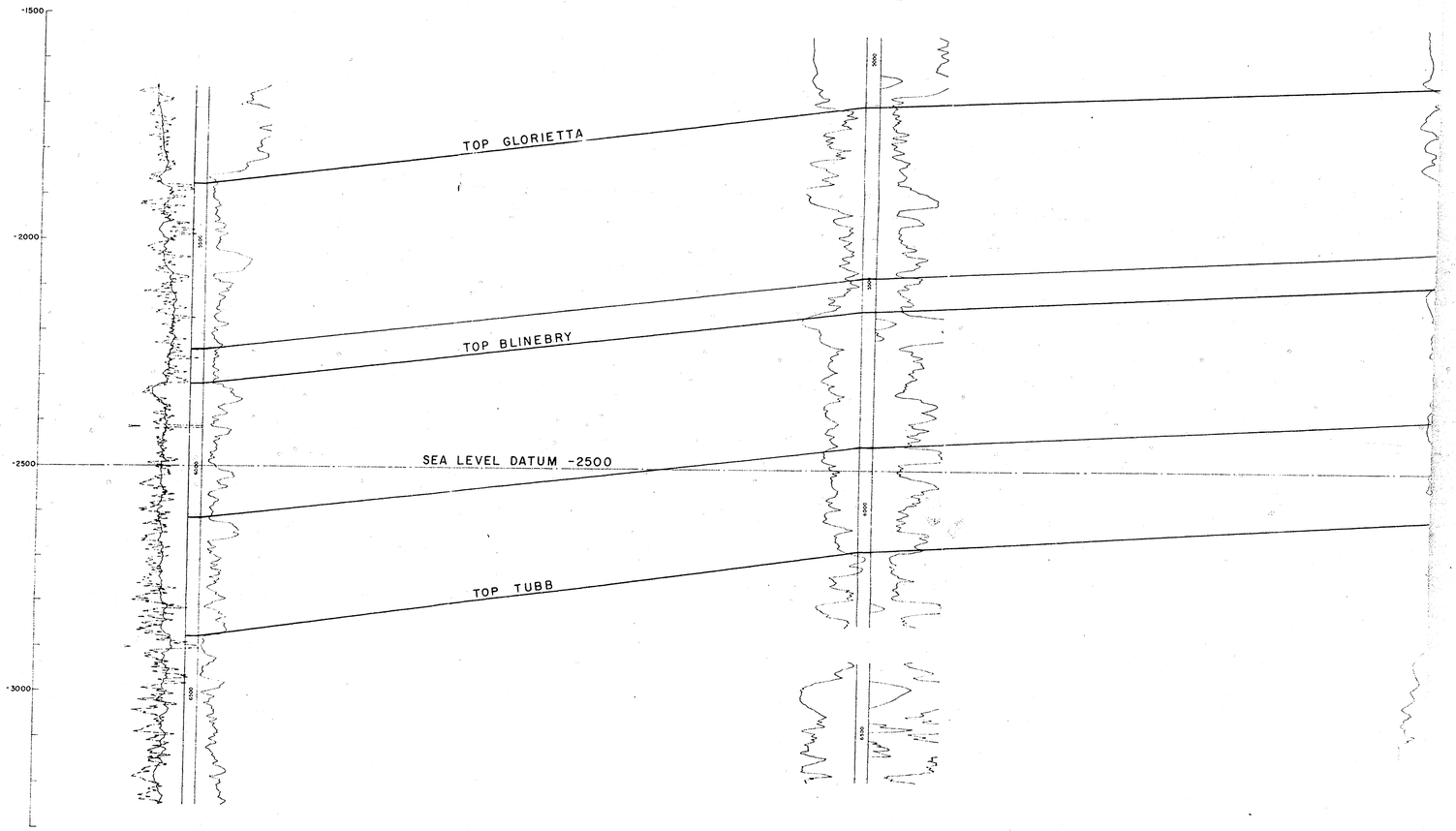
HORIZONTAL SCALE: ——— 1 INCH = 1000 FEET
VERTICAL SCALE: ——— 1 INCH = 100 FEET



INDEX MAP

GULF NO. 31 LEONARD A
2-21S-37E
ELEV. 3492' D.F.
(1)

GULF NO. 4 EUBANK
22-21S-37E
ELEV. 3412' D.F.
(2)



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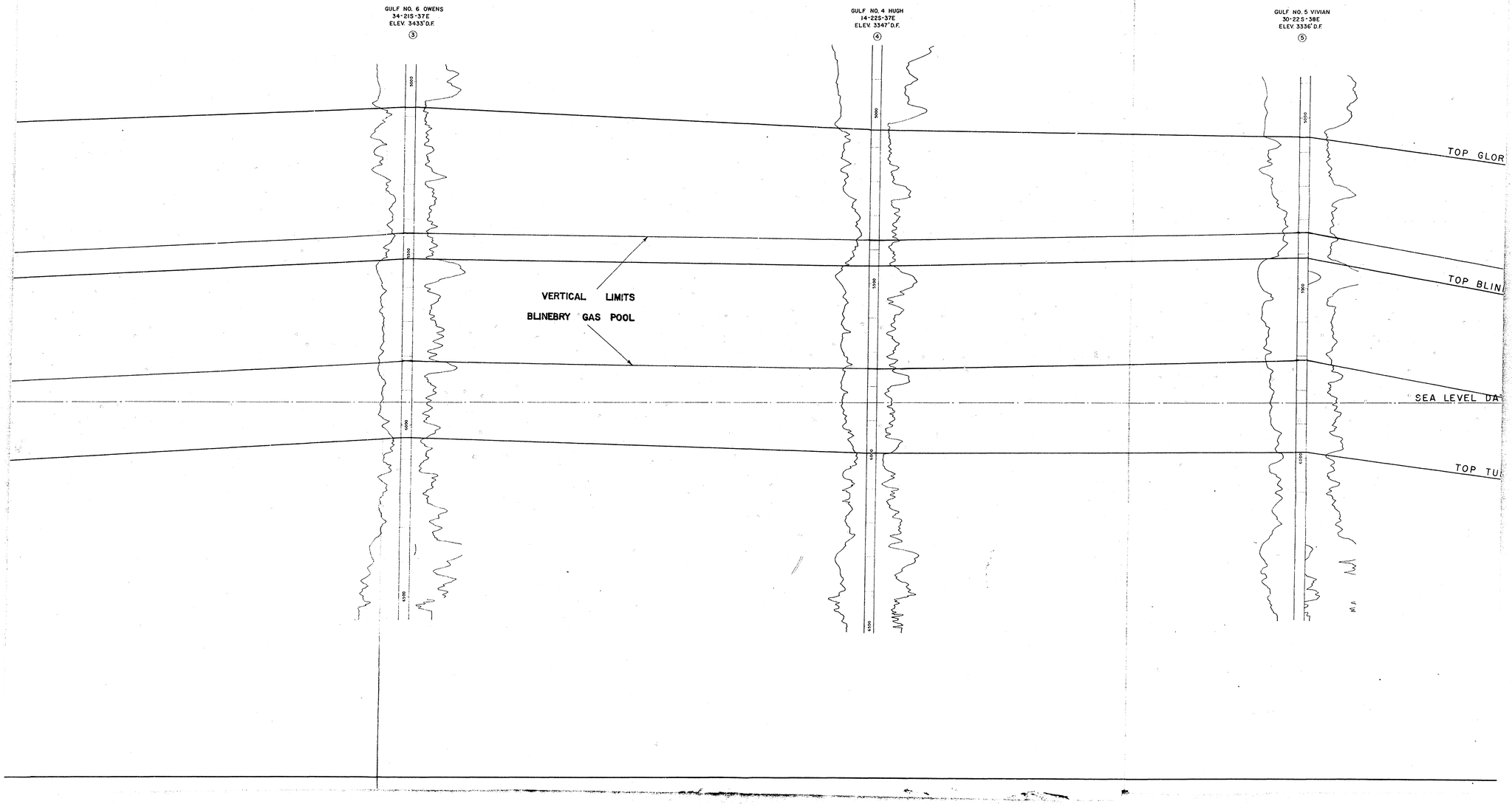

GULF NO. 6 OWENS
34-21S-37E
ELEV. 3433' D.F.
③
GULF NO. 4 HUGH
14-22S-37E
ELEV. 3347' D.F.
④
GULF NO. 5 VIVIAN
30-22S-38E
ELEV. 3336' D.F.
⑤
VERTICAL LIMITS
BLINEBRY GAS POOL
TOP GLOR
TOP BLIN
SEA LEVEL DA
TOP TU

385

GULF NO. 4 HUGH
14-22S-37E
ELEV. 3347' D.F.
④

GULF NO. 5 VIVIAN
30-22S-38E
ELEV. 3336' D.F.
⑤

GULF NO. 1 PIKE
6-23S-38E
ELEV. 3349' D.F.
⑥

TOP GLORIETTA

TOP BLINEBRY

SEA LEVEL DATUM -2500

TOP TUBB

-1500

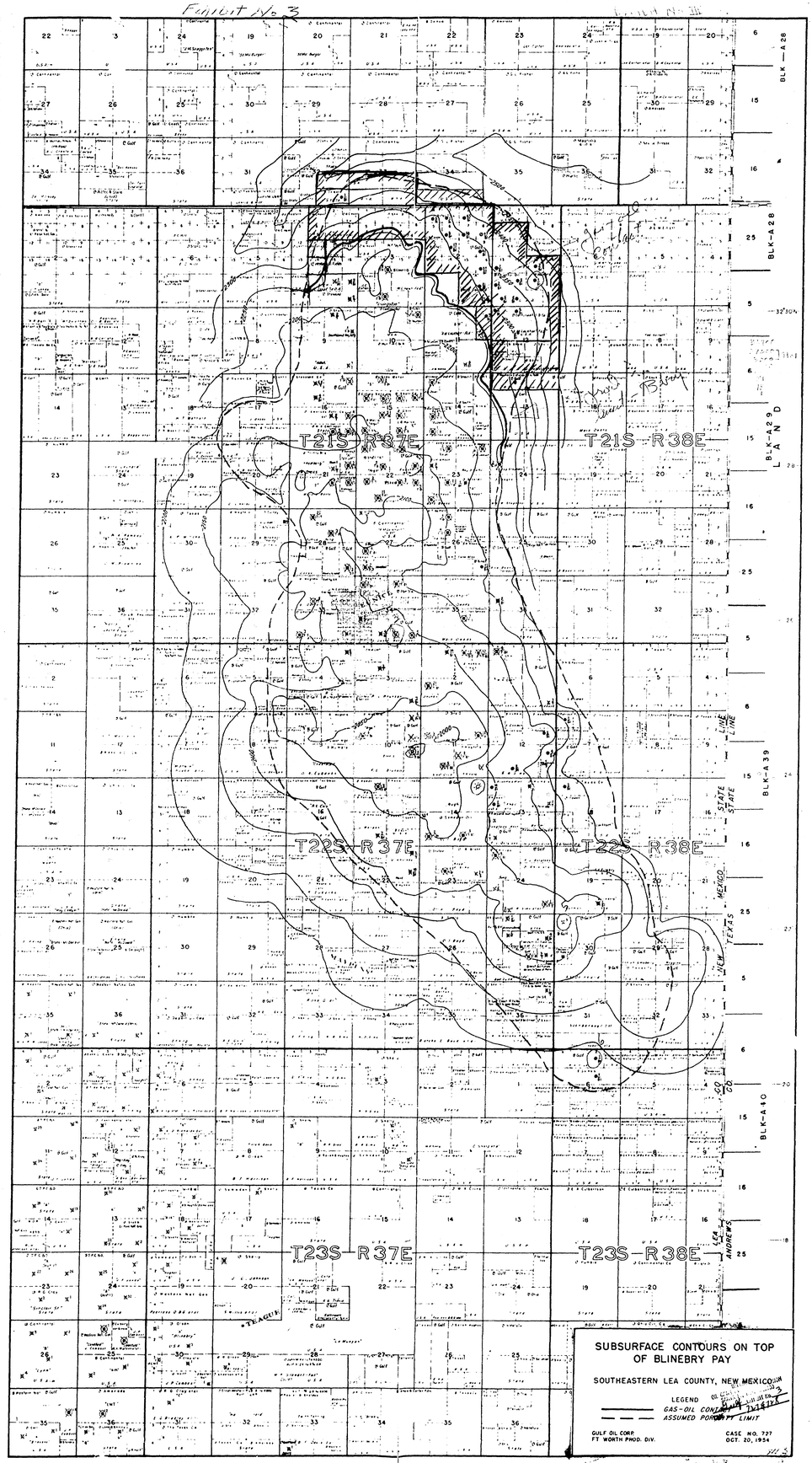
-2000

-2500

-3000

386

Exhibit No. 3



387

Exhibit No. 12

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T21S - R37E

T21S - R38E

T22S - R37E

T22S - R38E

T23S - R37E

T23S - R38E

BLK - A28

BLK-A29

BLK-A39

BLK-A40

LINE LINE

STATE STATE

NEW MEXICO TEXAS

LEA LEA

BOTTOM HOLE PRESSURE COMPARISON IN BLINEBRY FORMATION

SEPTEMBER - OCTOBER, 1954 SURVEYS

BLINEBRY GAS POOL
BLINEBRY OIL POOL
TERRY BLINEBRY OIL POOL

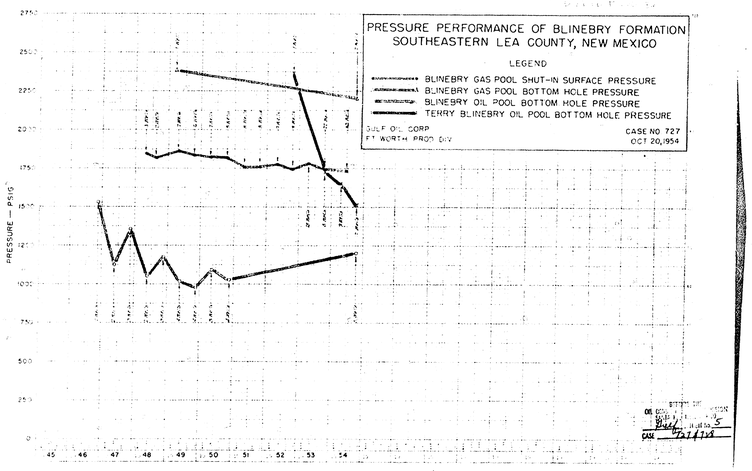
SOUTHEASTERN LEA COUNTY, NEW MEXICO

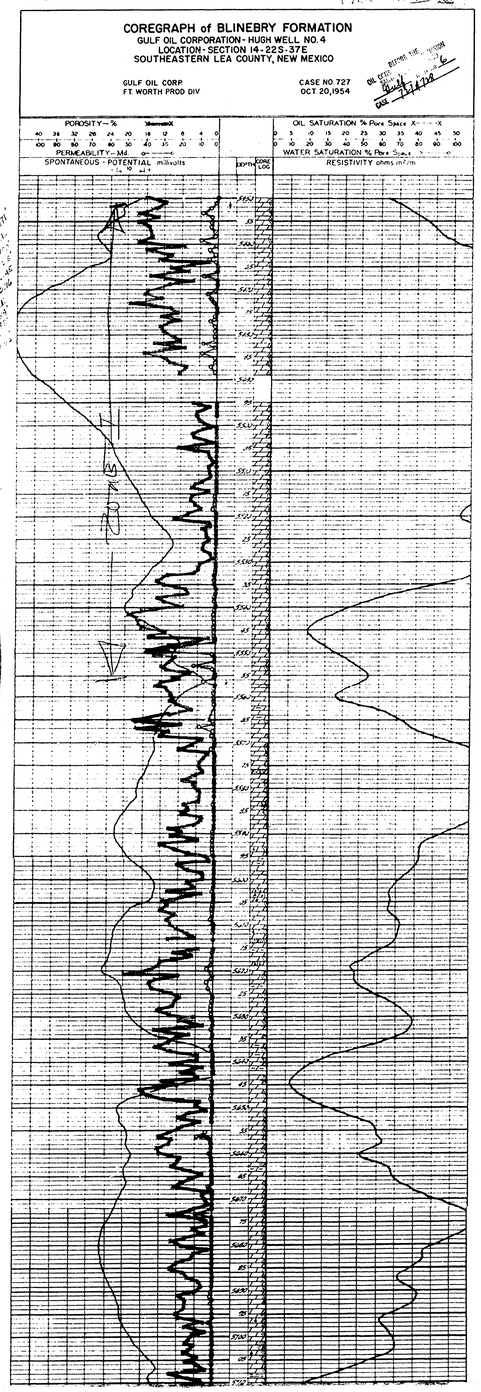
LEGEND

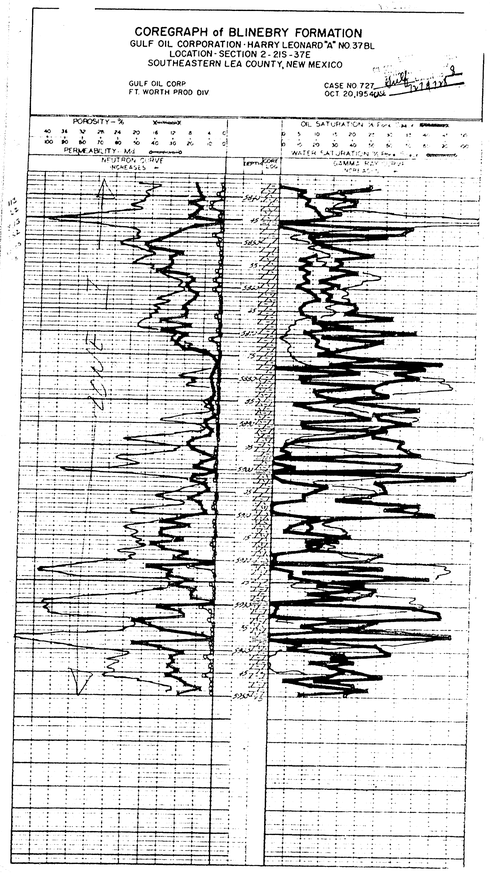
- GAS WELL
- OIL WELL RECOMPLETED AS GAS WELL
- GAS-GAS DUAL WELL
- GAS-OIL DUAL WELL
- BLINEBRY FORMATION CORED

GULF OIL CORP.
FT. WORTH PROD. DIV.

CASE NO. 727
OCT. 20, 1954


PRESSURE PERFORMANCE OF BLINEBRY FORMATION
SOUTHEASTERN LEA COUNTY, NEW MEXICO
LEGEND
BLINEBRY GAS POOL SHUT-IN SURFACE PRESSURE
BLINEBRY GAS POOL BOTTOM HOLE PRESSURE
BLINEBRY OIL POOL BOTTOM HOLE PRESSURE
TERRY BLINEBRY OIL POOL BOTTOM HOLE PRESSURE
GULF OIL CORP
FT WORTH PROD DIV
CASE NO 727
OCT 20,1954
PRESSURE — PSIG
2750
2500
2250
2000
1750
1500
1250
1000
750
500
250
0
45
46
47
48
49
50
51
52
53
54


COREGRAPH of BLINEBRY FORMATION
GULF OIL CORPORATION - HUGH WELL NO. 4
LOCATION - SECTION 14-22S-37E
SOUTHEASTERN LEA COUNTY, NEW MEXICO
GULF OIL CORP
FT WORTH PROD DIV
CASE NO 727
OCT 20,1954
POROSITY - %
PERMEABILITY - Md
SPONTANEOUS - POTENTIAL millivolts
OIL SATURATION % Pore Space
WATER SATURATION % Pore Space
RESISTIVITY ohms m²/m
DEPTH
CORE LOG


COREGRAPH of BLINEBRY FORMATION
GULF OIL CORPORATION - HARRY LEONARD "A" NO 37 BL
LOCATION - SECTION 2 - 21S - 37E
SOUTHEASTERN LEA COUNTY, NEW MEXICO
GULF OIL CORP
FT WORTH PROD DIV
CASE NO 727
OCT 20,1954
POROSITY - %
PERMEABILITY - Md
NEUTRON - DRIVE
INCREASES
OIL SATURATION % Pore Space
WATER SATURATION % Pore Space
DEPTH
CORE LOG

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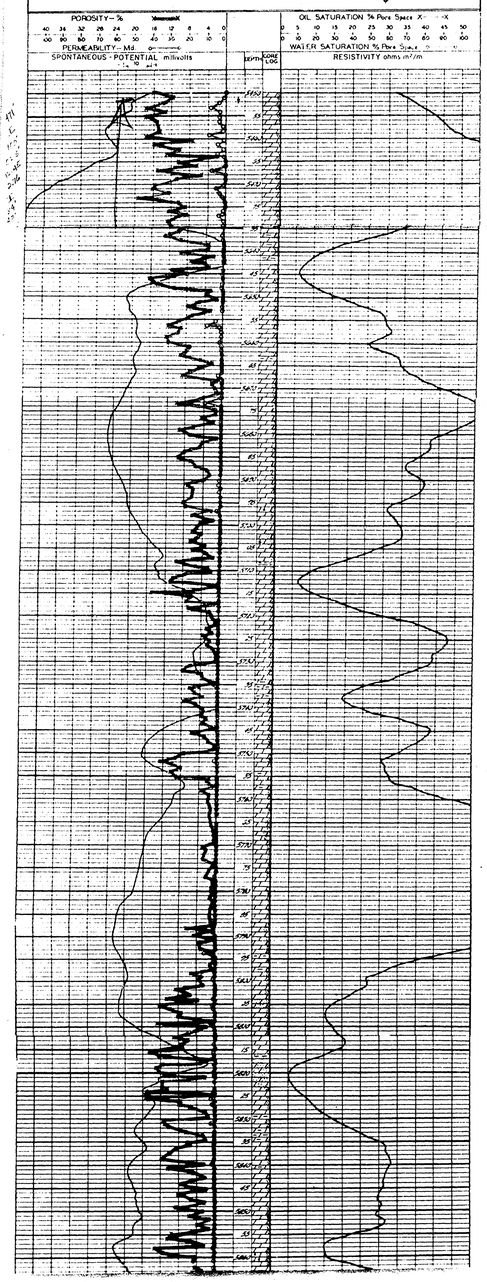
COREGRAPH of BLINEBRY FORMATION

GULF OIL CORPORATION - HUGH WELL NO. 4
LOCATION - SECTION 14-22S-37E
SOUTHEASTERN LEA COUNTY, NEW MEXICO

GULF OIL CORP
FT WORTH PROD DIV

CASE NO 727
OCT 20, 1954

OIL SATURATION % Pore Space X
WATER SATURATION % Pore Space
POROSITY - %
PERMEABILITY - Md.
SPONTANEOUS - POTENTIAL millivolts
RESISTIVITY ohms m²/m
DEPTH
CORE LOC



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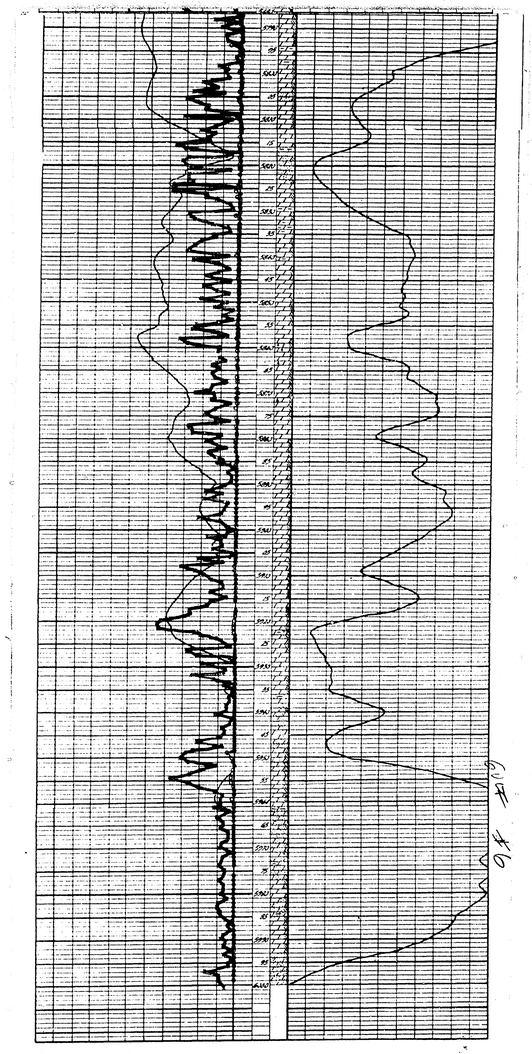

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WEST. OIL FIELDS
HILL NO. 1
UNIT R 4-21S-37E
ELEV. 3481

STANOLIND
SOUTHLAND ROY. NO. 5
UNIT Q 4-21S-37E
ELEV. 3481

-1500'

SHELL
LIVINGSTON NO. 8
UNIT N 3-21S-37E
ELEV. 3469

CONTINENTAL
HAWK NO. 5
UNIT O 3-21S-37E
ELEV.

HAWK NO. 1
UNIT P 3-21S-37E
ELEV.

SHELL
STATE NO. 17
UNIT K 2-21S-37E
ELEV. 3508

GULF
LEONARD 36 A
UNIT G 2-21S-37E
ELEV. 3511

TOP GLORIETA

TOP "BLINEBRY MARKER"

TOP "TUBB MARKER"

TOP DRINKARD

TD 5974
Comp 6-8-54. IP B/O & N. CMCF & PD

TD 6558
Comp 11-29-52. Drinkard IP 299 BOPD
GOR 969. Comp Drlg 4-11-54 Initial
Prod. Completed 1-6-53 MACF & TP ; 16 BOPD
5-4-54 BOP at Blinebry 2 MCF

TD 6050
Comp 3-25-52. PBTD 6941. IP Drinkard
132 BOPD. DST 5628-5870. Gas TSTM
Strong blow. Initial Gas Rate TSTM. Mud
Condensate. 1 mm. 1 hr. all wtr. of 1.5 MACF/BPD
Condensate 58 Bbls. Rec. 2 Bbls. 30 mm. SIBHP
2350# IFWH 2400# Dual comp 9-20-53. IP
Blinebry 1.8 MACF & TP

Comp in Ellenburger

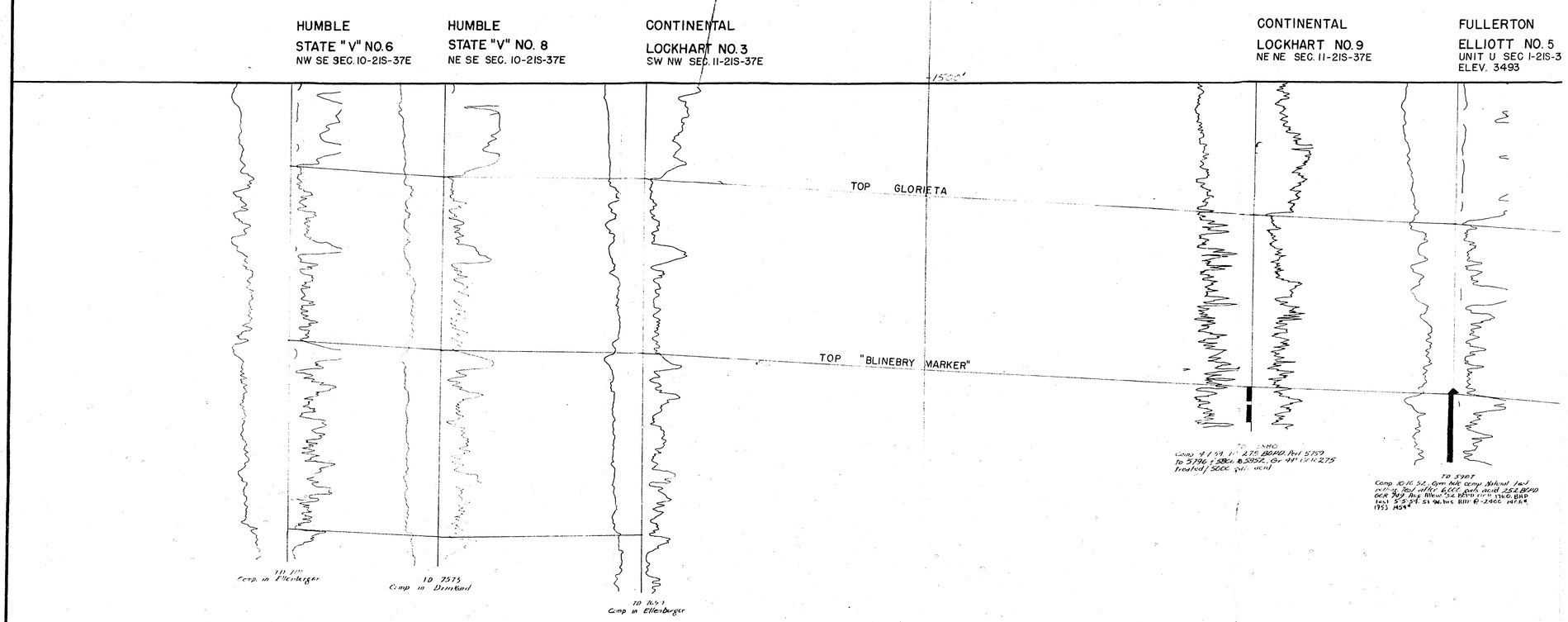
Comp in Drinkard Perfs in SI

TD 5787
Comp. 5-6-54. IP 83 BOPD
GOR 921. Treat 6500 gals acid
DST 5810-5870 open
30 min. 1 mm. 1 hr. all wtr. incr.
Strong blow to surface in 10 min.
Rec. 1180' GIP 150 psig 30 min
IBHP 475. IFWH 2175#

Comp. 5-6-54. IP 83 BOPD
GOR 921. Treat 6500 gals acid

NEW MEXICO OIL CONSERVATION COMMISSION
EXHIBIT NO. 2 CASE 727
AUGUST 18, 1954 BY: R.F.M.

392



Company-Lease	No.	S-T-R	Date	Time S.I.	Elev.	Depth	Gradient lb/100'	BHP at 2400'	Previous BHP	
AZTEC										
State	5-F	2-21-37	5-11-54	72 hrs	3505	5850	32.0	~~1765~~	1759	10-15-53
State	6-D	2-21-37	5-11-54	72 hrs	3509	5900	32.0	2227		
FULLERTON										
Elliott	1-T	1-21-37	5-5-54	96 hrs	3501	5901		1107	1600	10-7-53
Elliott	2-S	1-21-37	5-5-54	96 hrs	3531	5931		1408	1459	10- -53
Elliott	5-U	1-21-37	5-5-54	96 hrs	3493	5893	33.0	1946	2020	10- -53
Elliott	6-V	1-21-37	5-5-54	96 hrs	3515	5915	33.0	1182	910	10- -53
GULF										
Leonard	27-X	2-21-37	4-29-54	49 hrs	3483	5885		1868	2199	5-22-53
Leonard	31-Q	2-21-37	4-26-54	48 hrs	3481	5851		2011	2453	8-13-53
HUMBLE										
Terry	1-R	1-21-37	4-14-54	55 hrs	3558	5900	33.0	1350	1959	1-20-53
	Eight Wells		in October 1953		average	pressure	1729			
	Same eight wells		in April 1954		average	down	1578			
							196			

393

CONTINENTAL
LOCKHART NO.9
NE NE SEC. 11-21S-37E

FULLERTON
ELLIOTT NO. 5
UNIT U SEC 1-21S-37E
ELEV. 3493

FULLERTON
ELLIOTT NO. 3
UNIT S SEC. 1-21S-37E
ELEV. 3531

HUMBLE
FED. TERRY NO. 2
UNIT O SEC. 1-21S-37E
ELEV. 3556

ETA

MARKER"

TD 3880
Comp 9-1-53. 11" @ 710. BOPD. Perf 5759 to 5796' & 5806 to 5852'. 6- 49" @ 4275 treated / 5000 gal. acid

TD 3987
Comp. 10-16-52. Open hole comp. Natural Test nothing. Test after 6,000 gals acid 254 BOPD GOR 749 Flg. Pressure 50 psig thru 11/64 BHP Test 5-5-54. 51 96 hrs. 1111 @ 2466 1468 psig 1953 MSA

TD 6015
Comp 9-27-52. Perf 5895-5930. Nat test nothing. Test after 15,000 gals and 1/2 MCNG/Te. GOR 1098 on 16/64 BHP Test 11-22-52. 24 hrs. 119 Temp. Hole Obs Press 2082# at -2460'. Bottom Grad. 0.5#

TD 6110
Comp 11-14-52. Perfs 5972-6054 & 6076-6117. Natural test. Nothing. Test after 30,000 gals and 8# Bomb Pumping 1 27 BW. On 32/64 DP 1571. GOR 1039 open 1 hr. Re 36" 15min SIP 60" Recovered 45' VHGCDM. DST 6095-6110 open 45 min Re 55" 15 min SIP 30" Recovered 1450' VHG/GCM. Acid 500 gals. Pumping 9 BOPD. GOR 2346.

E-3

NEW MEXICO OIL CONSERVATION COMMISSION
EXHIBIT NO 3 CASE 727

AUGUST 18, 1954 BY: R.F.M.

394

-1000

-2000

-3000

TEXAS CO.
HENDERSON NO. 2
NE NE 30-21S-37E

PACIFIC-WESTERN
HARDY NO. 4
SW SE 20-21S-37E

PACIFIC-WESTERN
HARDY NO. 3
SE SE 20-21S-37E

CONTINENTAL
WANTZ NO. 3
NW SE 21-21S-37E

SI
TU
HV

TOP OF GLORIETA

TOP OF BLINEBRY

TOP OF TUBB ZONE

TOP OF DRINKARD

TD-3172

TD-3176

TD-3164

TD-3172

TD-3

395

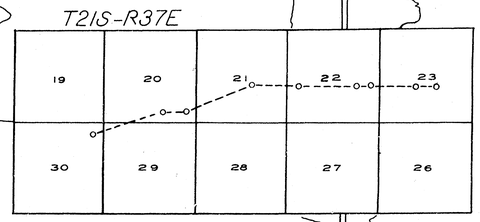
CONTINENTAL
WANTZ NO. 3
NW SE 21-21S-37E

SHELL
TURNER NO. 2
NW SW 22-21S-37E

SHELL
TURNER NO. 3
NW SE 22-21S-37E

SHELL
TURNER NO. 5
NE SE 22-21S-37E

SHELL
SARKEYS NO. 2
NE SW 23-21S-37E



3172

TD-3200

TD-3200

TD-3200

TD-3200

TEXAS CO
ESTLOCK NO.1
NW SW 3-21S-37E
ELEV. 3467

HUMBLE
STATE "V" NO. 9
NE SW 10-21S-37E
ELEV. 3464

HUMBLE
STATE "V" NO. 2
SE SW 10-21S-37E
ELEV. 3474

TIDE WATER
STATE "S" NO. 2
NE NW 15-21S-37E
ELEV. 3456

CITIES SERVICE
STATE "S" NO. 5
SE NW 15-21S-37E
ELEV. 3458

SHELL
ARGO NO. 3
NE SW 15-21S-37E
ELEV 3445

SHELL
ARGO NO. 1
SW SW 15-21S-37E
ELEV. 3444

SHE
ARG
NW
ELE

-1000

1500

TOP GLORIETA

PADDOCK PAY
OIL

2000

"TOP CLEAR FORK" (BLINEBRY)

BLINEBRY PAY
GAS

2500

"TOP TUBB MARKER" (DRINKARD SANDY MEMBER)

TUBB PAY
GAS

3000

"TOP DRINKARD MARKER"

DRINKARD-VIVIAN PAY
OIL

OIL WELL

COMPLETED IN
ELLENBURGER

P & A

GAS-GAS DUAL

COMPLETED IN
SIMPSON

GAS-OIL DUAL

GAS-OIL DUAL

GAS-OIL DUA

397

SHELL
ARGO NO. 1
SW SW 15-21S-37E
ELEV. 3444

SHELL
ARGO NO. A-1
NW NW 22-21S-37E
ELEV. 3434

SHELL
ARGO NO. A-5
SE NW 22-21S-37E
ELEV. 3425

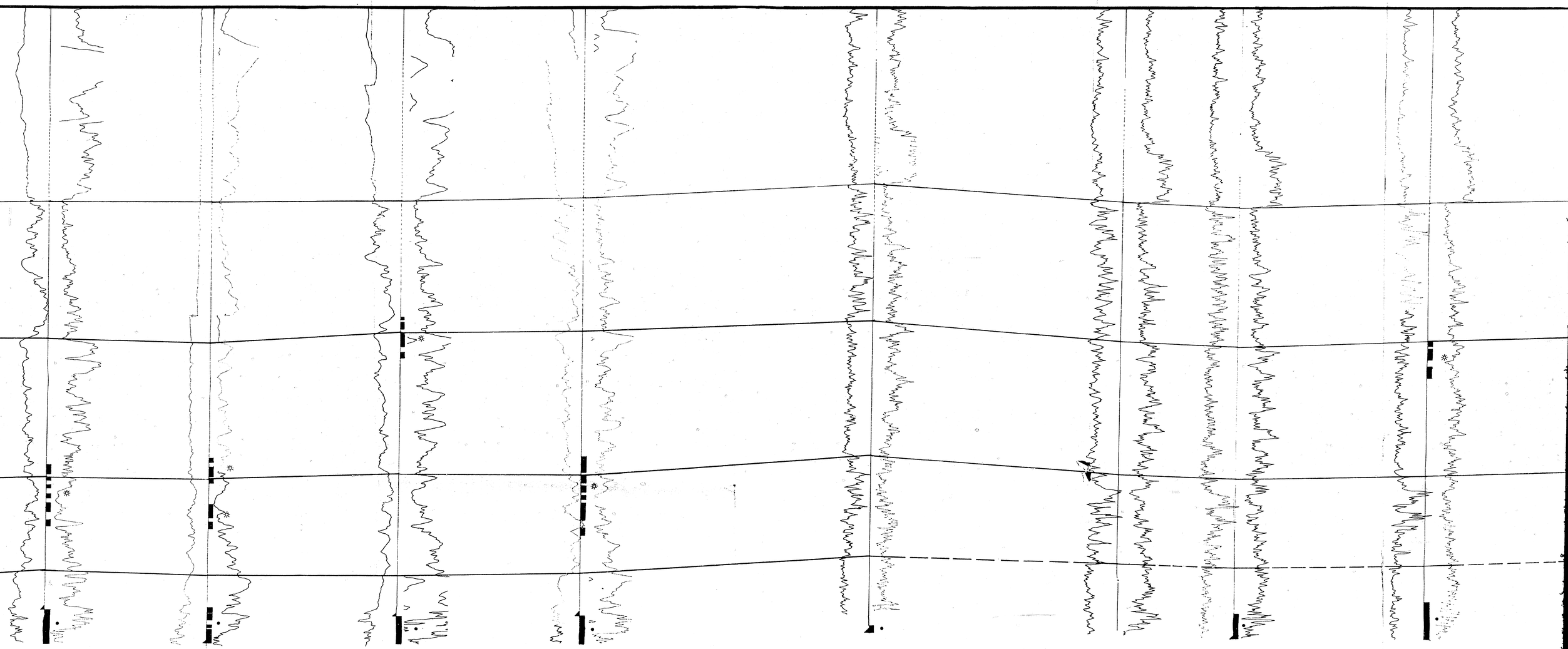
SHELL
TURNER NO. 3
NW SE 22-21-37E
ELEV. 3420

CONTINENTAL
LOCKHART A-27 NO. 5
NE NE 27-21S-37E
ELEV 3410

HUMBLE
HARDISON B NO. 8
NE SE 27-21S-37E
ELEV. 3408

HUMBLE
HARDISON B NO. 7
SE SE 27-21S-37E
ELEV. 3404

HUMBLE
HARDISON B NO. 4
NW NE 34-21S-37E
ELEV. 3413



GAS-OIL DUAL | GAS-OIL DUAL | GAS-OIL DUAL | GAS-OIL DUAL | OIL WELL | OIL WELL | OIL WELL | GAS-OIL DUAL

398

HUMBLE
HARDISON B NO. 4
NW NE 34-21S-37E
ELEV. 3413

HUMBLE
HARDISON B NO. 3
SW NE 34-21S-37E
ELEV. 3415

HUMBLE
STATE "S" NO. 20
SW NW 2-22-37
ELEV 3380

HUMBLE
STATE "S" NO. 21
NW SW 2-22-37
ELEV 3380

HUMBLE
STATE "S" NO. 22
SW SW 2-22-37
ELEV. 3369

OHIO
WORTH
SE NE
ELEV. 33

UPPER YESO

MIDDLE YESO

LOWER YESO

GAS - OIL DUAL

OIL WELL

OIL WELL

OIL TA GAS WELL

OIL WELL

GAS-OIL DUAL

399

OHIO
WORTHAN NO.12
SE NE 11-22S-37E
ELEV. 3354

SAMEDAN
PARKS NO. 6
NW SW 14-22S 37E
ELEV 3362

SAMEDAN
PARKS NO. 2
SW SW 14-22S-37E
ELEV. 3349

SINCLAIR
BOYD NO. 4
SE NW 23-22S-37E
ELEV. 3334

-1000

UPPER YESO

TOP GLORIETA

PADDOCK PAY
OIL

"TOP CLEAR FORK" (BLINEBRY)

BLINEBRY PAY
GAS

MIDDLE YESO

"TOP TUBB MARKER" (DRINKARD SANDY MEMBER)

TUBB PAY
GAS

"TOP DRINKARD MARKER"

DRINKARD-VIVIAN PAY
OIL

LOWER YESO

GAS-OIL DUAL

GAS WELL
IN OIL POOL

GAS-OIL DUAL

GAS OIL DUAL

400

NORTH - SOUTH CROSS SECTION

BLINEBRY - TUBB GAS POOLS

VERTICAL SCALE 1" = 100'
HORIZONTAL SCALE 1" = 330'
APRIL 1954

R-37-E

R-38-E

T 25 S

T 25 S

32 33 34 35 36 31 32

5 4 3 2 1 6 5

8 9 10 11 12 7 8

17 16 15 14 13 18 17

20 21 22 23 24 19 20

29 28 27 26 25 30 29

33 34 35 36 31 32

A

B

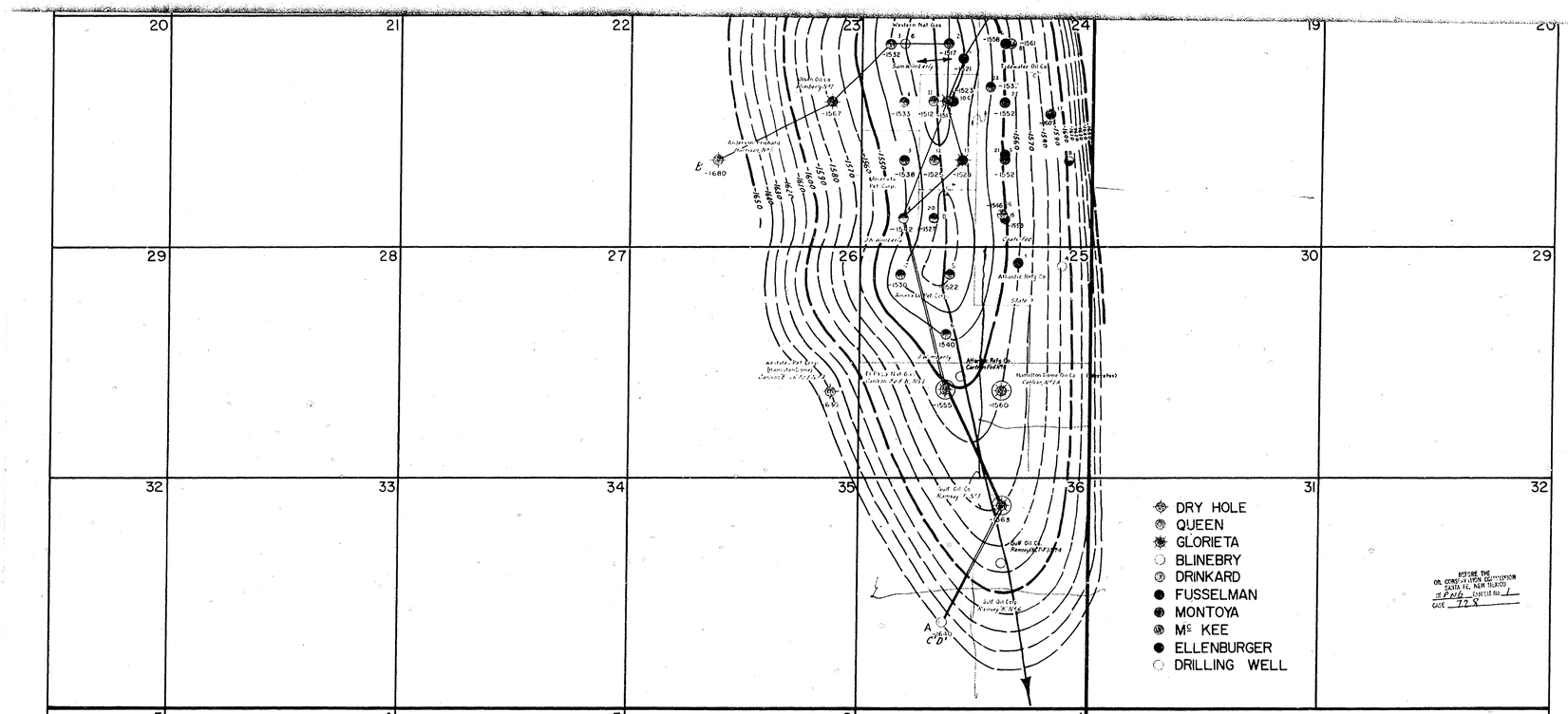
C

D

E

DRY HOLE

401



EL PASO NATURAL GAS COMPANY
GEOLOGICAL & RESERVOIR ENGINEERING
DEPARTMENT. MIDLAND DIVISION
STRUCTURAL CONTOURS DRAWN ON TOP OF THE GLORIETA FORMATION.
SCALE: 1" = 1000' C.I. = 10 FT.
GEOLOGY BY: TRACED BY: BURROWS
C.T. HOLLENSHEAD
W. C. POPE

EXHIBIT I

402

GULF OIL CORP.
VINSON RAMSEY NO.6-B
1980'FSL & 1980'FWL
SEC. 36, T-25-S, R-37-E
ELEV. KB 3038'

GULF OIL CORP.
ARNOTT RAMSEY NO.3-F
660'FNL & 1980'FEL
SEC. 36, T-25-S, R-37-E
ELEV. KB 3051'

EL PASO NATURAL GAS
CARLSON FEDERAL NO.1-B
1980'FSL & 1980'FWL
SEC 25, T-25-S, R-37-E
ELEV. KB 3058'

AMERADA PET. CORP.
IDA WIMBERLY NO.4
660'FSL & 990'FWL
SEC. 24, T-21-S, R-37-E
ELEV. D.F. 3079'

TIDEWATER ASSOC. OIL CO.
COATS C NO.1
1980'FNL & 1980'FWL
SEC. 24, T-25-S, R-37-E
ELEV. D.F. 3080'

GULF OIL C
MC BUFFIN
1980'FWL &
SEC. 13, T-25-
ELEV. KB 30

TOP YATES

TOP SEVEN RIVERS

TOP QUEEN

SEA LEVEL

TOP GRAYBURG

TOP SAN ANDRES

403

Gloriata datum
Or Top of Glorieta
shoulder at
4610 feet
(-1519)

EXHIBIT
II

PET. CORP.
FRLY NO.4
190' FWL
5-S, R-37-E
79'

TIDEWATER ASSOC. OIL CO.
COATS C NO.1
1980' FNL & 1980' FWL
SEC. 24, T-25-S, R-37-E
ELEV. D.F. 3080'

GULF OIL CORP.
MC BUFFINGTON NO.8
1980' FWL & 330' FSL
SEC. 13, T-25-S, R-37-E
ELEV. KB 3091'

GULF OIL CORP.
MC BUFFINGTON NO.9
1650' FSL & 1980' FWL
SEC. 13, T-25-S, R-37-E
ELEV. KB. 3093'

WESTERN NAT'L GAS CO.
EATON NO.1
660' FWL & 660' FSL
SEC. 12, T-25-S, R-37-E
ELEV. D.F. 3116'

WESTERN NAT'L GAS CO.
EATON NO.1-B
1980' FNL & 660' FWL
SEC. 12, T-25-S, R-37-E
ELEV. D.F. 3139'

CITIES SERVICE OIL CO.
HODGES NO.1-B
660' FSL & 660' FWL
SEC. 1, T-25-S, R-37-E
ELEV. KB. 3110'

TOP YATES

TOP SEVEN RIVERS

TOP QUEEN

SEA LEVEL

TOP GRAYBURG

TOP SAN ANDRES

Glorieta datum
or Top of Glorieta
shoulder at
4610 feet
(-1519)

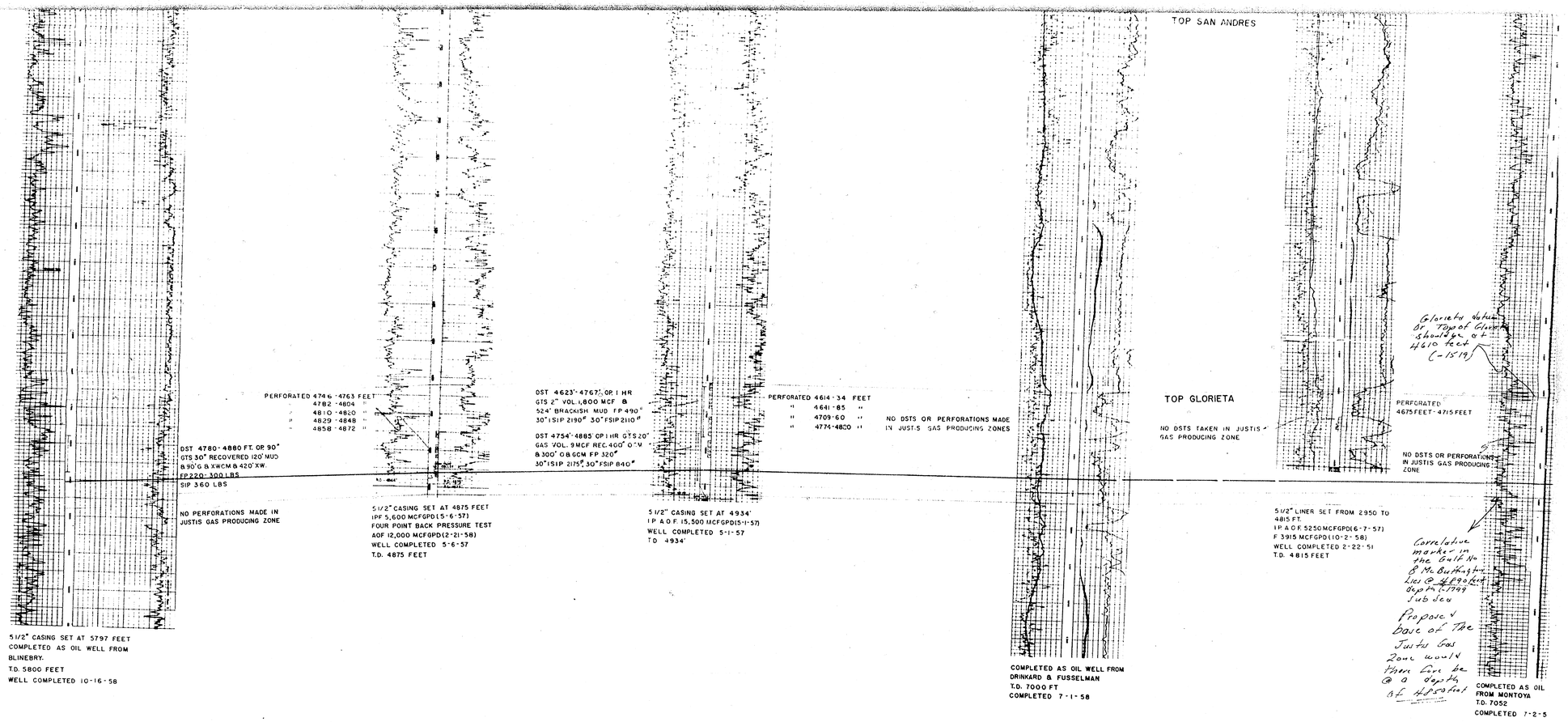
TOP GLORIETA

5 1/2" CASING SET AT
4875 FEET I.P.F. 8000
MCFGPD (6-14-46)
FOUR POINT BACK
PRESSURE TEST A.O.F.
2,050 MCFGPD (2-22-57)
WELL COMPLETED
6-14-46
T.D. 4919 FEET

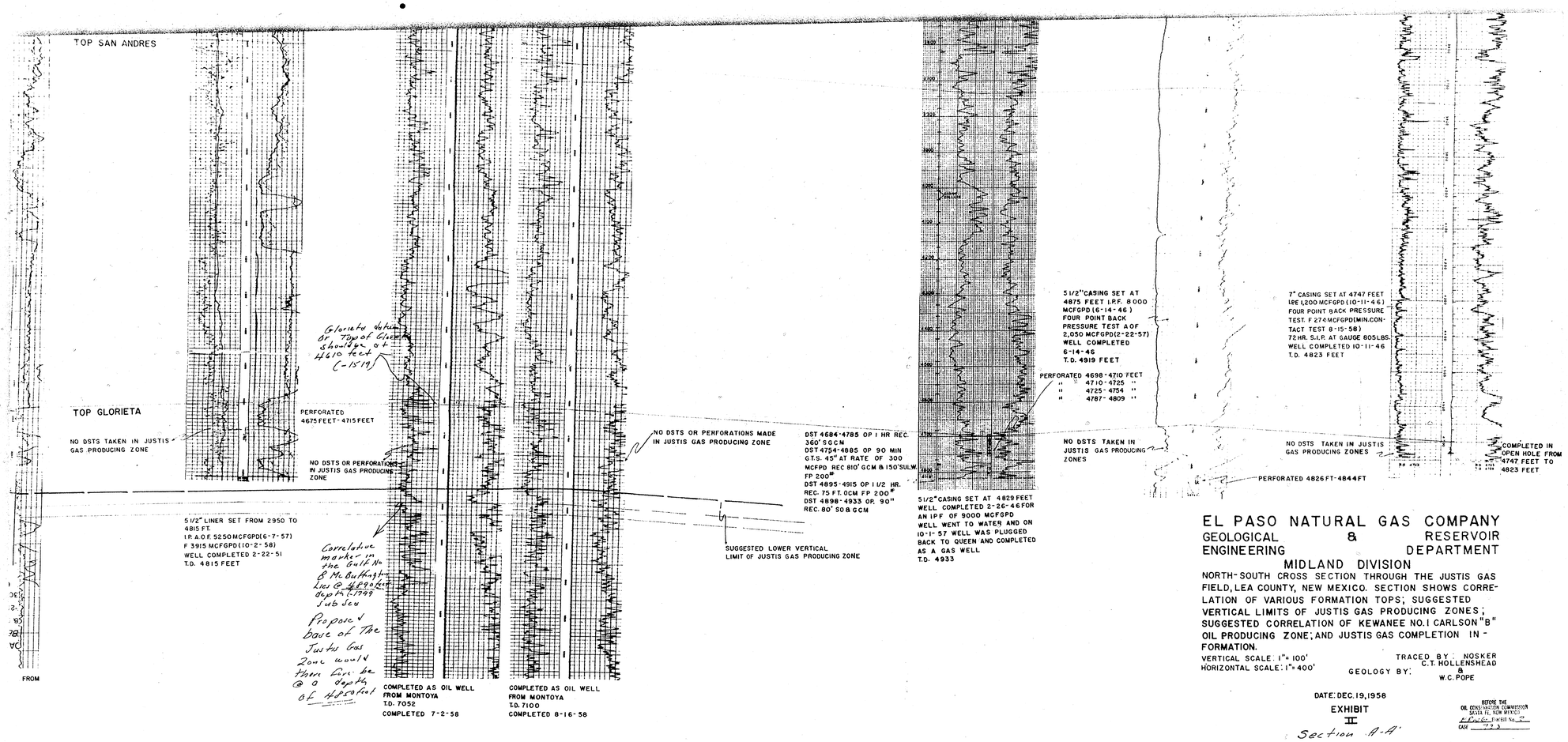
PERFORATED 4698-4710 FEET
" 4710-4725 "
" 4725-4754 "
" 4787-4808 "

7" CASING SET AT 4747 FEET
I.P.F. 1,200 MCFGPD (10-11-46)
FOUR POINT BACK PRESSURE
TEST F 274 MCFGPD (MIN. CON-
TACT TEST 8-15-58)
72 HR. S.I.P. AT GAUGE 805 LBS.
WELL COMPLETED 10-11-46
T.D. 4823 FEET

404


TOP SAN ANDRES
TOP GLORIETA
PERFORATED 4746 - 4763 FEET
4782 - 4804 "
4810 - 4820 "
4829 - 4848 "
4858 - 4872 "
DST 4780 - 4880 FT. OP. 90"
GTS 30" RECOVERED 120' MUD
& 90' G & XWCM & 420' XW.
FP 220 - 300 LBS
SIP 360 LBS
NO PERFORATIONS MADE IN
JUSTIS GAS PRODUCING ZONE
5 1/2" CASING SET AT 5797 FEET
COMPLETED AS OIL WELL FROM
BLINEBRY.
T.D. 5800 FEET
WELL COMPLETED 10-16-58
5 1/2" CASING SET AT 4875 FEET
IPF 5,600 MCFGPD (5-6-57)
FOUR POINT BACK PRESSURE TEST
AOF 12,000 MCFGPD (2-21-58)
WELL COMPLETED 5-6-57
T.D. 4875 FEET
DST 4623' - 4767½' OP. 1 HR
GTS 2" VOL. 1,800 MCF &
524' BRACKISH MUD FP 490"
30" ISIP 2190# 30" FSIP 2110#
DST 4754' - 4885' OP. 1 HR GTS 20"
GAS VOL. 9 MCF REC. 400' OCM
& 300' O & GCM FP 320"
30" ISIP 2175#, 30" FSIP 840#
5 1/2" CASING SET AT 4934'
I.P. A.O.F. 15,500 MCFGPD (5-1-57)
WELL COMPLETED 5-1-57
T.D. 4934'
PERFORATED 4614 - 34 FEET
" 4641 - 85 "
" 4709 - 60 "
" 4774 - 4820 "
NO DSTS OR PERFORATIONS MADE
IN JUSTIS GAS PRODUCING ZONES
COMPLETED AS OIL WELL FROM
DRINKARD & FUSSELMAN
T.D. 7000 FT
COMPLETED 7-1-58
NO DSTS TAKEN IN JUSTIS
GAS PRODUCING ZONE
5 1/2" LINER SET FROM 2950 TO
4815 FT.
I.P. A.O.F. 5250 MCFGPD (6-7-57)
F 3915 MCFGPD (10-2-58)
WELL COMPLETED 2-22-51
T.D. 4815 FEET
PERFORATED
4675 FEET - 4715 FEET
NO DSTS OR PERFORATIONS
IN JUSTIS GAS PRODUCING
ZONE
Glorieta datum
or Top of Glorieta
should be at
4610 feet
(-1519)
Correlative
marker in
the Gulf No
8 McBuffington
Lies @ 4890 feet
depth (-1799
Sub Sea
Proposed
base of The
Justis Gas
Zone would
there fore be
@ a depth
of 4850 feet
COMPLETED AS OIL
FROM MONTOYA
T.D. 7052
COMPLETED 7-2-5

405



EL PASO NATURAL GAS COMPANY
GEOLOGICAL & RESERVOIR
ENGINEERING DEPARTMENT
MIDLAND DIVISION

NORTH-SOUTH CROSS SECTION THROUGH THE JUSTIS GAS FIELD, LEA COUNTY, NEW MEXICO. SECTION SHOWS CORRELATION OF VARIOUS FORMATION TOPS; SUGGESTED VERTICAL LIMITS OF JUSTIS GAS PRODUCING ZONES; SUGGESTED CORRELATION OF KEWANEE NO. 1 CARLSON "B" OIL PRODUCING ZONE; AND JUSTIS GAS COMPLETION INFORMATION.

