Case No.
673
Large Exhibits

Gulf Gas 673 Case

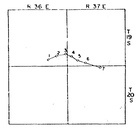
EAST - WEST STRATIGRAPHIC SECTION

THROUGH MONUMENT FIELD
LEA COUNTY, NEW MEXICO

MAY 5, 1954

SCALE

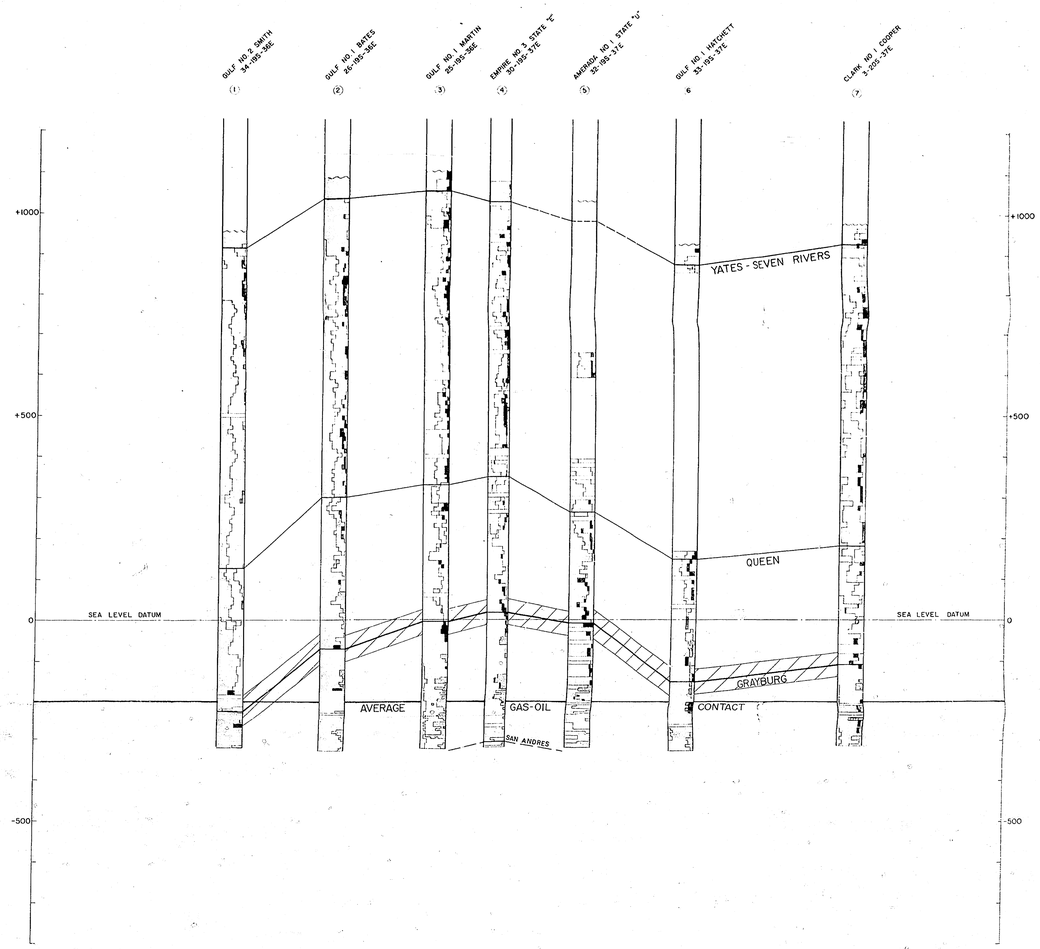
HORIZONTAL SCALE ——— 1 INCH = 2000 FEET
VERTICAL SCALE ——— 1 INCH = 100 FEET

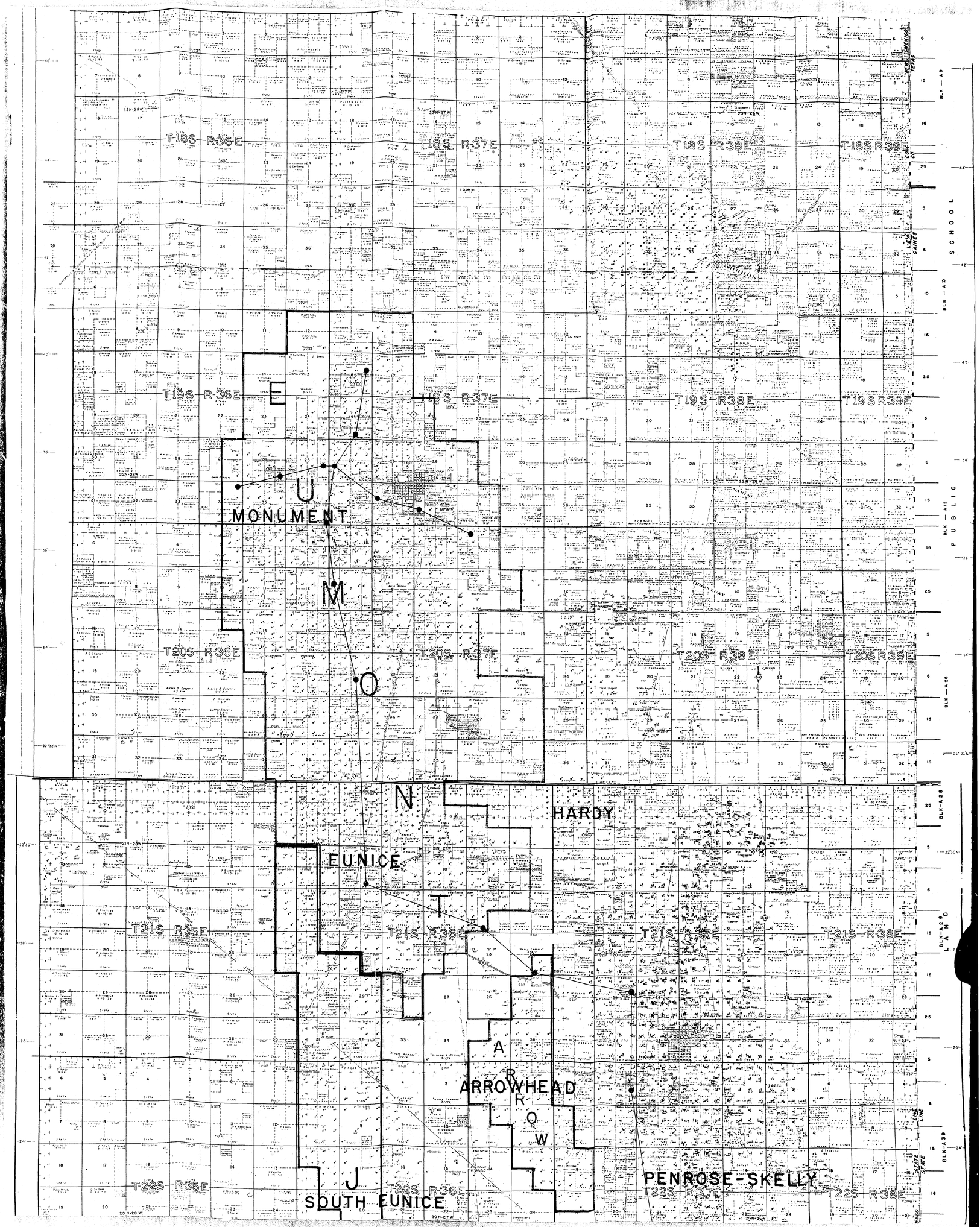


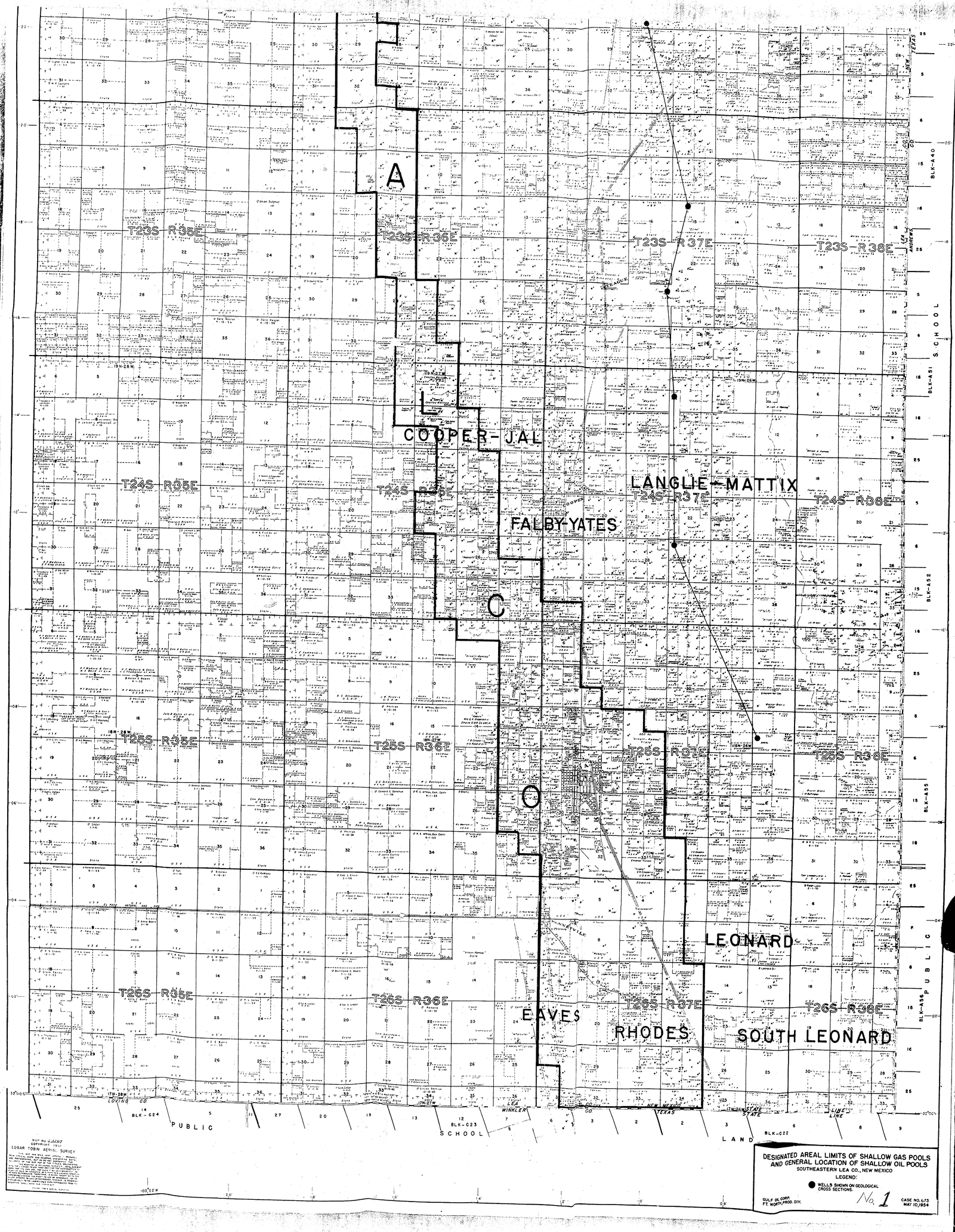
LEGEND

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

No. 3




T18S R36E
T18S R37E
T18S R38E
T18S R39E
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
E
U
MONUMENT
M
O
N
HARDY
EUNICE
T
A
R
ARROWHEAD
R
O
W
J
SOUTH EUNICE
PENROSE-SKELLY
SCHOOL
PUBLIC
LAND



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 DIV.

No. 1

CASE NO. 673
MAY 10, 1954

Map No. U.S.G.S.
COPYRIGHT 1951
EDGAR TOBIN AERIAL SURVEYS

AREAS IN EUNICE-MONUMENT AND ARROWHEAD POOLS WHERE COMPARISONS OF RESERVOIR PRESSURES WERE MADE

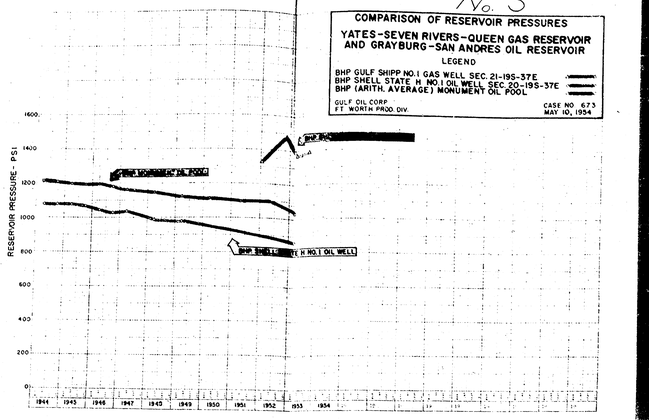
SOUTHEASTERN LEA CO., NEW MEXICO

GULF OIL CORP.
FT. WORTH PROD. DIV.

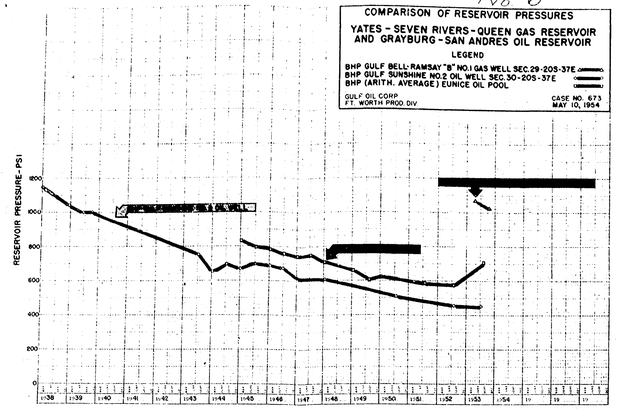
CASE NO. 673
EXH. NO. 4

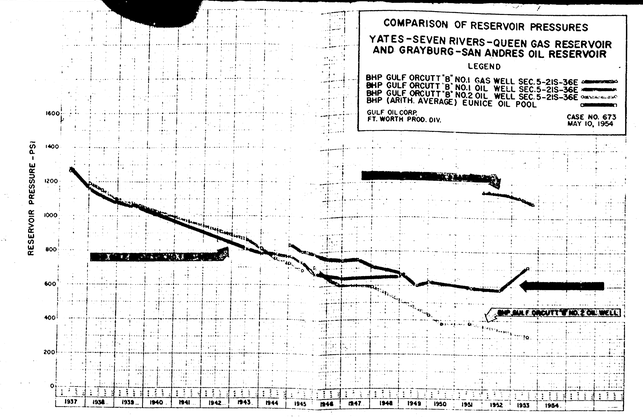
T19S R37E
T19S R38E
T20S R37E
T20S R38E
T19S R36E
T20S R36E
T21S R36E
T22S R36E
T21S R35E
T22S R35E

No. 5



No. 6





No. 8

No. 9

No. 10

No. 11

RECOMMENDED GAS POOL BOUNDARIES
SOUTHEAST LEA COUNTY, NEW MEXICO

CONTINENTAL OIL COMPANY
PRODUCTION DEPARTMENT

DRAWN	8-14-58	SCALE	1 400'
TRACED		DATE	
APPROVED			
APPROVED			

BASE MAP OBTAINED FROM
JIMGERY MAPPING CO.

Conoco
Exh No. 2

R36E R37E R38E

AREA 4 AREA 3 AREA 2 AREA 1

T 19 S T 20 S T 21 S T 22 S T 23 S T 24 S

33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51

STATE OF TEXAS — COUNTY OF ANDREWS

WINKLER CO.
ANDREWS
LOVING
PECOS
WARD
REEVES
WINKLER
LOVING
PECOS
STATE
AREA 2
AREA 1
T 40 S
T 41 S
T 42 S
T 43 S
T 44 S
R 36 E
R 37 E
45
46
47
48
49
50
51
52
53
54
55
56
57

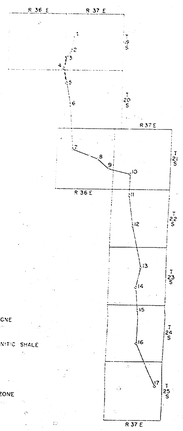
NORTH - SOUTH STRATIGRAPHIC SECTION

THROUGH SOUTHEASTERN NEW MEXICO

APRIL 7, 1954

SCALE

HORIZONTAL SCALE ——— INCH = 2000 FEET
VERTICAL SCALE ——— INCH = 20 FEET

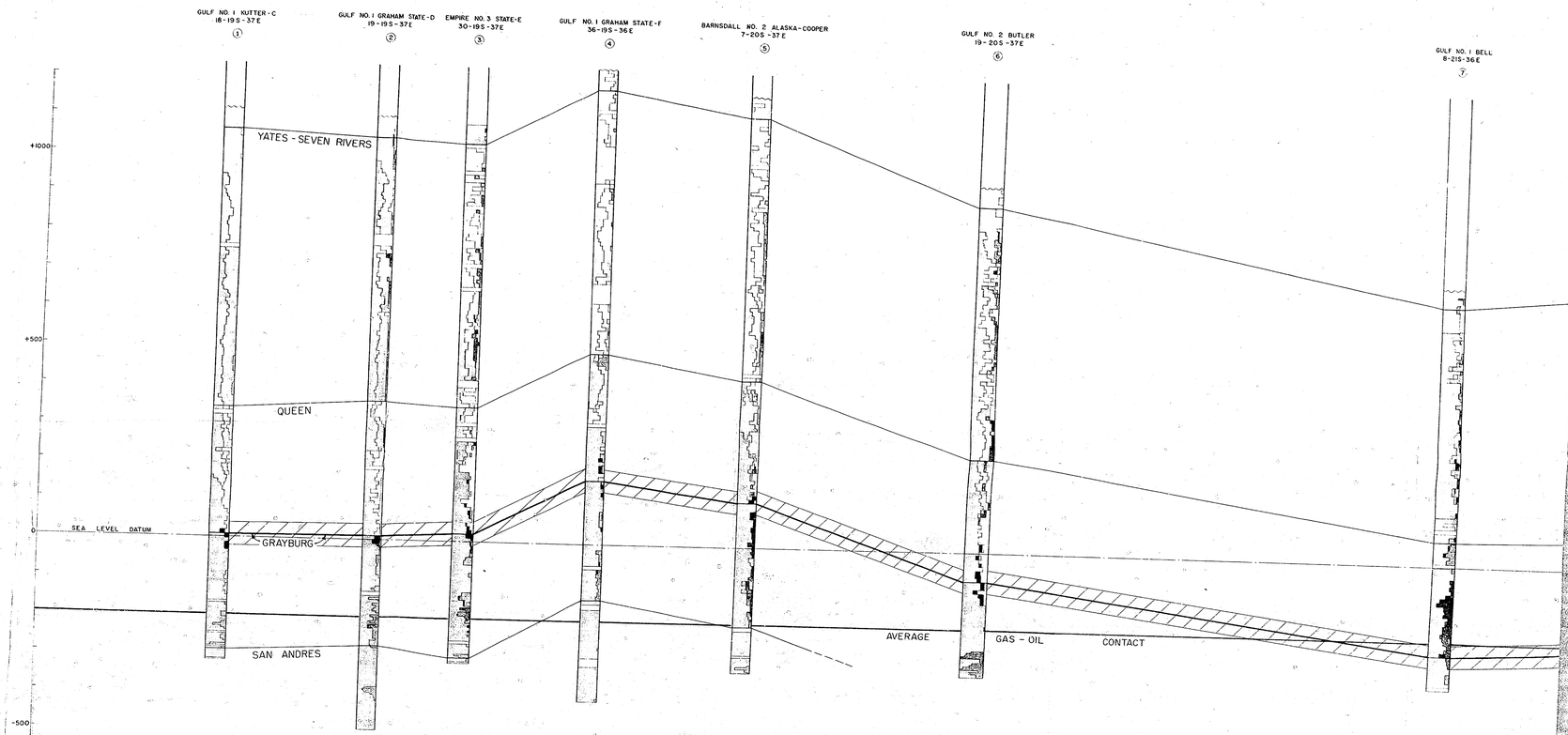


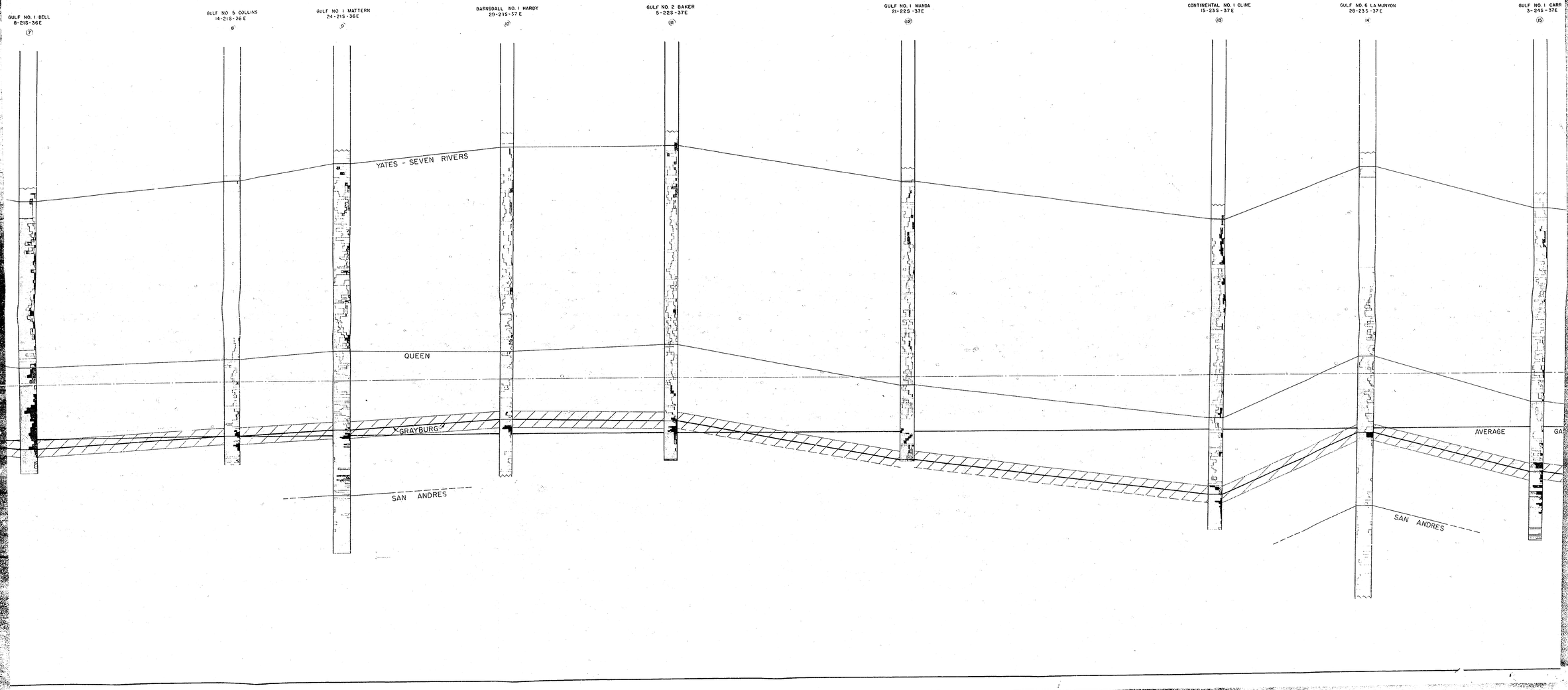
LEGEND

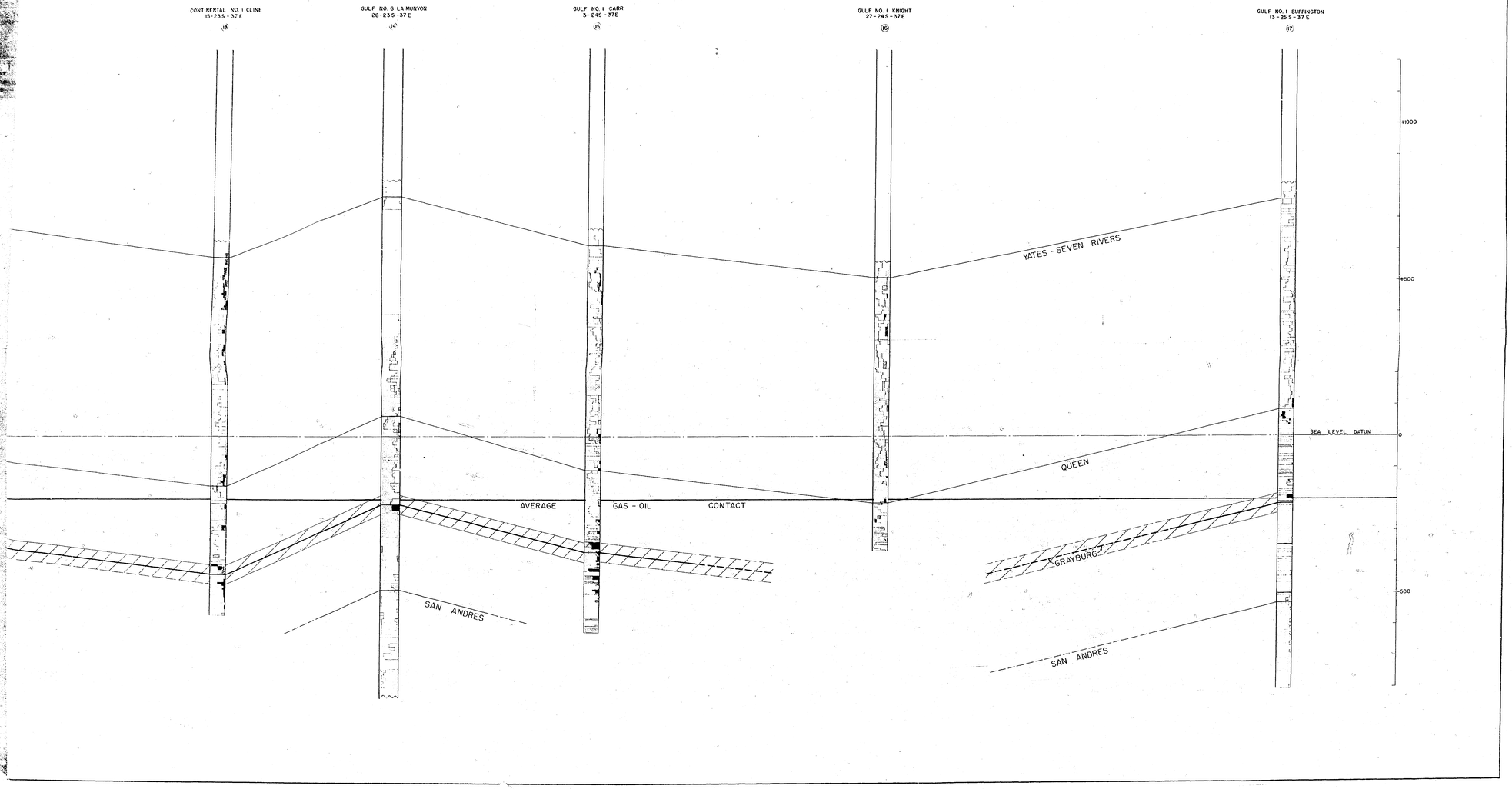
- RED BED
- SANDSTONE
- ANHYDRITE
- DOLOMITE OR LIMESTONE
- DOLOMITIC SAND
- BENTONITE OR BENTONITIC SHALE
- OTHER SHALE

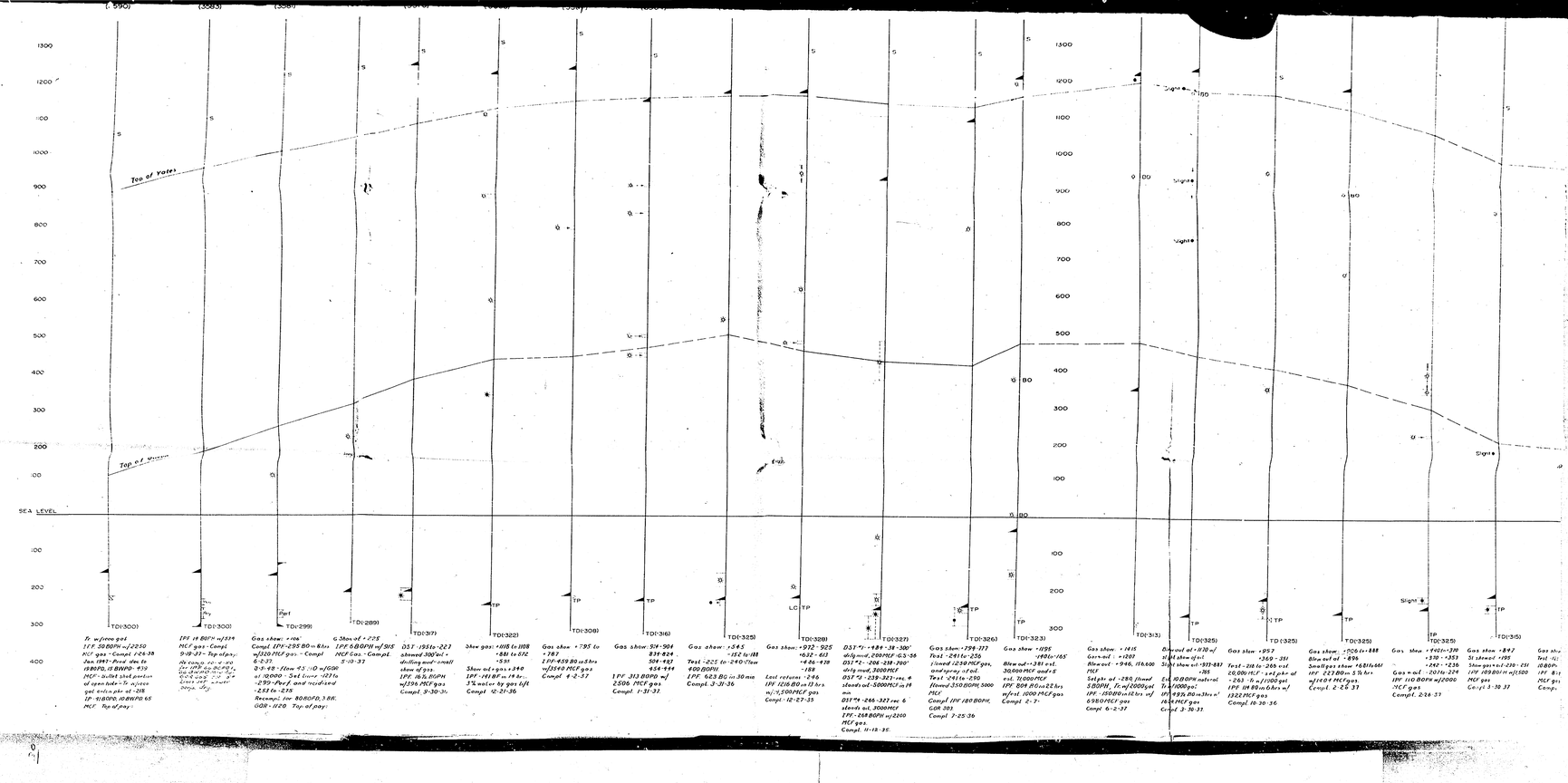
IMPERVIOUS ZONE

No. 2




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
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
YATES - SEVEN RIVERS
QUEEN
GRAYBURG
SAN ANDRES
AVERAGE
SAN ANDRES


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)
GULF NO. 1 RUFFINGTON
13-25S-37E
(17)
YATES - SEVEN RIVERS
QUEEN
GRAYBURG
SAN ANDRES
SAN ANDRES
AVERAGE
GAS - OIL
CONTACT
SEA LEVEL DATUM
+1000
+500
0
-500


Top of Yates
Top of Queen
SEA LEVEL
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
100
200
300
400
TD(-300)
TD(-300)
TD(-299)
TD(-289)
TD(-287)
TD(-320)
TD(-308)
TD(-316)
TD(-325)
TD(-323)
TD(-327)
TD(-326)
TD(-313)
TD(-325)
TD(-325)
TD(-325)
TD(-325)
TD(-315)
Slight
Slight
Slight

LEGEND

Top of Yates	Y
Base of Salt	S
Ink Show	INS
Gas Show	G
Oil Show	●
Oil and Gas Show	◆
Casing	
Sulphur Water	SUW
Salt Water	GR SW
Tubing Packer	PKR
Total Depth	TD
Plug Back Depth	PBD
Tested Interval w/Show of Oil	●
Shot Interval w/240 qts	2840'
Perforated Interval	Perf 1
Liner	Top / Bottom
Lost Circulation	LC
Blow Out	BO

SCALES

Horizontal 1" = 600'

Vertical 1" = 100'

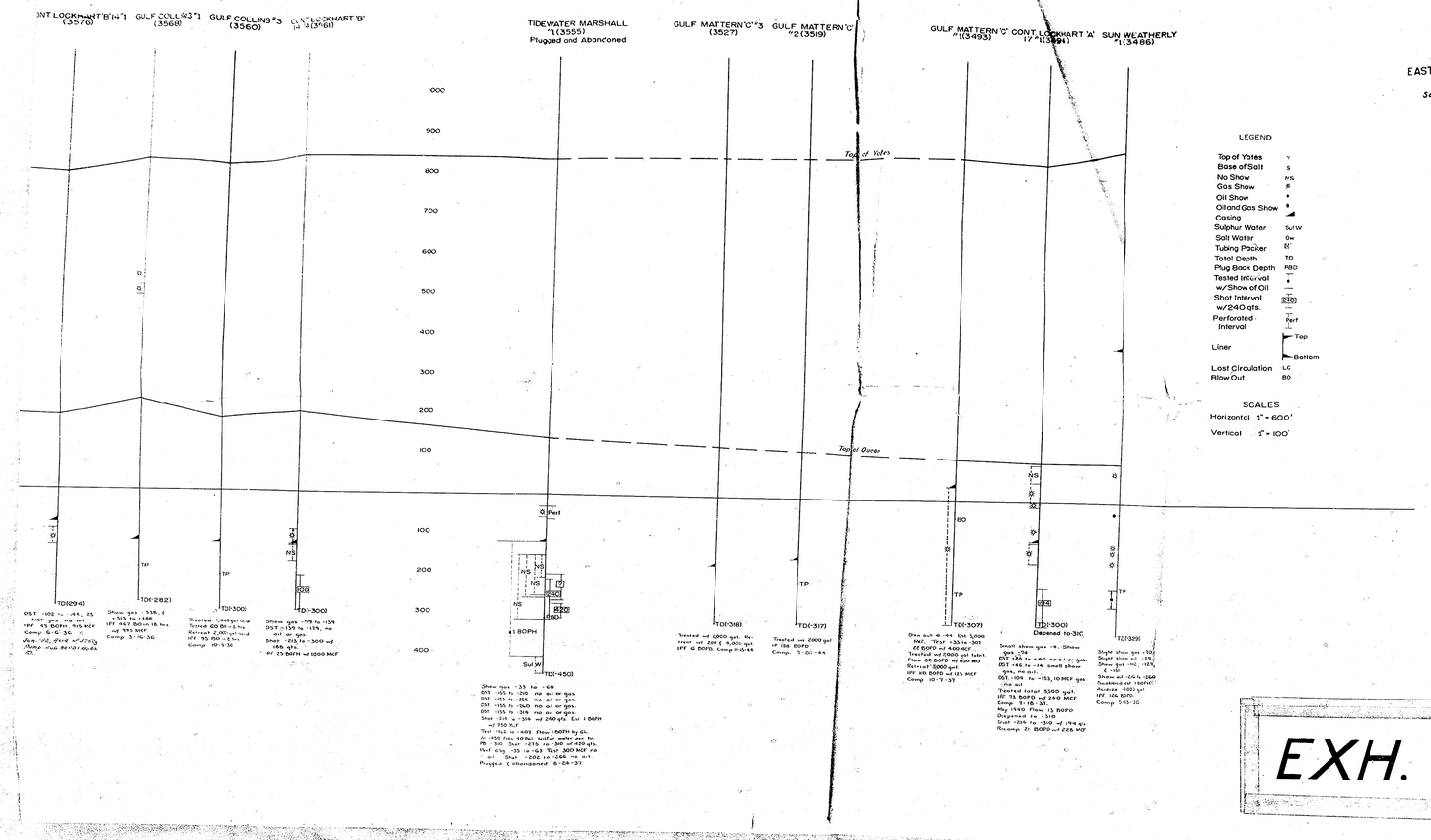
Circle

EXH. NO. 4

SHELL STATE 'H' #1 (3603) | CONT. LOCKHART 'A' #18 #4 (3619) | CONT. LOCKHART 'A' #18 #5 (3628) | CONT. LOCKHART 'A' #18 #2 (3626) | 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)

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	Ø
Oil Show	•
Oil and Gas Show	•
Casing	
Sulphur Water	Sul W
Salt Water	Sw
Tubing Packer	⊠
Total Depth	TD
Plug Back Depth	PBD
Tested Interval w/ Show of Oil	T
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. 5

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" NO. 1 ELEV. 3416

SKELLY KING "D" NO 1 ELEV. 3409

SUN RICH ELEV.

800

600

400

200

SL

-200

-400

-600

Top of Yates

Top of Seven Rivers

TP

① DST No. 1 +28 to -61, Nothing.
② DST No. 2 -23 to -93, 63' gas cut mud, 1 hour.
③ DST No. 3 +91 to +147, 40' oil, 1120' oil cut mud.
④ DST No. 4 -147 to -205, 125' water, trace oil; 1 hour. Tested 1 BOPH, -145 to -115; Acidized w/1500 gals., reacidized w/3000 gals. I.P.F. 124 Bbls. oil in 6 hours. 231 MCF gas per day. Comp. 6-13-48

OCT 43 Anhy. 2722' (Yates) Prod. fm. Created from surv. 1781 to 2460 1-01 dip per day

Perf. +28 to -62, acidized 1000 gals. Reacidized 3000 gals. Tested 6510 MCF/day P.B. to +32

Perf. from +8 to +2 and -6 to -18. Tested 4,800 in 12 hours. Acidized 1500 gals. Flowed 58,800 per hour. 857 MCF/day Comp. 9-29-49

Perf. +76 to +50, Acidized w/1000 gals. Reacidized w/3000 gals. Flowed 11,000 MCF/day Comp. 7-13-49

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.&G.
③ DST No. 3 +120 to +100 2,680 MCF Gas per day
④ DST No. 4 +100 to +75 No gas/day; 180' water, no oil
⑤ DST No. 5 +76 to +50 180 MCF gas/day, 130 gas cut mud, no oil 60 water.
⑥ DST No. 6 +50 to +25 150' sulphur water, Show G.
⑦ DST No. 7 +25 to -35 680' water, 30' oil in 1 hour. Test -35 to -73 bailed 12 bbls. water in 1 hour.

