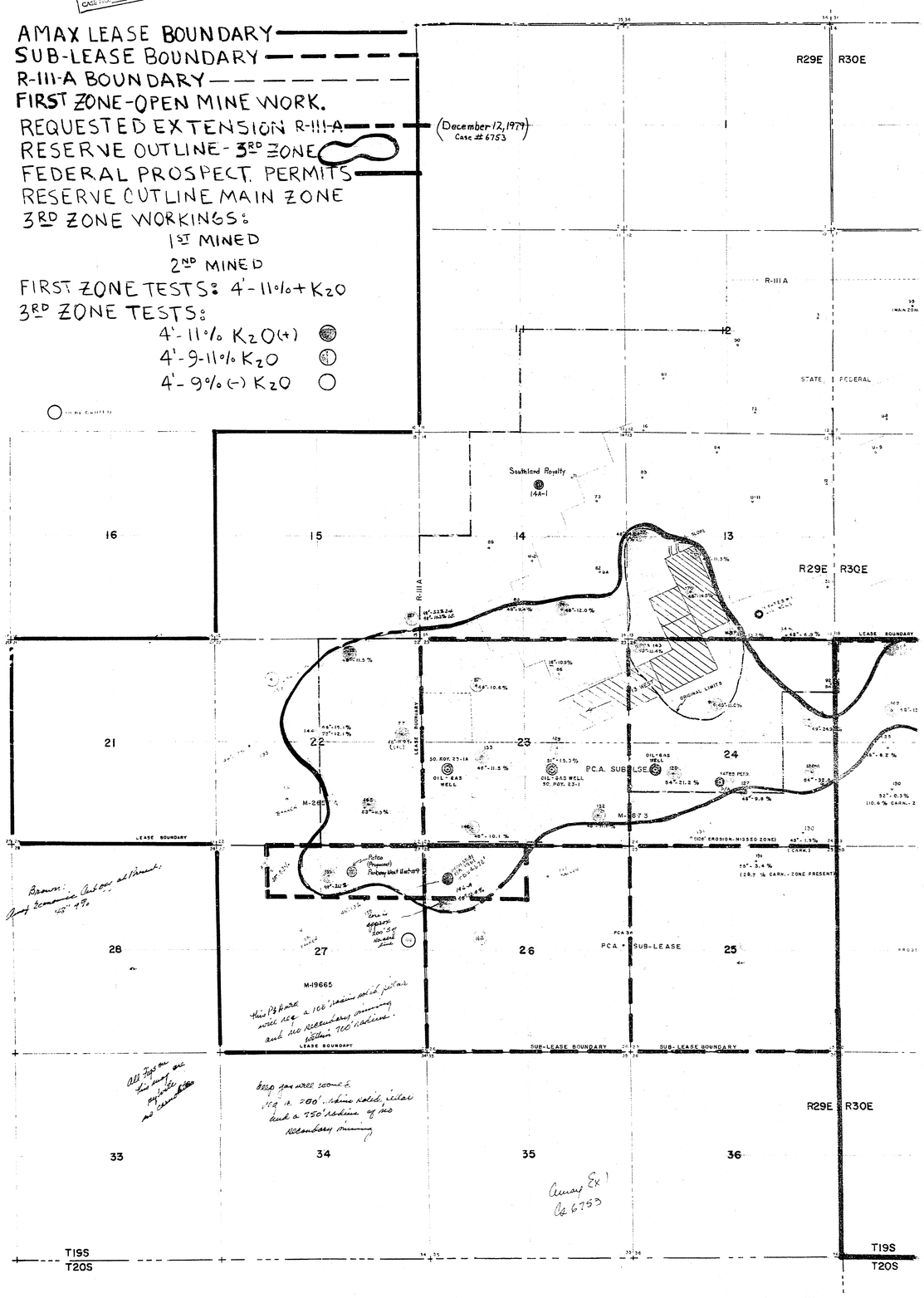
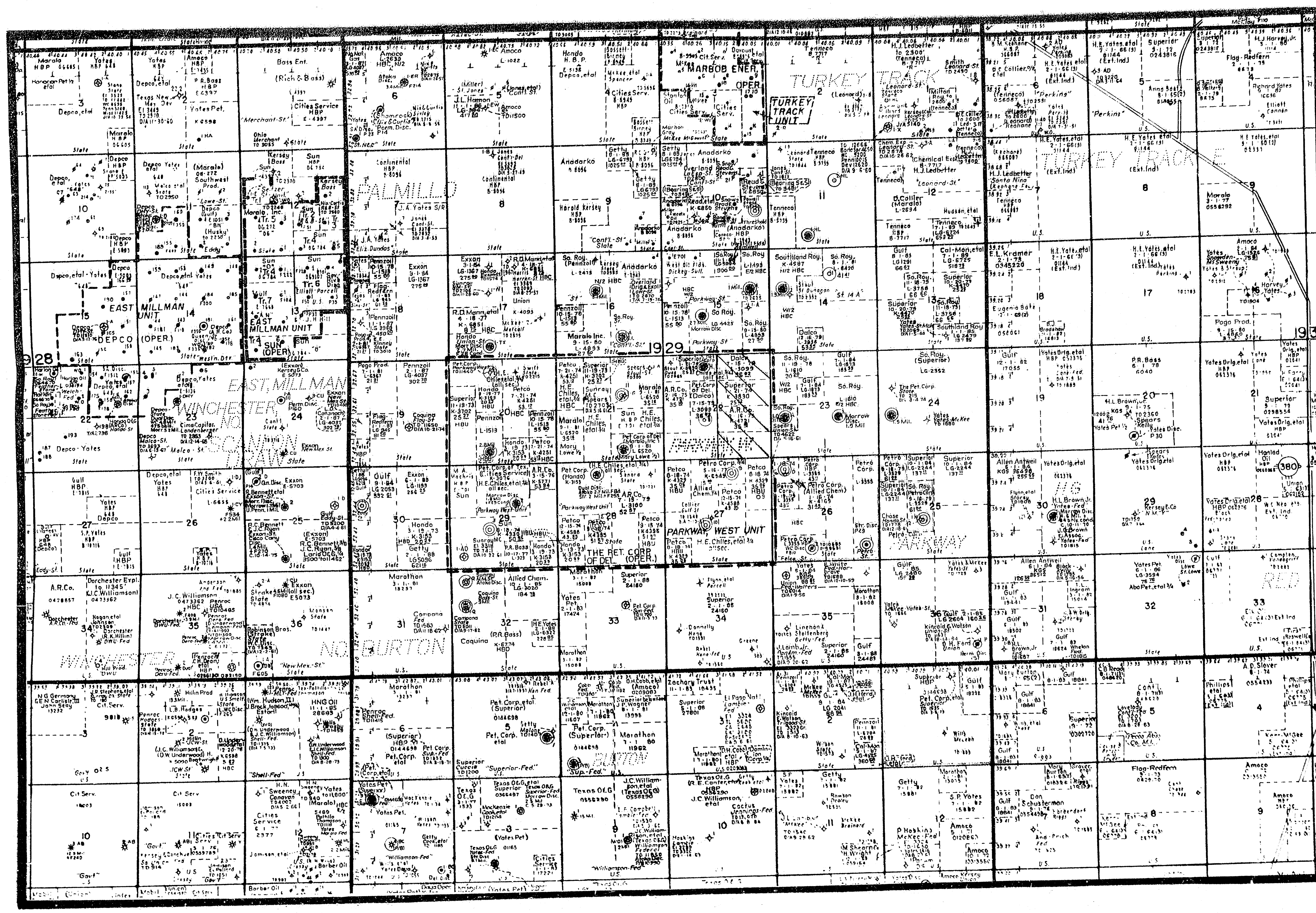
Case No.
6753