VERTICAL SCALE: 1" = 100'
HORIZONTAL SCALE: 1" = 400'

TRACED BY: NOSKER
C.T. HOLLENSHEAD
GEOLOGY BY: &
W.C. POPE

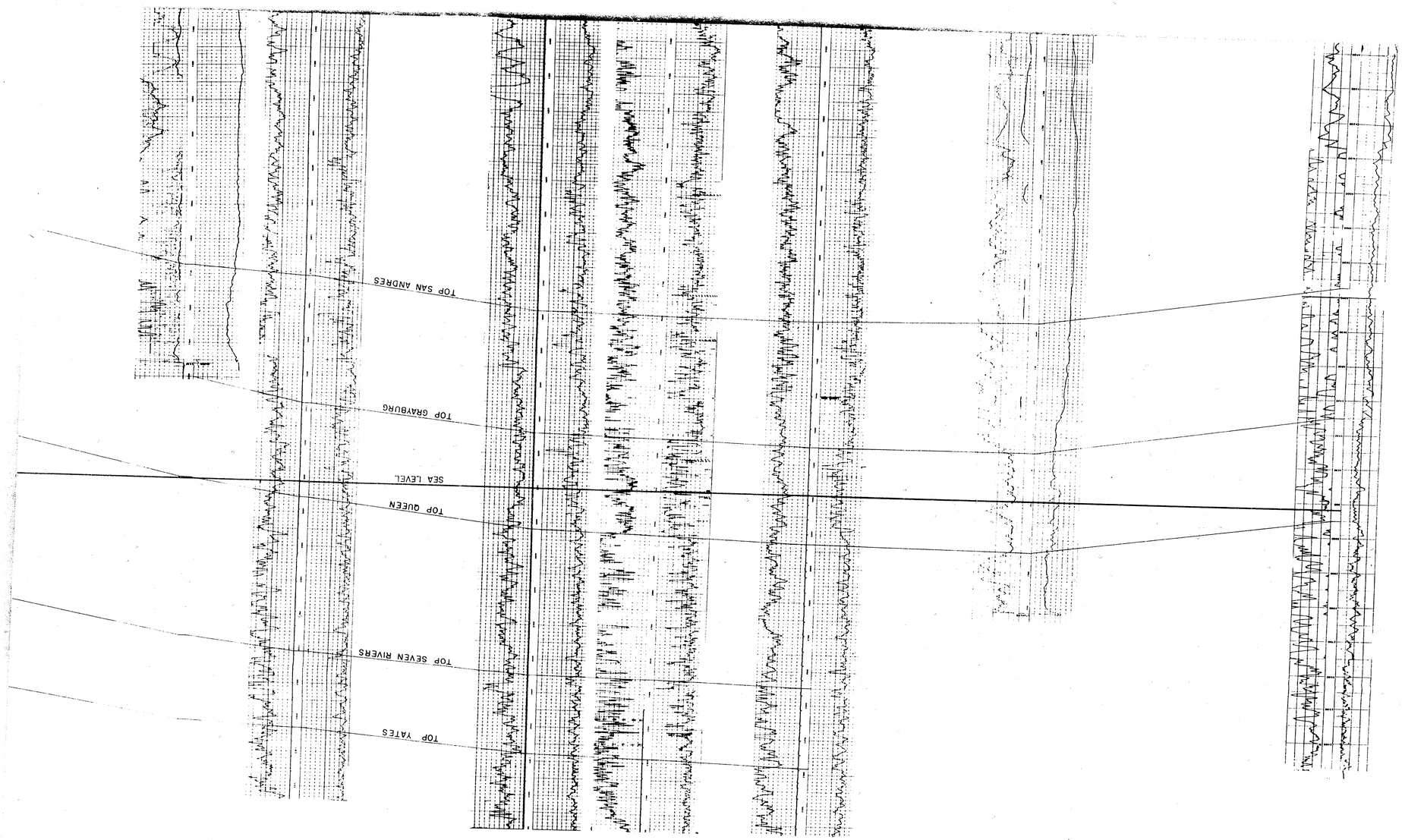
DATE: DEC. 19, 1958

EXHIBIT
III

Section A-A'

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO
EXHIBIT No. 3
CASE 773

406



ANDERSON PRITCHARD CO.
HARRISON-S
1980 S&W Sec 23 25 S - 37 E

OLSEN DRILLING CO
WIMBERLY-1
Cent. SE/4 of NE/4 Sec. 23 25S-37E

WESTERN NATURAL GAS CO.
WIMBERLY-3
660N & 660 W Sec. 24 25S-37E

WESTERN NATURAL GAS CO
WIMBERLY
1980W 660N Sec. 24 25S-37E

GULF OIL CORPORATION
MC-DUFFINGTON B
330 SE 1980W Sec. 12 25S - 37E

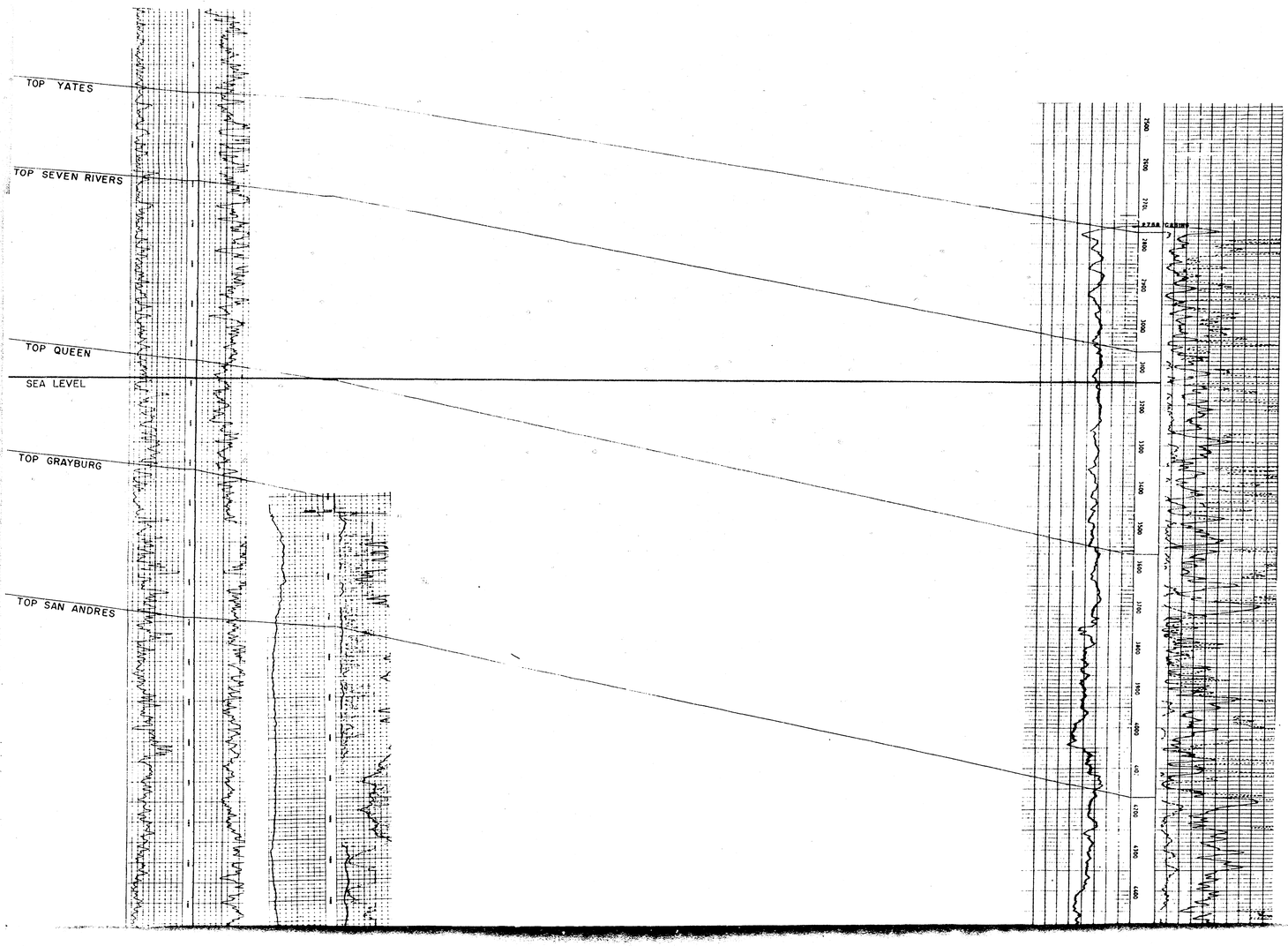
GULF OIL CORPORATION
MC-BUFFINGTON-S
1650 S 1980E Sec. 13 25S-37E

KEWANEE OIL
CARLSON B-1
2310N 1980E Sec. 13 25S-37E

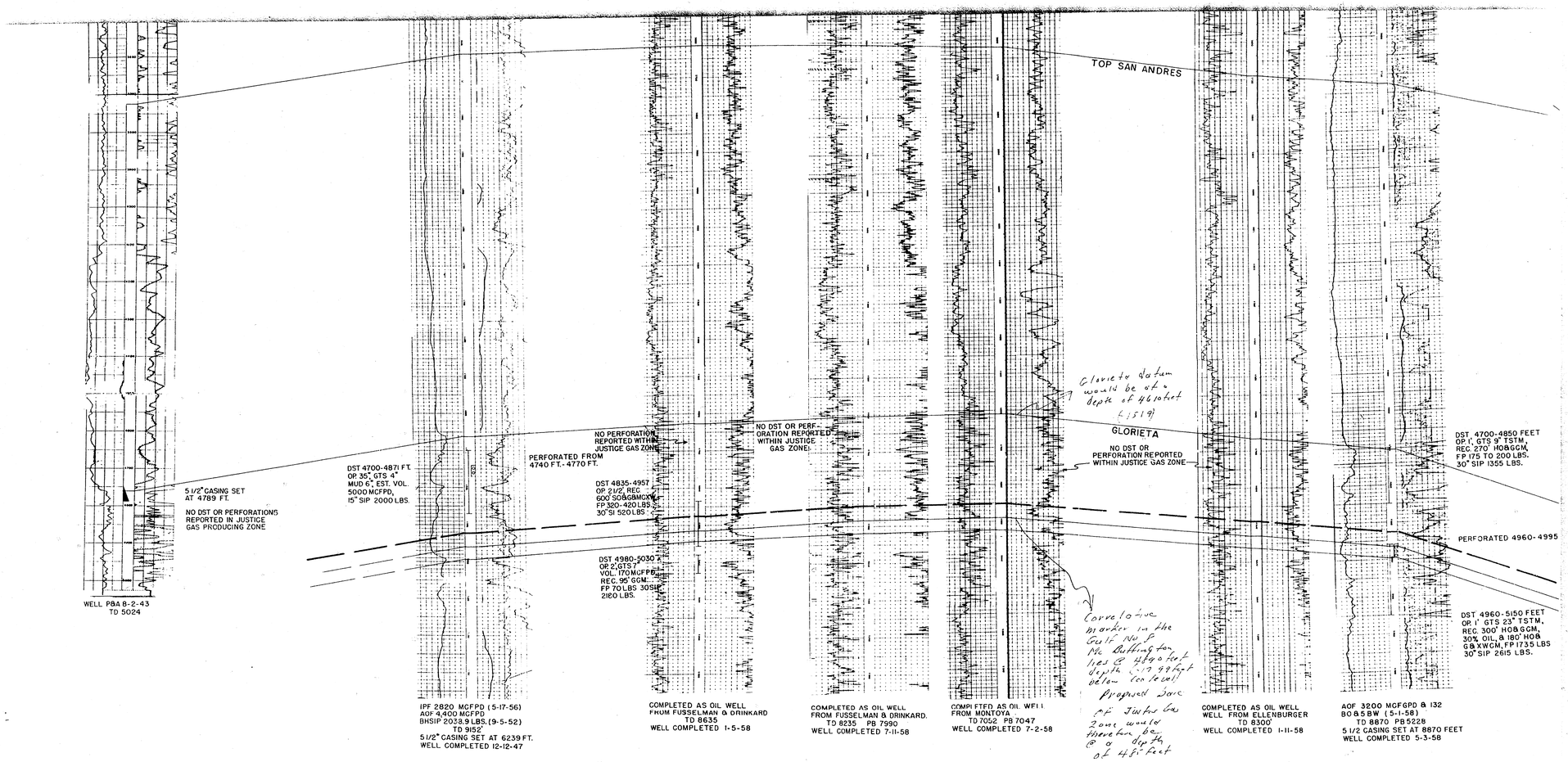
GULF OIL CORPORATION
McBUFFINGTON-5
1650S 1980E Sec.13 25S-37E

KEWANEE OIL
CARLSON B-1
2310N 1980E Sec.13 25S-37E

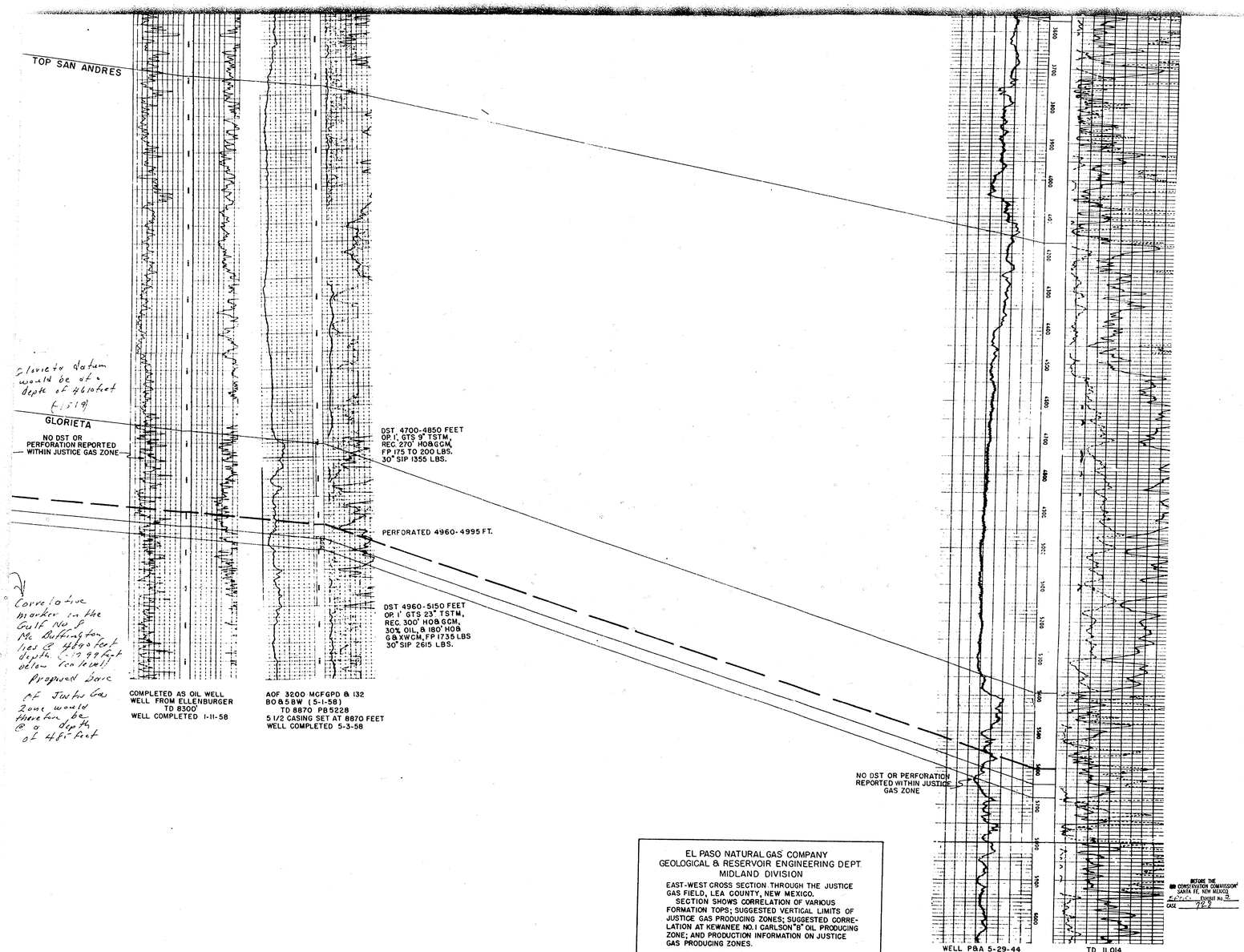
EL PASO NATURAL GAS
GINSBERG-1
560W 1980N Sec.7 25S-38E



408


TOP SAN ANDRES
Clarieta datum would be at a depth of 4610 feet (-1519)
GLORIETA
NO PERFORATION REPORTED WITHIN JUSTICE GAS ZONE
NO DST OR PERFORATION REPORTED WITHIN JUSTICE GAS ZONE
NO DST OR PERFORATION REPORTED WITHIN JUSTICE GAS ZONE
DST 4700-4850 FEET OP 1', GTS 9" TSTM, REC 270' HOB&GCM, FP 175 TO 200 LBS. 30" SIP 1355 LBS.
PERFORATED 4960-4995
DST 4960-5150 FEET OP 1" GTS 23" TSTM, REC. 300' HOB&GCM, 30% OIL, & 180' HOB G&WGCM, FP 1735 LBS 30" SIP 2615 LBS.
DST 4700-4871 FT. OP 35", GTS 4" MUD 6", EST. VOL. 5000 MCFPD, 15" SIP 2000 LBS.
PERFORATED FROM 4740 FT.- 4770 FT.
DST 4835-4957 OP 2½", REC 600' SOG&GMCW, FP 320-420 LBS., 30" SI 520 LBS.
DST 4980-5030 FT OP 2, GTS 7" VOL. 170MCFPD REC. 95' GCM. FP 70 LBS 30SIP 2120 LBS.
5 1/2" CASING SET AT 4789 FT.
NO DST OR PERFORATIONS REPORTED IN JUSTICE GAS PRODUCING ZONE
WELL P&A 8-2-43
TD 5024
IPF 2820 MCFPD (5-17-56)
AOF 4,400 MCFPD
BHSIP 2038.9 LBS. (9-5-52)
TD 9152'
5½" CASING SET AT 6239 FT.
WELL COMPLETED 12-12-47
COMPLETED AS OIL WELL FROM FUSSELMAN & DRINKARD.
TD 8635
WELL COMPLETED 1-5-58
COMPLETED AS OIL WELL FROM FUSSELMAN & DRINKARD.
TD 8235 PB 7990
WELL COMPLETED 7-11-58
COMPLETED AS OIL WELL FROM MONTOYA.
TD 7052 PB 7047
WELL COMPLETED 7-2-58
Correlative marker in the Gulf No 2 Mc Buttington lies @ 4840 feet depth. 17 feet below ton of well
Proposed Jone of Justice Gas Zone would therefore be @ a depth of 4823 feet
COMPLETED AS OIL WELL FROM ELLENBURGER
TD 8300'
WELL COMPLETED 1-11-58
AOF 3200 MCFGPD & 132 BO&SBW (5-1-58)
TD 8870 PB 5228
5 1/2 CASING SET AT 8870 FEET
WELL COMPLETED 5-3-58

409



EL PASO NATURAL GAS COMPANY
GEOLOGICAL & RESERVOIR ENGINEERING DEPT.
MIDLAND DIVISION

EAST-WEST CROSS SECTION THROUGH THE JUSTICE GAS FIELD, LEA COUNTY, NEW MEXICO.
SECTION SHOWS CORRELATION OF VARIOUS FORMATION TOPS; SUGGESTED VERTICAL LIMITS OF JUSTICE GAS PRODUCING ZONES; SUGGESTED CORRELATION AT KEWANEE NO.1 CARLSON"B" OIL PRODUCING ZONE; AND PRODUCTION INFORMATION ON JUSTICE GAS PRODUCING ZONES.

VERTICAL SCALE: 1"=100ft.
HORIZONTAL SCALE: 1"=3000ft.
DATE: DECEMBER 19, 1958

TRACED BY: J. BROWN
GEOLOGY BY: W.C. POPE & C.T. HOLLENSHEAD

EXHIBIT III

Section B-B'

BEFORE THE OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
Exhibit No. 3
CASE 728

410

BEFORE THE
OIL CONSERVATION DIVISION
SANTA FE, NEW MEXICO
EXHIBIT No. 4
CASE 7124

EXHIBIT
IX

EL PASO NATURAL GAS COMPANY
GEOLOGICAL & RESERVOIR ENGINEERING DEPT
MIDLAND DIVISION

NORTH SOUTH CROSS SECTION THROUGH THE JUSTIS GAS FIELDS LEA COUNTY, NEW MEXICO. SECTION SHOWS INTER CONNECTION & POROSITY IN UPPER GAS PRODUCING ZONES & LOCATION OF DENSE ZONE SEPERATING UPPER GAS PRODUCING ZONES FROM LOWER OIL PRODUCING ZONE. SECTION TIED TO TOP OF GLORIETA FORMATION

VERTICAL SCALE 2.5" = 100ft
HORIZONTAL SCALE 1" = 500ft

TRACED BY G PARKS
CHECKED BY CT HOLLINSHEAD

Section C-C'

GLORIETA

GULF OIL CORP.
NO. 6 RAMSEY NCT "B"
1980'S,1980'W SEC.36
T-25-S,R-37-E

GULF OIL CORP
NO. 3 ARNOTT RAMSEY
660'N,1980'E SEC.36
T-25-S,R-37-E

~~EL PASO NATURAL GAS CO.~~
NO.1-B CARLSON FEDERAL
1980'S,1980'W,SEC.25
T-25-S, R-37-E

Updated

AMERADA OIL CO.
NO. 4 WIMBERLY
660'S,990'W,SEC.24
T-25-S, R-37-E

TIDEWATER OIL CO.
NO.13 COATS "C"
1980'S,2310'W,SEC.24
T-25-S,R-37-E

TIDE WATER OIL CO.
NO.1 COATS "C"
1980'N,1980'W,SEC.24
T-25-S,R-37-E

WESTERN NATURAL GAS CO.
NO. 5 WIMBERLY
990'N,2310'W,SEC.24
T-25-S, R-37-E

GULF OIL CO.
NO. 3 MCBUFFINGTON
1980'E,660'S,SEC13
T-25-S,R-37-E

GULF OIL CO.
NO. 5 MCBUFFINGTON
1650'S,1980'E,SEC13
T-25-S, R-37-E

KEWANEE OIL CO.
NO. CARLSON "B"-3
2310'N,1980'E,SEC.13
T-25-S, R-37-E

GULF OIL CORP
NO. 6 RAMSEY NCT "B"
1980' S & W Section 36
T-25-S, R-37-E

GULF OIL CORP
NO. 3 ARNOTT RAMSEY
660' N 1980' E Section 36
T-25-S, R-37-E

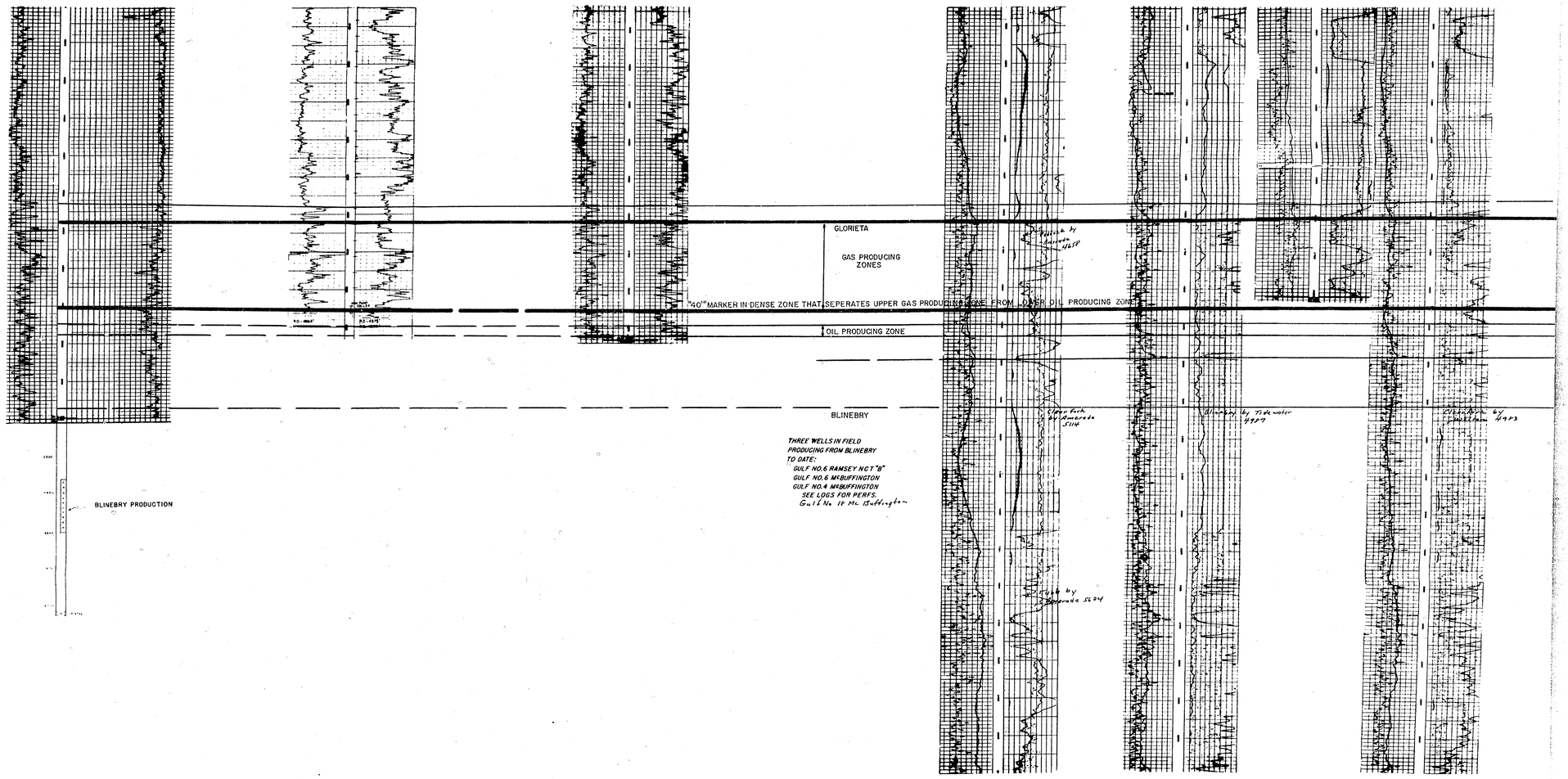
EL PASO NATURAL GAS COMPANY
NO. 1-B, CARLSON FEDERAL
1980' S & W Section 25
T-25-S, R-37-E

AMERADA OIL COMPANY
NO. 4 WIMBERLY
660' S 990' W Section 24
T-25-S, R-37-E

TIDEWATER OIL COMPANY
NO. 13 COATS "C"
1980' S 2310' W Section 24
T-25-S, R-37-E

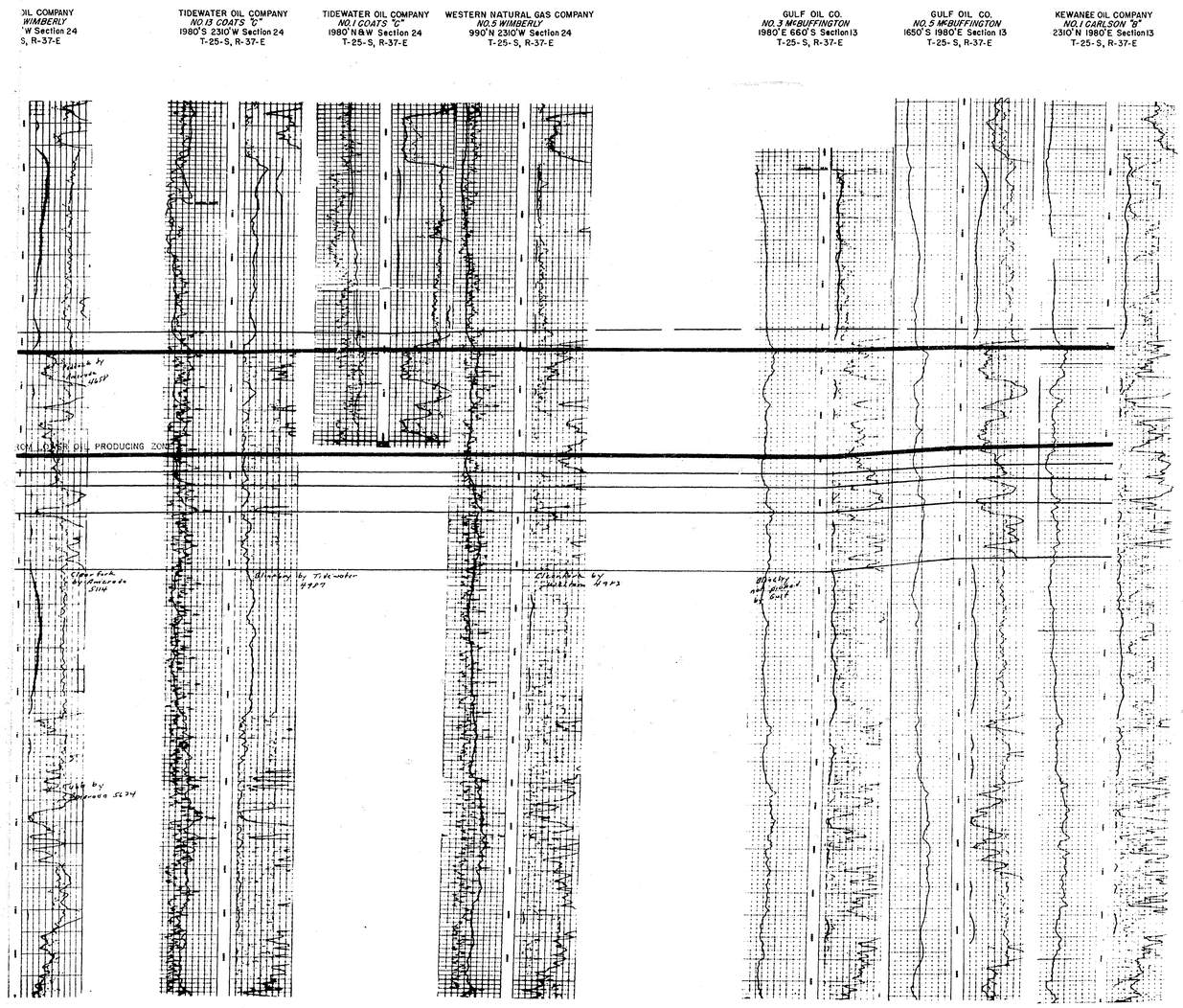
TIDEWATER OIL COMPANY
NO. 1 COATS "C"
1980' N & W Section 24
T-25-S, R-37-E

WESTERN NATURAL GAS COMPANY
NO. 5 WIMBERLY
990' N 2310' W Section 24
T-25-S, R-37-E



THREE WELLS IN FIELD
PRODUCING FROM BLINEBRY
TO DATE:
GULF NO. 6 RAMSEY NCT "B"
GULF NO. 6 McBUFFINGTON
GULF NO. 4 McBUFFINGTON
SEE LOGS FOR PERFS.
Gulf No. 19 Mc. Buffington

412



D-D'

EL PASO NATURAL GAS COMPANY
GEOLOGICAL & RESERVOIR ENGINEERING DEPT.
MIDLAND DIVISION

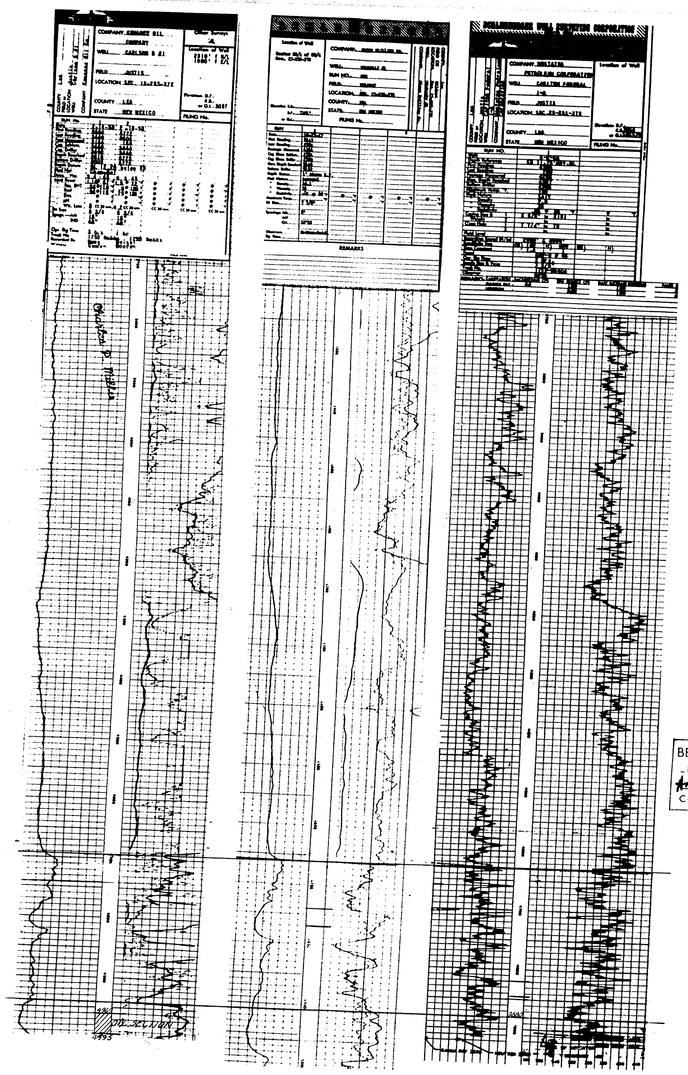
NORTH-SOUTH CROSS SECTION THROUGH THE JUSTIS GAS FIELD, LEA COUNTY, NEW MEXICO. SECTION SHOWS DENSE MARKER ZONE THAT SEPERATES UPPER GAS PRODUCING ZONES FROM LOWER OIL PRODUCING ZONE.
SECTION TIED TO TOP OF GLORIETA FORMATION

VERTICAL SCALE 1" = 50'
HORIZONTAL SCALE 1" = 1000'
DRAWN BY
DATE
Section D-D'

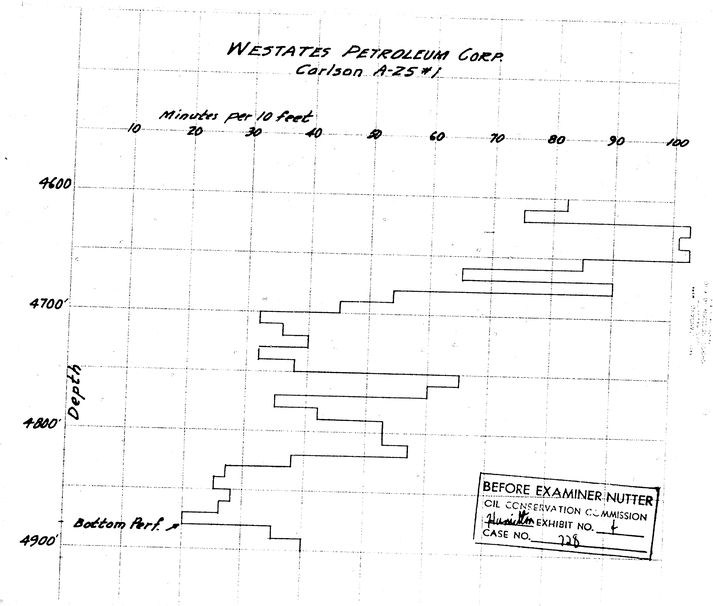
EXHIBIT
V

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EPNG Exhibit No. 5
CASE 728

413

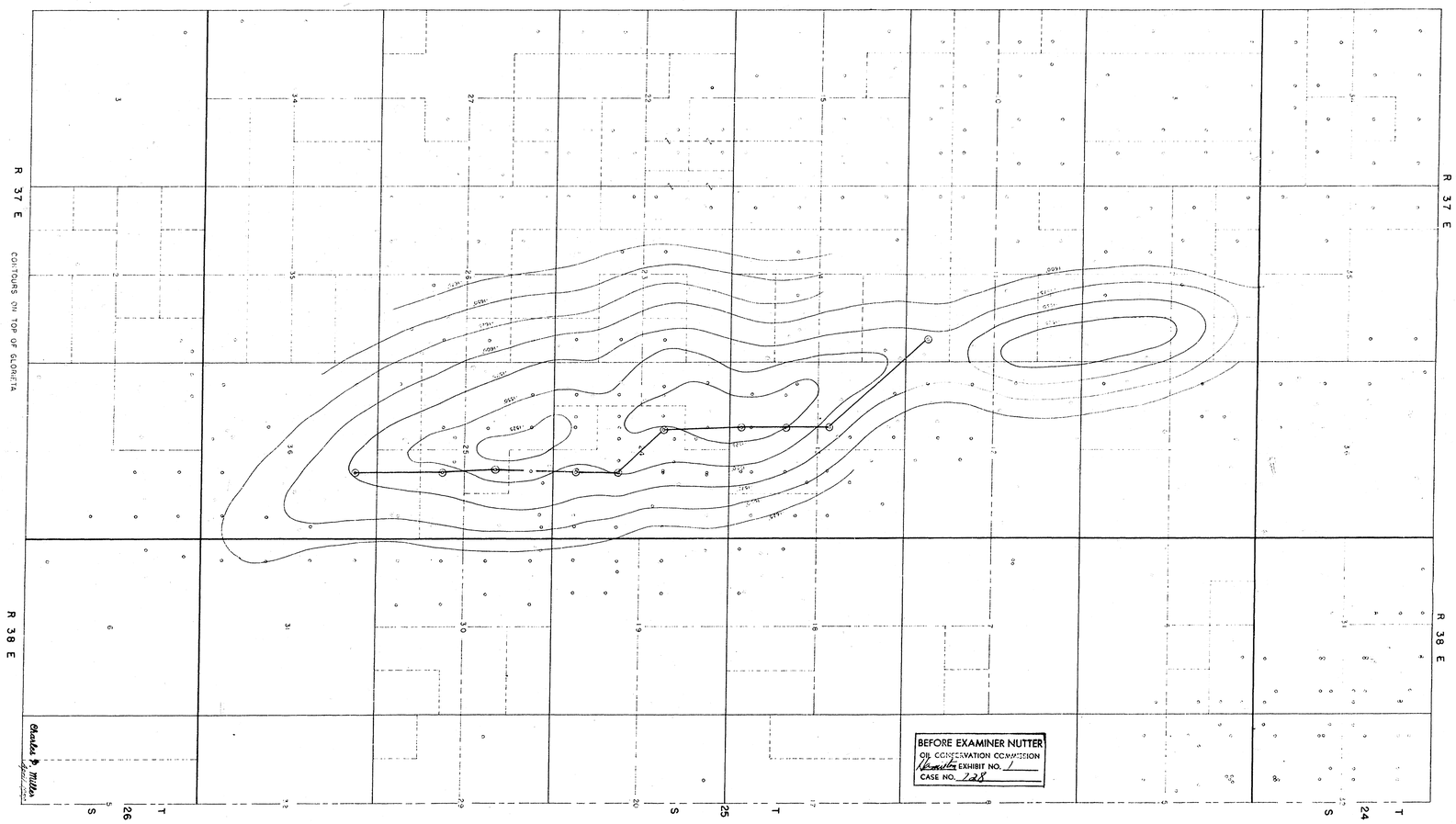


BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Hamilton EXHIBIT NO. 3
CASE NO. 728



BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Hamilton EXHIBIT NO. 4
CASE NO. 728

414


R 37 E
CONTOURS ON TOP OF GLORIETA
R 37 E
R 38 E
R 38 E
T 26 S
T 25 S
T 24 S
Charles B. Miller
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
EXHIBIT NO. 1
CASE NO. 128

415

EXHIBIT A-XII

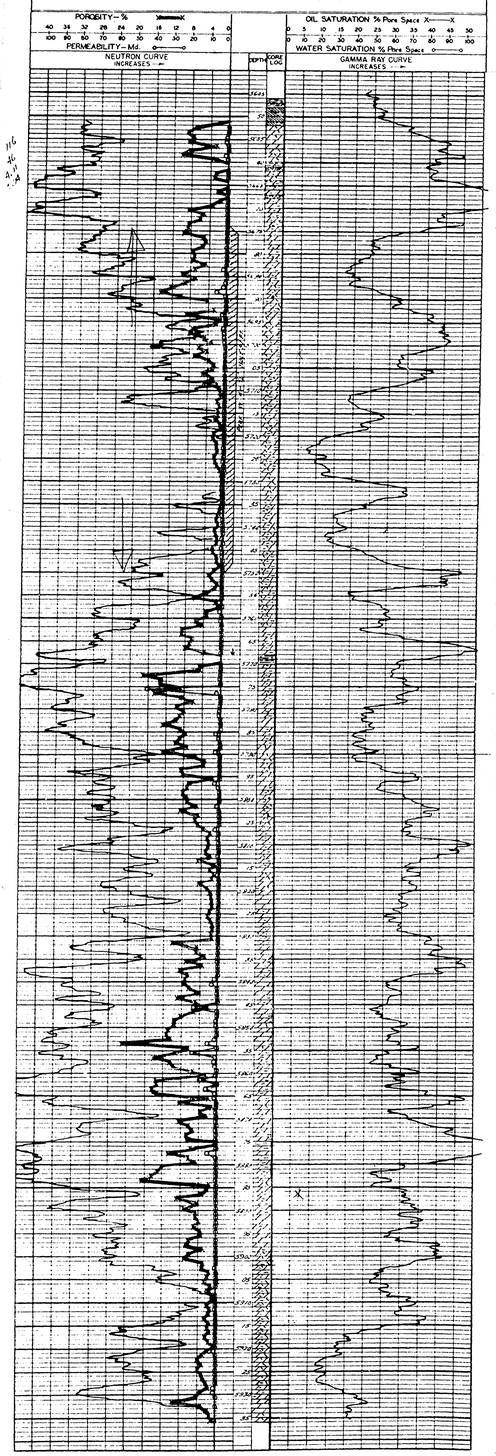
COREGRAPH of BLINEBRY FORMATION

GULF OIL CORPORATION - NANCY STEPHENS No. 2-BL
LOCATION - SECTION 24 - 21S - 37E
SOUTHEASTERN LEA, COUNTY, NEW MEXICO

GULF OIL CORP.
FT. WORTH PROD. DIV.

CASE NO. 727
OCT 20, 1954

OIL CONS. DIVISION
Santa Fe, New Mexico
Date 10-14-54



416

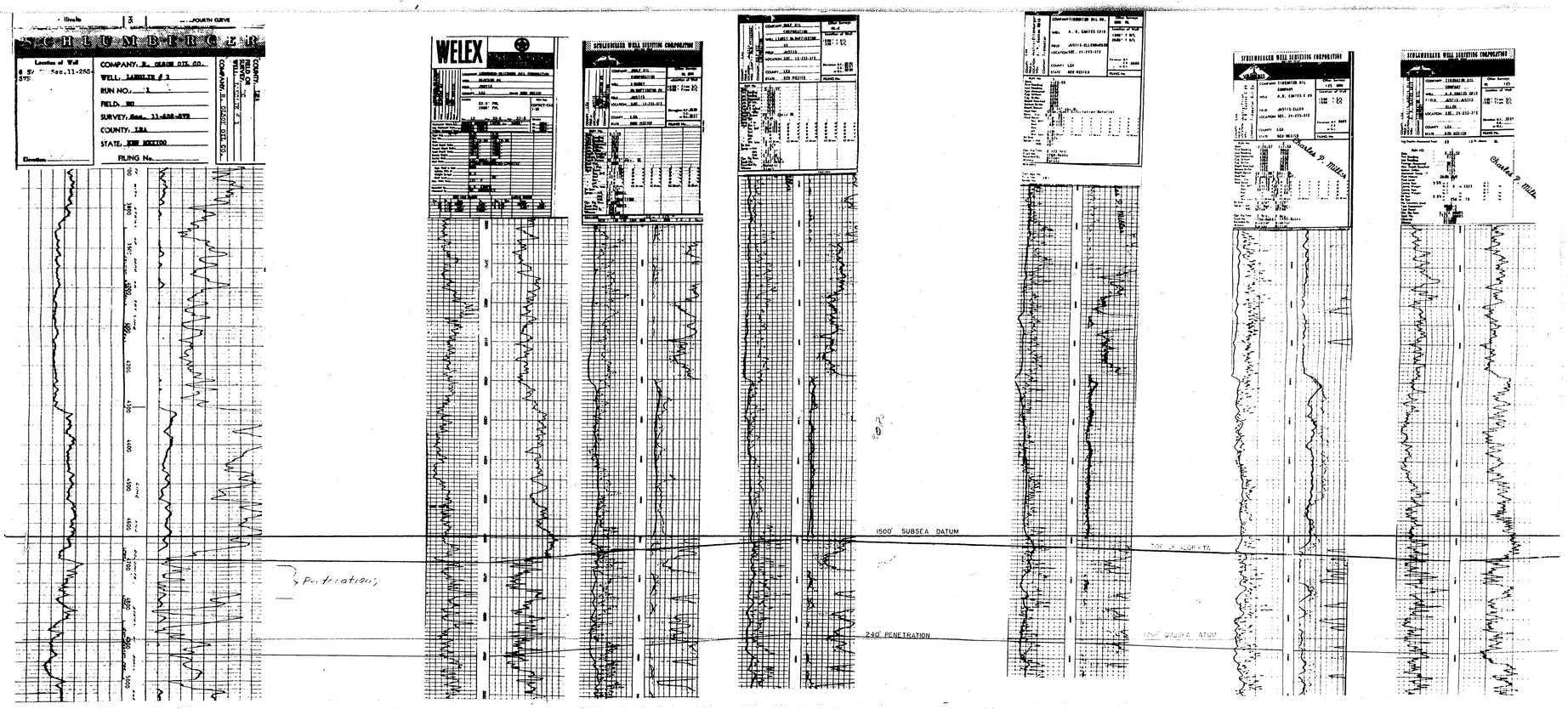
EXHIBIT VI

COMPLETION INFORMATION ON ARTESIA GAS FIELD WELLS

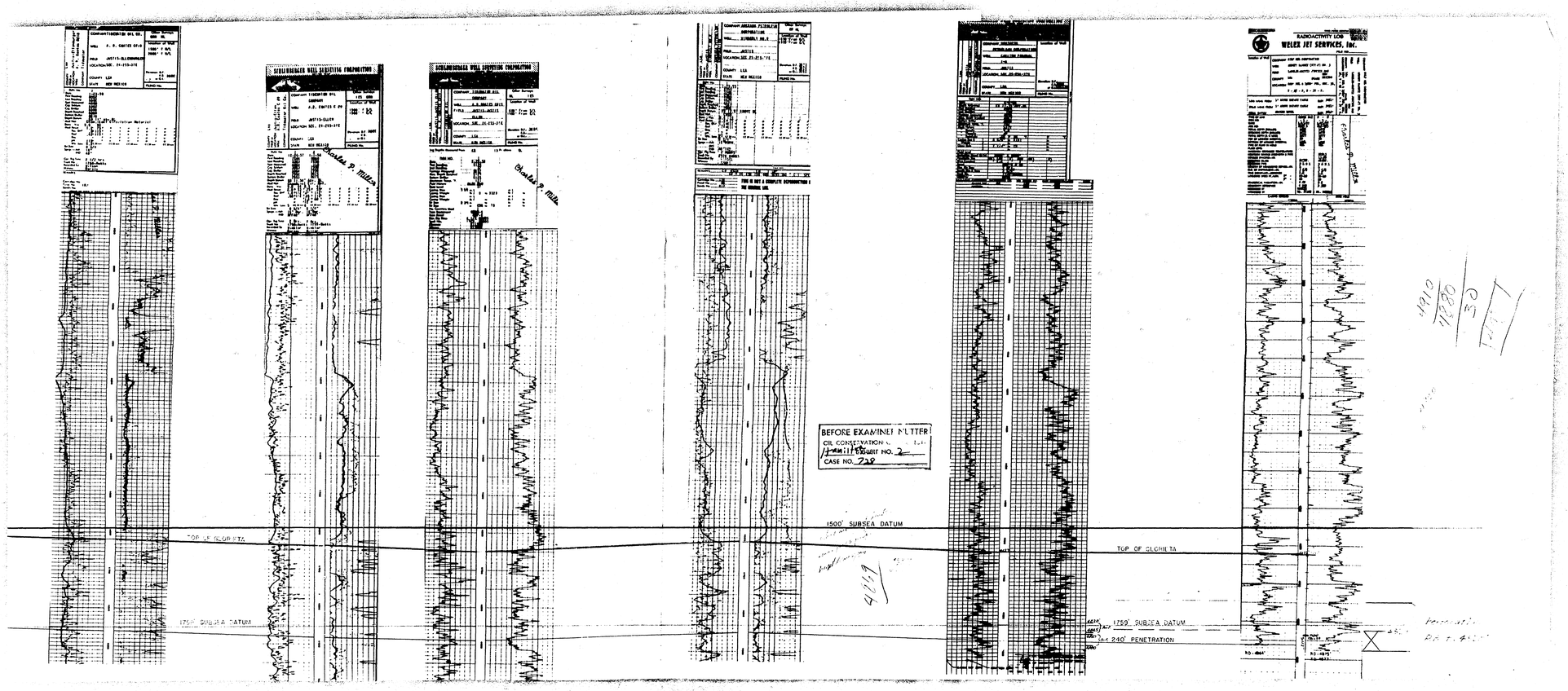
LEA COUNTY, NEW MEXICO

	COMPANY & LEASE	UNIT	LOCATION S-T-R	TOTAL DEPTH	COMPLETION DATE	CASING RECORD	PERFORATIONS	CLOVIS DATUM	DISTANCE FROM CLOVIS DATUM TO BASE OF PERFORATIONS	ELEVATION	DISTANCE FROM CLOVIS DATUM TO AO"MARKER	INITIAL POTENTIAL	FOUR POINT BACK PRESSURE TEST	SIBHP	DATE TIED IN	OIL (BBLS.)	WATER (BBLS.)	GAS (MCF)	Company & Lease	DRILLSTEM TESTS
1.	Cities Service Oil Co. Hodges B, #3	M	1-25-37	4823'	10-11-46	7" @ 4747' Hone	4747-4823 Open hole	-1589	124'	3110'	Not to	F 1,200 MCF (10-11-46)	F 274 MCF (Ohio. Contract Test) 8-15-58	0056 (72 hr. SIP @ Gauge)	4-25-47	0	0	1,156,833	Cities Service Oil Co. Hodges B, #3	No DST's
2.	Continental Oil Co. State A-2, #1	O	2-25-37	4875'	7-26-54	5 1/2" @ 3833-4873'	4770-4822' & 4852-4854'	-1569	148'	3137'		F 692 (7-26-54)	ACF 510 MCF (3-29-57)	SIBHP 1270# PBTA	9-23-54	1040	0	393,247	Continental Oil Co. State A-2, #1	No DST's
3.	El Paso Natural Gas Co. Carlson Fed. B #1 Juetz, #1	E F	25-25-37 11-25-37	4934' 9592'	3-1-57 11-26-57	5 1/2" @ 4934' 5 1/2" @ 9590'	4614-34', 4641-65', 4709-68' & 4774-4820' 4700-50', 4760-97', 4835-80'	-1555 -1556	207' 190'	3058' 3134'	239 238	ACF 15,500 MCF (5-1-57) F 2,078	No Test ACF 1,206 MCF (6-28-57) Ohio. Contract test Vol. 537 MCF, 72 hr. SIPC 812# (8-15-58)		7-16-57 4-8-44	1653 0	73 0	267,454 2,332,075	El Paso Nat. Gas Co. Carlson Fed. B, #1	DST #1 4523-5767', Op. 1" OTS 2", Vol. 1,800 MCF & 526' Brackish GCM. FP 190#, 10" ISIP 2190#, 30" FSIP 2110# DST #2 4754-4885' Op. 1", OTS 10", Gas Vol. 7 MCF Rec. 100' OCM & 300' GOCM, FP 320#, 30" ISIP 2175#, 30" FSIP 1400.
4.	Gulf Oil Corp. McDuffington #3 Ramsay "B", #3	O B	13-25-37 36-25-37	8181' 4875'	9-17-57 5-4-57	7" @ 7898' 5 1/2" @ 4875'	4732-66', 4782-4806', 4844-56' & 4862-70' 4746-63', 4782-4804', 4816-20', 4829-48' & 4858-72'	-1556 -1568	220' 253'	3084' 3051'	241 237	ACF 2,160 MCF (7-9-50) F 5,600 MCF (5-6-57)	No tests ACF 12,000 MCF (7-21-58)		7-13-57	0	Not Known	379,346	Justis No. 1 Gulf Oil Corp. McDuffington #3	No DST's No DST's
5.	Western Oil Co. Carlson, #1-A	J	25-25-37	4905'	5-17-56	5 1/2" @ 4905'	4820-45' & 4850-80'	-1560	256'	3064'	238	ACF 7,800 MCF (5-17-56)	ACF 4,400 MCF 72 hr. SIP 836 (6-7-57)		7-17-56	5367	5438	521,265	Western Carlson, #1-A	DST #1 4683-4952', Op. 1" 30", Rec. 30' GOCM & 20' OCM & 90' G & SWCM & 90' SW, FP 70-120#, 30" SI 1918. DST #2 4970-5068' Op. 2", OTS 9" Vol. 40,000 CFPD Rec. 90' GCM, FP 140#, 30" SI 1860#.
6.	Olsen Oil Co. Wimberly, #1	H	23-25-37	9152'	12-12-47	5 1/2" @ 6239'	4740-70'	-1567	109'	3102'	280	F 2820 MCF (12-12-47)	ACF 5,100 MCF SIBHTP 2038.9# (9-3-52)		1-12-48	16,277		2,226,953	Olsen Oil Co. Wimberly, #1	DST #1 6660-6775', Op. 1", OTS 3", H 14", Rec. 150' Brecklab & Mud. FP 233-450#, 30" SI 2065#. DST #2 6770-7057', Op. 1", OTS 28", Rec. 59' HOGOCM & 185' Brecklab wtr. FP 145-230#, 30" SIP 5706.
7.	Tidewater Oil Co. Coats "C" #1 Coats "C", #13	F K	24-25-37 24-25-37	4815' 8205'	2-22-51 10-2-58	5 1/2" @ 3950-4815' 7" @ 2160'	4275-4715' 4691-4709' & 4716-40'	-1517 -1528	108' 126'	3089' 3086'	Not to	ACF 5,250 MCF (6-7-57) F 3915 MCF (10-2-58)	No Test No Test		1-12-54	4296	0	950,153	Tidewater Oil Co. Coats "C" #1 Coats "C" #13	No DST's No DST's
8.	Western Nat. Gas Co. Eaton "B", #1	E	12-25-37	4919'	6-14-46	5 1/2" @ 4875'	4824-44'	-1544	160'	3140'	Not to	F 8,000 MCF (6-14-46)	ACF 2,050 MCF (2-22-57		8-15-46	0	0	3,156,300	Western Nat. Gas Co. Eaton "B", #1	No DST's
	Wildcat																		Western Pet. Co. (Wildcat) Carlson "B-13", #5	
9.	Western Petr. Co. Carlson "B-13", #5	G	13-25-37	8870'	5-3-58	5 1/2" @ 8870'	4960-95'	-1613	295' Top of Perfs. 257'	3087'	221	ACF 3,200 MCF + 132 BO & 5 BW (5-1-58)	No Test							DST #1 4700-4850' Op. 1", OTS 9" TSTM, Rec. 270' HOGOCM FP 175 to 200#, 30" SI 1355# DST #2 4950-5150', Op 1", OTS 21" TSTM. Rec. 300' HOGOCM, 30% OIL & 180 HOGOCGOCM. FP 1735#, 30" SI 2615#.