PB to -25
Perf. +125 to +107
Test 400 MCF gas/day
PB to +85
Perf. +255 to +225
Flowed 11,000 MCF gas/day
SIP 960 #
Comp. 7-13-49

On 6-11-50 Shut in pressure +804#
On 6-12-50 B-Pressure Potential- 6150 MCF/day
Sulphur .91 grains/100 cu ft
On 7-20-50 Diff. fm. was +743.3'

① DST No. 1 +305 to +35, recovered in 1 hr, 1550' 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 -47 to -200, recovered in 1 hr, 220' mud, no O.G. or W.
④ DST No. 4 -190 to -325, recovered in 1 hr, 210' mud, no O.G. or W.
⑤ DST No. 5, -225 to -405, recovered in 1 hr, 60' mud, st. show oil, no gas
⑥ DST No. 6, -425 to -590 recovered in 1 hr, 780' water, sl. show oil
PB to +65, bailed 5.5 BOPD 1 Bbl. water/day
⑦ Shot from +285 to +151 w/195 qts. Flowed 188 BOPD 96 MCF gas. Comp. 9-27-48

OCT 43 Sanfrsco Jros -3370' wfrcony. Inc. from 17.6 ft via dump.

Show of Gas +340 to +293
2½ MMCF/day
Comp. 9-25-49

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

S.I.P. 1150 #
14,000 MCF/day
Comp. 2-13-50

S.I.P. 1075 #
9,000 MCF/day
Comp. 12-3-49

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

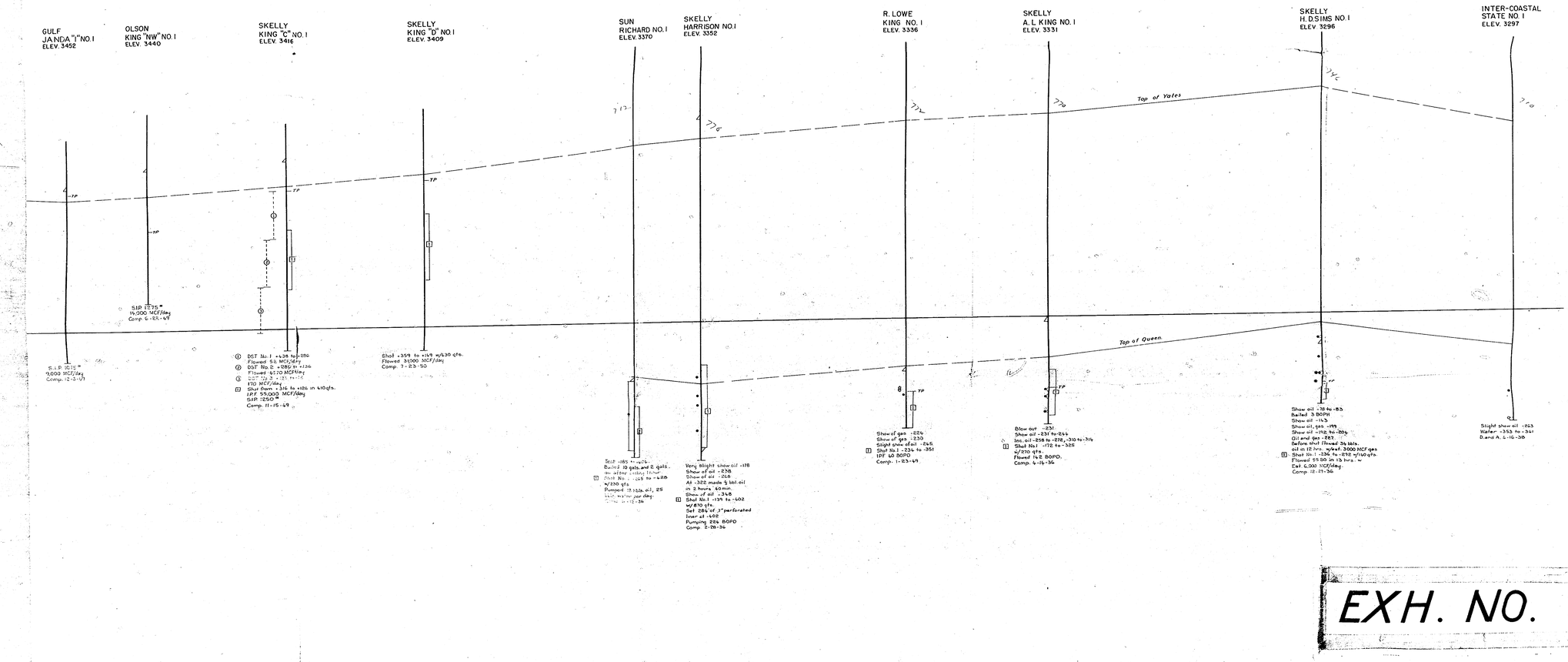
② DST No. 1 +438 to +386
Flowed 58 MCF/day
③ DST No. 2 +386 to +336
Flowed 1,710 MCF/day
⑤ DST No. 3 +213 to +102
170 MCF/day
⑦ Shot from +316 to +126 in 4 holes.
I.P.F. 59,000 MCF/day
SIP 1250 #
Comp. 11-15-49

Shot +359 to +49 w/430 qts.
Flowed 31,100 MCF/day
Comp. 7-25-50

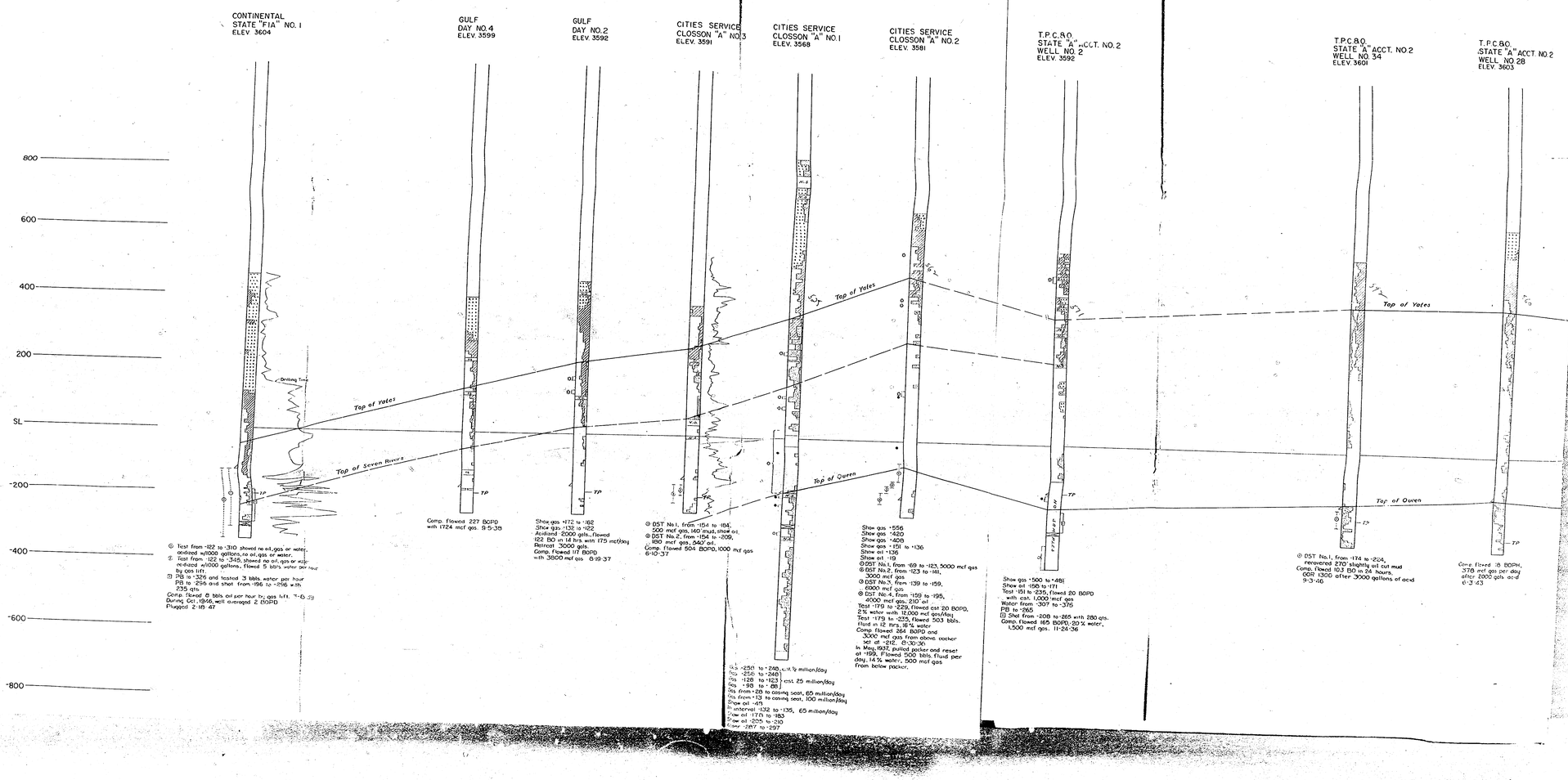
Test +85 to
Bailed 10 gal
on after sh
Shot No. 1
w/230 qts.
Pumped 18
Lkin. water
Comp. 4-15

EAST-WEST SECTION T-22A

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



EXH. NO. 7



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, re-fraced 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 -256 and shot from -196 to -256 with 235 qts.
Comp. flowed 6 bbls. oil per hour by gas lift. 11-6-39
During Oct. 1946, well averaged 2 BOPD
Plugged 2-18-47

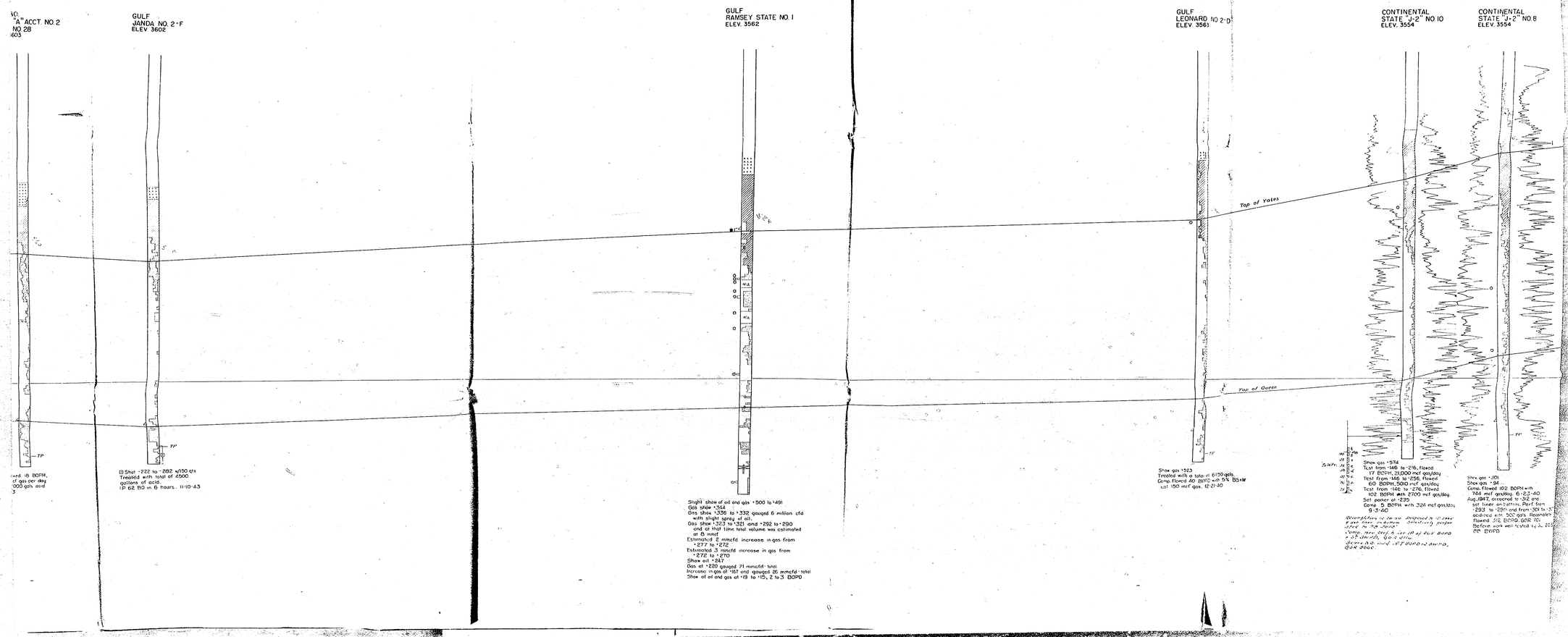
Show gas -172 to -182
Show gas -132 to -122
Acidized -2000 gals., flowed 122 BO in 14 hrs. with 175 mcf/day
Retreat -3000 gals.

① DST No.1, from -154 to -164, 500 mcf gas, 140' mud, show oil.
② DST No.2, from -154 to -209, 180 mcf gas, 540' oil.

① DST No.1, from -169 to -123, 5000 mcf gas
② DST No.2, from -123 to -141, 3000 mcf gas
③ DST No.3, from -139 to -159, 6900 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, 18% water
Comp. flowed 364 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.

① DST No.1, from -174 to -224, recovered 270' slightly oil cut mud
Comp. flowed 162 BO in 24 hours, GOR 1300 after 3000 gallons of acid
9-3-46

Gas -250 to -248 est. 1/2 million/day
No -255 to -248
Gas -128 to -123 est. 25 million/day
Gas - 93 to - 86
Gas from +28 to casing seat, 65 million/day
Gas from +13 to casing seat, 100 million/day
Show oil -49
Oil interval -132 to -135, 65 million/day
Show oil -176 to -183
Show oil -255 to -270
Show -287 to -297

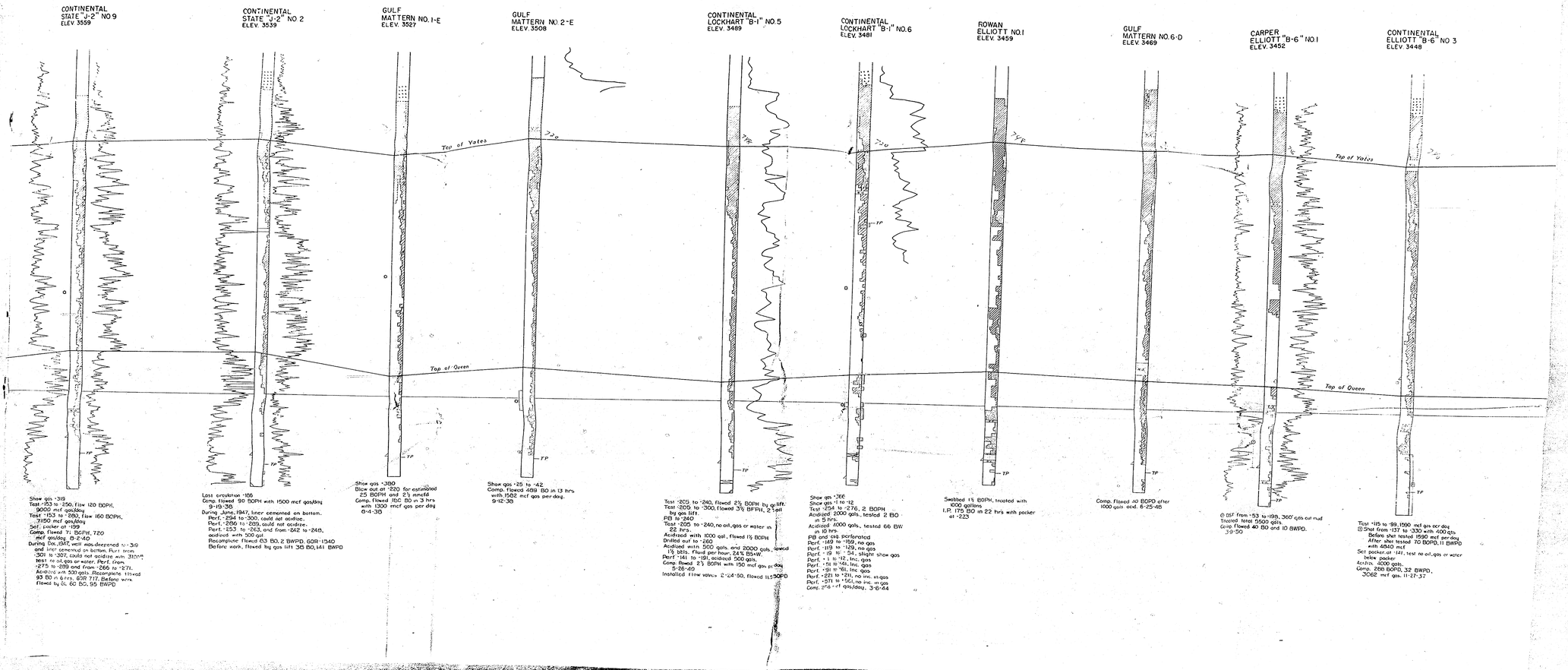


and 18 BOPH,
cf gas per day
000 gals acid
3

@ Shot -222 to -282 w/150 qts
Treated with total of 4500
gallons of acid.
IP 62 BO in 6 hours. 11-10-43

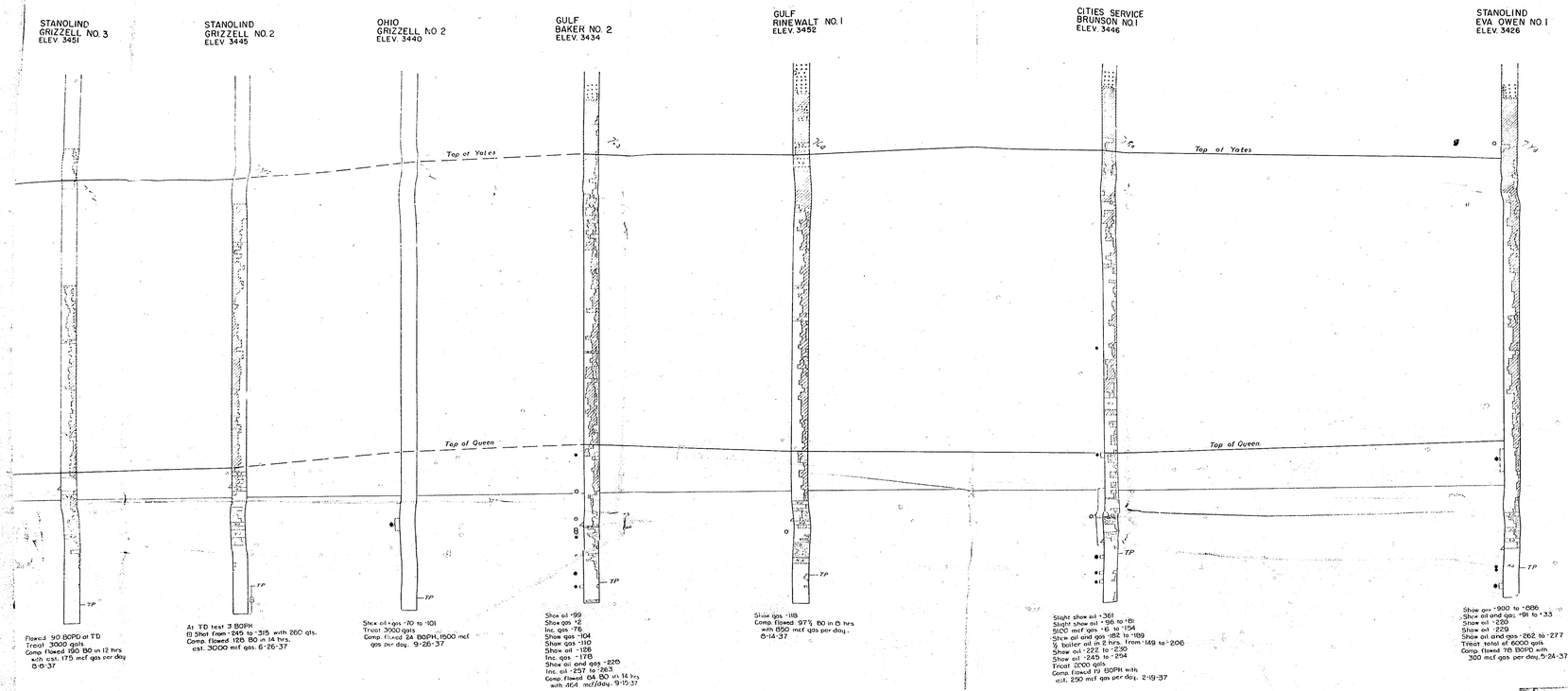
Slight show of oil and gas +500 to +491
Gas show +364
Gas show +336 to +332 gauged 6 million cfd
with slight spray of oil.
Gas show +323 to +321 and +292 to +290
and at that time total volume was estimated
at 6 mmcf
Estimated 2 mmcfd increase in gas from
+277 to +272
Estimated 3 mmcfd increase in gas from
+272 to +270
Show oil +247
Gas at +220 gauged 21 mmcfd- total
Increase in gas at +187 and gauged 26 mmcfd- total
Show of oil and gas at +19 to +15, 2 to 3 BOPD

Recompleted in same zone as original hole
Comp. flowed 8 BOPH with 2% BSW
thru 3/4" ck. on 2" tbg.
Gas-oil ratio 1:1
Shows gas and oil in the sand
Gas show

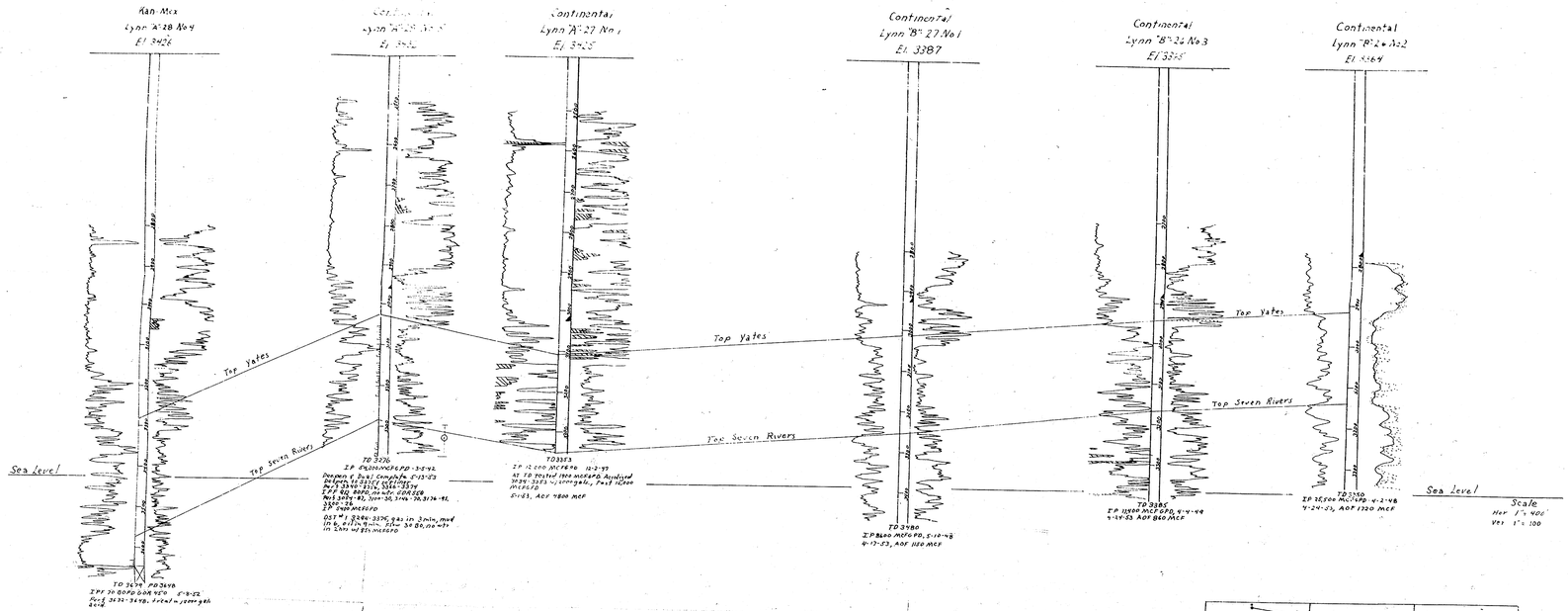

CONTINENTAL
STATE "J-2" NO 9
ELEV. 3559
CONTINENTAL
STATE "J-2" NO 2
ELEV. 3539
GULF
MATTERN NO. 1-E
ELEV. 3527
GULF
MATTERN NO. 2-E
ELEV. 3508
CONTINENTAL
LOCKHART "B-1" NO.5
ELEV. 3489
CONTINENTAL
LOCKHART "B-1" NO.6
ELEV. 3481
ROWAN
ELLIOTT NO.1
ELEV. 3459
GULF
MATTERN NO. 6-D
ELEV. 3469
CARPER
ELLIOTT "B-6" NO.1
ELEV. 3452
CONTINENTAL
ELLIOTT "B-6" NO. 3
ELEV. 3448
Top of Yates
Top of Queen
TP
Show gas -319
Test -153 to -250, Flow 120 BOPH, 9000 mcf gas/day
Test -153 to -250, Flow 160 BOPH, 7150 mcf gas/day
Set packer at -199
Comp. flowed 71 BOPH, 720 mcf gas/day. 8-2-40
During Dec. 1947, well was deepened to -319 and liner cemented on bottom. Perf. from -301 to -307, could not acidize with 3100 gal. test no oil, gas or water. Perf. from -275 to -289 and from -266 to -271. Acidized with 500 gals. Recomplete, tested 93 BO in 6 hrs. GOR 717. Before was flowed by GL 60 BO, 95 BWPD
Loss circulation -106
Comp. flowed 90 BOPH with 1500 mcf gas/day 9-19-36
During June, 1947, liner cemented on bottom. Perf. -294 to -300, could not acidize. Perf. -256 to -269, could not acidize. Perf. -253 to -260, and from -242 to -248, acidized with 500 gal. Recomplete flowed 63 BO, 2 BWPD, GOR 1340 Before work, flowed by gas lift 36 BO, 141 BWPD
Show gas -350
Blew out at -220 for estimated 25 BOPH and 2½ mmcfd
Comp. flowed 156 BO in 3 hrs with 1300 mcf gas per day 6-4-38
Show gas -25 to -42
Comp. flowed 489 BO in 13 hrs with 1582 mcf gas per day. 9-12-38
Test -203 to -240, flowed 2½ BOPH by gas lift
Test -205 to -300, flowed 3½ BPPH, 21 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 -260
Acidized with 500 gals. and 2000 gals. lowed 1½ bbls. Fluid per hour, 24% BS+W.
Perf. -141 to -191, acidized 500 gals.
Comp. flowed 2½ BOPH with 150 mcf gas pe day
5-26-40
Installed flow valve 2-24-50, flowed 115 BOPD
Show gas -366
Show gas -1 to -12
Test -254 to -276, 2 BOPH
Acidized 2000 gals., tested 2 BO in 9 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. -15 to -54, slight show gas
Perf. + 1 to -12, inc. gas
Perf. -51 to -161, inc. gas
Perf. -91 to -161, inc gas
Perf. -221 to -211, no inc. in gas
Perf. -271 to +152, no inc. in gas
Comp. 2-6-41 mcf gas/day, 3-6-44
Swabbed 1½ BOPH, treated with 1000 gallons
I.P. 179 BO in 22 hrs with packer at -223
Comp. flowed 40 BOPD after 1000 gals acid. 6-25-48
@ 057 from -53 to -198, 360' gas cut mud
Treated total 5500 gals.
Comp flowed 40 BO and 10 BWPD. 39-50
Test -115 to -99, 1590 mcf gas per day
Shot from -137 to -330 with 400 qts.
Before shot tested 1590 mcf per day
After shot tested 70 BOPD, 11 BWPD with 6840 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

EAST-WEST SECTION T-22

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



EXH. NO. 6


Kan-Mex
Lynn "A" 28 No 4
El 3426
Continental
Lynn "A" 27 No 1
El 3425
Continental
Lynn "B" 27 No 1
El 3387
Continental
Lynn "B" 26 No 3
El 3335
Continental
Lynn "B" 26 No 22
El 3364
Top Yates
Top Seven Rivers
Sea level
TD 3679 PD 3498
IPF 70 BOPD 60M MCFD 6-18-52
Perf 3432-3498, treat w 30M gal acid
TD 3376
IP 5BOPD 40MCFPD 3-2-93
Prepare & Run Complete Cmt Sqz
Behind 5½" Csg Leak 1355'
Perf 80 Holes under CIBP@
Perf 3296-98, 3314-30, 3346-70, 3376-98,
3404-28,
IP 50BOPD MCFSTO
Frac 3296-3376 gal in 3 min, max
in 6 min, min 24hr SI PR, none
in 5hrs no FFS MCFSTO
TD 3373
IP 12 BOPD MCFSTO 11-2-93
Set TP Tested 1BOPD MCFSTO Acidized
3439-3525 w/ 1,000 gals, Perf 11 Holes
MCFSTO
SI-183, AOF 980 MCF
TD 3980
IP 5BOPD MCFSTO, 5-18-98
6-17-23, AOF 188 MCF
TD 3385
IP 11500 MCFGPD, 4-4-99
4-19-23 AOF 860 MCF
TD 3360
IP 2500 MCFGPD 4-2-98
4-24-23, AOF 1220 MCF
Scale
Hor 1" = 400'
Ver 1" = 100
T
23
S
Continental est
Continental west
Continental est
18
Lynn
19
20
Lynn
Lynn
Overlap
Lynn
R36E

EXH. NO. 10

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

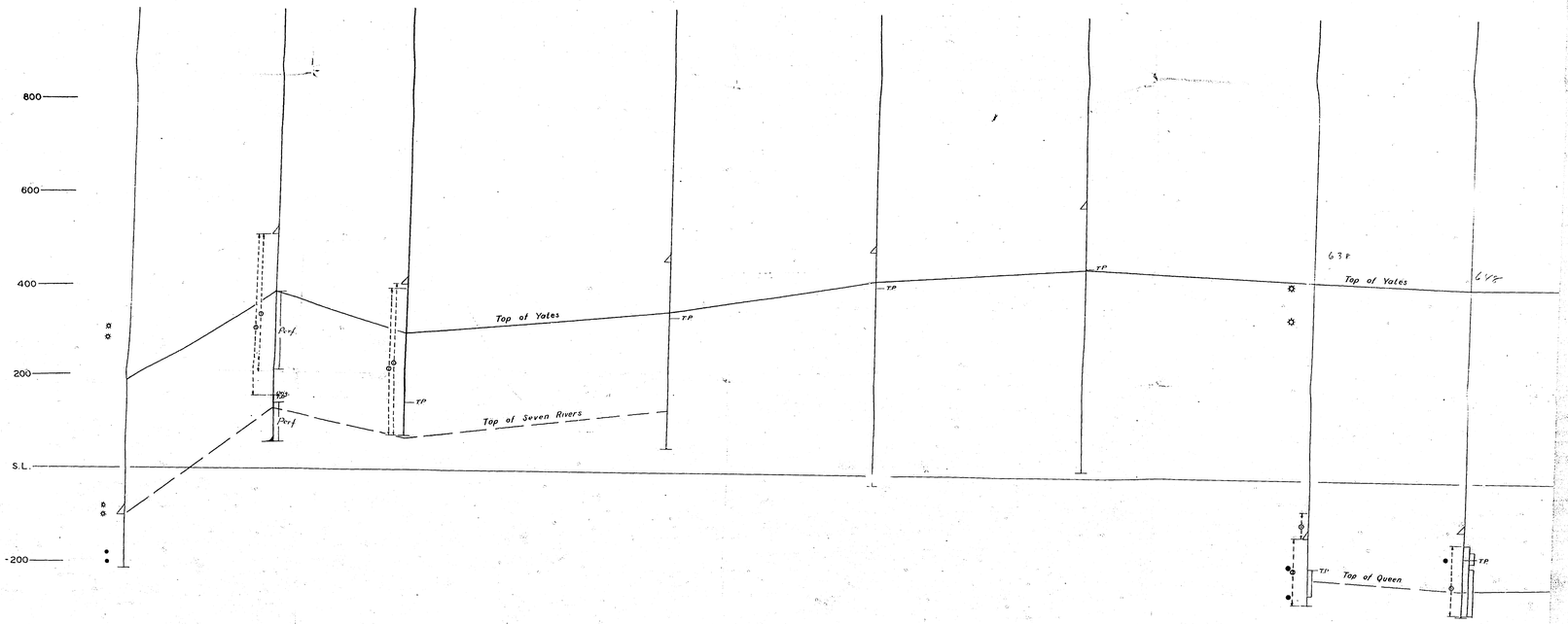
CONT'L ET AL
LYNN B-27 NO.1
ELE. 3385

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



Comp 5-12-49 @ T.D. 3668 for T.P. 71 BOPH, No Water. 887 MCF/day on 3 hr test flowing thru ¾" choke. Not shot or acidized. Pay section 3833'-3640'; 3634'-3659'

Test #1: +305 to +208 3 MMCFGPD
Test #2: +305 to +155 25 MMCFGPD with BP 900 psi.
Comp.: 54 MMCFGPD open flow thru 1" Date: 5-1-42
Test April 18, 1950 SIP 806 psi
June 5, 1950 66 MMCFGPD on back pressure test.

