Case Number

3705

Large

Exhibits

N.M.R.C.P. MICROGRAPHICS

BEST AVAILABLE COPY

LANE RADIOACTIVITY LOG WELLS
COMPANY

FILE NO.

Location of Well

COMPANY: SUNRAY MID CONTINENT OIL CO.
WELL: STATE "I" NO. 1
FIELD: LANE WOLFCAMP
COUNTY: LEA STATE: NEW MEX.
LOCATION: 660' FSL & 1980' FWL, SEC. 36
T-9-S, R-33-E.

COMPANY: SUNRAY MID CONTINENT OIL CO
WELL: STATE "I" NO. 1
FIELD: LANE WOLFCAMP & CISCO
COUNTY: LEA STATE: NEW MEXICO
LOCATION:

LOG MEAS. FROM KELLY DRIVE BUSHING ELEV. 4287
DRLG. MEAS. FROM KELLY DRIVE BUSHING ELEV. 4287
PERM. DATUM 13 3/8" CASING FLANGE ELEV.

TYPE OF LOG	GAMMA RAY	NEUTRON	RECORDED SIMULTANEOUSLY
RUN NO.	ONE - NW	ONE - NW	
DATE	6-22-56	6-22-56	
TOTAL DEPTH (DRILLER) (STRAIN)	9850	9850	
EFFECTIVE DEPTH (DRILLER)	9825	9825	
TOP OF LOGGED INTERVAL	2400	2400	
BOTTOM OF LOGGED INTERVAL	9817	9826	
TYPE OF FLUID IN HOLE	MUD	MUD	
FLUID LEVEL	FULL	FULL	
MAXIMUM RECORDED TEMP.	-	-	
NEUTRON SOURCE STRENGTH & TYPE	-	600 - M	
SOURCE SPACING — IN.	-	3.75	
LENGTH OF MEASURING DEVICE — IN.	36"	9.2*	
O.D. OF INSTRUMENT — IN.	3 5/8	3 5/8	
TIME CONSTANT — SECONDS	5.76	2.88	
LOGGING SPEED FT. MIN.	20-35	20-35	
STATISTICAL VARIATION — IN.	-	-	
SENSITIVITY REFERENCE	274	D-368	
RECORDED BY	AMALONG	AMALONG	
WITNESSED BY	HALL	HALL	

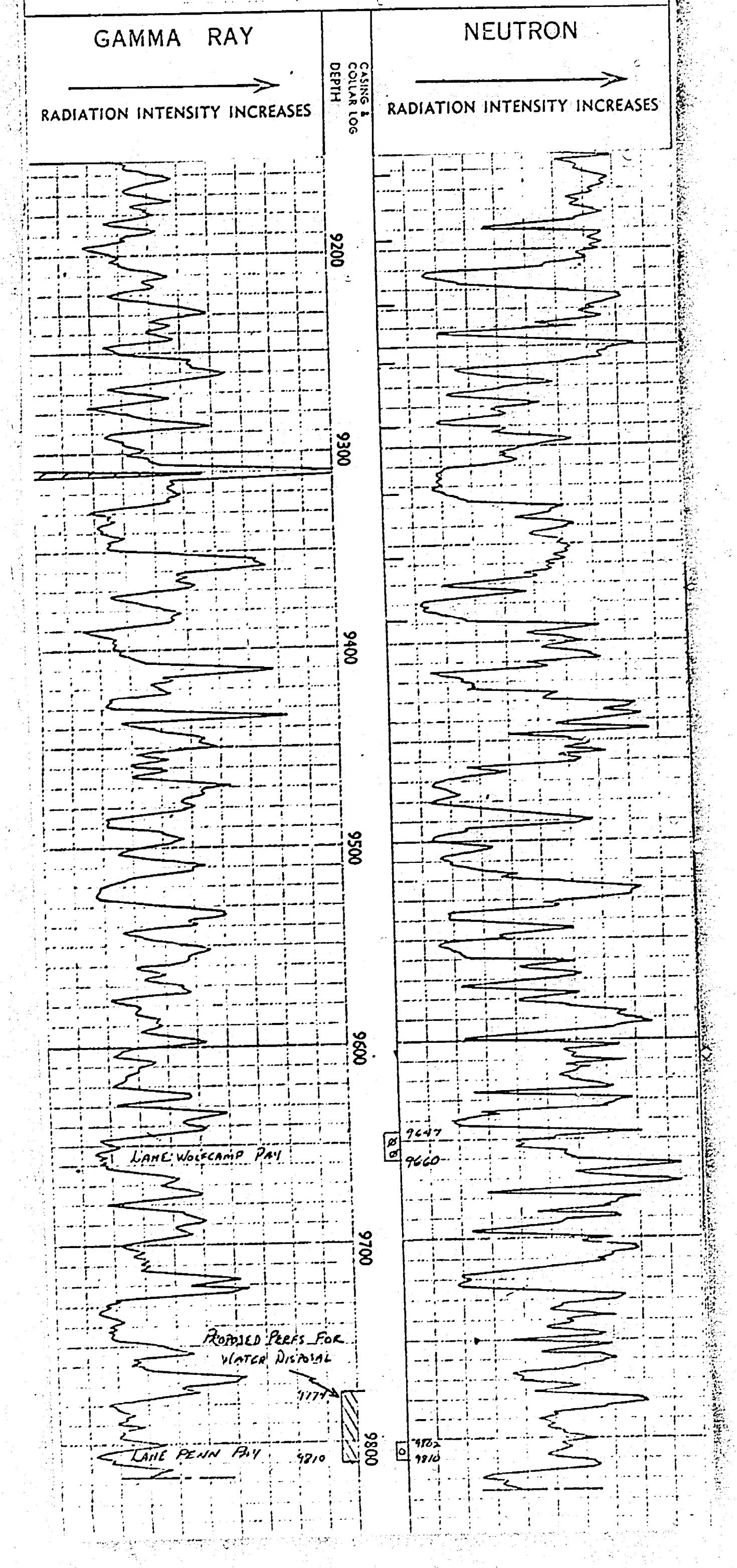
BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
BTH EXHIBIT NO. A
CASE NO. 3705