417

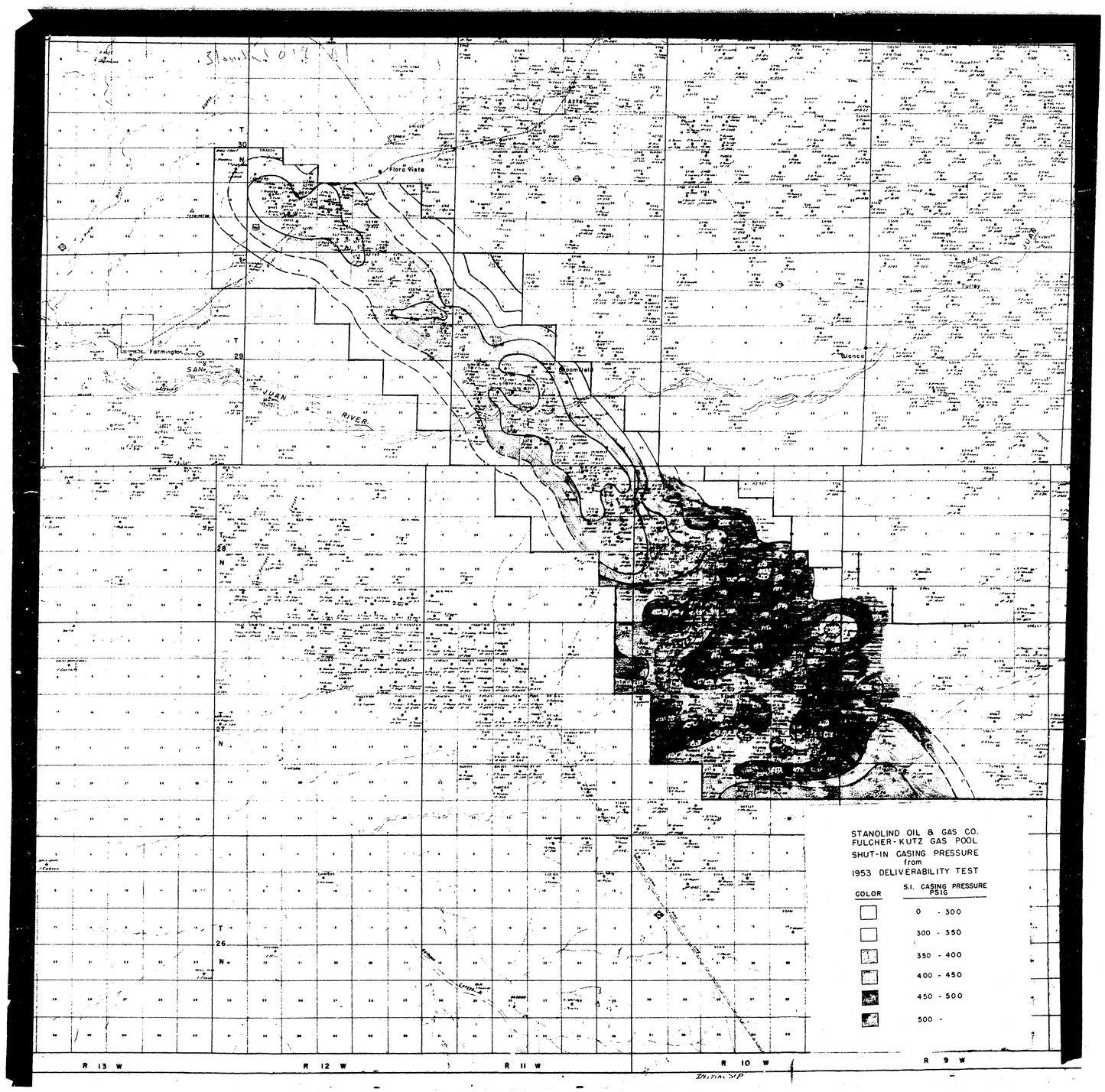

SCHLUMBERGER
COMPANY: R. OLSON OIL CO.
WELL: LANGLIE # 1
RUN NO.: 1
FIELD: WC
SURVEY: Sec. 11-25S-37E
COUNTY: LEA
STATE: NEW MEXICO
FILING No.
WELEX
SCHLUMBERGER WELL SURVEYING CORPORATION
1500' SUBSEA DATUM
240' PENETRATION
Perforations
Charles P. Miller

418

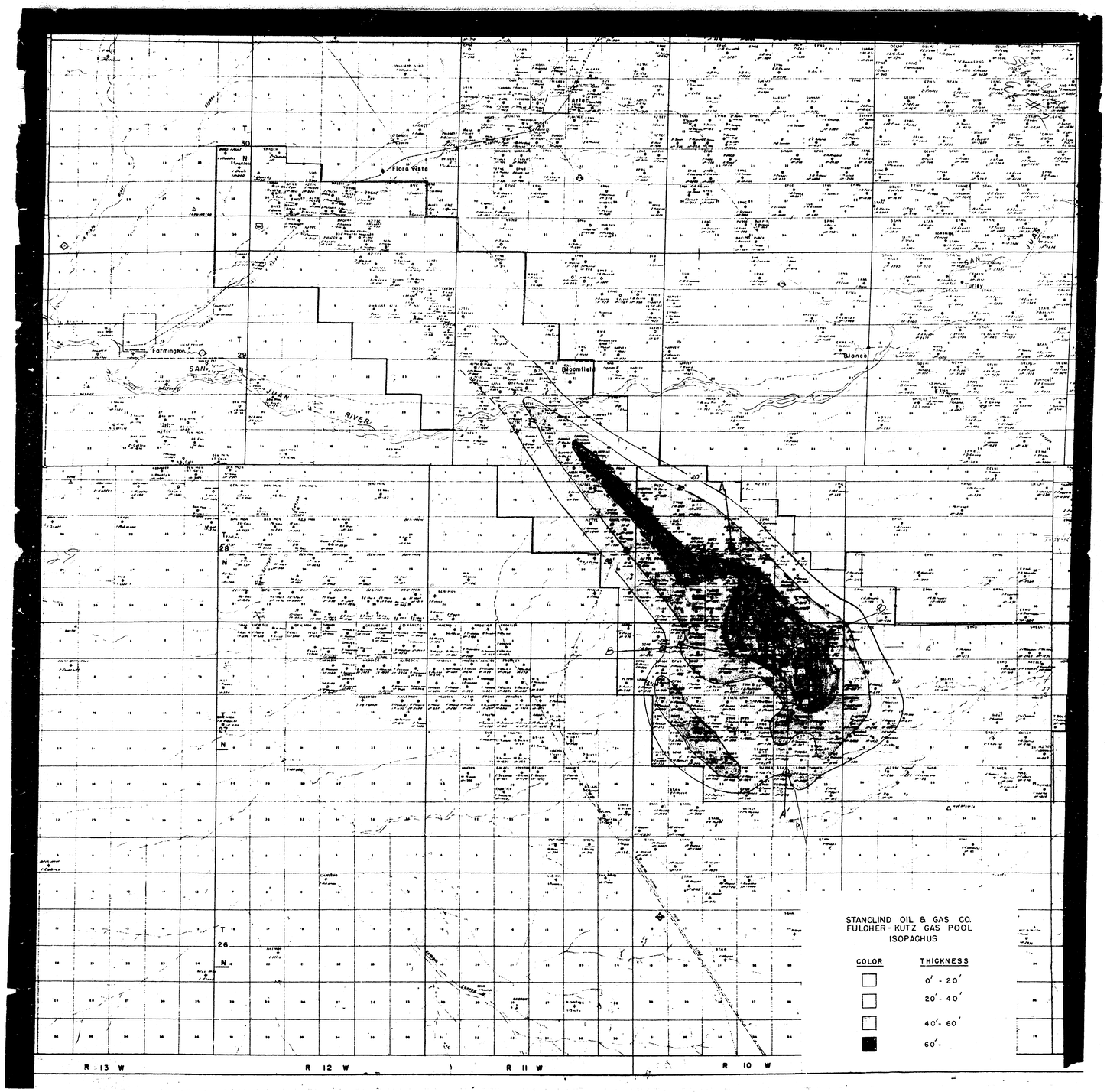


SCHLUMBERGER WELL SURVEYING CORPORATION
RADIOACTIVITY LOG
WELEX JET SERVICES, Inc.
BEFORE EXAMINER NUTTER
OIL CONSERVATION
EXHIBIT NO. 2
CASE NO. 728
1500' SUBSEA DATUM
TOP OF GLORIETA
1750' SUBSEA DATUM
240' PENETRATION

419


ASTEC
Flora Vista
Farmington
Bloomfield
Blanco
Turley
SAN JUAN RIVER
T 30 N
T 29 N
T 28 N
T 27 N
T 26 N
R 13 W
R 12 W
R 11 W
R 10 W
R 9 W
STANOLIND OIL & GAS CO.
FULCHER-KUTZ GAS POOL
SHUT-IN CASING PRESSURE
from
1953 DELIVERABILITY TEST
COLOR
S.I. CASING PRESSURE PSIG
0 - 300
300 - 350
350 - 400
400 - 450
450 - 500
500 -

420


Flora Vista
Farmington
Aztec
Bloomfield
Blanco
SAN JUAN RIVER
T 30 N
T 29 N
T 28 N
T 27 N
T 26 N
R 13 W
R 12 W
R 11 W
R 10 W
A
A'
B
B'
20'
80'
STANOLIND OIL & GAS CO.
FULCHER-KUTZ GAS POOL
ISOPACHUS
COLOR
THICKNESS
0' - 20'
20' - 40'
40' - 60'
60' -

421

COLORADO
NEW MEXICO

UTE MOUNTAIN INDIAN RESERVATION

NAVAJO INDIAN RESERVATION

COX CANYON UNIT

SAN JUAN 32-9 UNIT

SAN JUAN 32-8 UNIT

ALLISON UNIT

SAN JUAN 32-7 UNIT

NORTHEAST BLANCO UNIT

GALLEGOS CANYON UNIT

SAN JUAN 29-7 UNIT

SAN JUAN 28-7 UNIT

SAN JUAN COUNTY
RIO ARRIBA COUNTY

T 32 N
T 31 N
T 30 N
T 29 N
T 28 N
T 27 N

R 14W
R 13W
R 12W
R 11W
R 10W
R 9W
R 8W
R 7W
R 6W

422

MESA VERDE & PICTURED CLIFFS FIELDS OF THE SAN JUAN BASIN
NEW MEXICO & COLORADO

LEGEND

- PICTURED CLIFFS GAS WELL
- MESA VERDE GAS WELL
- TEMPORARILY ABANDONED MESA VERDE GAS WELL
- FARMINGTON GAS WELL
- FARMINGTON OIL WELL
- DAKOTA GAS WELL
- DRY HOLE
- FRUITLAND GAS WELL
- TOCITO OIL WELL
- LOCATION OR DRILLING WELL
- TEMPORARILY ABANDONED LOCATION
- ABANDONED LOCATION
- PENNSYLVANIAN GAS WELL

SCALE

MAY 20, 1953

EL PASO NATURAL GAS COMPANY

Revised 8-15-55

PICTURED CLIFFS WELLS

INITIAL PRESSURES

300 - 400	700 - 800
400 - 500	800 - 900
500 - 600	900 - 1000
600 - 700	1000 - 1100

Recommended Field Limits

Present Field Limits

Dry Hole In P. C.

Small Production or Show of Gas From P. C.

AUGUST 10, 1954

SOUTHERN UTE INDIAN RESERVATION

JICARILLA APACHE INDIAN RESERVATION

ALLISON UNIT

SAN JUAN 32-8 UNIT

SAN JUAN 32-7 UNIT

SAN JUAN 32-9 UNIT

SAN JUAN 32-4 UNIT

NORTHEAST BLANCO UNIT

ROSA UNIT

SAN JUAN 31-6 UNIT

SAN JUAN 30-6 UNIT

SAN JUAN 30-5 UNIT

SAN JUAN 30-4 UNIT

SAN JUAN 29-7 UNIT

SAN JUAN 29-6 UNIT

SAN JUAN 29-5 UNIT

SAN JUAN 29-4 UNIT

SAN JUAN 28-7 UNIT

SAN JUAN 28-6 UNIT

SAN JUAN 28-5 UNIT

SAN JUAN 28-4 UNIT

SAN JUAN 27-5 UNIT

SAN JUAN 27-4 UNIT

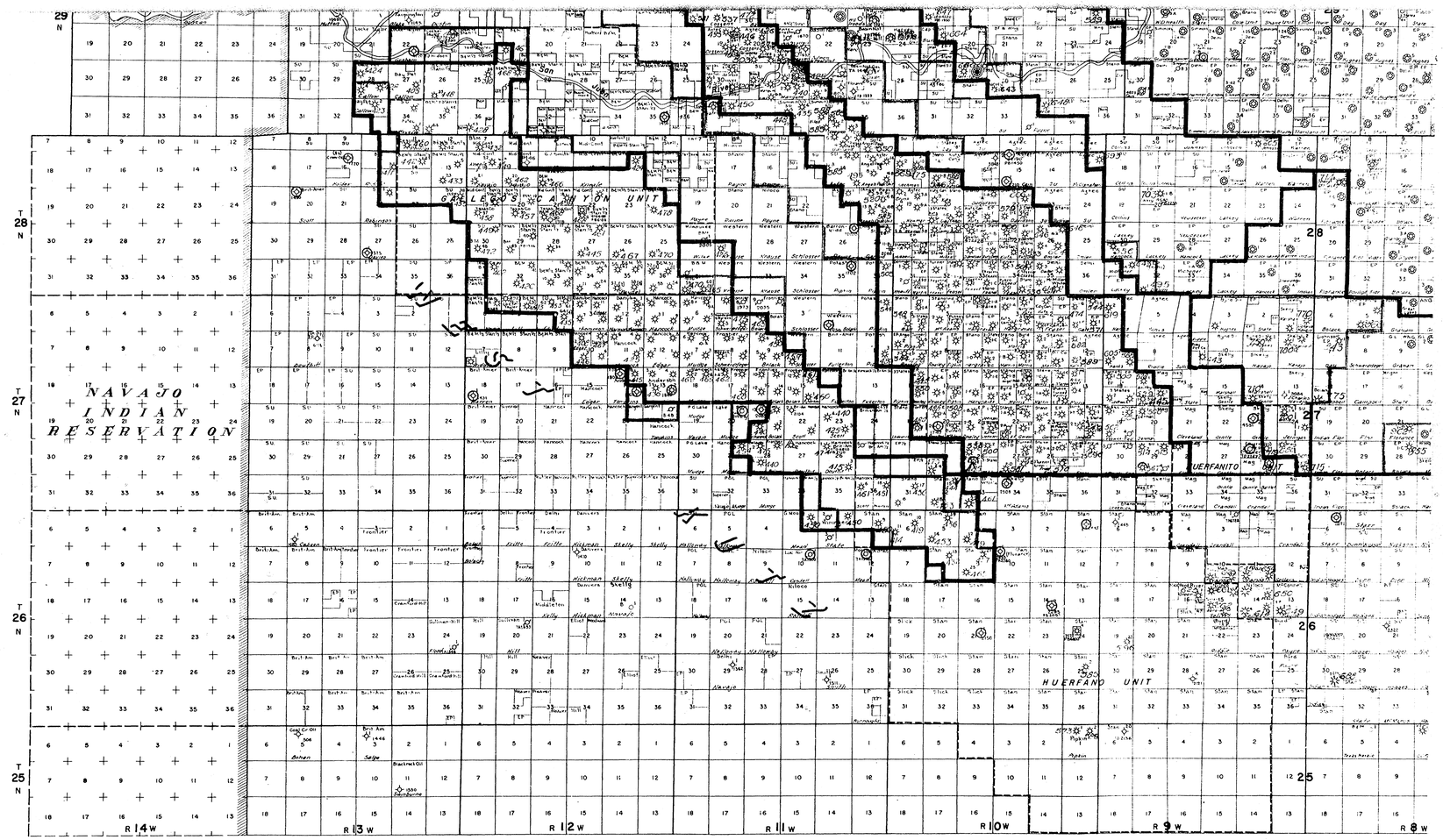
SAN JUAN COUNTY

RIO ARRIBA COUNTY

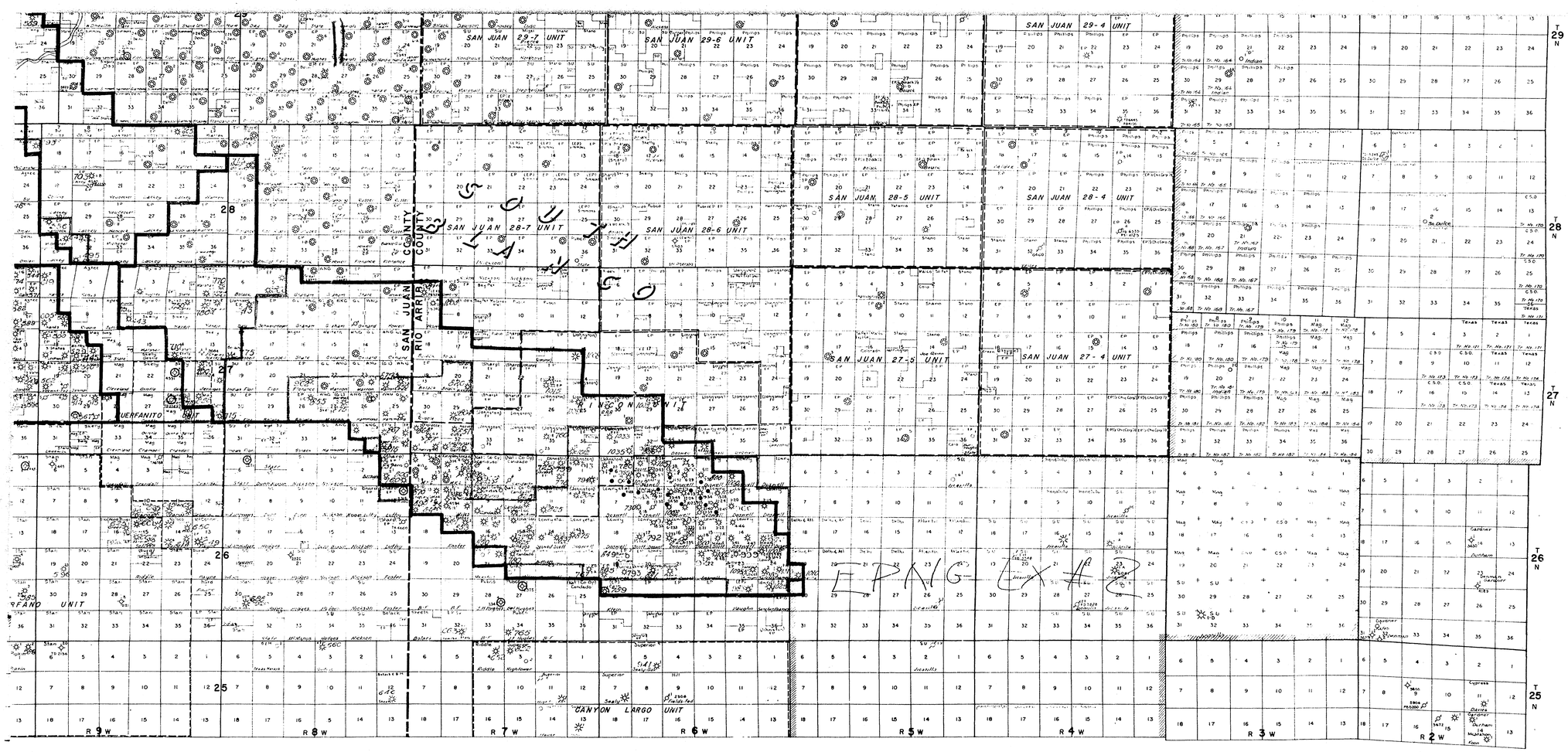
COLORADO

NEW MEXICO

423


NAVAJO
INDIAN
RESERVATION
GALLEGOS CANYON UNIT
HUERFANO UNIT
T 29 N
T 28 N
T 27 N
T 26 N
T 25 N
R 14 W
R 13 W
R 12 W
R 11 W
R 10 W
R 9 W
R 8 W

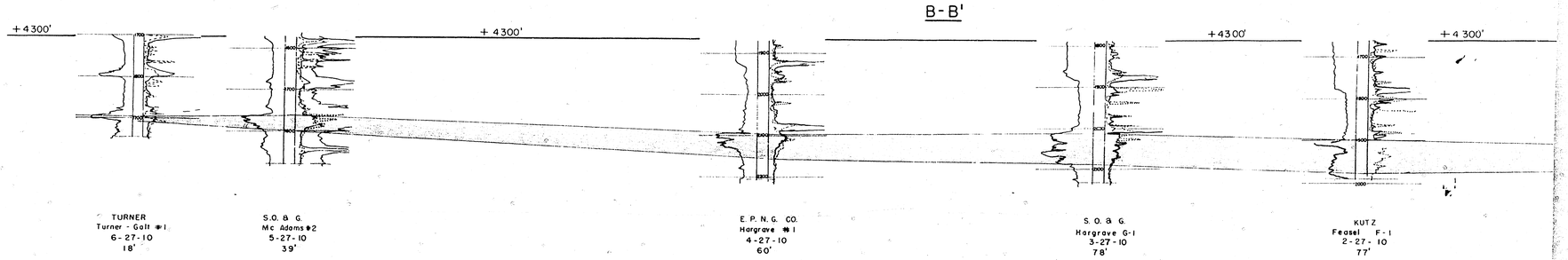
4124


SAN JUAN 29-7 UNIT
SAN JUAN 29-6 UNIT
SAN JUAN 29-4 UNIT
SAN JUAN 28-7 UNIT
SAN JUAN 28-6 UNIT
SAN JUAN 28-5 UNIT
SAN JUAN 28-4 UNIT
SAN JUAN 27-5 UNIT
SAN JUAN 27-4 UNIT
SAN JUAN COUNTY
RIO ARRIBA COUNTY
CANYON LARGO UNIT
T 29 N
T 28 N
T 27 N
T 26 N
T 25 N
R 9 W
R 8 W
R 7 W
R 6 W
R 5 W
R 4 W
R 3 W
R 2 W

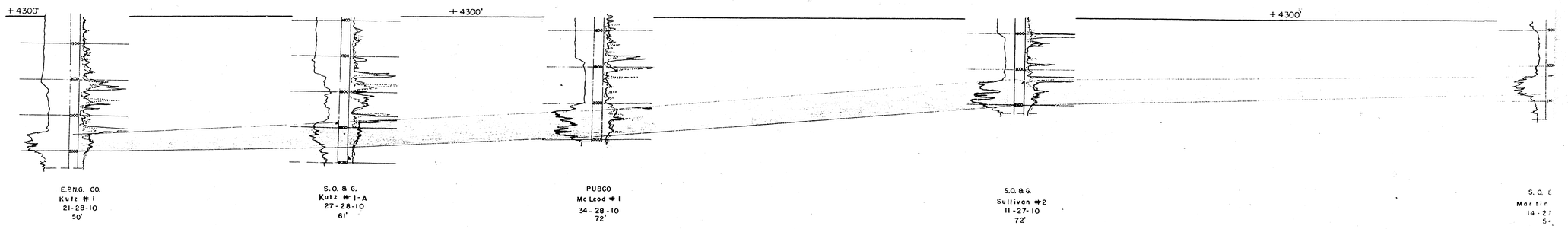
425

FULCHER KUTZ - P.C. FIELD
W-E & N-S CROSS SECTIONS
SAN JUAN CO., NEW MEXICO
Scale: 3" = 2000'
WEST TO EAST CROSS SECTION
B-B'
NORTH TO SOUTH CROSS SECTION
A-A'

B-B'



A-A'

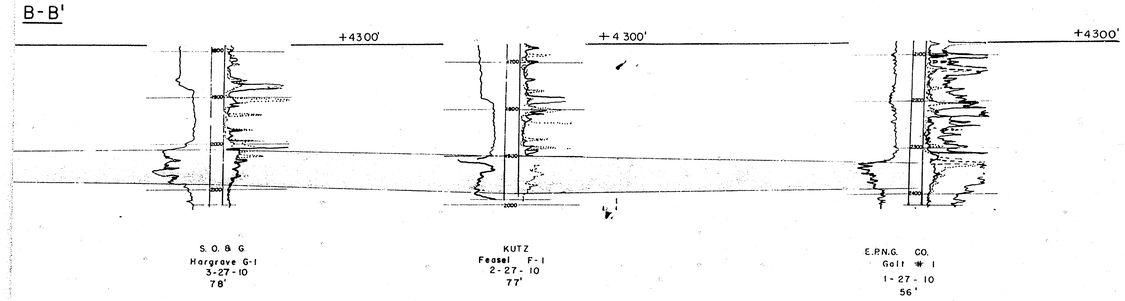


426

Slaughter
Ex #3

Z - P.C. FIELD
CROSS SECTIONS
O., NEW MEXICO
le: 3" = 2000'
T CROSS SECTION
B-B'
TH CROSS SECTION
A-A'

B-B'

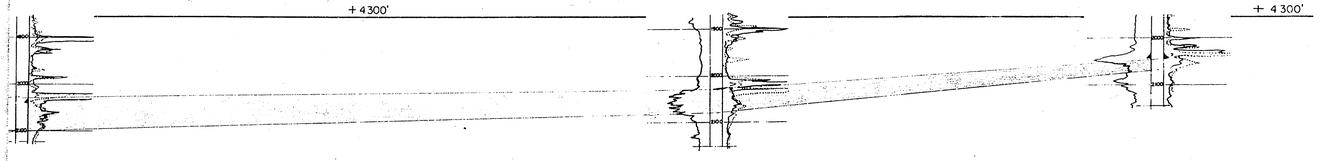


S. O. & G.
Hargrave G-1
3-27-10
78'

KUTZ
Feasel F-1
2-27-10
77'

E.P.N.G. CO.
Golt # 1
1-27-10
56'

A-A'

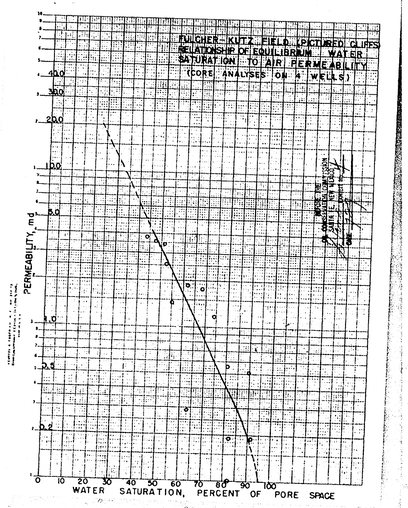


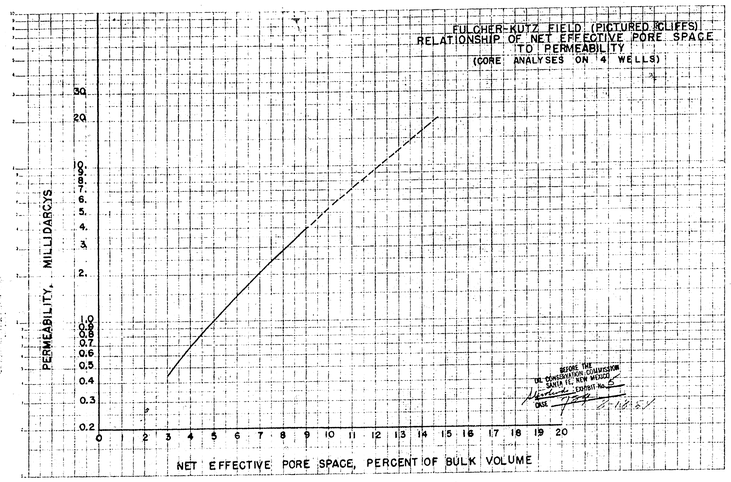
.O. & G.
llivan #2
1-27-10
72'

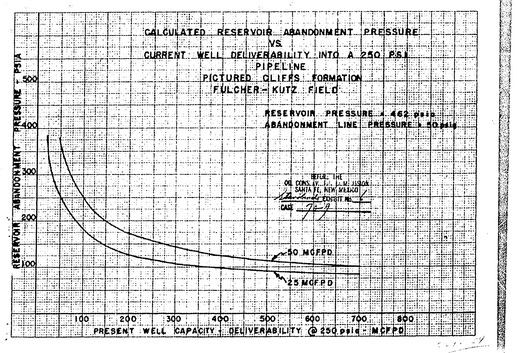
S. O. & G.
Martin A-1
14-27-10
54'

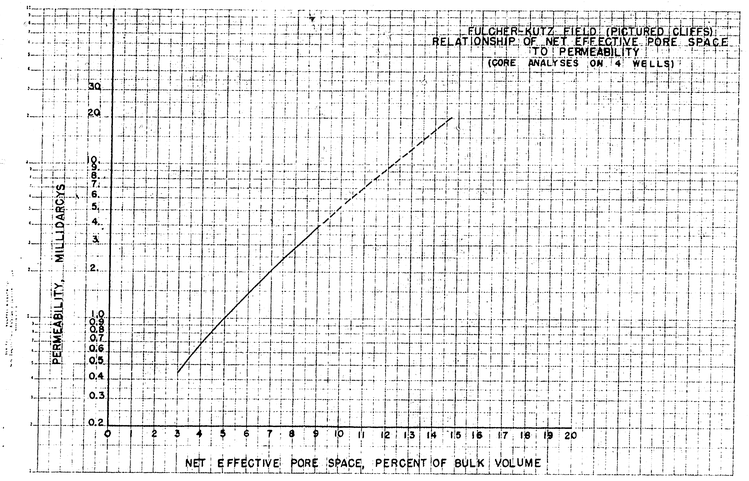
S. O. & G.
Frost A-1
26-27-10
22'

427

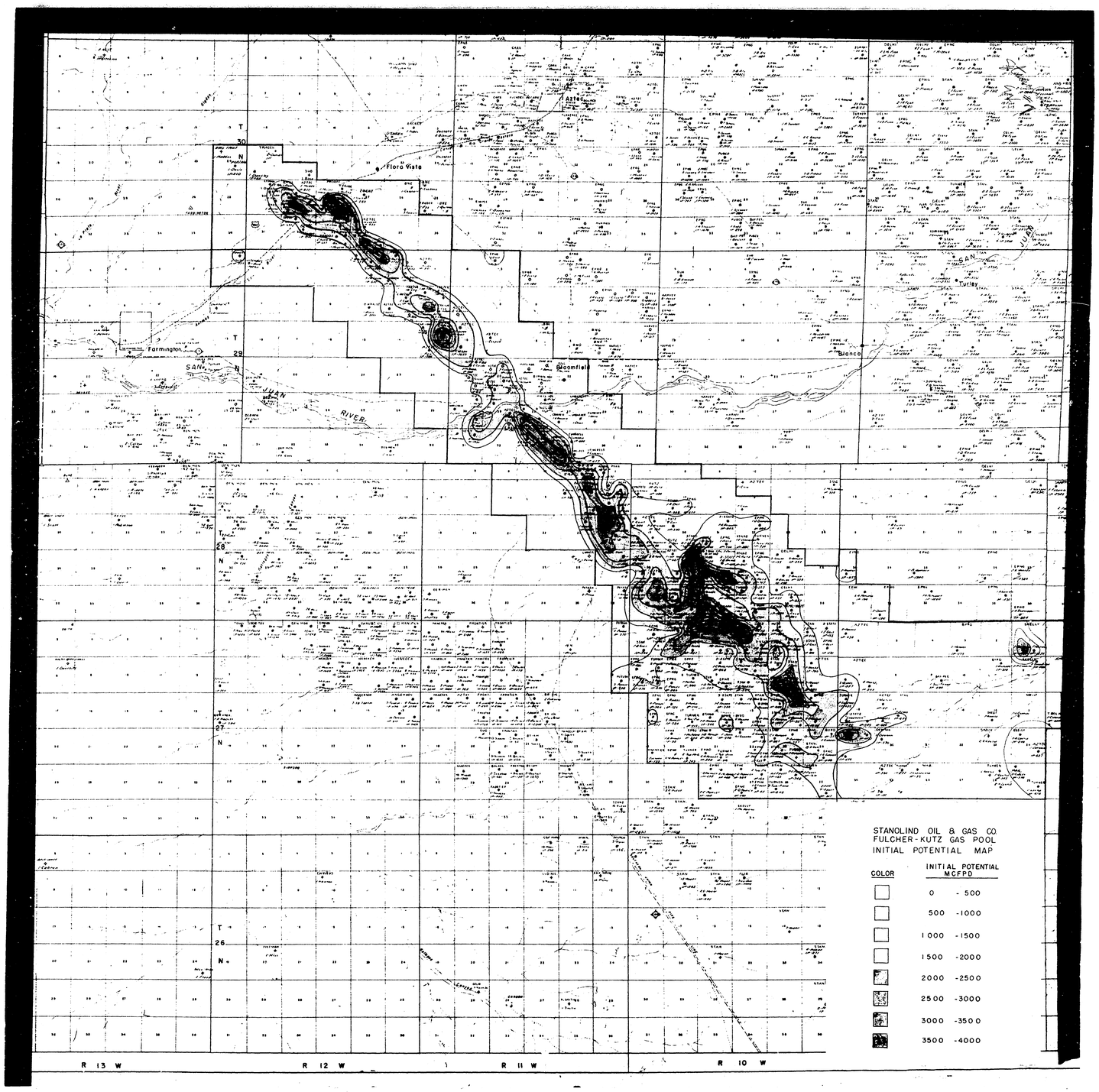

FULCHER-KUTZ FIELD (PICTURED CLIFFS)
RELATIONSHIP OF EQUILIBRIUM WATER SATURATION TO AIR PERMEABILITY
(CORE ANALYSES ON 4 WELLS)
PERMEABILITY, md
WATER SATURATION, PERCENT OF PORE SPACE


FULCHER-KUTZ FIELD (PICTURED CLIFFS)
RELATIONSHIP OF NET EFFECTIVE PORE SPACE TO PERMEABILITY
(CORE ANALYSES ON 4 WELLS)
PERMEABILITY, MILLIDARCYS
NET EFFECTIVE PORE SPACE, PERCENT OF BULK VOLUME
BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO
EXHIBIT No.
CASE

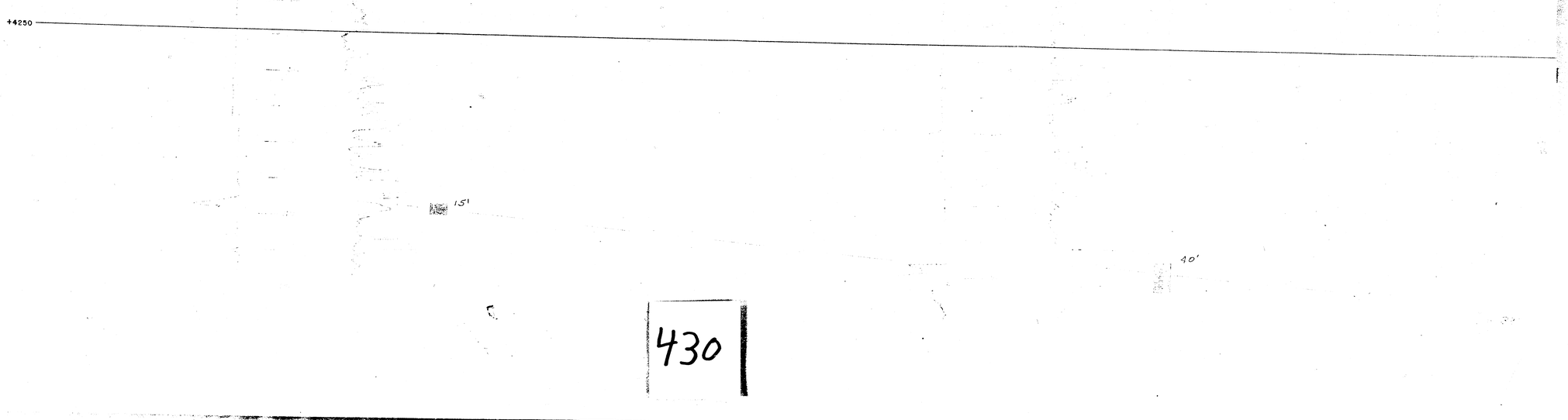

CALCULATED RESERVOIR ABANDONMENT PRESSURE
VS.
CURRENT WELL DELIVERABILITY INTO A 250 PSI PIPELINE
PICTURED CLIFFS FORMATION
FULCHER-KUTZ FIELD
RESERVOIR PRESSURE = 462 psia
ABANDONMENT LINE PRESSURE = 50 psia
50 MCFPD
25 MCFPD
RESERVOIR ABANDONMENT PRESSURE - PSIA
PRESENT WELL CAPACITY - DELIVERABILITY @ 250 psia - MCFPD


FULCHER-KUTZ FIELD (PICTURED CLIFFS)
RELATIONSHIP OF NET EFFECTIVE PORE SPACE TO PERMEABILITY
(CORE ANALYSES ON 4 WELLS)
PERMEABILITY, MILLIDARCYS
NET EFFECTIVE PORE SPACE, PERCENT OF BULK VOLUME

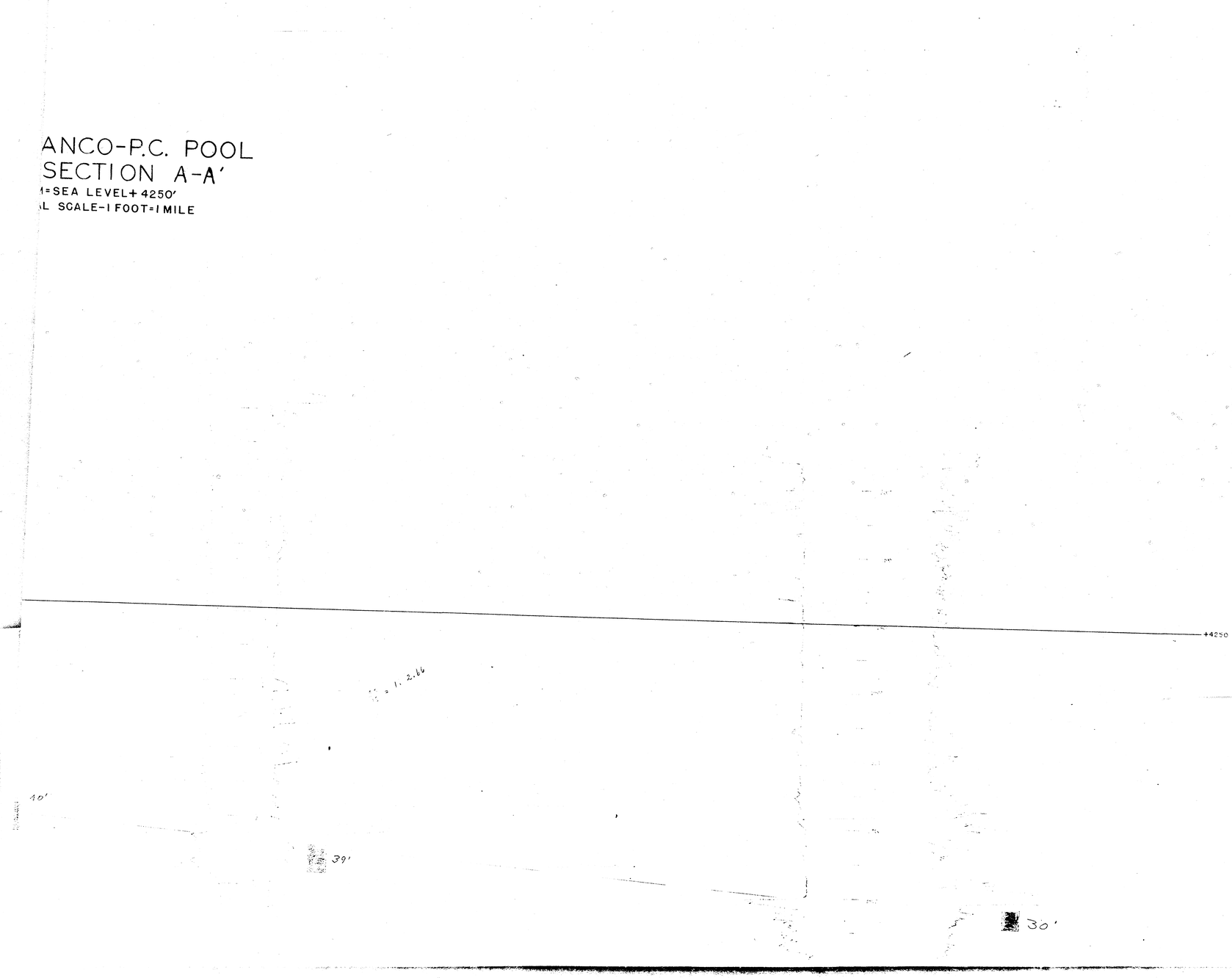
428


Flora Vista
Farmington
Bloomfield
Blanco
Turley
SAN JUAN RIVER
T 30 N
T 29 N
T 28 N
T 27 N
T 26 N
R 13 W
R 12 W
R 11 W
R 10 W
STANOLIND OIL & GAS CO
FULCHER-KUTZ GAS POOL
INITIAL POTENTIAL MAP
COLOR
INITIAL POTENTIAL MCFPD
0 - 500
500 -1000
1 000 -1500
1500 -2000
2000 -2500
2500 -3000
3000 -3500
3500 -4000

SOUTH BLANCO-P.C. POOL
CROSS-SECTION A-A'
DATUM=SEA LEVEL+4250'
HORIZONTAL SCALE-1 FOOT=1 MILE



ANCO-P.C. POOL
SECTION A-A'
=SEA LEVEL+4250'
L SCALE-1 FOOT=1 MILE



431

+4250

151

KING-LOCKE PET. CO.
MKL 4-11
SW SEC. 7-26N-7W
ELEV. 6193 D.F.
I.P. 464 MCFPD

KING-LOCKE PET. CO.
MKL 6-13
NE SEC. 7-26N-7W
ELEV. 6128 D.F.
I.P. 5723 MCFPD

432

+4250

40'

39'

30'

PET. CO.

26N-7W
D.F.
FPD

KING-LOCKE PET. CO.
MKL 1
SW SEC. 5-26N-7W
ELEV. 6043 D.F.
OFFSET WELL - MKL 2
I.P. 2210 MCFPD

KING-LOCKE PET. CO.
MKL 4-15
NE SEC. 5-26N-7W
ELEV. 6647 D.F.
I.P. 246 MCFPD

R11W

R10W

T30N

14

13

18

17

Aztec Nye No. 4
I.P. 1930
P.C. 2254-2675 N.P. 35'
1953 Daily Ave Prod - 440 MCF
Grav. .68 S.I.P. 685 psi

A'

B'

EPNG Schumacher No 3
I.P. 396
P.C. 2820-2920 N.P. 28'
1953 Daily Ave Prod - 52 MCF
Del. 74 Gr. .64 SIP 641 psi

EPNG Lloyd No. 1
I.P. 580
P.C. 2609-2685 N.P. 23
1953 Daily Ave Prod - 102 MCF
Del. 150 Grav. .645 SIP 590 psi

B

EPNG Koster No 1
I.P. 2930
P.C. 2730-2798 N.P. 36'
1953 Daily Ave. Prod. 640 MCF
Grav. .633 S.I.P. 655 psi

23

24

19

20

EPNG Murphy No. 1
I.P. 1085
P.C. 2647-2719 N.P. 23'
1953 Daily Ave Prod. 143 MCF
Del. 146 Grav. 650 SIP 676 psi

A

26

25

EPNG Forrest No. 1
T.D. 2387
Core Analysis:
Ave. Por. 20.5 %
Ave. Sat. H$_2$O 43.7 %
P.C. 2209-2387

35

36

N

R11W

SECTIONS A-A', B-B'
AZTEC-PICTURED CLIFFS

R10W

434

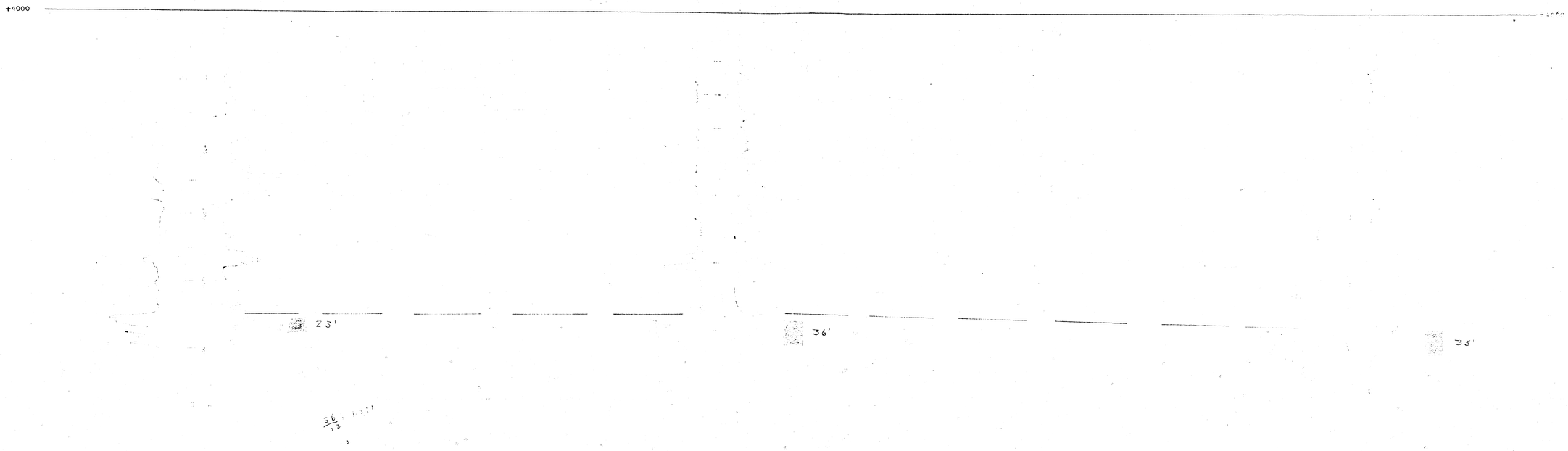
+4000

23'

36'

35'

435



EL PASO NAT. GAS CO.
MURPHY # 1
SE SEC. 24-30N-11W
ELEV. 6201 D.F.
I.P. 1085 MCFPD

EL PASO NAT. GAS CO.
KESSLER # 1
NE SEC. 24-30N-11W
ELEV. 6278 D.F.
I.P. 2930 MCFPD

AZTEC OIL & GAS CO.
NYE # 4
SE SEC. 13-30N-11W
ELEV. 6105 D.F.
I.P. 1930 MCFPD

Exhibit # 4

AZTEC P.C. POOL
CROSS-SECTION A-A'

DATUM = SEA LEVEL + 4000'
HORIZONTAL SCALE- 1 FOOT = 0.5 MILE

436

+4000

+4000

23'

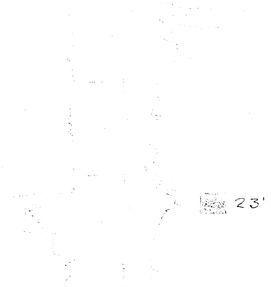
36'

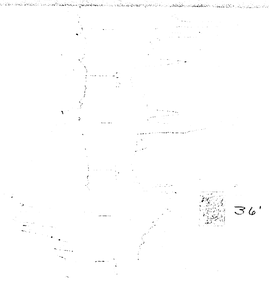
28'

EL PASO NAT. GAS CO.
LLOYD # 1
NW SEC. 24-30N-11W
ELEV. 6166 D.F.

EL PASO NAT. GAS CO.
KESSLER # 1
NE SEC. 24-30N-11W
ELEV. 6278 D.F.

EL PASO NAT. GAS CO.
SCHUMAKER # 3
SW SEC. 18-30N-10W
ELEV. 6333 D.F.





EL PASO NAT. GAS CO.
LLOYD # 1
NW SEC. 24-30N-11W
ELEV. 6166 D.F.
I.P. 560 MCFPD

EL PASO NAT. GAS CO.
KESSLER # 1
NE SEC. 24-30N-11W
ELEV. 6278 D.F.
I.P. 2930 MCFPD

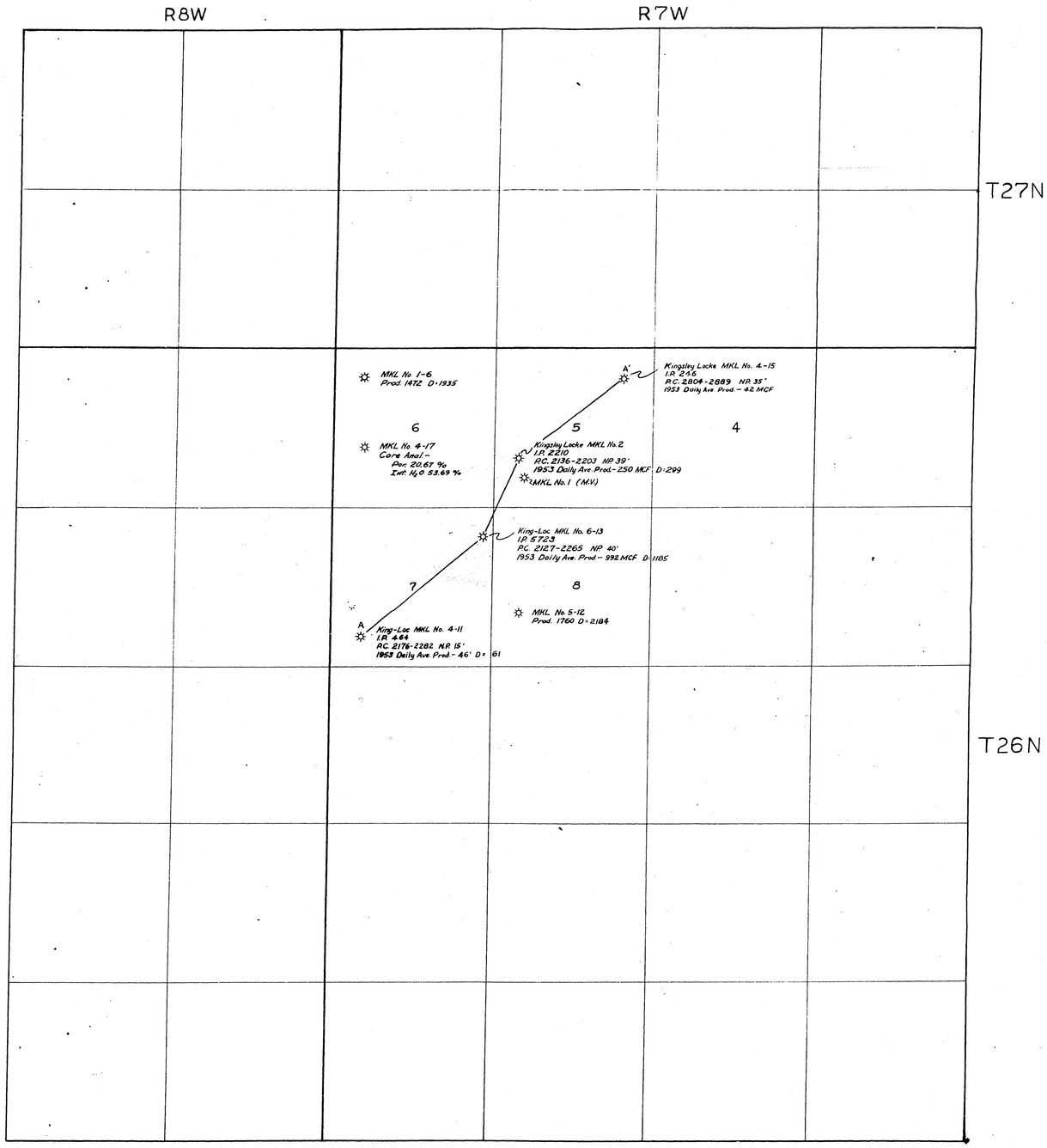
EL PASO NAT. GAS CO.
SCHUMAKER # 3
SW SEC. 18-30N-10W
ELEV. 6333 D.F.
I.P. 396 MCFPD

AZTEC P.C. POOL
CROSS-SECTION B-B'