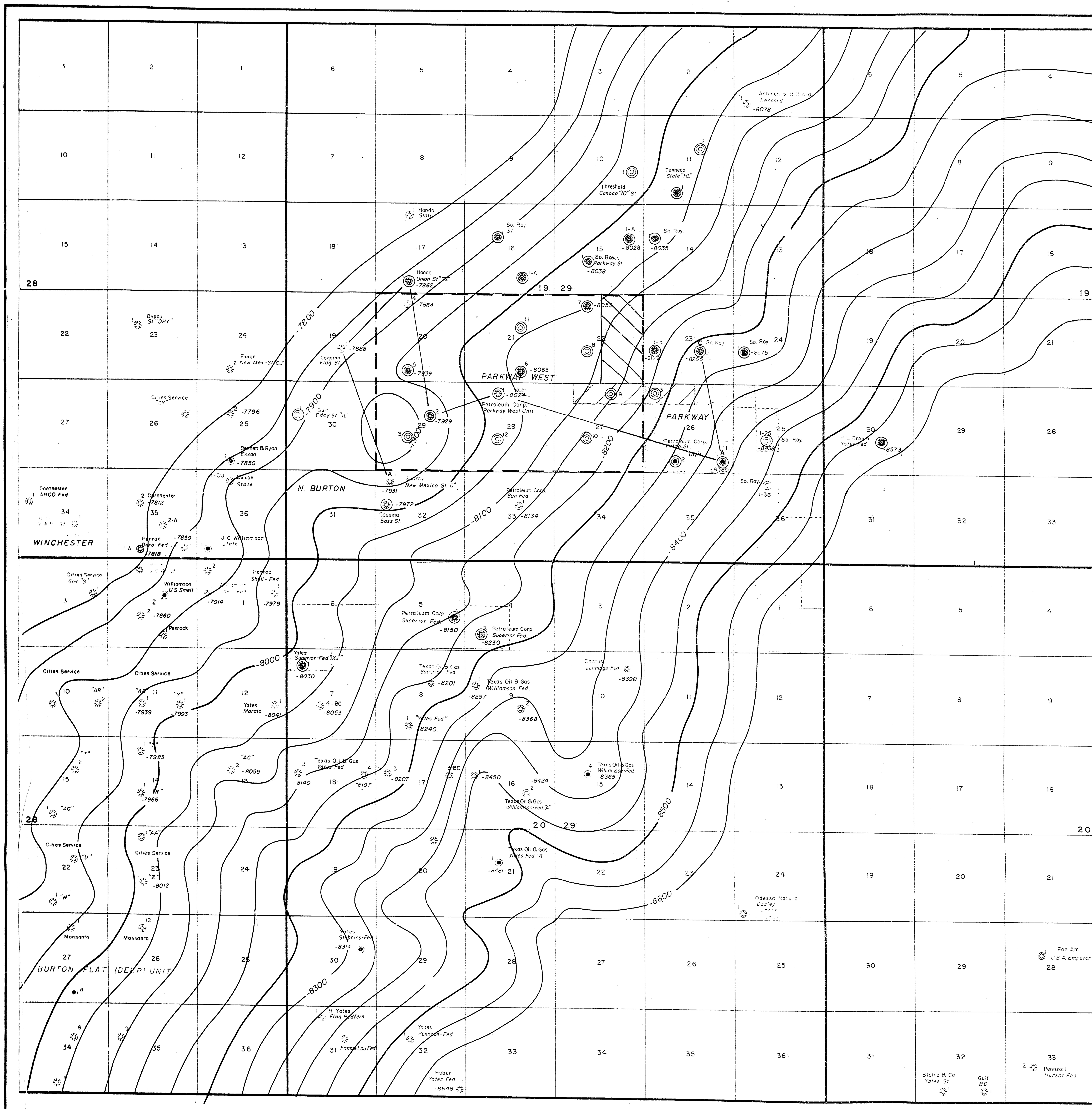
Large Exhibits

BEFORE EXAMINER NUTTER
OIL CONSERVATION DIVISION
Amax Exhibit No. 1
CASE NO. 6752

AMAX LEASE BOUNDARY
SUB-LEASE BOUNDARY
R-111-A BOUNDARY
FIRST ZONE-OPEN MINE WORK.
REQUESTED EXTENSION R-111-A (December 12, 1979 Case # 6753)
RESERVE OUTLINE - 3RD ZONE
FEDERAL PROSPECT PERMITS
RESERVE OUTLINE MAIN ZONE
3RD ZONE WORKINGS:
1ST MINED
2ND MINED
FIRST ZONE TESTS: 4'-11%+ K_2O
3RD ZONE TESTS:
4'-11% K_2O(+)
4'-9-11% K_2O
4'-9% (-) K_2O




TURKEY TRACK
TURKEY TRACK UNIT
MARBOB ENER. OPER.
PALMILLO
EAST MILLMAN UNIT
DEPCO (OPER)
EAST MILLMAN UNIT
SUN (OPER)
EAST MILLMAN
WINCHESTER, NO.
SCANLON DRAW
PARKWAY, WEST UNIT
THE PET. CORP. OF DEL. (OPER.)
PARKWAY
WINCHESTER
NO. BURTON
RED
19
29
28
19