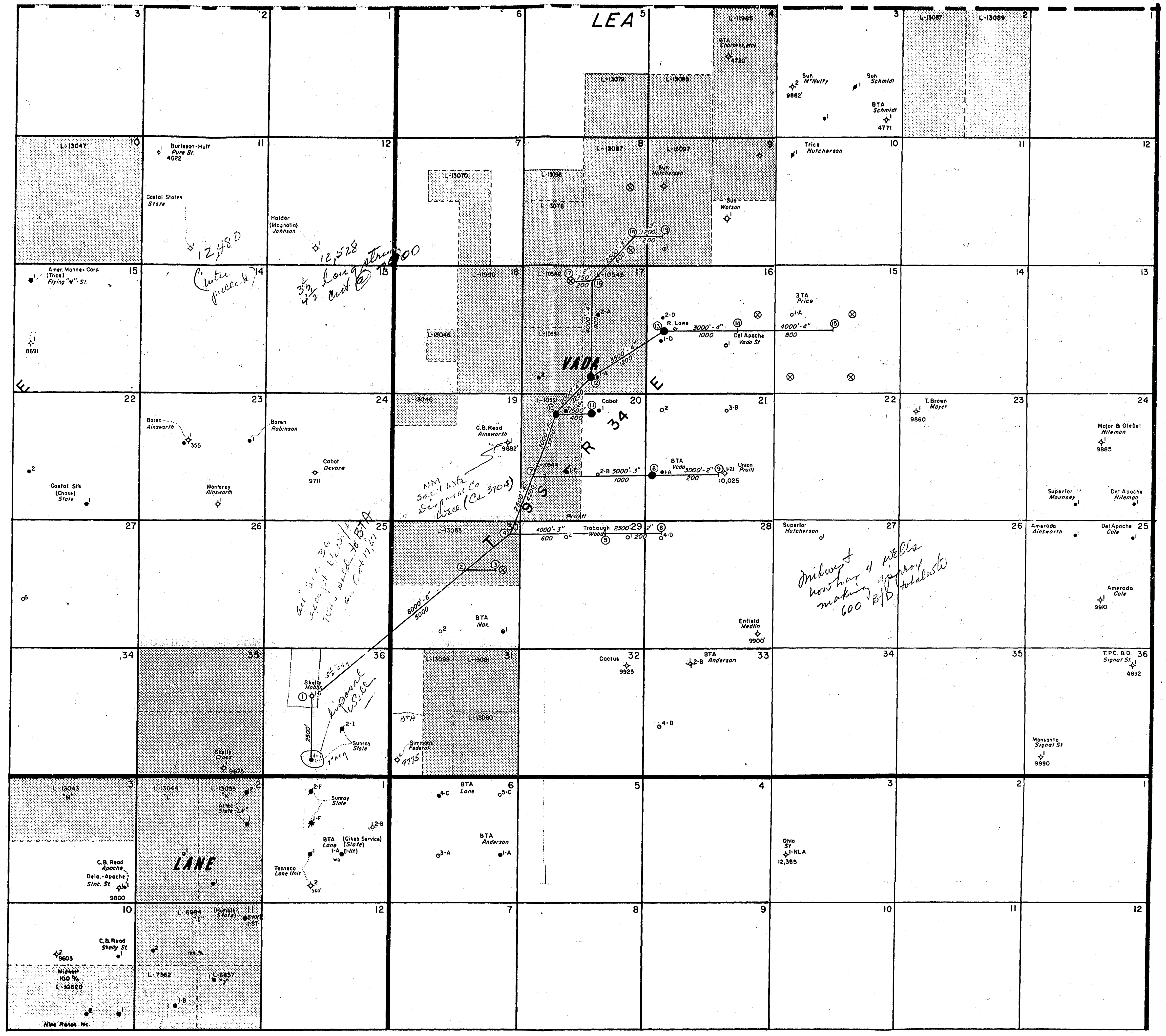
CASING RECORD

RUN NO.	BIT SIZE	CASING	WT.—LB.	FROM WELL RECORD		FROM R/A LOG	
ONE	17 1/2	13 3/8		SURFACE	TO 320	SURFACE	TO
ONE	12 1/4	9 5/8		SURFACE	TO 3995	SURFACE	TO
ONE	8 3/4	7		SURFACE	TO 9850	SURFACE	TO 9828
					TO		TO
					TO		TO

REMARKS OR OTHER DATA

* TYPE "C-209-B" NEUTRON CHAMBER.




LEA
VADA
LANE
T 9 S
R 34 E
Burleson-Huff Pure St. 4022
Costal States State
12,480
(Cutler pulled)
Holder (Magnolia) Johnson
12,528
3½ 4½ Long string out @ 7000
NM Salt Water Disposal Co Well (Ca. 3704)
Skelly Hobbs
Disposal well
Sunray State
Simmons Federal
9775
Midwest now has 4 wells making approx 600 B/D total water
Superior Hutcherson
Enfield Medlin 9900'
Union Pruitt 10,025
C.B. Read Ainsworth 9882'
Cabot Devore 9711
BTA Max
8000'-6" 5000
4000'-3" 600
Trobough Wood
2500'

-LEGEND-

- ● TANK BATTERY
- ⊗ UNDRILLED WELL LOCATIONS
- ⑩ TERMINAL POINTS
- $\frac{2500'-6"}{5000}$ LINE LENGTH & SIZE BWPD

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Appl. EXHIBIT NO. 6
CASE NO. 3705

MIDWEST OIL CORPORATION

MIDLAND, TEXAS

VADA PENN.