Exhibit # 5

DATUM = SEA LEVEL + 4000
SCALE - 1 FOOT = 0.5 MILE

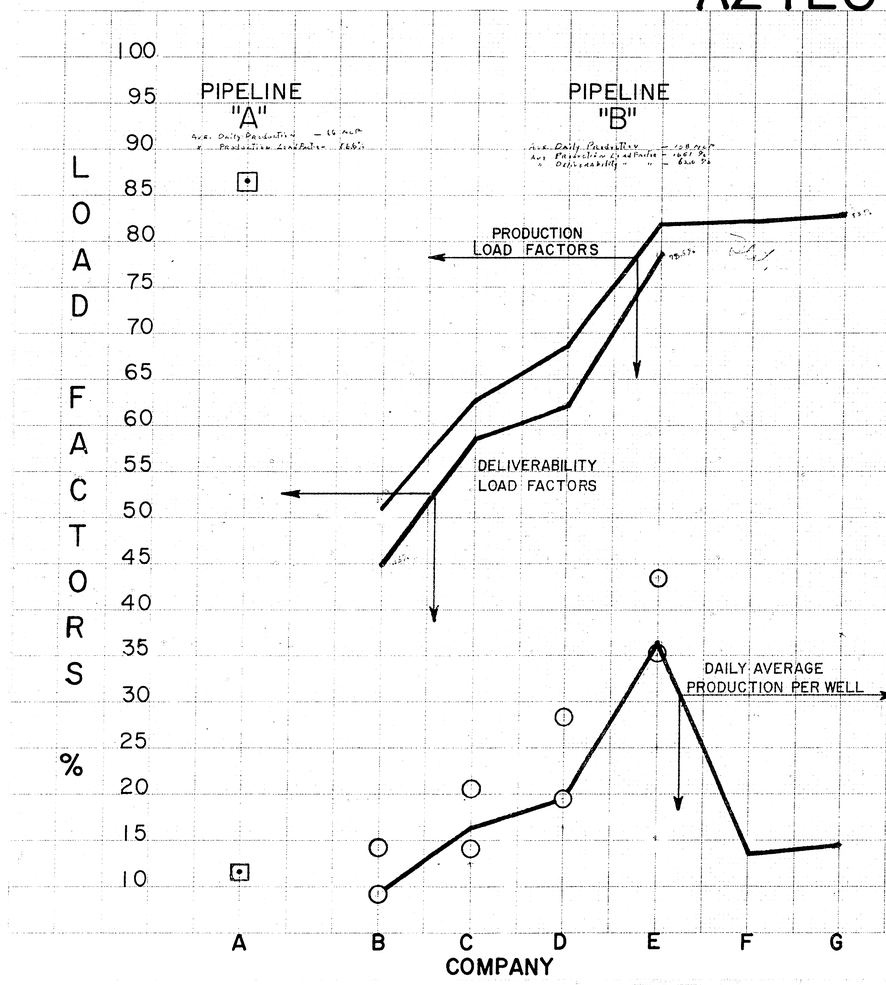
438

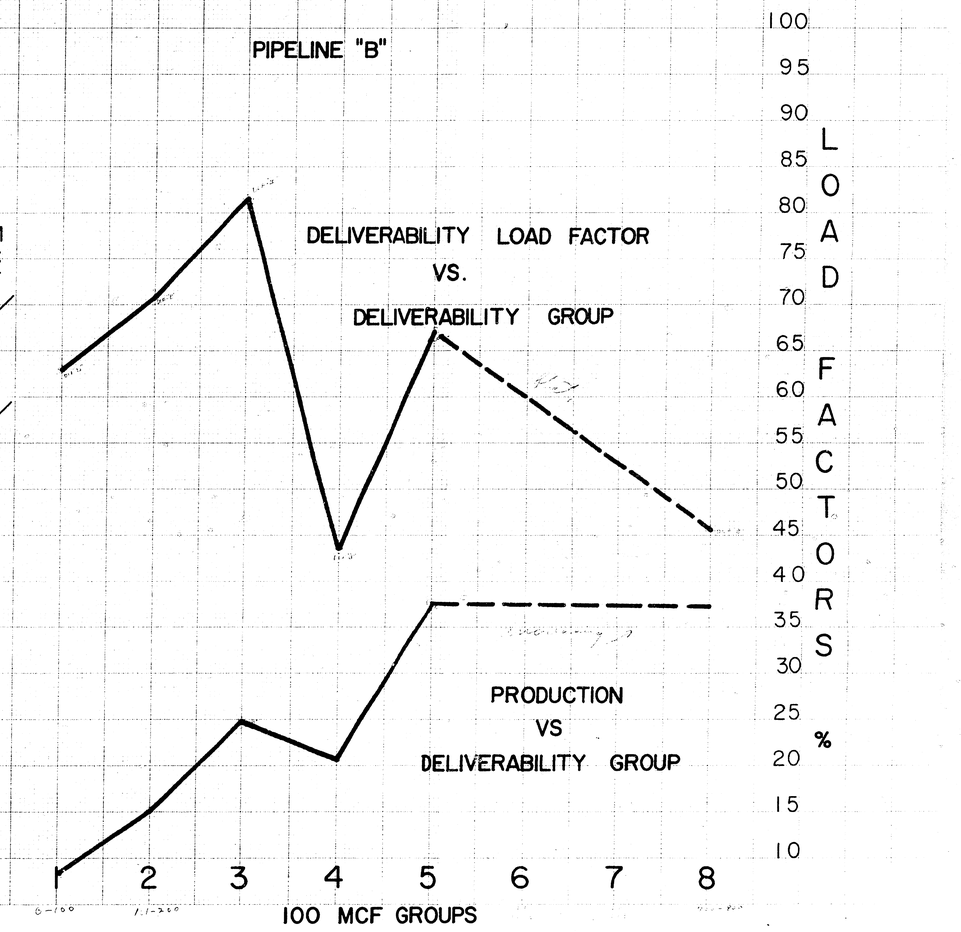


SECTION A-A'
SOUTH BLANCO-PICTURED CLIFFS

439

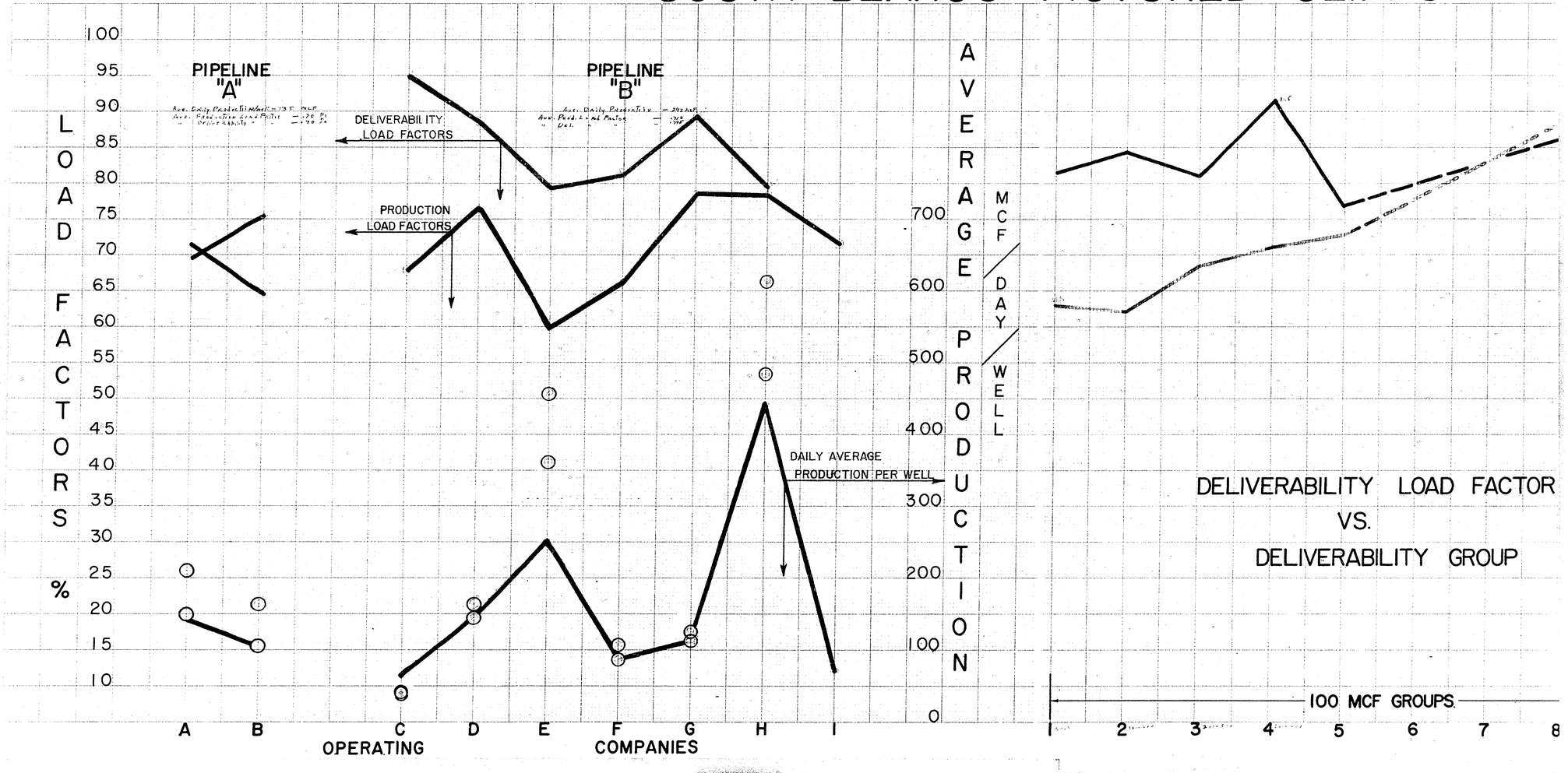
AZTEC–PICTURED CLIFFS





440

SOUTH BLANCO-PICTURED CLIFFS



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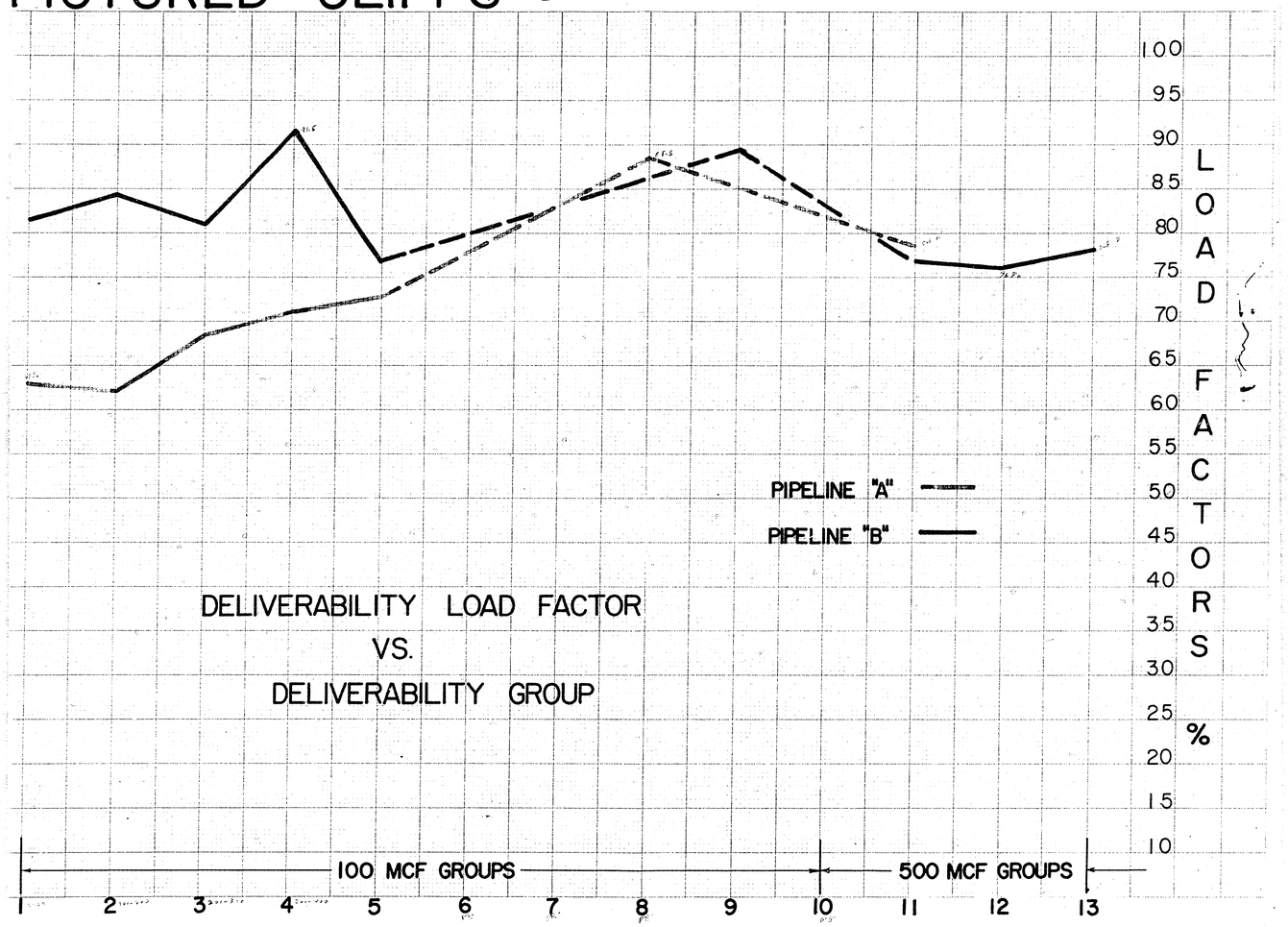
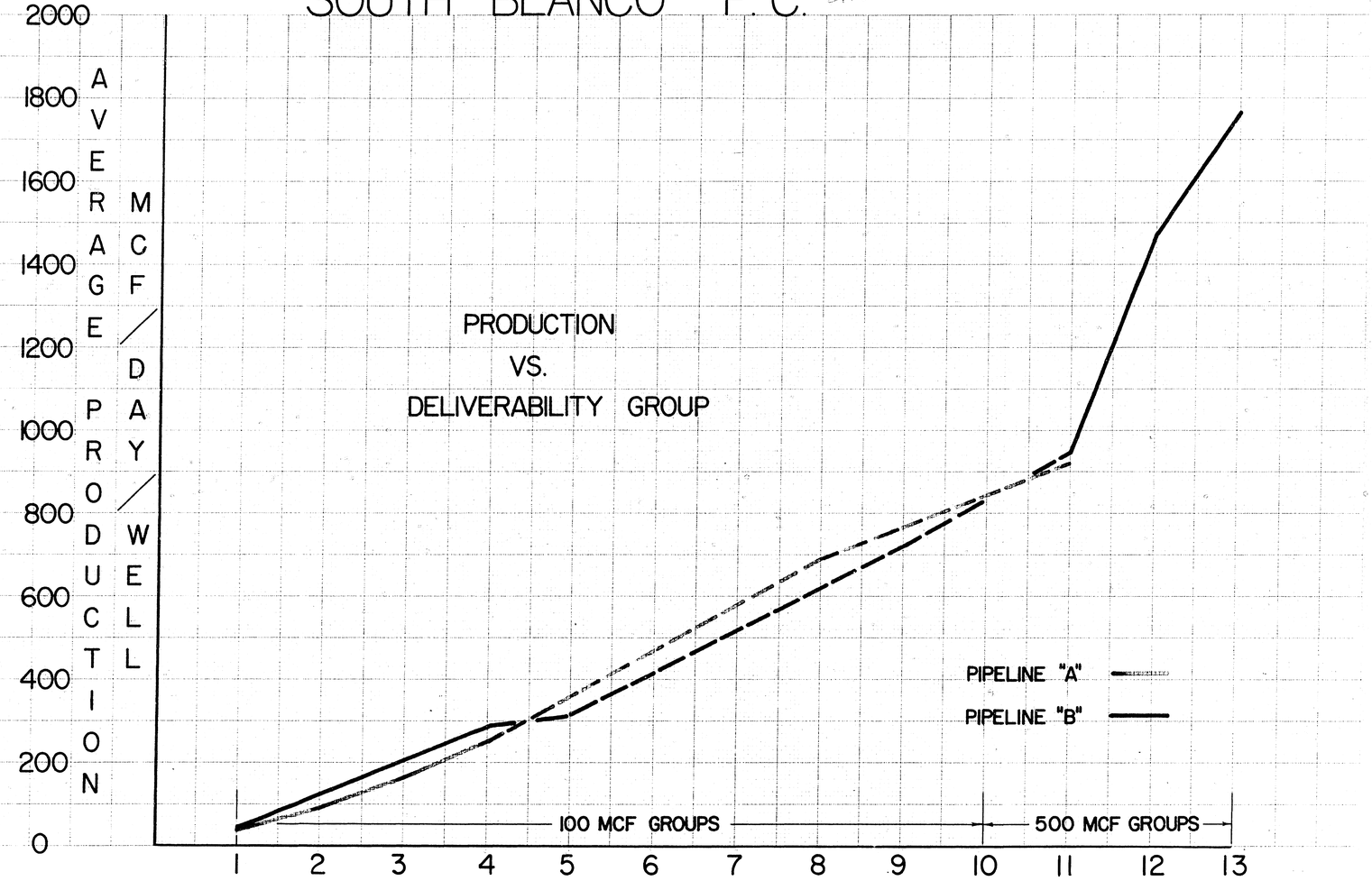
PICTURED CLIFFS



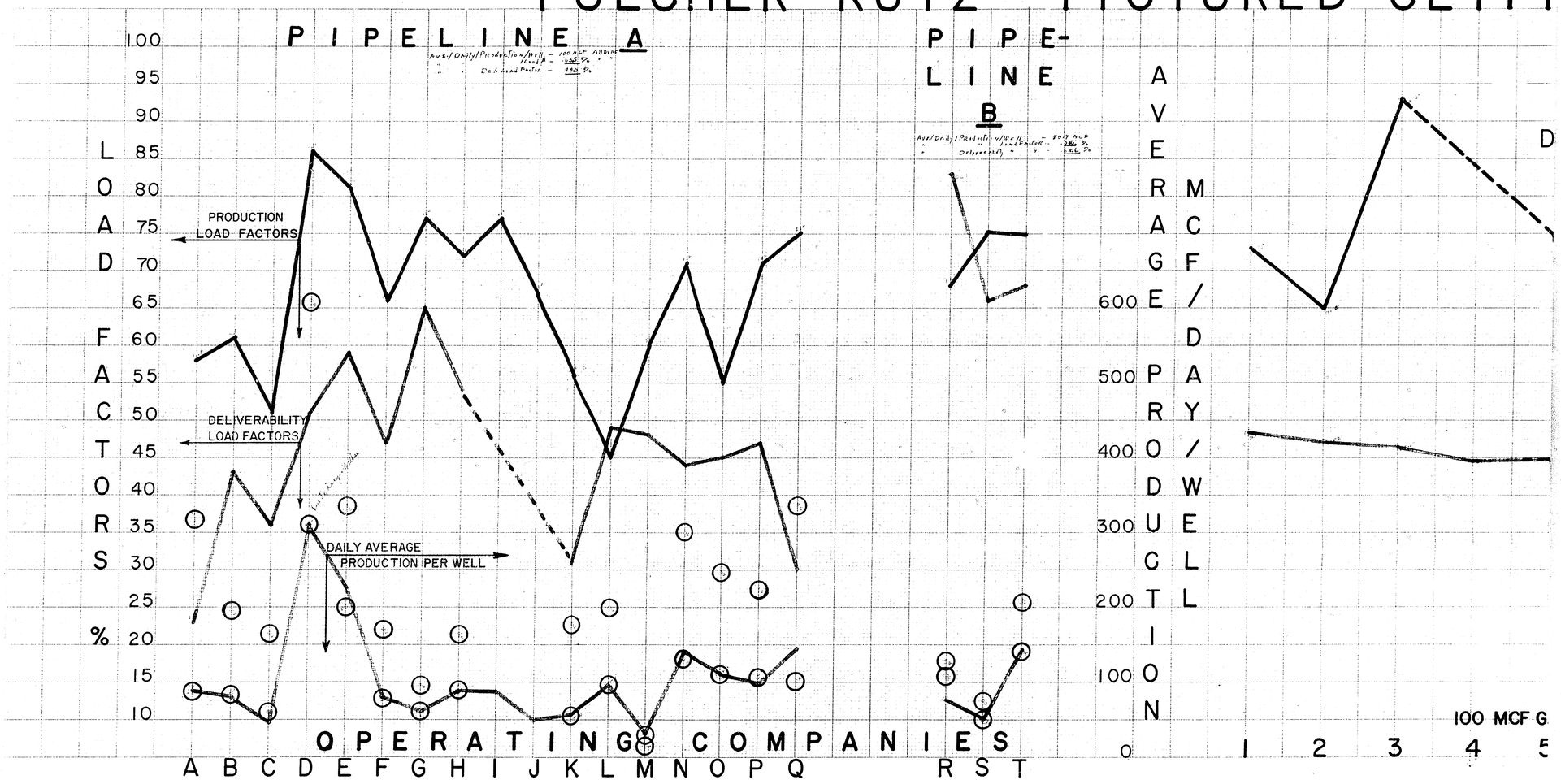
442

SOUTH BLANCO P.C. Exh 0



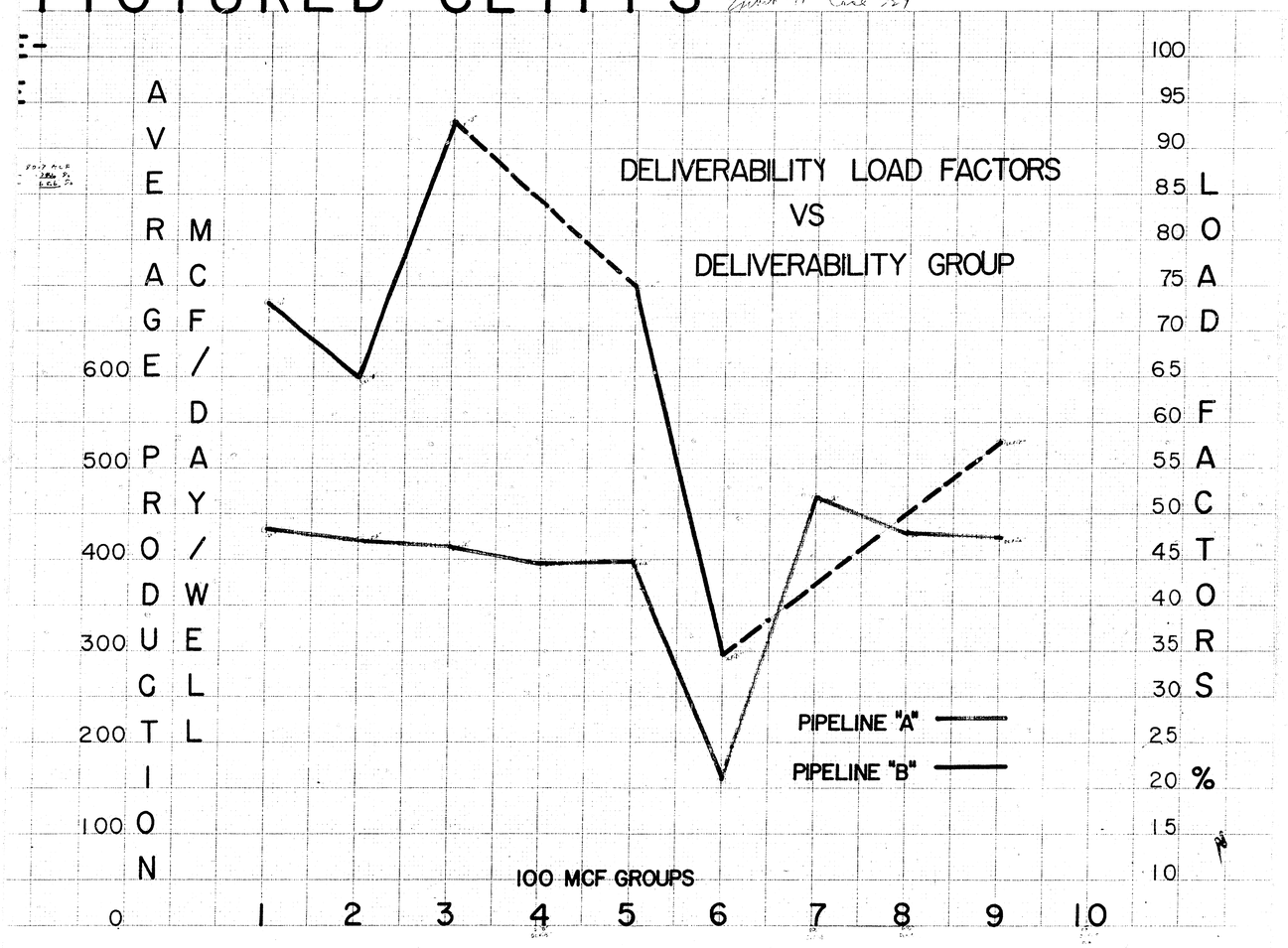
443

FULCHER KUTZ — PICTURED CLIFF



PICTURED CLIFFS

Exhibit 11 Case 1559



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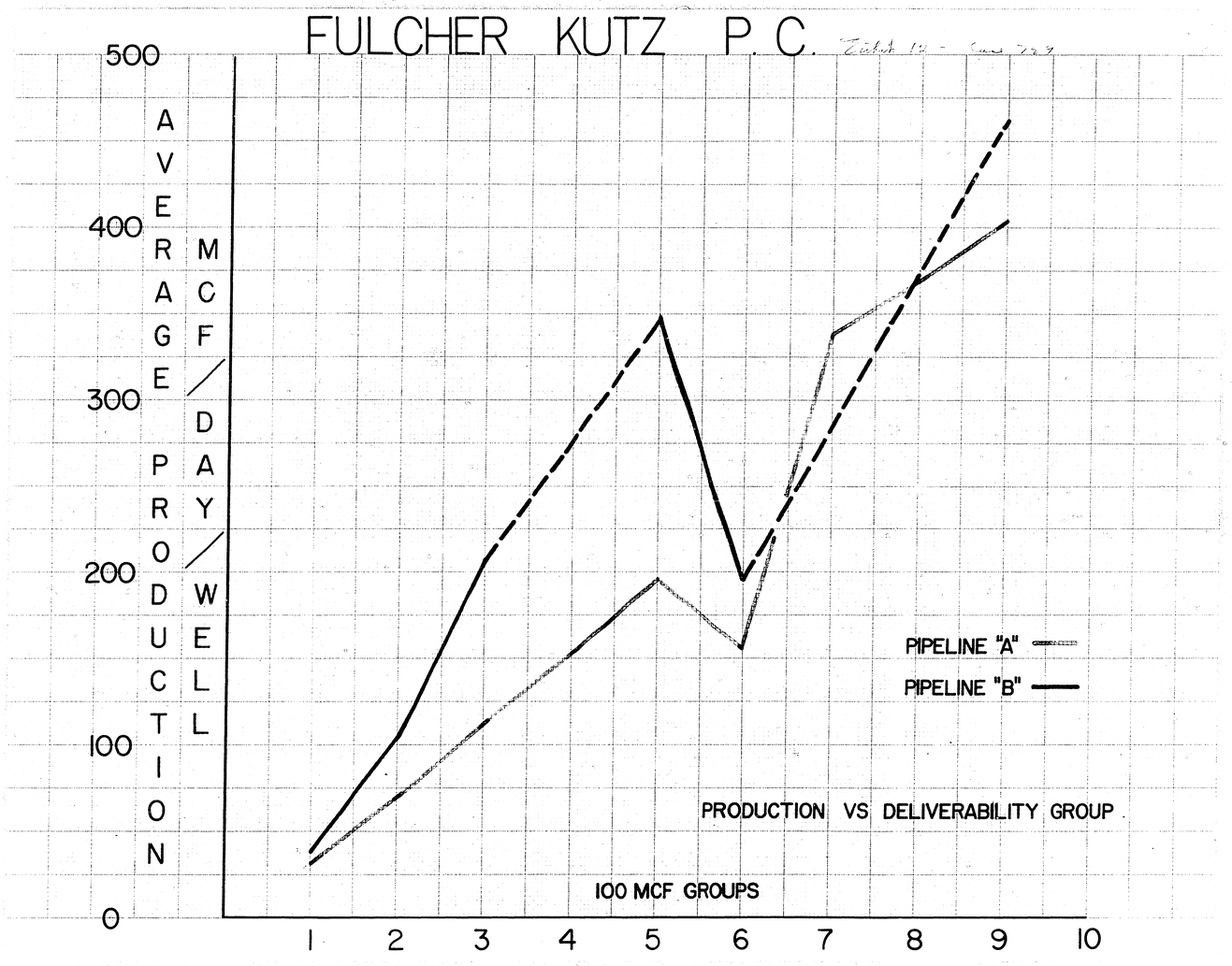
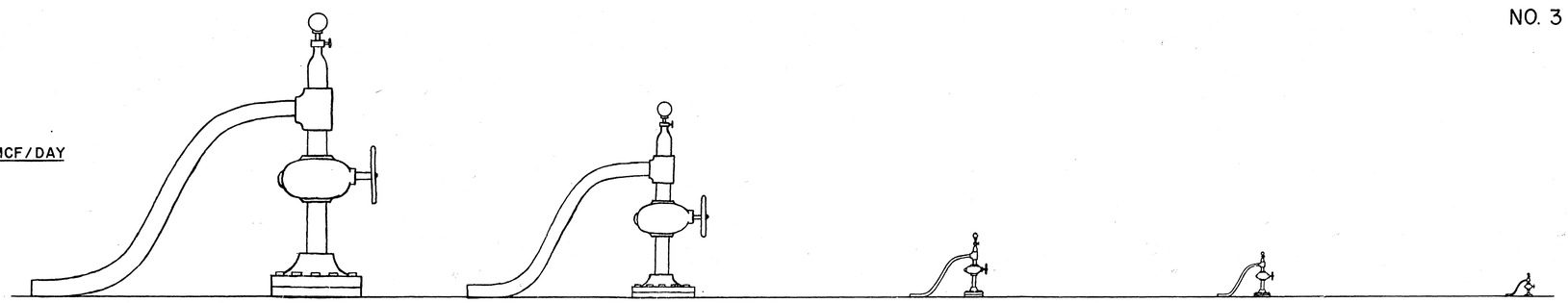

FULCHER KUTZ P.C.
500
400
300
200
100
0
AVERAGE PRODUCTION MCF/DAY/WELL
PIPELINE "A"
PIPELINE "B"
PRODUCTION VS DELIVERABILITY GROUP
100 MCF GROUPS
1
2
3
4
5
6
7
8
9
10

1953 PRODUCTION vs. RECOVERABLE RESERVES
AZTEC-PICTURED CLIFFS

Fig. 13

PRODUCTION
VERTICAL SCALE: 1" = 100 MCF/DAY



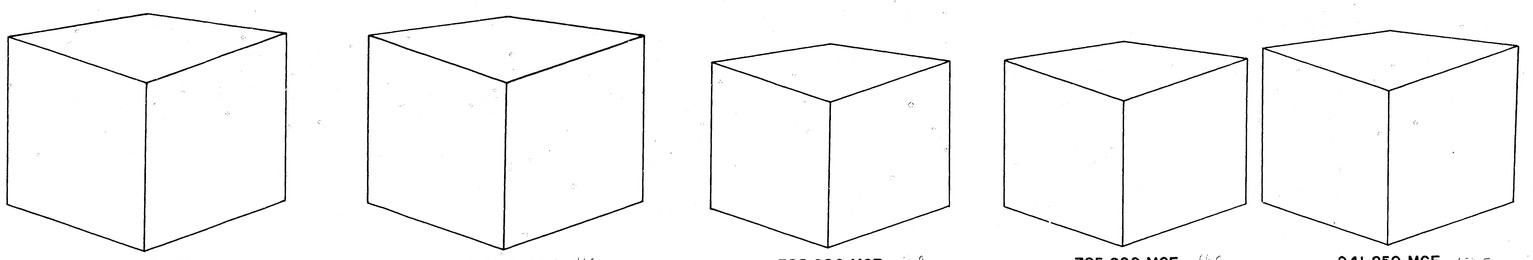
KESSLER NO. 1 : NYE NO. 4 :: 1.454 : 1

KESSLER NO. 1 : MURPHY NO. 1 :: 4.475 : 1

KESSLER NO. 1 : LLOYD NO. 1 :: 6.274 : 1

KESSLER NO. 1 : SCHUMACHER NO. 3 :: 12.307 : 1

RESERVES
SCALE: 1"³ = 25,000 MCF at N.M.S.C.



1,230,240 MCF

1,196,000 MCF

785,920 MCF

785,920 MCF

941,850 MCF

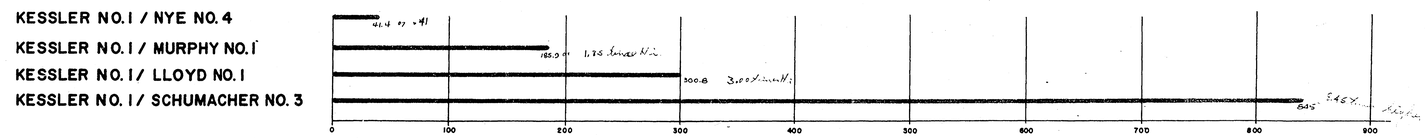
KESSLER NO. 1 : NYE NO. 4 :: 1.028 : 1

KESSLER NO. 1 : MURPHY NO. 1 :: 1.565 : 1

KESSLER NO. 1 : LLOYD NO. 1 :: 1.565 : 1

KESSLER NO. 1 : SCHUMACHER NO. 3 :: 1.306 : 1

PERCENTAGE BY WHICH
PRODUCTION RATIO EXCEEDS
RESERVES RATIO

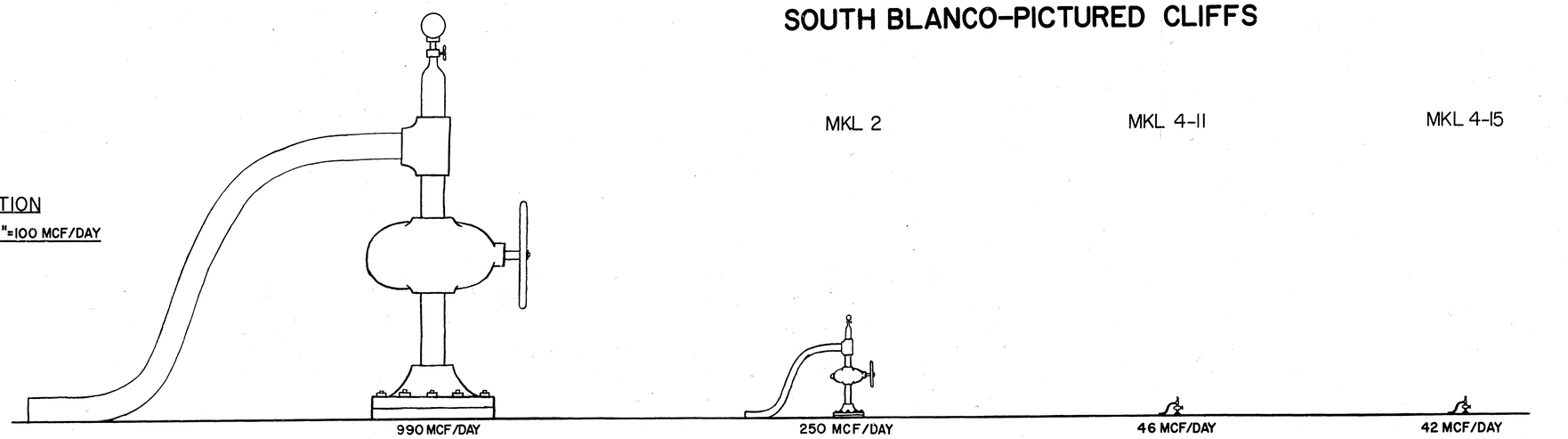


447

1953 PRODUCTION vs. RECOVERABLE RESERVES
SOUTH BLANCO-PICTURED CLIFFS

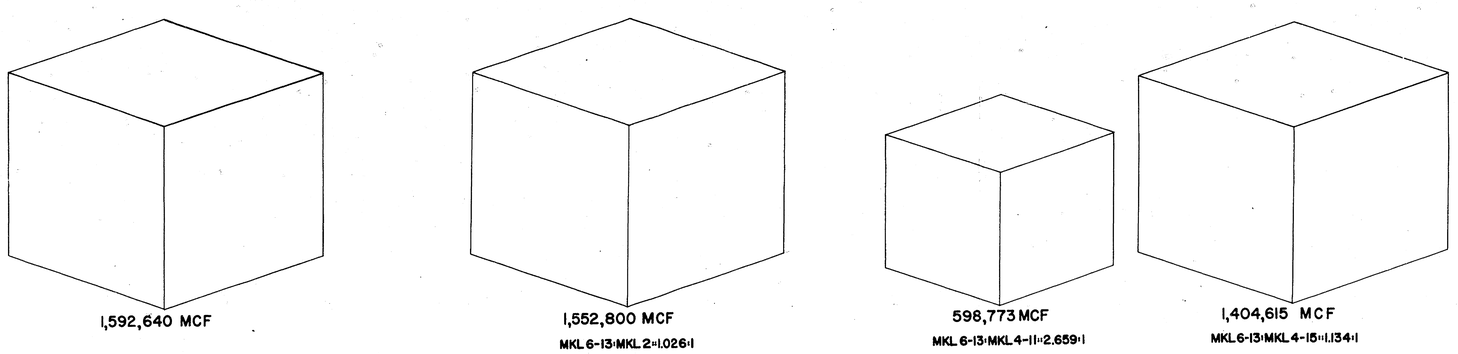
PRODUCTION

VERTICAL SCALE: 1" = 100 MCF/DAY

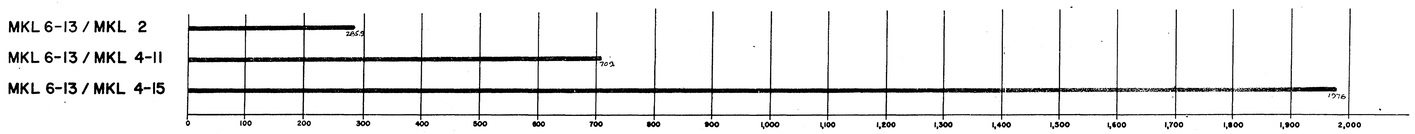


RESERVES

SCALE: 1" = 25,000 MCF at N.M.S.C.



PERCENTAGE BY WHICH PRODUCTION RATIO EXCEEDS RESERVES RATIO



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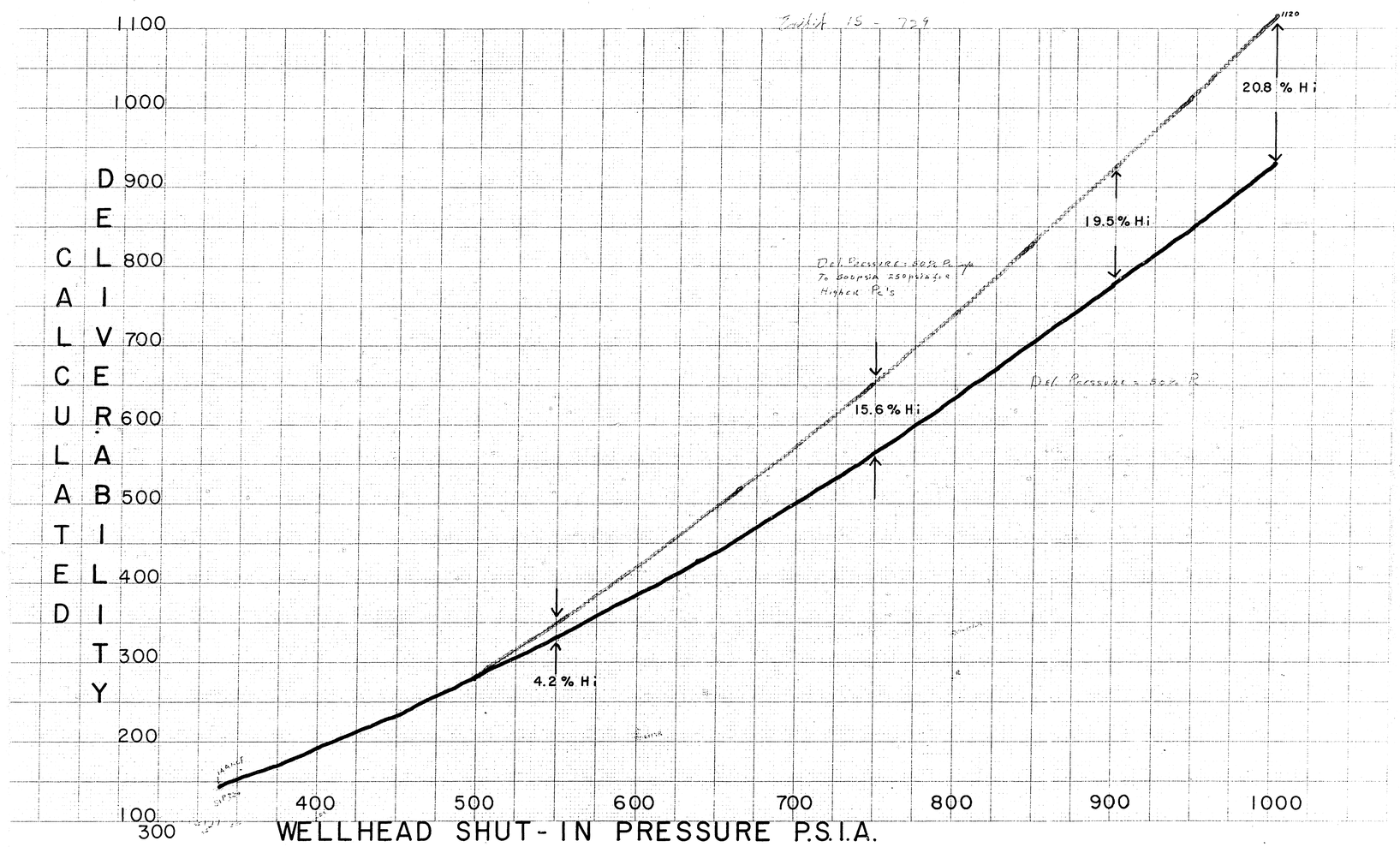


CALCULATED DELIVERABILITY
1100
1000
900
800
700
600
500
400
300
200
100
300
400
500
600
700
800
900
1000
WELLHEAD SHUT-IN PRESSURE P.S.I.A.
20.8 % Hi
19.5 % Hi
15.6 % Hi
4.2 % Hi

449

LANE RADIOACTIVITY LOG WELLS

COMPANY

Location of Well

Case 737
Comco
Exh. 3-2

COMPANY: CONTINENTAL OIL COMPANY
WELL: JACK A-21 No. 1
FIELD: MAXXX
COUNTY: LEA STATE: N. MEX.
LOCATION: 660' FROM SAW LINE OF SEC. 21
T26 R37E

FILE NO.

COMPANY CONTINENTAL OIL COMPANY
WELL JACK A-21 No. 1
FIELD MAXXX
COUNTY LEA STATE NEW MEX.
LOCATION 660' FROM SAW LINE OF SEC. 21 T26S R37E

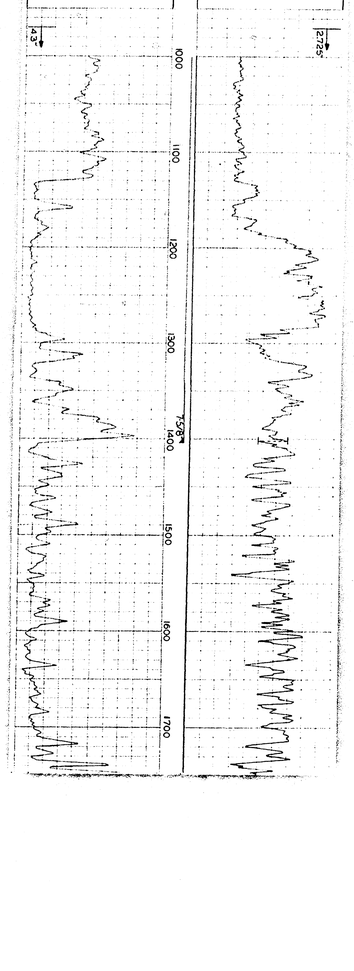
LOG MEAS. FROM 10' ABOVE CHCHT FLOOR ELEV.
DRLG. MEAS. FROM 10' ABOVE CHCHT FLOOR ELEV.
PERM. DATUM 10' ABOVE CHCHT FLOOR ELEV.

TYPE OF LOG	GAMMA-RAY	NEUTRON
RUN NO	ONE - RW	ONE - RW
DATE	6-26-46	6-26-46
TOTAL DEPTH (DRILLER) [WTR. LINE]	3660	3660
EFFECTIVE DEPTH (DRILLER)	3302	3302
TOP OF LOGGED INTERVAL	1000	1000
BOTTOM OF LOGGED INTERVAL	3300	3300
TYPE OF FLUID IN HOLE	DRY	DRY
FLUID LEVEL		
MAXIMUM RECORDED TEMP.		
NEUTRON SOURCE STRENGTH & TYPE		60CH
SOURCE SPACING — IN.		8.25
LENGTH OF MEASURING DEVICE — IN.	36"	9"
O.D. OF INSTRUMENT — IN.	5-5/8"	5 5/8"
TIME CONSTANT — SECONDS	20	20
LOGGING SPEED FT. MIN.		
STATISTICAL VARIATION — IN.	2%	2%
SENSITIVITY REFERENCE	RUDDER & FLOW	
RECORDED BY	FORSHEE	FORSHEE
WITNESSED BY		

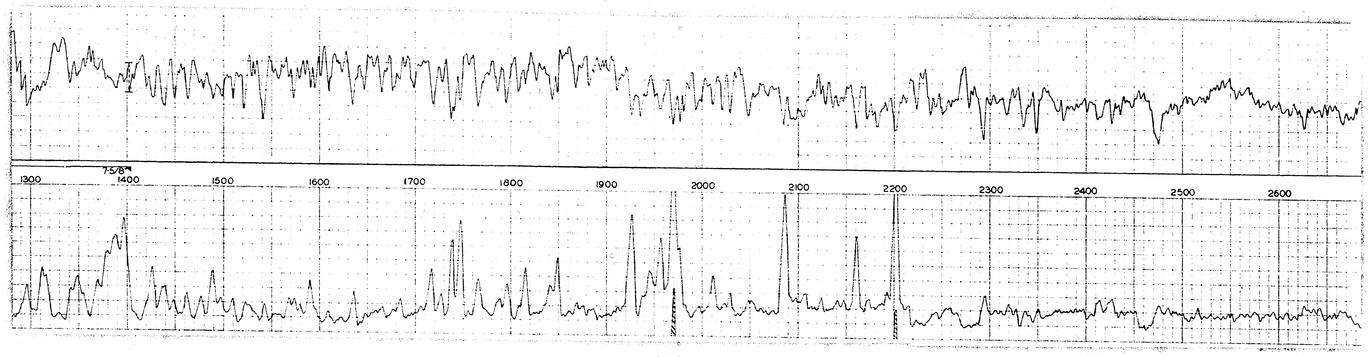
CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM	WELL RECORD		FROM	R A LOG	
1		16-3/4		SURF.	TO	350		TO	
1		7-5/8		SURF.	TO	1405		TO	
1		5-1/2		SURF.	TO	3264		TO	
					TO			TO	
					TO			TO	

REMARKS OR OTHER DATA

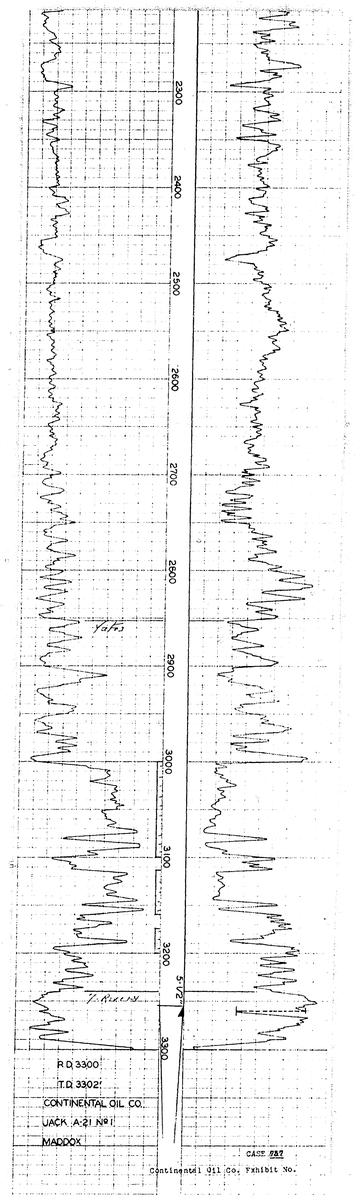


450


7.5/8"
1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600

451

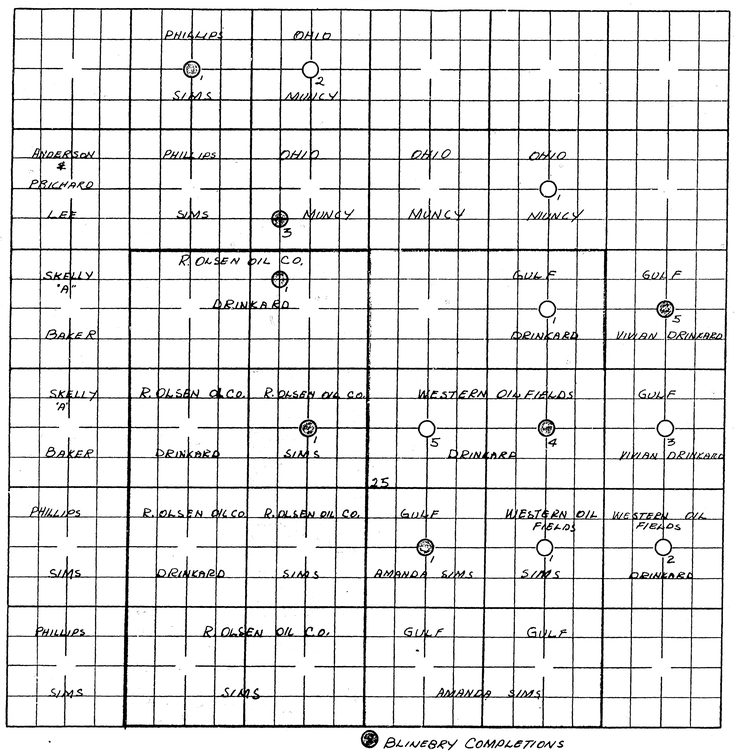
452


2300
2400
2500
2600
2700
2800
Yates
2900
3000
3100
3200
7 Rivers
5 1/2"
3300
R.D. 3300'
T.D. 3302'
CONTINENTAL OIL CO.
JACK A-21 No. 1
MADDOX
CASE 587
Continental Oil Co. Exhibit No.

LEA COUNTY NEW MEXICO

SEC. 25 TOWNSHIP NO. 22 SOUTH RANGE 37 EAST OF N.M. PRINCIPAL MERIDIAN

NORTH



● BLINEBRY COMPLETIONS

FORM U200 UNIVERSAL BLUE PRINT & SUPPLY COMPANY, OKLAHOMA CITY, OKLA.

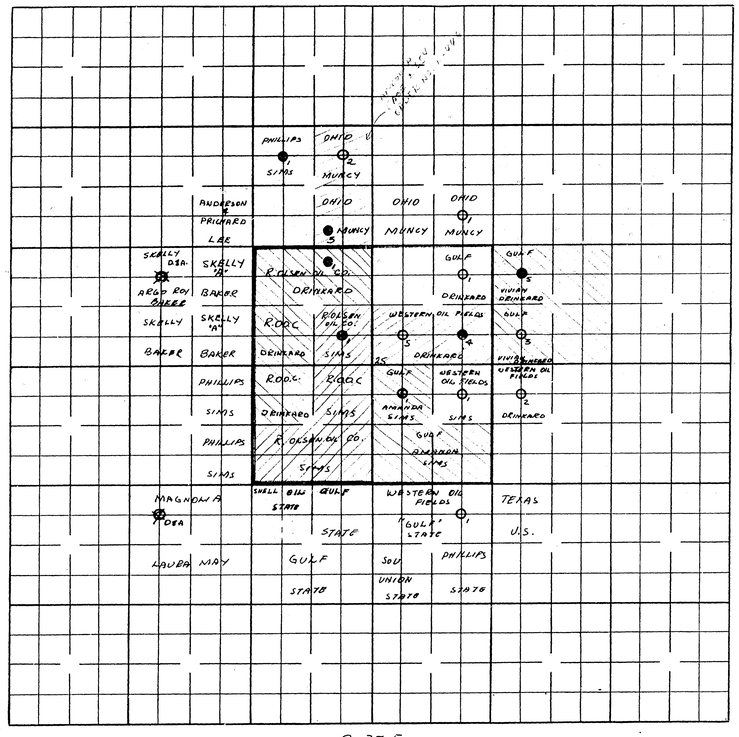
BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO
Raleigh EXHIBIT No. 1
CASE 741 and 742

453

LEA COUNTY N.M.

SEC. 25 TOWNSHIP NO. 22 SOUTH RANGE 37E OF N.M. PRINCIPAL MERIDIAN

NORTH



T 22 S

R 37 E

● BLINEBRY GAS COMPLETIONS

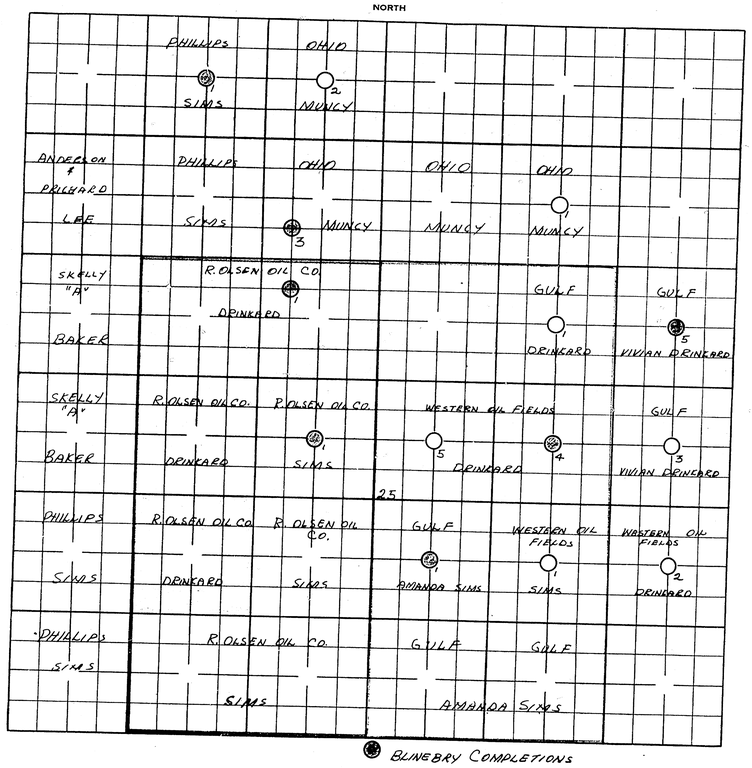
FORM U200 UNIVERSAL BLUE PRINT & SUPPLY COMPANY, OKLAHOMA CITY, OKLA.

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO
Raleigh EXHIBIT No. 2
CASE 741 and 742

LEA COUNTY NEW MEXICO

SEC. 25 TOWNSHIP NO. 22 SOUTH RANGE 37 EAST OF N. M. PRINCIPAL MERIDIAN

NORTH



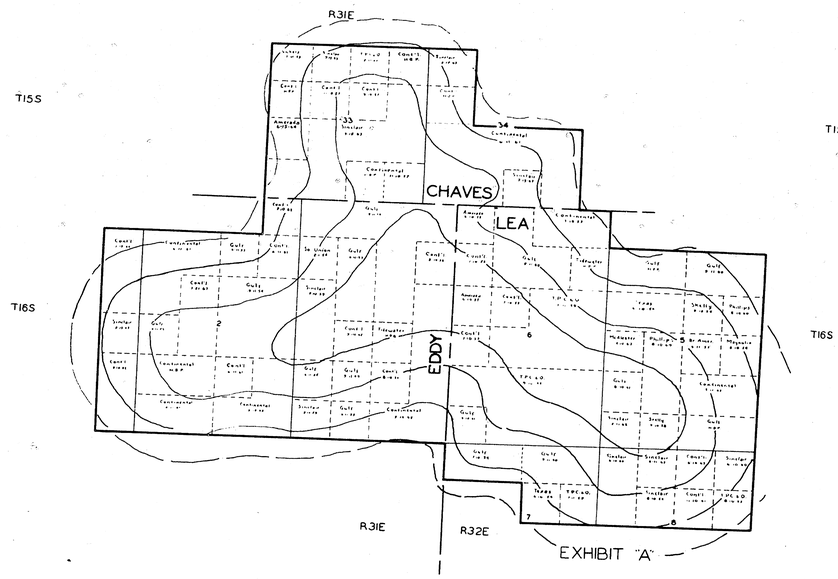
BLINEBRY COMPLETIONS

454

FORM U200 UNIVERSAL BLUE PRINT & SUPPLY COMPANY, OKLAHOMA CITY, OKLA.

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
R. Olsen Oil Co. EXHIBIT No. 1
CASE 741 and 742

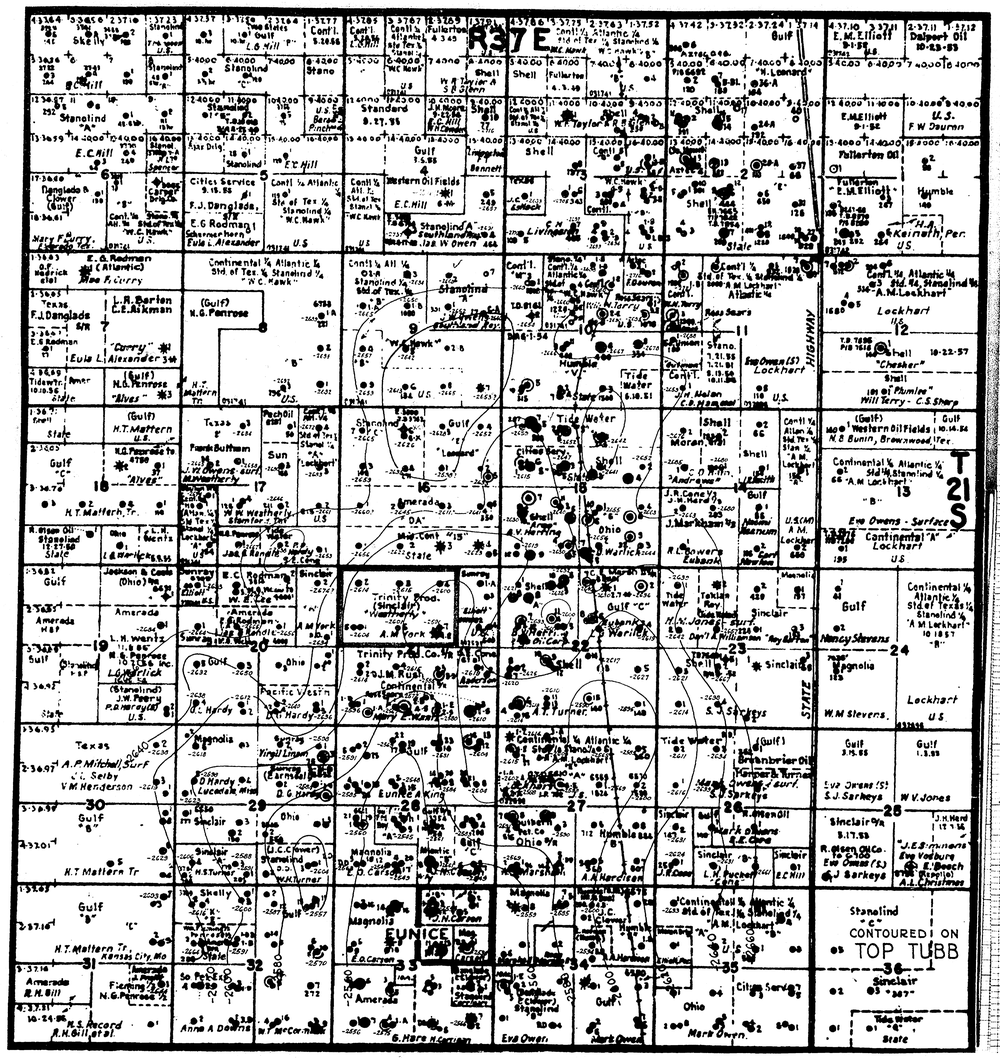
455



WEST ANDERSON RANCH UNIT
T15-16S, R31-32E, LEA, CHAVES & EDDY COUNTIES
SEISMIC STRUCTURE MAP

HORIZON: DEVONIAN
CONTOUR INTERVAL: 80 FEET
— UNIT OUTLINE

456



REPRODUCED BY
WEST TEXAS ELECTRICAL LOG SERVICE
1906 Commerce Street
Dallas 1, Texas

REFERENCE No. A 586-B

LANE RADIOACTIVITY LOG WELLS

COMPANY

Section or Well	COMPANY: TALBOTT DRLG. CO.
	WELL: TALBOTT FEE-B-1
	FIELD: EUNICE (BLINEBRY)
	COUNTY: LEA STATE: N.M.
	LOCATION:

LOG MEASURED FROM DRLG. BUSHING ELEVATION			
DRILLING MEASURED FROM: D. BUSHING ELEVATION			
SECTION 21 S- 37 E- 21 S.L.M. - 4 SOUTH			
PERMANENT DATUM: D. BUSHING ELEVATION			

RUN NUMBER			
TYPE OF LOG	DENSITY	GAMMA RAY	
DATE	10-22-57	10-22-57	
DRILLER'S DEPTH - P.B.	6700	6700	
LOGGER'S DEPTH	6700	6700	
CASING DEPTH	1200	1200	
MAXIMUM TEMPERATURE	115°	115°	
FULL OF (METHANE-GAS-ETC.)	Gas	Gas	
DENSITY/VISCOSITY	9.2/34		
PH/FLUID LOSS	10.5/6.4		
SOURCE OF SAMPLE	Flowline		
RM @ MEAS. TEMP.	.52@82		
RMF @ MEAS. TEMP.	.42@82		
RMC @ MEAS. TEMP.	.63@82		
SOURCE: RMF/RMC	Measured		
RM @ BHT	.26@150		
TIME SINCE CIRC.	12 Hrs.		
TIME ON BOTTOM	10:30 P.M.		
MAX. REC. TEMP.	150°		
EQUIP. NO. & LOCATION	1504 Hobbs	1504 Hobbs	
RECORDED BY	Hall	Hall	
WITNESSED BY	Talbott	Talbott	

CASING RECORD

RUN NO.	SIZE-WT.-GR.	INTERVAL	SURFACE-CALC. (FT.)
1	8 5/8	0-1200	

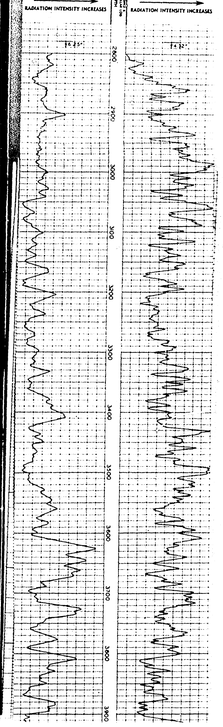
OPEN HOLE RECORD

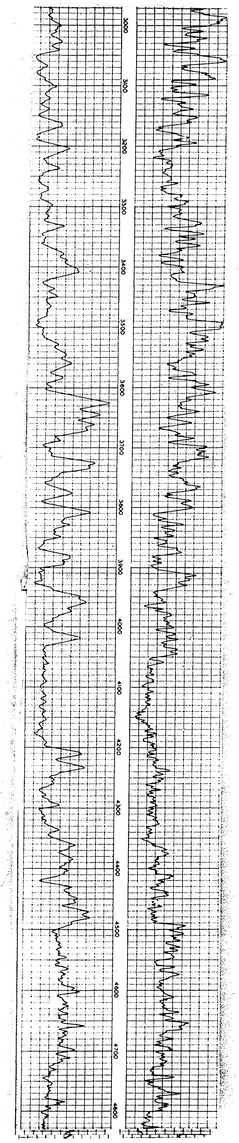
BIT SIZE	INTERVAL	
	FROM	TO
7 7/8	1200	6700

REMARKS OR OTHER DATA
* ELEVATIONS AND DEPTHS ARE APPROX.