THE PETROLEUM CORPORATION

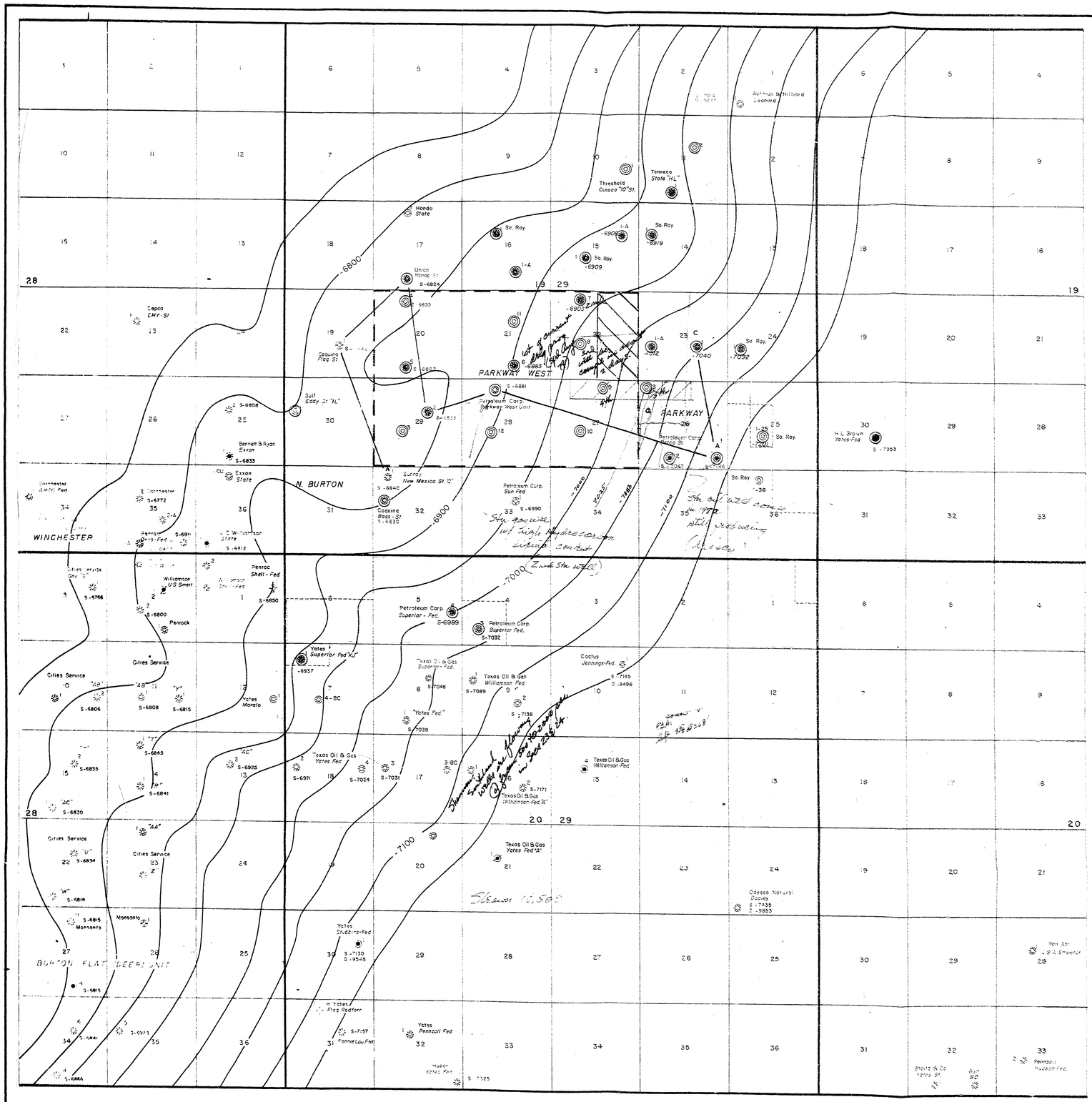
PARKWAY WEST UNIT AREA

EDDY COUNTY, NEW MEXICO

STRUCTURE MAP

CONTOURS: MORROW CONTOUR INTERVAL: 50'