LEA COUNTY, NEW MEXICO

PROPOSED SWD SYSTEM

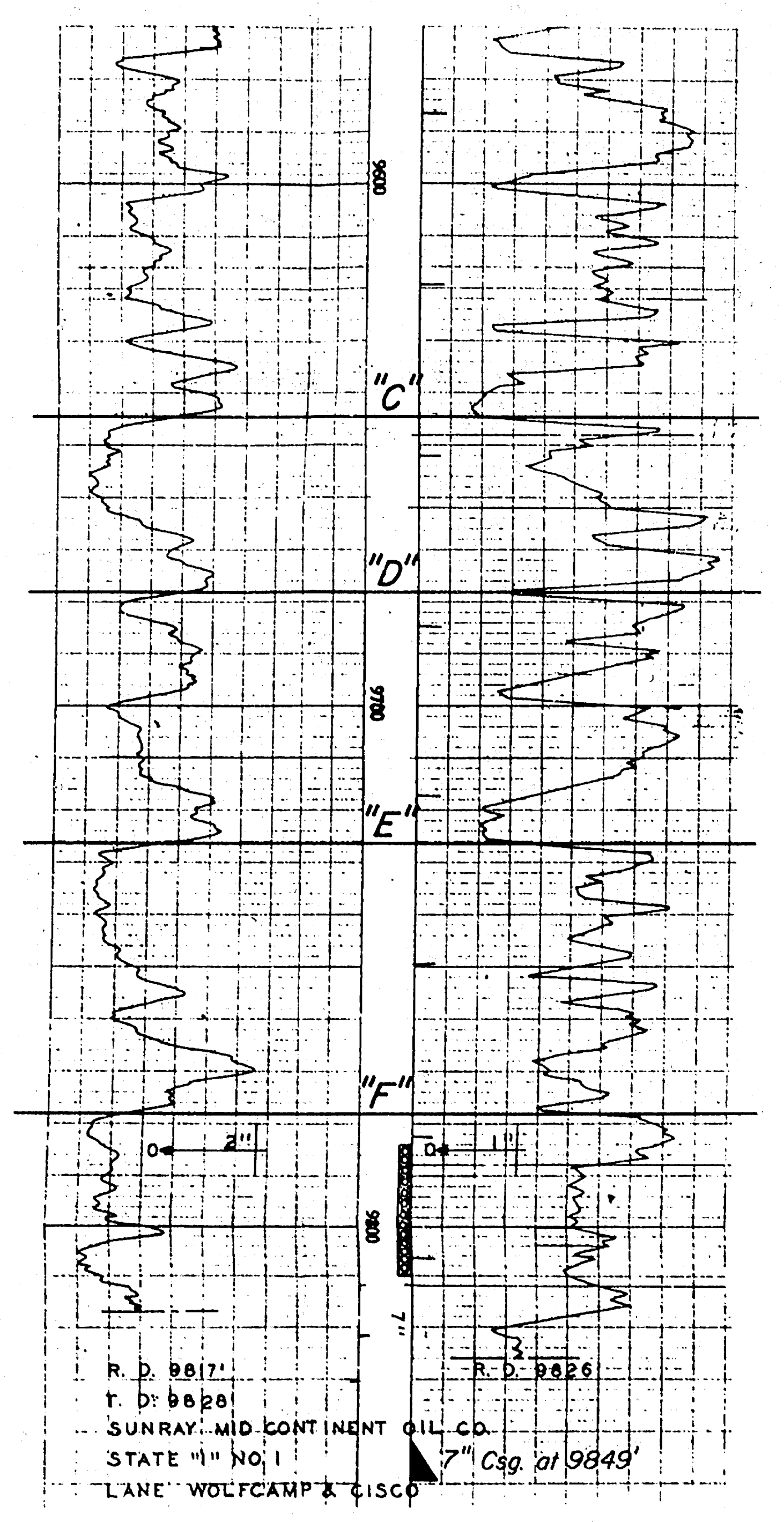
SCALE 1" = 2000'

DATE 12-18-67
BY B. Baker

nfg

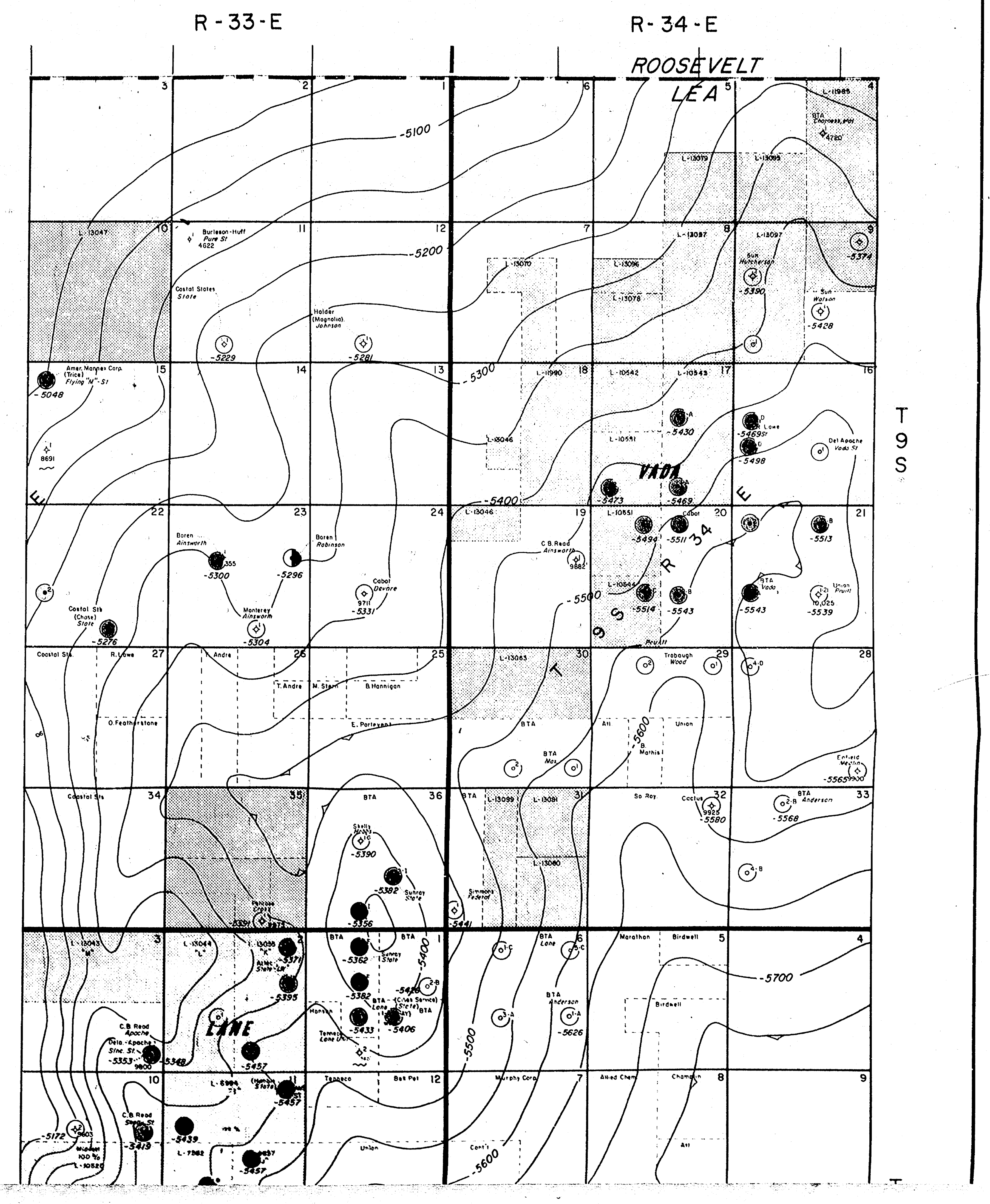
N.M.O.C.D. MICROGRAPHICS
BEST AVAILABLE COPY