GAMMA RAY — RADIATION INTENSITY INCREASES →

NEUTRON — RADIATION INTENSITY INCREASES →





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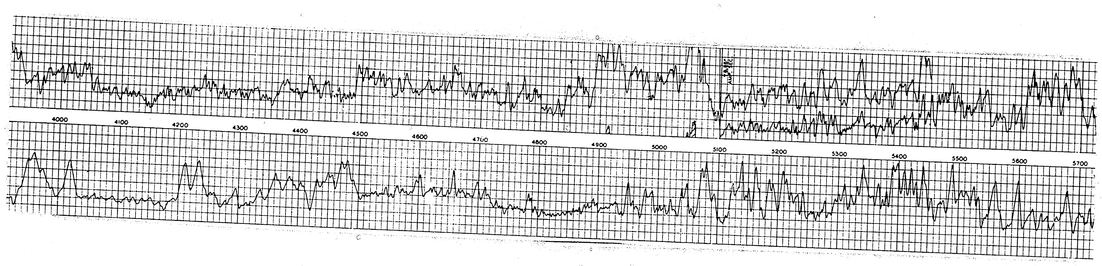
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4100
4200
4300
4400
4500
4600
4700
4800
4900
5000
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5200
5300
5400
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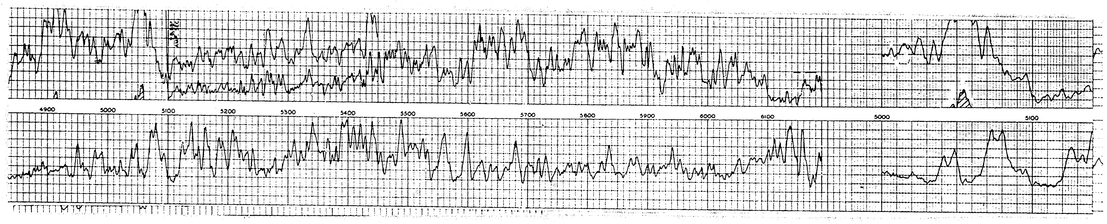
5600
5700

458


4900
5000
5100
5200
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5600
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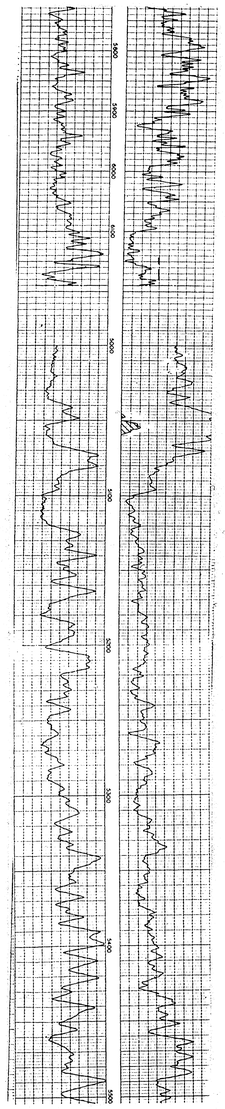
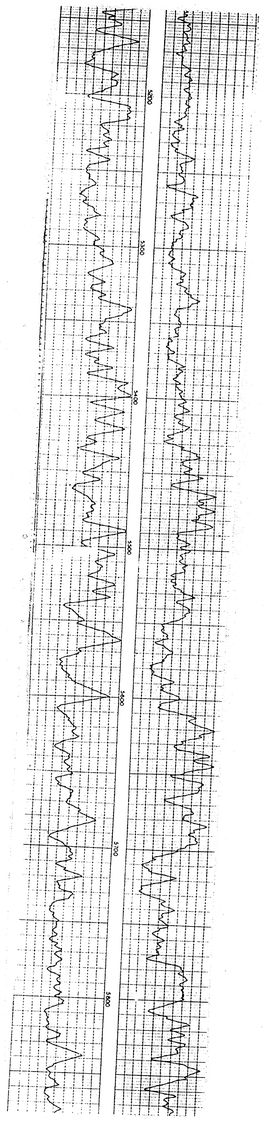
5900
6000
6100
5000
5100

460





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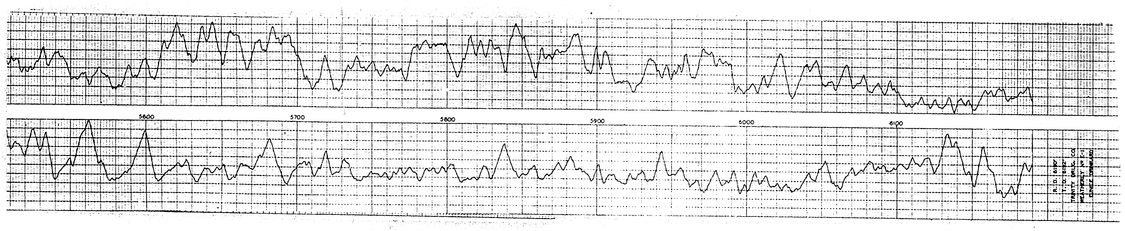

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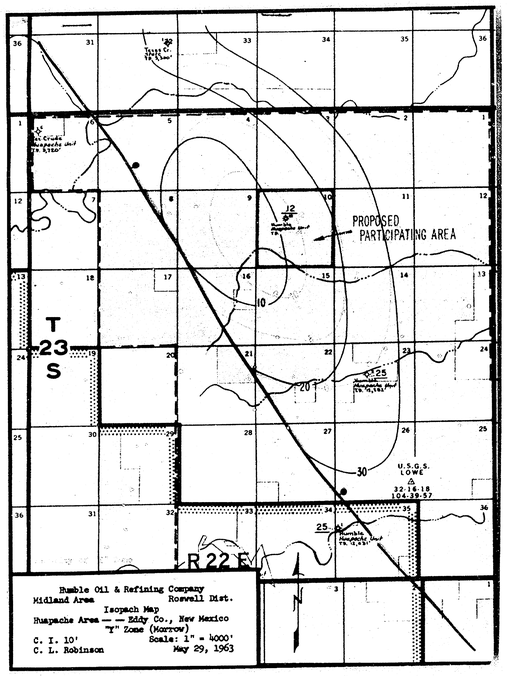
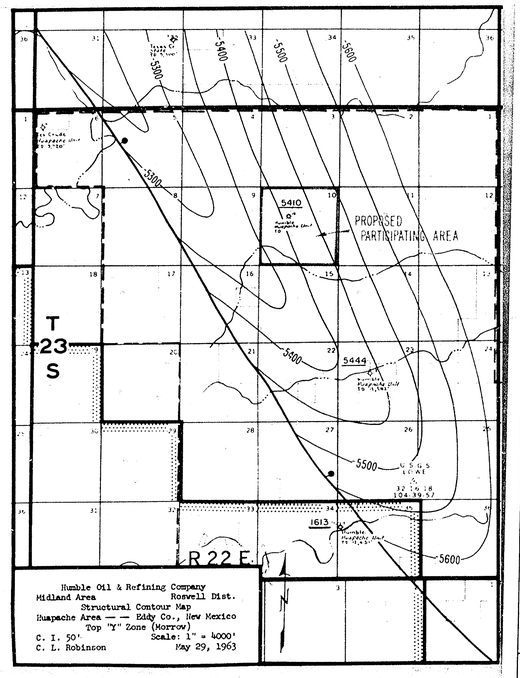
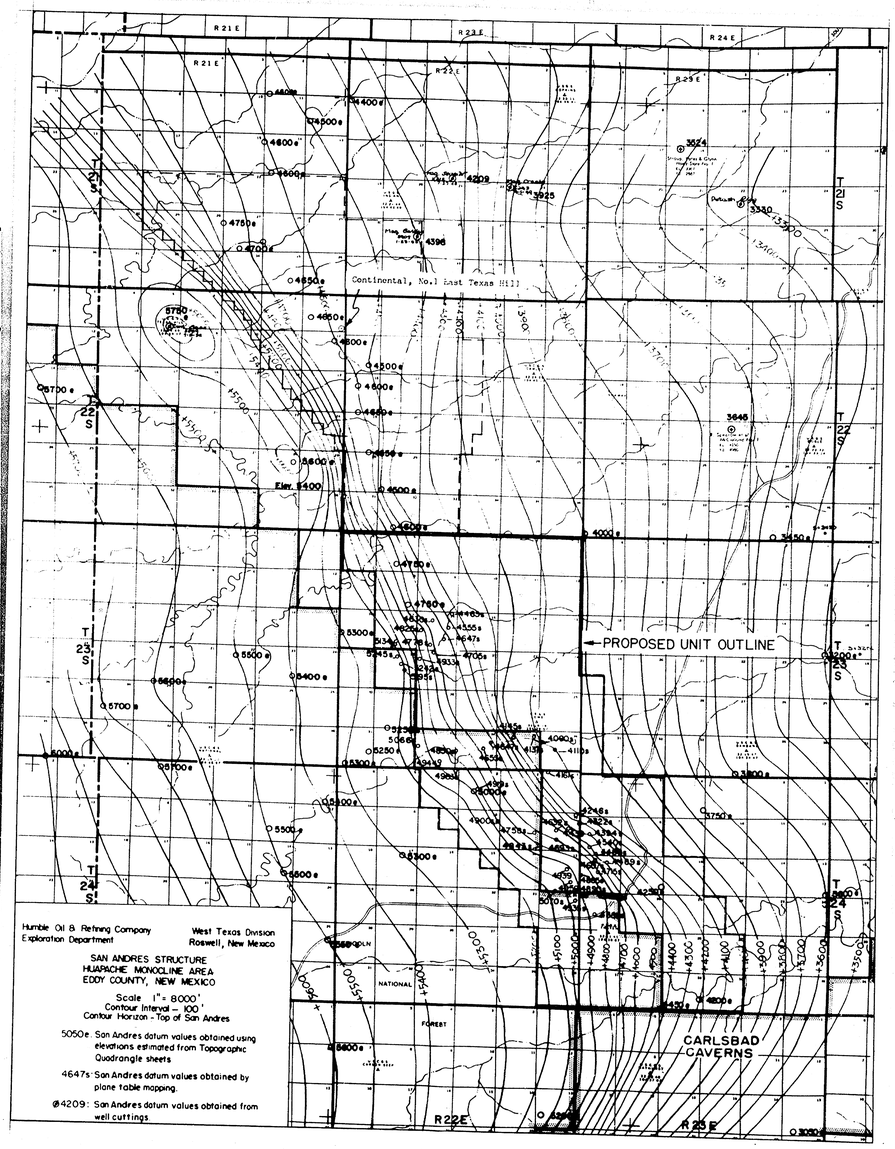

PROPOSED
PARTICIPATING AREA
T
23
S
R22E
U.S.G.S.
LOWE
32-16-18
104-39-57
Humble Oil & Refining Company
Midland Area Roswell Dist.
Isopach Map
Huapache Area — — Eddy Co., New Mexico
"Y" Zone (Morrow)
C. I. 10' Scale: 1" = 4000'
C. L. Robinson May 29, 1963


PROPOSED
PARTICIPATING AREA
T
23
S
R22E
U.S.G.S.
LOWE
32-16-18
104-39-57
Humble Oil & Refining Company
Midland Area Roswell Dist.
Structural Contour Map
Huapache Area — — Eddy Co., New Mexico
Top "Y" Zone (Morrow)
C. I. 50' Scale: 1" = 4000'
C. L. Robinson May 29, 1963

463


R21E
R22E
R23E
R24E
R25E
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21
S
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22
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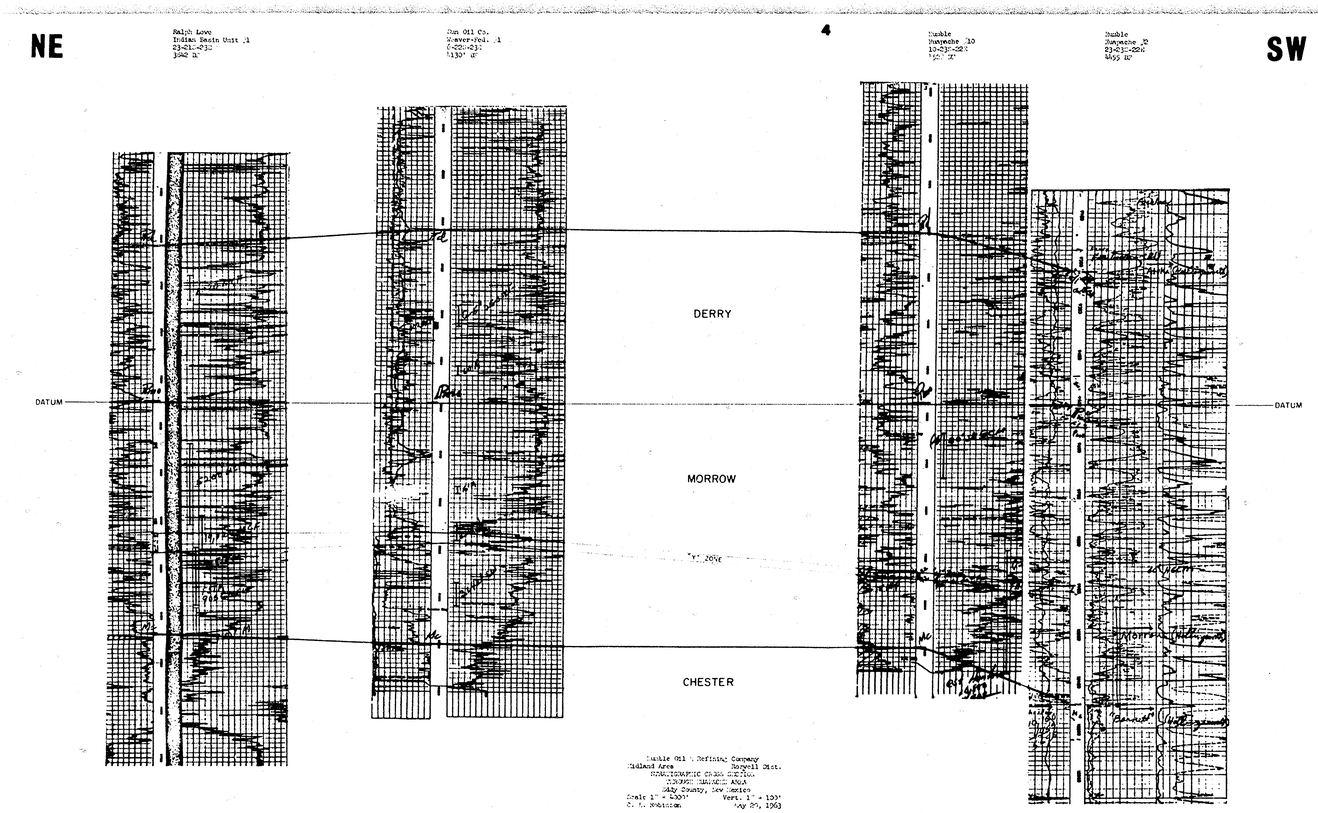
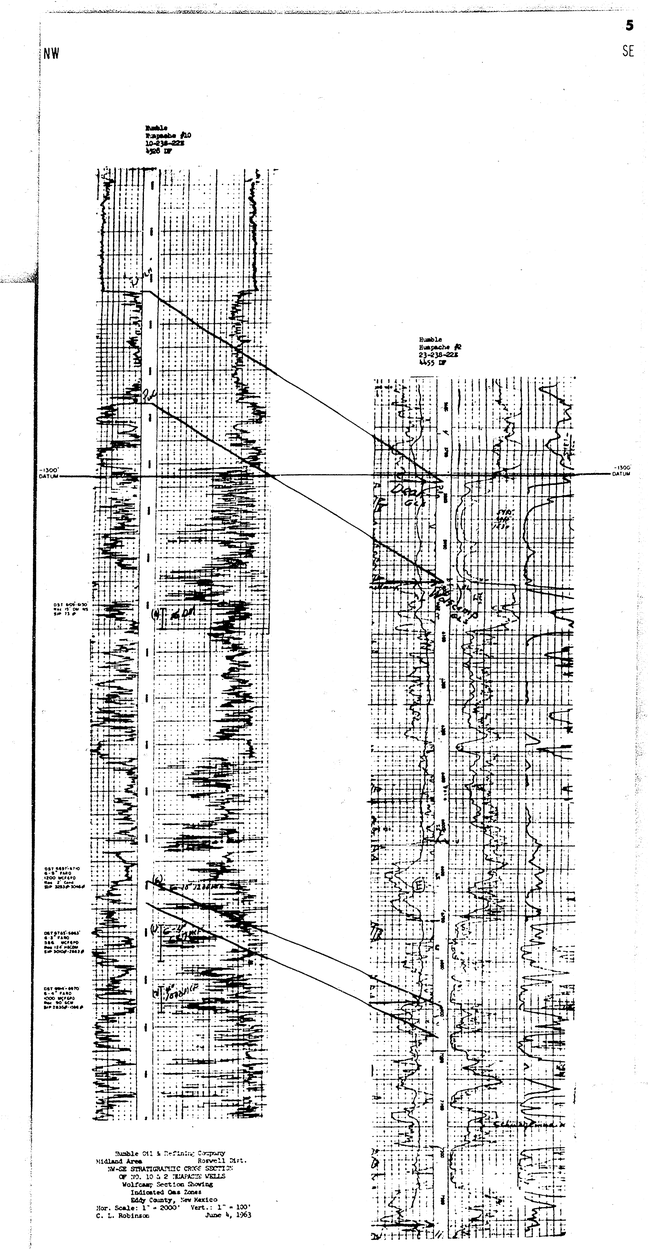
24
S
Continental, No.1 East Texas Hill
PROPOSED UNIT OUTLINE
CARLSBAD
CAVERNS
NATIONAL
FOREST
Humble Oil & Refining Company
Exploration Department
West Texas Division
Roswell, New Mexico
SAN ANDRES STRUCTURE
HUAPACHE MONOCLINE AREA
EDDY COUNTY, NEW MEXICO
Scale 1"= 8000'
Contour Interval — 100'
Contour Horizon - Top of San Andres
5050e: San Andres datum values obtained using elevations estimated from Topographic Quadrangle sheets
4647s: San Andres datum values obtained by plane table mapping.
@4209: San Andres datum values obtained from well cuttings


NE
SW
4
Ralph Love
Indian Basin Unit #1
Sun Oil Co.
Weaver-Fed. #1
Humble
Humpache #10
Humble
Humpache #2
DATUM
DATUM
DERRY
MORROW
CHESTER
Humble Oil & Refining Company
Midland Area
Roswell Dist.
STRATIGRAPHIC CROSS SECTION
WOLFCAMP HUMPACHE AREA
Eddy County, New Mexico
Scale 1" = 4000'
Vert. 1" = 100'
C. L. Robinson
May 29, 1963


5
NW
SE
Humble
Humpache #10
Humble
Humpache #2
DATUM
DATUM
Humble Oil & Refining Company
Midland Area
Roswell Dist.
NW-SE STRATIGRAPHIC CROSS SECTION
OF NO. 10 & 2 HUMPACHE WELLS
Wolfcamp Section Showing
Indicated Gas Zones
Eddy County, New Mexico
Hor. Scale: 1" = 2000'
Vert.: 1" = 100'
C. L. Robinson
June 4, 1963

(5)

464

6

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Morrow Sand County Eddy

Initial Annual Special X Date of Test 5-18-63

Company Humble Oil & Refining Company Lease Huapache Unit Well No. 10

Unit Sec. 10 Twp. 23-S Rge. 22-E Purchaser None

Casing 5-1/2 Wt. I.D. Set at Perf. 9932 To 9942

Tubing 2-3/8OD Wt. 4.60 I.D. 1.995 Set at 9750 Perf. 9932 To 9942

Gas Pay: From 9932 To 9942 L 9937 xG 0.600 esbGL 9962 Bar.Press. 13.2

Producing Thru: Casing Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: Packer 9750 Reservoir Temp. 189

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps Flange

No.	Flow Data (Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Tubing Data Press. psig	Tubing Data Temp. °F.	Casing Data Press. psig	Casing Data Temp. °F.	Duration of Flow Hr.
SI						2654	78	PKR		
1.	3.00	1.500	555	7.5	122	2775	75			3.5
2.	3.00	1.500	653	11	101	2555	66			3.5
3.	3.00	2.000	660	16	92	2272	67			5.0
4.	3.00	2.000	686	21	110	1834	68			3.0
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F_t	Gravity Factor F_g	Compress. Factor F_{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.36	46.27	568.2	.9452	1.000	1.031	954
2.	12.36	143.71	666.2	.9310	1.000	1.012	2507
3.	25.42	101.79	673.2	.9705	1.000	1.006	2623
4.	25.42	121.17	699.2	.9531	1.000	1.004	3119
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio 0.11 cf/bbl.
Gravity of Liquid Hydrocarbons 1.41 deg.
P_c 9,036 $(1-e^{-s})$ 0.336

Specific Gravity Separator Gas 0.600est
Specific Gravity Flowing Fluid 0.61
P_c 2667.2 P_d 8220.8

No.	P_w P_t (psia)	P_t^2	P_c^2	$(P_cQ)^2$	$(P_cQ)^2$ $(1-e^{-s})$	P_w^2	$P_c^2-P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.	2708.2	7334	7.082	87.48	29.41	7880.7	849.3	2911.5	97.4
2.	2568.2	6596	90.438	129.83	43.65	6597.7	1283.3	2565.9	90.3
3.	2585.2	6682	28.866	831.13	279.4	6683.9	274.8	2614.6	91.6
4.	2672.2	7139	32.938	1085.44	365.12	7277.4	1113.4	2913.7	97.8
5.									

Absolute Potential: 2,700 MCFPD; n .601

COMPANY Humble Oil & Refining Company
ADDRESS Box 2167, Hobbs, New Mexico
AGENT and TITLE
WITNESSED Richard Turner
COMPANY Tom Hudson Company, Inc., Box 181, Odessa, Texas

REMARKS

Orig & 2 ccs N. M. O. C. C., Artesia, N. M.

/mcb

Box 181
ODESSA, TEXAS

INDIVIDUAL WELL DATA SHEET

Company Humble Oil & Refining Company Lease Huapache Unit Well No. 10
Field Wildcat County Eddy State New Mexico
Test Date 5-18-63 Time Status of Well Shut In Shut In

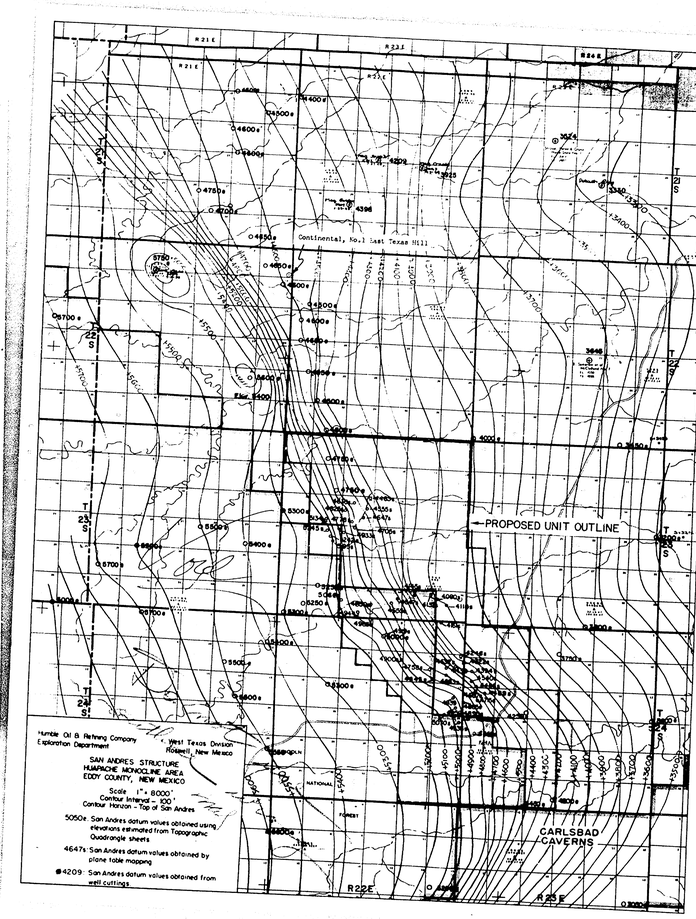
GRAPHIC ANALYSIS

Depth Feet	Pressure Lbs. sq. in.	*Gradient Lbs./Ft.
0	2634	
2000	2999	.073
4000	3152	.077
6000	3302	.075
8000	3465	.072
9300	3534	.068
9500	3545	.070
R D 9700	3562	.070
Mid Perf 9937	3579	(.070)

Elev. G.L.
Pressure Datum
Top of Pay
Tubing 2 3/8 Depth 9750
B.H.C. Packer
Casing Depth
Perf 9932-42
Total Depth
Formation
Casing Press.
Tubing Press. 2554
Top of Fluid Dbse
Top of Water Dbse
Bbls./Mscf. in 72 Hours
Temp. @ 9700 164 °F
Last Test Date 5-14-63
Press. Last Test 3665
B.H.P. Change -26
Gauge Used
Instrument 11 Make/ft. 5300
Number 18644-M MFG
Calibration No 05 @ 70 °F
Run By Turner
Calculated By Turner

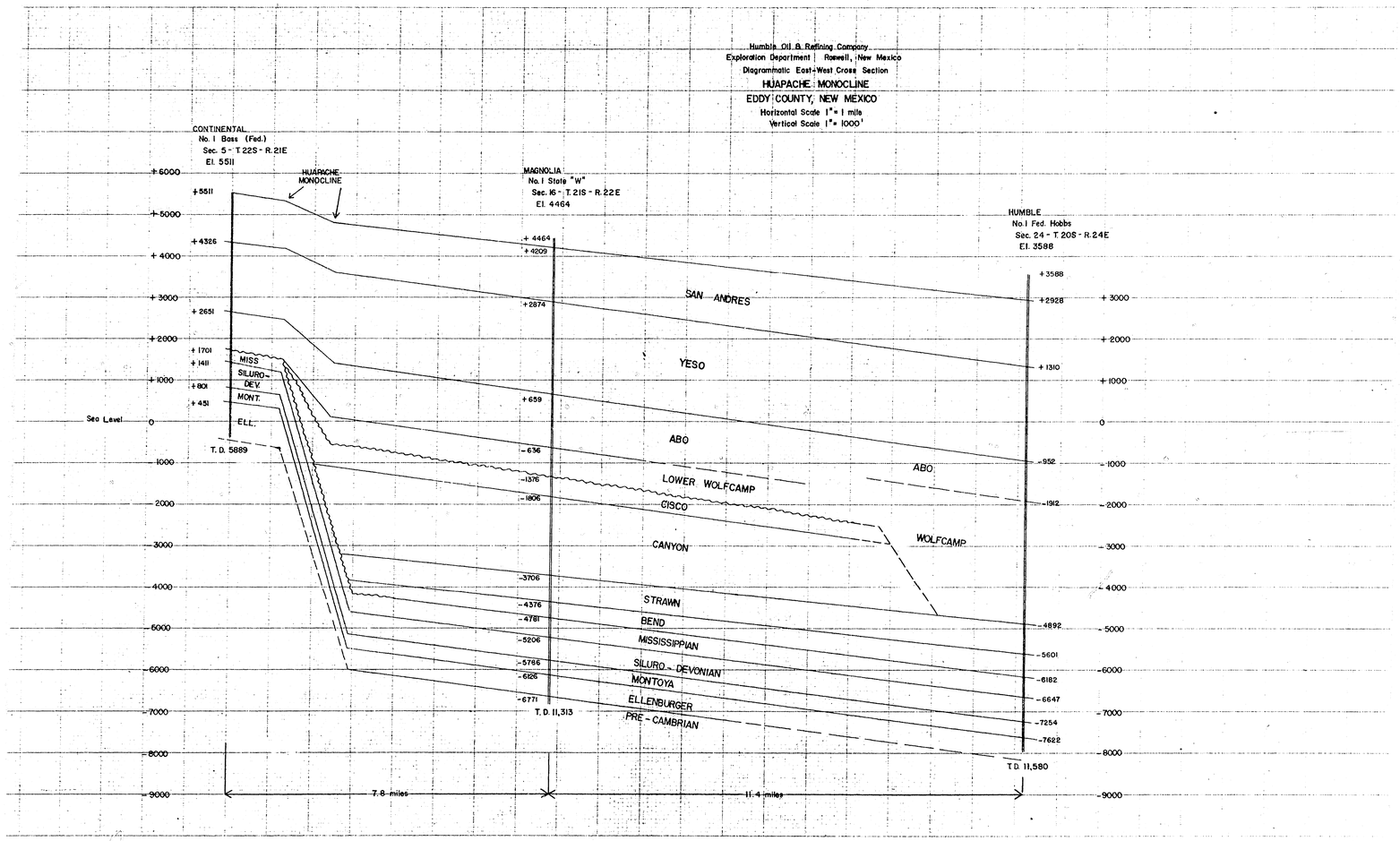
Q = MCFD
AP = 5,700 MCFD
n = .601
θ = 59°

COMPANY Humble Oil & Refining Company
WELL Huapache # 10
LOCATION Sec. 10, Twp. 23-S, Rge. 22E
COUNTY Eddy
DATE 5-18-63



465

Humble Oil & Refining Company
Exploration Department | Roswell, New Mexico
Diagrammatic East-West Cross Section
HUAPACHE MONOCLINE
EDDY COUNTY, NEW MEXICO
Horizontal Scale 1" = 1 mile
Vertical Scale 1" = 1000'



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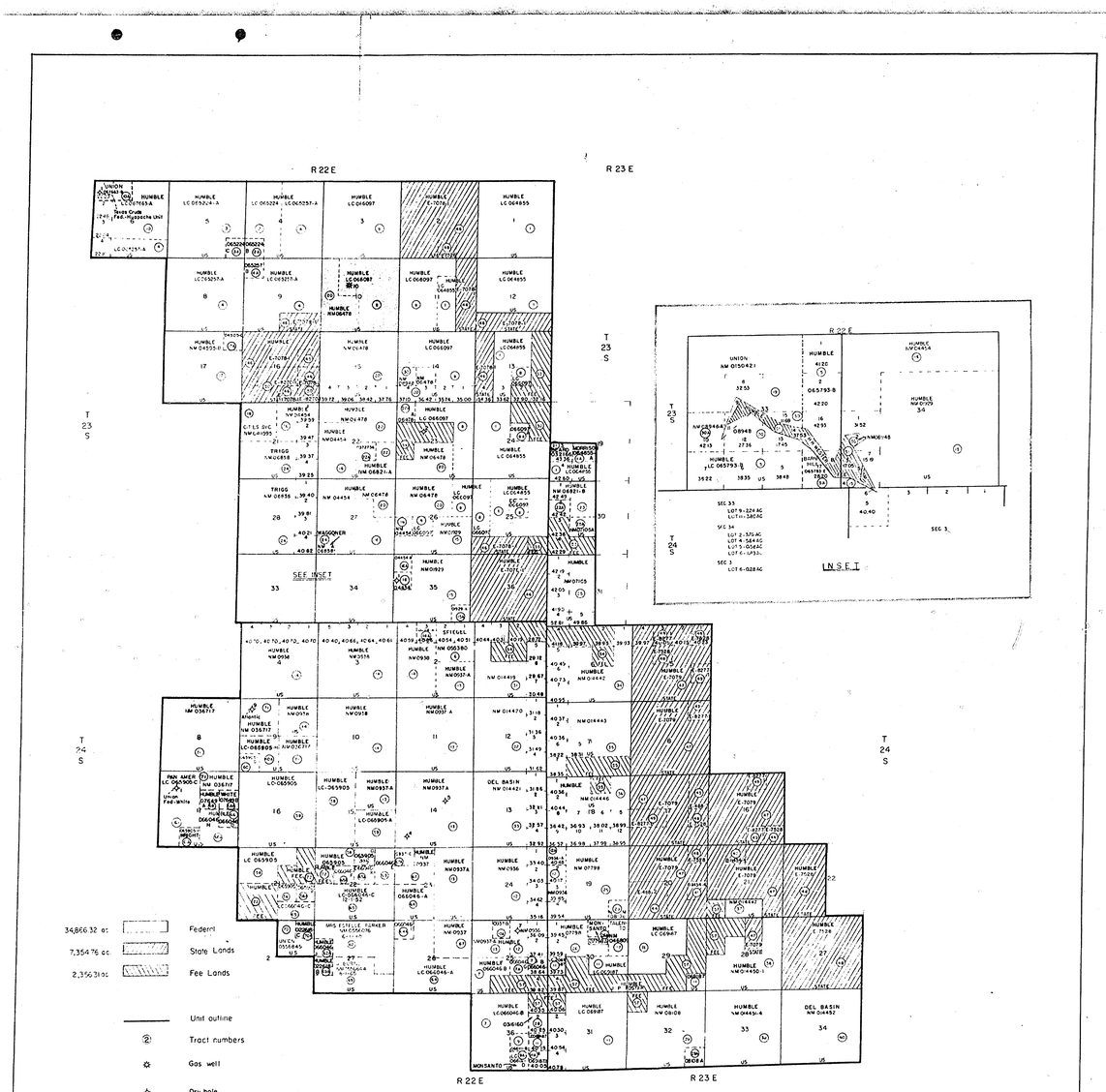


EXHIBIT A
OWNERSHIP PLAT
HUAPACHE UNIT AREA
Eddy County, New Mexico

Revised 9-1-65

467

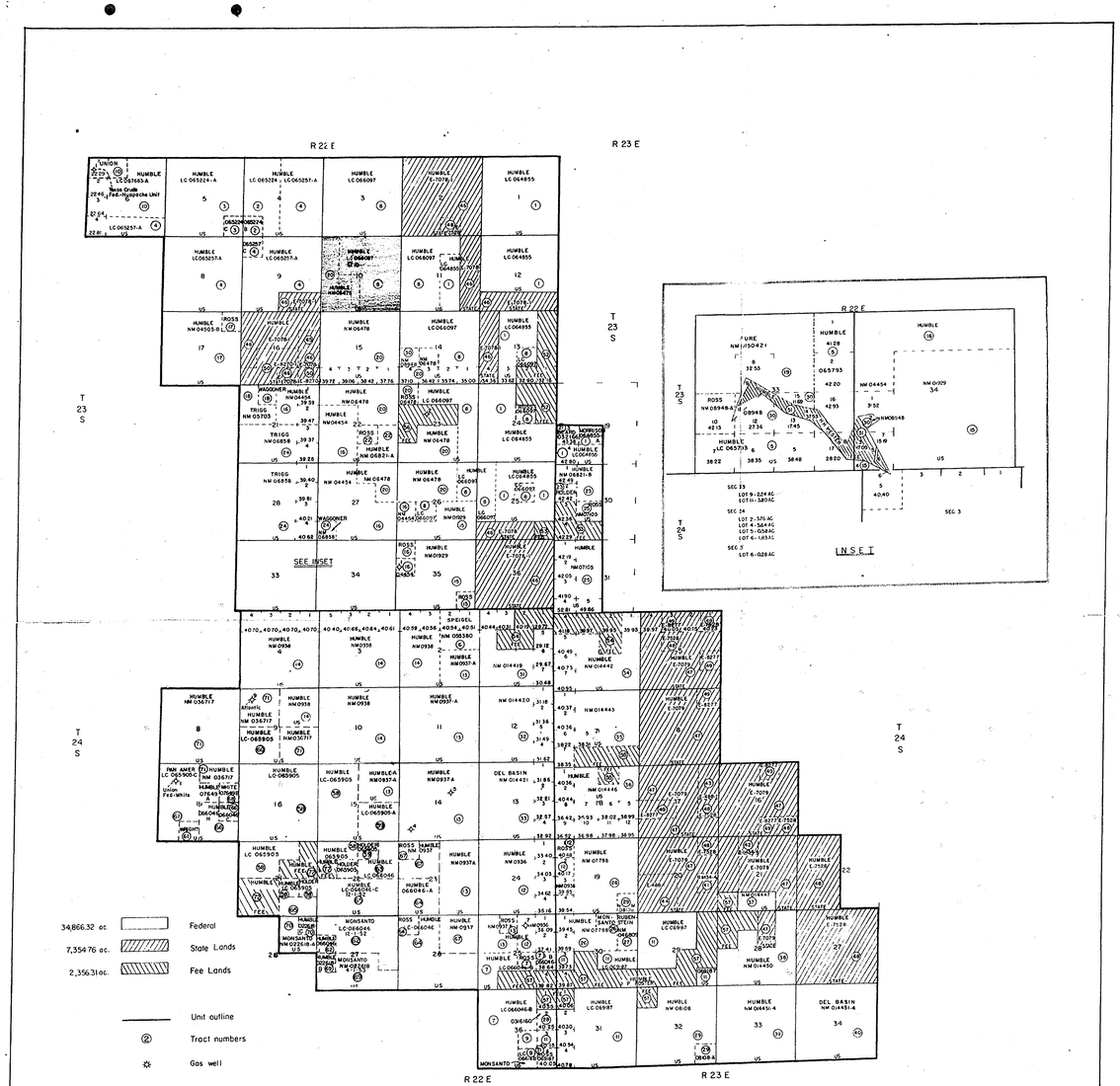


EXHIBIT A
OWNERSHIP PLAT
HUAPACHE UNIT AREA
Eddy County, New Mexico

468

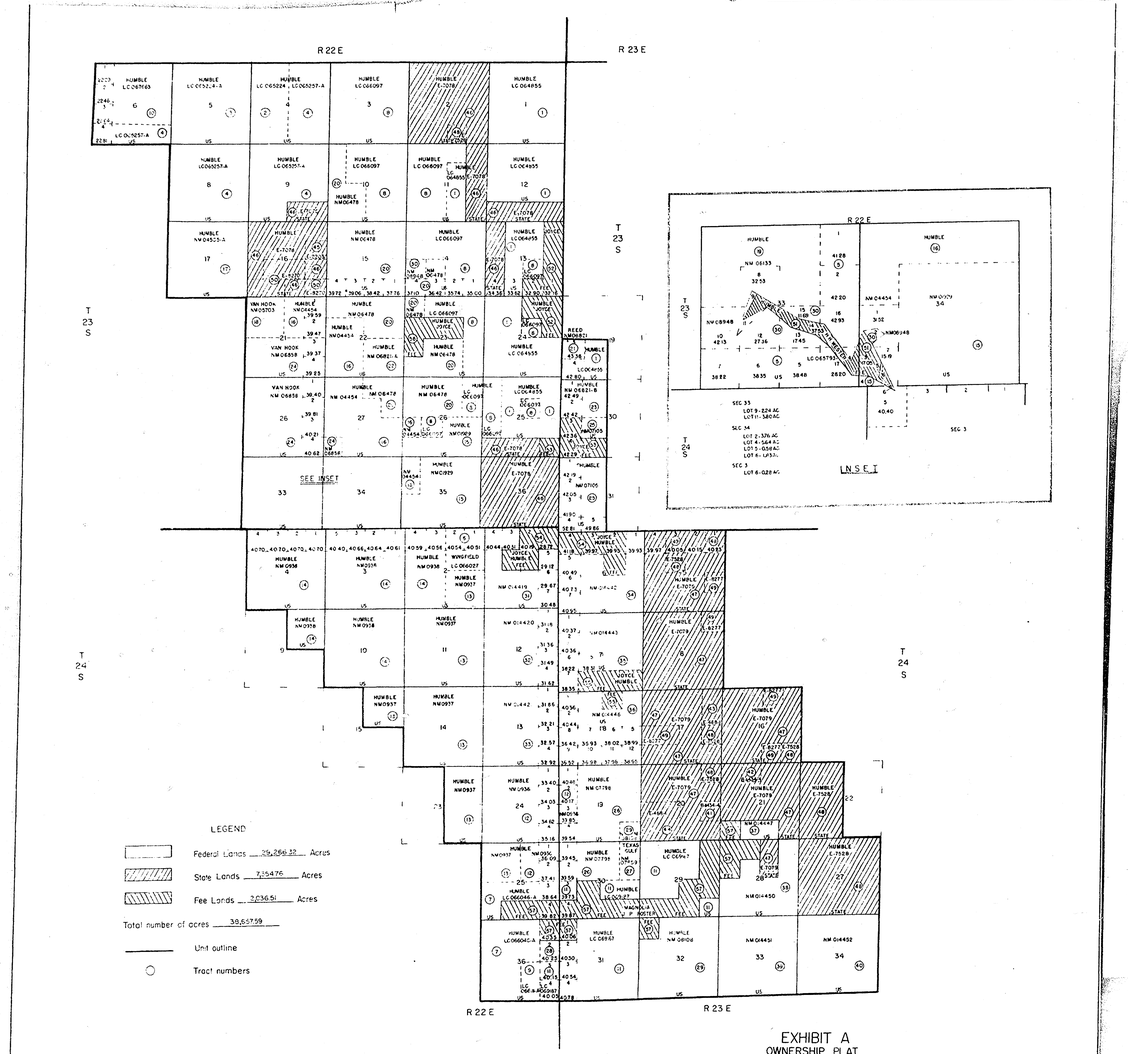
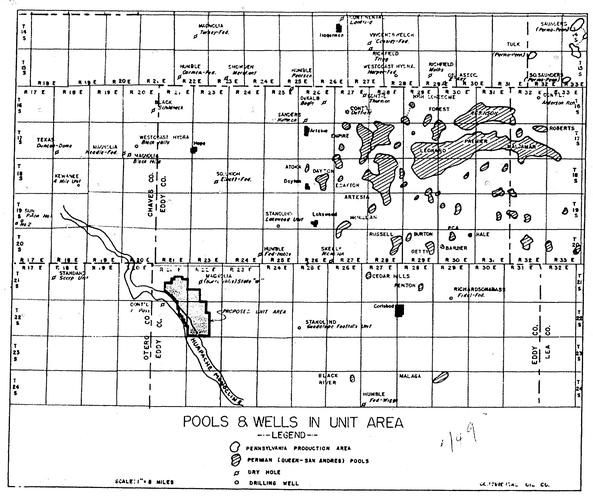


EXHIBIT A
OWNERSHIP PLAT
HUAPACHE UNIT AREA
Eddy County, New Mexico



469

LANE RADIOACTIVITY LOG WELLS
COMPANY

FILE NO.

Location of Well	
COMPANY:	CHAMM OIL CO.
WELL:	SUPERIOR STATE NO. 1
FIELD:	EUNICE
COUNTY:	LEA
STATE:	NEW MEX.
LOCATION:	N. E. S. W. 12-21-35

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO
EXHIBIT NO. 13
CASE 753

COMPANY: CHAMM OIL CO.
WELL: SUPERIOR STATE NO. 1
FIELD: EUNICE
COUNTY: LEA
LOCATION: N. E. S. W. 12-21-35
STATE: NEW MEX.

LOG MEAS. FROM	TUBING HEAD FLANGE	ELEV. 3578'
DRLG. MEAS. FROM	TUBING HEAD FLANGE	ELEV. 3578'
PERM. DATUM	TUBING HEAD FLANGE	ELEV. 3578'

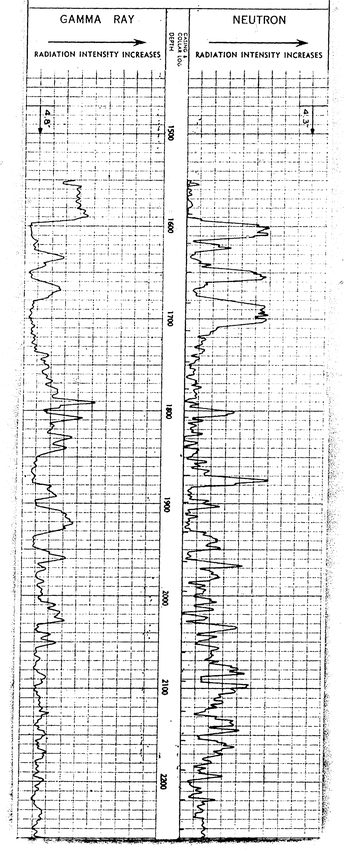
TYPE OF LOG	GAMMA RAY	NEUTRON
RUN NO.	1-NW	1-NW
DATE	7-8-54	7-8-54
TOTAL DEPTH (DRILLER) (RAGE)	3885'	3885'
EFFECTIVE DEPTH (DRILLER)	3885'	3885'
TOP OF LOGGED INTERVAL	1550'	1550'
BOTTOM OF LOGGED INTERVAL	3806'	3820'
TYPE OF FLUID IN HOLE	OIL	OIL
FLUID LEVEL	FULL	FULL
MAXIMUM RECORDED TEMP.		60CM
NEUTRON SOURCE STRENGTH & TYPE		8.25
SOURCE SPACING — IN.		9.1"
LENGTH OF MEASURING DEVICE — IN.	36"	3 5/8
O.D. OF INSTRUMENT — IN.	3 5/8	3 5/8
TIME CONSTANT — SECONDS	5.0	4.0
LOGGING SPEED FT. MIN.	20	20
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	274	275
RECORDED BY	HURST	HURST
WITNESSED BY	SHELDON	SHELDON

RECORD IN ITS ENTIRETY

CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM WELL RECORD	FROM R-A LOG
1	8 3/4"	7"		SURF TO 3700'	SURF TO 3692'
1	6 1/4"			3700' TO 3885'	3692' TO 3822'
				TO	TO
				TO	TO
				TO	TO

REMARKS OR OTHER DATA



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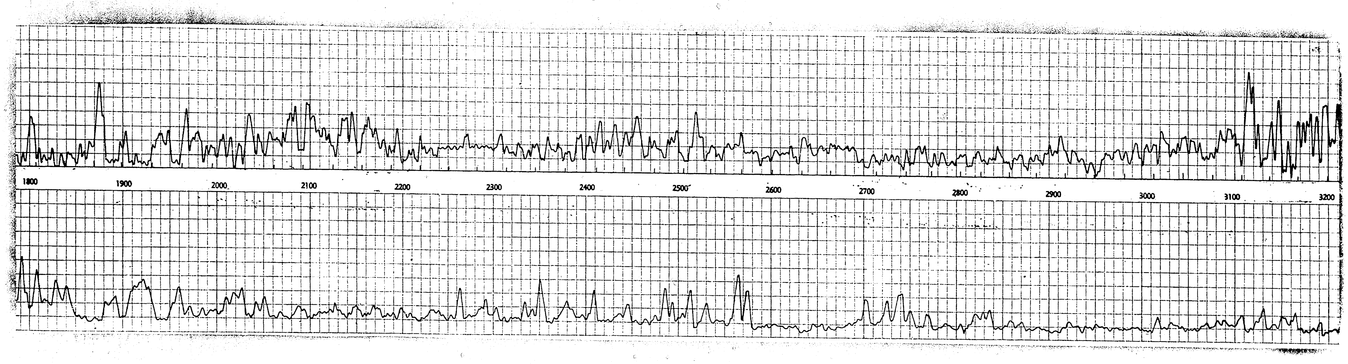
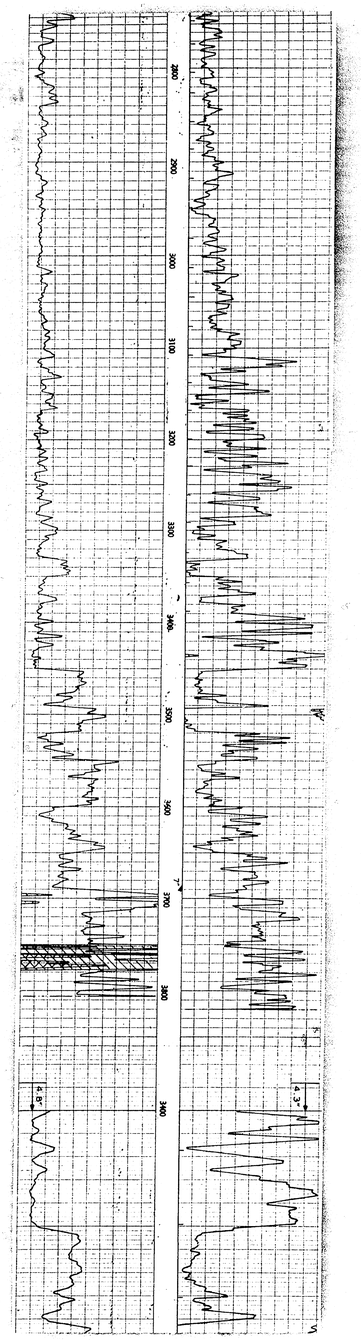
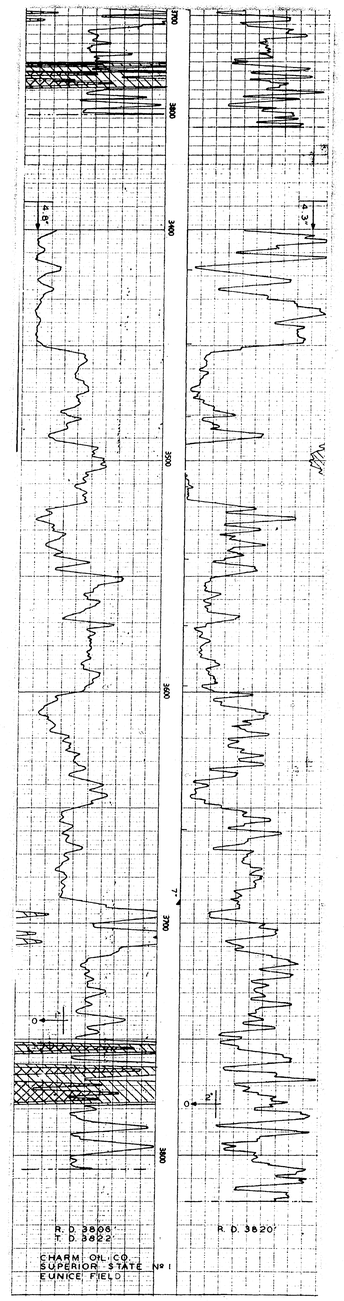

1800
1900
2000
2100
2200
2300
2400
2500
2600
2700
2800
2900
3000
3100
3200

471


2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4.3'
4.5'

472

473



3700
3800
3400
3500
3600
3700
3800
4.8"
4.3"
R. D. 3806'
T. D. 3822'
R. D. 3820'
CHARM OIL CO.
SUPERIOR STATE Nº 1
EUNICE FIELD

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON TEXAS

MICROLOGGING®

COMPANY SUPERIOR OIL CO.
WELL STATE # 1-12
FIELD EUNICE
LOCATION SEC. 32-21S-35E
COUNTY LEA
STATE NEW MEXICO

Location of Well
990' f WL
1980' f SL
Sec. 32-21S-35E

ML-GRL
(ES)

Elevation: D.F. 3591
K.B. 3593
G.L. 3583

FILING No.

COUNTY Lea
FIELD or LOCATION Eunice
WELL State # 1-12
COMPANY Superior Oil Co.

RUN No.	1	2							
Date	6-29-54	7-3-54							
First Reading	4041	4208							
Last Reading	3300	4041							
Feet Measured	741	167							
Csg. Schlum.									
Csg. Driller	312	312							
Depth Reached	4044	4211							
Bottom Driller	4044	4211							
Depth Datum	ROB 10' Abv. GL								
Mud Not.	Salt Gel								
" Density	11	11							
" Viscosity	39	40							
" Resist.	.046@90 °F	.046@90 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	
" Res. RHT	.038@98 °F	.038@101 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	
" pH	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	
" Wtr. loss	2 cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	
Max. Temp. °F	98	101							
Bit Size	8 3/4"	8 3/4"							
Spcs:—									
Micrainverse	13"	13"							
Micronormal	2	24"							
Opr. Rig Time	1½ Hrs.	1 Hr.							
Truck No.	1762-Hobbs-1758								
Recorded By	Reinders	Kellenberger							
Witness By	Collins	Spears							

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON TEXAS

Electrical Log

COMPANY SUPERIOR OIL CO.
WELL STATE # 1-12
FIELD EUNICE
LOCATION SEC. 32-21S-35E
COUNTY LEA
STATE NEW MEXICO

Location of Well
990' f WL
1980' f SL
Sec. 32-21S-35E

ES-GRL
(ML)

Elevation: D.F. 3591
K.B. 3593
G.L. 3583

FILING No.

COUNTY Lea
FIELD or LOCATION Eunice
WELL State # 1-12
COMPANY Superior Oil Co.