SCALE: 1" = 2,000' DATE: DEC., 1979



THE PETROLEUM CORPORATION

PARKWAY WEST UNIT AREA

EDDY COUNTY, NEW MEXICO

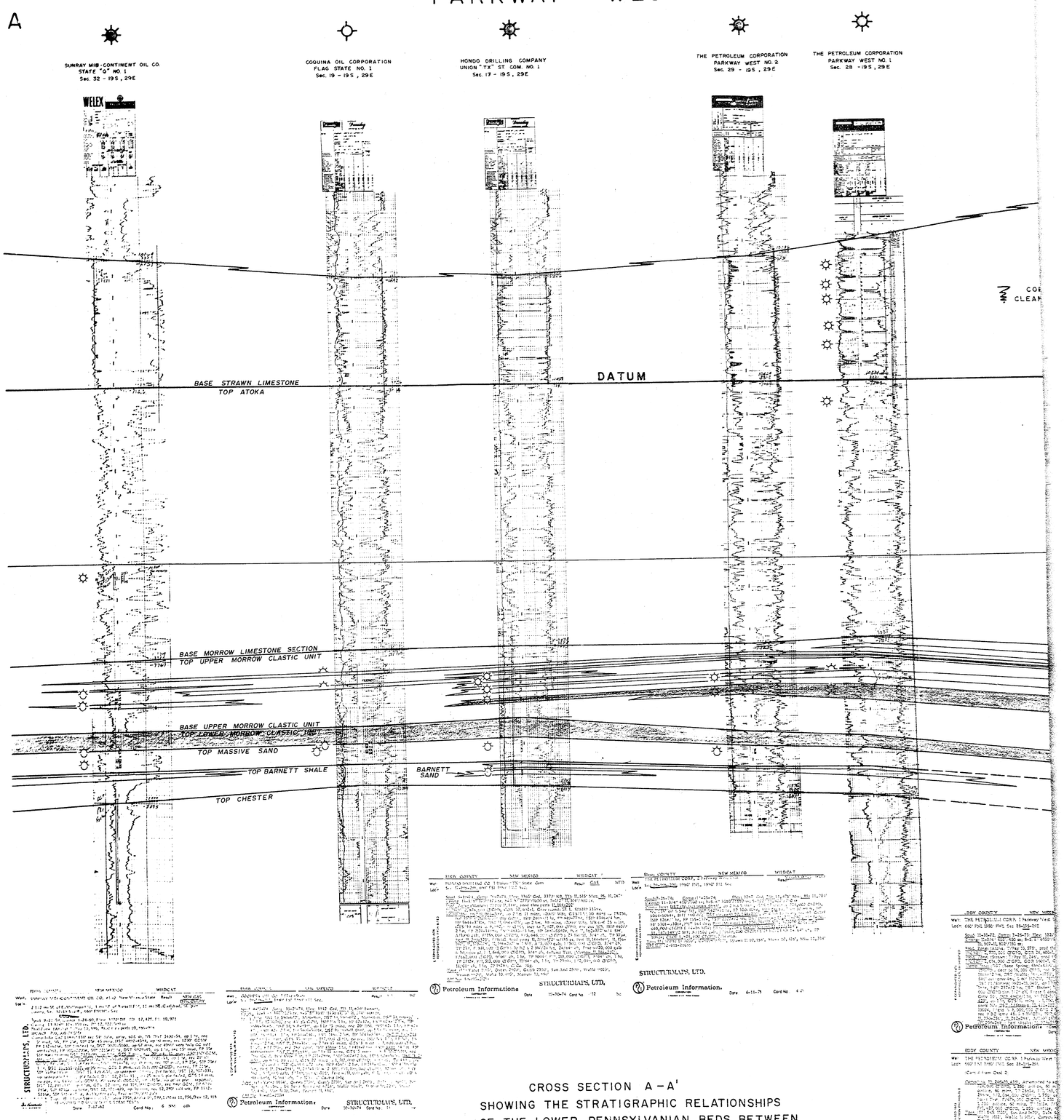
STRUCTURE MAP

CONTOURS DRAWN CONTOUR INTERVAL 50'

SCALE 1" = 2,000' DATE DEC., 1979

PARKWAY WEST UNIT

A



CROSS SECTION A-A'
SHOWING THE STRATIGRAPHIC RELATIONSHIPS
OF THE LOWER PENNSYLVANIAN BEDS BETWEEN
THE TOP OF THE STRAWN LIMESTONE AND THE
TOP OF THE MISSISSIPPIAN CHESTER FORMATION
ACROSS THE PARKWAY WEST UNIT
EDDY COUNTY, NEW MEXICO

MARTIN W. VERNON CPG NO. 1622
DATE: NOVEMBER 1975

FEET
0
50
75
100
VERTICAL SCALE:

HORIZONTAL SCALE:
EXAGGERATED

— LEGEND —

PERFORATED INTERVAL - GAS & CONDENSATE PRODUCTIVE

SHOW OF GAS

SHOW OF WATER

ARKWAY WEST UNIT

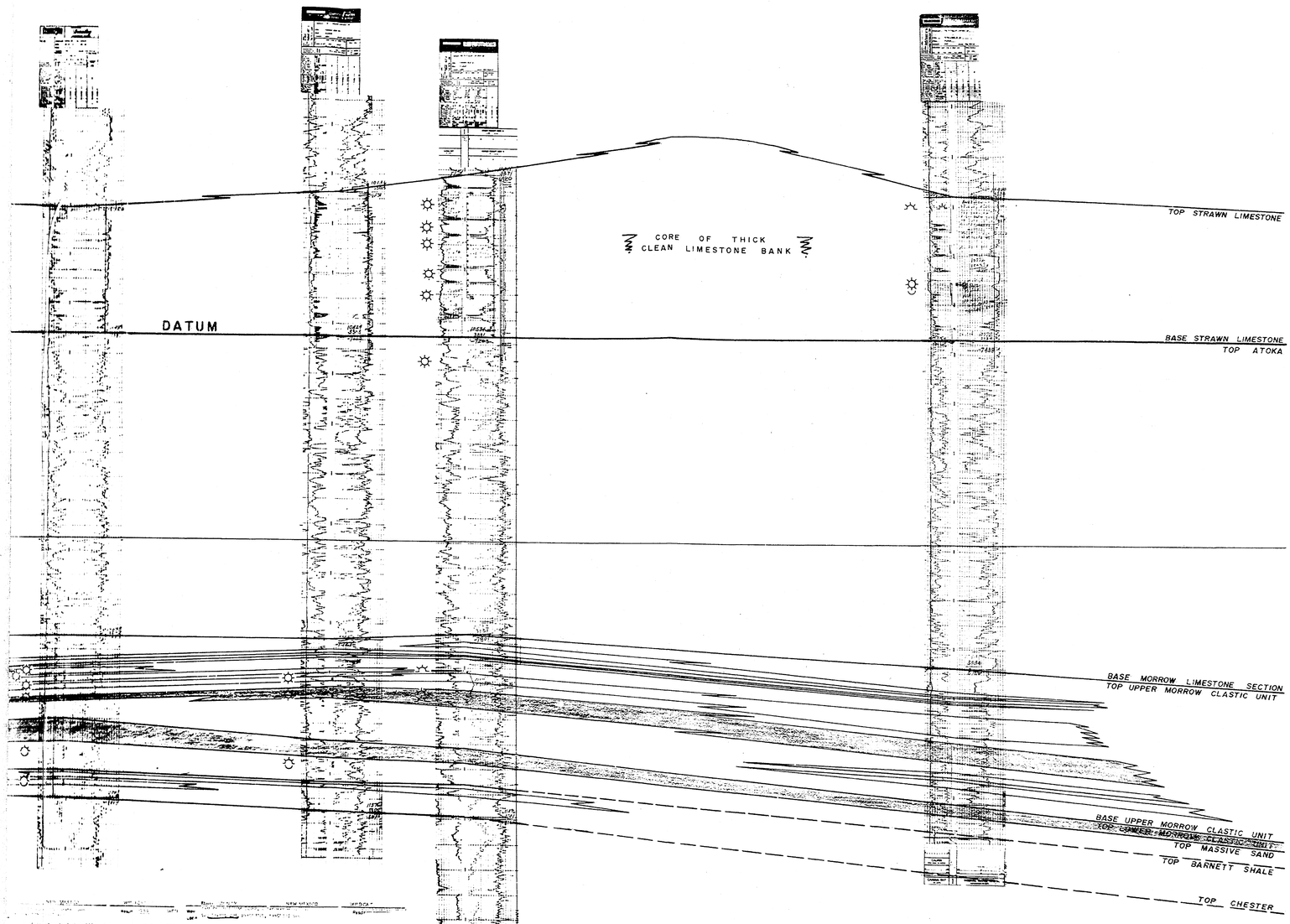
A'

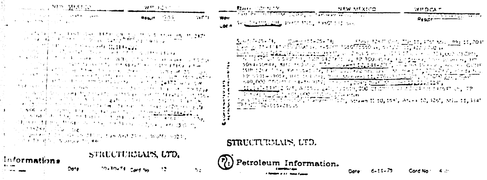
HONDO DRILLING COMPANY
UNION "TX" ST COM. NO. 1
Sec 17 - 19S, 29E

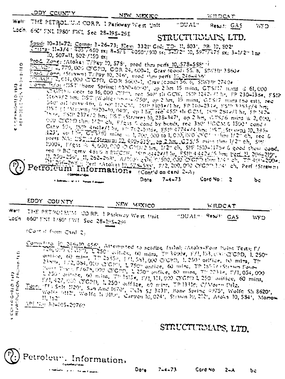
THE PETROLEUM CORPORATION
PARKWAY WEST NO. 2
Sec. 29 - 19S, 29E