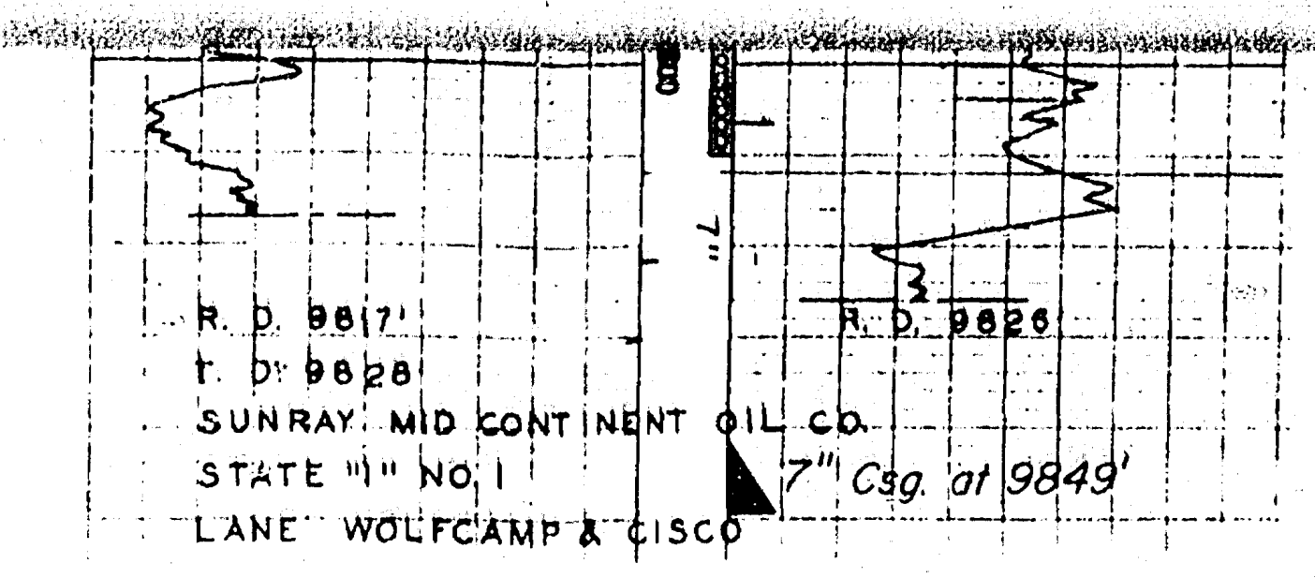
Sunray
No. 1 State I



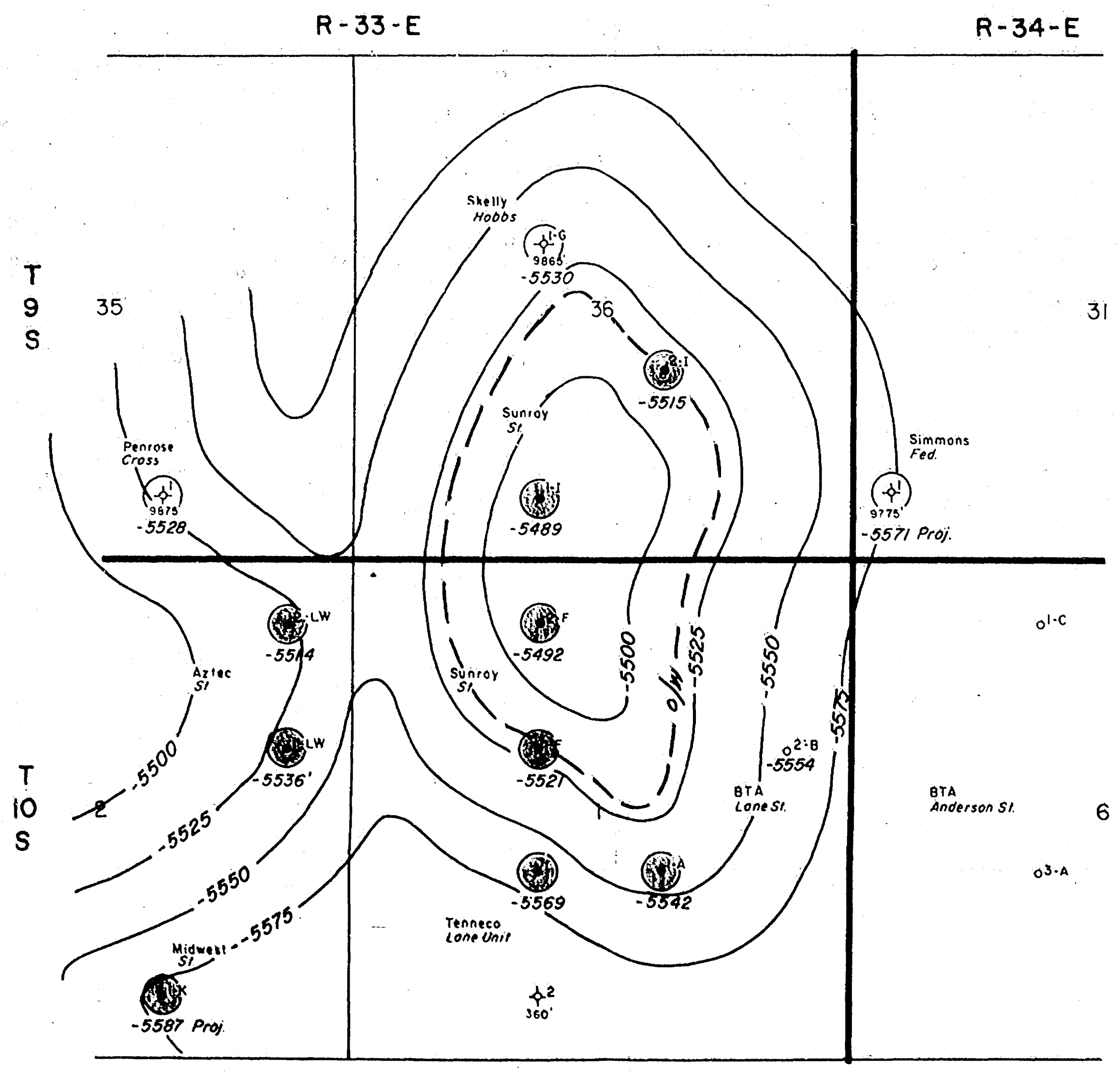
No DST in "F" Zone
Perf. 9784 - 10' Ac/500 MA
IPF 280 BOPD 1/4" ch.
TP 580 #, GOR 1700, Grav. 42.1°
Dually Completed From
"C" and "D" Zone 7-4-56