RUN No.	1	2							
Date	6-29-54	7-3-54							
First Reading	4041	4208							
Last Reading	313	4041							
Feet Measured	3728	167							
Csg. Schlum.	313	313							
Csg. Driller	312	312							
Depth Reached	4044	4211							
Bottom Driller	4044	4211							
Depth Datum	ROB 10' Abv. GL								
Mud Not.	Salt Gel								
" Density	11	11							
" Viscosity	39	40							
" Resist.	.046@90 °F	.046@90 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	
" Res. BHT	.038@98 °F	.038@101 °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	
" pH	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	@ °F	
" Wtr. loss	2.9 cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	cc/30 min.	
Max. Temp. °F	98	101							
Bit Size	8 3/4"	8 3/4"							
Spcs:—AM	19'	19'							
" A	32' LS	32' LS							
" AO	19'	19'							
Opr. Rig Time	1 Hr.	1 Hr.							
Truck No.	1762-Hobbs-1758								
Recorded By	Reinders	Kellenberger							
Witness By	Collins	Spears							

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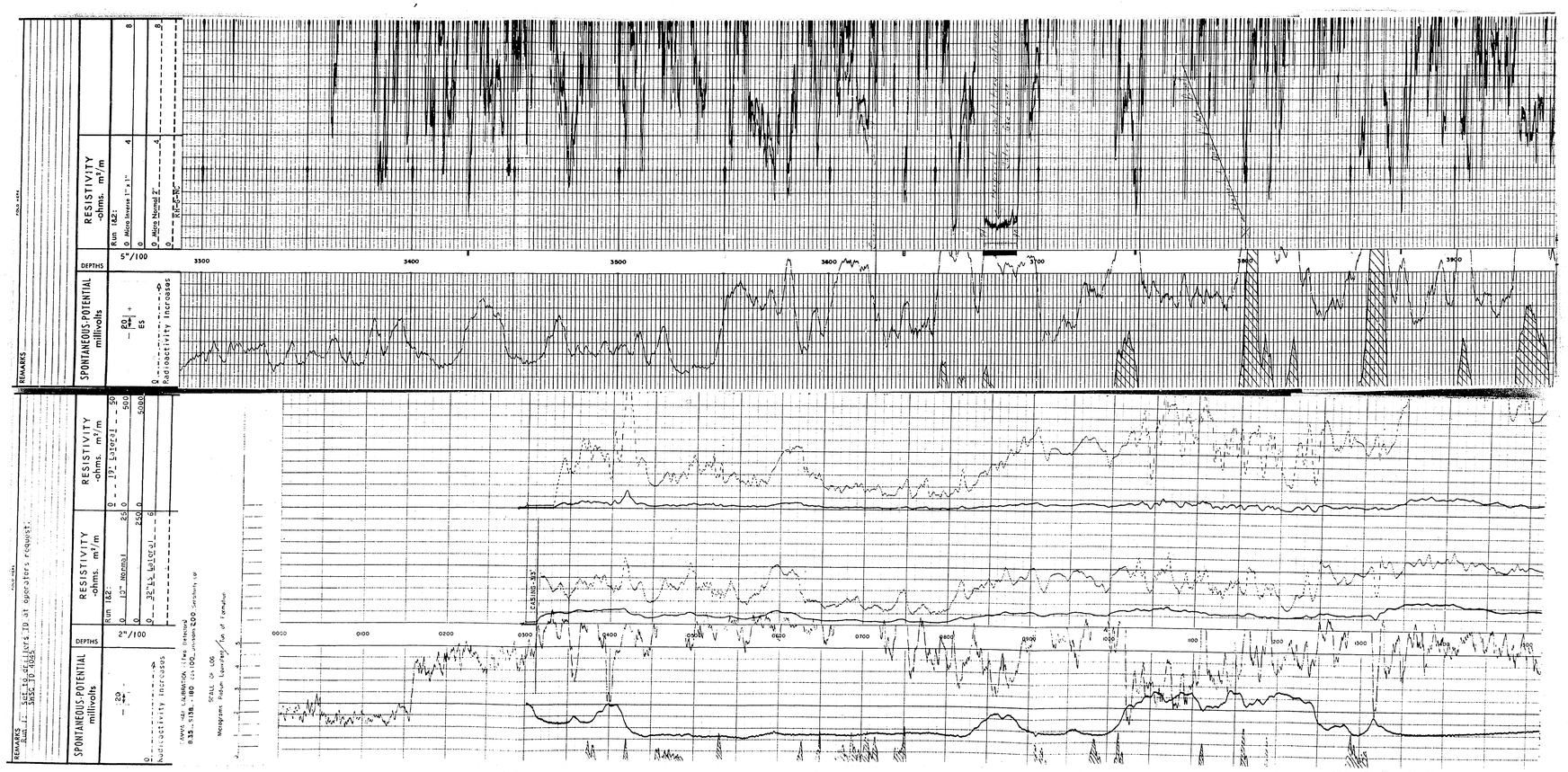
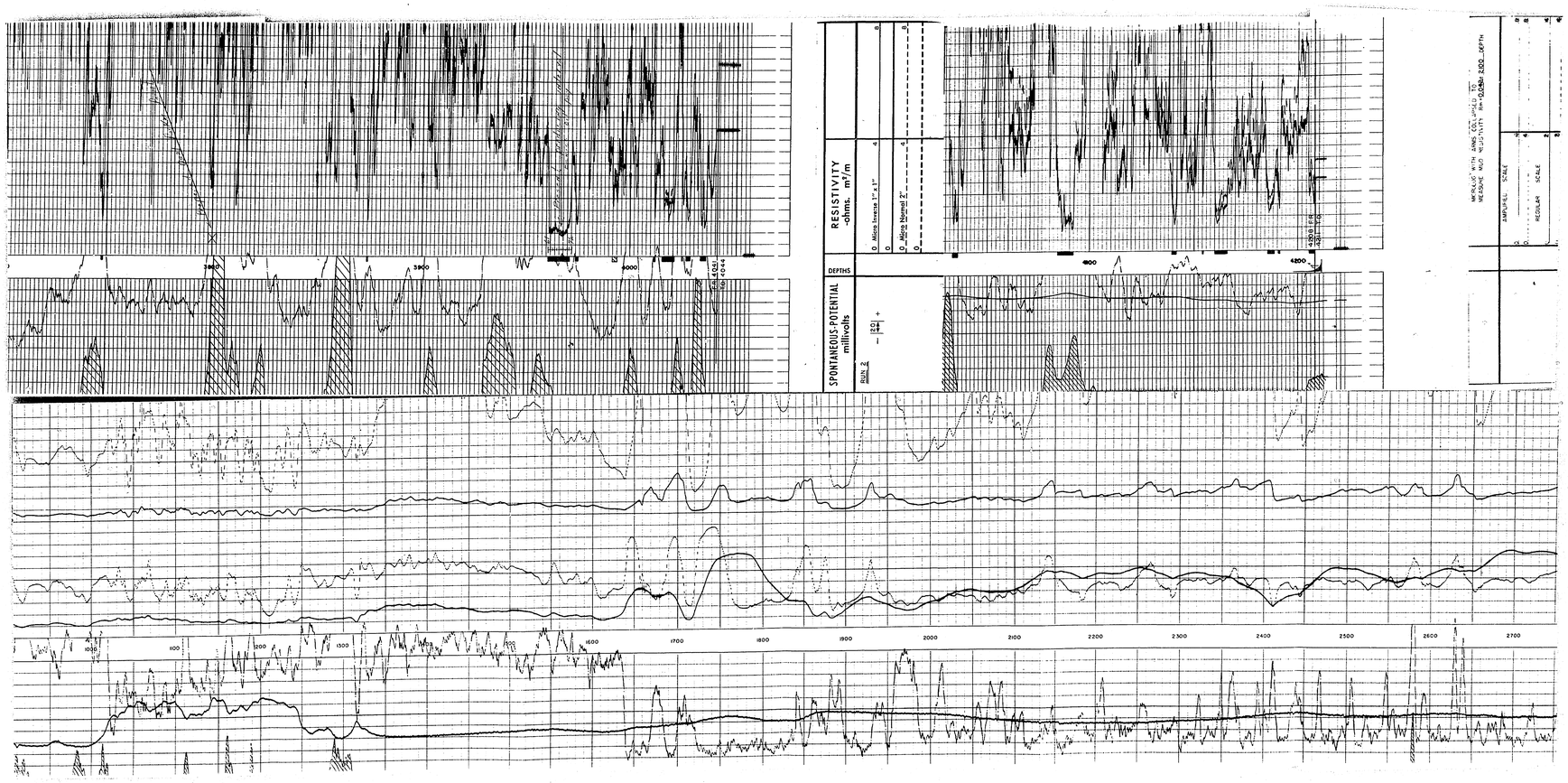

REMARKS
SPONTANEOUS-POTENTIAL millivolts
DEPTHS
RESISTIVITY -ohms. m²/m
Run 1&2:
0 Micro Inverse 1" x 1"
0 Micro Normal 2"
0 R1-G-N1
5"/100
3300
3400
3500
3600
3700
3800
3900
Radioactivity Increases
Run 1&2:
0 19" Lateral
0 32" Lateral
2"/100
0 12" Normal
0 32" Lateral
Radioactivity Increases
CASING-303'
0000
0100
0200
0300
0400
0500
0600
0700
0800
0900
1000
1100
1200
1300
1400
1500


RESISTIVITY
-ohms. m²/m
Micro Inverse 1" x 1"
Micro Normal 2"
DEPTHS
SPONTANEOUS-POTENTIAL
millivolts
RUN 2
MICROLOG WITH ARMS COLLAPSED TO
MEASURE MUD RESISTIVITY Rm=0.05Ω 2100 DEPTH
AMPLIFIED SCALE
REGULAR SCALE

476

SCHLUMBERGER WELL SURVEYING CORPORATION

MicroLogging®

COUNTY LEA
FIELD or AREA EUNICE
WELL STATE # 1-12
COMPANY SUPERIOR OIL CO.

COMPANY SUPERIOR OIL CO.
WELL STATE # 1-12
FIELD EUNICE
LOCATION SEC. 32-21S-35E
COUNTY LEA
STATE NEW MEXICO

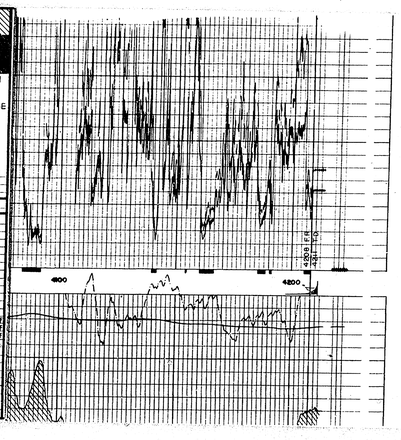
Location of Well
990' f WL
1980' f SL
Sec. 32-21S-35E

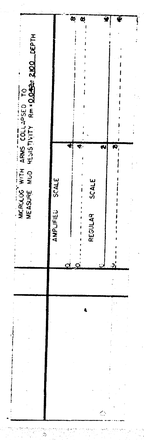
ML-GRL
(ES)

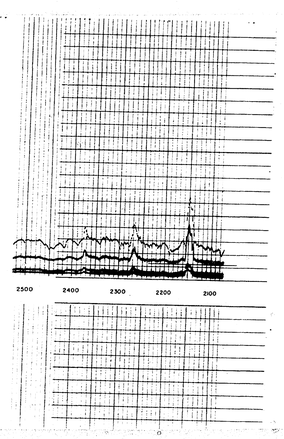
Elevation: D.F. 3591
K.B. 3593
or G.L. 3583

FILING No.

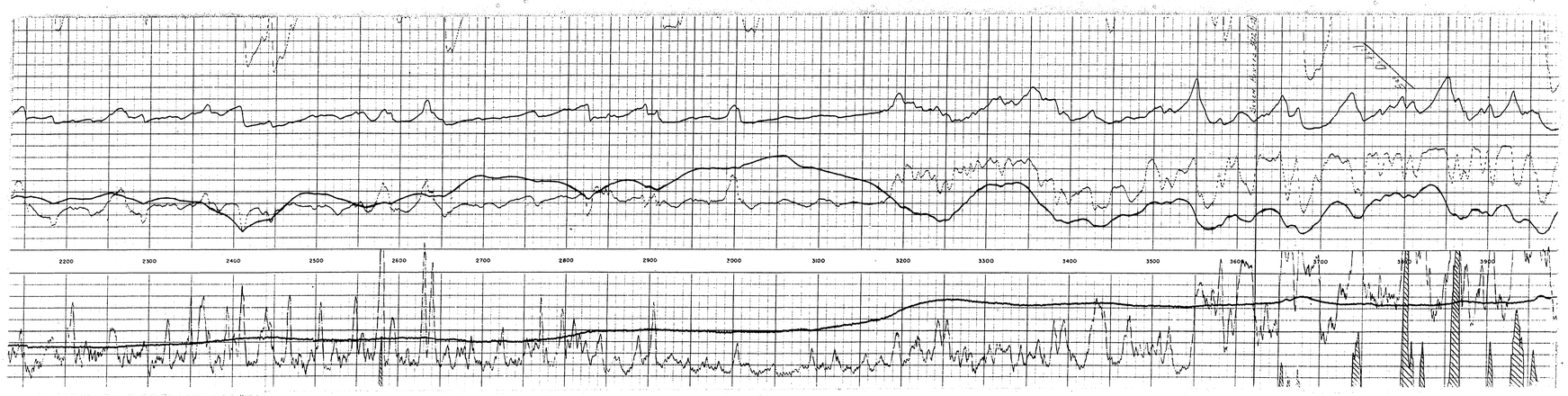
RUN No.	1	2								
Date	6-29-54	7-5-54								
First Reading	4041	4208								
Last Reading	3300	4041								
Feet Measured	741	167								
Csg. Schlum.										
Csg. Driller	312	312								
Depth Reached	4044	4211								
Bottom Driller	4044	4211								
Depth Datum	RDB 10' Abv. GL									
Mud Mat.	Salt Gel									
" Density	11	11								
" Viscosity	52	40								
" Resist.	.04@90 °F	.04@90 °F	@	°F	@	°F	@	°F	@	°F
" Res. BHT	.03@98 °F	.03@101 °F	@	°F	@	°F	@	°F	@	°F
" pH			@	°F	@	°F	@	°F	@	°F
" Wtr. Loss	2.9 CC 30 min.		CC 30 min.		CC 30 min.		CC 30 min.		CC 30 min.	
Max. Temp. °F	98	101								
Bit Size	R 7/8"	R 7/8"								
Spcgr.										
Microlaverse	3"	3"								
Micronorma	2	2"								
Opr. Rig Time	12 HRS	1 HR								
Truck No.	1762-Hobbs-1758									
Recorded By	Reinhard Kellenberger									
Witness By	Collins/ Spoars									







SUPERIOR OIL CO.
STATE # 1-12
EUNICE FIELD
LEA COUNTY, N.M.



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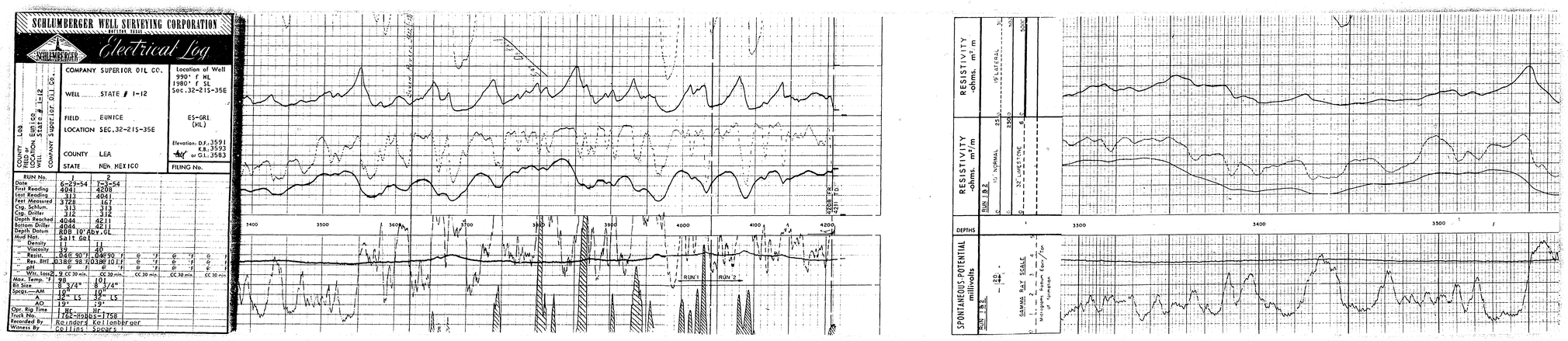
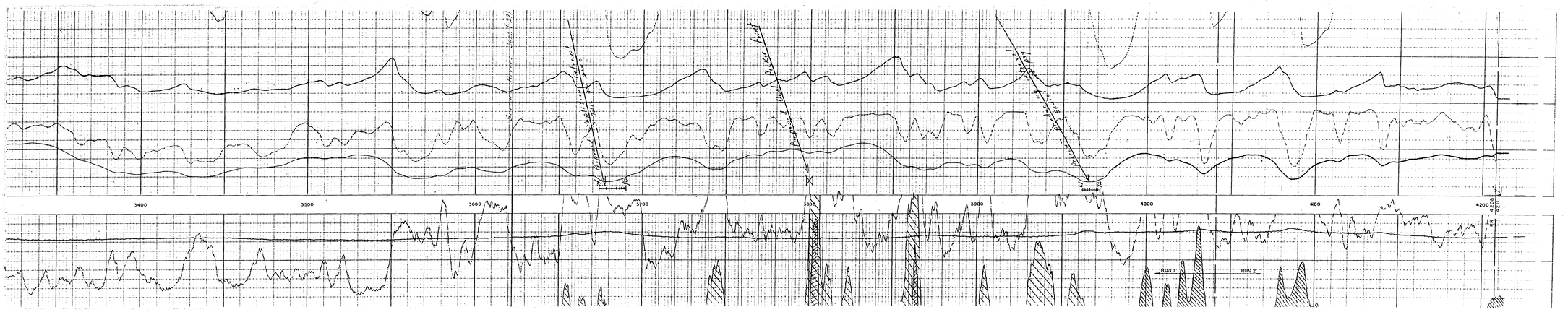
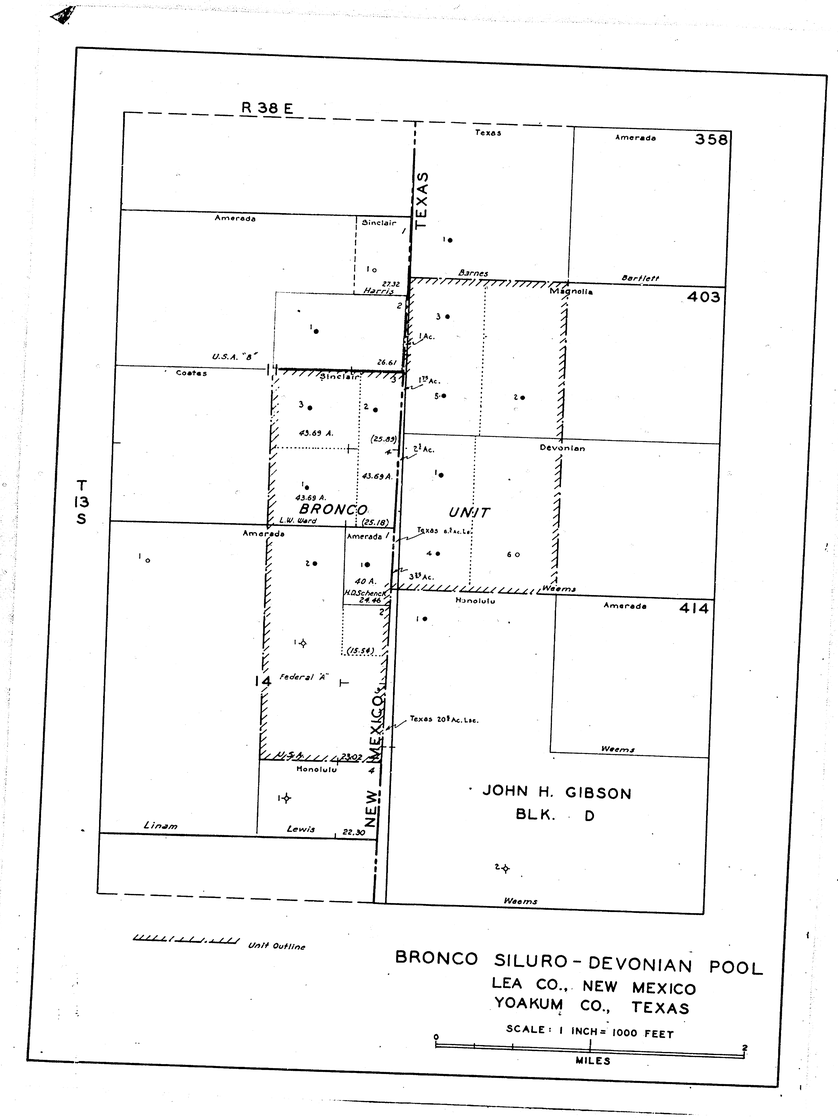

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS
Electrical Log
COMPANY SUPERIOR OIL CO.
WELL STATE # 1-12
FIELD EUNICE
LOCATION SEC.32-21S-35E
COUNTY LEA
STATE NEW MEXICO
Location of Well
990' f NL
1980' f SL
Sec.32-21S-35E
ES-GRL
(NL)
Elevation: D.F.: 3591
K.B.: 3593
or G.L.: 3583
FILING No.
COUNTY Lea
FIELD or LOCATION Eunice
WELL State # 1-12
COMPANY Superior Oil Co.
RUN No. 1 2
Date 6-29-54 7-3-54
First Reading 4041 4208
Last Reading 313 4041
Feet Measured 3728 167
Csg. Schlum. 313 313
Csg. Driller 312 312
Depth Reached 4044 4211
Bottom Driller 4044 4211
Depth Datum RDB 10' Abv. GL
Mud Nat. Salt Gel
Density 11 11
Viscosity 39 40
Resist. .046 90° F .046 90° F
Res. BHT .038 98° F .038 101° F
pH
Wtr. Loss 2.9 CC 30 min. CC 30 min. CC 30 min. CC 30 min. CC 30 min.
Max. Temp. °F 98 101
Bit Size 8 3/4" 8 3/4"
Spcgs.—AM 10" 10"
A 32" LS 32" LS
AO 19" 19"
Opr. Rig Time 1 Hr. Hr.
Truck No. 1762-Hobbs-1758
Recorded By Reinders Kellenberger
Witness By Collins Spears
3400
3500
3600
3700
3800
3900
4000
4100
4200
RUN 1
RUN 2
4208 TD
4211 TD
RESISTIVITY -ohms. m²/m
RUN 1 & 2
10" LATERAL
10" NORMAL
32" LIMESTONE
DEPTHS
3300
3400
3500
SPONTANEOUS-POTENTIAL millivolts
GAMMA RAY SCALE
Microgram Radium Equiv./Ton of formation

478


3400
3500
3600
3700
3800
3900
4000
4100
4200
RUN 1
RUN 2
SUPERIOR OIL CO.
STATE # 1-12
BUNICE FIELD
LEA COUNTY, N.M.

479

480



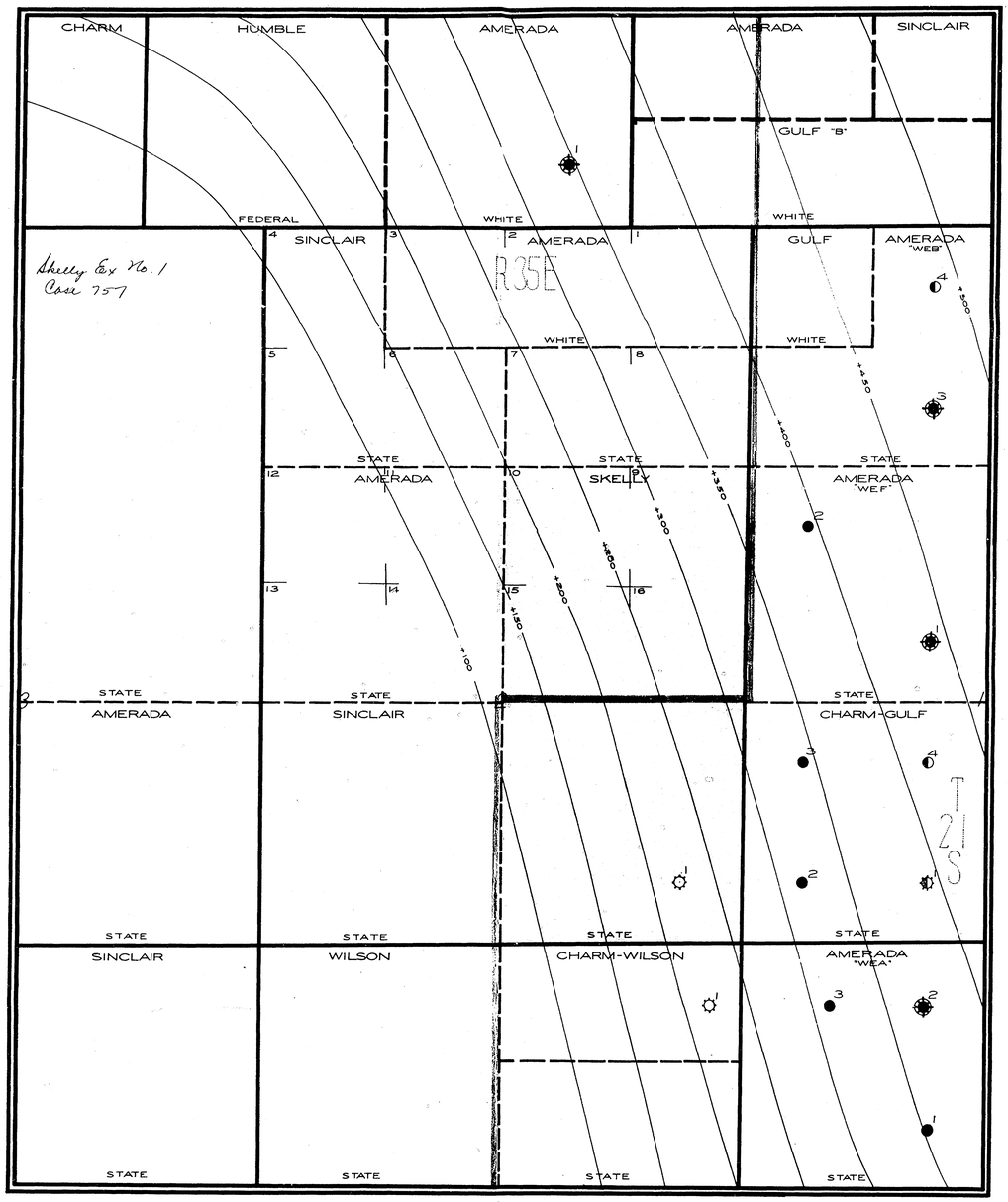
BRONCO SILURO-DEVONIAN POOL
LEA CO., NEW MEXICO
YOAKUM CO., TEXAS

SCALE: 1 INCH = 1000 FEET

0 2
MILES

Skelly Ex No. 1
Case 757

481



- PRESENT LIMITS OF EUMONT GAS POOL
- PROPOSED PRORATION UNIT
- OIL WELL
- GAS WELL
- DUAL WELL

SKELLY OIL COMPANY
MEXICO "W" LEASE
SEC 2-T21S-R35E
LEA COUNTY, NEW MEXICO

LANE RADIOACTIVITY LOG WELLS

COMPANY

Location of Well
Skelly
E, 13
Case 757

COMPANY: SKELLY OIL COMPANY
WELL: MELTON "A" NO. 1
FIELD: WEST MONUMENT
COUNTY: LEA STATE: N MEX.
LOCATION: 660' FS & E LINES OF SEC. 2, T-21-S, R-35-E

FILE NO.

COMPANY SKELLY OIL COMPANY
WELL MELTON "A" NO. 1
FIELD WEST MONUMENT
COUNTY LEA STATE N MEX.
LOCATION

LOG MEAS. FROM TOP KELLY DRIVE BUSHING, ELEV.*
DRLG. MEAS. FROM TOP KELLY DRIVE BUSHING ELEV.*
PERM. DATUM T. D. R. IS 9.68' ABOVE G. L. ELEV.*

TYPE OF LOG	GAMMA RAY	NEUTRON
RUN NO.	ONE-RM	ONE-RM
DATE	6-6-54	6-6-54
TOTAL DEPTH (DRILLER) BACK	4065	4065
EFFECTIVE DEPTH (DRILLER)	4065	4065
TOP OF LOGGED INTERVAL	SURFACE	SURFACE
BOTTOM OF LOGGED INTERVAL	4055	4055
TYPE OF FLUID IN HOLE	MUD	MUD
FLUID LEVEL	FULL	FULL
MAXIMUM RECORDED TEMP.		60MR
NEUTRON SOURCE STRENGTH & TYPE		1.25
SOURCE SPACING — IN.		3"
LENGTH OF MEASURING DEVICE — IN.	30"	3 5/8"
O.D. OF INSTRUMENT — IN.	3 5/8"	3.2
TIME CONSTANT — SECONDS	1.0	20-1.0
LOGGING SPEED FT. MIN.	RC-1.0	
STATISTICAL VARIATION — IN.		
SENSITIVITY REFERENCE	27A	27S
RECORDED BY	SCHLUMBERGER & CAMPBELL	
WITNESSED BY	GEORGE	GEORGE

RECORDED SIMULTANEOUSLY

CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM	WELL RECORD TO	FROM	R A LOG TO
ONE	12 1/4"	9 5/8"		SURFACE	290	SURFACE	288
ONE	8 3/4"			290	3990	288	3990
ONE	6 1/8"			3990	4065	3990	4057

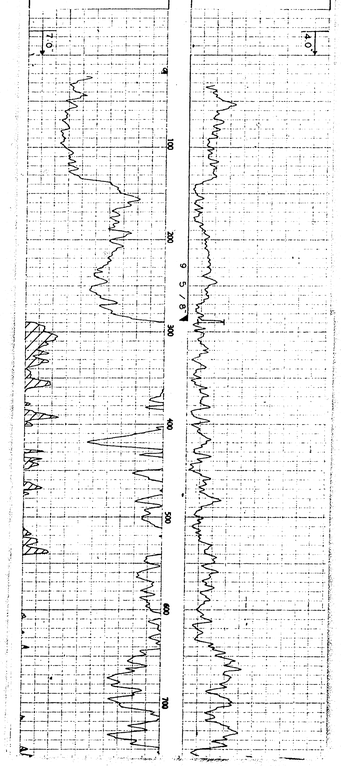
REMARKS OR OTHER DATA

* ELEVATION UNAVAILABLE

GAMMA RAY → RADIATION INTENSITY INCREASES

COUNTS PER MINUTE

NEUTRON → RADIATION INTENSITY INCREASES



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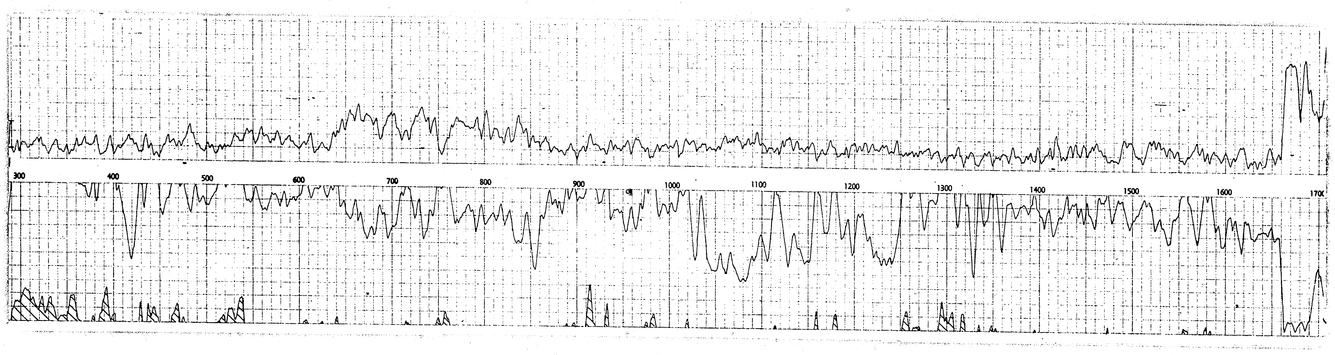
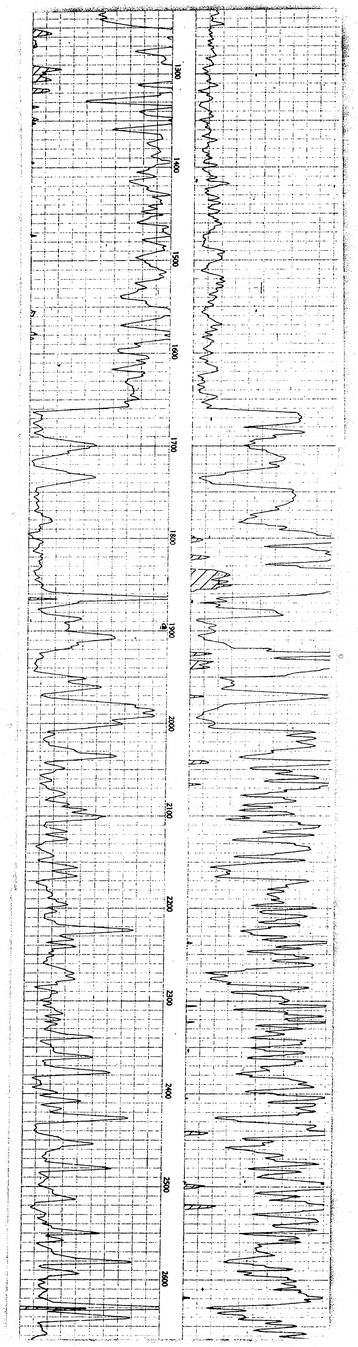
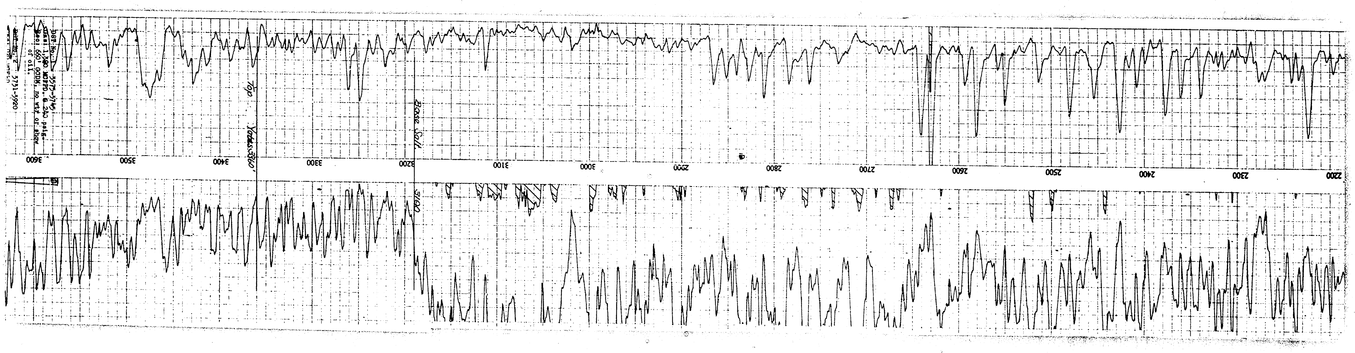

300
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500
1600
170(

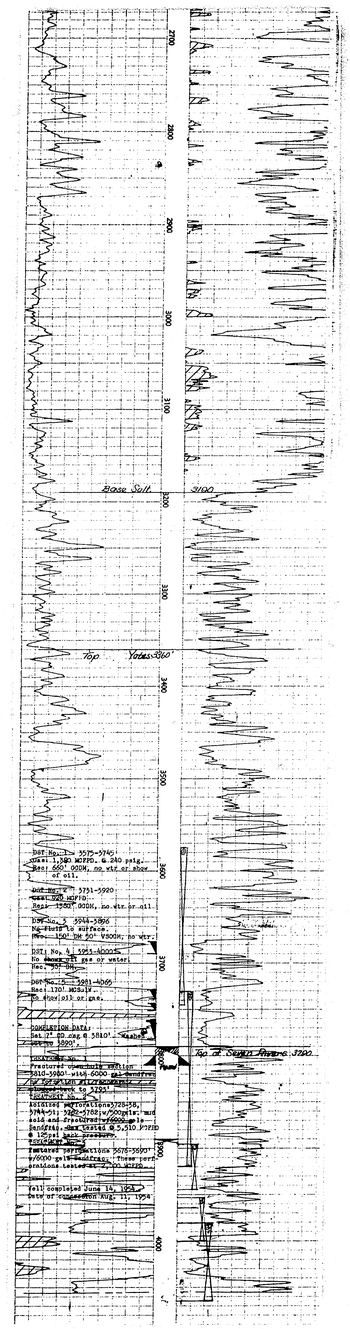
483


1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
2600

484

485





Base Salt 3100
Top Yates 3360'
Top of Seven Rivers 3700
DST No. 1 3575-3745
Gas: 1,380 MCFPD. @ 240 psig.
Rec: 660' GOOM, no wtr or show of oil.
DST No. 2 3751-3920
Gas: 920 MCFPD.
Rec: 1500' GOOM, no wtr or oil.
DST No. 3 3944-3896
No fluid to surface.
Rec: 150' DM 50' VSOOM, no wtr.
DST No. 4 3953-4000
No shows oil gas or water.
Rec: 35' DM.
DST No. 5 3981-4065
Rec: 170' MCSW.
No show oil or gas.
CONVERSION DATA:
Set 7" DD csg @ 3810'. Washed to 3890'.
LOCATION NO. 1
Fractured open hole section 3810-3980' with 6000 gal. Sandfrac. Set 5½" Lock Pressure Packer to 3795'.
LOCATION NO. 2
Acidized perforations 3728-58, 3744-51; 3722-3782; w/500 gals. mud acid and fractured w/6000 gals. Sandfrac. Gas tested @ 5,510 MCFPD @ 125 psi back pressure.
LOCATION NO. 3
Fractured perforations 3676-3690' w/6000 gals. Sandfrac. These perforations tested at 2,500 MCFPD.
Well completed June 14, 1954
Date of connection Aug. 11, 1954

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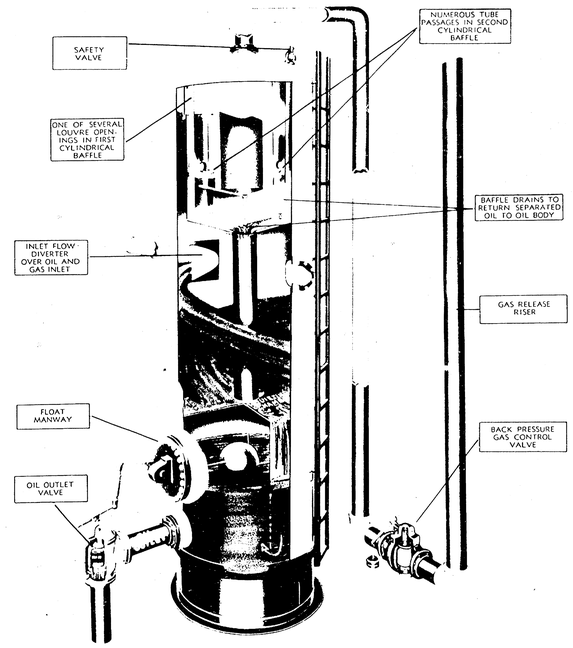
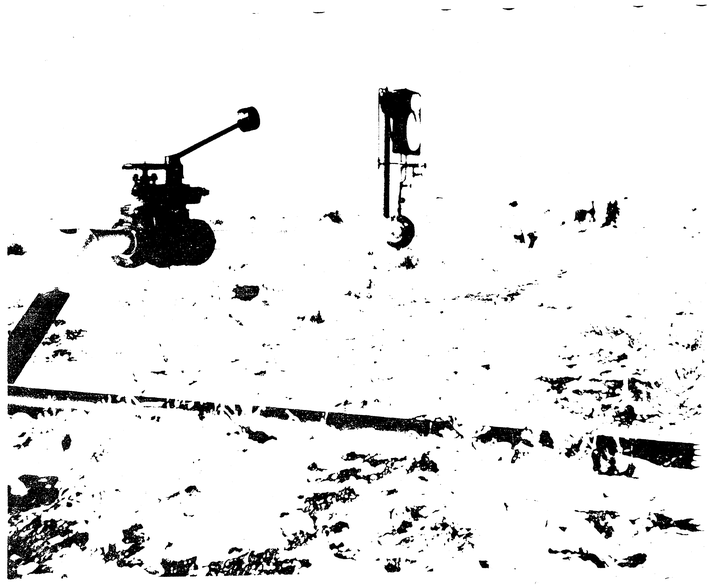
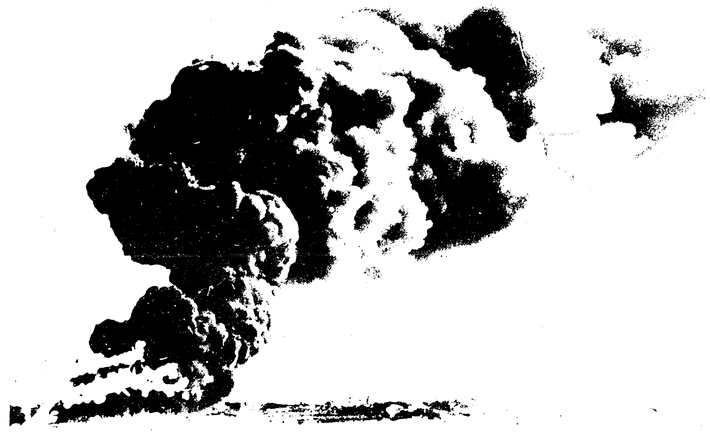
LOW PRESSURE SEPARATOR FLUID FLOW DIAGRAM

(Patented)



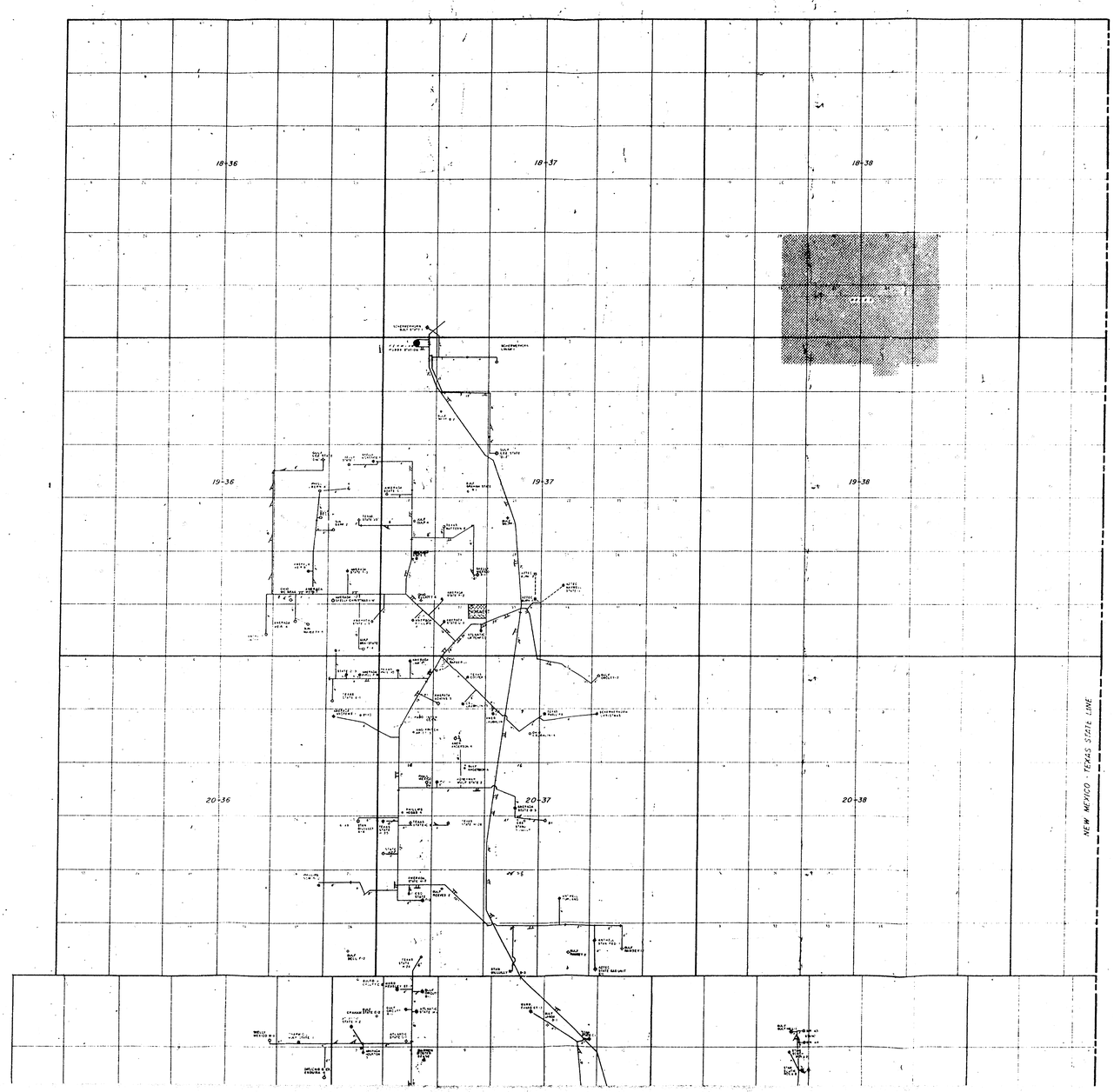
487

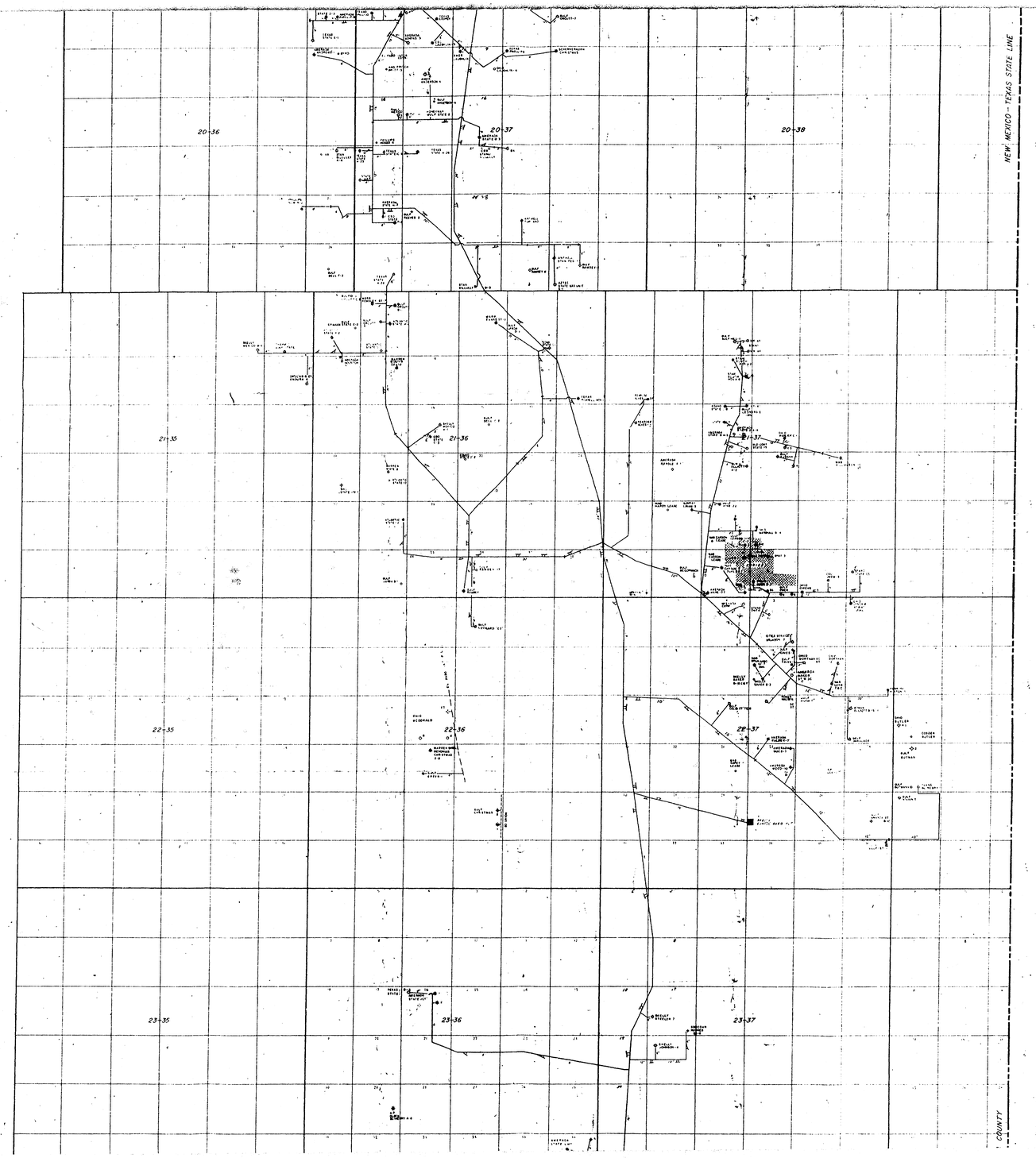


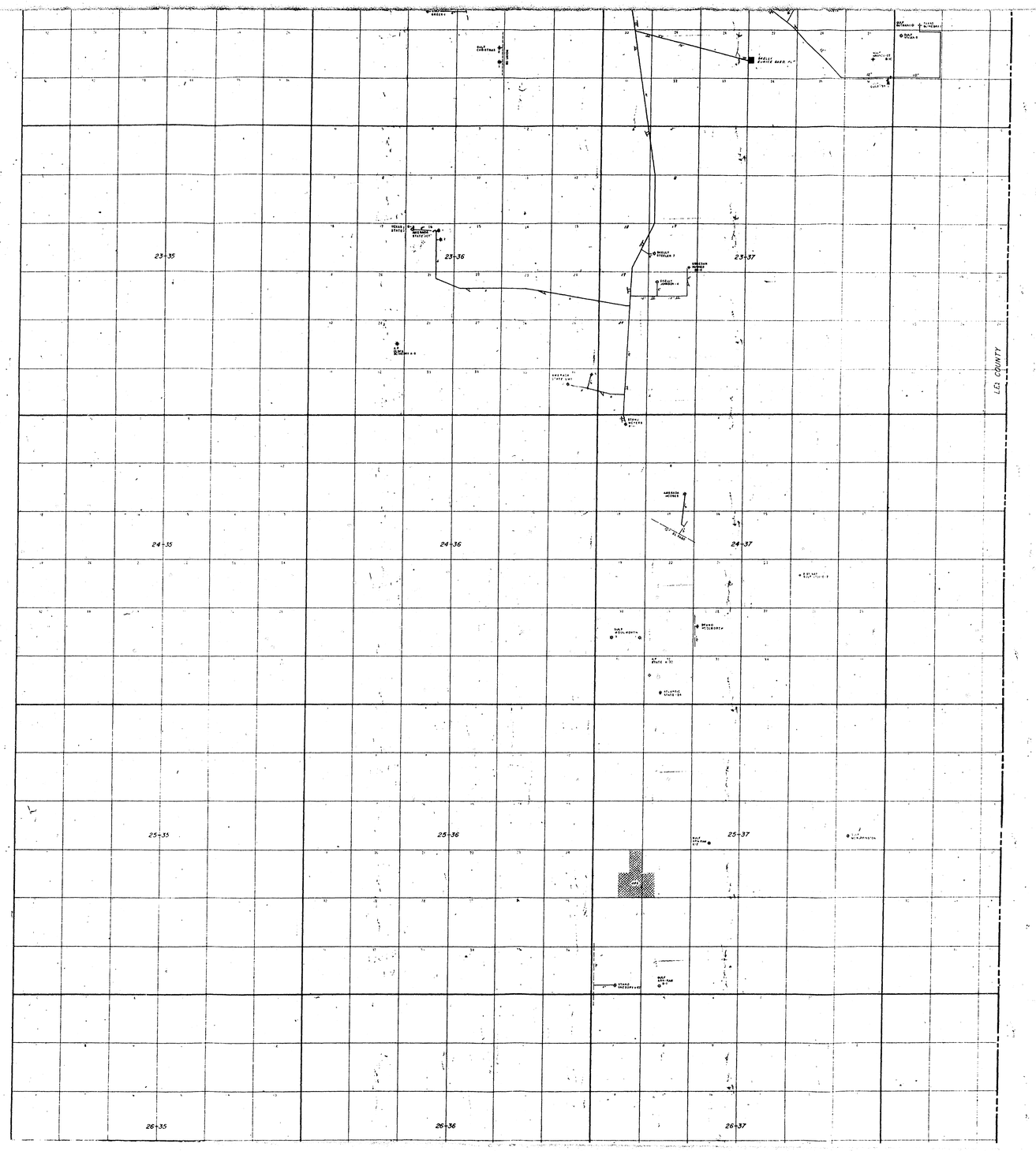


488

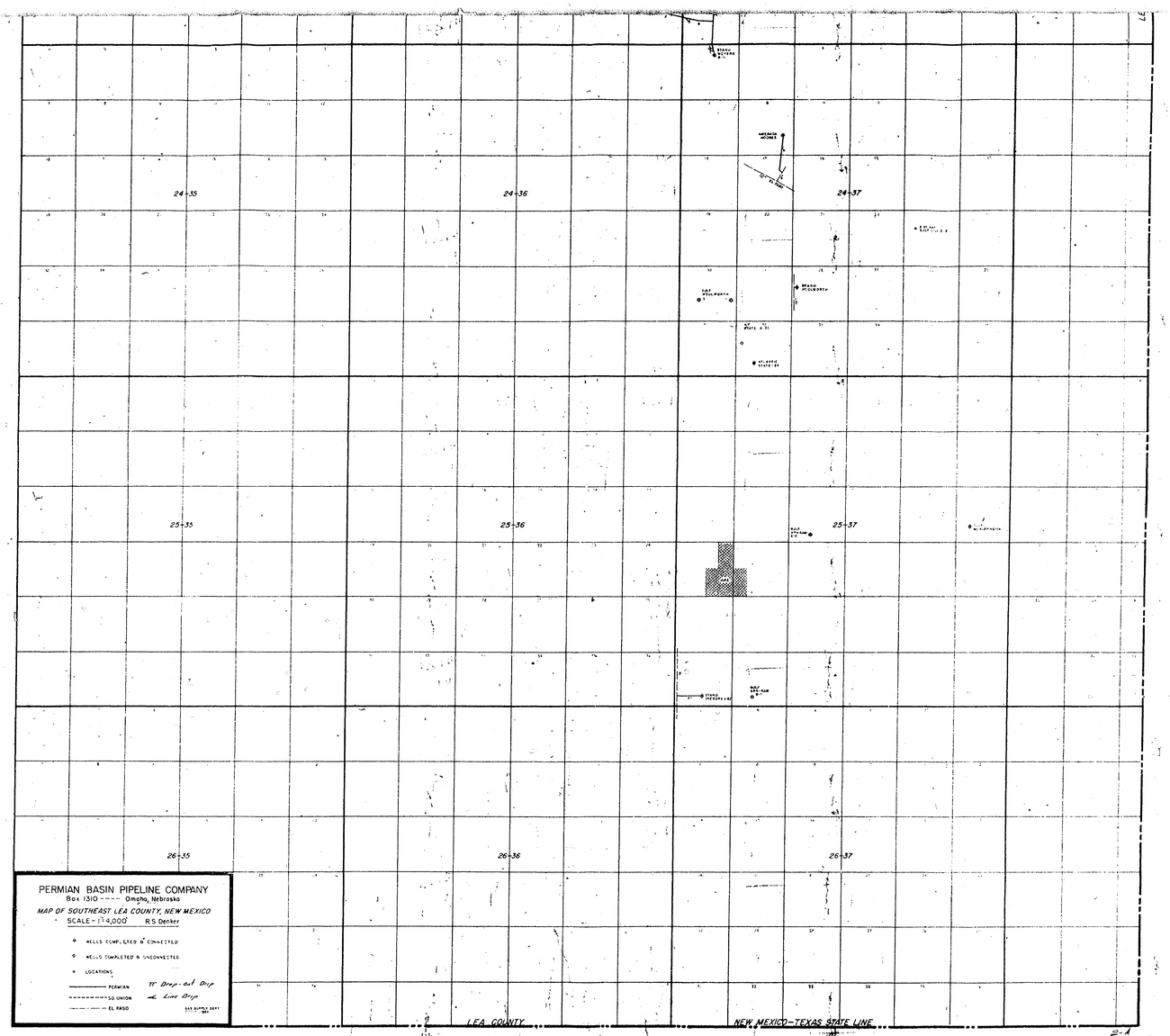
489


18-36
18-37
18-38
19-36
19-37
19-38
20-36
20-37
20-38
NEW MEXICO - TEXAS STATE LINE

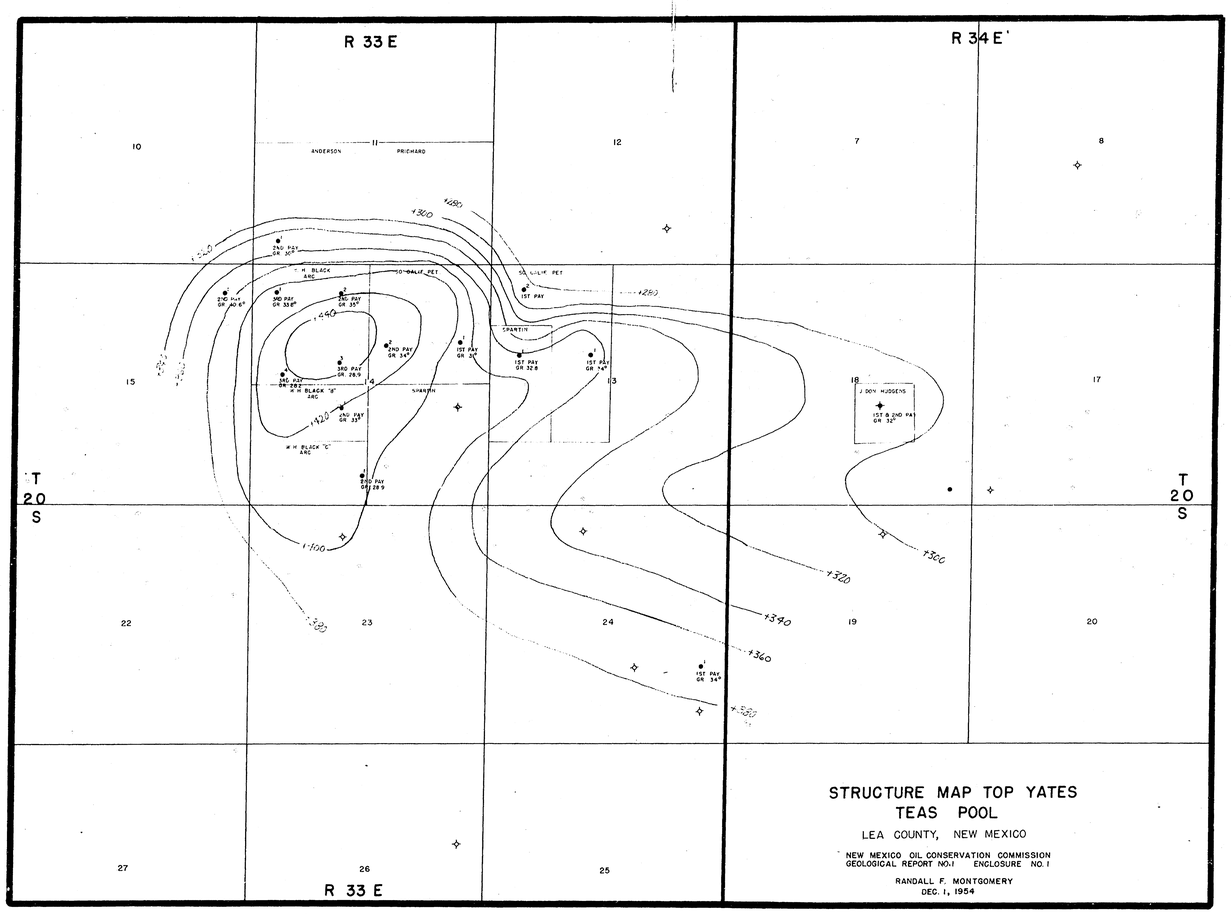

20-36
20-37
20-38
NEW MEXICO - TEXAS STATE LINE
21-35
21-36
21-37
22-35
22-36
22-37
23-35
23-36
23-37
COUNTY


23-35
23-36
23-37
24-35
24-36
24-37
25-35
25-36
25-37
26-35
26-36
26-37
LEA COUNTY

491


24-35
24-36
24-37
25-35
25-36
25-37
26-35
26-36
26-37
LEA COUNTY
NEW MEXICO-TEXAS STATE LINE
PERMIAN BASIN PIPELINE COMPANY
Box 1310 ---- Omaha, Nebraska
MAP OF SOUTHEAST LEA COUNTY, NEW MEXICO
SCALE - 1"=4,000' R.S. Denker
WELLS COMPLETED & CONNECTED
WELLS COMPLETED & UNCONNECTED
LOCATIONS
PERMIAN
SO. UNION
EL PASO
TT Drop-out Drip
Line Drip