Dual Comp. 5-18-53: Dropped to 3372' (liner on bottom
DST 3634-3375': Flwd. 30 BO, no wtr, in 2 hrs. 954 MCF FP: 1200#
Seven Rivers: Perf. 3240'-3372' 312 holes, no acid. Flwd. for 1½ GOR 550. FP: 50#
Yates: Perf. 3047'-3126' Flwd. 43 BO & 63 BW. Final 432 MCF SIP 699.2

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: OFD 4,900 MCF. SIP 710-3#

Comp: BP test 11,400 MCFGPD
SIP 1225 psi Date 4-5-49
April 11, 1950 SIP 1125 psi.
June 7, 1950 BP Test 6440 MCFGPD
4-24-53: OFD 660 MCF SIP 376-3#

Comp: 25,500 MCFGPD thru csg.
SIP 1182 psi. Date: 5-31-48
April 2, 1948 BP Test 13,800 MCFGPD
SIP 1182 psi (well head)
April 11, 1950 SIP (well head) 1084 psi.
June 7, 1950 BP Test 6050 MCFGPD
4-24-53: OFD 1720 MCF SIP 359-3#

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: -186 to -246 w/120 qts
Comp -121 to -264 35 BOPD with 650 MCF gas Date: 5-17-40

Shot -131 to -281 w/255 qts.
Test #1: after shot flow est 38 BO
Shot -146 to -171 w/50 qts
-181 to -281 w/200 qts.
Completion: IPF 30 BOPD
Date 12-24-49

EAST-WEST SECTION T-23

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

CLAY
COWDEN B-3A
ELE. 3356

CLAY
COWDEN B1
ELE. 3356

HERFF
COWDEN NO1
ELE 3344

WESTERN
COWDEN NO1
ELE. 3321

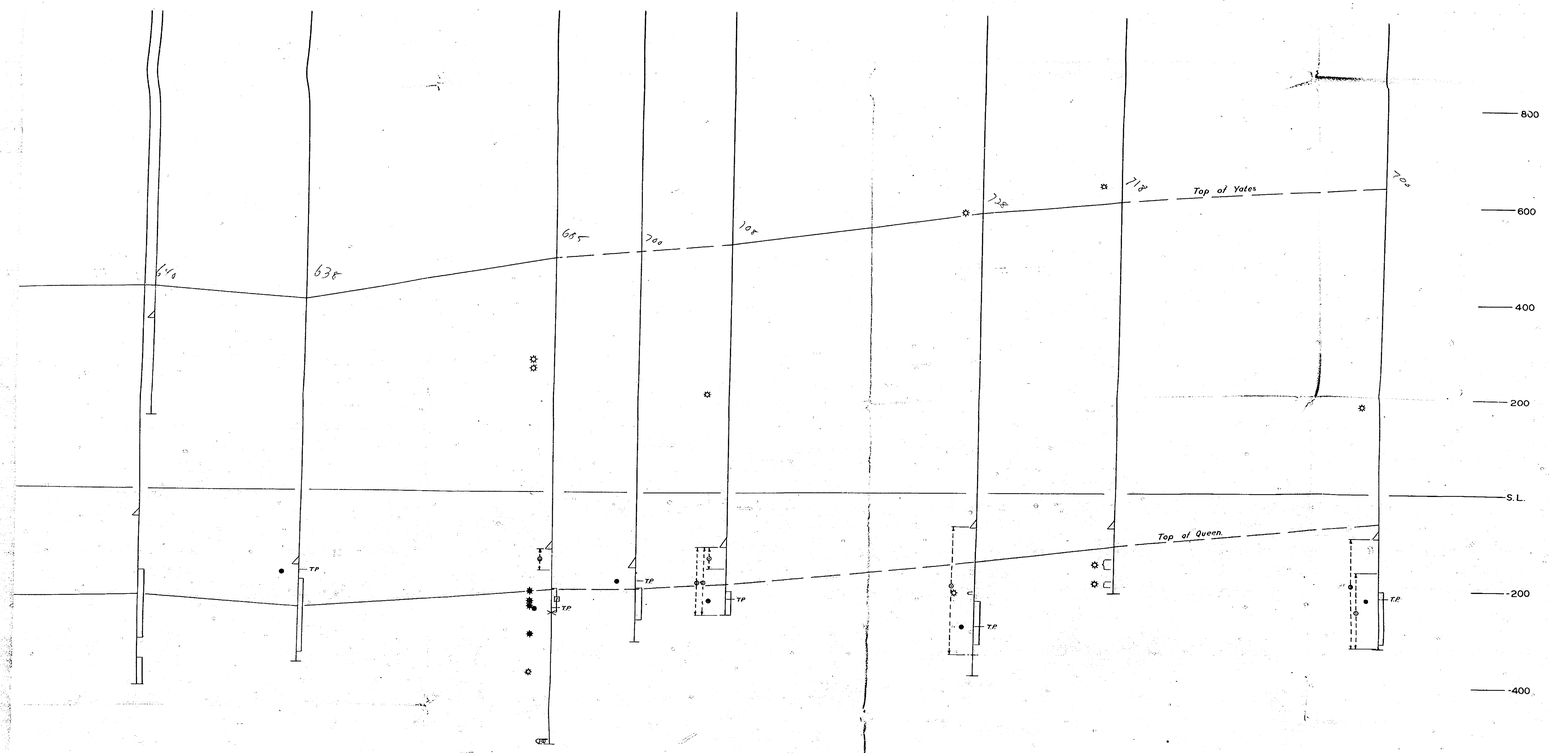
GREAT WESTERN PROD.
LEONARD 2-B
ELE. 3313

GREAT WESTERN
LEONARD 3-B
ELE. 3308

GREAT WESTERN
LEONARD 1-B
ELE. 3283

RESLER & SHELDON
FANNING NO.1
ELE. 3280

WESTERN GAS
DAVIS NO. 1
ELE. 3286



"B-3-B
Shot -331 to -405 w/107 qts
Shot -169 to -207 w/326 qts
Comp: IPF 70 BOPD
Date 8-11-49
"B-3-1
Csg at +336
T.D. at +151
Comp: 6250 MCFGPD
Date: 3-5-47
Remaks: 100' distance between these wells

Shot -186 to -336 w/370 qts
Comp: -154 to -552 IPP 12 BOPD
Date: 2-3-50

Sl. show gas +271 to +256
DST #1: -119 to -162 Rec 10' mud
Show O & G -209 to -223
Incr gas -229
Show oil -229 to -239
Incr O & G -297
Incr Gas -379
Sulfur water -523 to -529
Plug back to -249
Shot -199 to -249 w/150 qts
Comp: IPF 55 BO /Hr. Date: 11-28-57

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. 980 PH thru csg.
Shot -206 to -256 w/100 qts.
Test #3: -115 to -256 2.5 BOPH w/9630 MCFGPD
Comp: Plug at -190 T.D. -256
IPF 130 BOPD w/600 MCFGPD
Date: 6-23-39

Sl. show gas +593 to +585
Show gas -204 to -200 Est. 10-MMCFGPD
Test #1: -67 to -332 Est 75-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 -517 No shows
Recomp: IPF 17 BOPD & 450-MCFGPD Date: 11-12-38

Sl. show gas +645 Brown lime
Show gas -135 to -154
Incr. gas -180 to -192
Comp: 62 MMCFGPD
Date: 12-6-38

Sl. show gas +186
Test #1: DST -259 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: 3-20-38

Exhibit

EXH. NO. 9

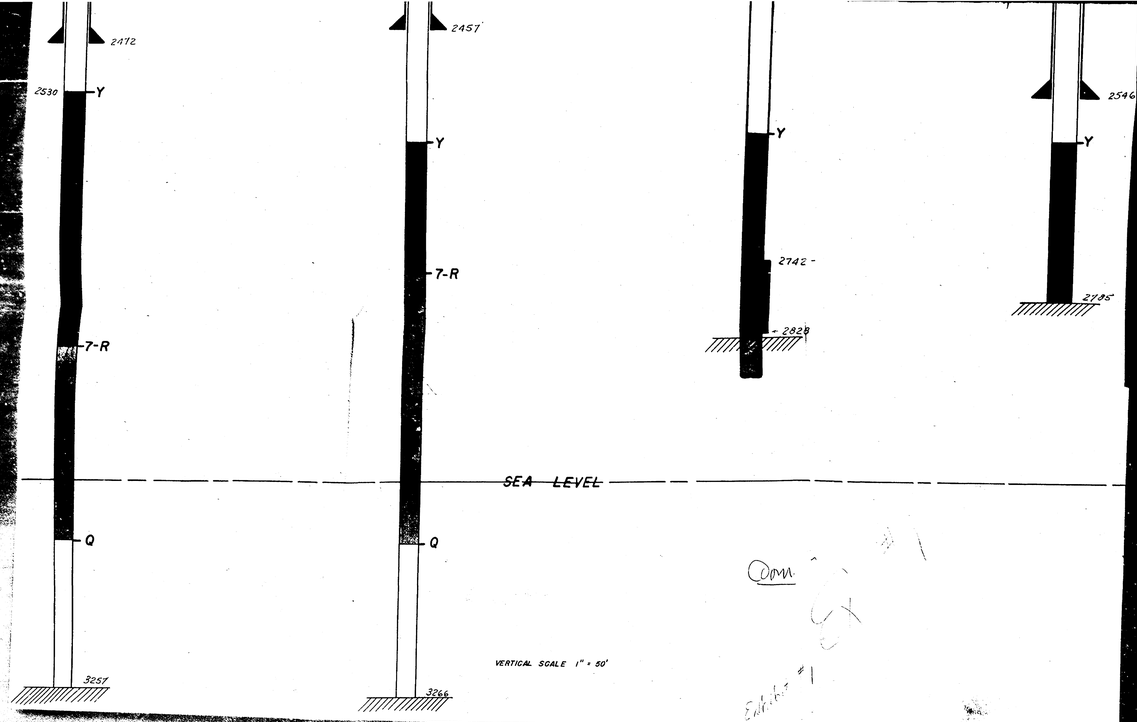
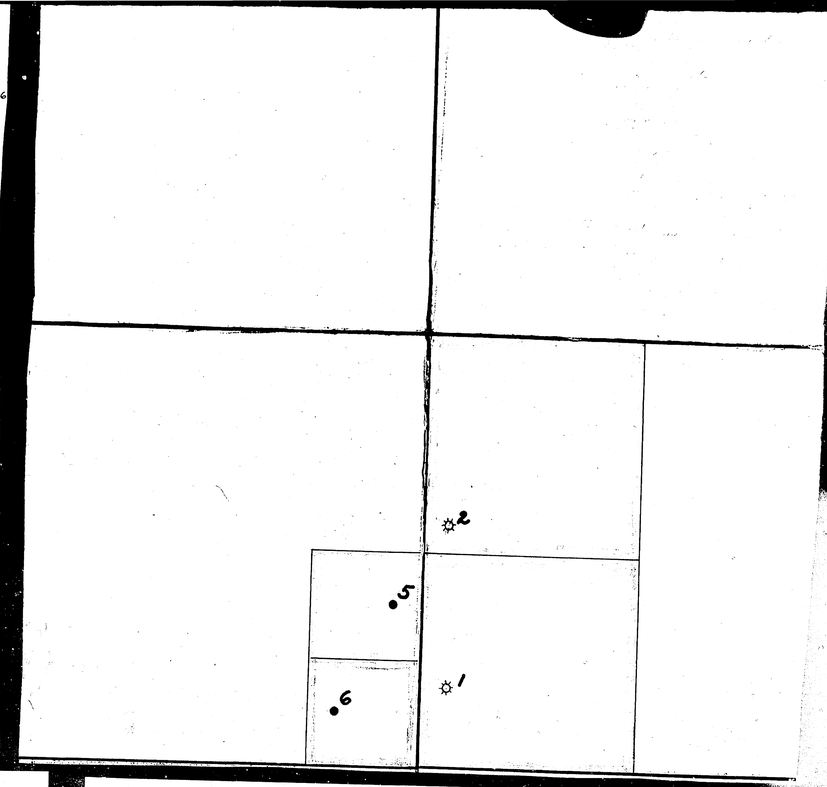


Exhibit #1



		Grade elevation	U & E	T.D.
Exhibit 13 A				
13 B		"	"	7325
13 C		"	"	7325
13 D		"	"	7325
13 E		"	"	7325
13 F		"	"	7325
13 G		"	"	7325
13 H		"	"	7325

		Grade elevation	U & E
Exhibit 14 A			
14 B		"	"
14 C		"	"
14 D		"	"
14 E		"	"
14 F		"	"
14 G		"	"

(These exhibits are in table)

Exhibit #1

Sec. 29 - T21S - R31E

Company	Well	Unit Location	Location	Elev.	T.D.	P.B.D.	Csg	Oil & Gas	Remarks
Ahrco	1-F	M	990 FSL 330 FWL	3617	3976	3958	7"-3911	SSS - 3818	Tests: 10,000 gpd and 650 MCF Work: 4 hr SIP 761 lbs 48 hr SIP 765 lbs Perfs: 3818-3911 w/ 4 JSPF Stimulation: 500 gal 28% HCl, Sandwater frac w/ 20,000 gal 28% HCl & 20,000 lbs sand Csg. perfs: 3818-20, 3824-26, 3832-34, 3838-40, 3844-46, 3852-54, 3858-60, 3864-66, 3872-74, 3878-80, 3884-86, 3890-92, 3898-3900, 3904-06, 3910-12 Completed 8-27-58 IP 4,000 MCF
	1-J	H	1980 FNL 660 FEL	3647	3930		5½"-3920	F 43 B/10 BPH 24 hr test 21 bo	DST 3830-50 Ran in 180 0-1/4 min SI 60 min Sandwater 1700 BW in 78 min Flow 3 hrs 45 min. Recovered 1700 BW in 78 min. Flow 3 hrs 45 min. SI 60 min.
Humble	1B	E	1980 FNL 660 FWL	3667	3971		7"-3941	F 238 BO & 100 BW (3798-3820 wf 4 JSPF 120°)	DST 3697-3744 Shows 30' fluid & no gas DST 3760-3771 Shows mud, 0-1/4 in 11 min. Swabbed 1700 BW in 78 hrs Flow 3 hrs 45 min. SI 60 min.

Sec 30 - T21S - R36E

Company	Well	Unit Location	Location	Elev	T.D.	PB	Csg	Oil & Gas	Remarks
Continental	A-30-1	H	1980 FNL 660 FEL	3665	3987		5½"-3955	F 1860 BO & 10 BW in 12 hrs - 2" Flg	Lost 2650-2940, Mixed Gel 12 min @ TD 3950 Treated w/10,000 gal 28% & 5,000 gal 15% Retreated w/ 3000 gal, P 3500 in 12 hrs STD 3957 Treated w/ 2500 gal.
	A-30-2	A	990 FNL 330 FEL	3665	3963		5½"-3935	F 552 BO in 20 hrs thru 2" Csg. Nom Pot 1848 BO in 24 hrs 2" Flg Gas - TSTM	@ 3942 Acidized 2500 gal 28% MS @ 3958 Flared 112 BO/D
	A-30-3	B	660 FNL 1980 FEL	3664	4022		5½"-3995	F 1001 BO & 4 BW in 24 hrs thru 2" Csg. Gas - TSTM	Lost 2752-96 Stuck, Cut 2 3/8" tbg @ 2854 Lost 2854-2952 Ran in 1250 gal 28% MS @ TD 3998 Treated w/ 5000 gal 28% MS @ 3995 Treated w/ 5000 gal 28% MS & 5000 gal 15% MS @ P.B. 4022 F 1001 BO/D 2" Flg 7⅝ Csg. Set @ 3995 Csg perfs: 3995-4022 w/ 8 JSPF

Sec 30 - T21S - R37E

Company	Well	Unit Location	Location	Elev	T.D.	PBD	Csg	Oil & Gas	Remarks
Humble	2-E	F	1980 FNL 1980 FWL	3658	3974		7"-3935	F 432 BO & 24 bw in 4 hrs on 2" Flg	DST - 3850-98 0 cu DST - 3850-3974 3100' oil 70 min
	3B	J	1980 FSL 1980 FEL	3637	3974		7"-3859 5½"-3974	F 1200 BO & 24 bw in 24 hrs on 2" Flg.	@ 3702 Tested, No flow @ 3915 Tested 15 BO/H Treated w/ 1000 gal 15% HCl & 2000 gal 28% HCl & 10 BW & 2000 lbs sand
	4B	B	660 FNL 1980 FEL	3647	3975		6⅝"-3929 5½"-3974	F 350 BO & 20 bw in 24 hrs 2" Flg open	@ 3869 Tested 10 BO & @ 3900 Tested 300 BO & 600 MCF Treated w/ 1000 gal 15% HCl & 1000 gal 28% HCl & 10 BW & 2000 lbs sand
	5B	G	1980 FNL 1980 FEL	3658	3980		5½"-3980	F 91 BO & 18 BW in 24 hrs 2" Flg thru 3/16" choke with gas	DST 3850-91 1 hr. F 31 BO
	6B	O	660 FSL 660 FEL	3651	3980		5½"-3975	F 450 BO & 40 BW in 24 hrs 2" Flg, 646,000 cu ft gas	DST 3930-3980 1 hr F 512 BO & BW

Sec 30 - T21S - R38E

Company	Well	Unit Location	Location	Elev	T.D.	PBD	Csg	Oil & Gas	Remarks
Continental	A-304	G	1980 FSL 1980 FEL	3642	3930		5½"-3796	F 2000 BO & 40 BW in 24 hrs - 2" Flg 639,000 cu ft gas/day	
	A-305	K	1980 FSL 1980 FWL	3628	3923		5½"-3797	F 1000 BO & 40 BW in 24 hrs - 2" Flg 489,000 cu ft gas/day	
	A-306	F	1650 FNL 2310 FWL	3640	3926		5½"-3796	F 465 BO & 45 B, 953 M in 24 hrs 2" Flg	F 48 B/10 BPH 5½"-3939 Perf 3938-3978, Set F 3938 w/ F 53 BO & 20 BW (30 min test) F 1000 BO & 20 BW in 12 hrs. No treated w/ 6000 gal.
	B-30-1	H	1980 FNL 660 FEL	3635	4101	3956	5½"-3969	76 BO, 100 gas	@ 3930 (2) F 1848 BO & gas 1 hr Tested 2000 F 12 B/10 BPH 24 hr 2" Flg 1,800,000 cu ft gas @ 3930-45 Perf 4 JSPF 3-½" csg, Perforated w/ 4 JSPF @ 3970-3985 Perforated w/ 4 JSPF @ 4000-4015 Perforated w/ 4 JSPF @ 4030-4045 Perforated w/ 4 JSPF @ 4070-4085 Perforated w/ 4 JSPF @ 4100-4115 Perforated w/ 4 JSPF @ 4130-4145 Perforated w/ 4 JSPF @ 4160-4175 Perforated w/ 4 JSPF @ 4190-4205 Perforated w/ 4 JSPF @ 4220-4235 Perforated w/ 4 JSPF @

Sec 32 - T 21 S - R 36 E

Company	Lease	Well	Unit Location	Elev	TD	PBD	Csg	Cl B Csg	Remarks
Empire Gas & Fuel	State	E	1980 FSL 660 FEL	3545	3595		7" 3500	F 600 # 1 hr	Set 3500' in 8¾" hole; pumped 5 sacks Gel ahead of cement; cement with 200 sacks Ideal Type A cement.
Empire Gas & Fuel	State	G	1980 FSL 1980 FEL	3541	3590		7" 3581	F 600 # 1 hr	Set 7" csg @ 3581 with 200 sacks Ideal Type A cement.
Empire Gas & Fuel	State	A	660 FNL 660 FEL	3547	3587		7" 3551	F 600 # 1 hr	Set 7" csg @ 3551 with 200 sacks Ideal Type A cement.
Empire Gas & Fuel	State	H	1980 FNL 660 FEL	3549	3591		7" 3510	F 600 # 1 hr	Set 7" csg @ 3510 with 200 sacks Ideal Type A cement.

Sec 32 - T 21 S - R 36 E

Company	Lease	Well	Unit Location	Elev	TD	PBD	Csg	Cl B Csg	Remarks
General State Corp. Co.	State	L	1980 FSL 660 FWL	3535	3570		7" 3515	F 1000 # 10 min	Set 3515' in 8¾" hole; pumped 5 sacks Gel ahead of cement; cement with 200 sacks Ideal Type A cement. @ 3130 with 50 sacks @ 3070 with 50 sacks @ 3010 with 50 sacks @ 2950 with 50 sacks. On help. @ 2700 with 100 sacks.
Gen. Corp.	State	K	1980 FSL 1980 FWL	3530	4005		8⅝ 3366	DC	@ 3900 tested w/ 3967 cut w/ 30,000 # sand, 30,000 gal. lease oil & 50,000 # rock salt. Swbd 200 bbls/hr. Flowed 30 BO + 170 BW/hr. @ 3900 - 1000 # Pressure F by 3/4" ck 1000 # MP, 1/4 MP, 2200 gal. F. 20 BO & 160 BW/hr thru 2 1/2" tbg.
Gulf	Jacobs B	J	990 FEL 1980 FSL	3534	3969		8⅝ 3377	F 750 # 1 hr	2" tbg TOP 3855

Sec 32 - T 21 S - R 36 E

Company	Lease	Well	Unit Location	Elev	TD	PBD	Csg	Cl B Csg	Remarks
Gulf	Jacobs B	I	660 FSL 1980 FEL	3516	3560		8⅝ 3365	Acid cut not plugged	
Peck Oil	State	M	330 FSL 330 FWL	3529	3570		6⅝ 3510	F 1400 # 20 min	2" tbg Treated w/ 1000 gal acid

Well Data

Company	Lease	Well	Unit Location	Csg	Formation	Elev	Total	Remarks
Humble	State	B-1	E	7" 3516				Perforated 3468 with 4 holes per foot through csg from 3470 to 3474. Swbd 20 BO/hr thru 2" tbg.
Lobo Oil & Refining Co.	Keeler	1	G	8⅝ 3370				Initial prod 24 BO, 20 BW/day

Sec 32 - T 21 S - R 36 E

Company	Lease	Well	Unit Location	Elev	TD	PBD	Csg	Cl B Csg	Remarks
Lobo Oil & Refining Co.	Keeler	H	1980 FNL 660 FEL	3535	3591				
Lobo Oil & Refining Co.	Keeler	G	1980 FNL 1980 FEL	3522			7" 3510	F 1200 # 1 hr	Treated 3000 g.a.

Well Data

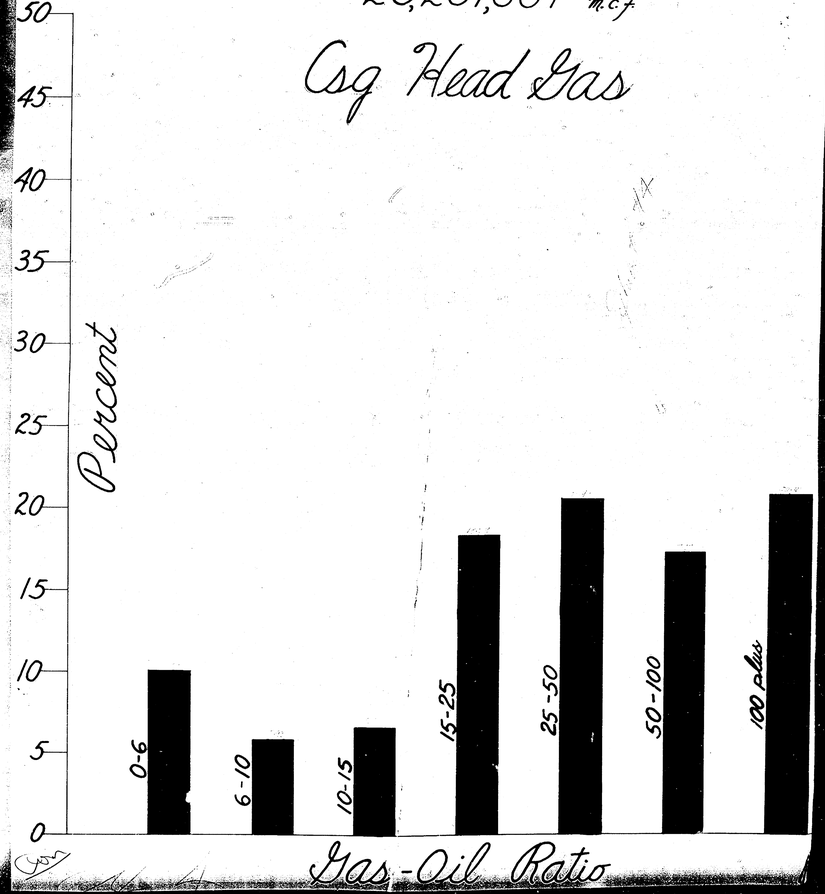
Company	Lease	Well	Unit Location	Csg	Formation	Elev	Total	Remarks
Humble	State	I	2310 FSL 330 FWL					
Colorado Interstate Gas Co.	Lockhart A-32	P	330 FSL 330 FWL					
Colorado Interstate Gas Co.	Lockhart A-32	H	330 FNL 330 FWL					
Colorado Interstate Gas Co.	Lockhart A-32	F	330 FNL 2310 FWL					

Langlie Mattix

1953

25,251,867 m.c.f.

Csg Head Gas

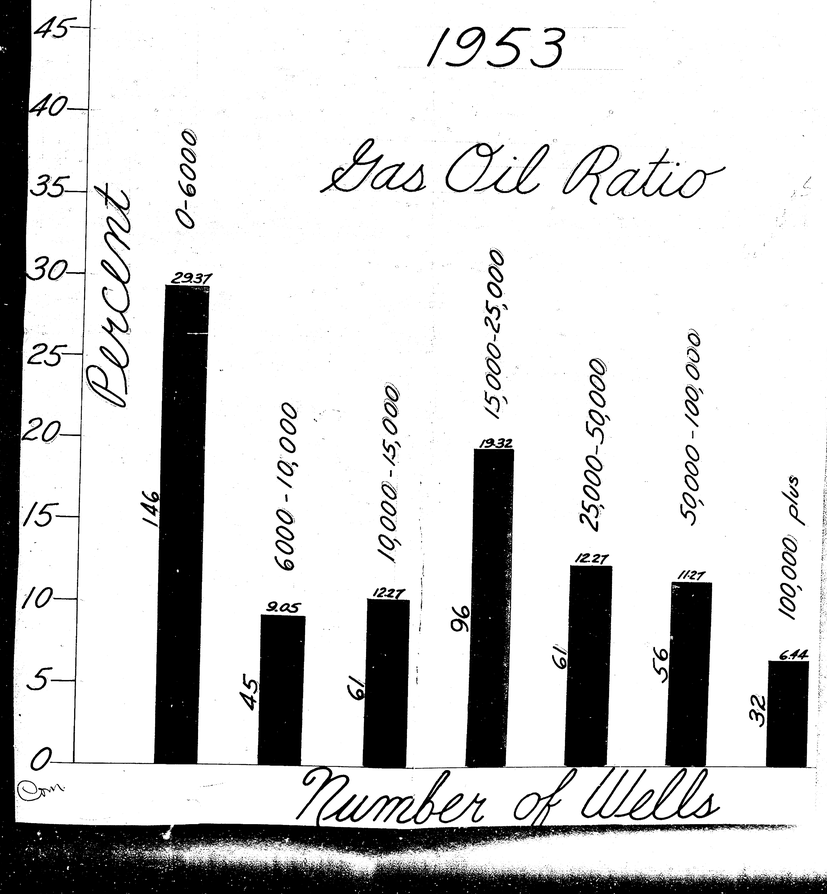


Langlie-Mattix

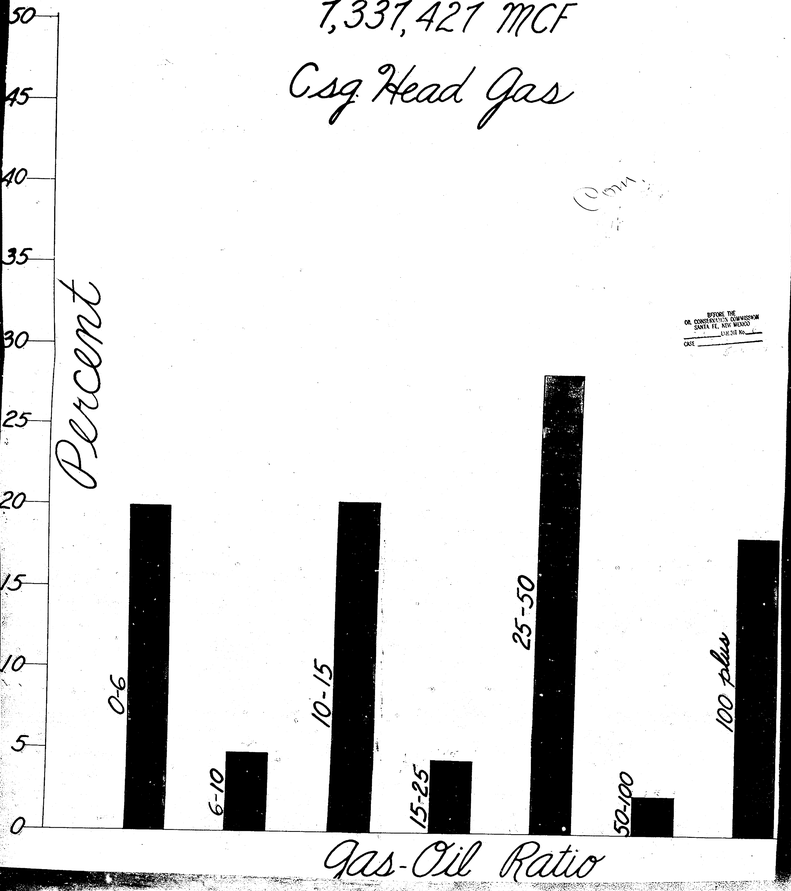
491 Oil Wells

1953

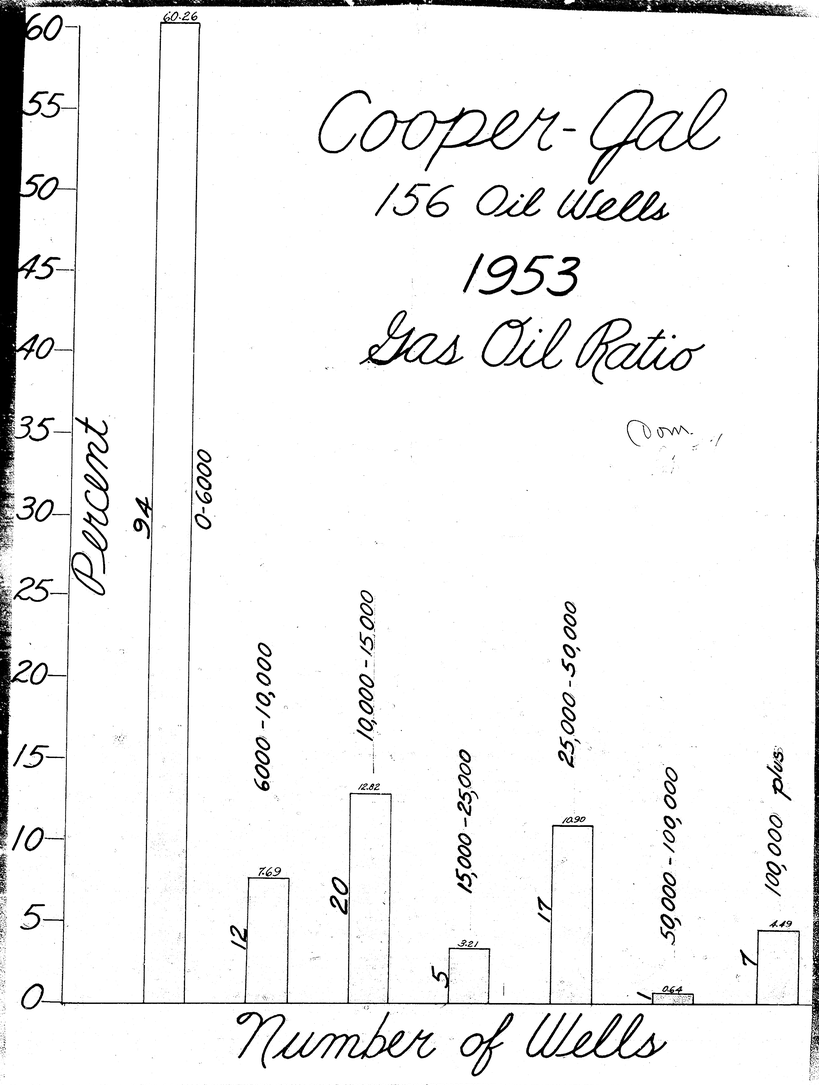
Gas Oil Ratio



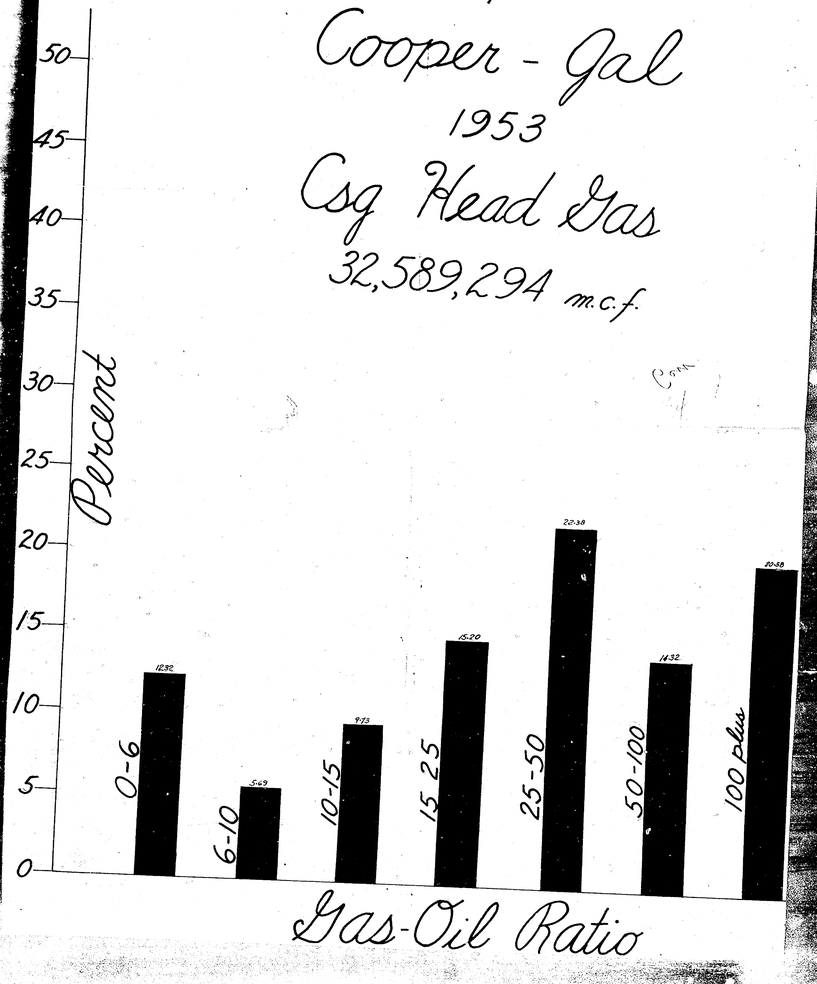
Cooper Gal
1953
7,337,421 MCF
Csg. Head Gas



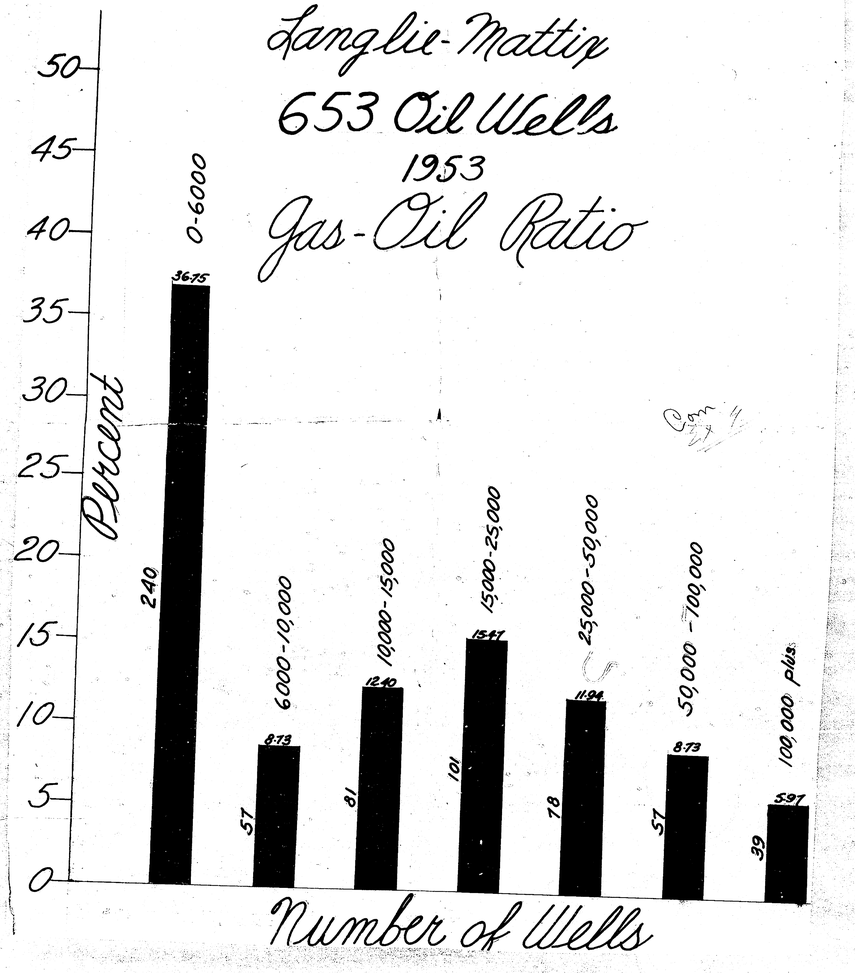
Cooper-Gal
156 Oil Wells
1953
Gas Oil Ratio



Langlie-Mattix & Cooper-Gal
1953
Csg Head Gas
32,589,294 m.c.f.