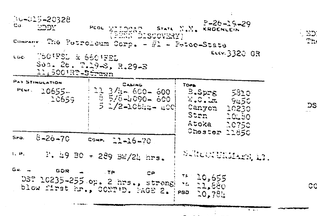
THE PETROLEUM CORPORATION
PARKWAY WEST NO. 1
Sec. 28 - 19S, 29E

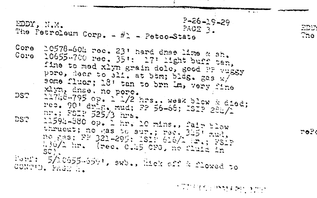
THE PETROLEUM CORPORATION
PETCO STATE NO. 1-26
Sec. 26 - 19S, 29E









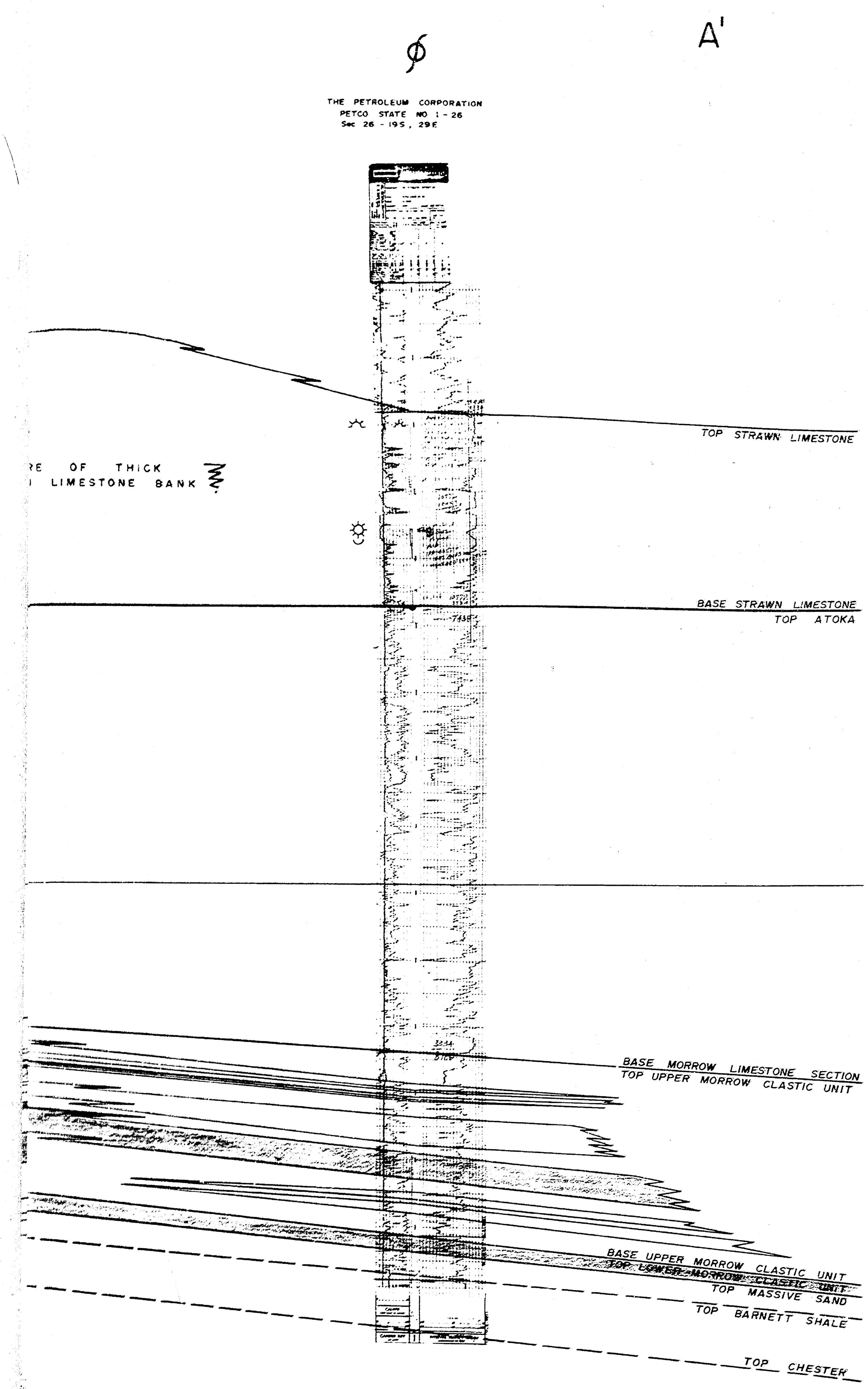


CROSS SECTION A-A'
SHOWING THE STRATIGRAPHIC RELATIONSHIPS
OF THE LOWER PENNSYLVANIAN BEDS BETWEEN
THE TOP OF THE STRAWN LIMESTONE AND THE
TOP OF THE MISSISSIPPIAN CHESTER FORMATION
ACROSS THE PARKWAY WEST UNIT
EDDY COUNTY, NEW MEXICO

MARTIN W. VERNON CPG NO. 1622
DATE: NOVEMBER 1975

— LEGEND —

- PERFORATED INTERVAL - GAS & CONDENSATE PRODUCTIVE
- SHOW OF GAS
- SHOW OF WATER



WILDCAT

STRUCTURMAPS, LTD.

[illegible]

WILDCAT

STRUCTURMAPS, LTD.

30-015-20328 P-26-19-29
Co EDDY Pool WILDCAT (PENN DISCOVERY) State N.M. KROENLEIN
Company The Petroleum Corp. - #1 - Petco-State
Elev. 3320 GR
Loc 760'FSL & 660'FEL
Sec. 26, T.19-S, R.29-E
11,500'RT-Strawn

Pay Stimulation	Casing	Tops	
Perf 10655-10659	11 3/4- 600- 600	B.Sprg	5810
	8 5/8-4090- 600	W.C.Lm	9450
	5 1/2-10844- 400	Canyon	10230
		Strn	10480
		Atoka	10750
		Chester	11850

Spd 8-26-70 Comp. 11-16-70

I.P. F. 49 BO + 289 BW/24 hrs.

Gr - GOR - TP CP

DST 10235-255 op. 2 hrs., strong blow first hr., CONT'D. PAGE 2.

STRUCTURMAPS, LTD.

TF 10,655
TD 11,880
PBD 10,784

EDDY, N.M. P-26-19-29
PAGE 2.
The Petroleum Corp. - #1 - Petco-State

gas to sur. in 30 mins. at 230,000 CFGPD; F. 230,000 CFGPD second hr., 5/8" ch.; rec. 588' oil (Gr. 46.); 643' gas cut WB, 30' gas cut mud; FP 241-503; ISIP 5252/1 hr.; FSIP 5214/210 mins. (rec. 1 CFG & 460 cc's oil in SC, no wtr., 500# psi).