492



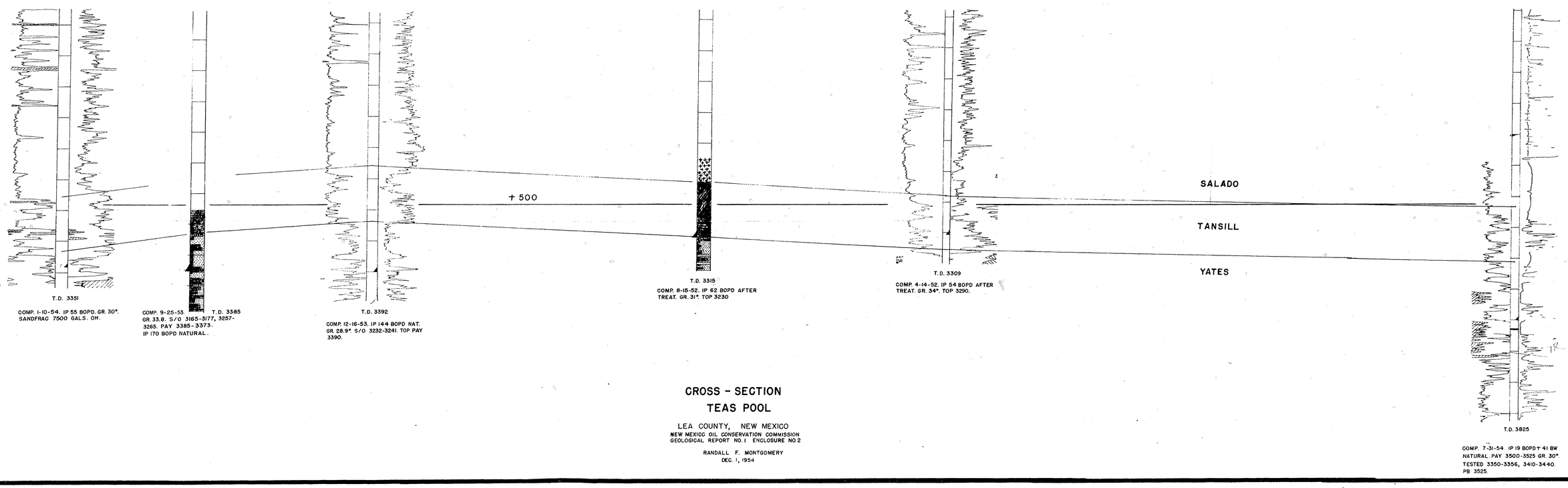
STRUCTURE MAP TOP YATES
TEAS POOL

LEA COUNTY, NEW MEXICO

NEW MEXICO OIL CONSERVATION COMMISSION
GEOLOGICAL REPORT NO.1 ENCLOSURE NO. 1

RANDALL F. MONTGOMERY
DEC. 1, 1954

493

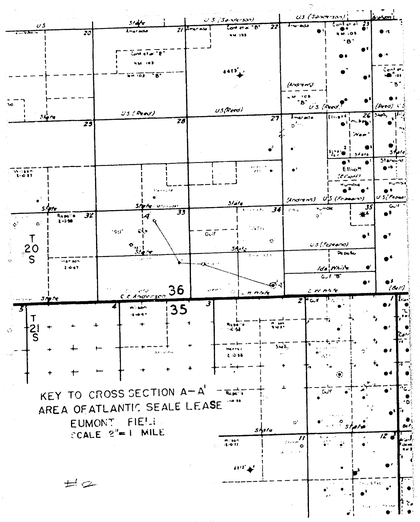


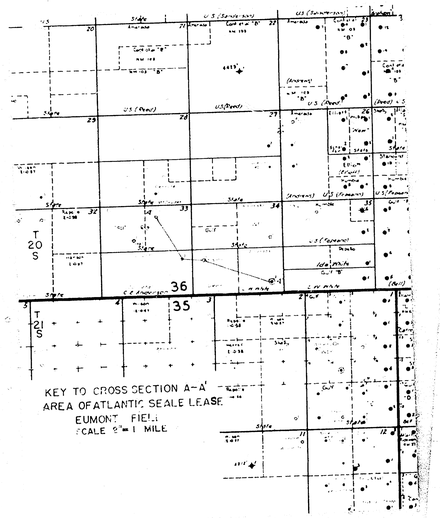
CROSS - SECTION
TEAS POOL

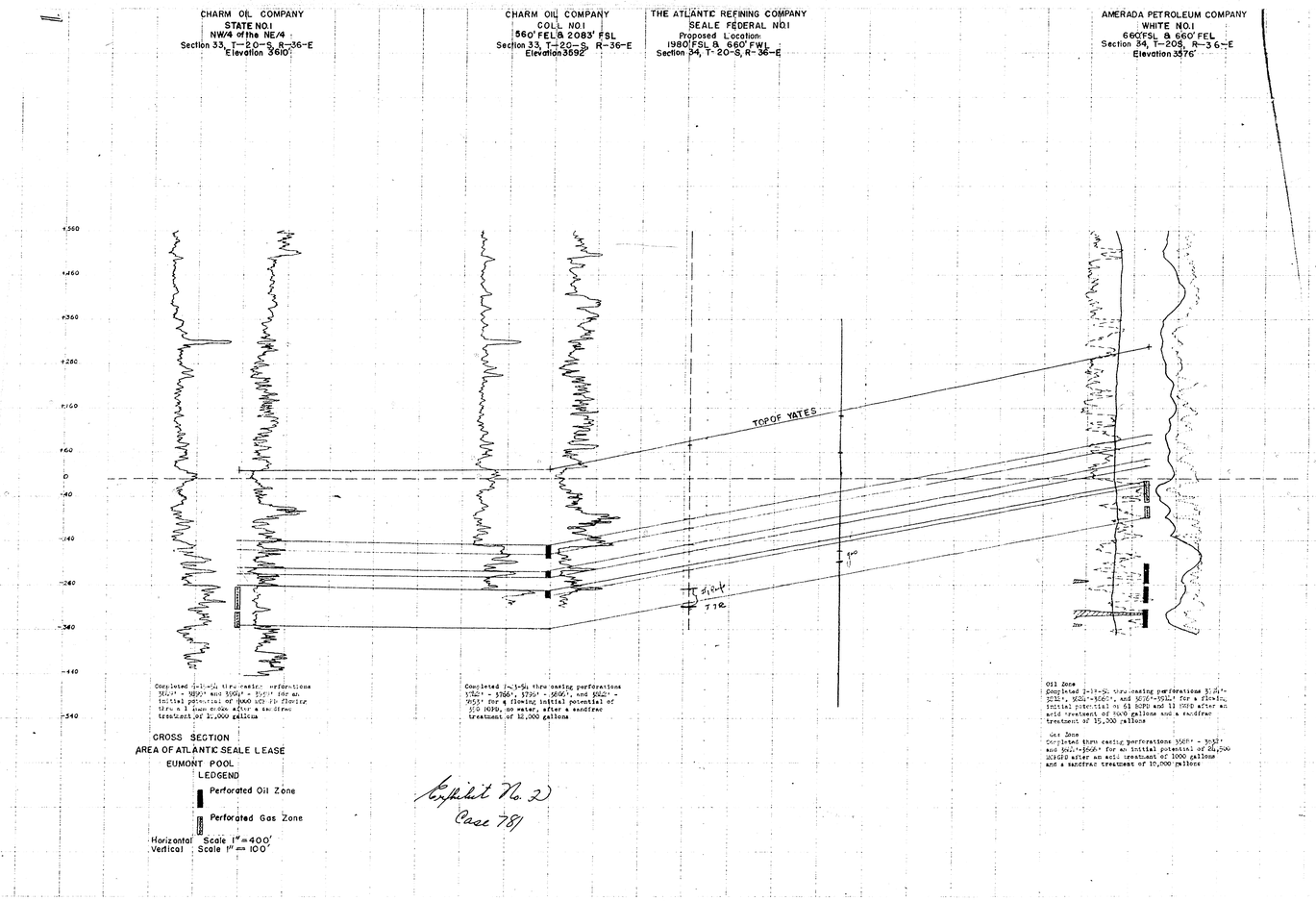
LEA COUNTY, NEW MEXICO
NEW MEXICO OIL CONSERVATION COMMISSION
GEOLOGICAL REPORT NO. 1 ENCLOSURE NO. 2

RANDALL F. MONTGOMERY
DEC. 1, 1954

494

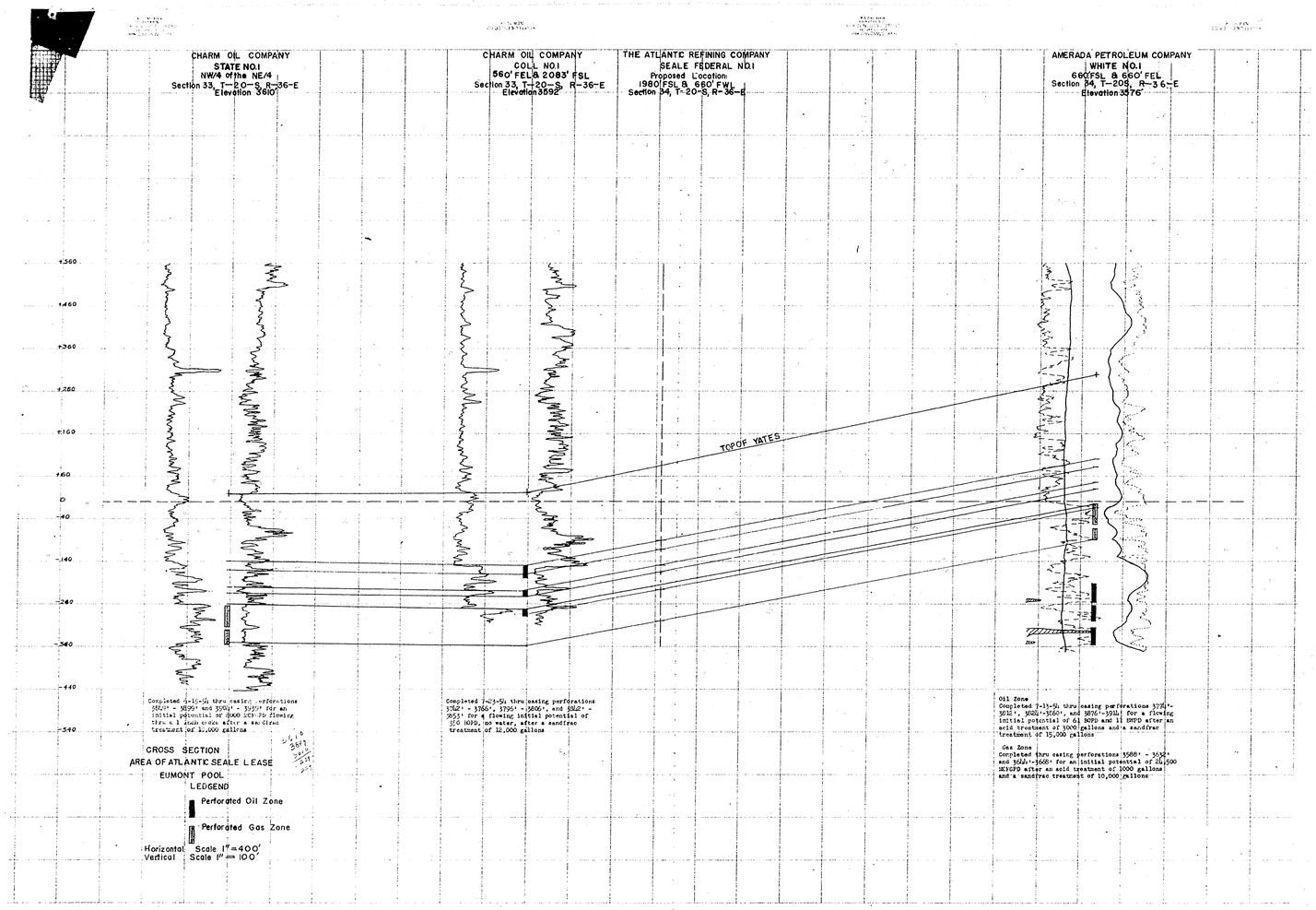






495

Exhibit No. 2
Case 781


CHARM OIL COMPANY
STATE NO.1
NW/4 of the NE/4
Section 33, T-20-S, R-36-E
Elevation 3610'
CHARM OIL COMPANY
COLL NO.1
560' FEL & 2083' FSL
Section 33, T-20-S, R-36-E
Elevation 3592'
THE ATLANTIC REFINING COMPANY
SEALE FEDERAL NO.1
Proposed Location:
1980' FSL & 660' FWL
Section 34, T-20-S, R-36-E
AMERADA PETROLEUM COMPANY
WHITE NO.1
660' FSL & 660' FEL
Section 34, T-20S, R-36-E
Elevation 3576'
+560
+460
+360
+260
+160
+60
0
-40
-140
-240
-340
-440
-540
TOP OF YATES
Completed 6-15-54 thru casing perforations 3889' - 3899' and 3904' - 3959' for an initial potential of 8000 MCFGPD flowing thru a 1 inch choke after a sandfrac treatment of 12,000 gallons
Completed 7-23-54 thru casing perforations 3742' - 3766', 3796' - 3806', and 3842' - 3853' for a flowing initial potential of 350 BOPD, no water, after a sandfrac treatment of 12,000 gallons
Oil Zone
Completed 7-13-54 thru casing perforations 3774'-3812', 3824'-3860', and 3876'-3914' for a flowing initial potential of 61 BOPD and 11 BWPD after an acid treatment of 3000 gallons and a sandfrac treatment of 15,000 gallons
Gas Zone
Completed thru casing perforations 3588' - 3632' and 3644'-3668' for an initial potential of 24,500 MCFGPD after an acid treatment of 1000 gallons and a sandfrac treatment of 10,000 gallons
CROSS SECTION
AREA OF ATLANTIC SEALE LEASE
EUMONT POOL
LEDGEND
Perforated Oil Zone
Perforated Gas Zone
Horizontal Scale 1" = 400'
Vertical Scale 1" = 100'

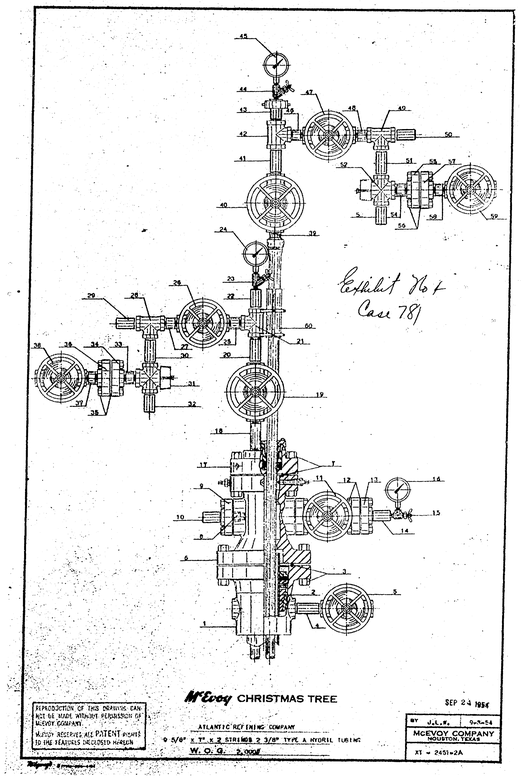


Exhibit No 4
Case 781
McEvoy CHRISTMAS TREE
SEP 24 1954
REPRODUCTION OF THIS DRAWING CAN NOT BE MADE WITHOUT PERMISSION OF McEVOY COMPANY.
McEVOY RESERVES ALL PATENT RIGHTS TO THE FEATURES DISCLOSED HEREON
ATLANTIC REFINING COMPANY
9 5/8" X 7" X 2 STRINGS 2 3/8" TYPE A HYDRIL TUBING
W. O. G. 2,000#
BY J.L.F. 9-9-54
McEVOY COMPANY
HOUSTON, TEXAS
XT - 2451-2A

497

THE WESTERN COMPANY

GAMMATRON

Simultaneous Radioactivity Log

LOCATION

BEFORE THE WELL WAS DRILLED

AFTER THE WELL WAS DRILLED

FILE NO. 7548

LOG NO. 7548

COMPANY: OLSEN & BLOUNT OIL COMPANY

WELL: HODGE #2

FIELD: LANGLIE-MATTIX

COUNTY: LEA STATE: N.M.

LOCATION: NW/4 OF NW/4 OF NW/4

SEC. 8 24S 37E

LOG MEAS. FROM: R.T. (8' ABOVE D.F.) ELEV.

DRLG. MEAS. FROM: ROTARY TABLE ELEV.

PERM. DATUM: 8 5/8 BRADEN HEAD ELEV.

COMPANY: OLSEN & BLOUNT OIL CO.
WELL: HODGE #2
FIELD: LANGLIE-MATTIX
COUNTY: LEA
LOCATION: SEC. 8 T. 24S R. 37E STATE: N.M.

RUN NO.	ONE	ONE
TYPE OF LOG	G/R	NEUTRON
DATE	7-31-54	7-31-54
TOTAL DEPTH (OPERATOR)	3080	3080
EFFECTIVE DEPTH (OPERATOR)	3080	3080
EFFECTIVE DEPTH (WESTERN)	3081	3081
TOP OF LOGGED INTERVAL	1600	1600
BOTTOM OF LOGGED INTERVAL	3070	3070
TYPE OF FLUID IN HOLE	MUD	MUD
FLUID LEVEL	FULL	FULL
NEUTRON SOURCE TYPE		6OOM
SOURCE SPACING ...IN.		9-11
LENGTH OF DETECTOR ...IN.	30	9-11
O.D. OF INSTRUMENT ...IN.	3 5/8	3 5/8
TIME CONSTANT ...SEC.	1.0	6.4
LOGGING SPEED ...FT./MIN.	25	25
STATISTICAL VARIATION ...IN.		
SENSITIVITY REFERENCE	275	275
RECORDED BY	MISCHKE	MISCHKE
WITNESSED BY	JOHNNY WOODY	JOHNNY WOODY

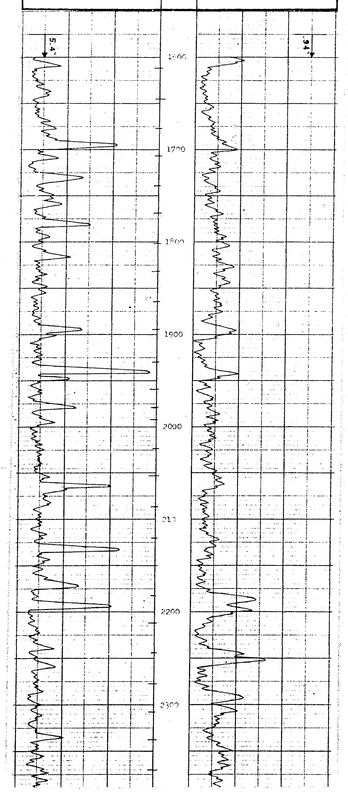
RECEIVED
AUG 11 1954
OIL CONSERVATION COMMISSION
ROSWELL, NEW MEXICO

CASING RECORD

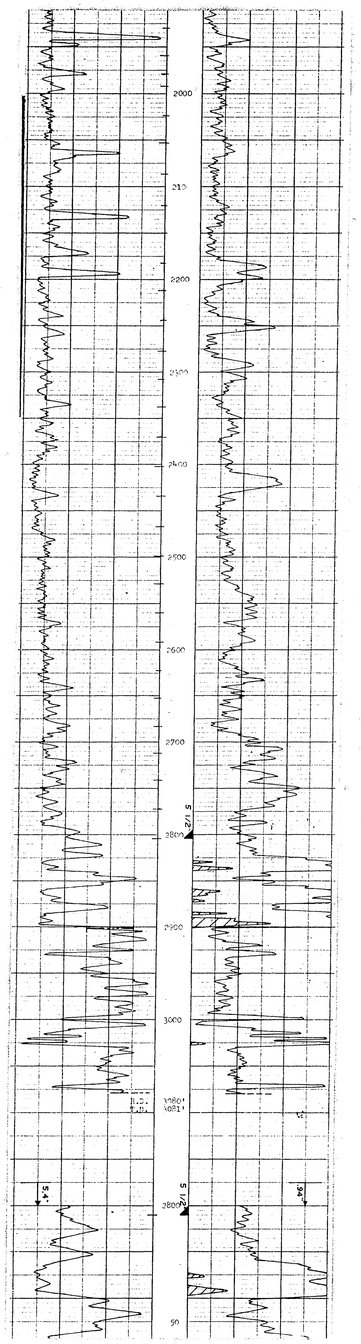
RUN NO.	BIT SIZE	CASING	WT.-LB.	FROM	TO	WELL RECORD INTERVAL FROM	TO	RA LOG INTERVAL FROM	TO
ONE		5 1/2"		SURF.	2850	SURF.	2850	SURF.	2851
ONE	4 3/4"			2850	3080	2850	3080	2851	3081

REMARKS

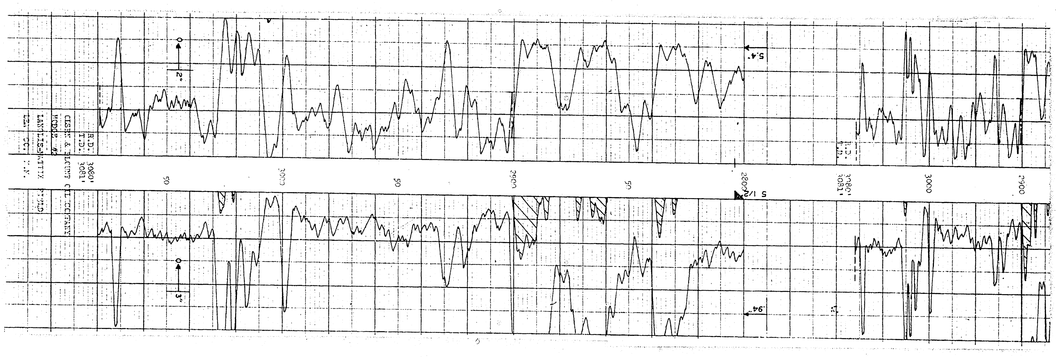
GAMMA RAY	NEUTRON
RADIATION INTENSITY INCREASES →	RADIATION INTENSITY INCREASES →



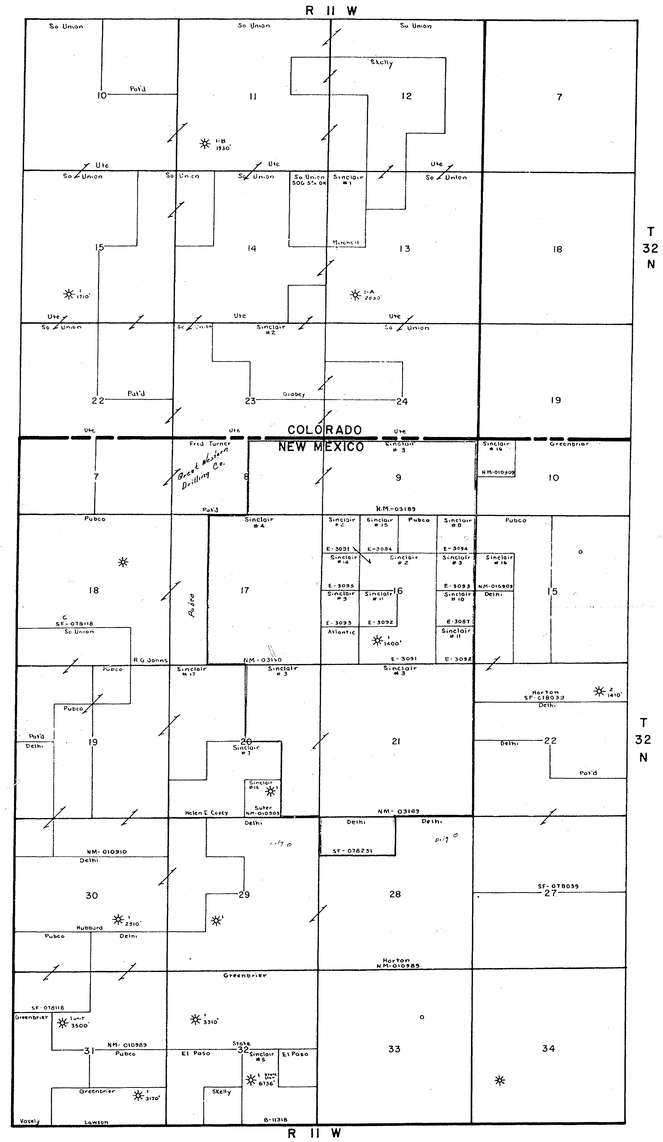
498


2000
2100
2200
2300
2400
2500
2600
2700
5 1/2
2800
2900
3000
3080'
3081'
5 1/2
2800
50

500

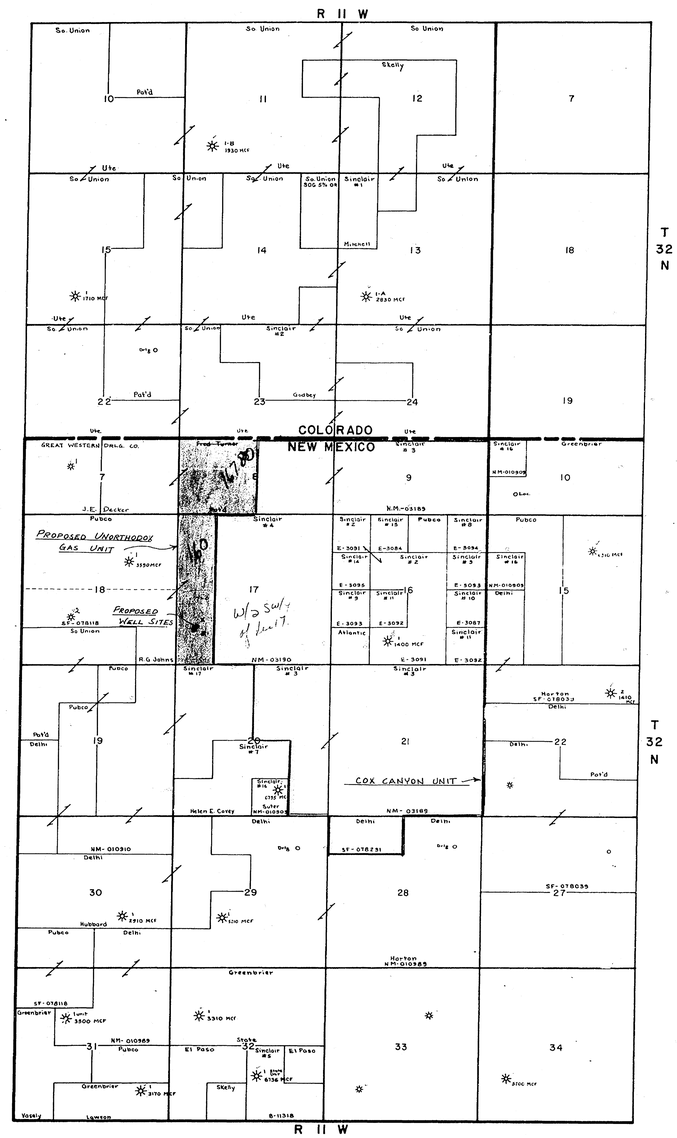


501



COX CANYON BLOCK

Scale: 1"=1600'

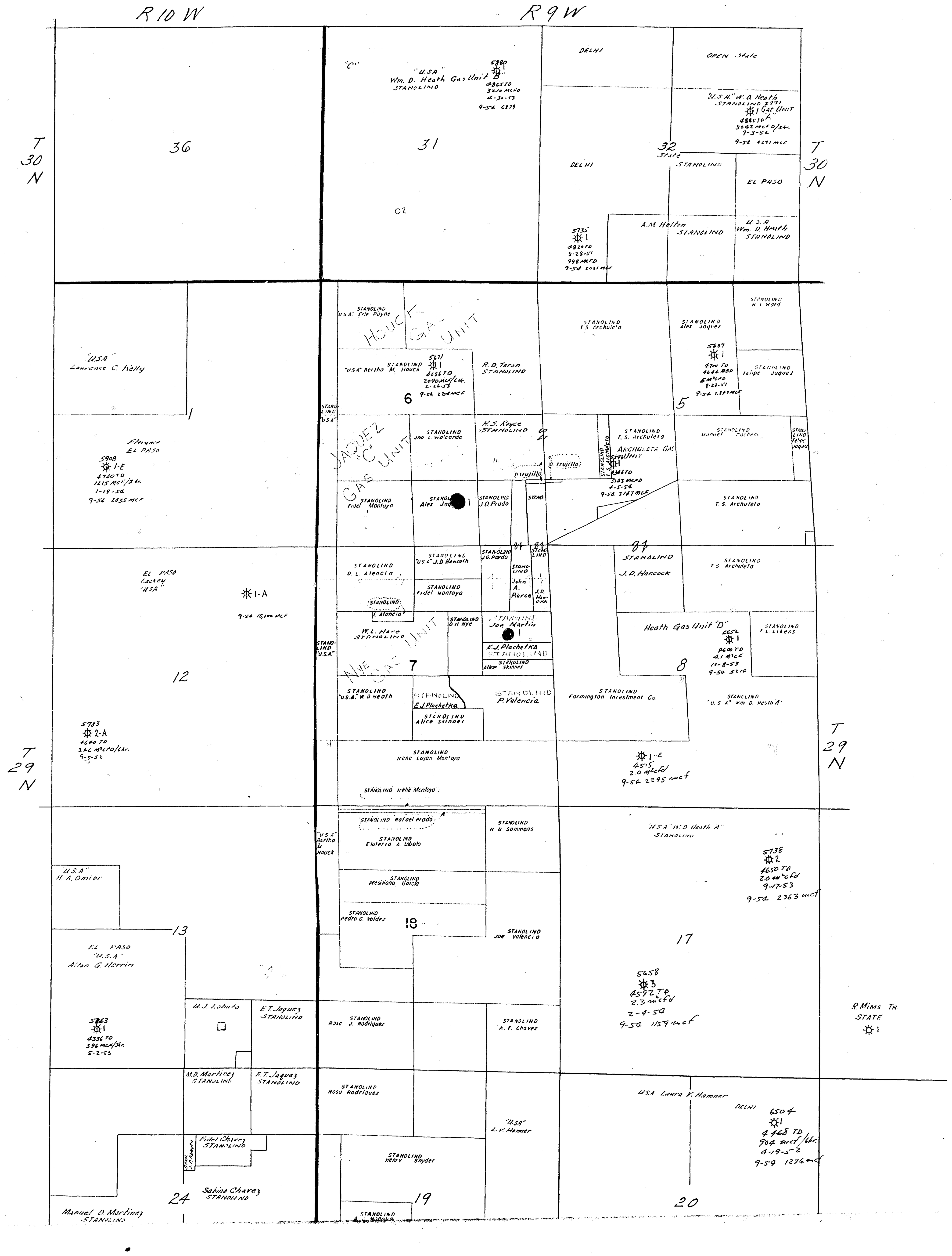


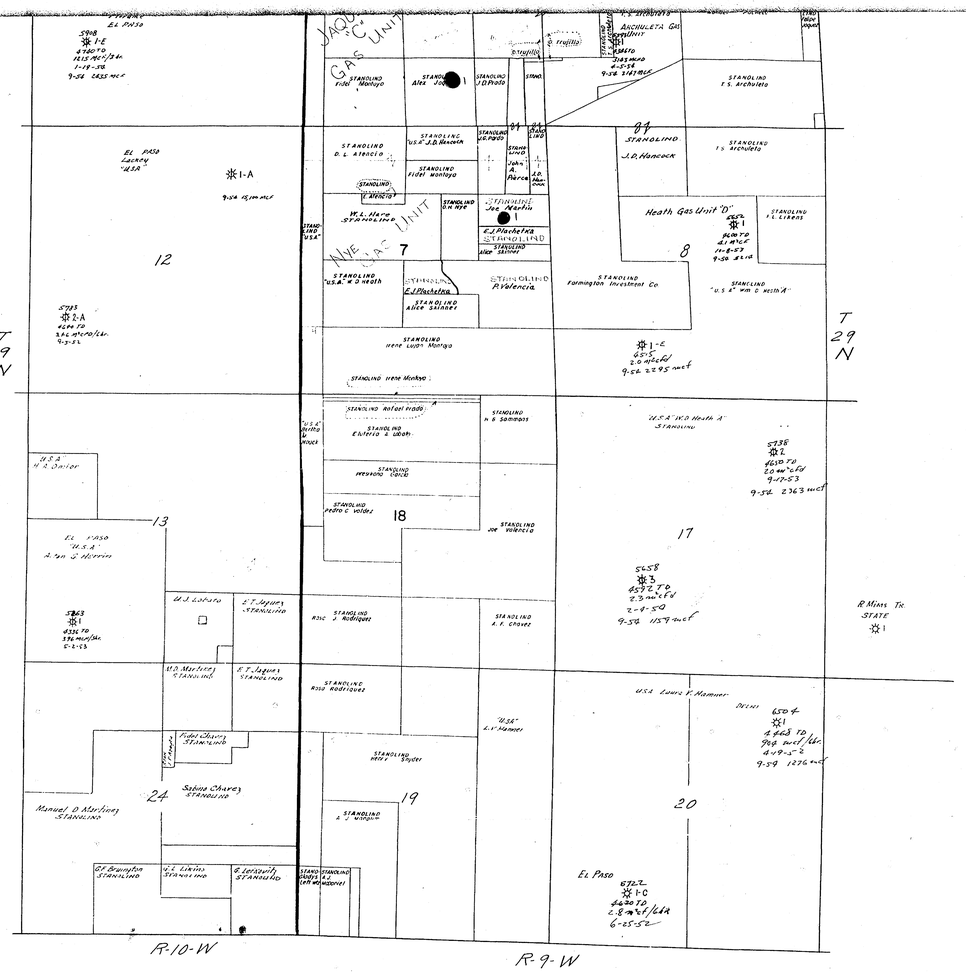
COX CANYON BLOCK

Scale: 1"=1600'

GREAT WESTERN DRLG. CO.
CASE NO. 786 EXHIBIT 1

502


R 10 W
R 9 W
T 30 N
T 29 N
36
31
32
"U.S.A." Wm. D. Heath Gas Unit "B" STANOLIND
5880
4865 TD
3210 MCFD
4-30-53
9-54 6879
DELHI
OPEN State
"U.S.A." W. D. Heath STANOLIND 5771 Gas Unit "A"
4885 TD
5042 MCFD/54hr.
7-3-54
9-54 4671 mcf
State
STANOLIND
EL PASO
A.M. Helton STANOLIND
U.S.A Wm. D. Heath STANOLIND
5735
4920 TD
8-28-51
998 MCFD
9-54 2021 mcf
"USA" Laurence C. Kelly
STANOLIND U.S.A. Frie Payne
HOUCK GAS UNIT
"USA" Bertha M. Houck STANOLIND
5671
4656 TD
2090 mcf/6hr.
2-26-53
6
R. D. Teran STANOLIND
STANOLIND T.S. Archuleta
STANOLIND Alex Jaquez
5639
4700 TD
4644 BBD
5M CFD
8-23-51
5
STANOLIND H. I. Ward
STANOLIND Felipe Jaquez
Florence EL PASO
5908
1-E
4740 TD
1215 mcf/3 hr.
1-19-54
9-54 2635 mcf
JAQUEZ "C" GAS UNIT
STANOLIND Jno L. Valcardo
H. S. Royce STANOLIND
STANOLIND T. S. Archuleta
ARCHULETA GAS UNIT
4336 TD
3183 MCFD
4-5-54
9-54 2147 mcf
STANOLIND Manuel Pacheco
STANOLIND Fidel Montoya
STANOLIND Alex Jaquez
STANOLIND J.D. Prado
STANOLIND T. S. Archuleta
EL PASO Lackey "USA"
1-A
9-54 15,100 MCF
STANOLIND D. L. Atencia
STANOLIND "U.S.A." J.D. Hancock
STANOLIND J.G. Pardo
STANOLIND Fidel Montoya
John A. Pierce
J.D. Hancock
STANOLIND J. D. Hancock
STANOLIND T.S. Archuleta
W. L. Hare STANOLIND
STANOLIND O.H. Nye
STANOLIND Joe Martin
E. J. Plachetka STANOLIND
STANOLIND Alice Skinner
NYE GAS UNIT
7
Heath Gas Unit "D"
5652
4600 TD
4.1 M CF
10-8-53
9-54 5214
8
STANOLIND F. L. Likens
12
STANOLIND "U.S.A." W. D. Heath
STANOLIND E.J. Plachetka
STANOLIND Alice Skinner
STANOLIND P. Valencia
STANOLIND Farmington Investment Co.
STANOLIND "U.S.A." Wm. D. Heath "A"
5783
2-A
4640 TD
3.46 M CFD/6hr.
9-5-52
STANOLIND Irene Lujan Montoya
1-E
4515
2.0 M cfd
9-54 2295 mcf
STANOLIND Irene Montoya
STANOLIND Rafael Prado
"U.S.A." Bertha M. Houck
STANOLIND H. B. Sommons
STANOLIND Eluterio A. Lobato
"U.S.A." W.D. Heath "A" STANOLIND
5738
2
4650 TD
2.0 M cfd
9-17-53
9-54 2363 mcf
"U.S.A." H. A. Omlor
STANOLIND Presiliano Garcia
STANOLIND Pedro C. Valdez
18
13
STANOLIND Joe Valencia
17
EL PASO "U.S.A." Alton G. Herrin
5658
3
4592 TD
2.3 M cfd
2-9-50
9-54 1159 mcf
U. J. Lobato
E.T. Jaquez STANOLIND
STANOLIND Rosa J. Rodriquez
STANOLIND A. F. Chavez
R. Mims Tr. STATE
5263
1
4336 TD
396 MCF/3hr.
5-2-53
M.D. Martinez STANOLIND
E.T. Jaquez STANOLIND
STANOLIND Rosa Rodriquez
U.S.A. Laura V. Hamner
DELHI
6504
1
4468 TD
904 mcf/6hr.
4-19-52
9-54 1276 mcf
"U.S.A." L. V. Hamner
Fidel Chavez STANOLIND
STANOLIND Henry Snyder
24
Sabino Chavez STANOLIND
19
20
Manuel D. Martinez STANOLIND



STANOLIND OIL AND GAS COMPANY

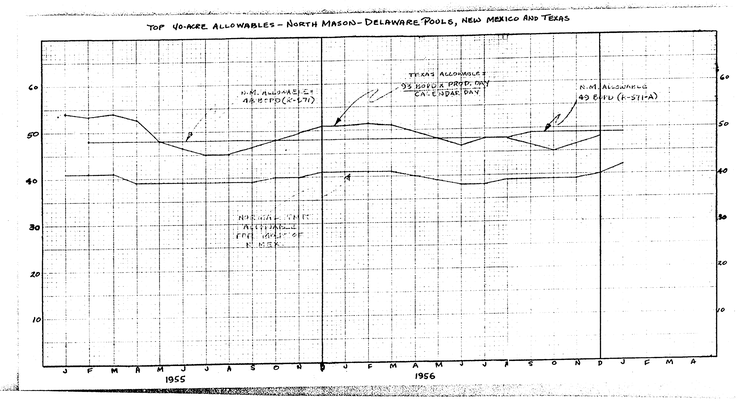
BLANCO AREA

SAN JUAN CO., NEW MEXICO

SCALE: 1" = 880' (Approx.)

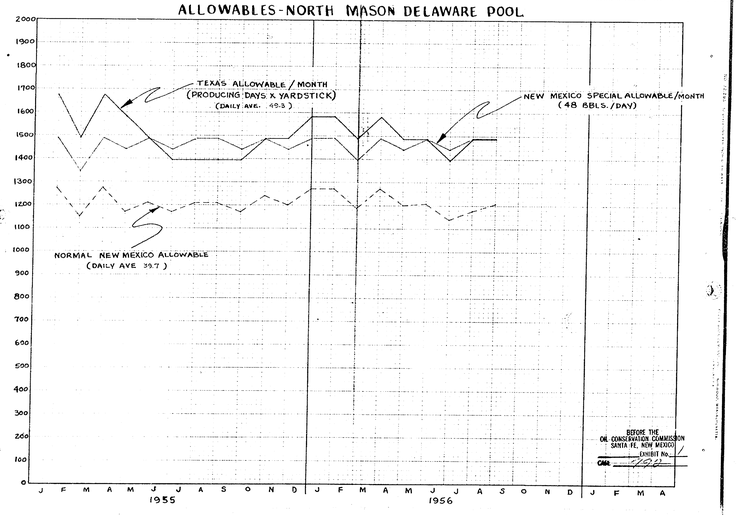
503

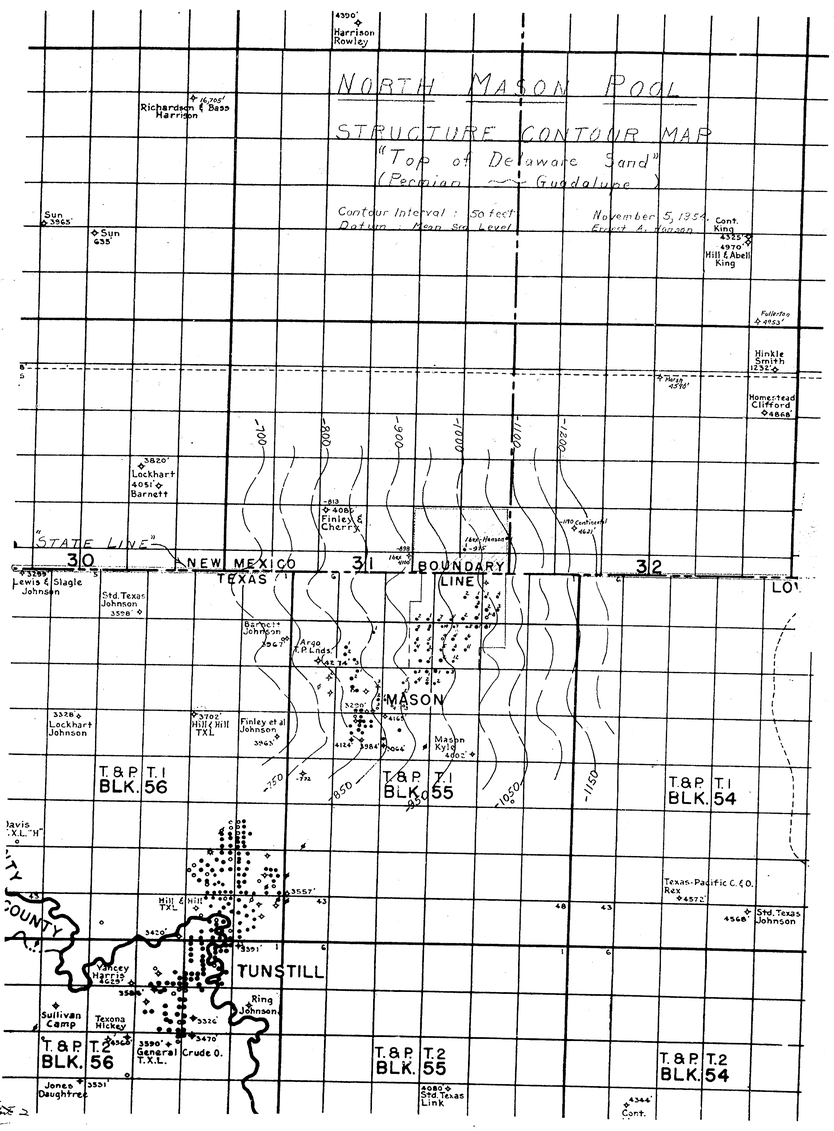
BEFORE THE
OIL CONSERVATION COMMISSION
OF SANTA FE, NEW MEXICO
Stanolind EXHIBIT No. 1
CASE 787



NORTH MASON-DELAWARE
COMPARISON OF ALLOWABLES, TEX-N.M.

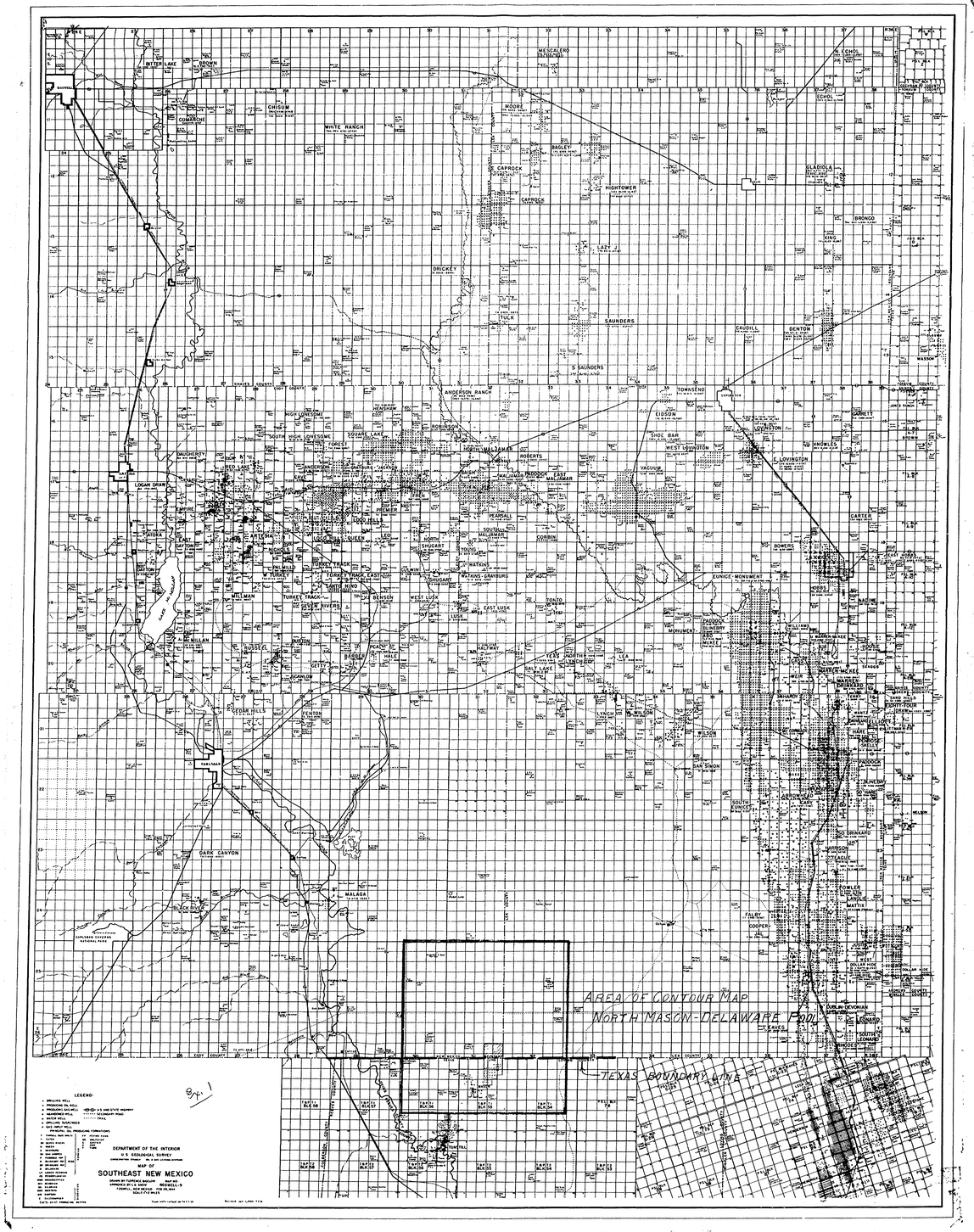
		(1) Normal Prod. Rate, 1957 Yardstick 40 Acres, Yard	(2) Prod. Days	(3) Calendar Days	(4) Prod. Days / Cal. Days	(5) Col. 4 X Col. 1	(6) N.Mex. Allowable (N.Mason)	(7) Texas Excess over N.M.	(8) N.M. Excess over Texas
1955	JAN.	93	18 1674	31	.582	54.0			
	FEB.	"	16 1488	28	.572	53.2	48	145 5.2	
	MAR.	"	18 1674	31	.582	54.0	"	136 6.0	
	APR.	"	17 1581	30	.567	52.7	"	141 4.7	
	MAY	"	16 1488	31	.517	48.0	"	0	0
	JUNE	"	15 1395	30	.500	46.5	"		45 1.5
	JULY	"	15 1395	31	.484	45.0	"		33 3.0
	AUG.	"	15 1395	31	.484	45.0	"		33 3.0
	SEPT.	"	15 1395	30	.500	46.5	"		45 1.5
	OCT.	"	16 1488	31	.517	48.0	"	0	0
	NOV.	"	16 1488	30	.534	49.6	"	48 1.6	
	DEC.	"	17 1581	31	.549	51.0	"	93 3.0	
1956	JAN.	"	17 1581	31	.549	51.0	"	93 3.0	
	FEB.	"	16 1488	29	.552	51.4	"	93 3.4	
	MAR.	"	17 1581	31	.549	51.0	"	93 3.0	
	APR.	"	16 1488	30	.534	49.6	"	48 1.6	
	MAY	"	16 1488	31	.517	48.0	"	0	0
	JUNE	"	15 1395	30	.500	46.5	"		45 1.5
	JULY	"	16 1488	31	.517	48.0	"	0	0
	A	"	16 1488					946	
	S		30 x 31 = 49.3 N/A						
55	J	31 x 41 1271	1488	31	.517	48.0	45	0 946	0
	A	31 x 41 1148	1344	30	.500	46.5	49	0	2.5
	M	31 x 41 1271	1488	31	.484	45.0	49	0	4.0
	A	31 x 39 1170	1440	30	.500	46.5	49	0	2.5
	M	31 x 39 1209	1488	31	.517	48.0	49	0	1.0
	J	31 x 39 1170	1440						
	J	31 x 39 1209	1488						
	A	31 x 39 1209	1488						
	S	30 x 39 1170	1440						
	O	31 x 40 1240	1488						
	N	30 x 40 1200	1440						
	D	31 x 41 1271	1488						
	J	31 x 41 1271	1488						
	A	31 x 41 1189	1395						
	M	31 x 41 1271	1488						
	A	31 x 39 1200	1440						
	M	31 x 39 1209	1488						
	J	30 x 39 1170	1440						
	J	31 x 39 1178	1488						
	A	31 x 39 1209	1488						
	S	30 x 39 1170	1440						
	O	31 x 39 1209	1519						
	N	30 x 39 1170	1470						
	D	31 x 40 1240	1519						
	J	31 x 42 1302	1519						





504

505


AREA OF CONTOUR MAP
NORTH MASON-DELAWARE POOL
TEXAS BOUNDARY LINE
LEGEND:
DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY
MAP OF
SOUTHEAST NEW MEXICO
ROSWELL-9
MESCALERO (SUBSURFACE)
BITTER LAKE
CHISUM
WHITE RANCH
MOORE
BAGLEY
HIGHTOWER
DRICKEY
SAUNDERS
S. SAUNDERS
ANDERSON RANCH
TOWNSEND
LIDSON
SHOE BAR
WEST LOVINGTON
E. LOVINGTON
DENTON
CAUDILL
TULK
LOGAN DRAW
ARTESIA
MALJAMAR
ROBERTS
VACUUM
EUNICE-MONUMENT
MONUMENT
WARREN DRINKARD
WARREN TUBB-DRINKARD
WARREN ABO
WARREN MCKEE
WARREN BLINEBRY
WARREN TUBB
WARREN PADDOCK
WARREN BLINEBRY-TUBB-DRINKARD
WARREN MCKEE-SIMPSON
WARREN WOLFCAMP
WARREN DEVONIAN
WARREN SILURIAN-DEVONIAN
WARREN ELLENBURGER
WARREN UPPER PENNSYLVANIAN
WARREN CISCO-CANYON
WARREN STRAWN
WARREN ATOKA
WARREN MORROW
WARREN MISSISSIPPIAN
WARREN UPPER ORDOVICIAN
WARREN FUSSELMAN
WARREN MONTOYA
WARREN SAN ANDRES
WARREN GLORIETA
WARREN CLEARFORK
WARREN TUBB-DRINKARD-ABO
WARREN PENNSYLVANIAN
WARREN PERMO-PENNSYLVANIAN
WARREN PERMIAN
WARREN SILURIAN
WARREN DEVONIAN-SILURIAN
WARREN ORDOVICIAN
WARREN CAMBRIAN
WARREN PRECAMBRIAN
WARREN UNDESIGNATED
WARREN UNDESIGNATED GAS
WARREN UNDESIGNATED OIL
WARREN UNDESIGNATED OIL AND GAS
WARREN UNDESIGNATED PRECAMBRIAN
WARREN UNDESIGNATED PERMIAN
WARREN UNDESIGNATED PENNSYLVANIAN
WARREN UNDESIGNATED PERMO-PENNSYLVANIAN
WARREN UNDESIGNATED SILURIAN
WARREN UNDESIGNATED DEVONIAN
WARREN UNDESIGNATED ORDOVICIAN
WARREN UNDESIGNATED CAMBRIAN
WARREN UNDESIGNATED PRECAMBRIAN
WARREN UNDESIGNATED PERMIAN
WARREN UNDESIGNATED PENNSYLVANIAN
WARREN UNDESIGNATED PERMO-PENNSYLVANIAN
WARREN UNDESIGNATED SILURIAN
WARREN UNDESIGNATED DEVONIAN
WARREN UNDESIGNATED ORDOVICIAN
WARREN UNDESIGNATED CAMBRIAN
WARREN UNDESIGNATED PRECAMBRIAN

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

MICROLATEROLOG

COMPANY THE IBEX CO.

WELL TXL # 1

FIELD NORTH MASON

LOCATION SEC. 3, BLK. 55

T & P SURVEY

COUNTY LOVING

STATE TEXAS

Location of Well
330' fr. S&E/L, NE/4, Sec. 3, Blk. 55, T&P Survey

MLL-GR (LL)

Elevation: D.F. K.B. 3094 or G.L. 3080

FILING No.

COUNTY LOVING
FIELD or LOCATION NORTH MASON
WELL NORTH TXL # 1
COMPANY THE IBEX CO.

RUN No.	1
Date	7-2-54
First Reading	4128
Last Reading	4020
Feet Measured	108
Csg. Schlum.	— — —
Csg. Driller	1030
Depth Reached	4131
Bottom Driller	4131
Depth Datum	KB 13' ABOVE GL
Mud Nat.	GEL-CHEM, INTERMIX, CRUDE OIL
" Density	10.7
" Viscosity	47
" Resist.	100 78 F @ F
" Res. BHT	.07@109 F @ F
" pH	@ F @ F
" Wtr. Loss	& CC 30 min. CC 30 min.
Max. Temp. °F	109
Bit Size	7 7/8"
Opr. Rig Time	4 Hrs.
Truck No.	STA #110
Recorded By	LINDLEY
Witness By	MURELL

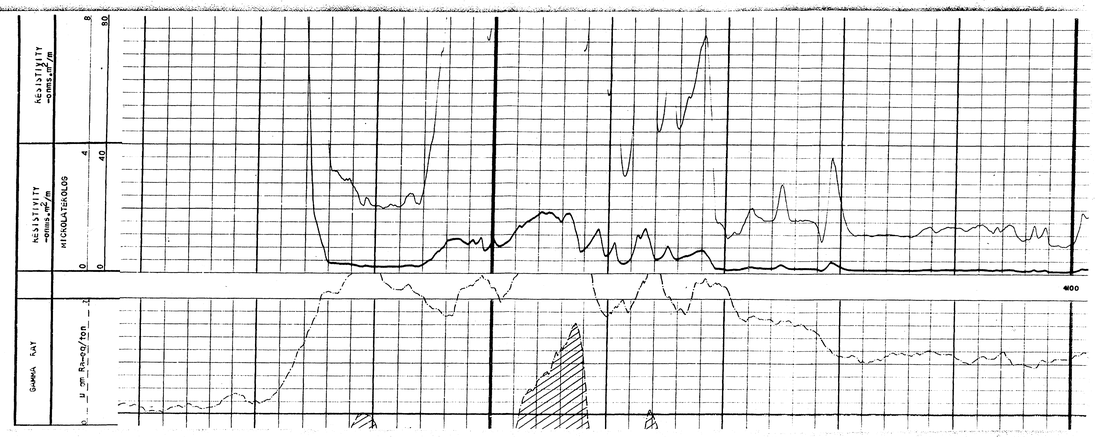
REMARKS

RESISTIVITY ohms m²/m — 0 to 8 / 0 to 80

RESISTIVITY ohms m²/m MICROLATEROLOG — 0 to 4 / 0 to 40

GAMMA RAY — 0 to 2 μ gm Ra eq/ton

4100 4128 4130



SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

Case 782 3-3

LATEROLOG - GAMMA RAY

COMPANY THE IBEX COMPANY

WELL North TXL # 1

FIELD NORTH MASON

LOCATION SEC. 3, BLK. 55

T & P SURVEY

COUNTY LOVING

STATE TEXAS

Location of Well
330' fr. S&E/L, NE/4, Sec. 3, Blk. 55, T&P Survey

LL-GR (MLL)

Elevation: D.F. K.B. 3094 or G.L. 3080

FILING No.