Cooper - Jal & Langlie-Mattix 653 Oil Wells 1953 Gas-Oil Ratio



T 22 S

T 23 S

T 24 S

T 25 S

T 26 S

R37E

R38E

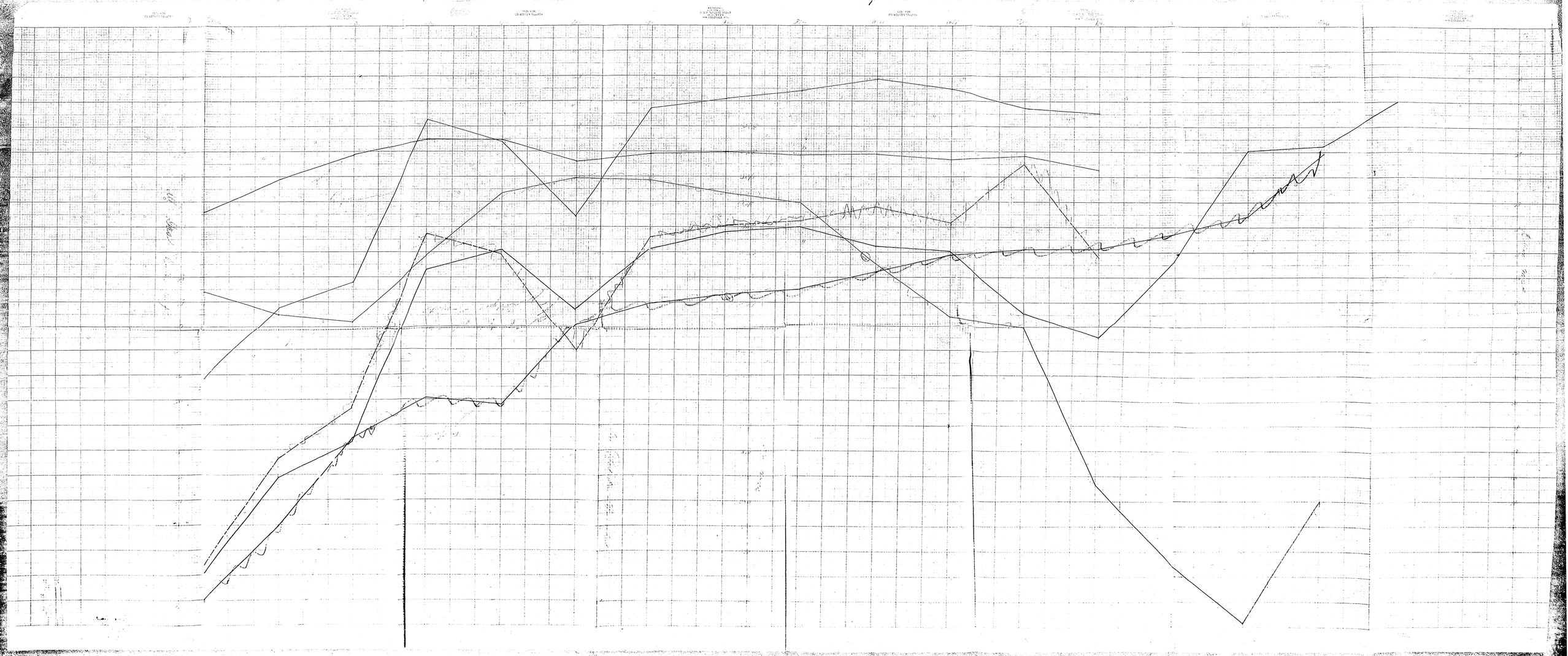
R36E

REPORTED CASINGHEAD GAS

COLOR	GAS-OIL RATIO
	0 – 2,000
	2,000 – 6,000
	6,00 – 10,000
	10,000 – 50,000
	50,000 – ⊂⊃

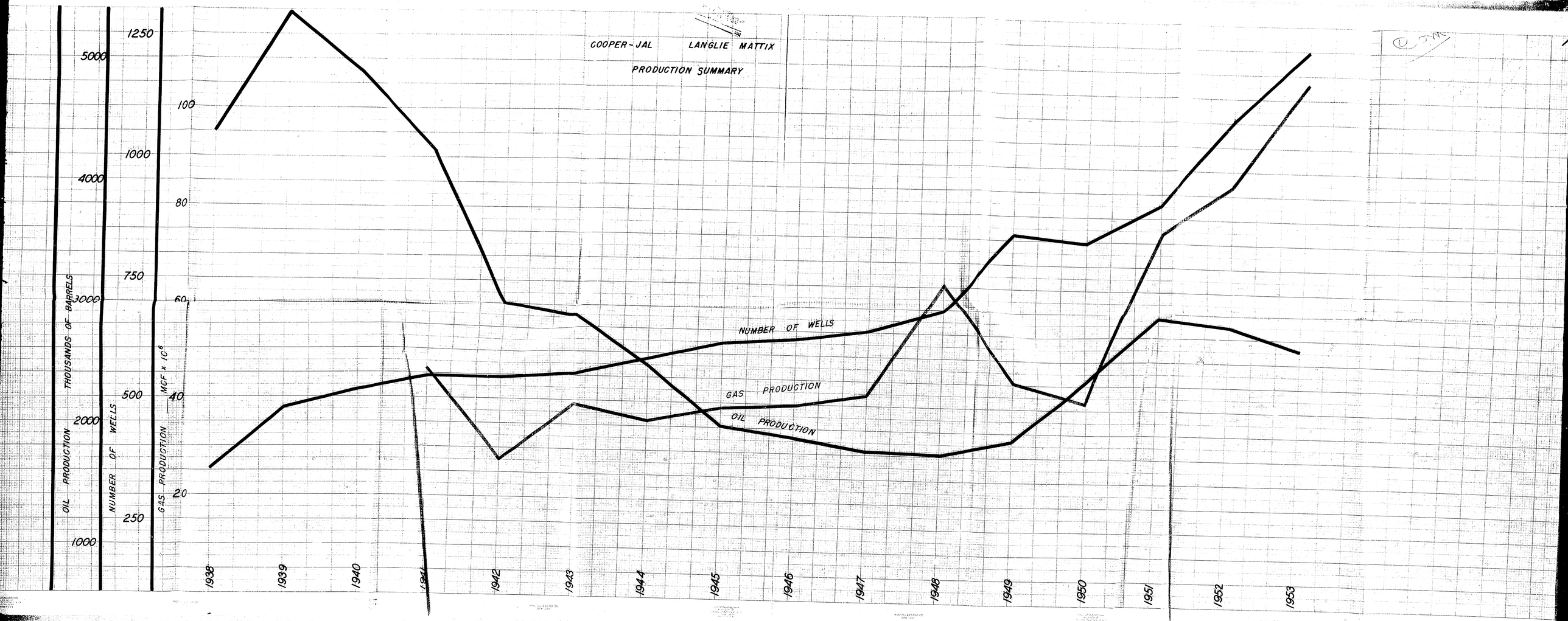
LANGLIE-MATTIX OIL POOL

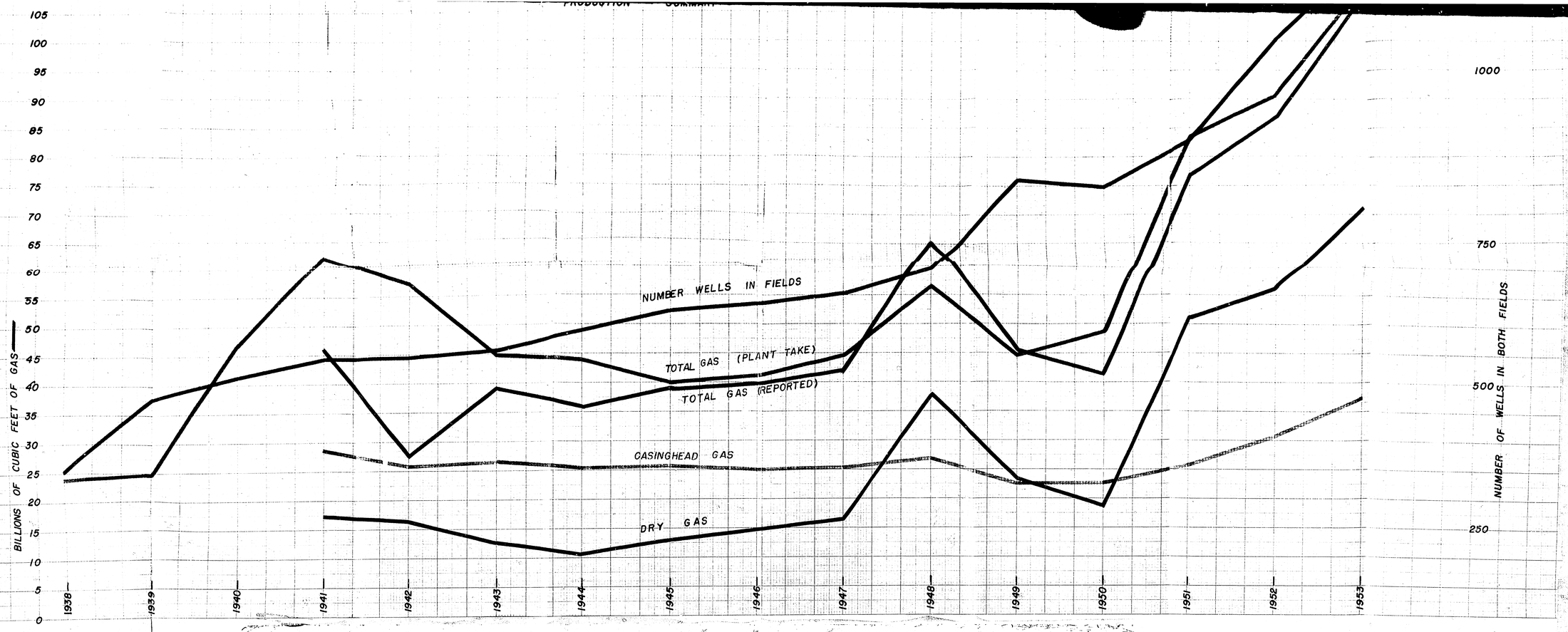
COOPER-JAL OIL POOL



GOOPER-JAL LANGLIE MATTIX

PRODUCTION SUMMARY





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	Sul W
Salt Water	Gw
Tubing Packer	TP
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'l
13 A

+1100

Makin #1 McMillan
SE SW Sec. 29-18S-37E
Elev. 3730df. T.D. 5750

Gamma Ray | Resistivity

Yates

3½M

Queen

Grayburg

Kelly #1 Phillips State
SE SE Sec. 12-19S-36E
Elev. 3723 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

Yates

Queen

Grayburg

Atlantic #2K State
Sec. 6 - 21S - 36E
Elev. 3578 T.D. 3625

Gamma Ray | Neutron

6¼M

Yates

Queen

Grayburg

Gulf #2 Campbell
NE SW Sec. 7-21S-36E
Elev. 3597 T.D. 3900

Gamma Ray | Neutron

Yates

Queen

Grayburg

Continental #2-18 Mc
NE NW Sec. 18-21S-36E
Elev. 3635 T.D. 3922

Gamma Ray | Neutron

Yates

Queen

Grayburg

Pech "1 Shell State
SW SW SW Sec. 32-21S-36E
Elev. 3630' T.D. 3900

Gamma Ray Neutron

3⅞M

Yates

Queen

Queens

Atlantic "1 Selby
SE NW Sec. 33-22S-36E
Elev. 3493 T.D. 3395

Gamma Ray Neutron

5¼M

Yates

Queens

Greenbriar "1 Stephens
NW NW Sec. 34-23S-36E
Elev. 3405 est. T.D. 7310

Gamma Ray Resistivity

5.1M

Yates

Queens

Queen

Stanolind "1-B Meyer
NW NE Sec. 26-24S-36E
Elev. 3920 T.D. 3402

Gamma Ray Neutron

5.2M

Yates

Moss "1 Sholes
NE NE NE Sec. 31-25
Elev. 3014 T.D. 323

Gamma Ray Neutron

7.2M

Yates

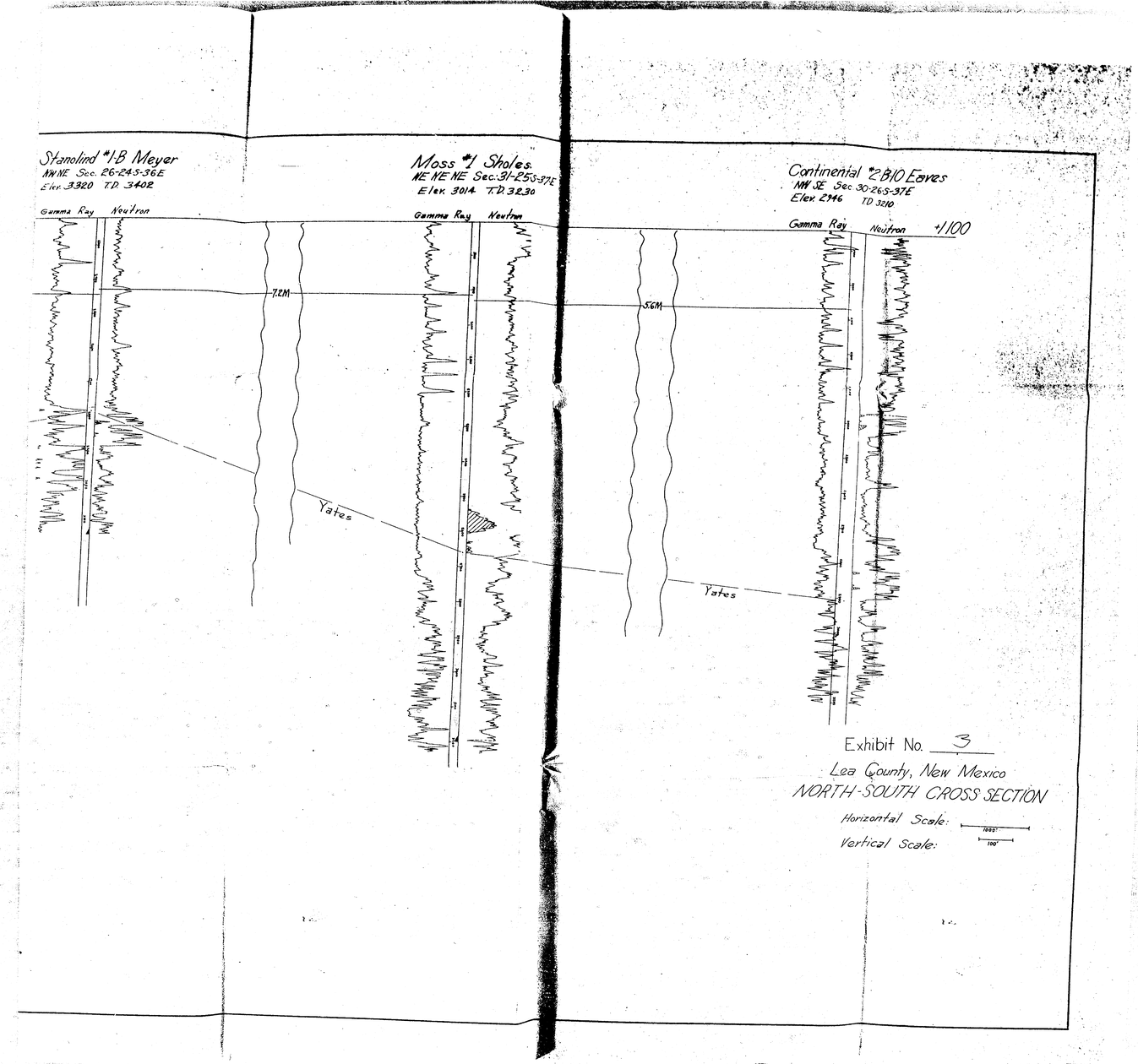


Exhibit No. 3

Lea County, New Mexico

NORTH-SOUTH CROSS SECTION

Horizontal Scale: 1000'

Vertical Scale: 100'

LEA CO. NEW MEXICO & GAINES CO. TEXAS

BLK. A-8

BLK. A-9

BLK. A-10

BLK. A-12

BLK. A-28

BLK. A-29

LEA CO. NEW MEXICO

GAINES CO. TEXAS

TEXAS

HOBBS

LEA CO. NEW MEXIC

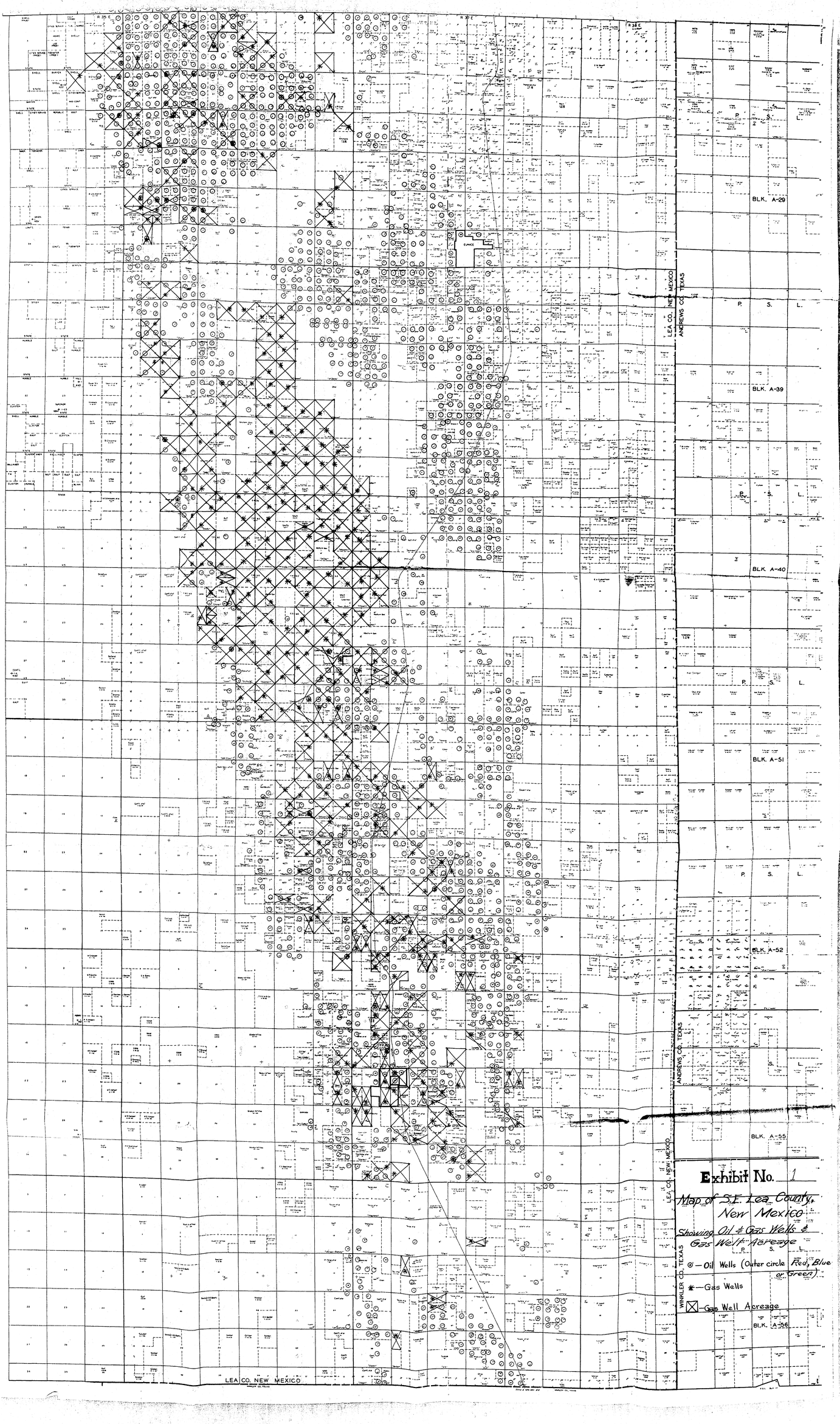
T-17-S

T-18-S

T-19-S

T-20-S

T-21-S


R 35 E
R 36 E
T 21 S
T 22 S
T 23 S
T 24 S
T 25 S
T 26 S
BLK. A-29
BLK. A-39
BLK. A-40
BLK. A-51
BLK. A-52
BLK. A-55
BLK. A-56
LEA CO. NEW MEXICO
ANDREWS CO. TEXAS
WINKLER CO. TEXAS
P.
S.
L.
Exhibit No. 1
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

Mass #1 Reed
NW NE Sec. 3-20S-36E
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

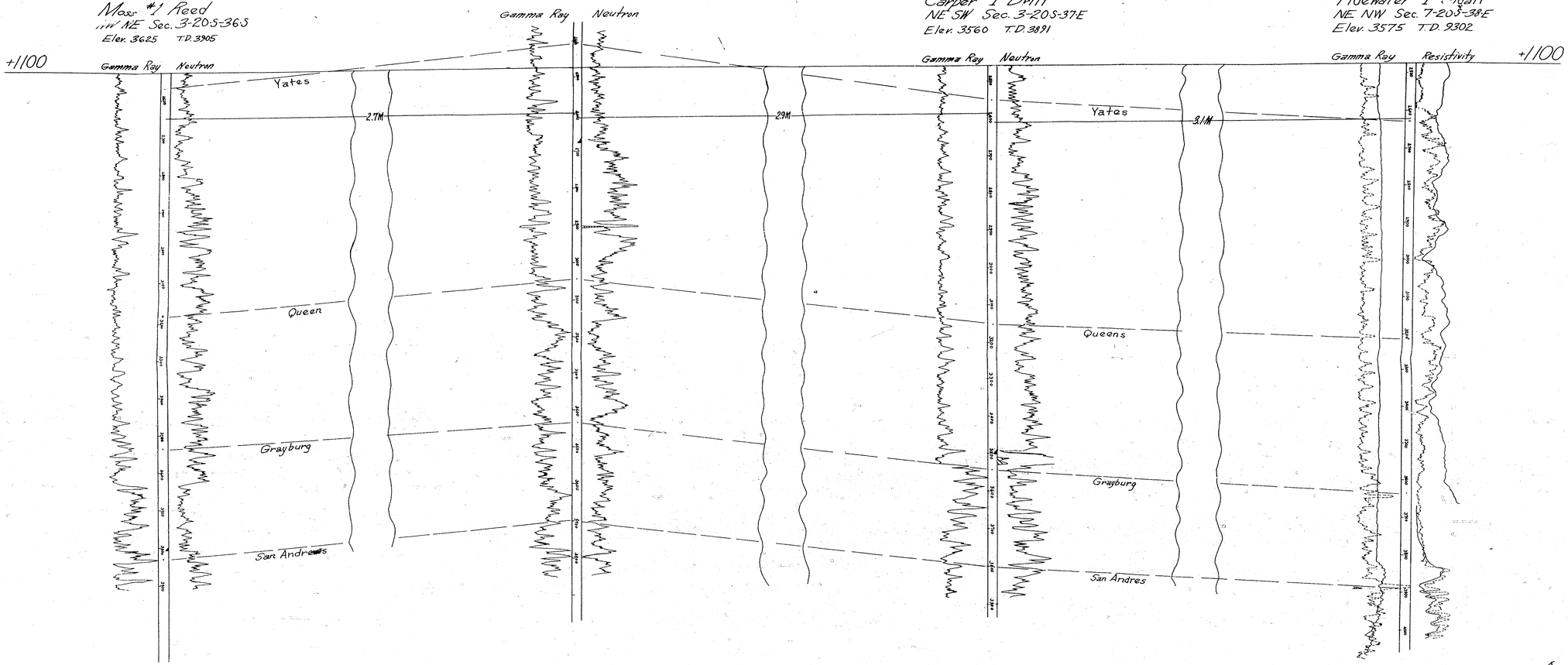


Exhibit No. 4

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

Gamma Ray Neutron

Gamma Ray Neutron

Gamma Ray Neutron +1100

Yates

Yates

Yates

Queen

Exhibit No. 6

SE Lea County, New Mexico

West-East Section "C-C"

Horizontal Scale: 1000'

Vertical Scale: 100'

erada 1-A WE State
NW Sec. 12-21S-35E
. 3584 T.D. 3894

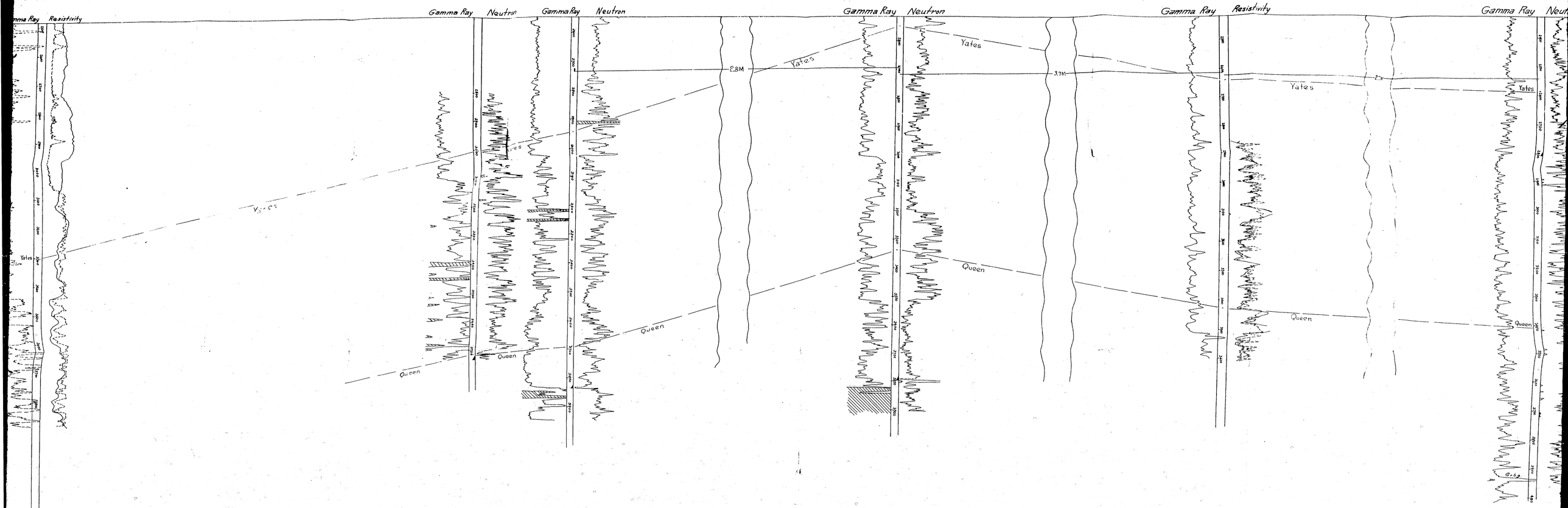
Continental 2-B 18 Meyer
NE NW Sec. 18-21S-36E
Elev. 3654 T.D. 3642

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 Warlick
SE NE Sec. 19-21S-37E
Elev. 3518 T.D. 6716

Gulf 8-C
SW NE Sec.
Elev. 3425



Exhi
SE Lea Co
West-East
Horizontal
Vertical Sc

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. 3543
Sec. 19, T20S, R

BASE SALT

TOP YATES

BASE YATES

QUEEN

PENROSE

BASE PRELIMINENT SAND

A

Perf. 3740-3800
Tr.t. 500 ;
F. 668,300 cf.g PD;
Nit. 2000 gal;
I.P.

Perf. 3820-3885

@ T.D. 3941 w/ 5½ @ 3896 ; P.B. 3892 ;
Perf. ; Tr.t. ; Nit. ;
I.P.F. 2,402,000 cf.g PD.

Perf. 3113-3488
Tr.t. 2200 ;
Swb. Dry

Perf. 3527-3605
Tr.t. 2400 ;
F. 2,400,000 cf.g PD

Perf. 3625-3675
Tr.t. 2250 ;
F. 1,852,000 cf.g PD

I.P. @ 3810 ;
w/ 2" @ 1579
Nit. @ 2500 ;
I.P.

@ 4010 ; Tr.t. 2000; Frm. would not take ;
@ T.D. 4030 w/ 5½ @ 3813 ; Tr.t. 2000 ;
Swb. 5 B/Hr. (30% BS&W) ; Rate F. 2200 ;
I.P.F. 176 B/F/24 Hr. (37½ % BS&W)
or 984 B/D.

w/ B.P. @ 3816 ; Re-Comp ;
O.W.W.D. thru perfs. 3527-3675 ; Tr.t. ;
I.P.F. 4,359,000 cf.g PD.

D.S.T. 2515-2798
op. 1 hr. ; G-1 min
Vol. 33,780 cf PD.
Rec. 810' HGIM
NSO.

D.S.T. 3055-3220
op. 4 hrs. ; G-13 min
Vol. 4,257,000 cf.g.
Rec. 2' SIOIM

D.S.T. 3220-3293
op. 4 hrs. ; G-3 min
Vol. 3,200,000 cf PD
Rec. 5' SulF W

D.S.T. 3474-3630
op. 4 hrs. ; G-4 min.
Vol. 846,000 cf PD.
Rec. 414' GIM

@ T.D. 5727 w/ 7" @ 5717
I.P.F. 107 BOPD

@ T.D. 3813 w/ 6¼ @ 3784
I.P.F. 420 BOPD

@ T.D. 3550 w/ 5½ (
wash 500; Sand fra
I.P.F. 2,412,000 cf

AA'

NORTH-SOUTH TRAVERS

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

Humble
1-B State
Elev. 3657
sec. 29, T21S, R36E

BASE SALT
TOP YATES
BASE YATES
SEVEN RIVERS
PENROSE
BASE PERMANENT SAND
QUEEN

@ T.D. 3550 w/ 5½ @ 3382.
wash 500; sandfrac 6000 gal;
I.P.F. 2,412,000 cfg PD.

Perf. 3440-3504; Tr.t. 500
Swb. rat. 35,000 cfg PD.
Sand w/ frac; 60,000 gal;
Acz. new T.P.
Perf. 3304-3336; Tr.t. 500
Swb. Dry
Perf. 3520-3600; Tr.t. 500
Swb. Dry
Perf. 3620-3643; Tr.t. 500
Swb. 37 BO + 4 B. BS + 15 BW/10 hrs.

@ T.D. 3888 w/ 6¼ @ 3710;
Swb. Dry; Tr.t. 6000 gal;
Swb. 1 F. 11 BF/hr
w/ Pkr. @ 3815; Tr.t. 12,000
I.P.F. 103 BO/24 hr. GOR 96 MCF(W)
+ 2,000,000 cfg PD

O.W.I.W.O.
w/ B.P. @ 3548; Re Comp:
Op. F. Pot. 10,500,000 cfg PD.

D.S.T. 3710-3735
open 10 (minute)
Ext. 1,008,000 cfg PD
Rec. 90' MW
D.S.T. 3725-3740
op 10 min; Ext. 206,000
cfg PD; Rec. 180' M

@ T.D. 3865 w/ 7" @ 3736
(= by hole) Tr.t. 1000;
I.P.F. 25 BO/24 Hrs. Hty.

@ T.D. 3890 w/ 6¾ @ 3797
I.P.F. 708 BOPD + 780,000 cfg PD-N

Blow Out
Est. 50,000,000
cfg PD.

@ T.D. 4015 w/ 7" @ 3728; P.B. 3943
I.P.F. 1200 BOPD + Est. 5,000,000 cfg PD-N

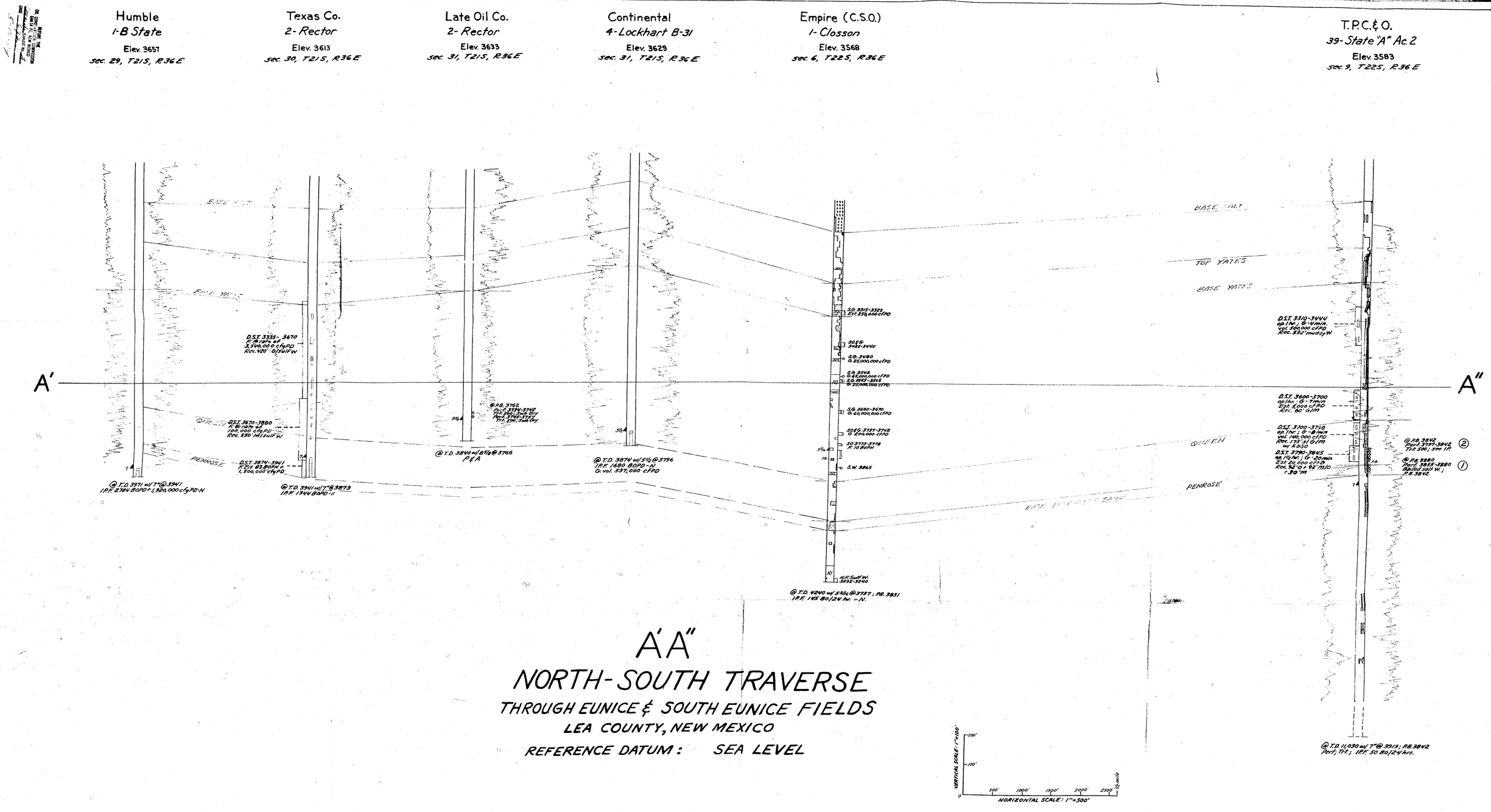
@ T.D. 3971 w/ 7" @ 3941
I.P.F. 2784 BOPD + 1,320,000 cfg PD-N

A'

AA'

SOUTH TRAVERSE
UMENT & EUNICE FIELDS
OUNTY, NEW MEXICO
ELATION OF THE WHITEHORSE
E DATUM: SEA LEVEL

VERTICAL SCALE: 1" = 100'
200'
100'
1000' 2000' 3000' 4000' 5000' mile
HORIZONTAL SCALE: 1" = 1000'



A'A"
NORTH-SOUTH TRAVERSE
THROUGH EUNICE & SOUTH EUNICE FIELDS
LEA COUNTY, NEW MEXICO
REFERENCE DATUM: SEA 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. 3, T20S, R37E

Se

BASE SALT

TOP YATES

BASE YATES

QUEEN

PENROSE

BASE PERMANENT SAND

B

D.S.T. 2275-2300
op. 4 hrs.
Rec. 213' SIG/M

D.S.T. 2815-2140
op. 1 hr.; G-3 min.
Rec. 610' HG/M

D.S.T. 2498-2750
op. 4 hrs.
Rec. 990' G/sulf W
+ 330' G & sulf w/M

D.S.T. 2750-2984
op. 1 hr. 23 min.
Rec. 35' M

D.S.T. 3055-3220
op. 4 hrs.; G-3 min.
Vol. 6.21,000 cfPD
Rec. 2' SIO/M

D.S.T. 2984-3170
op. 1 hr. 3 min.
G-2 min. + @ Calc.
44 MCF sulf WPH +
3,913,000 cfg/PD;
No Rec.

D.S.T. 3171-3300
op. 1 hr.; G-2 min.
Rec. Graft of 28 sulf W/m
+ 3,379,000 cfg PD
No Rec.

D.S.T. 3200-3298
op. 4 hrs. G-3 min.
Vol. 3,200,000 cfPD
Rec. 5' sulf. W

D.S.T. 3300-3440
op. 1 hr. 18 min.
Rec. 660' G/M

Perf. 3555-3720
TP. 2000 psi
Sand-oil frac. 2 gpg pal.
See Haw. L.P.
} a.w.w.o.

Perf. 3710-3820
TP. 500 psi
See Haw. L.P.
} a.w.w.o.

First Comp.
Tr. op. hole 3819-3950
w/2000 gal.

Perf. 3332-3598
TP. 2100 psi
Sub. 47.80 /11 hrs.
} a.w.w.o.

@ T.D. 3950 w/4½ @ 3819; Tr.A;
I.P.F. 1931 BOPD + 1,280,000 cfg PD

a.w.w.o.