R-33-E R-34-E

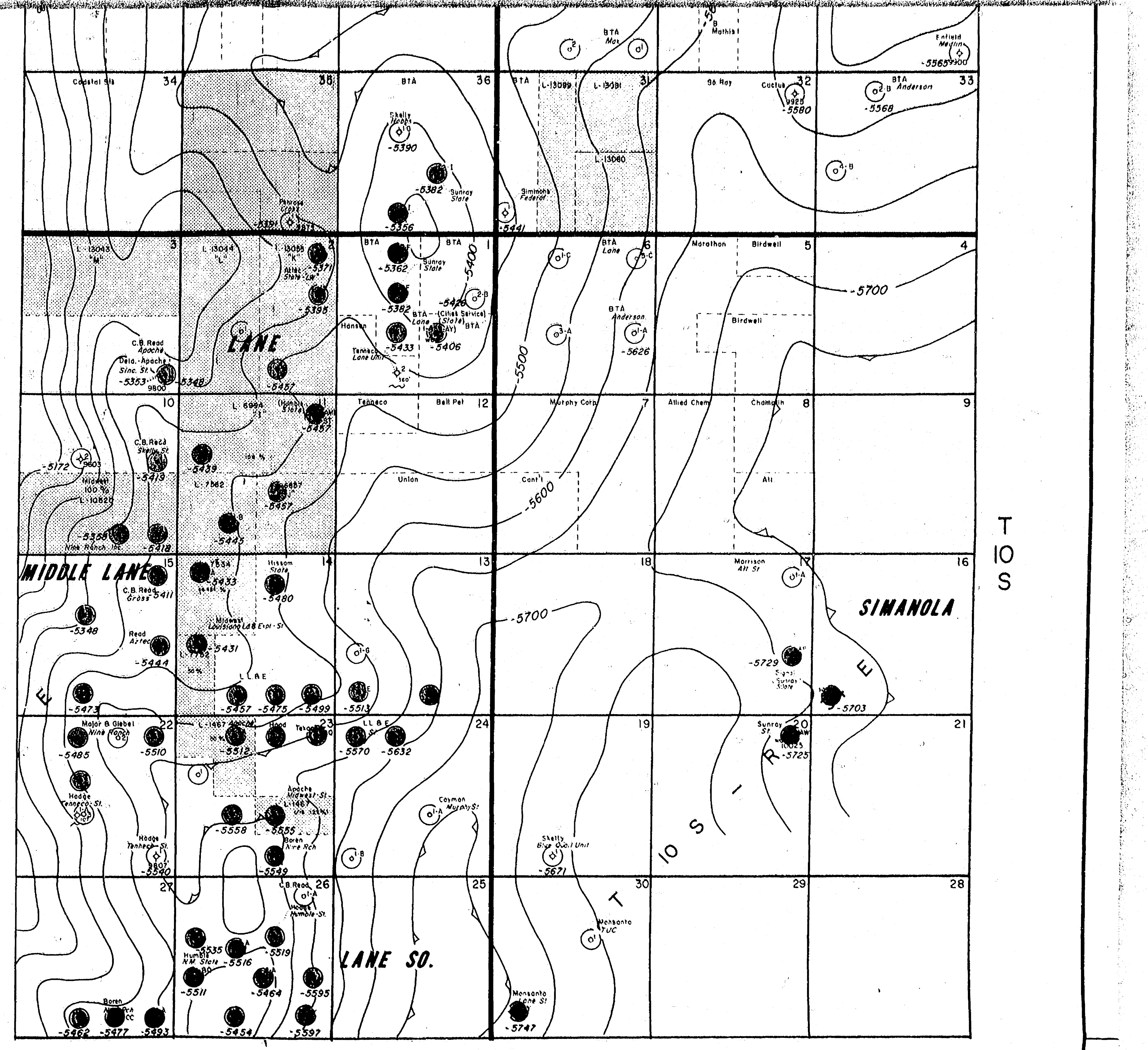

R-33-E
R-34-E
ROOSEVELT
LEA
T 9 S
T 9 S R 34 E
VADA
LANE
-5100
-5200
-5300
-5400
-5500
-5600
-5700
Amer. Mannex Corp. (Trice) Flying "M" - St
-5048
Burleson-Huff Pure St 4622
Costal States State
Holder (Magnolia) Johnson
-5229
-5281
L-13047
L-13070
L-13096
L-13078
L-13079
L-13095
L-13097
L-11985
BTA Chorness, etal 4720'
Sun Hutcherson
-5390
Sun Watson
-5428
-5374
L-11990
L-10542
L-10543
L-10591
L-13046
L-10651
L-10644
R Lowe
-5469 St
-5498
-5430
-5473
-5469
Del Apache Vada St
8691
Boren Ainsworth
-5300
Boren Robinson
-5296
Monterey Ainsworth
-5304
Cabot Devore
9711
-5331
Costal Sts (Chase) State
-5276
C.B. Read Ainsworth
9882
-5494
Cabot
-5511
-5513
-5514
-5543
BTA Vada
-5543
Union Pruitt
10,025
-5539
Pruitt
Coastal Sts.
R. Lowe
T. Andre
M. Stern
B. Hannigan
O. Featherstone
E. Porteyent
L-13063
BTA
BTA Max
Trobough Wood
Atl
Union
B. Mathis
Enfield Medlin
-5565
9900
Coastal Sts
BTA
L-13099
L-13081
L-13080
So Ray
Cactus
9925
-5580
BTA Anderson
-5568
Skelly Hobbs
-5390
-5382
Sunray State
-5356
Penrose Cobb
-5391
Simmons Federal
-5441
L-13043 "M"
L-13044 "L"
L-13035 "K"
Aztec State "LR"
-5371
-5395
-5362
-5382
-5426
BTA Lane
(Cities Service) (State)
-5433
-5406
Tenneco Lane Unit
Hanson
C.B. Read Apache
Dela.-Apache Sinc. St.
-5353
9800
-5348
-5457
BTA Lane
BTA Anderson
-5626
Marathon
Birdwell
L-6984
(Hanson State)
-5457
Tenneco
Bell Pet
Murphy Corp
Allied Chem
Champlin
Union
Cont'l
Atl
C.B. Read Skelly St
-5413
-5172
9603
Midwest 100 %
L-10520
-5439
L-7382
-5457