DST 10480-552, two 1 hr. flows, good blow, gas to sur. in 11 mins.; flowed gas at 220,000 CFGPD & decr to 160,000 CFGPD in first hr., 1/2" ch.; SFP 20-11#; flowed gas second hr. at rate of 160,000 CFGPD & decr to 85,000 CFGPD, 1/2" ch., SFP 11-5#; rec. 4' oil (Gr. 46.6), 600' hvy. oil & gas cut mud; FP 141-167; ISIP 4309/2 hrs.; FSIP 3347/4 hrs. (rec. .7 CFG + 550 cc's oil in SC, GOR 200/1).

CONT'D. PAGE 3.

EDDY, N.M. P-26-19-29
PAGE 3.
The Petroleum Corp. - #1 - Petco-State

Core 10578-604 rec. 23' hard dnse lime & sh.
Core 10655-700 rec. 35': 17' light buff tan, fine to med xlyn grain dolo, good PP vuggy poro, decr to sli. at btm; bldg. gas w/ some fluor; 18' tan to brn lm, very fine xlyn, dnse. no poro.
DST 11748-795 op. 1 1/2 hrs., weak blow & died; rec. 90' drlg. mud; FP 56-68; ISIP 284/1 hr.; FSIP 325/3 hrs.
DST 11594-880 op. 1 hr. 10 mins., fair blow [illegible]; no gas to sur.; rec. 315' mud, no [illegible]; FP 321-205; ISIP [illegible]/1 hr.; FSIP [illegible]/2 hr. (rec. 0.25 CFG, no fluid in [illegible]
[illegible] 10655-659', swb., kick off & flowed to [illegible]

EDDY, N.M. P-26-19-29
PAGE 4.
The Petroleum Corp. - #1 - Petco-State

to pits 3 hrs., TP 0-500#; gas at 1,500,000 CFGPD w/spray of wtr. and show of oil; flowed to pits 8 1/2 hrs., TP 340#; 24/64" ch.; gas vol. at rate of 320,000 CFGPD, 24/64" ch., TP 310#; F. 27 [illegible] + 2[illegible] bbls. SW/[illegible] hrs., gas vol. at [illegible],000 CFGPD & decr to 290,000 CFGPD; F. [illegible] + 375 BSW/22 hrs., 3/4" ch., gas at [illegible],000 CFGPD to 100,000 CFGPD; 200 gal. acid/ 10655-659', sqz. perfs w/100 sx.
rePerf: 10655-659', 250 gal. acid; [illegible]

[illegible] MICROGRAPHICS
BEST AVAILABLE COPY

Dresser Atlas
DRESSER

Combination Logging Systems

Dual Laterolog
Micro Laterolog

R

FILE NO.

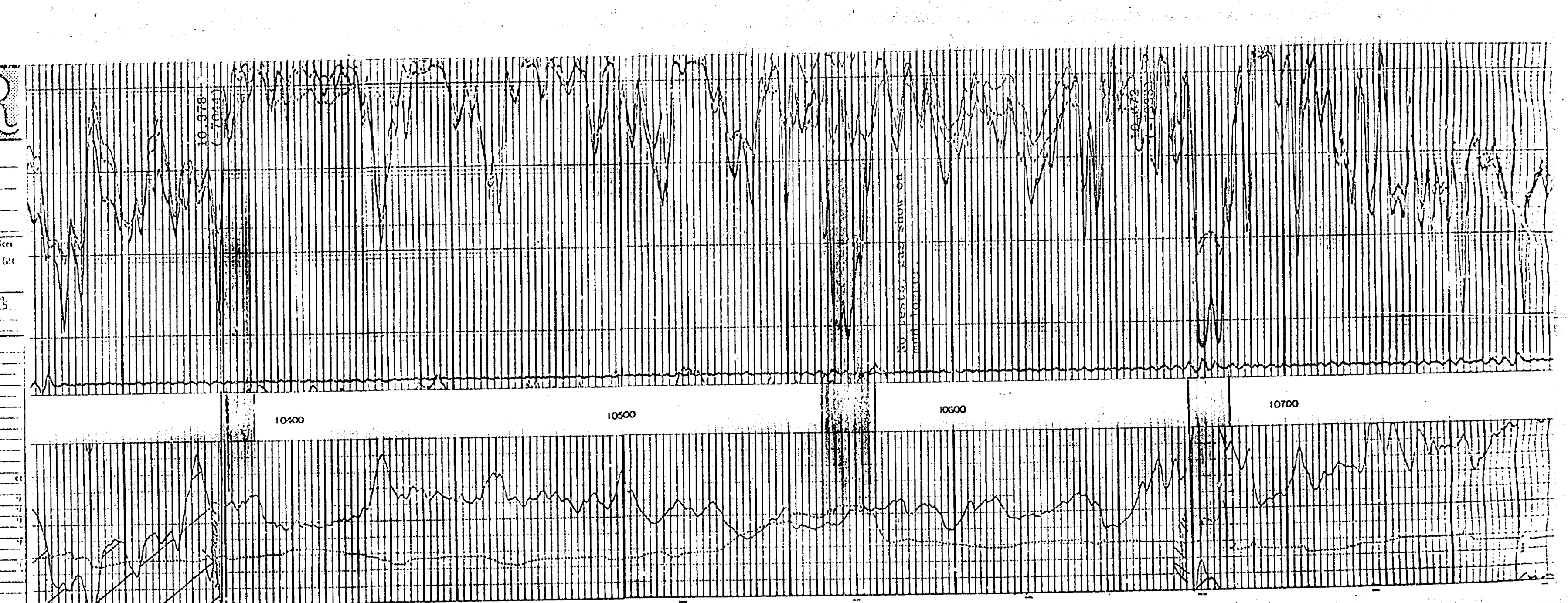
COMPANY SOUTHLAND ROYALTY COMPANY
WELL STATE COMM. 23-1
FIELD UNDESIGNATED (MORROW)
COUNTY EDDY STATE NEW MEXICO
LOCATION: 1980' FSL & 1980' FEL
SEC. 23 TWP. 19-S RGE. 29-E

Other Services: CN/CDL/GR DIPLOG

Permanent Datum GROUND LEVEL Elev. 3319
Log Measured from K.B. 15.5 Ft. Above Permanent Datum
Drilling Measured from K.B.