COUNTY LOVING
FIELD or LOCATION NORTH MASON
WELL North TXL # 1
COMPANY THE IBEX COMPANY

RUN No.	1
Date	7-23-54
First Reading	4127
Last Reading	4020
Feet Measured	107
Csg. Schlum.	— — —
Csg. Driller	1030
Depth Reached	4131
Bottom Driller	4131
Depth Datum	KB 13' ABOVE GL
Mud Nat.	GEL-CHEM, INTERMIX, CRUDE OIL
" Density	10.7
" Viscosity	47
" Resist.	100 @ 75 F @ F
" Res. BHT	.07 @ 109 F @ F
" pH	@ F @ F
" Wtr. Loss	& CC 30 min. CC 30 min.
Max. Temp. °F	109
Bit Size	7 7/8"
	15"LL-7
Opr. Rig Time	2 Hrs.
Truck No.	STA #110
Recorded By	LINDLEY
Witness By	MURELL

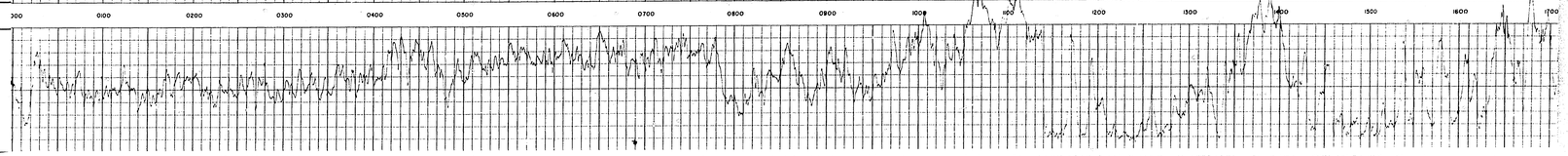
REMARKS

RESISTIVITY ohms m²/m — 0 to 8 / 0 to 80

RESISTIVITY ohms m²/m MICROLATEROLOG — 0 to 4 / 0 to 40

GAMMA RAY — 0 to 2 μ gm Ra eq/ton

0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700



SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

Case 782 4-4

MICROLATEROLOG-GAMMA RAY

COMPANY THE IBEX COMPANY

WELL NORTH TXL #2

FIELD NORTH MASON

LOCATION SEC. 3, BLK. 55

T & P SURVEY

COUNTY LOVING

STATE TEXAS

Location of Well
330'FSL 1650'FEL NE/4 SEC. 3, BLK. 55 T&P SURVEY

MLL-GRL

Elevation: D.F. 3086.6 K.B. 3081.6 or G.L. 3075

FILING No.

COUNTY LOVING
FIELD or LOCATION NORTH MASON
WELL NORTH TXL #2
COMPANY THE IBEX COMPANY

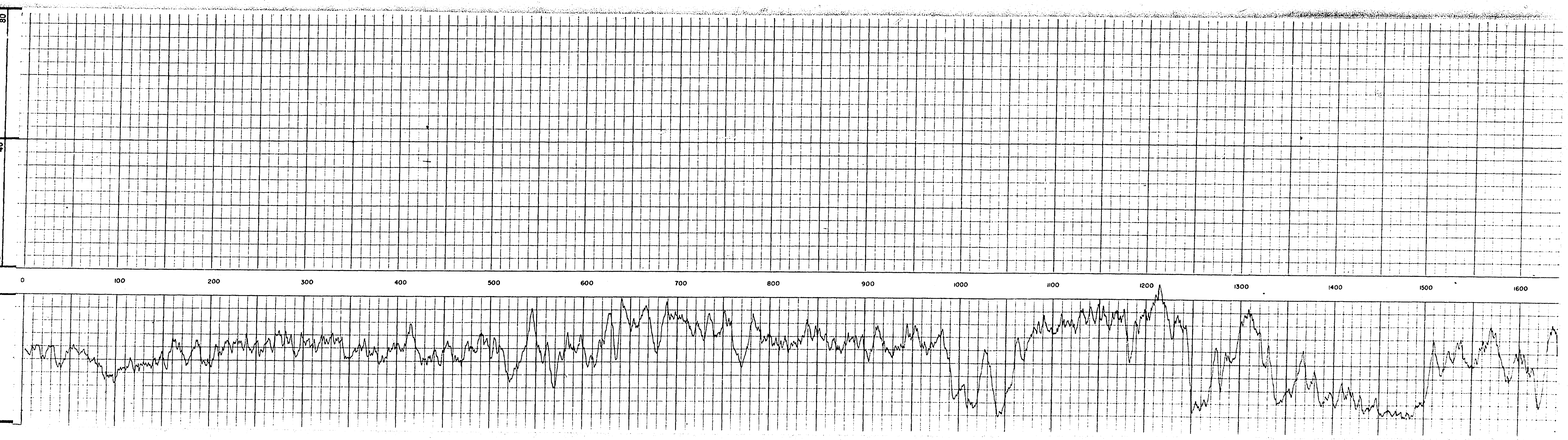
RUN No.	1-MLL	1-GRL
Date	7-31-54	7-31-54
First Reading	4057	4057
Last Reading	3950	0
Feet Measured	107	4057
Csg. Schlum.		
Csg. Driller	1000	1000
Depth Reached	4060	4060
Bottom Driller	4062	4062
Depth Datum	KB	
Mud Nat.	Imperial x-Crude Oil	
" Density	10.5	
" Viscosity	55	
" Resist.	0106 @ 83F @ °F	
" Res. BHT	0105 @ 98F @ °F	
" pH	— @ °F @ °F	
" Wtr. Loss	24cc 30 min.	CC 30 min.
Max. Temp. °F	98	
Bit Size	7 7/8"	
Specs.	9/16"x9/16"x9/16"	
Opr. Rig Time	2 Hrs.	2 Hrs.
Truck No.	603 - Kermit	
Recorded By	Quillin	Quillin
Witness By	Keough	Keough

REMARKS

RESISTIVITY ohms m²/m 9/16"x9/16"x9/16" MLL — 0 to 4 / 0 to 40

GAMMA RAY U GM RA-EQ/TON — 0 to 6

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600



506

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON TEXAS

SCHLUMBERGER

MICROLATEROLOG

COMPANY	THE IBEX CO.
	North
WELL	TXL # 1
FIELD	NORTH MASON
LOCATION	SEC.3, BLK.55
	T & P SURVEY
COUNTY	LOVING
STATE	TEXAS

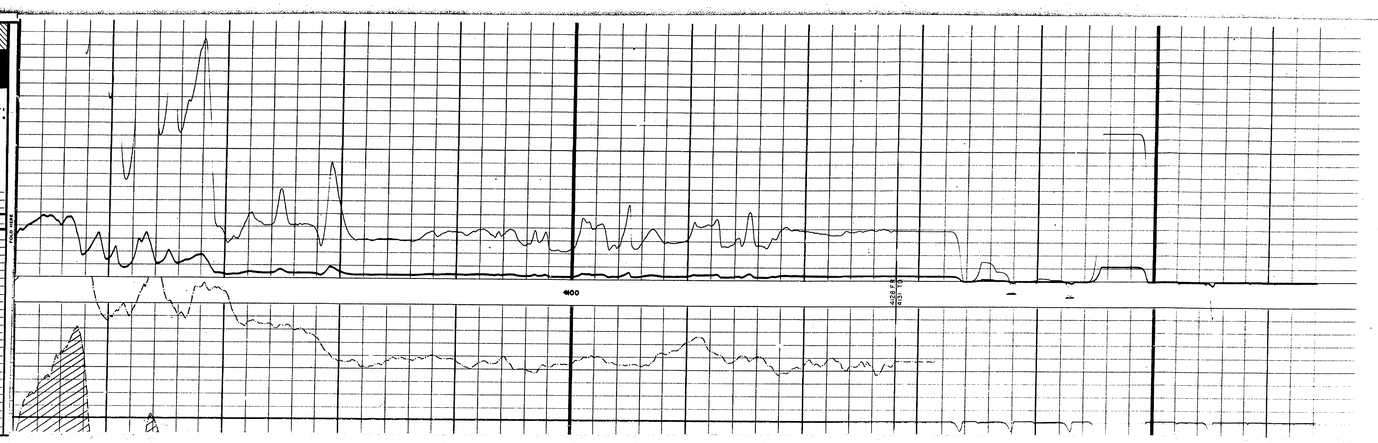
Location of Well
330' fr. S&E/L, NE/4, Sec.3, Blk. 55, T&P Survey
HLL-DR. (LL)

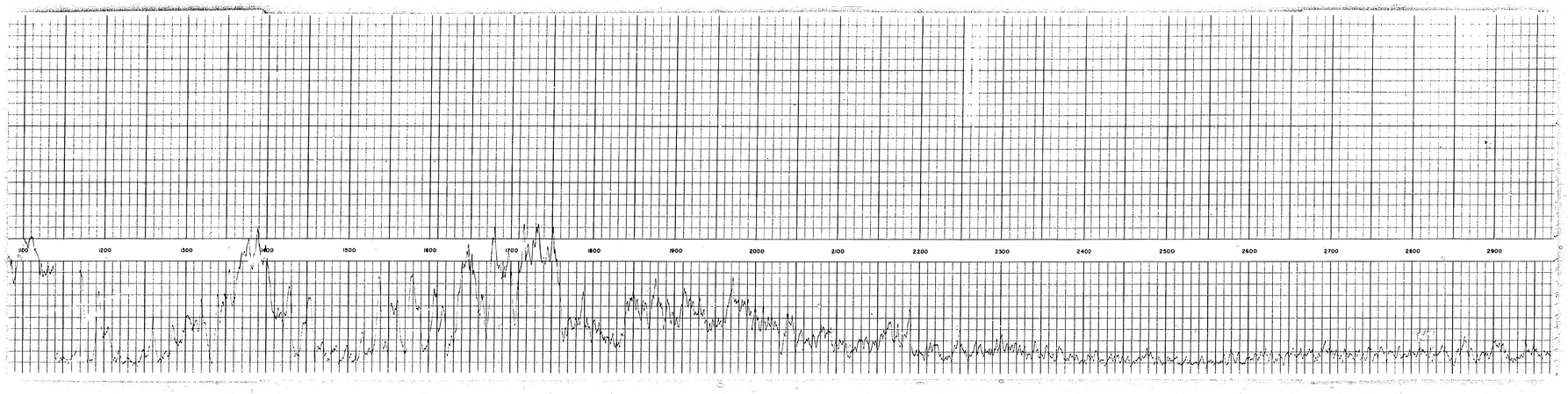
Elevation: D.F.: K.B. 3094 or G.L. 3080

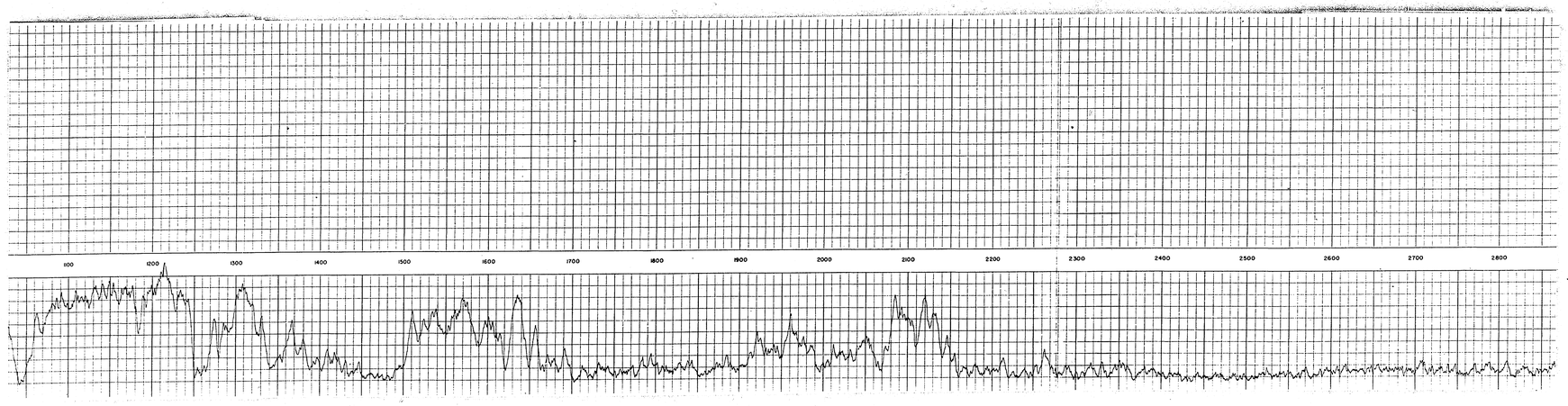
FILING No.

COUNTY	LOVING
FIELD or LOCATION	NORTH MASON
WELL	TXL # 1
COMPANY	THE IBEX CO.

RUN No.	1
Date	7-3-54
First Reading	4128
Last Reading	4020
Feet Measured	108
Csg. Schlum.	- - -
Csg. Driller	1030
Depth Reached	4131
Bottom Driller	4131
Depth Datum	KB 13' ABOVE GL
Mud Nat.	ZEOSEL, INFERMIX, CRUDE OIL
" Density	10.7
" Viscosity	47
" Resist.	.106 78 F @ F
" Res. BHT	.07 @ 109 F @ F
" pH	@ F @ F
" Wtr. Loss	4 CC 30 min. CC 30 min.
Max. Temp. °F	109
Bit Size	7 7/8"
Opr. Rig Time	4 HRS.
Truck No.	574 MID
Recorded By	LINDLEY
Witness By	NO HELP







507

2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
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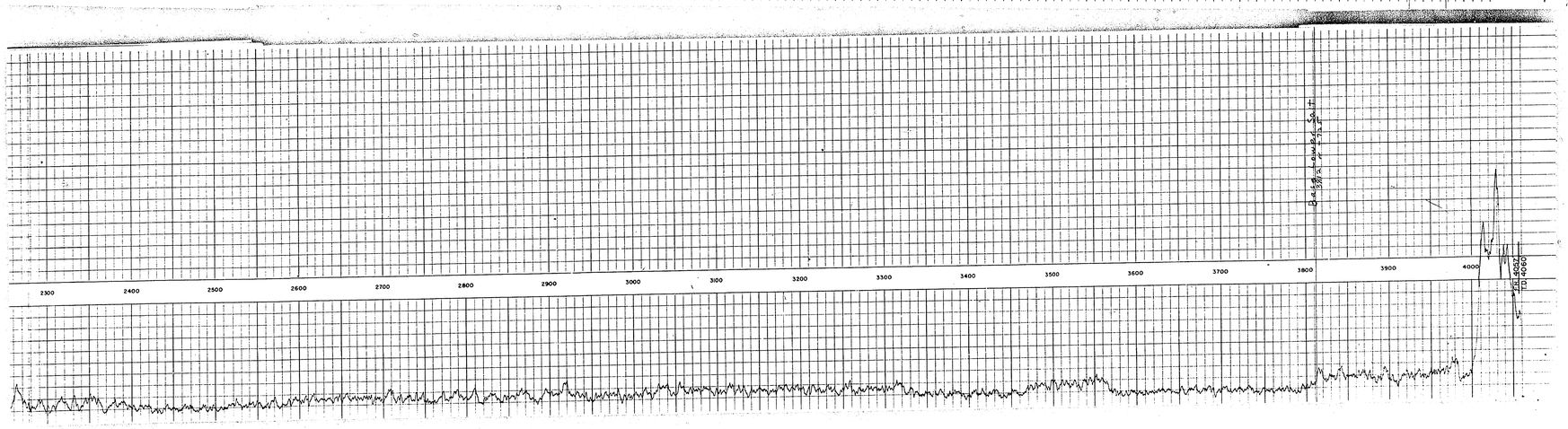
3900
4000
4100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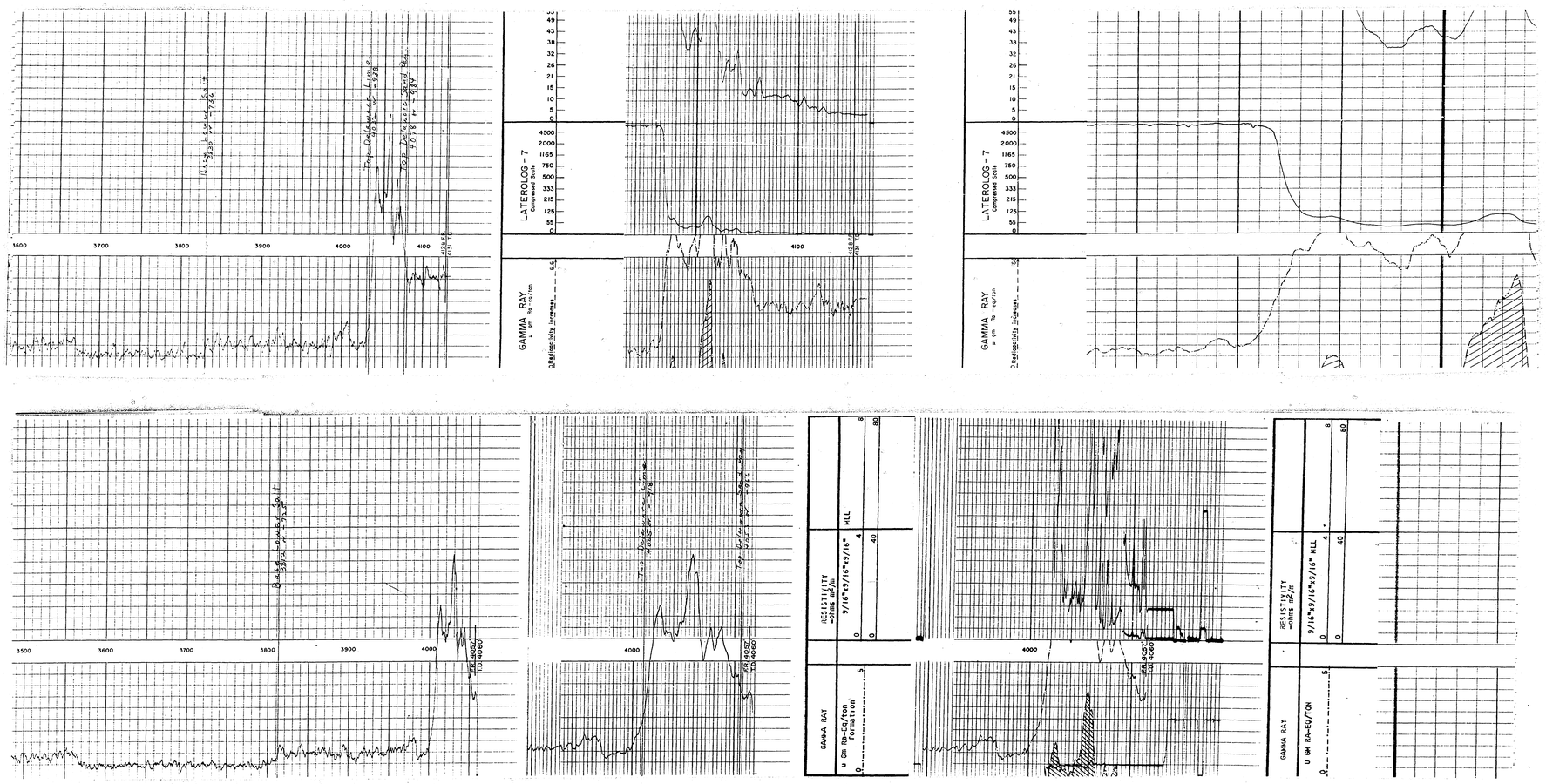
3900
4000

508


LATEROLOG - 7
Compressed Scale
GAMMA RAY
RESISTIVITY
-ohms m²/m
9/16"x9/16"x9/16" MLL
GAMMA RAY
U GM RA-EQ/TON
Formation

509

SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Case 782 5 3
LATEROLOG - GAMMA RAY

COMPANY THE IBEX COMPANY
WELL North TXL 2 1
FIELD NORTH MASON
LOCATION SEC. 3, BLK. 55
T & P SURVEY
COUNTY LOVING
STATE TEXAS

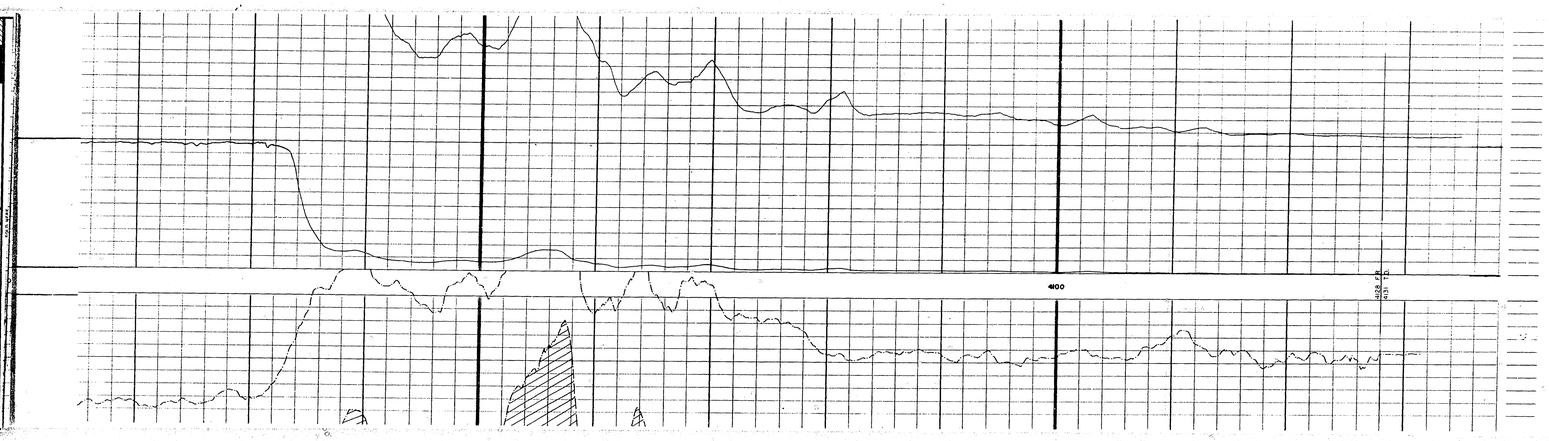
Location of Well
330' fr. sse/L, ne/4 sec. 3, blk. 55, T&P survey
LL-GR (MLL)

Elevation: D.F.
K.B. 3094
or G.L. 3080

FILING No.

COUNTY LOVING
FIELD or LOCATION NORTH MASON
WELL NORTH TXL #2
COMPANY THE IBEX COMPANY

RUN No.	1
Date	1-2/3-54
First Reading	4171
Last Reading	4020
Feet Measured	107
Csg. Schlum.	- - -
Csg. Driller	1030
Depth Reached	4131
Bottom Driller	4131
Depth Datum	Kg 13' ABOVE GL
Mud Nat.	ZEOGEL, INTERFILL, SAND - OIL
" Density	10.7
" Viscosity	47
" Resist.	1.0 @ 76° F @ °F
" Res. BHT	1.7 @ 109°F @ °F
" pH	@ °F @ °F
" Wtr. loss	& CC 30 min. CC 30 min.
Max. Temp. °F	109
Bit Size	7 7/8"
	13"LL-7
Opr. Rig Time	2 Hrs.
Truck No.	514-512
Recorded By	LINDELL
Witness By	W. SHELLE



COUNTY LOVING
FIELD or LOCATION NORTH MASON
WELL TXL 2
COMPANY THE IBEX CO.

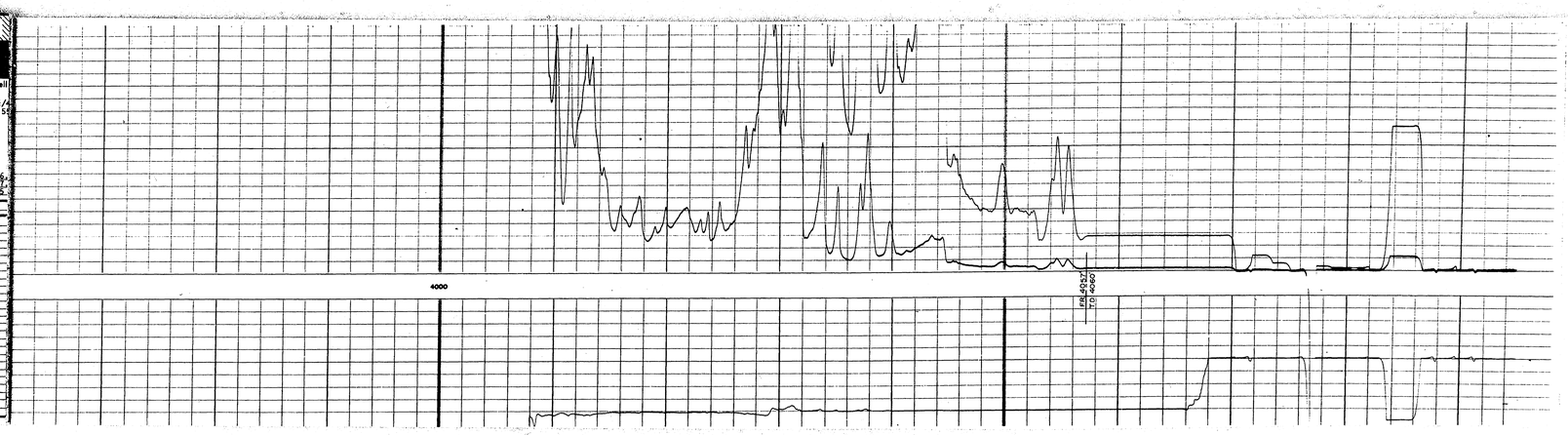
SCHLUMBERGER WELL SURVEYING CORPORATION
HOUSTON, TEXAS

Case No. 66
MICROLATEROLOG-GAMMA RAY

COMPANY THE IBEX COMPANY
WELL NORTH TXL #2
FIELD NORTH MASON
LOCATION SEC. 3, BLK. 55
T & P SURVEY
COUNTY LOVING
STATE TEXAS

Location of Well
330'FSL
1650'FEL NE/4
SEC. 3, BLK. 55
T&P SURVEY
MLL-GRL
Elevation: D.F. 3086
K.B. 3087
or G.L. 3075
FILING No.

RUN No.	1-MLL	1-GRL
Date	1-31-54	1-31-54
First Reading	4057	4057
Last Reading	3950	0
Feet Measured	107	4057
Csg. Schlum.		
Csg. Driller	1000	1000
Depth Reached	4060	4060
Bottom Driller	4062	4062
Depth Datum	KB	
Mud Nat.	Imbrenix-Crude Oil	
" Density	10.5	
" Viscosity	42	
" Resist.	0.06 @ 83F @ °F	
" Res. BHT	0.05 @ 98F @ °F	
" pH	- @ °F @ °F	
" Wtr. loss	2.4CC 30 min. CC 30 min.	
Max. Temp. °F	98	
Bit Size	7 7/8"	
Spcgs.	9/16"x9/16"x9/16"	
Opr. Rig Time	2 Hrs.	2 Hrs.
Truck No.	603 - Kermit	
Recorded By	Quillia	Quillia
Witness By	Keaush	Keaush



THE IBEX COMPANY
NORTH TXL #2
NORTH MASON
LOVING CO., TEXAS

510

JAM:mr 11-2-54 (7)

MAIL OFFICE OCC

NOV 4 AM 8:33

BEFORE THE OIL CONSERVATION COMMISSION OF THE
STATE OF NEW MEXICO

IN THE MATTER OF THE APPLICATION OF)
AMERADA PETROLEUM CORPORATION FOR THE)
ESTABLISHMENT OF THREE PRORATION UNITS IN)
THE SE/4 SECTION 11, TOWNSHIP 13 SOUTH,) CASE NO. 798
RANGE 38 EAST, N.M.P.M., IN THE WOLFCAMP)
FORMATION OF THE BRONCO FIELD, LEA COUNTY,) ORDER NO. _____
NEW MEXICO, CONSISTING OF THE EAST 43.69)
ACRES OF SAID SE/4 AND THE NORTH AND SOUTH)
43.69 ACRES OF THE W/2 OF SAID SE/4, AND)
FOR ADJUSTMENT OF ALLOWABLE)

APPLICATION

COMES NOW, Amerada Petroleum Corporation, hereinafter called "Applicant," and alleges and states:

1. That applicant is the owner of oil and gas leases covering the SE/4 of Section 11, Township 13 South, Range 38 East, Lea County, New Mexico.

2. That applicant is drilling its Ward No. 4 Well located approximately 460 feet from the east line and 550 feet from the south line of said SE/4.

3. That applicant expects to complete said well as a producing oil well in the Wolfcamp formation of the Bronco Field, Lea County, New Mexico, found at the approximate depths of 9540 to 9750 feet in said well.

4. That the east line of said SE/4 coincides with the boundary line between New Mexico and Texas, and because of the adjustment of the survey on the east line, this quarter section contains only 131.07 acres.

5. That because of the size and shape of said quarter section, four 40-acre proration units substantially in the form of a square cannot be established in said SE/4.

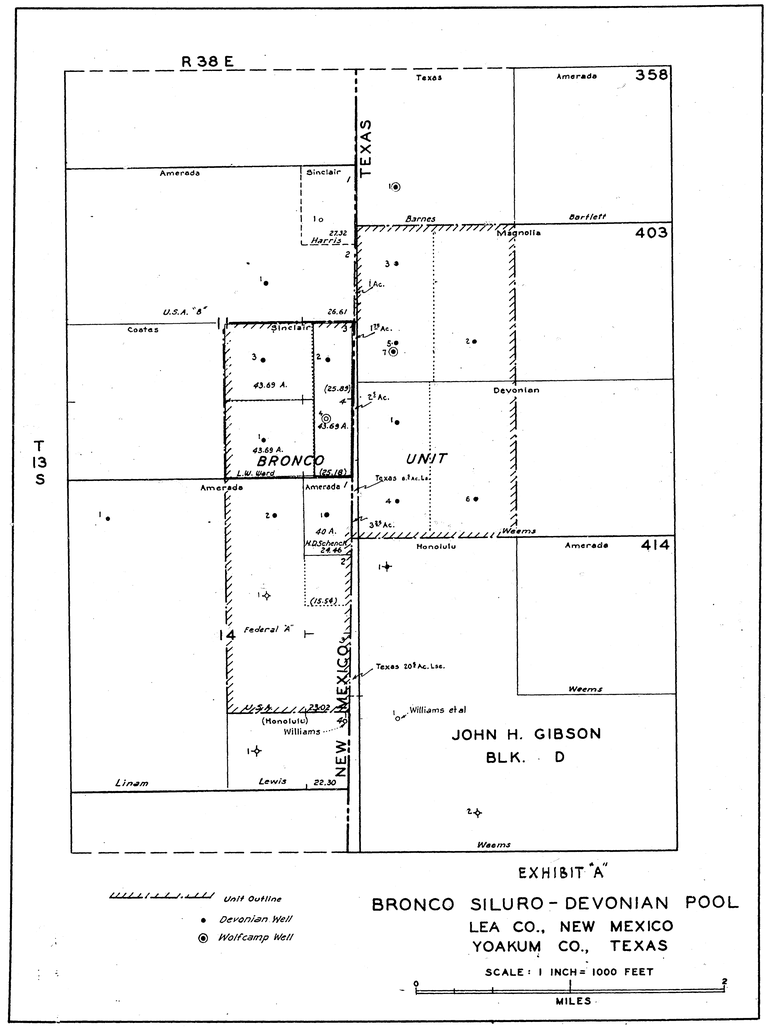
6. That applicant proposes the establishment of three proration units in said SE/4 consisting of the east 43.69 acres of said quarter section and the north and south 43.69 acres of the W/2 of said quarter section, all as shown on a plat marked Exhibit "A" and attached hereto, with adjustment of allowable in the proportion that 43.69 acres bears to the standard or orthodox proration unit.

7. The proration units and allowables proposed herein are in the interest of conservation and the protection of correlative rights.

WHEREFORE, applicant respectfully requests that this matter be set down for hearing, and that upon due notice and hearing, the Commission enter its order establishing three proration units in said SE/4 with allowable adjustment in the manner proposed herein.

John A. Woodward
Attorney for
Amerada Petroleum Corporation

511



THE WESTERN COMPANY

GAMMATRON

Simultaneous Radioactivity Log

LOCATION

COMPANY: ONIO OIL COMPANY

WELL: BERTHA BARBER WELL # 11

FIELD: MONUMENT BLINEBERRY

COUNTY: LEA STATE: N.M.

LOCATION: 990' FNL 330' FWL SEC. 5 T-20-S RANGE 27 E

FILE NO.

LOG NO. 1113

LOG MEAS. FROM: 1.5' ABOVE R.T. ELEV. 3576.5

DRIG. MEAS. FROM: 1.5' ABOVE R.T. ELEV. 3576.5

PERM. DATUM: 17' ABOVE R.H. ELEV 3560.5

COMPANY ONIO OIL CO.
WELL BERTHA BARBER WELL #11
FIELD MONUMENT BLINEBERRY
COUNTY LEA STATE N.M.
LOCATION 990' FNL 330' FWL SEC. 5 T-20-S RGE. 27 E.

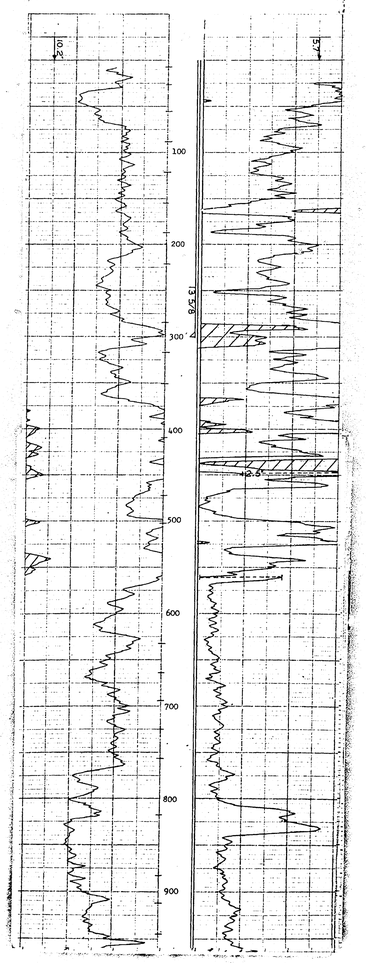
RUN NO.	ONE	ONE			
TYPE OF LOG	G/R	NEUTRON			
DATE	10-22-52	10-22-52			
TOTAL DEPTH (OPERATOR)	4716	4716			
EFFECTIVE DEPTH (OPERATOR)	4711	4711			
EFFECTIVE DEPTH (WESTERN)	4717	4717			
TOP OF LOGGED INTERVAL	SURF.	SURF.			
BOTTOM OF LOGGED INTERVAL	4705	4715			
TYPE OF FLUID IN HOLE	MUD	MUD			
FLUID LEVEL	FULL	FULL			
NEUTRON SOURCE TYPE		400N			
SOURCE SPACING ___IN.		3.25			
LENGTH OF DETECTOR ___IN.	10	8.1			
O.D. OF INSTRUMENT ___IN.	1 5/8	1 5/8			
TIME CONSTANT ___SEC.	2	4A			
LOGGING SPEED ___FT./MIN.	~~20~~ 65	~~20~~ 35			
STATISTICAL VARIATION ___IN.	~~5~~ 2	~~5~~ 2			
SENSITIVITY REFERENCE	274	275			
RECORDED BY	NICHOLSON				
WITNESSED BY	KERLEY JR.				

CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.-LB.	INTERVAL FROM WELL RECORD		INTERVAL FROM RA LOG	
ONE		11 5/8		SURF.	TO 302		TO
ONE		8 5/8		SURF.	TO 2827		TO
ONE		5 1/2		SURF.	TO 5714		TO
					TO		TO
					TO		TO

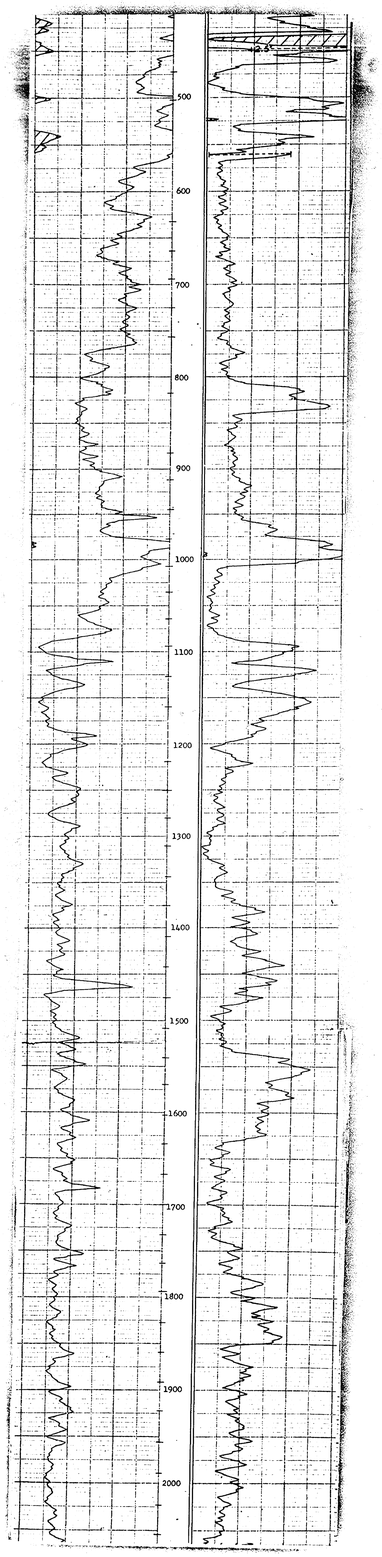
REMARKS

GAMMA RAY	NEUTRON
RADIATION INTENSITY INCREASES →	RADIATION INTENSITY INCREASES →



512

513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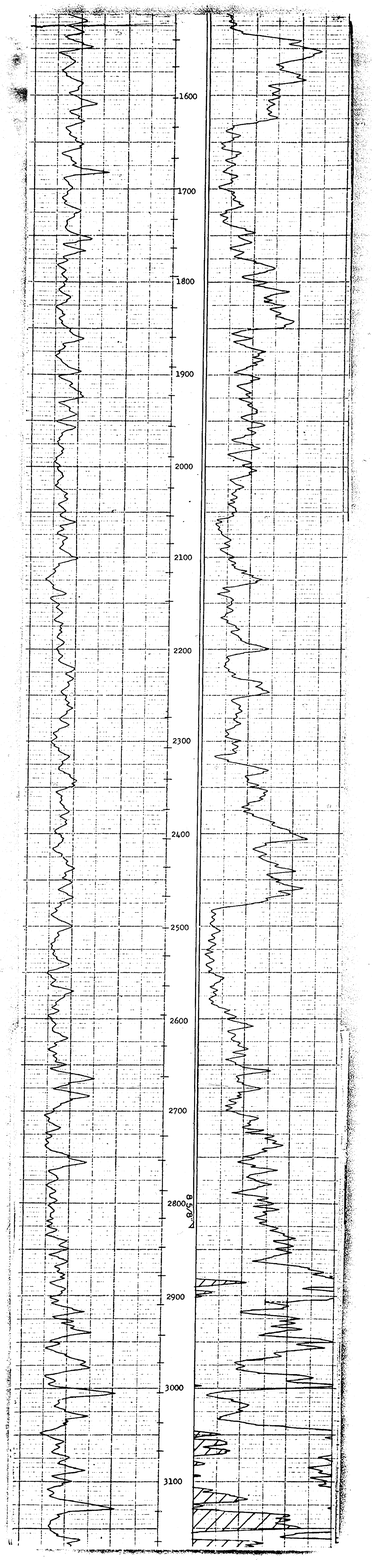
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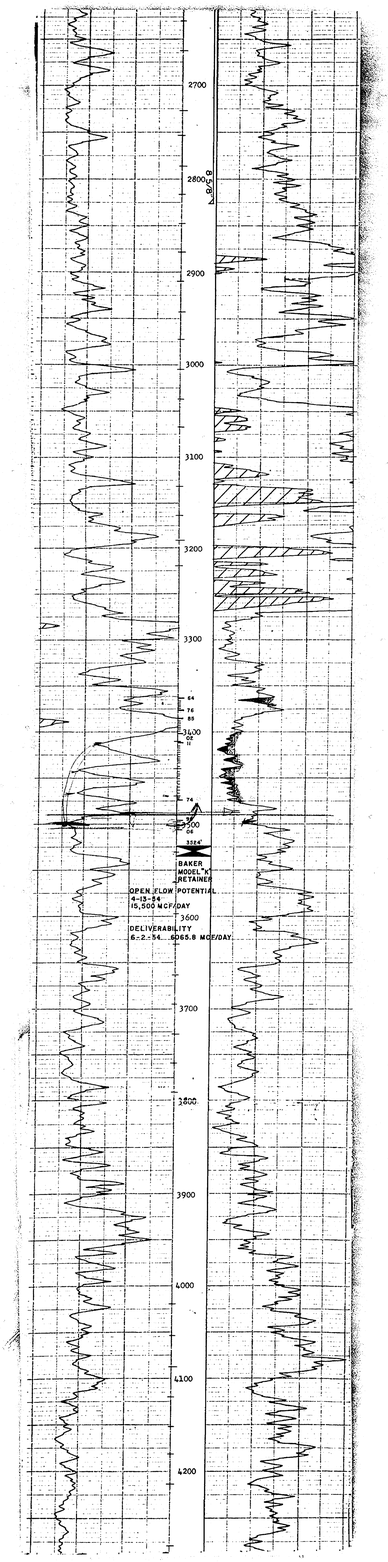
2700
2800
2900
3000
3100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2900
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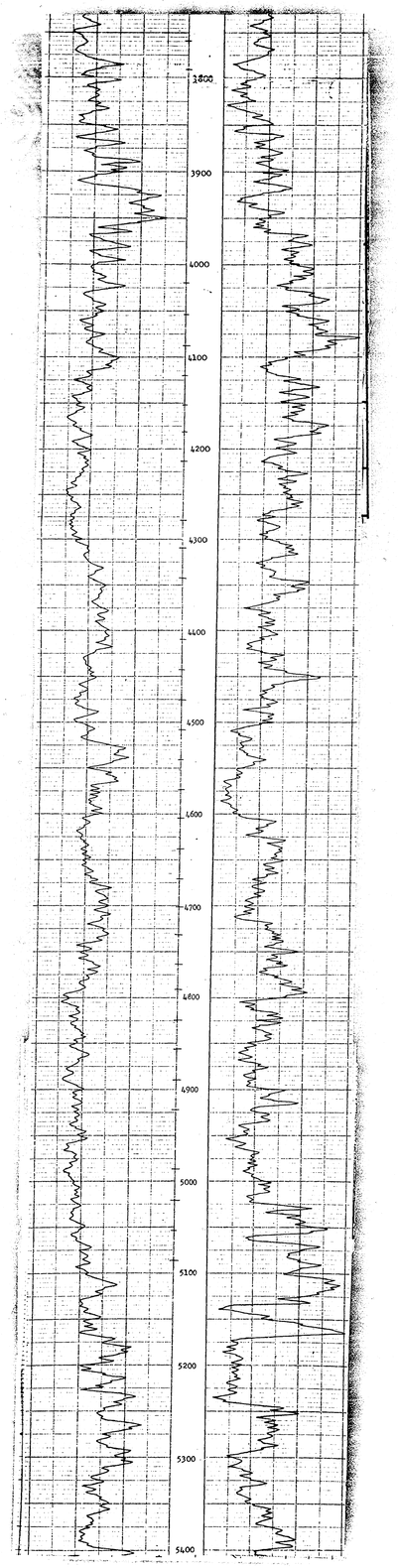
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100
4200
64
76
89
74
3324'
BAKER
MODEL "K"
RETAINER
OPEN FLOW POTENTIAL
4-13-54
15,500 MCF/DAY
DELIVERABILITY
6-2-54 6065.8 MCF/DAY

515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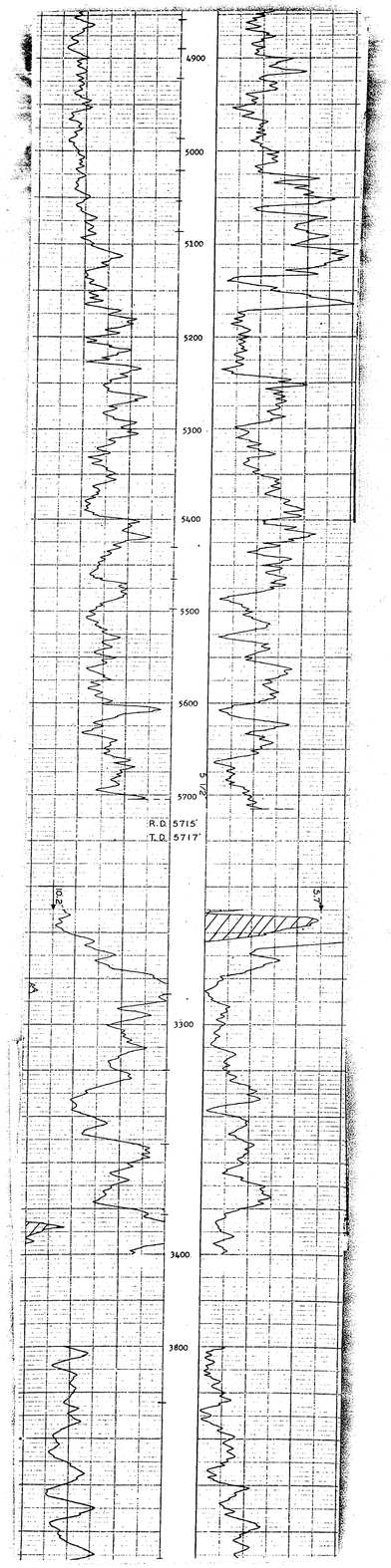
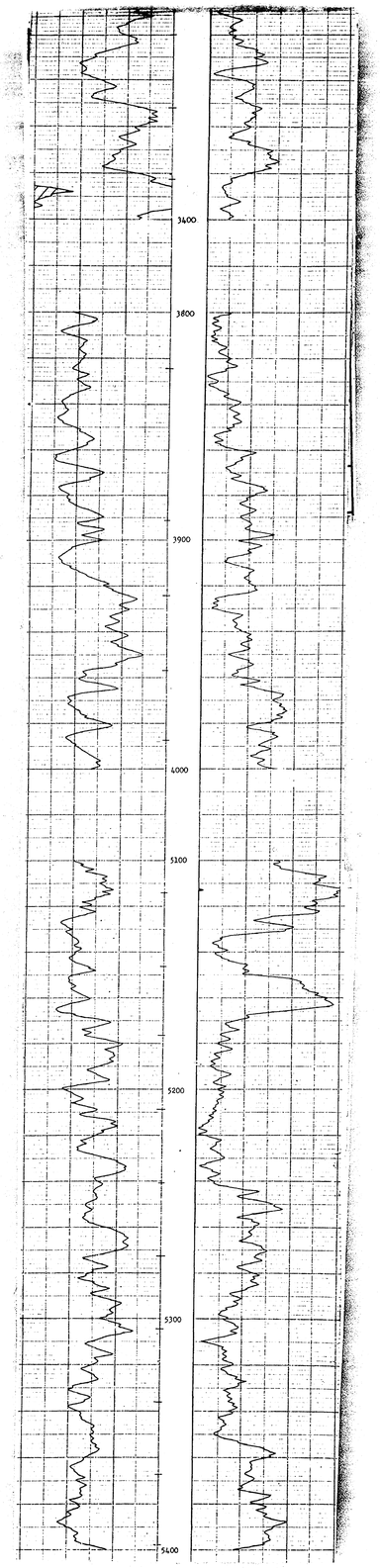
5300
5400

516

517


4900
5000
5100
5200
5300
5400
5500
5600
5700
R.D. 5715'
T.D. 5717'
3300
3400
3800



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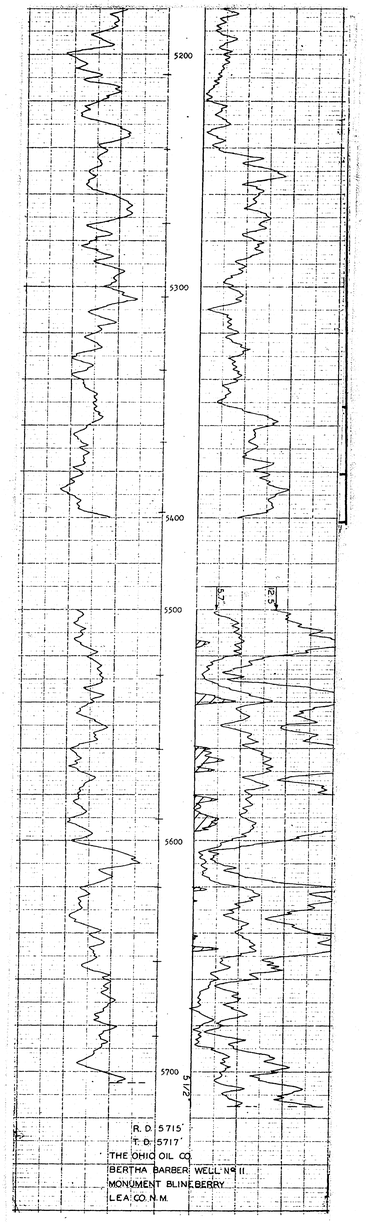
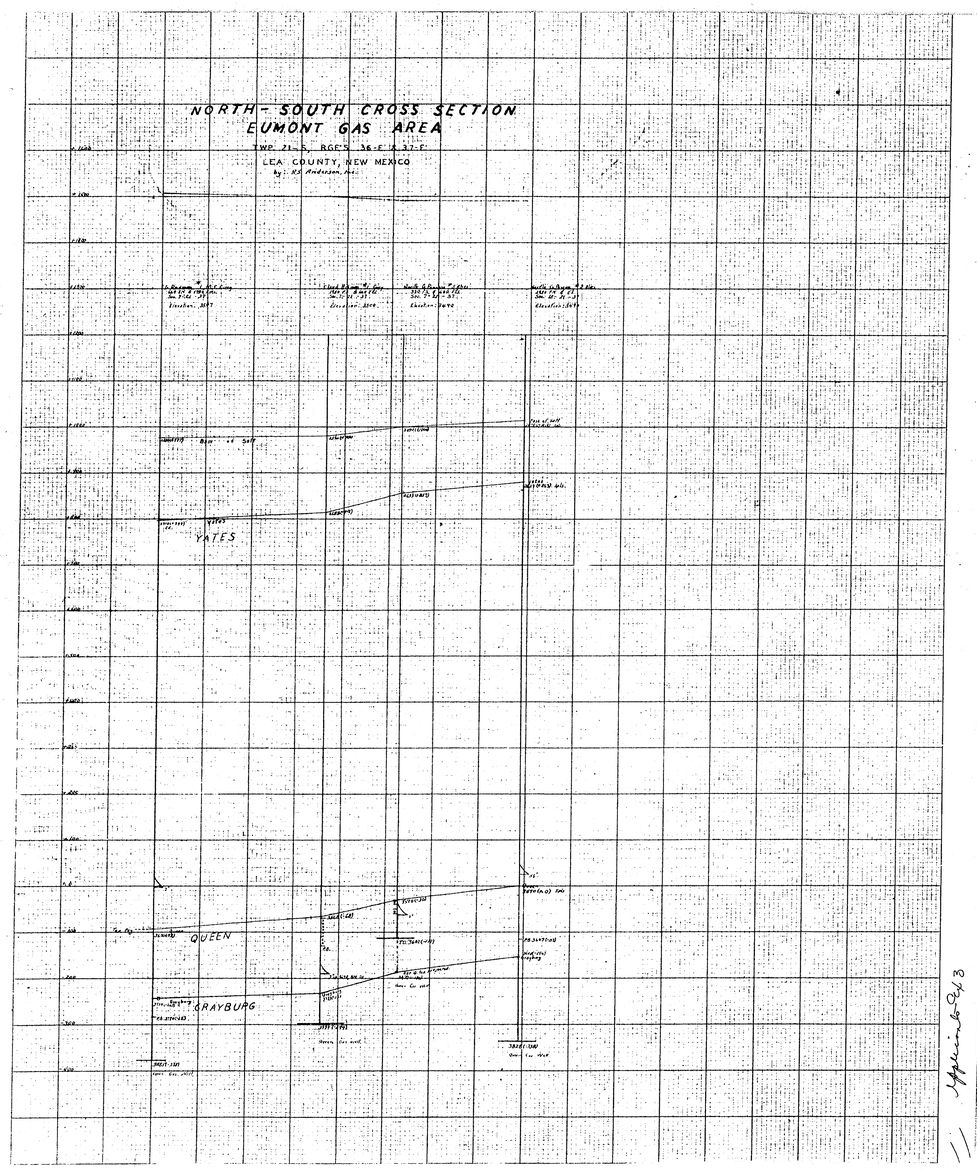

5200
5300
5400
5500
5600
5700
R. D. 5715'
T. D. 5717'
THE OHIO OIL CO.
BERTHA BARBER WELL Nº 11
MONUMENT BLINEBERRY
LEA CO. N.M.

NORTH - SOUTH CROSS SECTION
EUMONT GAS AREA

TWP. 21 - S, RGE'S. 36 - E & 37 - E

LEA COUNTY, NEW MEXICO

by: R.S. Anderson, Inc.

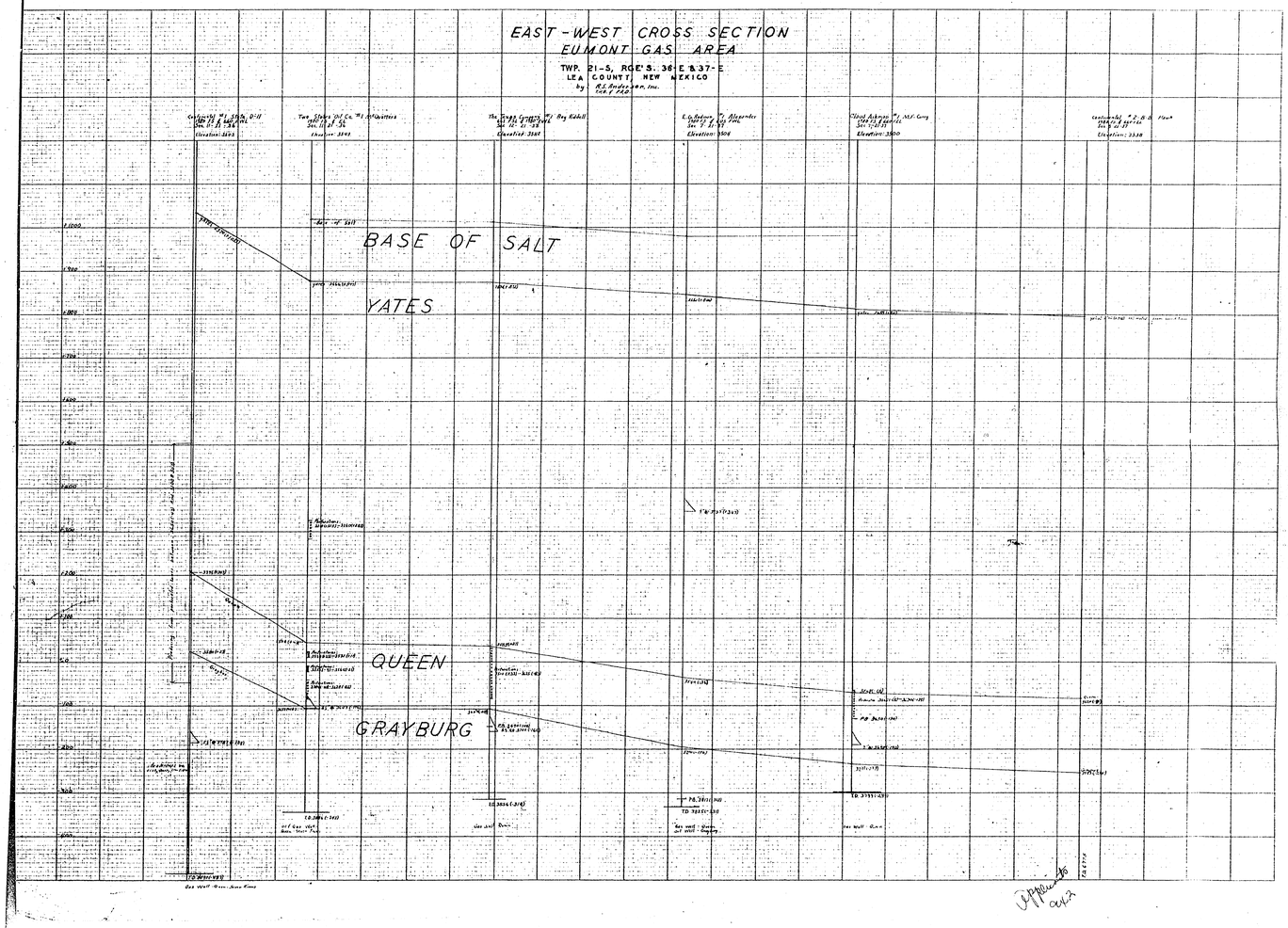


EAST - WEST CROSS SECTION
EUMONT GAS AREA

TWP. 21-S, RGE'S. 36-E & 37-E

LEA COUNTY, NEW MEXICO

by R.S. Anderson, Inc.



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