R. D. 9817'
T. D. 9828
SUNRAY MID CONTINENT OIL CO.
STATE "1" NO. 1
LANE WOLFCAMP & CISCO
7" Csg. at 9849'
R. D. 9826

No DST in "F" Zone
Perf. 9784 - 10' Ac/500 MA
IPF 280 BOPD 1/4" ch.
TP 580 #, GOR 1700, Grav. 42.1°
Dually Completed From
"C" and "D" Zone 7-4-56


R-33-E
R-34-E
T 9 S
T 10 S
35
36
31
6
2
Skelly Hobbs
1-G
9865'
-5530
2-I
-5515
Sunray St.
1-I
-5489
Penrose Cross
1
9875'
-5528
Simmons Fed.
1
9775'
-5571 Proj.
2-LW
-5514
F
-5492
Aztec St
1-LW
-5536'
Sunray St.
E
-5521
o1-C
2-B
-5554
BTA Lane St.
BTA Anderson St.
o3-A
-5569
A
-5542
Tenneco Lane Unit
2
360'
Midwest St.
1-X
-5587 Proj.
-5500
-5525
-5550
-5575
O/W

CONTOURED ON BOUGH "F" FORMATION
(LANE PENN. FACTOR)
C.I. - 25' Scale - 1" = 1000'


34
35
36
31
32
33
3
2
1
6
5
4
10
11
12
7
8
9
15
14
13
18
17
16
22
23
24
19
20
21
27
26
25
30
29
28
LANE
MIDDLE LANE
LANE SO.
SIMANOLA
T 10 S
T 10 S - R 34 E
BTA
Skelly State
Sunray State
-5390
-5382
-5366
-5362
-5406
-5433
-5457
-5439
-5418
-5415
-5433
-5431
-5444
-5460
-5457
-5475
-5499
-5513
-5570
-5632
-5485
-5510
-5512
-5558
-5535
-5549
-5516
-5519
-5511
-5464
-5595
-5454
-5597
-5462
-5477
-5493
-5626
-5580
-5568
-5565
-5729
-5703
-5725
-5621
-5747
-5400
-5500
-5600
-5700
Marathon
Birdwell
Murphy Corp.
Allied Chem.
Chambers
Morrison
Union
Tenneco
Humble
Simmons Federal
Anderson
Cosden
Monsanto
Shell
Apache
Midwest
C.B. Read
Hodge
Aztec

CONTOURED ON BOUGH "C" FORMATION
(LANE WOLFCAMP FACTOR)
C.I. - 50' Scale - 1" = 2000'

=LEGEND=

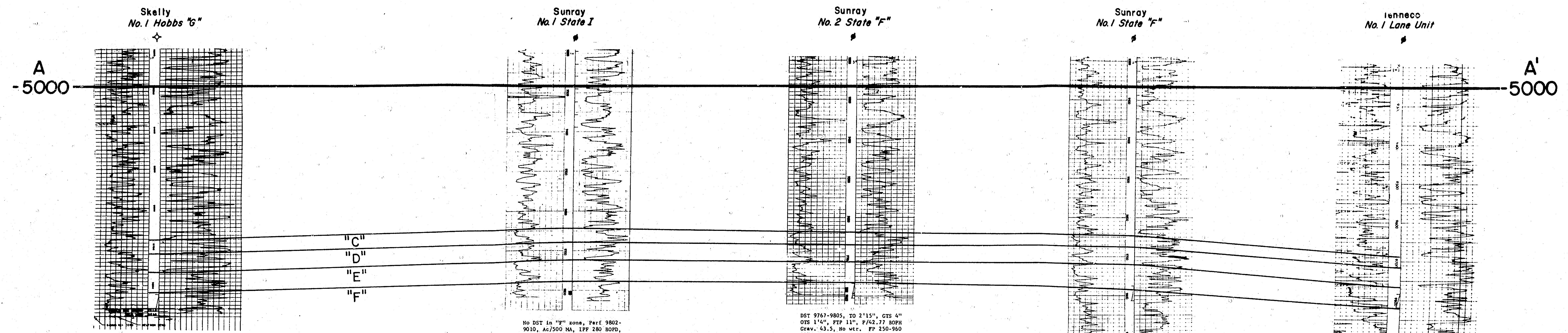
○	San Andres
●	Abo
●	Bough "C"
●	Bough "F"
●	Strawn

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Applicant EXHIBIT NO. 16
CASE NO. 3705

MIDWEST OIL CORPORATION
MIDLAND, TEXAS

VADA & LANE AREAS
LEA COUNTY, NEW MEXICO

DATE 2-9-67


Skelly
No. 1 Hobbs "G"
Sunray
No. 1 State I
Sunray
No. 2 State "F"
Sunray
No. 1 State "F"
Tenneco
No. 1 Lane Unit
A
-5000
A'
-5000
"C"
"D"
"E"
"F"

DST 9824-63, TO 4', GTS 3'
Rec 120' GC & SLOCM, 3860' XW
FP 200-2140, 20" FSIP 3295
P & A 7-2-57, Re-Entry by
Morris R. Antwell 11-5-57
Perf in Bough "C"-compl. un-
successful, P & A 9-23-58