Elevations: KB 3334.5 DF GL 3319

Date	11-4-78			
Run No.	ONE			
Service Order	26127			
Depth—Driller	11,795			
Depth—Logger	11,781			
Bottom Logged Interval	11,778			
Top Logged Interval	3000			
Casing—Driller	8 5/8" @ 3000	@	@	@
Casing—Logger	2998			
Bit Size	7 7/8			
Type Fluid in Hole	NON-PAC			
Density and Viscosity	9.9 | 32			
pH and Fluid Loss	9.5 | 12.0 cc	cc	cc	cc
Source of Sample	PIT			
Rm @ Meas. Temp.	.077 @ 64 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.059 @ 64 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	– @ °F	@ °F	@ °F	@ °F
Source of Rmf and Rmc	MEAS. | –			
Rm @ BHT	.027 @ 180 °F	@ °F	@ °F	@ °F
Time Since Circ.	12 HOURS			
Max. Rec. Temp. Deg. F	180 °F	°F	°F	°F
Equip. No. and Location	6124 | HOBBS			
Recorded By	CLEMENTS			
Witnessed By	WALTHALL			



SCHLUMBERGER

FIELD or LOCATION WILDCAT
WELL PETCO STATE 1-26
COMPANY THE PETROLEUM CORP.

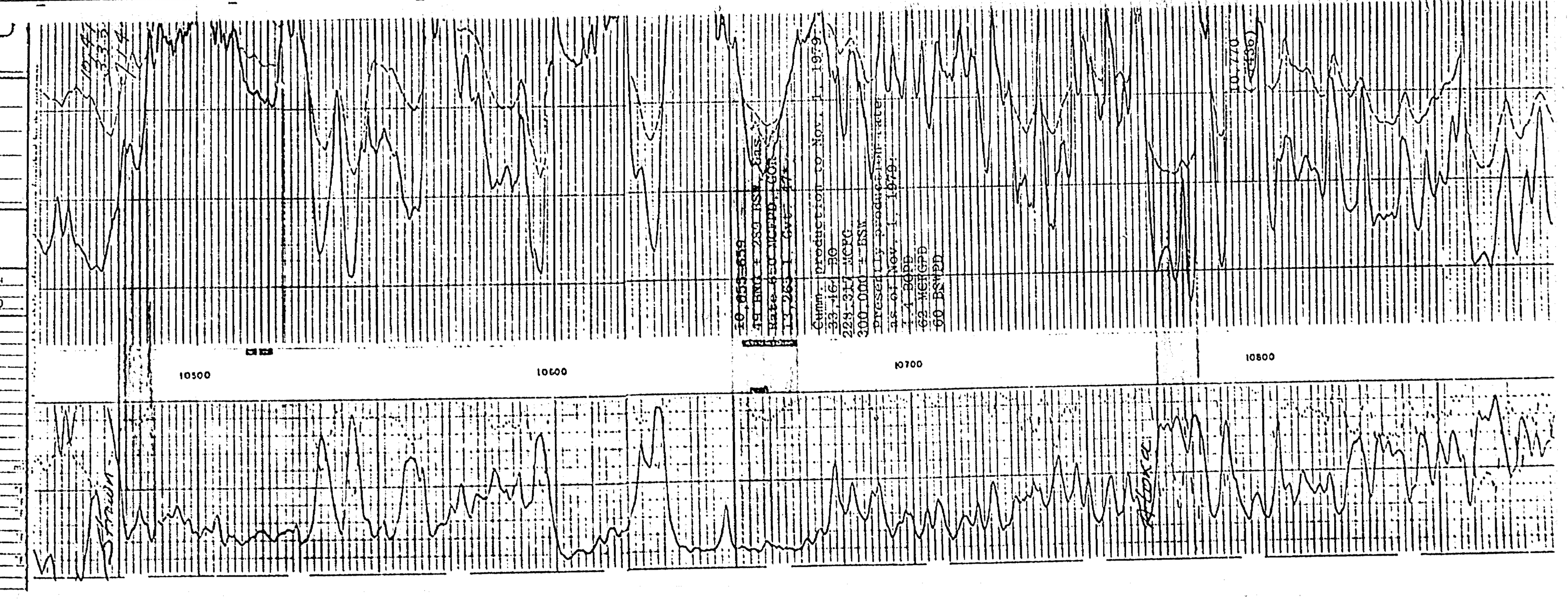
COMPANY THE PETROLEUM CORPORATION
WELL PETCO STATE #1-26 *Petco Ex 5 (Co 6753)*
FIELD WILDCAT
COUNTY EDDY STATE NEW MEXICO
LOCATION 660' FEL & 760' FSL
Sec. 26 Twp. 19-S Rge. 29-E

Other Services: BHC, DIL, ML

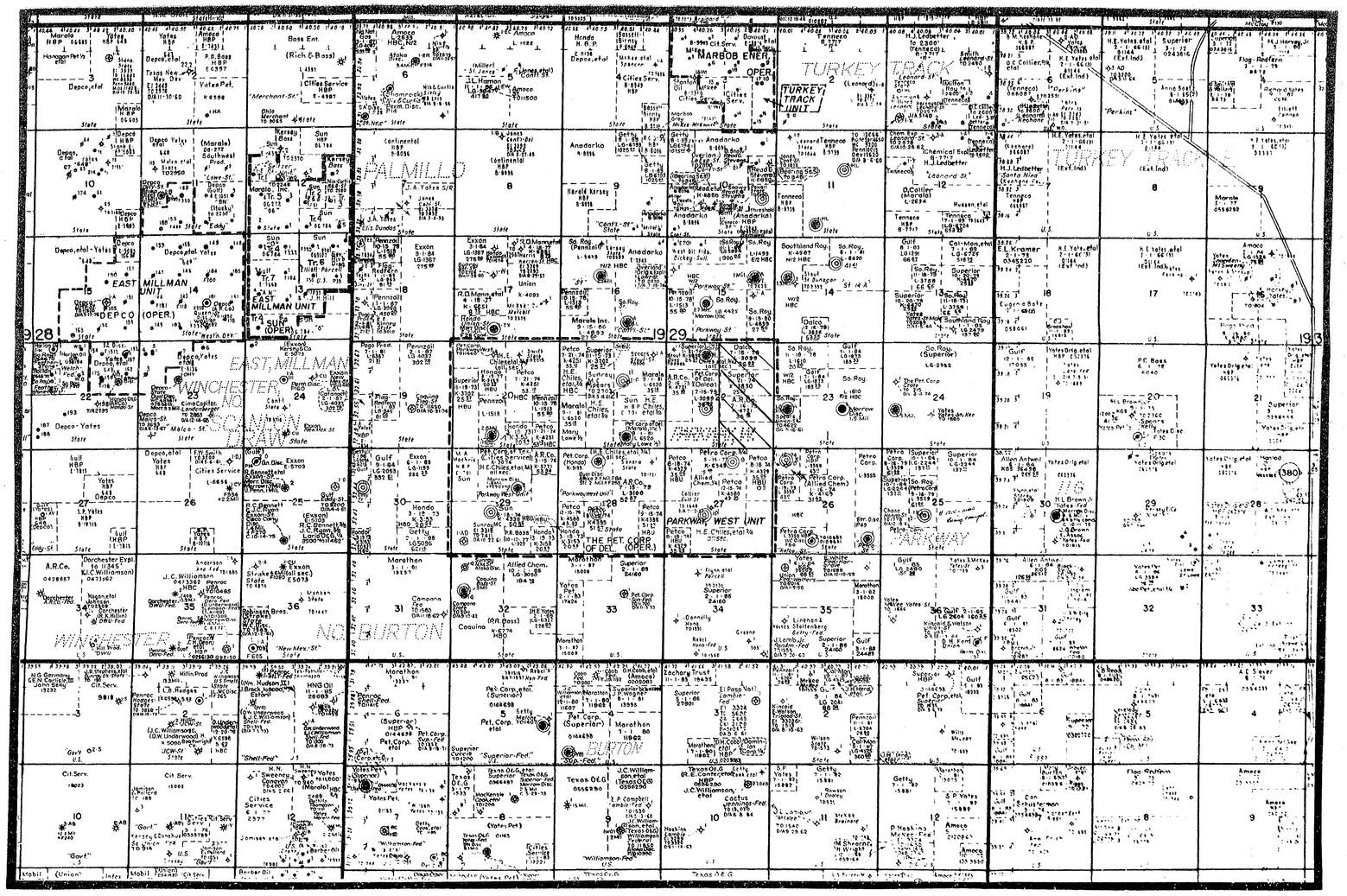
Permanent Datum G.L. Elev. 3320
Log Measured From K.B. 13.6 Ft. Above Perm. Datum
Drilling Measured From K.B.