@ T.D. 3950 w/2" liner (3780-3950)
Perf & Tr. as above

I.P.F. 73 BO/24 hrs (3710-3820)
IP absolute open flow
9,000,000 cfg PD (3555-3720)
} DUAL

@ T.D. 5727 w/7" @ 5717; P.B. 5715
Perf. & Comp. as Flowing well
from Blinebry Pay

@ T.D. 5710 w/5½ @ 5710
Perf. & Comp. as Flowing well
from Blinebry Pay

@ T.D. 5712 w/5" @ 5665
Comp. as Flowing well
from Blinebry Pay

@ T.D. 3960 w/4½ @ 3800
I.P.F. 1939 BOPD + 832.8 MCF/W-H
& Vol. 738,000 cf PD

Exhibit #4

BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
EXHIBIT No. 4
CASE 147

BB

WEST - EAST
THROUGH MONUMENT
LEA COUNTY, N.
SHOWING CORRELATION OF
REFERENCE DATUM:

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

BASE SALT

TOP YATES

BASE YATES

QUEEN

PENROSE
BASE FLOWING SAND

B'

@ T.D. 5118 w/5" @ 5065
Comp. as Flowing well
from Blinebry Pay

@ T.D. 3860 w/6⅝ @ 3800
TP 7398 BO/D + 252.3 BSW-N
G-vol. 738,000 CFPD

@ T.D. 3890 w/5½ @ 3503
P&A

TP 6000; 3830-3870
F&BH 42.2 w/12 Hrs.
from 3503-3836

@ T.D. 6300 w/5½ @ 6049
Comp. as Flowing well
from Drinkard Pay

T.D. 9302; No tests above 6743
P&A

VERTICAL SCALE: 1"=100'
200'
100'

1000' 2000' 3000' 4000' 5000'
HORIZONTAL SCALE: 1"=1000'

BB'

WEST-EAST TRAVERSE

THROUGH MONUMENT & SKAGGS FIELDS

LEA COUNTY, NEW MEXICO

SHOWING CORRELATION OF THE WHITEHORSE

REFERENCE DATUM: SEA LEVEL

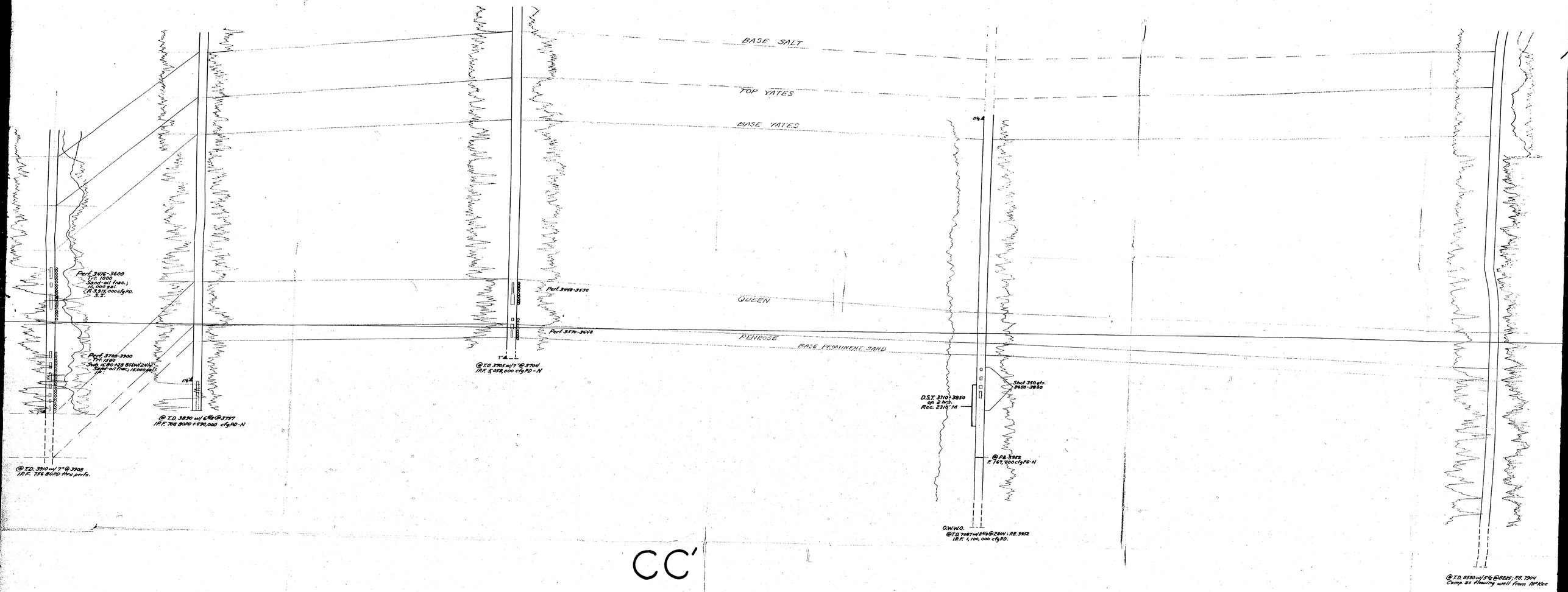
Amerada
2- State WE"A"
Elev. 3593
Sec. 12, T21S, R35E

Amerada
4- Houston
Elev. 3597
Sec. 7, T21S, R36E

Sinclair
9- Adkins
Elev. 3599
Sec. 9, T21S, R36E

Tide Water
1-O Marshall
Elev. 3535
Sec. 13, T21S, R36E

Amerada
5- State "DA"
Elev. 3474
sec. 16, T21S, R37E



CC'

WEST- EAST TRAVERSE

THROUGH EUNICE & PENROSE-SKELLY FIELDS
LEA COUNTY, NEW MEXICO
SHOWING CORRELATION OF THE WHITEHORSE
REFERENCE DATUM: SEA LEVEL

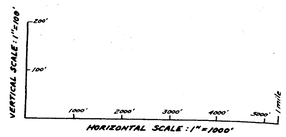


Exhibit # 5

AVERAGE BOTTOM HOLE PRESSURE

AVERAGE BOTTOM HOLE PRESSURE

NO. PRESSURES IN THIS AREA

PRESSURE AVERAGE IS FROM DASHED LINE IN DIRECTION OF ARROWS

KEUFFEL & ESSER CO.
NEW YORK

KEUFFEL & ESSER CO.
NEW YORK

Hinkle Exhibit No. 17
Case No. 693

SINCLAIR OIL CO
STATE (TYPE-3)
SEC. 16—T. 21 S.—R. 34 E.
ELEV.—3665

CONTINENTAL OIL CO.
LOCKHART A-32-3
SEC. 32—T. 21 S.—R. 34 E.
ELEV.—3624

CONTINENTAL OIL CO.
LOCKHART B-31-1
SEC. 31—T. 21 S.—R. 34 E.
ELEV.—3613

YATES

SEVEN RIVERS

QUEEN

SEA LEVEL

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

KEUFFEL & ESSER CO.
NEW YORK

Hinkle Exhibit No. 5
Case No. 693

CONTINENTAL OIL CO
LOCKHART B-28-9
SEC. 28—T. 21 S.—R. 34 E.
ELEV.—3613

CITIES SERVICE OIL CO.
YATES B-4
SEC. 13—T. 21 S.—R. 33 E.
ELEV.—3618

GULF OIL CORP.
VANDA #1
SEC. 13 B-T-21 S-R-33 E
ELEV.—3604

CITIES SERVICE OIL CO
GLENDON-A
SEC. 1—T. 22 S.—R. 32 E.
ELEV.—3611

[YATES]
YATES
SEVEN RIVERS
[SEVEN RIVERS]
[QUEEN]
[GRAYBURG]
QUEEN
SEA LEVEL

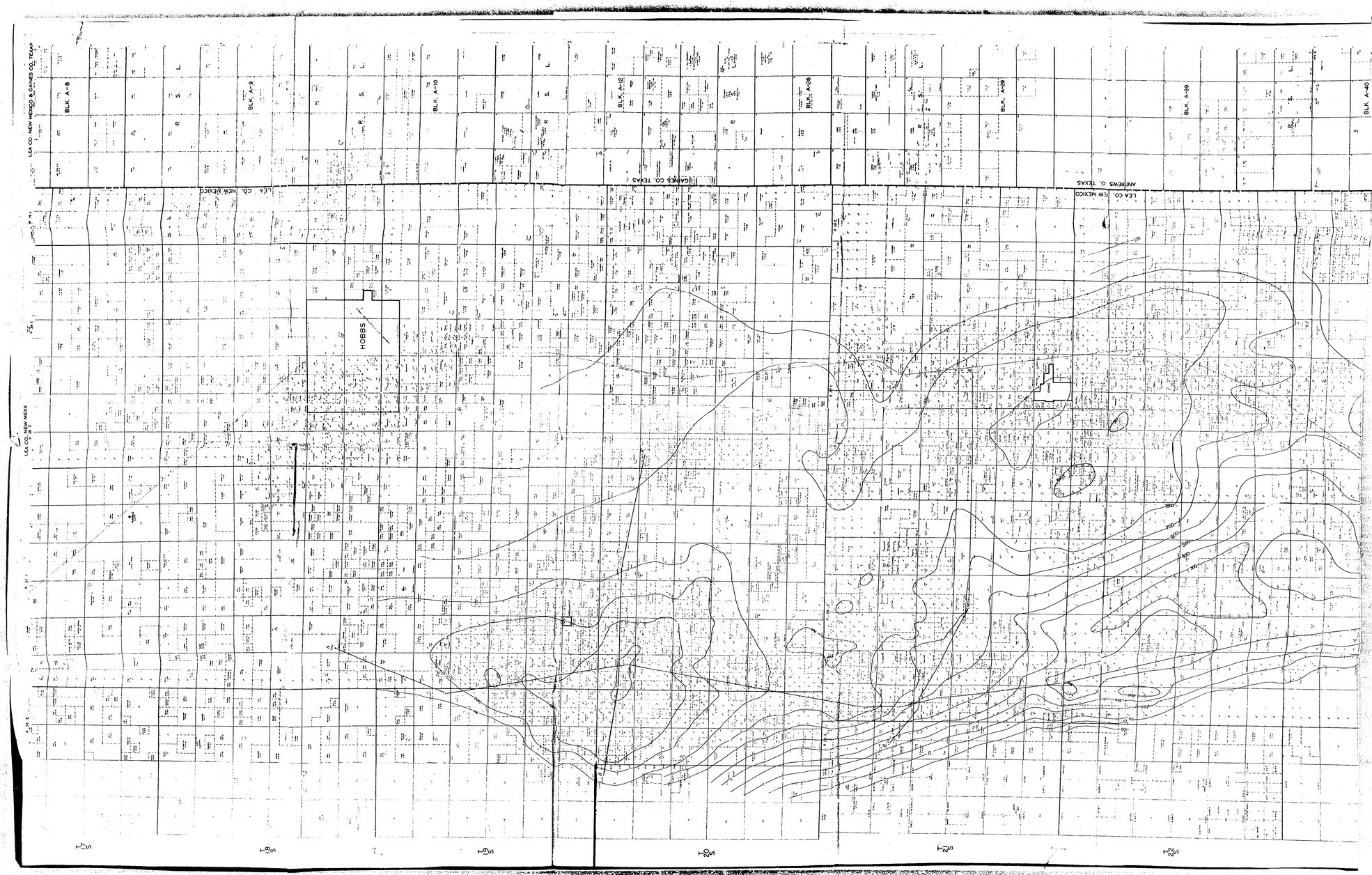
VERTICAL SCALE 1 in. = 100 Ft.
HORIZONTAL SCALE 1 in. = 2000 Ft.

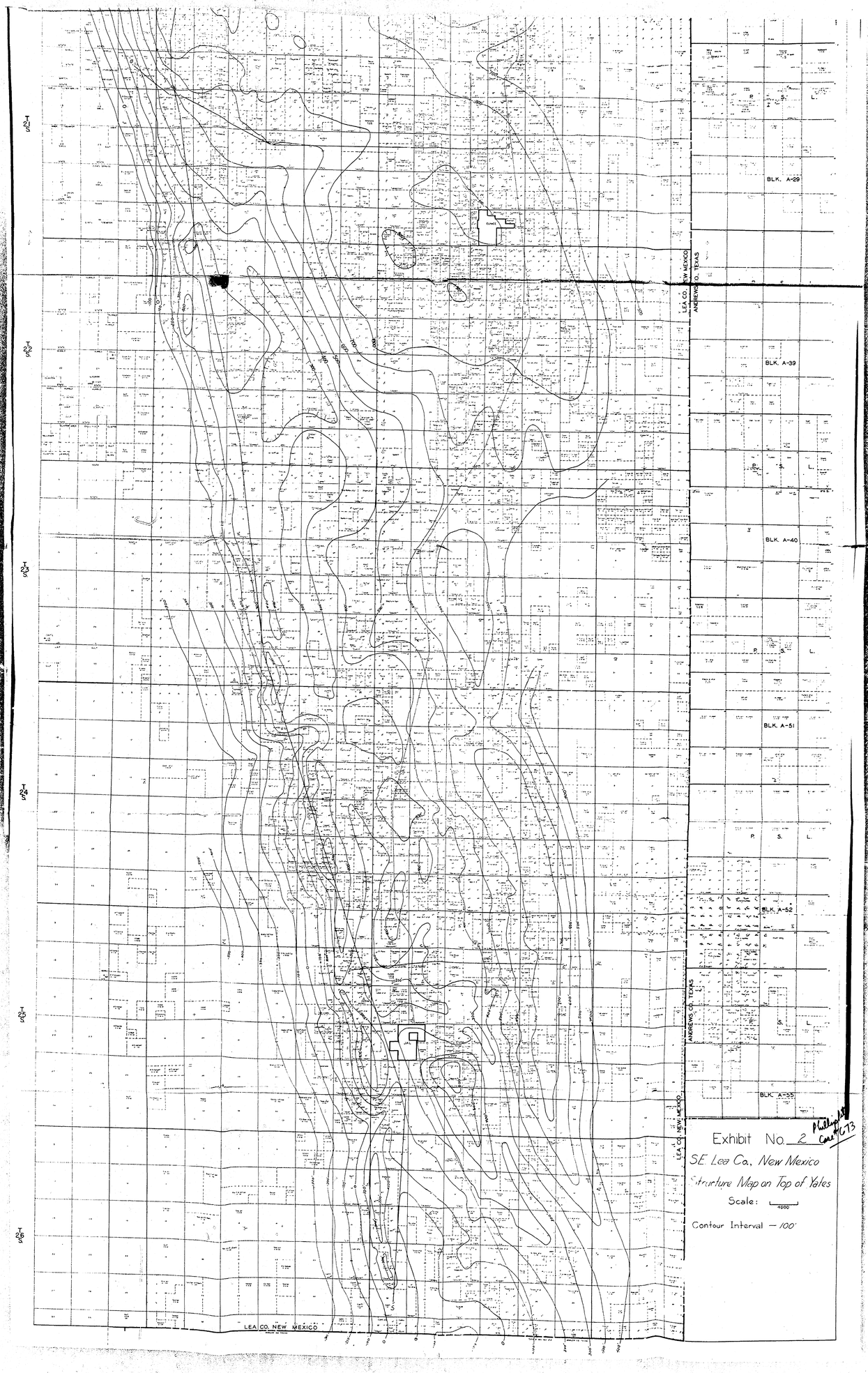
FORMATION NAMES INDICATED BY BRACKETS ARE AUTHORS. PETROLEUM CORP. PICKS.

VELPEL & VELSEY CO.
NEW YORK

STANDARD
CIRCLE SECTION 11 X 17
NO. 340 PRINTED
IN U.S.A.

Approved 6-27-52
Oil Conservation Commission


LEA CO. NEW MEXICO & GAINES CO. TEXAS
BLK. A-8
BLK. A-9
BLK. A-10
BLK. A-12
BLK. A-28
BLK. A-29
BLK. A-39
BLK. A-40
LEA CO. NEW MEXICO
GAINES CO. TEXAS
ANDREWS CO. TEXAS
LEA CO. NEW MEXICO
HOBBS
T 17 S
T 18 S
T 19 S
T 20 S
T 21 S
T 22 S


BLK. A-29
BLK. A-39
BLK. A-40
BLK. A-51
BLK. A-52
BLK. A-55
LEA CO. NEW MEXICO
ANDREWS CO. TEXAS
LEA CO. NEW MEXICO
ANDREWS CO. TEXAS
LEA CO. NEW MEXICO
T 23 S
T 24 S
T 25 S
T 26 S
Exhibit No. 2
SE Lea Co., New Mexico
Structure Map on Top of Yates
Scale:
Contour Interval — 100'

Continental
Meyer B-29 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 No 5
El 3597'

Top Yates

Top Seven Rivers

Sea Level

Scale
Hor 1" = 1000'
Ver 1" = 100'

OTD 2935 (-2495) PTD 3810 (-410)
I.P.F. 1200 BOPD GOR 2916 (11-9-36)
Developed high GOR rock in various pays
and bottomhole shots getting failed to
control. Also fished w/DP. Squeezed to
control. Also fished w/DP. Squeezed to
control. Also fished w/DP. Squeez

Continental
Meyer 'B' 33 No 1
El 3475

Texas & Pacific Coal & Oil
State 'A' AIC-1 No 10
El 3491

Continental
Lynn "A" 28 No 5
El 3432

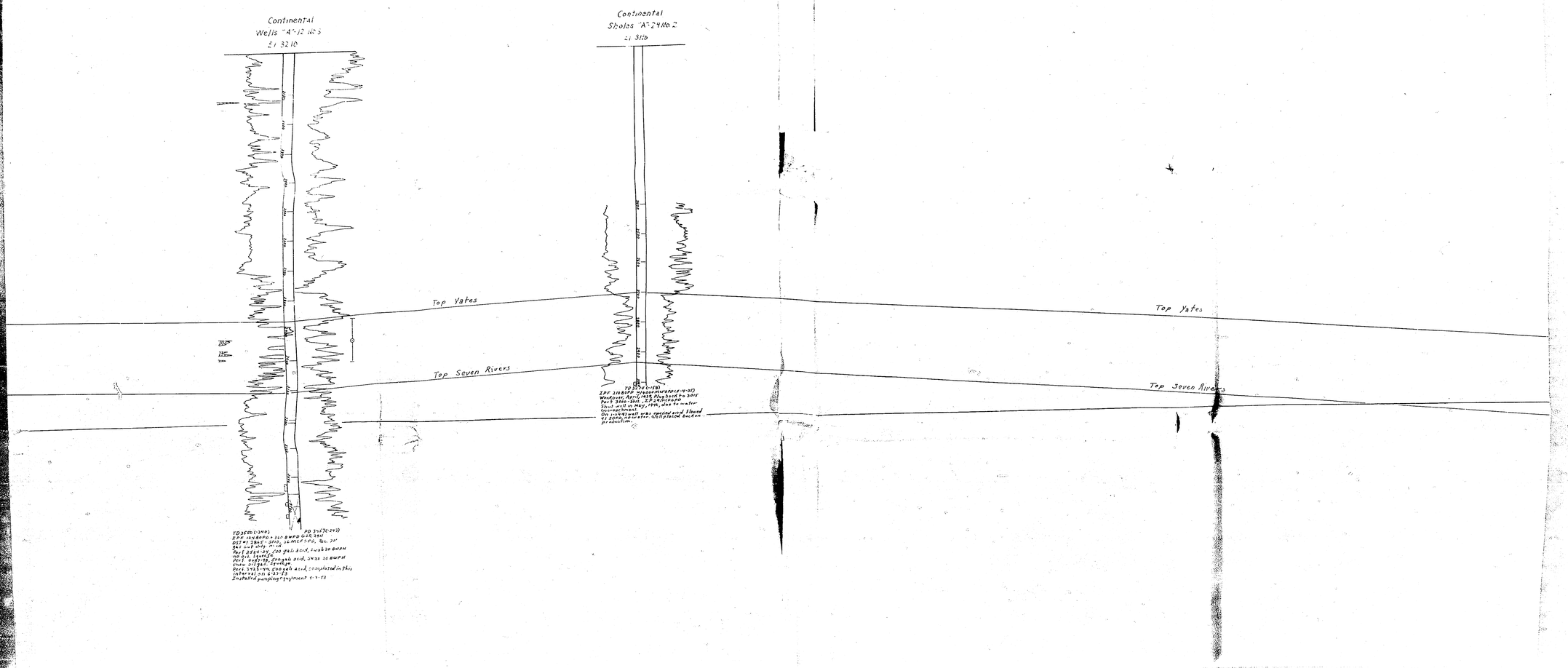
Continental
Gulf "A" 28 No 1
El 3330

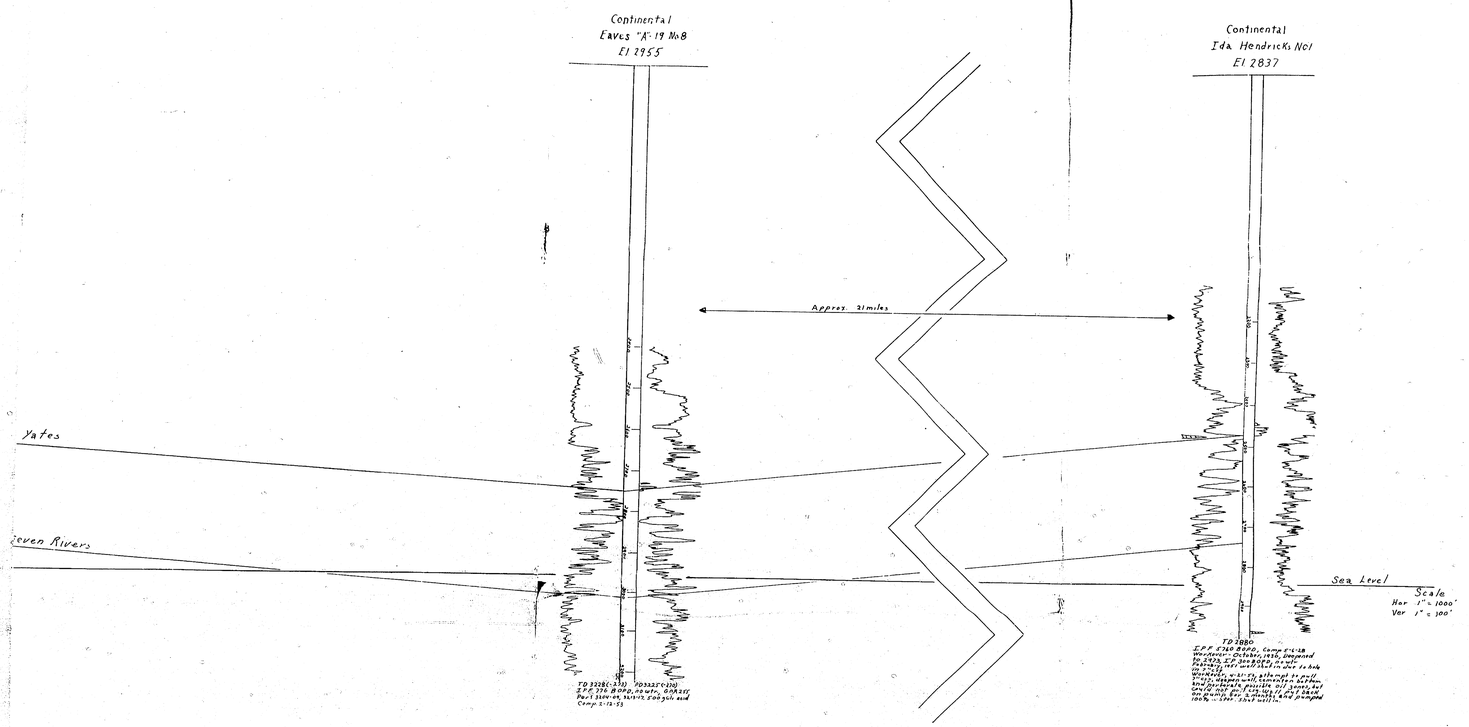
Top Yates

Top Seven Rivers

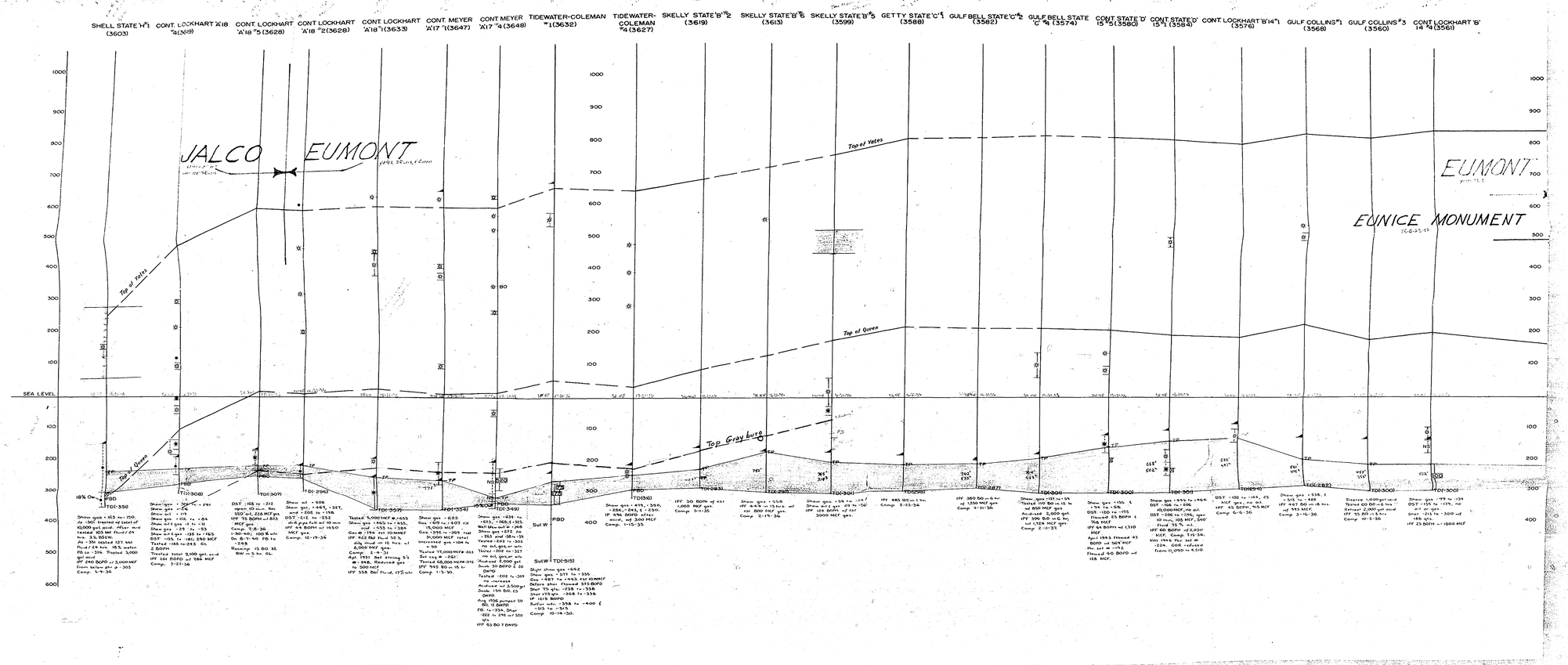
TD 3518 (-33)
PD 3290 (-185)
Perf 3320-3520
EPF 13,000 McFPD, no oil or wtr.
Completed 7-1-47
Interval 3470-98 soak 12 BWPH
Perf 3410-98, 1000 MCF gas, no oil or wtr.
DST #1 3380-3390, 1080 MCF gas, no wtr.
DST #2 3350-3367', 20' drlg mud, no oil or gas.
DST #3 3327-3337', 2980 MCF gas, no oil or wtr.
DST #4 3312-3400, TSTM GG, 180' mud, no wtr.
DST #5 3344-3445, 180 MCF gas, 84 bbls. 100% oil
DST #6 3487-3518, 210' mud, no oil, no gas, 10' slty wtr.
DST #7 3480-3510, rec. 480' oil cut wtr. 30' wtr.

TD 3378 (-137)
EPF 31,800 MCFPD
Perf 3327-3348, 3370-3400, 3410-3440, 3470-3498
Perf 3348-3370, 3400-3410, 3440-3470
Perf 3514-3520, 3527-3535, 3541-3549, 3557-3565, 3573-3581, 3589-3597, 3605-3613, 3621-3629, 3637-3645, 3653-3661, 3669-3677, 3685-3693, 3701-3709, 3717-3725, 3733-3741, 3749-3757, 3765-3773, 3781-3789, 3797-3805, 3813-3821, 3829-3837, 3845-3853, 3861-3869, 3877-3885, 3893-3901, 3909-3917, 3925-3933, 3941-3949, 3957-3965, 3973-3981, 3989-3997, 4005-4013, 4021-4029, 4037-4045, 4053-4061, 4069-4077, 4085-4093, 4101-4109, 4117-4125, 4133-4141, 4149-4157, 4165-4173,


Continental
Wells "A"-12 NCT
El 3210
Top Yates
Top Seven Rivers
TD 3570 (-360)
IPF 16 BBPD + 310 BWPD GOR 398
GTI #1 2845' - 2910, 16 MCF/D, Rec. 70'
Gel Frac 2845' - 2910
Perf 2834'-42', 2860'-68', 2878'-88' 4 SPF
Acidize 2834'-2888' 5 gals 20% HCL w/30 BWPH
Show oil gas - frac tank
Perf 3163'-74', 3198'-3208' 4 SPF
Acidize 3163'-3208' 2000

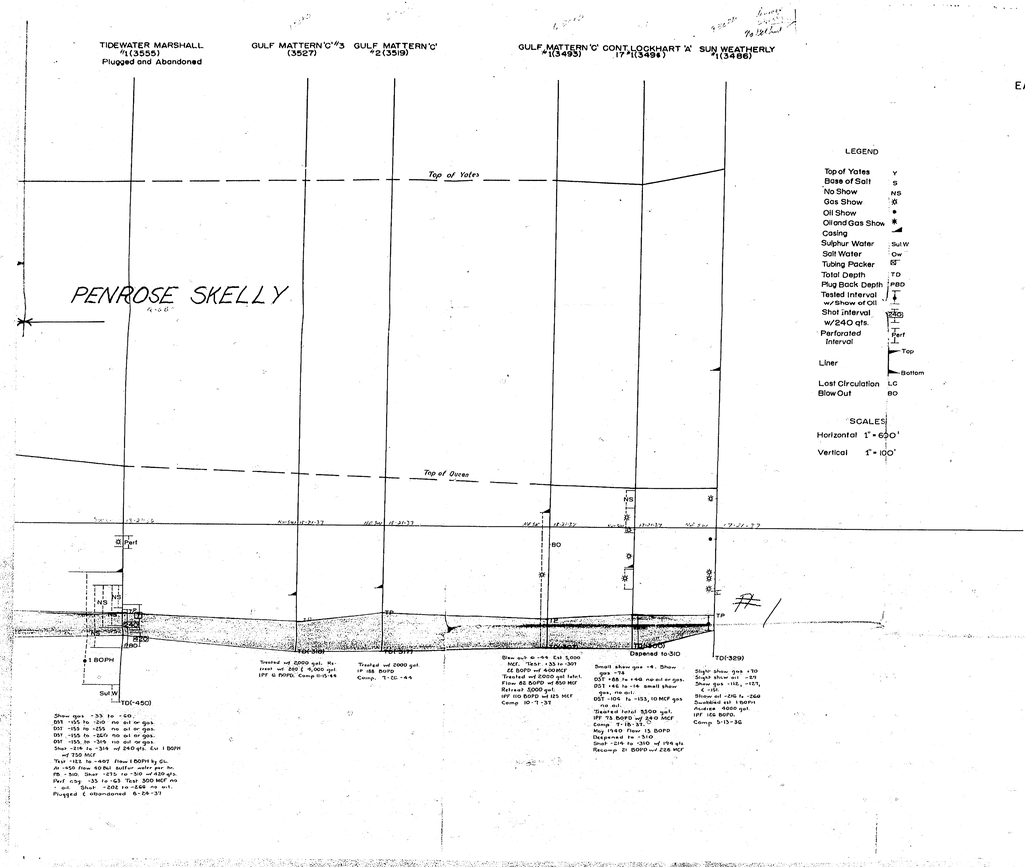

Continental
Eaves "A" 19 No 8
El 2955
Continental
Ida Hendricks No1
El 2837
Approx. 3 miles
Yates
Seven Rivers
Sea Level
Scale
Hor 1" = 1000'
Ver 1" = 100'
TD 2880

EXH. NO. 14


SHELL STATE "A"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
EUMONT
EUNICE MONUMENT
Top of Yates
Top of Queen
Top Grayburg
SEA LEVEL
PBD
TDF-3508
TDF-3079
TDF-2983
TDF-3057
TDF-3054
TDF-3049
TDF(3632)
TDF-2983
TDF-2971
TDF-3501
TDF-2877
TDF-3091
TDF-3001
TDF-3003
TDF(3619)
TDF(2882)
TDF-3000
TDF-3000
Sul W - TDF-5(5)

EAST-WEST SECTION T-21

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


TIDEWATER MARSHALL #1(3555) Plugged and Abandoned
GULF MATTERN'C' #3 (3527)
GULF MATTERN'C' #2(3519)
GULF MATTERN'C' #1(3493)
CONT LOCKHART 'A' 17 #1(3494)
SUN WEATHERLY #1(3486)
Top of Yates
PENROSE SKELLY
Top of Queen
Perf
NS
80
TD(-450)
80PH
Salt W
Dry
Treated w/ 2000 gal. Reamed w/ 200 & 4,500 gal IPF & 70BPD. Comp 9-15-44
Treated w/ 2000 gal IP 188 BOPD Comp. 7-10-44
Drlg
Drlg
Drlg

Phillips
Woolworth "C"
El. 3345'

Top of Yates

Top of Seven Rivers

T.D. 3553' (-1152)
I.P. 935 B&GW/19 hrs. (FLOWING)
GOR 1140
Current Status-Oil Well

Tests:
1-1135' to 1158' 30 BFPH & 1MMCFGPD

Phillips
Woolworth "A"
El. 3341'

T.D. 3509' (-1168)
I.P. 56 BOPH & 2MMCFGPD
Current Status P&A

Tests:
1 - 49' to 164' 19MMCFGPD & 60 BOPH
2 - 84' to 124' 7MMCFGPD & 53 B.OPH.

Phillips
El. 3340'

I.P. 35 B.OPH & 100,000 CFGPD

Tests
1-144' to 1231' 10 B.O. & 500,000 CF.G.P.D.

Humble
Thomas "J"
El. 3340'

T.D. 3602' (-1243)
P.B. 3430' (-1361)
I.P. 7,500 MCFGPD W/Some Wtr.

Tests:
1 - 37' to - 141' 14,000 MCF.G.P.D.
2 - 188' to - 216' 400 ft Sulfur Wtr. in 15 min
3 - 215' to 245' 30 ft mud Trace of Oil
4 - 225' to 252' 15 ft mud No Oil, Gas or Wtr.
5 - 215' to 262' 1800 ft Sulfur Wtr. in 1 hr

Humble
Thomas "J"
El. 3334'

T.D. 3193' (-1141)
I.P. 350 BOPD & 70% GOR 1140

Humble
Thomas "J"
El. 3336'

T.D. 3810'
I.P. 168 BOPD
Rec. 1654' Oil
GOR 442 I.P. 1904

Culberson & Irwin
Thomas "J"
El. 3320'

TOP OF YATES

T.D. 3278' (OIL)
I.P. 50 B.O.P.D. (1350)

Culberson & Irwin
Thomas "J"
El. 3305'

T.D. 3250' (OIL)
I.P. 548 BOPD + 25 MW (10-25-38)

Culberson & Irwin
Thomas "J"
El. 3304'

Top of Yates

T.D. 3538' (OIL)
I.P. 358 BOPD (10-11-38)

Amerada
El. 3292'

T.D. 3361' (OIL)
Flow 23.7 B.O.P.D. G/O 715
(3-22-38)

DST #208 to 418 30 min 2nd
DST #228 to 418 30 min 3rd
Rec. 1465' G.I.P.
Rec. 229 ft. Oil 15 ft. & 1000 Gal. Flow
196 B.O.P.D. 33.7° A

Amerada
El. 3292'

I.P. 397.2 B.O.P.D. G/O 1445
(3-31-38)

Tests:
DST #1 - 3317 to - 3357 ft. 45 30/45/45 w/ 8 MCF/BO/FD
DST #2 - 3355 to - 3378 Open 4 hr. Gas in 20 mins.
Gas measurements: Rec. 5127 ft. of G.C.O. & W.
DST #3 - 3370 to - 3387 Open 4 hrs. F/ 342 MCF/BPD
No. 2"
Perfs
+228 to +215 & +206 to +193 Wash 500 Gal. mud acid

Top of Yates

Top of Queen

T.D. 3430' (-350)
I.P.F. 14,000 MCFGPD thru Csg SIP 1420psi
also Shows, TPF 10 MMCFGPD thru Casing
(7-18-39)

Tests:
D.S.T.#1 Thru Csg. -27'to-307'
375 MCFGPD (36 B.O.P.D.) Natural
Treated w/2000 Gal Small Increase
Shall w/1400 lbs. Frac -247' to -327'

T.D. 3425' (-350)
I.P.F. 30 B.O.P.D. (+125 MCFG.P.D.
(9-14-39)
Show Gas at + 26.5'
Show Gas + 11.3' to +23'

Tests:
D.S.T.#1 Thru Csg. -27'to-307'
375 MCFGPD (36 B.O.P.D.) Natural
Treated w/2000 Gal Small Increase
Shall w/1400 lbs. Frac -247' to -327'
D.S.T.#2 Thru csg. +58'to +247'
20 MMCFGPD
D.S.T.#3 +242' to +342' 6MMCFGPD
D.S.T.#4 +34' to -76' 2.5 TM Gas
D.S.T.#5 +34' to -176' 3.5MMCFGPD
D.S.T.#6 +34' to -230' 6MMCFGPD
Show of Oil at -193'
D.S.T.#7 +32' to -307' 5750 MCFGPD
Show Oil at -325'
D.S.T.#8 -208' to -343' 18LMCFGPD
D.S.T.#9 -289' to -360' Rec 60' fluid
SI Show Gas.

T.D. 3459' (-359)
I.P.F. 105 B.O.P.D. (+3.5 MCFGPD on 4" Csg.
no Gas Tested
Tests:
D.S.T.#1 Thru Csg. -48' to -355' TSTM 1089' Fl
(11,400 CF. IPD
D.S.T.#2 Thru Csg. -228' to -317' 1580 MMH
555 MCFGPD
D.S.T.#3 Thru Csg. -202' to -315' 5 BOPD.
45 MCF GPD
D.S.T.#4 Thru Csg. -47' to -315' 183 BO/hour.
1650 MCFGPD Shall -327' to -348' w/1400 gals.
D.S.T.#5 After Shot Thru Csg -328' to -348'
108 B.O/hr. Rec / 2530 MCFGPD.