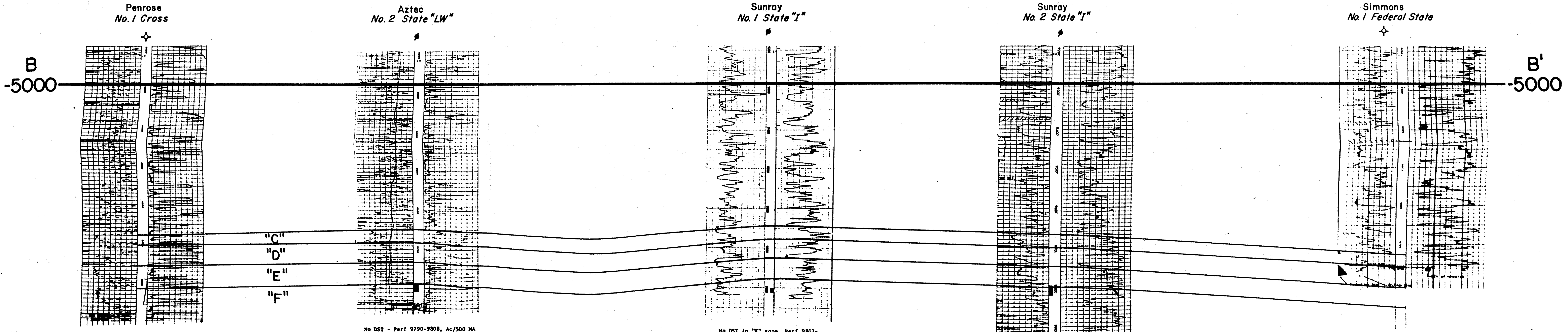
No DST in "F" zone, Perf 9802-
9010, Ac/500 MA, IPF 280 BOPD,
1/4" ch, TP 5800, GOR 1700,
Grav. 42.1 Dually completed
from "C" and "F" zones 7-4-56

DST 9767-9805, TO 2'15", GTS 4"
OTS 1'4", FTP 11", F/42.77 BOPH
Grav. 43.5, No wtr. FP 250-960
30" FSIP 3525, Perf 9779-90, 93-
804, Ac/500 MA IPF 299 BOPD
12/64" ch, TP 825, GOR 1600, Grav.
49.5, P & A 1965, Later completed
from "C" zone

DST 9775-9813, TO 1'30", GTS 8"
MTS 15" OTS 20", TTP 10",
F/24.62 BOPH, Grav. 45.5°, Rev 0
& Rec 20' oil below sub, FP 555-
2535, 20" FSIP 3295 Completed
as "C" producer 12-10-55. Later
Re-completed in Strawn then "F"
zone. P & A 1965

DST 9784-9820, TO 1', Rec 150'
SLGCM, 66' MCXW, FP 145-450, 60"
FSIP 3495 Completed as "C" pro-
ducer P & A 1961

NORTH - SOUTH CROSS - SECTION


Penrose
No. 1 Cross
Aztec
No. 2 State "LW"
Sunray
No. 1 State "I"
Sunray
No. 2 State "I"
Simmons
No. 1 Federal State
B
-5000
B'
-5000
"C"
"D"
"E"
"F"

DST 9792-9875, TO 2', Rec 270' XW
& GCM, 1050' XW, 5' SLOCXW, 30"
ISIP 3165, FP 390-785, 30" FSIP
3120 P & A 3-19-58

No DST - Perf 9790-9808, Ac/500 MA
Swb dry Ac/1500, Swb LO & 35 BXW
Completed as "C" producer P&A 1960

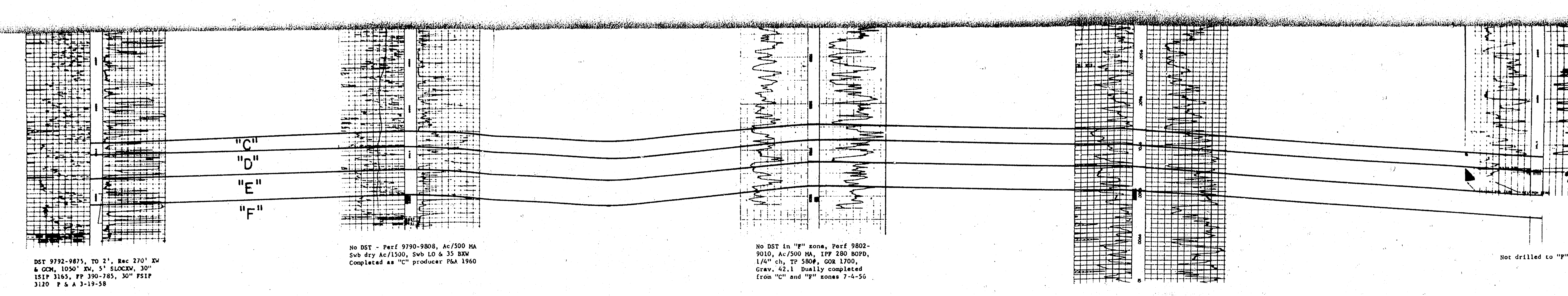
No DST in "F" zone, Perf 9802-
9010, Ac/500 MA, IPF 280 BOPD,
1/4" ch, TP 5800, GOR 1700,
Grav. 42.1 Dually completed
from "C" and "F" zones 7-4-56

No DST - Perf 9796-9820 Ac/500 MA
Swb LO & Ac wtr, Swb 16 BXWPH FL-
2200', Completed from "C" P&A 1960