T.D. 3556' (-327)
I.P.F. 20 BO/hr. & 190 M.C.F.G.P.D.
(5-17-39)
Rework: Sept 1942, Clean out to
T.D. (-327) Tested 10 B.O.P.D. & 1 MMCFGPD
Show Gas +1.5'-+2.5'

Tests:
D.S.T.#1 Thru Csg. -32' to -300' 330 MCFGPD,
Small Show of Oil.
D.S.T.#2 Thru Csg. +32' to -322' 306 B.O.P.D.
on Oil.
Shut -202' to -322' w/1860 gals

OTD 3556'(-309') New TD 3705'(+456')
I.P.F. 35 B.O.P.H. 30MCFG.P.D.
(11-28-51)

Tests:
D.S.T.#1 -227' to -309' Swb. 70 BOPH, Natural
Shut -153' to -309' w/1340 gals.
Remark:
A. Before waiver produced 21 BOPD, Cleaned
out to T.D. in Oct, 1939. GL ++ BOPD. (Jetting)
Two weeks later, prod. 35 B.O.P.D. (Jetting)
B. Install pump Jan, 1940. PP 34 B.O.P.D. Rapid
decline to 20 B.O.P.D.
C. Nov, 1940, pog 18 B.O.P.D. Clean out to T.D.
Install 10mm G.L. Prod. 15 B.O.P.D.
D. April, 1941, GL. 6 B.O.P.D.
E. April, 1946, GL. 2 B.O.P.D.
F. June 1946 O.O. to -458' Shot -305' to -414' No Prod
@ (1) Perf. +370 to +42 No Gas (2) Perf. + 425' to + 87' No Gas
no 1 & 2 Open (3) Perf. +134' to +105' 13MMCF/G.P.D.
No 1, 2 & 3 open (4) Perf. +47' to +19' 13.8MMCF.G.P.D.
(inc. 4750) No 1, 2 & 4 open (5) Perf. +106' to +82' 1230 MCFGPD
(inc. 420) No 1, 2 & 5 open (6) Perf. +88' to +70' 1630 MCFGPD
(no one) Also 4 open (7) +107' to -217' 1630 MCFGPD (inc 561 Mcf from
(80-297) or 2211 2550 MCFGPD Inc 700 Mcf from Stray (8) +229' to +197'
2580 MCFGPD (No Inc.) (1 thru 5 open) (8) Report w/Ltd perf
+229' to -102' +88' to +68' 1M + 480 MCFGPD Stabilized, +208' to +142'
Back press test Quite 4-15-52

T.D. 3562' (-333')
I.P.F. 1020 B/A Hr. & 96 MCFGPD
(10-25-37)
SI Sh. Oil +507' to 507' SI Sh Gas +32'
Sh Gas +76' to +473' Est 80MMCFGPD
Inc Gas +" SI Sh. Oil +494'
Sh Gas +76' to +204', Show Oil -276'

T.D. 3484' (-265')
I.P.F. 61 BO/hr. & 1021 MCFGPD
(4-15-37)
Test:
D.S.T.#1 +14' to -258' 432 BO/16 hours
Show Gas +139' to 507' 5081 MCFGPD
Inc Gas +154' 2400 MCFGPD to SI
Show Gas +57', Show Gas +92'
Show Oil & Gas -218' inc. Oil -238'

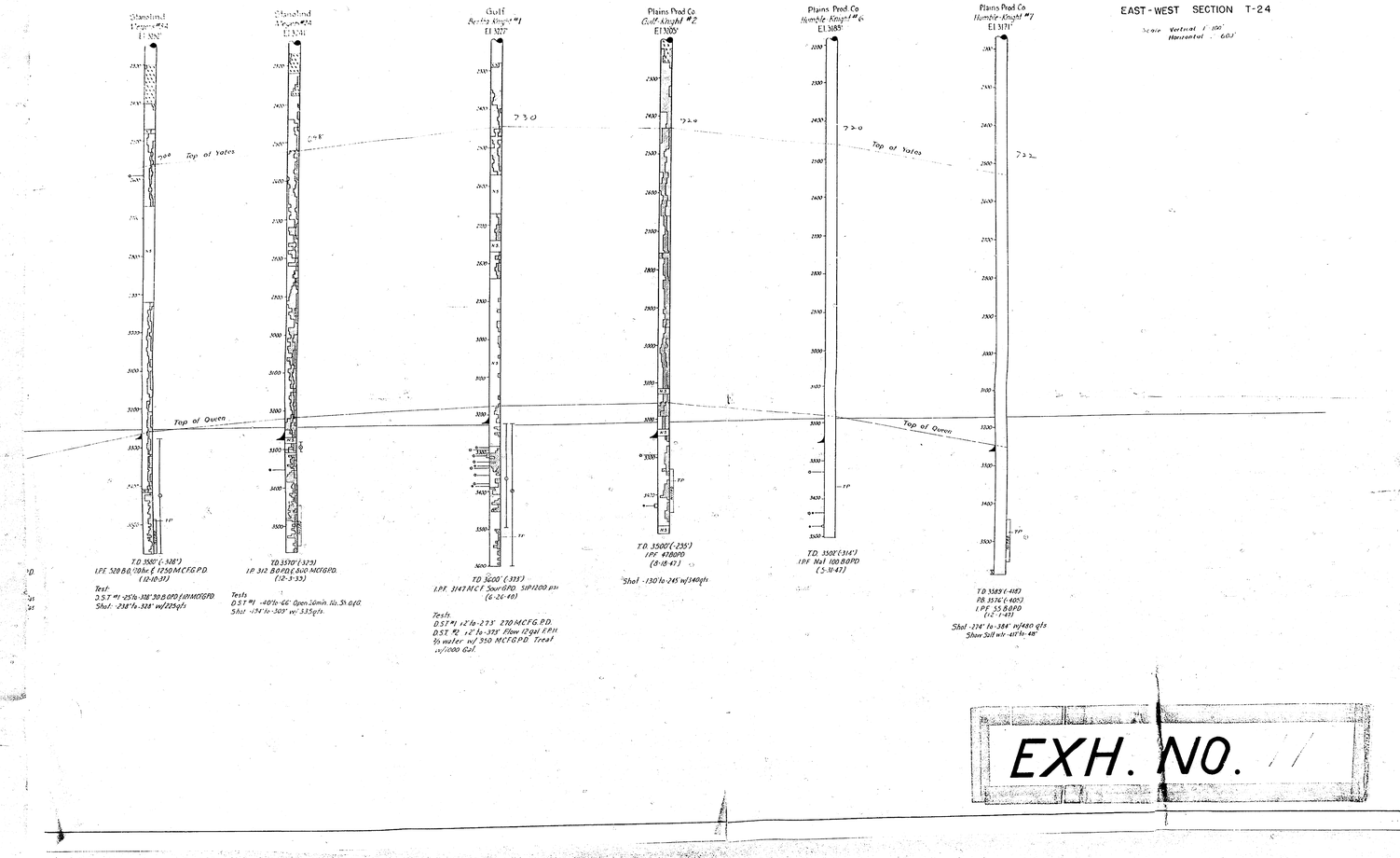
T.D. 3539' (-3
I.P. Flow 281 B.O./12 hr. (1-4-51) MCFGPD
Show Gas +681', Show Oil -182' to Csg, Strong Gas
Aug. 1938 Deepened to 3652' Recomplete: 250 BO/ Before ward Flow

T.D. 3503' (-359')
I.P.F. 250 B.O.P.D. & 1 MMCFGPD thru Csg
(7-20-37)
Show Gas +615, Show Oil -215' to -221'
Show Oil -235' to -255', Show Oil -326' to -330'
Tstd Pkr -50' to -55' Flow 36 B.O.P.D.
35 sd -220' to -347' w/1200 gals

T.D. 3565' (-361')
I.P.F. 135 B.O.P.D. & 46 MCFGPD
(5-23-38)
Tests:
D.S.T.#1 -106' to 200' No Oil or G
D.S.T.#2 -72' to -315' No Oil or G
Shot: -205' to -309' w/ 200 gals

EAST - WEST SECTION T-24

Scale Vertical 1" = 100'
Horizontal = 660'



EXH. NO. 11

BARNSDALL
FORREST NO.1
ELEV. 3091

SOUTHERN PET. CORP.
ASCARATE NO.1-B
ELEV. 3095

CONOCO
ASCARATE D-24 NO.1
ELEV. 3130

CONOCO
SHOLES A-24 NO.3
ELEV. 3082

CONOCO
SHOLES A-19 NO.1
ELEV. 3067

CONOCO
SHOLES B-19 NO. 2
ELEV. 3107

LEONARD-LEVERS
JUSTIS NO.1-A
ELEV. 3071

LEONARD
JUSTIS NO.1
ELEV. 3067

800
600
400
200
S.L.
-200
-400
-600

Top of Yates

TP

PERF.
PBD

Test *1: -101 to -150 gsd. 13MMCFGPD
Test *2: -151 to -190 2MMCFGPD
*1606 BOPD

Show gas +173 to +151
DST #1: -53 to -120 open 15 min.
Rec. 200' oil cut mud.
DST *2: -1248 to -1184 5MMCFGPD
Comp.: -1248 to -211 30 BOPH
Est. 1 MMCFGPD
Date: 4-17-35

Test *1: Perf -106 to 115 Swb 12 BWPH
Test *2: Perf -90 to -100 Swb 10 BWPH
Test *3: Perf -71 to -84 Flwd 80+72 BW/4Hr.
Test *4: Perf -60 to -67 Swb. 15 BWPH
Test *5: Perf -48 to -59 Swb 15 BWPH
Test *6: Perf -36 to -42 & -24 to -32
Swb 15 BWPH
Test *7: Perf -14 to +12 & +10 to +16
Treat 500 gal. 390 MCFGPD
Re-treat 1000 gal. 2830 MCFGPD
Test *8: Perf +31 to +36 & +38 to +54
& -14 to +12 & +19 to +16
Tested 2830 MCFGPD
Treat 3000 gal. Tested 15C BWPH
Test *9: +84 to +78 & +74 to +72 12 BWPH
Test *9a: +101 & +90 Treat 500 gal. Dry
Test *10: Perf +148 to +140
+139 to +134
+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 860 MCF SIP 340-3

1. Perf. -98 to -106 Swb 21 BWPH
2. Perf. -50 to -60 Swb 14 BWPH
3. Perf. -14 to -19 Swb 15 BWPH
4. Perf. +35 to +23 } Swb. 15 BWPH
+98 to +35 }
5. Perf. +96 to +92 } Swb. 12 BWPH
+86 to +80 }
Completion: Perf. +121 to +117
+115 to +112
+106 to +105
Flow 242 Bbl/Hr.
895 MCFGPD
Date: 8-22-47

Show gas +517 Brown lime
Show gas +438 Brown lime
Show gas +377 to +367
Show gas +333 to 332 Est 15 MMCFGPD
Show gas at TD 1242 Est 35 MMCFGPD
SI. show oil +277
SI. incr gas +272
Test #1 at TD +247. 15 MMCFGPD
Show oil: +241 to +231
Incr gas +140
Ran 8 5/8" csg. to +123 not cmt'd.
Show gas +82
Incr gas +54
Incr gas +49 7 to +37 70 MMCFGPD
Pulled 8 5/8 csg but left 200' somewhere in hole.
Note: 8 5/8" csg. not cmt'd in hole from +123 to 332
Completion: 70 MMCFGPD Date: 11-7-28

Workover: Dec. 1931
Found 8" csg. collapsed
Set 3 1/2" & Tested 1/ 300
Comp: 9 MMCFGPD
Date: 6-7-50 SI Wellhead press: 732 psi.
6-14-50 Open flow 1,180 MCFGPD

Comp: Back press test open flow 4220 MCFGPD
SIP 792 psi.
Date: 9-9-48
Date: 9-7-39 SIP 724 psi
6-14-50 open flow 1780 MCFGPD
Stopped pool gas into HP system 7-13-52 &
began flowing about 20 BOPD. Still prod.
11 BOPD. GOR 36,210.

SI. show oil +366 to +358
Show gas +328
Incr. gas +281 to +276 gsd 28,249 MCF

Show gas +385 to +315; +216 to +212, +207 to +197,
+21 to +11. Show oil -134 to -143, -168 to -178, -198 to
-211, -236 to -233, -255 to -258.
10-22-35: -478 to -328, 11 B.O. & 13 B.W.P.D. P.B. to +95
10-25-35: Shot from +134 to +91 w/ 2.8 qts (10), No results.
10-26-35: Well blew in, est. 25,000 MCF.
11-5-35: Tested est. 25 B.O.P.D. & 3000 MCFPD, 2" @
+89. T.P. 380 psi, Comp. 5-15-36. T.D. -434, P.B. +91.
7-19-38: Cleaned out to +212. 6 bailed, 10 BOPD.
11-11-38: Cleaned out to +167. Perf. at +117.
CP. Flowed, 52 B.O/4 days & est 1500 MCF.
Comp. 10-16-38.

Show gas
Show o
Show g
Show g
Blow 2
Ret'd
Comp:

EAST-WEST SECTION T-25

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

JAL NAT. GAS
JUSTIS NO. 2
ELEV. 3056

ANDERSON-PRITCHARD
CARLSON NO. 2
ELEV. 3072

LEONARD
LANEHART NO. 2
ELEV. 3067

LEONARD
LANEHART NO. 1
ELEV. 3078

ARGO ROYALTY CO.
LANEHART NO. 1
ELEV. 3071

AMERADA
STUART NO. 1
ELEV. 3075

AMERADA
STUART NO. 1-B
ELEV. 3073

CITIES SERVICE
DABBS NO. 2
ELEV. 3076

WESTERN GAS
WIMBERLY NO. 1
ELEV. 3090

OLSON ET AL
WIMBERLY NO. 1
ELEV. 3101

800
600
400
200
S.L.
200
400
600

Top of Yates

Top of Queen

...t +251
...as +222 blew bad w/ b/o
...as +138 to +131 Est. 10 MMCFGPD
...il +26 Est. 60 BOPD + 1 MMCFGPD
...Z Flow est. 60 BOPD + 1000 MCFGPD
Plug off +61 T.D. +27
Flowed 35 BOPD + 8 MMCFGPD
Date: 8-1-37

Show gas +214 to +207
Incr. gas +201 to +197
Good show oil +197 to +191
At +191 est. 4-5 BOPH
Incr. oil +172 to +167
Shot +194 to +187 w/150 qts.
Flowed 60 BOPD
Deepened to +122
Comp: Set Plug +242 TD +122
Flow 69 BOPD o/o 1200
Date: 2-27-37

Workover: Deepen to +82
Flow 54 BOPD
Shot +81 to +62 w/220 qts.
Recompleted: 65 BOPD + 150 MCFGPD
Date: 4-5-38

Show gas +157
At depth of +149 flowed 124 BOPH
At depth of +132 flowed 285 BOPH
+15 MMCFGPD
Comp: on choke 9 BOPH
Date: 7-19-36

SL show O & G +230
Show O & G +104 to +106 SL show oil
& +1300 MCFGPD
Set 7" csg at +88
Test #1: +88 to +72 22 BO/12 hrs
& 4,880 MCFGPD
This is initial Comp: 9-28-36

Recomp: Deepened
Test #2: at 10-21 flowed 1120 B/24 hrs.
Show gas -10 to -26
Show gas -31 to -35 Est. 10 MMCFGPD
SLM Sltr. +3187
Squeeze off bottom 7" at bk(s) to +35 sheet
Show gas -75
Test #3: -161 to -367 drg
P.B. to +73
Perf 5½" csg -168 to -174
Cap at +5' TD +367 P.B. to perfs
Recomp: 27 BOPD thru perfs -168 to -174
1½ MMCFGPD Date 5-10-37

Show gas +261
Show gas +135 to +127
Show gas +111
Show gas +46 to +36 Est. 1 MMCFGPD
Show gas +22 to +18 Est. 2-3 MMCFGPD
Show Oil +2
Incr. gas +2
Show gas +20 to -36
Show Oil +180 to +180
Slt. show gas -339
280 ft. of oil in hole -354 to -559
More wtr. -540 to -554
P.B. to -498
Cut 7" csg off at -421
Shot inside 7" liner -416 to -4 w/4 pgts.
Comp: T-B MMCFGPD Date: 12-22-36

(Long: TD -411 to -507
8¾" Sand to +313)

Show gas +257
Show gas -25 to -60
Show gas -216 to -223
Show O & G -227 to -231
Comp: -210 to -270
139 226 80/8 hr.
315 MCFGPD
Date: 5-3-38

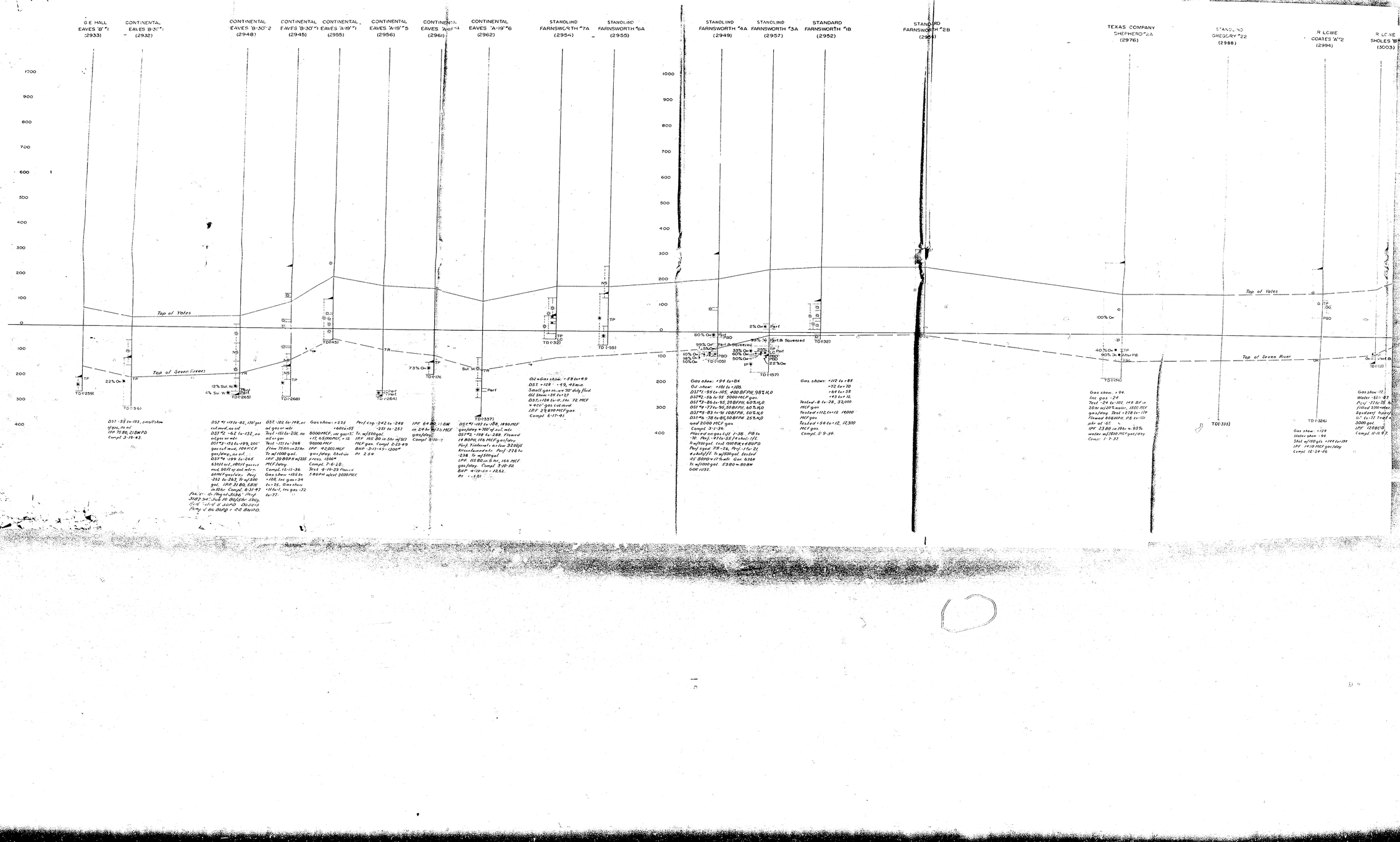
Show gas -400, -385, -119
Show Oil -255, -268, -274, -285
Comp: IPF 111 80/10½ hr. 6/0 530
Date: 5-21-39

Before shot sub 12 BOPH at TD
Shot -194 to -284 w/220 qts.
Comp: Flowed 320 BO in 12 hrs.
Date: 5-8-39

Show gas +346 to +331
Show Oil -40 to -50
Perf -165 to -235 Tested show
salt wtr. & show oil
Comp: Perf -145 to -165
2½ MMCFGPD SIP 1100 psi.
Date: 5-29-43

DST #1: +211 to +186
Rec 180' mud
60' SLOCGCM

EXH. NO. 12


G E HALL
EAVES 'B' #1
(2933)
CONTINENTAL
EAVES B-30' #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
(2954)
TEXAS COMPANY
SHEPHERD #2A
(2976)
STANOLIND
GREGORY #22
(2988)
R LOWE
COATES 'A' #2
(2994)
R LOWE
SHOLES 'B' #1
(3003)
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 (-359)
TD (-269)
TD (-268)
TD (-264)
TD (-176)
TD (-337)
TD (-332)
TD (-55)
TD (-100)
TD (-157)
TD (-32)
TD (-174)
TD (-333)
TD (-326)
TD (-2)
22% Oil
12% Sul. Wtr.
4% Sul. Wtr.
73% Oil
60% Oil
99% Oil
95% Oil
60% Oil
30% Oil
33% Oil
60% Oil
50% Oil
22% Oil
2% Oil
100% Oil
40% Oil
90% Oil
Part
Part & Squeezed
LC Part
Sul. Wtr.
PBD
TP
NS
7R
DST -55' to-153', small show of gas, no oil
IHP 7586, FIBHP 0
Compl. 3-19-43.
DST #1 -113' to -162', 210' gas cut mud, no oil
DST #2 -162' to -132', no oil gas or wtr.
DST #3 -132' to -199', 200' gas cut mud, 1891 MCF gas/day, no oil
DST #4 -199' to -265' 6350' tot., 1801' gassy cut mud, 50' fr. oil, wtr. 60 MCF gas/day. Perf -252' to -263', Tr. w/500 gal. IHP 3180, FBHP 1830 in 10 hr. Compl. 8-31-57
Fm. 3rd Bkg. at 3136'. Perf. 3107-34'. Tool 10 BO/10hr. 30cg. Grav. 41.4° @ 60°F. GOR 1052. Prod. 6 BO & 2 BW/D.
DST -102' to -148', no oil or gas or wtr.
Test -151' to -201', no oil or gas
Test -121' to -268'
Flow 7580 in 2 hr.
Tr. w/ 1000 gal.
IHP 3080 FBHP 1225
MCF/day
Compl. 12-11-36.
Gas show -193' to -202', Tr. oil & gas or wtr.
Test -151' to -201', no oil or gas
Test -121' to -268'
Flow 7580 in 2 hr.
Tr. w/ 1000 gal.
IHP 3080 FBHP 1225
MCF/day
Compl. 12-11-36.
Gas show -193' to -252', Tr. oil & gas
Test -151' to -201', no oil or gas
Test -121' to -268'
Flow 7580 in 2 hr.
Tr. w/ 1000 gal.
IHP 3080 FBHP 1225
MCF/day
Compl. 12-11-36.
Gas show -193' to -252', Tr. oil & gas
-252' to -263', Tr. w/500 gal. IHP 3180, FBHP in 10 hr. Compl. 8-31-57
Fm. 3rd Bkg. at 3136'. Perf. 3107-34'. Tool 10 BO/10hr. 30cg. Grav. 41.4° @ 60°F. GOR 1052. Prod. 6 BO & 2 BW/D.
Gas show: +225' -60' to +55'
8000 MCF, inc gas -2' to -25'
+12, 6,000 MCF, + 12
98000 MCF
IHP 92,000 MCF
gas/day. Shut-in
press. 1300#
Compl. 7-6-28.
Test 4-19-35 Flow in 5 BOPH w/est 2000 MCF
Perf cog. -242' to -248'
-251' to -257'
Tr. w/500 gal.
IFP 162.20 in 5 hr w/517 MCF gas. Compl. 2-23-49
BHP -3-1'-45'-1300#
PI 2.5-9
IHP 64 BO + 1 BW in 24 hr w/1.5 MCF 903 ft/day
Compl. 8-16-7
DST #1 -101' to -186, 1890 MCF gas/day + 200' of oil, wtr.
DST #2 -198' to -288. Flowed 14 BO/H, 116 MCF gas/day.
Perf. 7 intervals -at bw 3208 ft
Abandoned etc. Perf -228' to -238'. Tr w/500 gal.
IFP 115.80 in 5 hr, 168 MCF gas/day. Compl. 3-10-50.
BHP 4-10-30-1252.
PI -4.81
Oil + Gas show: +58' to +9
DST: +128' -+9, 45 min.
Small gas to surface 70' oily fluid.
Oil Show -38' to -52'
DST: +128' to -11', Rec. 72 MCF + 900' gas cut mud
IBF 2,980 MCF/D gas
Compl. 6-17-91.
Gas show: +94' to +84'
Oil show: +10' to +100.
DST #1 -95' to -105', 400 BFPH, 98% H2O
DST #2 -56' to -95' 5000 MCF/D gas.
DST #3 -86' to -95', 208 FPH, 60% H2O
DST #4 -77' to -95, 508 BFPH, 60% H2O
DST #5 -83' to -91' 108 BFPH, 50% H2O
DST #6 -78' to -85, 508 BFPH 25% H2O and 2000 MCF/D gas.
Compl. 3-1'-36.
Placed on gas 1-11 1-38. PB to -30'. Perf. -976' to -53' & shot: 1/2 bottle/100 gal. test 1500 BO + 4 BOPD Perf. 992' to 998' -976, Perf. -964' to -21' & shot 1/2 bottle/100 gal. tested 45 BOPD + 17% wtr. Gor. 6766 Tr. w/1000 gal. 23,000 - 80 BW GOR 1052.
Gas shows: +112' to +88'
+72' to +70
+64' to +58
+43' to +12.
Tested -8' to -28', 32,000 MCF/D gas
Tested +112' to +12, 14000 MCF/D gas
Tested +54' to +12, 12,300 MCF/D gas.
Compl. 2-9-39.
Gas show: +94.
Inc. gas -24'
Test -24' to -102', 145 BF in 20 hr w/20% water, 1500 MCF gas/day. Test +278' to -179'. Flowed 80 BWPH, PB to -101' abn. at -65'.
IPF 23.80 in 10 hr w. 93% water w/3800 MCF gas/day
Compl. 1-7-32
Gas show: +17'
Water +82' to -87'
Perf. +72' to -75' & filled 3200 water. Squeezed. Hard to get 6" to -77' Tried 3000 gal.
IPF 1208 BO
Compl. 11-11-47.
Gas show -129'
Water show -94'
Shot w/ 150 qts + 999 for IPF
IPF 14.10 MCF gas/day
Compl. 12-24-36.

STANOLIND GREGORY #22 (2988)

R LOWE COATES 'A' #2 (2994)

R LOWE SHOLES #4 (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 #A (3149)

REPOLLO STEPHENS #2A (3152)

REPOLLO GLOYD #1 (3159)

REPOLLO GLOYD #2 (3179)

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

CONTINENTAL WELLS 'A12' #1 (3215)

BYRD-FROST WELLS 'A1' #1 (3245)

GULF ABBOTT 'A' STATE #2 (3262)

TEXAS CO OGG #5 (3275)

TEXAS CO OGG #5 (3275)

TEXAS CO OGG #1 (3276)

TEXAS CO OGG #2 (3287)

TIDEWATER WOOLWORTH #1 (3.0)

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

Top of Yates

Top of Seven River

TD(-335)

TD(-326)

TD(-102)

TD(-63)

TD(-6)

TD(109)

TD(12G)

TD(108)

TD(-61)

TD(-158)

TD(-176)

TD(-178)

TD(-153)

TD(-16)

TD(-147)

TD(-189)

TD(-234)

TD(-280)

TD(-205)

TD(-180)

TD(-247)

TD(-254)

Gas show -77
Water - 82/64"
Perf -72 to 75, filled 2700 gal
Squeezed perfs
Sd. fr. -72 Perfs
3000 gal.
IPF 120 BOPD
Compl. 11-16-49

Gas show -129
Water show -98
Shot w/150 qts. +144 to +134
IPF 1410 MCF gas/day
Compl. 12-24-46

IPF 626 BOPD.
Compl. 6-28-47

Gas show -197 to -185
Abroad +124 sct 30 min
80PH w/3500 MCF/day
Perf +96 to -3, Tst 12 BWPH Squeezed perf +67 to -36, test 13 BWPH, Sq'd perf
Perf +31 to +69
IPF 98.80 BPH w/3 hrs w/362 MCF/gas
Idney Compl. 10-19-47
DST 3-1294 - 1282 "
Pf - 1.79
1-50, Rec'd 1008 Bl
PD by GL, no oil,
Sqzd perf, Reperf +108 to +55 Tst +28 BWPH,
Sqzd perf, Reperf +124
G+ 117 Recomd IP 133
80 in 4 hrs. w/ 267 MCF
gas/day Compl 1-20-51
SIP 45-50 -1145 #
Pf - 9.36

Test +38 to +212, no oil, gas or water
Test -386 to +186
850 MCF gas/day
Test -386 to -159
810 MCF gas/day
IPF 11800 MCF gas per day,
Shut-in pressure 1100 psi
Compl 11-2-48
Test 12-29-48
Flowed 10 BOPD,
200 MCF gas.
Started Making oil
Sec. 10, T-16-S, R-31-E, Howard Co., Texas

Perf -46 to +24, Test 4 Bbls +38 Squeezed perf, Reperf +62 to -57 Test 13 BW in 45 hr Squeezed perf, Perf -20 to +32, Tst in 6 Bbls gas/perf Test 18 BWPH, sqzd perf Perf -108 to -102 & -98 to -93, Tst 75 w/1500 gal IPF 239 BO in 8 hr w/ 3130 MCF gas/day Compl 9-28-48

Gas show +36 to +46
Tst gas +33 to +84
Blewout at +16
Lost returns + 236
Squeezed perf +178 to +224 Gas show +217
no gas + 92, water returns + 132 Squeezed +125 to +63, Gas show +10 to gas +28, Tst show +3 Test below Shell wtr.
Perf -162 to
IPF 23187 MCF w/day
Compl. 12-
May 1952 w
1800 B w/ 2300 MCF/day

Perf +113 to +101
IPF 190 BO in 18 hr w/ 69 MCF gas.
Compl 2-2-48
-16-50 BHP 1172
PI - 6.46

Lost return +8 to +1
IPF 210 BOPD w/4000 MCF gas
Compl. 9-9-35
During April 48 well was plugged back to +101
Csg perf +116 to 104
IPF 29000 MCF gas/day

DST +92 to +282, Flow gas in 4 min, 138 MCF/day Rec'd 600 sul wtr
2nd shot +205, perf +195 to +187, +182 to +173, +169 to +163, very st. show gas after 1 hr w/ 1500 gal
PB to +201, Perf +293 to +207 To w/1850 gal. 668 MCF gas.
IP 1125 MCF gas/day
Shut-in press 750 psi
Compl 12-9-50
Cum 6-51 - 0170 BO, 360 MCF, 3140 GFG 3 E

DST -101 to -155, no oil, gas or wtr.
DST -61 to -176, Flow 800 BFPD, 29% H2SW, PB to -165
DST -123 to -165 Flow 20 BFPH, 24 % SH-W, PB to -155
DST -128 BOPD, 24 % BSW
Compl. 3-16-25
36, -100% wtr. prod - PB to 99
DST -90 to -99 Tst 65 BWPD.
8 to -79 Perf -116 to -71 Test 7 BWPH
1500 MCF gas/day PB to -92
Perf -139 to -9 test 4900 MCF gas in day, 7' oil, bleeded grad wtr
9 to -99 Perf -168 to -125 and -92 to -80, show small amt wtr.
8 to -99 Perf -123 to -149 small amt oil 36 at /Bbls + 184 to +176
Recmpl IP Flow by GL 11 BOPD
Compl -10-2-40

DST -61 to -81, 5500 MCF gas
DST #2 -81 to -91, 3500 MCF gas.
DST #3 -91 to -101, 3500 MCF gas
DST #4 -101 to -111, 5500 MCF gas.
IPF 38 BOPD, w/ 5500 MCF gas
Compl. 5-25-35.

DST -97 to -115, 250' sul wtr.
DST -115 to -165 Tst. nothing
DST -169 to -218, Flowed 30 BFPH
3% oil w/est 1000 MCF gas/day.
Cemented over from 182 to +121
IPF 100 BOD, 700 BWPD
Compl 7-15-36
Plugged & Abandoned 3-7-38

Perf & attempts, between +96 & TD, all tested salt water squeezed off.
Perf -121 to -112, +11 to +-16 to +105
IPF 212 BO in 9 hr w/ 85% MCF gas/day
Compl 9-22-47
3-24-48 BHP -182
PI -90.3
Gas show +37
Lost return +271

Perf 6 intervals, between +96 & TD, all tested salt water squeezed off.
Perf -121 to -112, +11 to +-16 to +105
IPF 212 BO in 9 hr w/ 85% MCF gas/day
Compl 9-22-47
3-24-48 BHP -182
PI -90.3
Gas show +37
Lost return +271

Perf
Perforations
Interval Sized All Oil
Squeezed
Sqzd
Perf & Sqzd
Perf & Sized
PBD
Dry Out Depth
Sul W
NS
LG
TP
Ow
Gw
92% Oil
96% Oil

HUMBLE
COOPER #1 S R COOPER #3
(3311)

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'
(3440)

REPUBLIC
DAVIS 2-B
(3392)

REPUBLIC
DAVIS 3-B
(3392)

CONTINENTAL
STEVENS 'A-34' #1
(3417)

GREENBRIER
STEVENS #1
(3429)

R. G. CLAY
ETZ #1
(3453)

R. G. CLAY
ETZ #2
(3437)

CONTINENTAL
LYNN A-28 #5
(3438)

TPC 80
STATE ACCT 101 #8A
(3429)

GULF
JANDA STATE E #2
(3449)

GULF
TEN CRUEL STATE
(3435)

SHELL
STATE A
(3446)

AMERADA
STATE JCT 2
(3468)

AMERADA
STATE JCT #1
(3469)

TPC
STATE A
(3

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

Top of Yates
Top of Seven Rivers
Perf
DST
TP
PBD
Perf
LC
Sult W
Dry
On
Off
NS
BO
PB into L-12
TD (1840)
TD (1521)
TD (1662)
TD (1733)
TD (1961)
TD -250
TD (2311)
TD (2741)
TD (2811)
TD (1440)
TD (1445)
TD (1650)
TD (1217)
TD (2661)
TD (2621)
TD (2541)
TD (1-132)
TD (330)

Gas show +449 to +458
DST #1 -138 to -162, 990 MCF/day
on oil
DST #2 -131 to -152, 200 MCF/day
10 BOPH
IPF 10 BOPH w/350 MCF gas per day
Compl 9-15-38
Shut-in 3-29-44, 1/4 BOPH w/1293
BWPD. PB to -110. Ceased 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 -94 & -53 to -126
to -184. Held full oil of water
PB to +120. Perf +130 to +110
Recompl 428 MCF gas/day
Compl 10-18-44
Dec '00 P&A'd. Orig. comp.
G. Shaw filed ref. Hurd's
117 sx 7,800 w/ Jarvis 3-07-2001

Gas show +428 to +438
Lost circ. zone -7
DST -96 to -121, 3220 MCF
gas/day
IPF 69.80PD w/1000 MCF gas
Compl. 8-17-38
Prod declined to 100% wtr.
PB into L-12
Below -125, no oil or gas
Plugged - Abandoned 10-26-44

Gas show +427 to +437
+387 to +377
IPF 88 BOPH w/ 2500 MCF gas
Compl. 11-26

Gas show +451 to +491
DST #1 -64 to -109 rec.
12,000 MCF gas/show
-127 to -174 to -193, 240'
dirty mud, oil show
IPF 100 BOPH w/1000 MCF
gas/day
Compl. 1-21-37
Prod. decl to 100% wtr.
PB -2, -24 -103 P&A -89 to 98
tested water w/show of oil
Perf. w/1 hole at -71-73-79
tested 10,000 MCF, 12 brg
of wtr. Perf. w/1 hole at -22,
-25, -34. PB to -61. Recompl.
2-7-41 for IP of 8000
MCF gas/day

Gas show +493
Blew out +955
Oil show +375
Gas show +292 to +282
+233
Oil & gas show +331 to +280.
Perf +185 to +155
IPF 10,000 MCF gas/day
Compl. 4-25-42

Lost circulation -138 to -142
Flowed 200 B oil w/e per hr on
2 hr test. Attempted to squeeze
with 150 sx cement. Plugged back
to -83. Perf. w/3 +335 to -56
IP 28,000 MCF gas thru 5/8 ck
Shut-in pr 1250
Compl. 1-23-91

Temp. @ 9,537 = 218 deg F
Tr w/1,642,500 MCF.
Sqz'd all perfs, south
reinforcement.
May '06, AFI found
w/o - sqz'd.
P&A'd @ 2080, 160
sx Class 'C' + 4% gel
Class 'C' + 2% CaCl2
P&A'd @ 1,660' - 60' plug
@ 1,410'.
P&A'd @ 300'.
Surf. csg. cut off 4' bgl.
Steve Jones - Field Supv.
IP 1,537 MCF/d w/ 32/64
choke
5-7-91 OPP 664 MCF, 5.5#
rock 3#

IPF 1224 BOPD
3/4" ck
Compl 4-28-49

IPF 1088 OPD, 3/4" ck
Compl. 5-30-49

Test -582 to -214
2180 MCF/day
IP 54,000 MCF/day
Rec open 7'
Compl 9-5-92
May '93 - Deepened to 3375'
w/ no GL 3374'.
TST 3034 - 3335' - 30 BO/257 a
694 MCF FTP 1400#
Prod - Flowing
Perfs 0300 'C' 3379 -
3/4 (2spf), 4a 1/2" liner
w/sqz'd 4% GOR 650. TP
50#
Compl - Sales:
Kelly Shaw 4a 3026' - final
IP 2,600 MCF SIP 890 24

DST +2606 to -147, 1 hr, rec 90'
gas cut mud, 180' sul. wtr. 68
MCF/day
DST, +956 to +29' open 1hr, gas 7
min. Rec 90' oil cut mud
DST -8 to -21' open 1 hr, gas in
8 min. Rec 60' of oil cut mud
+ 3ut water
DST -118 to -163', 1hr, rec'd 120'
gas cut mud. Perf. w/189 shots
-84 to -91, subsidiary
Plugged & Abandoned 8-4-50

50% Oil
50% Oil
Perf
PBD
On
BO
TP
BO-TP
75% Sul W
Dry
On
Off
PBD
TP

Gas show -1076 to -998 Gas show -279 to -275
-96 to -102 -216 to -201
Water level -263' +200 to +191
Water 5 bo -110 Blew out at -108'
Tr w/1000 gal Gas from -95 to -105
IPF 152.7 BW, gas IPF 640 BO + 11 BW
2" w/ 3162 MCF/day 5" ck w/15 MCF
Compl 12-4-37 Compl 10-11-37

7" w/ 500 gal
IPF 105 BOPD 309 BWPD
thru 24/64" ck GOR 943
Compl 3-30-93

T P C B-9
STATE A ACCT 1 '15
(3500)

CONTINENTAL
MEYER B-53 '1
(3472)

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 80
STATE A ACCT 2 '12 '11
(3627) (3617)

'5
(3610)

CITIES SERVICE
CLOSSEN A '4
(3607)

CITIES SERVICE
CLOSSEN A '2
(3581)

CITIES SERVICE
CLOSSEN A '1
(3600)

CITIES SER
CLOSSEN
(3617)

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

Top of Yates

Top of Seven Rivers

Perf.

PBD

Sqz'd

Sul W

94% Sul W

TP

T.D. (-306)

T.D. (-273)

T.D. (-277)

Gas 2961'-65
Perf. after shots 3325-84
Swbd 18 bw/hr/1"- no rec. squeezed off. Perf. 42 shots 3121-32, 20 shots 3175-90 - Frac/2000 gal - 40 m-d - 1.8T in 12 hr (80% n.r.) Squeezed off to PB 3300. Perf. w/4 shots 3288-91 w/4 jspf shots
IPF not Estd MCF in w/1000 gas
IPF 82.80 BOPD + 352 bw/hr - 24 hrs
GOR 9000. Compl. 11-1-96

1. DST -195 to -135, 45 min., Strd 1500 MCF in 6 min.
2. DST -155 to -110, 1 hr., Strd 60 bw/g ft 1 min.
3. DST -108 to -100, 45", Strd 2900 MCF, 2000 bw/hr
4. DST -100 to -75, 1 hr., Strd 58 MCF, 1600 bw/hr
5. DST -76 to -80, 1 hr., Strd 180 MCF, 10" gas on 1/4"
6. DST -150 to -125, 1 hr., Strd slight gas in 45", 1/4" in
7. DST -125 to -30, 1 hr., Strd 980 bw/hr - 30 min
Rec. 1,100' - 25° Perf. -125 to -120 w/1764 shots
Tested 400 MCF gas/24 hrs., no wtr. or oil
Sqd. stage w/185, Perf. -255' to -230' w/240 shots
IP 17000 MCF/day, no oil
1" w/c. Compl. 6-28-97
3-26-97 - Perf. -240 to -230 w/60 shots. Treat 3-9

DST -5 to +65', 1 hr., IC BOPH. Rec. 180' GCM
445 MCF/day
DST -95 to -32, 30 min., gas in 1 min., GTS in 18 min., flowed 278 BOPH, no water
IPF 182.80 w/bbl., 390 MCF, thru 3/4 w/c. GOR 4167.
Compl. 5-1-97

2310 MCF, no oil
DST +63 to +19, 15 hr.
1930 MCF + 110 salt water
DST -104 to -72, 1 hr. Rec.
3600 salt water, no oil or gas.
PB, to -5 set csg + perf
+ 58 to +137 = 124 shots
1/2 oil or wtr., slight show gas
Tr. of 1000 gal. Rec. 5610 MCF gas, no oil or wtr.
IP 13900 MCF/day thru
open csg.
Compl. 10-23-97.

Gas +28 to +25" Show oil
est 250 MCF - Test of 102
to -172 Rec. 2100' salt
gas
DST -172 to -187, 15 min
show of gas. PB, to -163
Perf. -152 to -167 + 90
shot. Hole full of water
Squeeze off perf. Perf
-154 to -149 w/ 35 shots.
To mf/1000 gal
IPF 40 BOPH + 1138 MCF
w/1439 MCF/day
Compl. 6-11-97

Gas +25 to +257' Show oil
est 250 MCF - Test of 102
to -172 Rec. 2100' salt
gas
DST -172 to -187, 15 min
show of gas. PB, to -163
Perf. -152 to -167 + 90
shot. Hole full of water
Squeeze off perf. Perf
-154 to -149 w/ 35 shots.
To mf/1000 gal
IPF 40 BOPH + 1138 MCF
w/1439 MCF/day
Compl. 6-11-97

Test returns +13
DST -135 to -165, muddy
gas
DST -176 to -195, 240 MCF
gas
IPF 168 BOPH + 80 BW
TD thru 30" in 1496
MCF gas
Compl. 9-2-96

Test returns +178 to -196, 45
Test -151 to -183 - 50,000 MCF/day
IPF 320 BOPH w/ 16,000 MCF gas
Perf. -151 to -186 - 6+6 + 6+6 = 24 shots
300 gal. -185 to -230, flowed
40 BO + 80 bw after 8 HRS, test
Tested csg. Held w/ 1500 psi - 0.K.
Still rec. of 105, Perf. -214 to -33
Tested 10 HRS/BW, no oil or gas
With rec. of 210' gcm + 22 bo in
sqz'd shots. Tested 2100 psi
- 0.K. open. Is tst. natural w/ 4 hrs
flowed 11,200 MCF and gas
and wtr. Shut in press. 894
Comp Compl 3-7-79

Uncovered T.D. (-300)
Pump 3-23-48 out of 70-2000'
Sqz. off w/100 sks Hal-344
Sqz'd 4 BO + 12 BBW in 90 Min.
Rec. 143 - 80 oil + 63 BW
Perfs -2600-08' - Small amt. gas & oil, diffc.
Nitro at -3250' - 100% - 3270'
-3260' - 110 to 100 MCF
Oil - 42 - 40 - 42 - 42 - 42
Balance
Perfs -2533' to -2474'
10 @ 600 MCF - 330# - 510
721 2 #
2 12-63 - 5,630 MCF - 510
642-3 #

Gas show +190 to +180
-155 to -175 20 min
300' oil
DST -155 to -175, 20 min
250 MCF, 720' oil
Gas show +167' to +28'
IPF 250 BOPH, 20% W
GOR 1800
Compl. 11-11-37

Gas show +150 to +140
-194 to -
DST -193 to -213
500 MCF gas, 60
IP - 224 flowed th
80 BOPH, gas 25
TD - IPF 1058 BO
GOR 1800
Compl. 10-11-37

Top of Yates

Top of Seven Rivers

Perf.

PBD

LC

LC Sqzd w/100 Sx

LC Sqzd w/75 Sx

LC Sqzd w/300 Sx

LC Sqzd w/147 Sx

80 Sqzd w/500 Sx
LC Sqzd w/400 Sx

Sqz'd off w/100 Sx

Tst Plkr Pt

TP

T.D. (-215)

T.D. (-243)

T.D. (-230)

T.D. (-226)

T.D. (-229)

T.D. (-225)

T.D. (-228)

T.D. (-211)

T.D. (-223)

T.D. (-235)

T.D. (-230)

T.D. (-228)

65% Q_n

22% Q_n

78% Q_n

50% Q_n

20% Q_n

63% Q_n

45% Q_n

NS 30% Q_n

Top of Queen

TEST NOT TO BE DEEPENED PBD
T.D. (-2 DEEPENED)

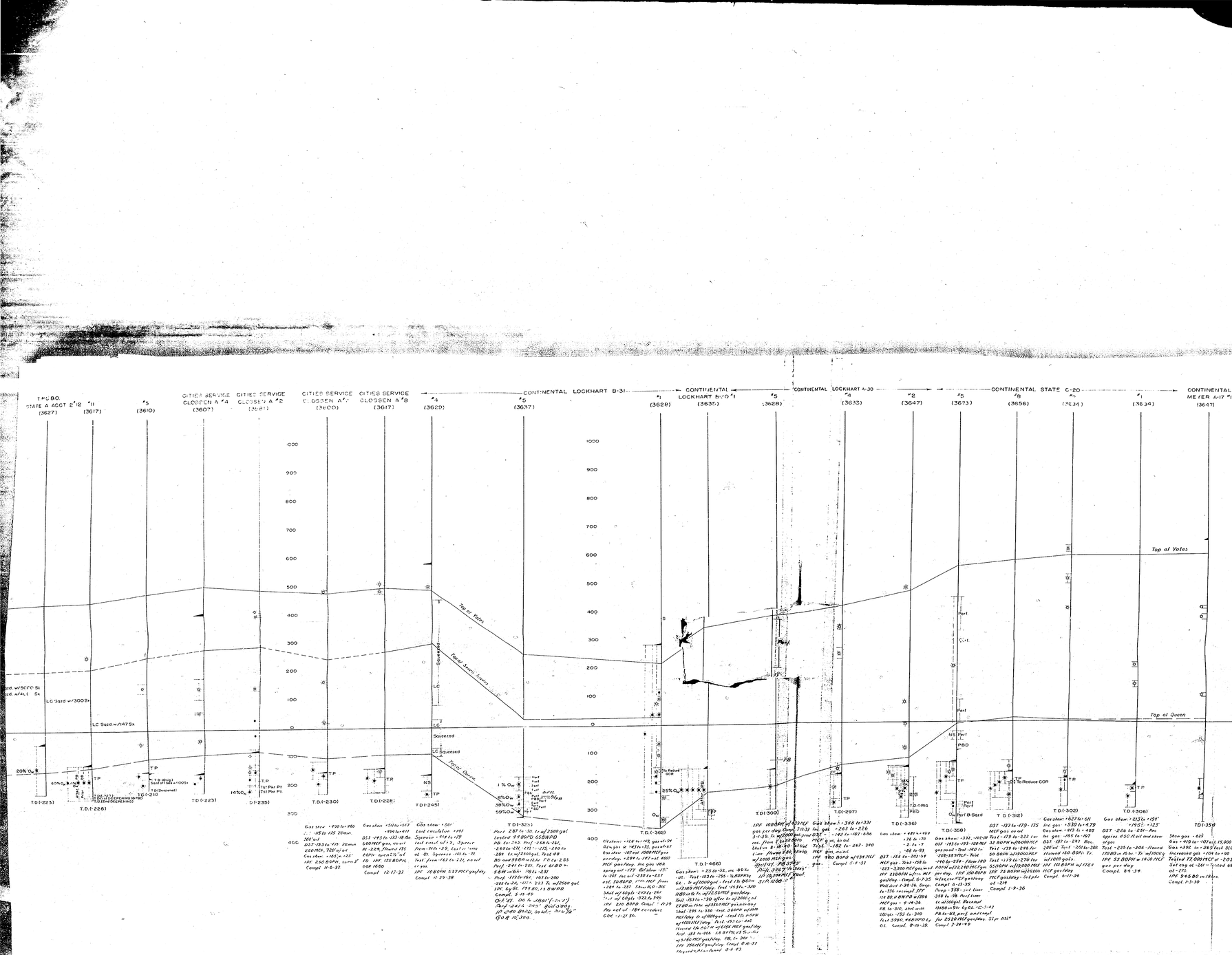
T.D. (-2 Desired)

T.D. (-2 Drld)
Sqzd off w/ 100 Sx

TEST NOT TO BE DEEPENED PBD
T.D. (-2 DEEPENED)

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	SW
Tubing Packer	SP
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

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

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
200
SL
-200
-400

Top of Yates

Top of Queen

Before acid swabbed
Treated w/1000 gals.
IPF 18 BO in 12½ hrs.
Comp. 3-10-36

① DST No. 1 -190 to-240
90 MCF gas
Before acid fled by BLM
Acidized w/1000 gals
IPF 15 BOPH
Est. 750 MCF gas.
Comp. 5-15-37

Shows of oil & gas with
Perf. +595 to +555
tested no gas or oil
Perf. +538 to + 625
tested no gas or oil
Perf. + 223 to + 190
IPF 7,500 MCF gas
Shut in perfs. 1860 psi
Comp 7-19-48

① DST No. 1 -191 to -261
300 bf, 450' mud in
15 min
Est. 1150 MCF gas.
Before acid Treated
3 BO by gas IVP.
Treated w/total of
8000 gals.
IPF 28 BOPH
500 MCF gas.
Comp 6-12-37
Reckmp as gas well
9-11-47
Perf. +176 to + 148
IPF 13,200 MCF gas.

Show of gas -804 to
-857
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. 12-9-36

Show of gas at +32 to +66
Test - -172 to -312.
Treated 5000 gals.
Fled 51 BF in 2 hrs.
67% BS &W
Deepened to -360.
Test -172 to -350
Fled. 93 BF in 11 hrs.
1060 MCF gas
Set plug -277
Treated w/total of 12,000
gals. below plug. Pulled
plug.
IPF 103 BF 80, 54 % BS&W
2000 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 1630
Comp. 8-21-37

Treated w/total of
6000 gals.
IPF 50 BO 15 hrs.,
GOR 1915
Comp. 4-20-40

Show of gas at -816
Show of oil & gas at
-270 to -315
Test -135 to -325
swbd 1 BOPH
Perf. formation
from -815 to -322
Acidized w/total
11,600 gals.
IPF 89 BOPD
GOR 1900
Comp. 8-26-39

Test from -144 to -330.
9 BO in 7 hrs
Treated w/total of 3000 gal
Fled. 60 BF 9 hrs.
Est. 3580 MCF gas
Deepened to -325
Treated w/1000 gals.
Perforated formation
-233 to -305.
Plug set at -209
Swbd. and Fled 21 BF
in 7 hrs.
Pulled plug. Treated w/3000 gals.
Fled. 17 BOPH
3000 MCF gas/day
IPF 260 BO 19 hrs w/GOR 1630
Comp. 6-8-39

Fled 12 BOPH
Acidized w/total of
3000 gals.
IPF 208 BO 6 hours
578 MCF gas/day
Comp. 7-25-39

Show of gas +638 to+696
Test - -236 to -312 after
w/3000 gals.
Fled. by heads 74 BOPD
Deepened to -382.
Treated w/6000 gals.
IPF 172 BO 3 hrs.
860 MCF gas/day
Comp. 10-25-36

Show of gas +8510
+618.
Test from -192 to
-325.
Fled 181 BOPH
Est 18,000 MCF gas/day
Set plug at -231
IPF 76 BOPH
5820 MCF gas/day
Comp. 6-20-37

Well S.I. 8-13-48 (30% water

Show of gas +858 to +915
Show of gas +538 to +532
Blew out at +520
Show of gas +477 to +473
Show of gas +345 to +305
Lost mud returns at +329
IPF 110 BO in 30 min.
5,000 MCF gas day
Comp. 1-31-37

Show of gas +1039 to +1019
+859 to +844 , +845 to
+804 , +733 to +698
+649 to +644 , +627 to +585
+336 to +307.
IPF 1252 BOPH thru CSG
200 BOPH thru 1" choke on
23 tbg
Comp. 3-17-37

Recompleted 7-10-49
Cemented liner at -320.
Perforated -236 to -246
After acid tested 151 BOPD
and 1.2 MMCF
Before were tested 54 BO,
4.05 MMCF

Show of gas +932 to +925
+633 to +630 , +616 to +610
+588 to -598
Lost Returns at -246
IPF 1296 BO in 13 hrs.
14,500 MCF gas/day
Comp. 12-27-36

Recompleted 5-2-50
Set liner at TD
Perf. -208 to -238.
Tested 13 BFPH, 85% w
Before work tested
900 BWPD, 10 BOPD

Show of gas +541 to+529
+506 to +501, at -821
Test from -821 to -829
Flowed 167 BOPH
Treated w/5000 gals.
IPF 507 BOPH
Comp. 2-13-36

Test -24
60 BOPH
1250 MCF
Comp. 8-

Well sho
making

NORTH-SOUTH SECTION M-1

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

NO.5

SUNRAY COOPER NO.6 ELEV. 3555

SUNRAY COOPER NO.7 ELEV. 3559

SUNRAY COOPER NO.2 ELEV. 3562

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 "9" 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

Top of Yates

Top of Queen

Show of gas +858 to +815, Show of gas +528 to +524, Blew out at +520. Show of gas +477 to +473, Show of gas +315 to +305 Lost mud returns at -275. IPF 110 BO in 30 min. 5,000 MCF gas/day Comp. 1-31-37

Show of gas +1039 to +1019; +859 to +854; ; +819 to +804; +733 to +718; +604 to +602; +307 to +299 -136 to -207. IPF 1016 BOPH thru csg 240 BOPH thru tubing on 24 hrs. Comp. 3-11-37

Recompleted 7-10-49 Cemented liner at -280 Perforated +226 to -246 After acid tested 151 BOPD and 17 BWPD Before work tested 56 BO, 2,150 BWPD

Show of gas +912 to +905; +836 to +674; +486 to +478; +188 to -192 Lost Returns at -244 IPF 1216 BO in 13 hrs. 14,300 MCF gas/day Comp. 12-27-36

Recompleted 5-6-50 Set liner at TD Perf. -208 to -238. Tested 13 BPH, 8% w Before work tested 900 BWPD, 10 BOPD

Show of gas +561 to +529; +506 to +501; at -223 Test from -221 to -329 Flowed 167 BOPH Treated w/5000 gals. IPF 507 BOPH Comp. 8-13-36

Test -40 to -282 64 BOPH 1250 MCF gas/day Comp. 1-27-36

Well shut in 8-11-50, make 100% water

Show of gas +1173 to +1161; +986 to +961 Lost returns at -189, Had 1200 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 67 BOPH, 1370 MCF gas/day Comp. 6-21-36

Recompleted 1-11-50 Set liner at TD Perf. -875 to -904 Pumped 106 BO and 60 BW in 7 hrs. Before work 100% water

Show of gas +1054 to +1049; +971 to +866 Lost returns at -229, Tested -238 to -317 Flowed 30 BOPH Plkr. set at -245 Acidized total of 6000 gals. IPF 113 BFPD, 3% water Comp. 10-5-36

Show of gas +738; +266 to +261; -235; +245 Show of oil and gas -245 to -315 Set pkr. at -254 Test Flowed 260 BO in 1 hr. 40 min. 16,000 MCF gas/day Comp. 5-13-36

IPF 1020 BO in 11 hrs Est. 1,500 MCF gas/day Comp. 5-14-36

Show of gas +253 to +233 Test -322 to -397 Swbd & Flwd 138 BOPD Treat 3000 gals TIPF 576 BO in 12 hrs Comp. 8-11-36

Test -324 to -343 After 2000 gals. acid swbd 2 BOPH Deepened to -348 Total total of 6000 gals. IPF 288 BOPD Comp. 7-21-36

Show of gas -321; -391; -197 to -251; -233 to -242. Test -225 to -317 Flwd 170 BOPD Est. 1000 MCF gas Treat w/3000 gals. IPF 580 BO in 5hrs Comp. 6-6-36

DST No.1 -161 to -222 800' fluid in 15 min. show of oil 90 MCF gas/day Test -161 to -320 Flwd 20 BOPH Treat total 3000 gals. IPF 33 BOPH 1500 MCF gas/day Comp. 6-6-36

Show of gas -198 to -206 DST No.1 -161 to -215 Show of gas, 95" mud Test -198 to -325 Fluid 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 +322 Incl. gas +510 to +508 Incl. gas +383 to +371 Incl. gas -158 to -168 DST No.1 -208 to -230 rec. 7% plc. mud and oil IPF 60 BOPD 108 MCFGPD Comp. 5-25-36

Show gas +376 to +365; +162 to +153; +5 DST No.1 -155 to -209 SI show of oil 1860 MCFGPD DST No.2 -229 to -234 small show of gas, no oil; IPF 78 BOPH 1040 MCFGPD Comp. 5-13-36 Remedial 10-2-40, swf plkr. -264 Reduced GOR from 19,300 to 500

Show gas +1241 to +1221 IPF 340 BOPH GOR 1,000 Comp. 3-24-36

Show gas +993 to +953; +928 to +918 DST No.1 -126 to -162 small show of gas, no oil Test -157 to -198 showed 930 MCFGPD Test -151 to -233 10,800 MCFGPD no oil Test -181 to -278, 20,500 MCFGPD, 8090 MCFGPD, flat plkr. at -247 IPF 50 BOPH 1,000 MCFGPD Comp. 11-4-36 Now Comp. 7-20-54 Plkr. set at -271 GOR reduced from 9,900 to 507

Show gas +965 to +767 Incl. gas +265 +242 to +238 Treated w/4000 gals. IPF 1,451 BOPD 200 MCFGPD Comp. 11-20-36

Show gas +326; +303 to +275 Est. 1500 MCF Pkr. at -192 IPF 967 BO+9 hrs. 1500 MCFGPD Comp. 9-25-36

Show gas +220 to +190 IPF 151 BOPH GOR 871 Comp. 6-29-36

Test -169 to -304 Flwd 51 BOPH w/4000 GOR Pkr. Setting unknown IPF 822 BO/6 hrs. 1370 MCFGPD

Treated w/total of 18000 gals. Shot No.1 w/250 qts. from -232 to 332 IPF 118 BF/21 hrs. 15% BS&W 750 MCFGPD Comp. 10-24-36

IPF 60 BOPH 2000 MCFGPD Comp. 7-20-37

Test -141 to -328 Flwd 68 BO in 16½ hrs Treat w/800 gals. IPF 221 BO in 6 hrs. 1573 MCFGPD Comp. 9-24-37

Test -123 to -312 no oil, gas or water Test -127 to -330 no oil, gas or water Shot No.1 w/180 qts. -236 to -330 Treated w/3000 gals. -184 to -330 Shut No.2 w/350 qts. -184 to -330 IPF by G.L. GC 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. 3339

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
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 Yates

Top of Yates

Top of Queen

TP

① Shot No.1 w/120 qts. -152 to -162
② Shot No.2 w/200 qts -112 to -212
IPF 404 BOPD
G/O 1154
Comp. 8-9-49

IPF 274 BOP
G/O 705
Comp. 5-26-9

IPF 123 BOPD
G/O 827
Comp. 1-27-49

① Shot No.1 -187 to 252 w/166 qts.
IPF 56.80 in 9 hrs.
G/O 909
Comp. 7-19-49

Show 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. 1-3-49
4-04-53: OFP: 1080 MCF SIP: 1020 # P

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. 6-3-49
4-04-53: OFP: 880 MCF SIP: 970.3 #

PB No 1 was performed to shut off water. Well shut-in after PB:
In 1931 tested 60,000 MCF PD
On 6-7-38 well was plugged back to 2,000' to attempt shut off sour gas, section and produce upper sweet gas.
Test after PB-2 22 MMCFD. w/sulphur content 40 grns. per 100
Show gas +570 to +340
Small show oil +535 to + 280
Show oil + 224 to +182
Show oil +177 to +171
Show gas +171 to +156
Show oil +138 to +135
Comp. 6-13-38
4-04-53: OFP: 2,800 MCF SIP: 1020 # P

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. 9-28-61
4-17-53: OFP: 5,000 MCF SIP: 1070.3 #

① DST No.1 -47 to -162
Recovered 480' of gas out mud
② DST No. 2 -167 to -306
Recovered 90' 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 -466
Recovered 90' of mud and 3300 bleck .05 sulphur water
IP gauged 10,900 MCF gas
Comp. 10-17-49

① DST No.1 +180 to -75
Tested 814,000 CFPD
Rec. 210' oil - SIP 1025
IPF 2,900 MCF gas
Comp. 11-9-49

IP Tested 4,186 MCF gas
Comp. 9-4-46

① DST No. 1 +545 to -57
no recovery
gas volume 21,800,000 CFPD
IP gauged 21,800,000 CFPD
Comp. 9-22-50

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

T. P. C. & O.
STATE "A" ACC'T 2, NO. 15A
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

Top of Yates

Top of Queen

IPF 5000 MCFGPD
Comp. 12-9-49

Show gas +239 to +256
Increase in gas +253 to +259
Increase in gas +282 to +289
Top of gas +279
Main gas +282 to +289
IP 16,000 MCF gas
Comp. 5-13-36

Top gas pay +318
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 -350
tested 700' of mud w/trace of oil and gas
Set packer and swabbed interval from -300 to -483
swabbed dry
IP gauged 27,450,000 CF gas
Comp. 3-19-36

IPF Natural 8,652 MCF gas per day
Comp. 4-9-49

IP 11,000 MCF sweet gas per day
SIP 1176 psi
Comp. 4-25-49
6-23-52: OPD. 7,000 MCF
G/O. 391.3 #

IP Flwd natural 3060 MCF gas per day
Comp. 8-23-48

Show gas +348
Show gas +332 to +317
Show gas +83 to +84
Well blew out +92 to +88
est. 50 MMCF
① DST No. 1 -116 to -76 for 6,000 MCF
Test +77 to -293, small amount of gas, no oil
Test +248 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' Flwt. 10% oil.
④ DST No. 4 -668 to -734 show of oil and gas.
⑤ DST No. 5 -734 to -818 No Show, Poor Rec
IP 27,000 MCF/day
Comp. 10-25-36

① DST No. 1 -186 to -351 rec. 180' drlg. mud. PB to +59
IP test 1000 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 -518.
Well not shot or acidized
Comp. 4-23-39
To shut off water whipstock set at +185 and well deepened to -342
Liner was 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. with MCF of sour gas and +40
Comp. 2-10-48

IP 120 BOPH w/1,100 MCF gas
Comp. 5-24-40
To shut off water well deepened to -274
set liner to total depth
Perforated liner -227 to -281 and -288 to -294
Set packer at -263 and acidized perf.
w/500 gallons
Before 82 BO, 35G BW
After 211 BO, 0 BW

Slight show of gas at +319
At -250 well flwd 120 BOPH naturally w/1000 MCF
IP 71 BOPH w/120 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
Re-Perforated -276 to -282 and -290 to -311
Set packer at -257 and acidized with 500 gals.
Before 59.6 BO, 95 BW
After 372 BO, 0 BW

① DST No.1 +67 to -23 showed 500 MCF/gas, no oil, 225' of drilling mud
Test 32 BOPH w/8750 MCF gas w/no packer
Test 16 BOPH w/3410 MCF w/packer set at -209
Comp. 5-24-38
To increase production and liner ratio, well was deepened to -280 and set packer at -196
Before 38 BO, 0 W, GOR 3760
After 57 BO, 0 W, GOR 1968

IPF 62.3 BOPH w/850 MCF
Comp. 9-29-40

E

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
METER B-17
NO. 2
ELEV. 3646

CONOCO
METER B-17
NO. 1
ELEV. 3639

TIDEWATER
COLEMAN NO. 1
ELEV. 3632

TIDEWATER
COLEMAN NO2
ELEV. 3624

GULF
BELL STATE
NO. 2
ELEV. 3606

GULF
RAMSEY NO. 1
ELEV. 3596

CONOCO
METER B-9
NO. 2
ELEV. 3558

CONOCO
METER B-9
NO. 4
ELEV. 3580

CONOCO
METER B-4 NO. 1
ELEV. 3592

CONOCO
METER B-4 NO. 4
ELEV. 3595

CONOCO
METER B-4 NO. 6
ELEV. 3577

CONOCO
METER B-4 NO. 9
ELEV. 3567

CONOCO
METER B-4 NO. 12
ELEV. 3553

CONOCO
METER 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

ATLANT
STATE
ELEV. 35

Top of Queen

Top of Yates

Top of Queen

Top of Yates

Top of Queen

Top of Yates

NORTH - SOUTH SECTION M-2

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

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
Show gas +228 to +306 Show gas +206 to +345 ① DST No. 1 trace gas, no oil -131 to -181 Tested at -211, no oil or gas Tested at -281 for 8½ BOPH by GL Treated w/3000 gals. then test +5 BO in 6½ hrs. Dy 34 Retreated well w/in 1,000 gals. IPF 40 BOPH w/417,000 CFPD Comp 9-18-36	Small show gas +62 Show gas +577 to +535 Test +287 to +443 estimated 10000 MCF Before shot Flowed 375 BOPD ② Shot No 1 w/75 qts. -258 to -336 ③ Shot No 2 w/175 qts -268 to -336 Sulphur water -398 to -400 and -513 to -525 IP 1215 BOPD Comp 10-1-36	Show gas +304 to +414 Show gas +534 to 1528 Show oil and gas +528 to +543 Show gas +474 to +674 Acidized w/1000 gals IP 790 BOPD Comp 6-11-36	Tested -142 to -302; 690 BOPD w/ 350 MCF	Show oil +91 IP 1188 BOPD w/2,190 MCF gas Comp 9-18-36	Increase in gas -82 to -43 ① DST No. 1 -117 to -167 Showed 600,000 CFG Tested 255 BOPH and 8½ MCF at -199 Tested 50 BOPH and 3½ MCF at -117 No increase in oil from -213 to -267 Comp. 1-6-36 Packer set at -205 on 8-1-36 to eliminate high ratio tempering successful Deepened Tested and acidized -301 to -307 No oil, gas or water. Tested and acidized -345 to -245, -287 to -295, -177 to -283, -255 to -231 No oil, gas or water Tested and acidized -245 to -250, No oil, gas or water Tested and acidized -161 to -186 for 181 BO and no water in 13 hrs IPF 150 BO and no water w/150# sand Comp 11-4-48 Before 78 BO, no water, GOR 1,150 After 95 BO, no water GOR ?	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 -167 Tested 6 BOPH and 10 MMCF at -200, gas coming from -176 to -188. No increase in oil or gas to -304 IPF 144 BO w/10000 MCF gas Comp. 7-8-36 On 10-14-36 packer was set at -172 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 -188 to -218 Tested no oil or gas -218 to -264 IP 384 BOPD and 8,304,000 CFG Comp. 2-28-36	Show gas +595 Show gas +542 Show gas +45 ① DST No. 1 +155 to -205, small show gas. Tested at 34½ BOPH and 400 MCF by gas lift at -265 Tested at 38 BOPH and 400 MCF at -295. IP 328 BOPH and 768 MCF natural Comp. 2-19-36	Increase in gas +516 ① DST No. 1 +113 to -208, +155 MCF gas. Tested 30 BOPH at -265. IP 66 BOPH and 915 MCF gas Comp. 4-13-36	Show gas +625 Show gas +392 to +362 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. 6-6-36	Show gas +536 Increase in gas +178 ① DST No. 1 74,000 CFG and 200'of oil in 20 min. -114 to -222 Test 12½ BO in 1 hr. by gas lift at -296 Tested 123 BOPH +65 MCF gas by gas lift at -301 IP 81 BOPH 20 hrs and 100 MCF gas natural Comp. 6-27-36 Acidized well below formation packer at -148 w/100 gals. on 1-12-47 Before GL 1180, 18M, 17,149 GOR After GL 458 BO, 7.18M 1620 GOR	Show gas +660 Increase in gas +630 Increase in gas +481 ① DST No. 1 showed 235 MCF gas w/slight show of oil from -139 to -198 [1] Wireline set No. 1 w/195 qts. -213 to -312. IP 144 BOPD and 146 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 4000 gals) Flwd. 32 BO in 7 hrs 8000 MCF gas. from -191 to -301 Swb'd per. at -221 Treated w/5000 gals in 2 treatments IPF 58 BOPD, 37% BS & W. 200 MCF gas. Comp. 6-27-36	Before acid swbd. dry Treated w/4000 gals. IPF 78 BO in 12 hrs 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. + 595 to + 555 Tested no oil or gas Perf. + 550 to +525 Tested no oil or gas Perf. + 525 to +190 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 - 194 to -149 IPF 13,200 MCF gas. Comp. 3-11-49	Show gas -204 to -217 Before acid flwd. 5 BOPH Treated w/8000 gals. IPF 40 BOPH Est. 500 MCF gas/day Comp. 1-13-37

Top of Yates

Top of Queen

EXH. NO. 16

Ohio Oil Co
Wills 1-B
Elev 2984'

Ohio Oil Co
Wills 3-B
Elev 2989'

Texas Co
Rhodes 3-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
1 State
Elev 2985'

Texas Co.
State 1-A
Elev 2994'

Texas Co.
Cagle 2-A
Elev 2985'

Tr-St Co
Shepherd 4-B
Elev 2995'

Texas Co
Shepherd 3-B
Elev 2990'

Top of Yates

T.D. 2334
Shot from 3325-3374
IPF 41 BO w/2 MW 18hr
Compl 5-9-45

T.D. 3133'
Shot w/1000 qts
IPF 1000 BOPD
Comp 7-26-45

T.D. 3332'
Shot w/1000 qts from 3287'-3321'
IPF 450 BOPD w/ 100 MW
Date 3-23-45

T.D. 3315'
Shot w/1600 qts 139 MCF
IPF 930 BOPD w/ 100 MW
Date 3-23-45

T.D. 3282'
Shot 1800 qts 3232-3274'
IPF 1313 BOPD
Date 4-3-45

T.D. 3265'
Shot 1800 qts 3232-3274'
IPF 733 BOPD
Date 4-13-45

T.D. 3150
Shot 1800 qts 3232-3274'
IPF 1100 BOPD
Date 3-24-45

T.D. 3187'
Shot w/1000 qts 3130-3187'
IPF 1100 BOPD
Date 3-23-45

T.D. 3166'
Gas show -3216-
Oil show -3165-3159
Gas show -1165-
Est 10 MMCFGPD from 3116-1155
Slight show oil -1155
IPF 350 BOPD/MCFGPD from 3116-1155
IPF 350 BOPD/MCFGPD + 280 per day
Comp 11-22-45

T.D. 3140'
IPF 12,960 w/ 170
51 w/o pump 850 w/o
Date 3-2-45

T.D. 3040'
IPF 833 w/32 hr 125 100% water
IPF 80,000 cu/ft
Date 7-16-45

T.D. 3190'

T.D. 3210'

R Olsen
Gregory 4
Elev. 3006'

Stanolind
Gregory 1
Elev. 3016'

Republic
Crosby 3
Elev. 3015'

Republic
Crosby 2
Elev. 3024'

Repetto
Lanehart 1
Elev. 3028'

Ruanon
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'

Anderson-Prichard
Stewart 3
Elev. 3197'

Anderson-Prichard
Wills 7
Elev. 3236'

Westates
Wills D-6 No. 2
Elev. 3218'

Westates
Wills D-4 No. 1
Elev. 3243'

Forchell
H.M. Woolworth 2
Elev. 3252'

J. E Simon
Woolworth 2
Elev. 3274'

Forchell
Woolworth 3
Elev. 3273'

Top of Yates

ROOMAN
Humble State B-L
Elev. 3277'

Conoco
Jack B-9
Elev. 3280'

Conoco
Jack B-9-2
Elev. 3274'

Conoco
Jack B-9-3
Elev. 3270'

Conoco
Jack B-9-4
Elev. 3263'

Conoco
Jack B-9-5
Elev. 3269'

Conoco
Jack B-9-6
Elev. 3260'

Carl P. King
Halverson 2
Elev. 3292'

ConOcu
Jack B-17 1
Elev. 3286'

Conoco
Jack B-17 2
Elev. 3294'

Skelly
Liberty Royalties 2
Elev. 3303'

Skelly
Liberty Royalties 5
Elev. 3304'

Skelly
Liberty Royalties 4
Elev. 331[illegible]

Stanolind
C Meyer 9-B
Elev. 3326

Stanolind
C Meyer 1-B
Elev. 3336'

Western Gas
Cerro 1
Elev. 3346'

Conoco
Vaughan B-1
Elev. 3315'

Conoco
Vaughan B-1 3
Elev. 3327'

Gulf
Holt 2-B
Elev. 31[illegible]

Gulf
Holt 1-B
Elev. 3309'

Amerada
State LM-2
Elev. 333[illegible]

Top of Yates

Top of Queen

Top of Queen

E

NORTH-SOUTH SECTION M-3
Scale: Vertical- 1" = 100'
Horizontal- 1" = 600'

Conoco
Jack A-2 2
Elev. 3264'

Conoco
Jack A-GC 1
Elev. 3261'

Conoco
Jack A-20 4
Elev. 3261'

Conoco
Harrison
Elev. 3291'

Conoco
Jack B-17 1
Elev. 3286'

Conoco
Jack B-17 2
Elev. 3294'

Skelly
Liberty Royalties C
Elev. 3303'

Skelly
Liberty Royalties 5
Elev. 3304'

Skelly
Liberty Royalties 4
Elev. 3311'

Stanolind
G. Meyer 9-B
Elev. 3326

Stanolind
G. Meyer 1-B
Elev. 3336'

Western Gas
Currie 1
Elev. 3344

Conoco
Vaughan B-1 1
Elev. 3335'

Conoco
Vaughan B-1 3
Elev. 3329'

Gulf
Holt 2-B
Elev. 3328'

Gulf
Holt 1-B
Elev. 3329'

Amerada
State L.M.T. 3
Elev. 3331'

Amerada
State L.M.T. 2-A
Elev. 3328'

2500

3000

Top of Yates

Top of Queen

T.D. 3588'
Elev. 3264'
Sand @ 3210-3220
Lime @ 3220-3240
Sand @ 3240-3260
Lime @ 3260-3280
Sand @ 3280-3300
Lime @ 3300-3320
Sand @ 3320-3340
Lime @ 3340-3360
Sand @ 3360-3380
Lime @ 3380-3400
Sand @ 3400-3420
Lime @ 3420-3440
Sand @ 3440-3460
Lime @ 3460-3480
Sand @ 3480-3500
Lime @ 3500-3520
Sand @ 3520-3540
Lime @ 3540-3560
Sand @ 3560-3580
Lime @ 3580-3588
Oil Bottom - 16 BOPH
Date - 1-12-38

T.D. 3585'
Elev. 3261'
Sand @ 3210-3220
Lime @ 3220-3240
Sand @ 3240-3260
Lime @ 3260-3280
Sand @ 3280-3300
Lime @ 3300-3320
Sand @ 3320-3340
Lime @ 3340-3360
Sand @ 3360-3380
Lime @ 3380-3400
Sand @ 3400-3420
Lime @ 3420-3440
Sand @ 3440-3460
Lime @ 3460-3480
Sand @ 3480-3500
Lime @ 3500-3520
Sand @ 3520-3540
Lime @ 3540-3560
Sand @ 3560-3580
Lime @ 3580-3585
Oil Bottom - 16 BOPH
Date - 1-12-38

T.D. 3540'
Elev. 3261'
Sand @ 3210-3220
Lime @ 3220-3240
Sand @ 3240-3260
Lime @ 3260-3280
Sand @ 3280-3300
Lime @ 3300-3320
Sand @ 3320-3340
Lime @ 3340-3360
Sand @ 3360-3380
Lime @ 3380-3400
Sand @ 3400-3420
Lime @ 3420-3440
Sand @ 3440-3460
Lime @ 3460-3480
Sand @ 3480-3500
Lime @ 3500-3520
Sand @ 3520-3540
Oil Bottom @ 3540'
Date - 1-13-38

T.D. 3291'
IPF 40 BO + 2 BW
Date - 1-13-38

T.D. 3306'
IPF natural 97 BOPH
+ 140 MCFPD, Gauged
2/3 thru 2" ck.
Date - 2-4-38

T.D. 3655'
Sh. - lime @ 3375 w/Slight
IPF 60 BOPH + 900 MCFPD
Date - 6-15-38

T.D. 3570'
Shale + lime @ 3552 with oil
IPF 15 BOPH
Date - 2-14-38

T.D. 3598'
IPF 20,000 MCFPD
Date - 1-4-38

T.D. 3598'
IPF - 2248 MCF gas/day
Comp. -

T.D. 3405'
#1 @ 3327 to + 401' FP
#2 @ 3327 to + 401' FP
#3 @ 3327 to + 401' FP
IPF 5 hrs thru 2" ck 1,000
IPF final 48 hr. Date
6-15-38