Not drilled to "F" zone

WEST - EAST CROSS - SECTION

V.E.M.C.F. MICROGRAPHICS
BEST AVAILABLE COPY



DST 9792-9875, TO 2', Rec 270' XW & GCM, 1050' XW, 5' SLOCXW, 30" ISIP 3165, FP 390-785, 30" FSIP 3120 P & A 3-19-58

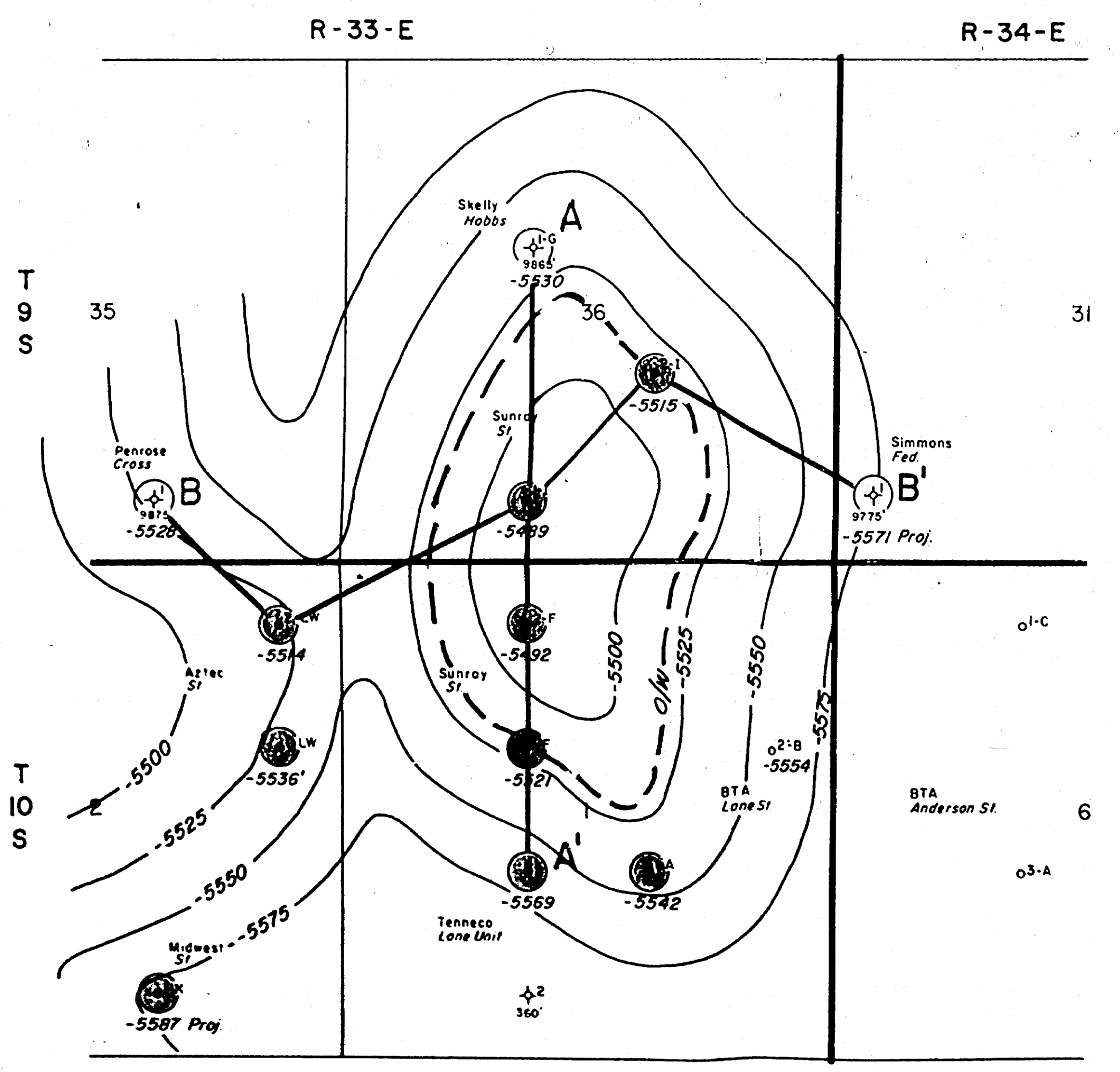
No DST - Perf 9790-9808, Ac/500 MA Swb dry Ac/1500, Swb LO & 35 BXW Completed as "C" producer P&A 1960

No DST in "F" zone, Perf 9802-9010, Ac/500 MA, IPF 280 BOPD, 1/4" ch, TP 580#, GOR 1700, Grav. 42.1 Dually completed from "C" and "F" zones 7-4-56

No DST - Perf 9796-9820 Ac/500 MA Swb LO & Ac wtr, Swb 16 BXWPH FL-2200', Completed from "C" P&A 1960

Not drilled to "F" zone

WEST - EAST CROSS - SECTION


R-33-E
R-34-E
T 9 S
T 10 S
35
36
31
6
2
Skelly Hobbs
1-G
9865'
-5530
A
A'
B
B'
Penrose Cross
9875'
-5528
Sunray St
-5515
-5489
Simmons Fed.
9775'
-5571 Proj.
LW
-5514
Aztec St
-5492
F
Sunray St
-5536'
-5521
1-C
2-B
-5554
BTA Lane St
BTA Anderson St.
3-A
-5569
-5542
Tenneco Lane Unit
Midwest St
-5587 Proj.
360'
-5500
-5525
-5550
-5575
O/W

CONTOURED ON BOUGH "F" FORMATION
(LANE PENN. FACTOR)
C.I. - 25' Scale - 1" = 1000'

=LEGEND=

○ San Andres
● Abo
● Bough "C"
◍ Bough "F"
◉ Strawn

CUMULATIVE PRODUCTION
LANE POOL
LEA COUNTY, NEW MEXICO

Section 36, T-9S, R-33E

Sunray No. 2 State "I"	
Bough "C" (Wolfcamp) P & A 1960	79,362 BO
Sunray No. 1 State "I"	
Bough "C" (Wolfcamp) P & A 1964	101,820 BO
Bough "F" (Pennsylvanian) P & A 1967	310,902 BO
1966 - 4102 BO plus 69,925 BW	
1967 - 1532 BO plus 8,950 BW - SI July 1967	
Avg. Prod/Mo. 1967 - 255 BO plus 1500 BW	

Section 1, T-10S, R-33E

Sunray No. 2 State "F"	
Bough "C" (Wolfcamp) P & A 1965	171,431 BO
Bough "F" (Pennsylvanian) P & A 1965	150,909 BO
Sunray No. 1 State "F"	
Bough "C" (Wolfcamp) Rec. to Penn.	245,528 BO
Bough "F" (Pennsylvanian) Rec. to Strawn	1,735 BO
Strawn P & A 1965	60,508 MCFG 2,345 BO
Cities Service No. 1 State A-Y	
Bough "C" (Wolfcamp) P & A 1960	39,707 BO
Tenneco No. 1 Lane Unit	
Bough "C" (Wolfcamp) P & A 1960	119,358 BO

Section 2, T-10S, R-33E

Aztec No. 2 State "LW"	
Bough "C" (Wolfcamp) P & A 1960	51,339 BO
Aztec No. 1 State "LW"	
Bough "C" (Wolfcamp) P & A 1960	148,395 BO

Section 11, T-10S, R-33E

Humble No. 1 State	
Bough "C" (Wolfcamp) P & A 1961	71,539 BO
(Recently re-entered and side-tracked for recompletion by Midwest)	

BEFORE EXAMINER NUTTER
OIL CONSERVATION COMMISSION
Applic. EXHIBIT NO. 17
CASE NO. 3705

MIDWEST OIL CORPORATION
MIDLAND, TEXAS

VADA & LANE AREAS
LEA COUNTY, NEW MEXICO

DATE: 12-18-67
BY: D. [illegible]