T.D. 3655'
Show oil at + 206
#1 Pkr. + 75' to + 32 BOPH
#2 Pkr. + 75' to + 36 Hr.
Gas to surface in 10 MINS
IS 800 MCF with 12 BOPH
with some trace Sand Pressure
#3 Pkr. + 75' to + 32 BOPH
IP 1,227 Flowed 2 hrs.
with + 1,900 MCFPD thru
IPF 4,000 MCFPD thru
FSIP 1284 lb pressure at 48
Date - 6-15-38

T.D. 3495'
IPF 22,000 MCFPD
SIP 1780 lbs. Date 10-8-
IPF final 48 hr.
6-17-38, June 24, 1938
open Flow, Back press
Rest 10,800 MCFPD

T.D. 3605'
#1 Pkr. natural + 107 to
+ 249' 1 hr. 1,800 M
2 hr. 2,800 M
3 hr. 3,200 M
4 hr. 3,400 M
5 hr. 3,600 MCFPD
Gas to surface in 2 hrs
Water 1,750 Stand. per
IPF incl. #1-#3 Bottoms
Grav. Cond. 50.6° API

T.D. 3608'
Shut in pkr. + 125' to
+ 142' 1 hr. 1,700 M
2 hr.
IPF 4,040 MCFPD
Gas Cond. 51.1° API

T.D. 3610'
IPF 2,764,000 CFD
SIP. Date 9-26-38

T.D. 3600'
IPF 1.2 MMCFPD
SIP. Date 11-24-38

T.D. 3620'
Shut in pkr. + 125' to
+ 142' 1 hr. 1,700 M
2 hr.
IPF 4,040 MCFPD
Gas Cond. 51.1° API

EXH. NO. 7

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'

800
600
400
200
S.L.
-200
-400
-600

Top of Yates

Top of Queen

Slight Oil, Salt Wtr, Gas

5% BSW

15 BOPD

Silt, show gas +431
Silt, show gas +333 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/3hrs. w/823 MCFGPD
Comp. 9-3-38

Shot w/150 qts. from -210 to -280
Recomp. 4-18-40 for IPF 72 BOPD, 280 MCFGPD. Prod. haters. work 30 BOPD

Show gas +541
Inc. gas -59 to -79
DST #1: -59 to -121; no oil gas or wtr.
DST #2: -39 to -182; very 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/15 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 -380 no oil gas or wtr.
Shot w/300 qts. from -243 to -363
IPF 30 BO/15 hrs. 92 MCFGPD
Comp. 6-4-50

DST #1: +49 to +9; 98 MCFGPD no oil.
DST #2: -30 to -101; 43 MCFGPD no oil.
DST #3: -30 to -102; 43 MCFGPD no oil.
DST #4: -98 to -148; 60 MCFGPD no oil.
DST #5: -165 to -193; no oil or gas
DST #6: -193 to -246; no oil or gas
DST #7: -243 to -296; 150 ft. drlg. fluid & show oil.
Test #8: -241 to -323; no oil, gas or wtr.
Test #2: -24 to -243; 4% BOPH by gt.
Acidized w/5400 gals.
IPF 21 BOPH w/400 MCFGPD
Comp. 5-26-37

Oil show -418
Gas show -720
Oil + Gas show -112 to -101
Test -104 to -322, 600 MCF/gas
Slt show of oil + water
T-w/2000 gal - tested 10 BOPD 1200 MCF gas, show of water at -336
Test -394 to -418, 15 BOPD
T-w/2000 gal - Test 3,500 MCF gas
Test -104 to -511 after -2000 gal
Salt 540 ft in 12 hr 5% BSW
418 to -500, sand 10 BO in 10 hr 40% BS+W - Deep. to -646, no shows. Plugged 7-14-37

NORTH-SOUTH SECTION E-1

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

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

Top of Yates

Top of Queen

800
600
400
200
S.L.
-200
-400
-600

Show gas -147
Show gas 1165
Show gas -37 to -42
Show gas -72
Show gas -127
Show gas -137
Show oil -337
Test #1: -62 to -337; 7000 MCFGPD
Test #2: -62 to -432 sub wtr. Slt. show oil & gas
P.B. to -395
Test #3: -62 to -395 sub. 100% salter 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 -349
Test #1: 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 -83
DST #1: -163 to -213 no oil or gas
Show oil -273 to -278
Show oil -329
Show water -351; two bottles/sh.
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

IPF 5690 MCFGPD
Comp. 10-5-50

Small show gas -131
Test -245 to -328 sub dry
Water at -383
Plugged & Abandoned 6-22-

Blew out -55 est 39000 MCFGPD
Treated w/2000 gals
IPF 4158 MCFGPD
Comp. 7-15-37

EXH. NO. 18

Amon G. Carter
Blinebry "2"
Elev. 3252'

Top of Yates

2500

3000

Top of Queen

GR
3500

TP

3500

TD 3536'
Shot w/500 gl. from 118
to 1436
IPF 184 BOPD
2-18-50

Gulf
La Munion"1
Elev. 3333'

GR
3500

TP

T.D. 3666'

"B" 2 1/2" to 98' w/ 100 sx. (3 sets)
2 1/2" to 1436' w/ 1000 sx. (2 sets)
4 1/2" - 200' to 3666' w/ 150 sx. (2 sets)
Perf. 4 JSPF, 3521-3541
Acidized w/ 1000 gal. Reg. Treated
w/ 20,000 gal. Gel. Frac. Treated
w/ 20,000 gal. Gel. 20-40 sd. & 20,000
gal. Gel. Spearhead w/ 1/2 lb
20-40 sd. in 1st 250 gal. Flushed w/
1440 gal. Pumped 8 BO in 12 hrs.
Plugged & abandoned 3-27-38

Gulf
W.H. Elson"1
Elev. 3308'

2500

3000

GR
3500

FB
TP

T.D.4377'
P.B. 3400'

IPF 686 BO, 1%FW
Comp. 11-6-48

Gulf
La Munion"5
Elev. 3325'

Top of Yates

Top of Queen

GR
3500

TP

TD 3399'
"L" DST - 1825 for 75'
Gas in 5 min. - Open 20
min. - 1/2" stream of sand
water - 1787' gas level
IPF 11 BO, 1 BWPD
Comp. 10-27-48

Skelly
Steeler"1
Elev. 3333'

2500

3000

GR
3500

TP

FB
Ref. Pt.

T.D. 3810'
P.B. 3768'

"Plat" - 207' to 400' (Yates)
Recovered 400' of fluid consisting of
500' of oil cut mud w/ a trace
FP's 74-142 & 1 shut-in 1126 in 45"
Flow material TTS 3680'FD

Olsen
Cliff"2
Elev. 3323'

2500

3000

TP

3500

T.D. 3689'
IPF 12 BOPD ALA. 9%
w/o. Treated w/ 7500 gals.
Comp. 2-7-49

Skelly
Harrison"A"-8
Elev. 3321'

2500

3000

TP

3500

T.D. 3682'
Treated w/ 10,000 gals. for inc.
to 4451' Shot w/ 80 QTS. 4369
to 4451 (Grayburg) 11-1-51.
IP 14,000 BOPD
Comp. 8-31-51

Skelly
A.L. King"1
Elev. 3331'

2500

3000

GR
3500

TP

T.D. 3685'
Shot w/ 270 qts. in 4917-
4977 (Grayburg) 1-11-54
IPF 142 BOPD
Comp. 2-16-54

Skelly
Harrison "2-B
Elev. 3521'
Skelly
A L King "1
Elev. 3531'
Skelly
B L King "5-A
Elev. 3548'
Skelly
B L King "7-B
Elev. 3550'
Dorchade & Glover
Glover "1-B
Elev. 3546'
Regello
Christmon "1
Elev. 3544
Conoco
Elliott "1
Elev. 3548
Magnolia
Gary "1
Elev. 3561
Tidewater
Walden "1
Elev. 3552'
Forrest
Waldorff C
Elev. 3585'
Top of Yates
Top of Queen
2500
3000
3500
TP
T.D. 3685'
T.D. 3683'
T.D. 3700
T.D. 3710'
T.D. 3691'
T.D. 3574'
T.D. 3559'
T.D. 3550'
DEEPENED 3885'
T.D. 3620'
T.D. 3685'

Humble
Greenwood"J"
Elev 3427'

T.D. 3767'

Shut in 2/68 #/sq in - 1240 no MV
Flow 57 BO/hr & Trace of water/gal
1/68 - IPF 242 BOPD + 1158 MCFD
Comp 9-26-51

Magnolia
Brunson"B"
Elev 3432

T.D. 3740'

Shut in 2/68 #/sq in - 1228
no MV - IPF 76 BO/hr no
no gas est. Comp 7-18-40

Magnolia
Brunson"J"
Elev 3438'

T.D. 3738'

IPF 182 BO no MV
Comp. 2-20-38

Cities Service
Graham #1
Elev. 3446'

T.D. 3750'

Shut in 2/68 #/sq in - 1240 MCFD
1/4 hr Flow 1/2 in ck 1/2 hr
6 BOPH & Trace gal. 1PF
Comp. 8-19-51

Magnolia
Carson"2
Elev 3471'

T.D. 3775'

Before Shut in 1/68 BOPD
Shut in 1/68 #/sq in - 1240 no MV
After 2 BO/hr Flow est. 60 BOPD
Comp. 7-21-48

Magnolia
Carson"3
Elev 3461'

T.D. 3735

Shut in 1/68 #/sq in - 1240
Flowed 1/68 - 1/2 hr
thru 1/2 in ck 1/2 hr
IPF 60 BOPD
Comp. 7-27-37

Magnolia
Carson"1
Elev 3465'

T.D. 3775'

Swbd 16 BO/hr before shut
in 1/68 #/sq in - 1228 no MV
after 1 hr Flow 16 BO/hr
Swbd 20 BO/hr
Shut in 1/68 #/sq in - 1240
after 1 hr Flowed
4/2 BO/hr & 1 MCFD est. 1 MCF
Comp. 7-27-36

Gulf
King"3
Elev 3469'

T.D. 3804'

Perfed 4 SSMagnet Fls 105
BOPD 1256 MCFD Before
acid "B" BOPD Before set
375 gal 15% DS/SA Acid
w/1334 #/gal Comp
6-16-38

TRINITY
Wantz"1
ELEV 3489

T.D. 3815'

Spray jet - 35 no - 37
f 101 no - 168
Treat 3000 gal Flow
24 hr wf 232 MCF no
4 hr Treat 3000 gal
Treat 2 hr no flow SL
IPF 2150 no - 976 MF
Comp 8-10-37

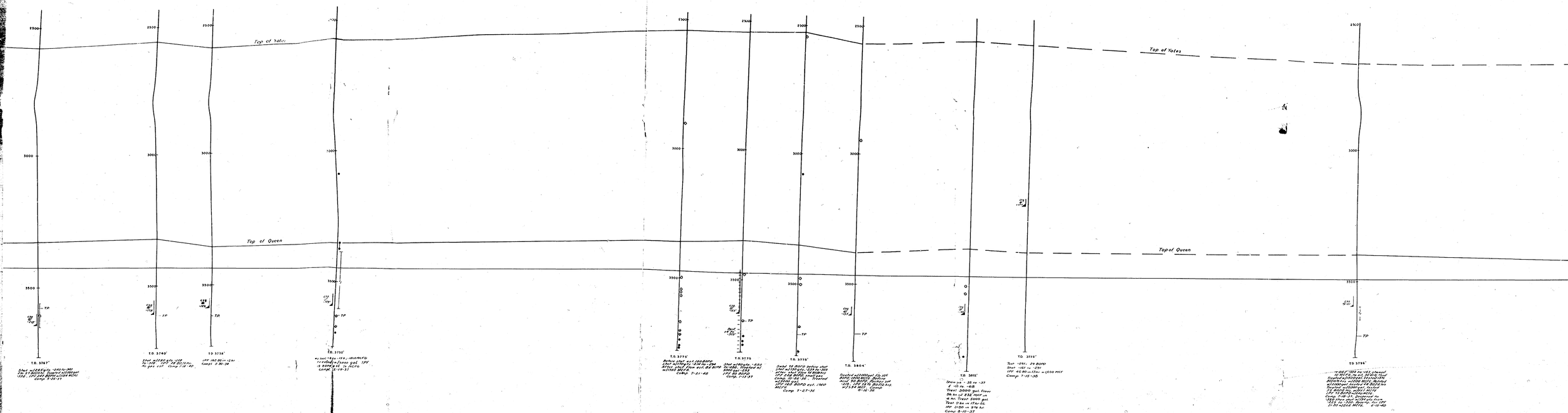
TRINITY
Wantz"2
ELEV 3484

T.D. 3725'

Test -291 - 29 BOPD
Shut -162 no - 1291
IPF 40 BO no - 1030 MCF
Comp 7-12-36

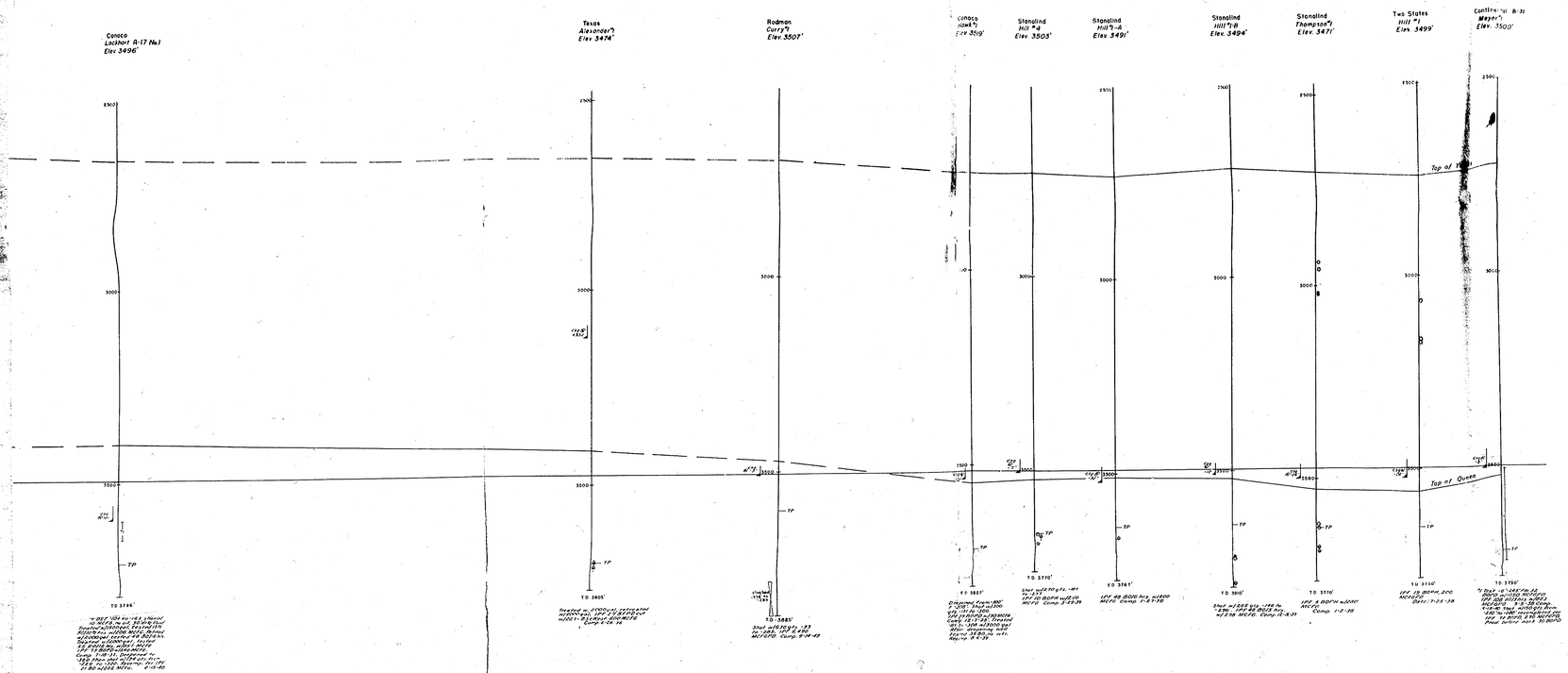
Conoco
Lockhart R-17 No.1
Elev 3496'

T.D. 3796'

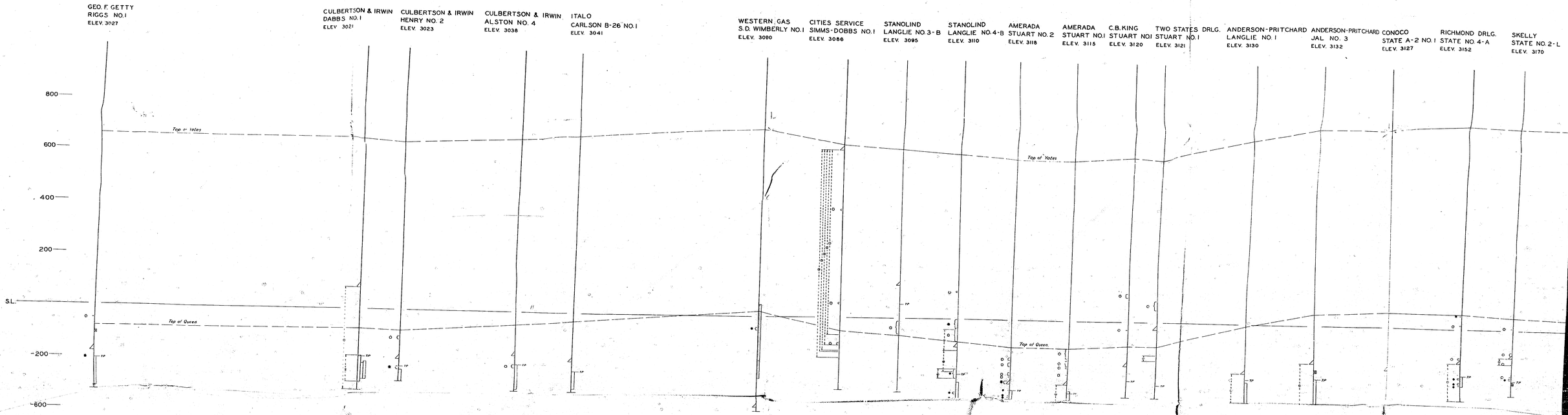


NORTH-SOUTH SECTION E-2

Scale Vertical 1"=100'
Horizontal 1"=400'



EXH. NO. 9


800
600
400
200
S.L.
-200
-600
Top of Yates
Top of Queen
GEO. F. GETTY
RIGGS NO. 1
ELEV. 3027
CULBERTSON & IRWIN
DABBS NO. 1
ELEV. 3021
CULBERTSON & IRWIN
HENRY NO. 2
ELEV. 3023
CULBERTSON & IRWIN
ALSTON NO. 4
ELEV. 3038
ITALO
CARLSON B-26 NO. 1
ELEV. 3041
WESTERN GAS
S.D. WIMBERLY NO. 1
ELEV. 3080
CITIES SERVICE
SIMMS-DOBBS NO. 1
ELEV. 3086
STANOLIND
LANGLIE NO. 3-B
ELEV. 3095
STANOLIND
LANGLIE NO. 4-B
ELEV. 3110
AMERADA
STUART NO. 2
ELEV. 3118
AMERADA
STUART NO. 1
ELEV. 3115
C.B. KING
STUART NO. 1
ELEV. 3120
TWO STATES DRLG.
STUART NO. 1
ELEV. 3121
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
Show gas -58
Show oil & gas -211, sub 2 BOPH thru casing
Shot w/260 qts. from -211 to -319
Packer at -116
IPF 73 BOPD, 100 MCFGPD
Comp. 4-12-38
Test #1: -72 to -310 rec 1000 MCFGPD, 200 ft oil on 68 bbs
Shot w/250 qts from -180 to -280
Test #2: After shot 3 BOPH est 8000 MCFGPD
Shot w/100 qts from -169 to -269
Shot w/230 qts from -202 to -269
IPF 69 BOPD
Comp. 8-13-38
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
Est 3000 MCFGPD at -157
Show gas -203 to -214
Shot w/185 qts. from -2021 to -296
IPF 4 BOPD
Comp. 6-13-38
Shot w/260 qts from -222 to -289
IPF 4 BOPD w/100 MCFGPD
Comp. 4-23-39
Show oil -40 to -50
Perf csg from -165 to -235, some salt water, rainbow of oil
Perf csg from -166 to -165
IPF 2500 MCFGPD
Comp. 3-20-65
Test #1: -636 to -64 180PH
Show gas -411 to -497
Show gas -56 to -91
Show gas -97 to -105
Test #2: -636 to -105 12000 MCFGPD
Test #3: -636 to -126 33,000 MCFGPD
Test #4: -636 to -130 32,000 MCFGPD
Test #5: -636 to -152 35,000 MCFGPD
IPF 37,000 MCFGPD
Comp. 11-28-38
Show gas -11 to -60
IPF 14,250 MCFGPD
Comp. 8-30-37
DST #1: -401 to -420 8500 MCFGPD
DST #2: -1210 to -1200
Show gas -105 to -100
Show oil & gas -2 to -35
Show gas -35 to -85
DST #3: -1100 to -1216 est 2000 MCFGPD 6
Show oil
Show oil -278 to -285
Inc oil: -302 to -308
Shot w/171 qts from -240 to -305
IPF 65 BO/55 w. 50 MCFPD
Comp. 9-5-38
Stt. show gas -142 to -152
Show gas -162 to -177
Show gas -188 to -210
Show gas -216
Show oil & gas -230 to -242
Show oil -267
Show oil -287
Show oil -292
Show oil -303
Show w/sqts from -267 to -300
IPF 156 BOPD GOR 1175
Comp 6-10-38
Show gas -105 to -165
Show gas -150 to -171
Show gas -173 to -179
Show gas -203
Test #2: -241 to -209 sub 180PH
Shot w/30 qts from -266 to -300
IPF 1176 BOPH w/455 MCFGPD
Comp. 11-16-57
Show gas -1608 to -92
Show gas -30
IPF 16 BOPH 400 MCFGPD
Comp. 11-24-37
Show gas -84 to -92
Test #1: -106 to -165 3000 MCFGPD
IPF 15 BOPH 200 MCFGPD
Comp. 8-8-37
Test #1: -186 to -300 swb 2 BOPH
Shot w/280 qts. from -220 to -300
IPF 4.74 BOPH GOR 1650
Comp. 2-12-40
Test #1: -142 to -300 Flow 25 BO/13 bfw.
Shot w/300 qts from -202 to -300
IPF 168 BOPD 840 MCFGPD bellow 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 -115
Show oil -183 to -189
Show oil -201 to -208
Show oil -213
Test #1: -128 to -272 Flow 85 BOPD
Shot w/150 qts from -178 to -218
IPF 106 BO/12 hrs 974 MCFGPD
Comp. 9-28-39
Show gas - 8 est 1000 MCFGPD
Inc. gas -86 to -105 est 3000 MCFGPD
Show gas -128
Stt. show oil -184 to -188
Test #1: -106 to -150 4700 MCF sweet gas/day
Salad gas at 175
IPF 188 BOPD beneath packer at -207
Comp 1-20-40

NORTH-SOUTH SECTION E-3

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

ESTERN GAS
ATE NO. 1-B
EV. 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 NO. 1
ELEV. 3250

TRINITY DRLG.
MATTIX NO. 3-B
ELEV. 3250

TRINITY DRLG.
MATTIX NO. 2-B
ELEV. 3256

TRINITY DRLG
MATTIX NO. 4-B
ELEV. 3258

TRINITY DRLG.
MATTIX NO. 1-A
ELEV. 3256

AMON G. CARTER
BLINEBRY NO. 2
ELEV. 3252

Top of Yates

Top of Queen

Top of Queen

S.L.

800
600
400
200
-200
-400
-600

...as -789
...t to -6
...26 to -36 est 1000 MCFGPD
...61
...gas -207 to -210
...1 to -260 flow 12780 MCFGPD
...s from -204 to -235
...r at -193
...MCFGPD below packer
...26-40

Sh. show gas -803 to 785
Show gas -82 to -97
Show gas -68 to -87 est 250 MCFGPD
Show gas -96 to 100
Show gas -100
Show gas -203 to 200
Inc gas -217 to -222
Inc gas, -271
Shot w/140 qts from -200 to -232
Set packer at -179
IPF 27 BO/6hrs.
Comp. 2-16-39

Test #1: -76 to -326 Flow 1050 MCFGPD, no oil
IPF 2000 MCFGPD
Shot w/520 qts. -111 to -271
Comp. 2-2-40

Shot from -132 to -232 w/905 qts

Test #1: -90 to -204 Flow 3120 MCFGPD
Test #2: -90 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 -103
Show gas -111 to -114
Inc gas -115
Inc gas -125 to -141
Inc gas -159
Show oil -165
Inc gas -203 to -308
Inc gas -233 to 238
Test #2: -2 to -573 Flow 12 gpm fluid/hr
95 water 950 MCFGPD
Tr-test w/10000 gals; 3146 MCFGPD, no fluid
IPF 3146 MCFGPD, no fluid
Comp. 6-26-40

At -54 had 16,200 MCF gas
Test #1: -150 to -303 Flow est 30 BOPD
Set packer at -284
Treated w/wet.ac at 1500 gals
IPF 174 BOPH w/250 MCFGPD
Comp. 7-20-42

Show gas -10
Shows 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. 5-17-49

Show gas -119
Show oil -172 to -176
Show oil -186 to -190
Shot w/590 qts from -154 to -264
IPF 80 BOPD
Comp. 2-2-40

Test #1: -9 to -256 Flow 72 BOPH w/500 MCFGPD
Test #2: -9 to -287 Flow 26 BOPD w/62 MCFGPD
Shot w/390 qts from -129 to -280
IPF 158 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 -106 to -264
IPF 6 BOPH
Comp. 7-28-40

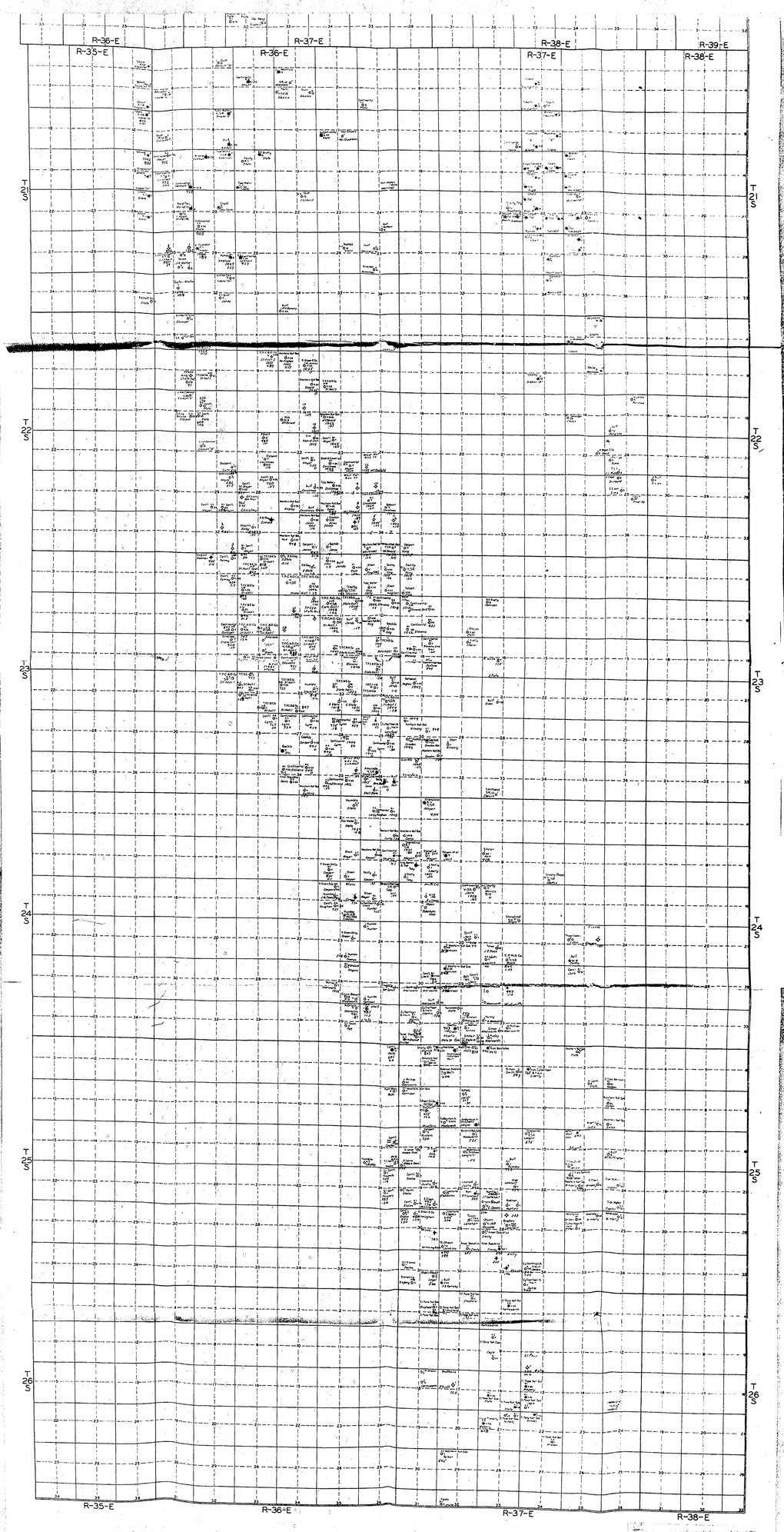
Show oil & gas -208
Show oil & gas -219 to -224
Show oil & gas -237 to -242
Shot w/240 qts from -175 to -239
IPF 168 BOPD
Comp. 5-7-41

Shot from -163 to -308 w/670 qts.
IPF 46 BOPD
Comp. 10-22-50

Show oil -193 to -198
Show oil -203 to -209
Show gas -216
Shot w/520 qts from -158 to -284
IPF 163 BOPD
Comp. 5-16-50

EXH. NO. 20

T 17 S
T 18 S
T 19 S
T 20 S
T 21 S
T 22 S
T 23 S
T 24 S
R-39-E
R-38-E
R-37-E
R-36-E
R-35-E



INDEX TO PRODUCING FORMATIONS

Y——Yates
SR——Seven Rivers
Q——Queen
G——Grayburg
SA——San Andres
Gl——Glorieta
Sim——Simpson

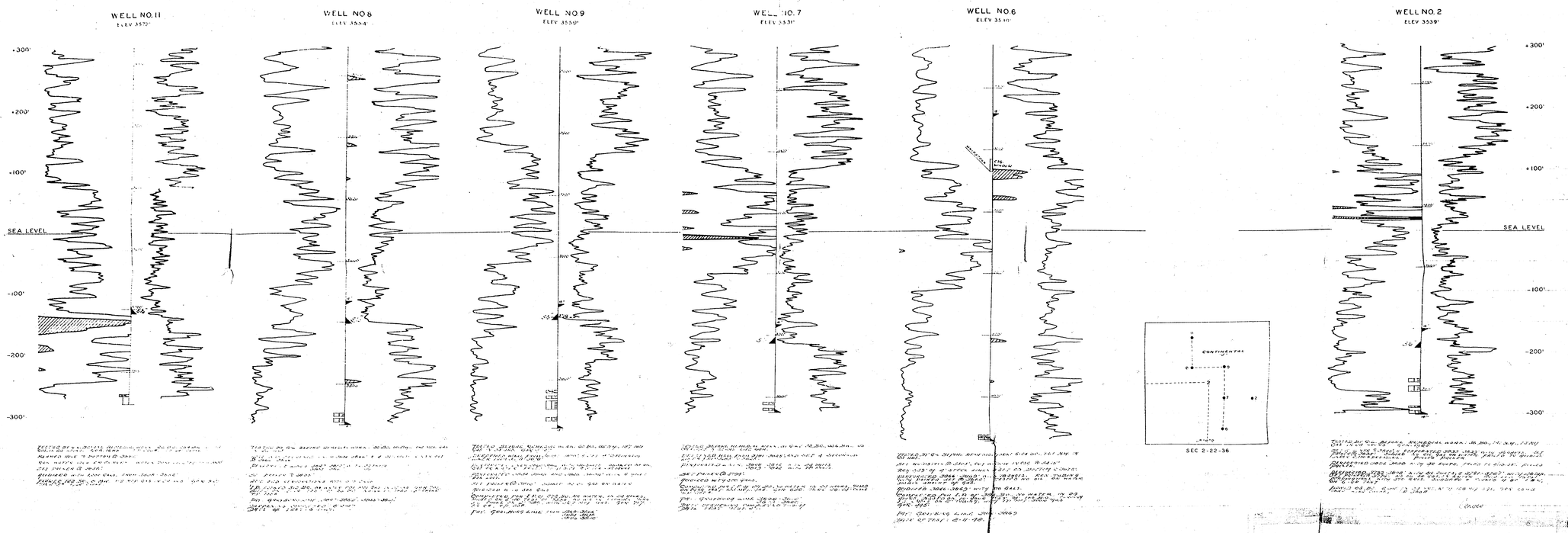
DRY GAS PRODUCTIVE WELLS
LEA COUNTY, NEW MEXICO
SCALE 1" = 4000'

LEGEND

Gas Well
Prod. Gas Zone
Abandoned Well
Dual Completion

EXH. NO. 21

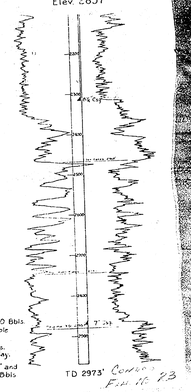
STATE J-2 LEASE



EXH. NO. 22

BEFORE THE OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO
Continental Exhibit No. 23
CASE 673
5-16-57

Continental Oil Company
Ida Hendricks No. 1
Sec. 33, Blk. 26, PSL Sur., Winkler Co., Tex.
Elev. 2837'



Comp. 5-6-28 @ 2880' TD, w/ 240 Bbls. oil /hr., no water, from open hole 2795-2880.
In October, 1935, tested 30 Bbls. oil and 1500 Bbls. water per day.
On 10-25-50, deepened to 2973' and 7" casing set @ 2870', for 300 Bbls oil, no water, per day

TD 2973'

Case 673

CONTINENTAL OIL COMPANY
PROPOSAL OF UTTS

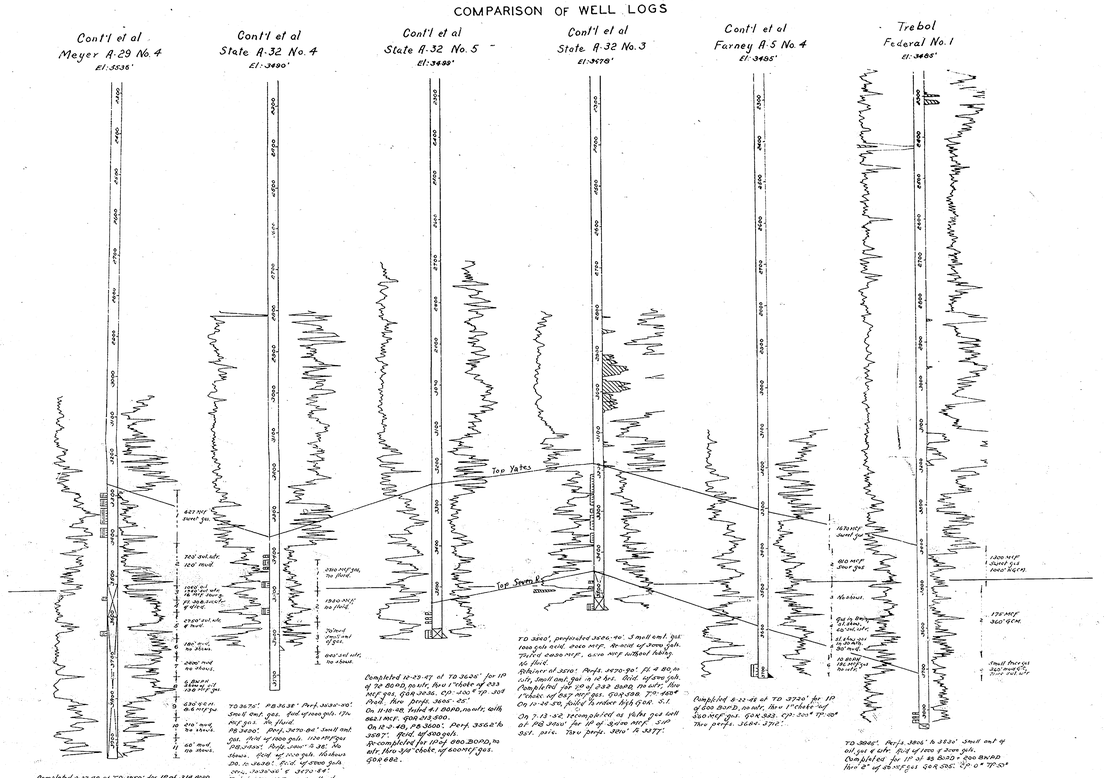
(c) The allocation to a unit resulting after subtracting the acreages of marginal units shall be divided and allocated ratably among the non-marginal units in the amount that the acreage contained in each unit bears to the total acreage allotted to such non-marginal units; provided that for this purpose standard units as defined in Rule 605 above shall be deemed to contain 160 acres. For purposes of assigning allowables to the unit, the unit or proration shall consist of not less than 100 acres nor more than 640 acres. More than one proration unit may be assigned to a gas well and the allowables assigned each well, as provided for, proportionately provided that:

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

(2) the multiple unit so formed shall not have an average oil [illegible] of [illegible] greater than [illegible]

(3) the [illegible] shall not [illegible] any [illegible] unit [illegible] unless [illegible] unit [illegible] and [illegible] unit [illegible] the [illegible] of [illegible] unit [illegible] such [illegible] boundary, provided further that where [illegible] the well shall not be located [illegible] feet from the nearest boundary of any unit so pooled.

COMPARISON OF WELL LOGS



EXH. NO. 24