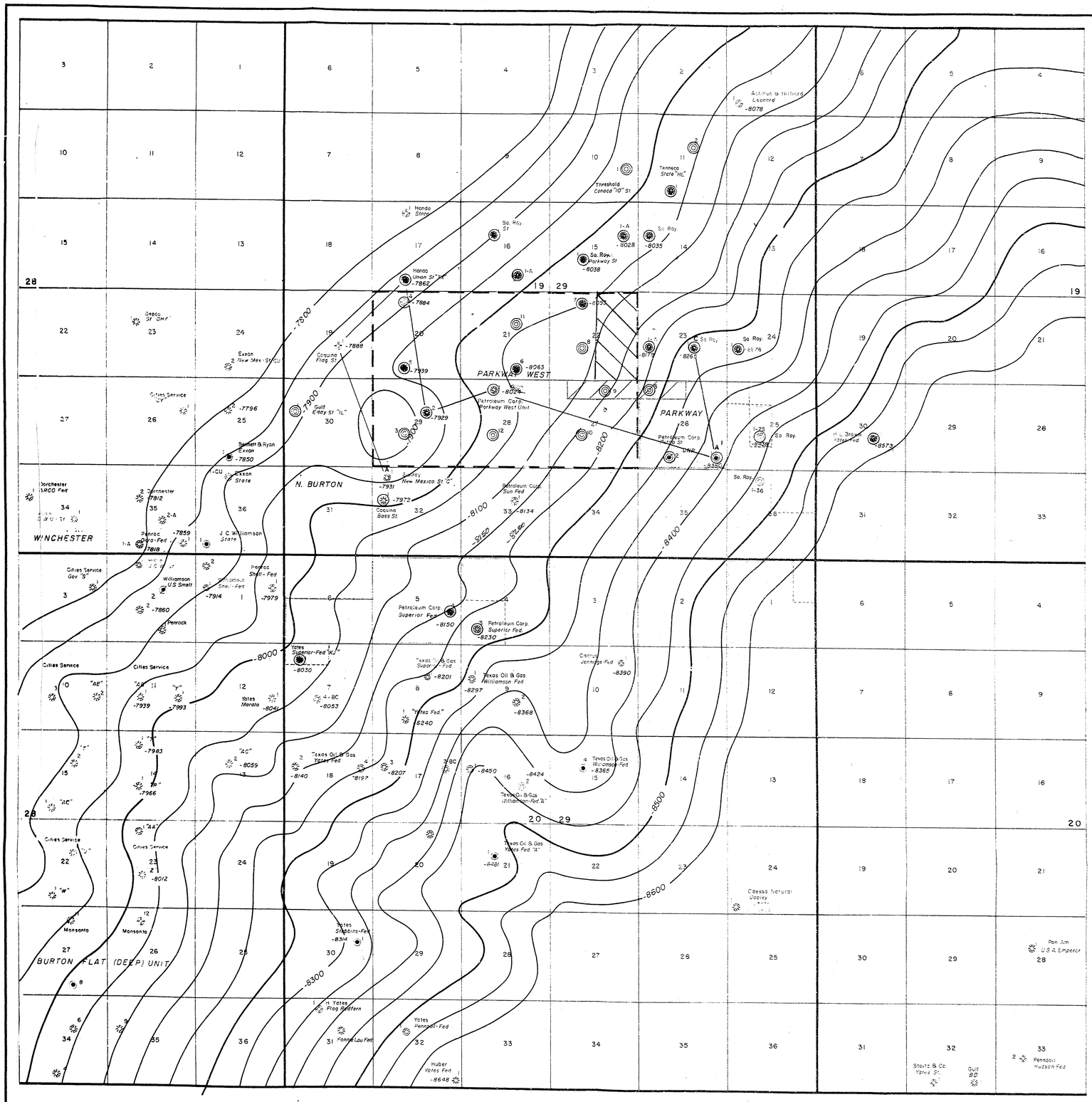
Elev.: K.B. 3334 D.F. G.L. 3320

Date	10-15-73			
Run No.	ONE			
Depth—Driller	11330			
Depth—Logger	11292			
Btm. Log Interval	11290			
Top Log Interval	9980			
Casing—Driller	[illegible]	@	@	@
Casing—Logger				
Bit Size	7 7/8			
Type Fluid in Hole	[illegible] GEL			
Dens. | Visc.	9.6 | 39			
pH | Fluid Loss	[illegible] | 13.4 ml	ml	ml	ml
Source of Sample	[illegible]			
Rm @ Meas. Temp.	1.31 @ 73 °F	@ °F	@ °F	@ °F
Rmf @ Meas. Temp.	.75 @ 75 °F	@ °F	@ °F	@ °F
Rmc @ Meas. Temp.	.83 @ 70 °F	@ °F	@ °F	@ °F
Source: Rmf | Rmc	[illegible] | C			
Rm @ BHT	[illegible] @ 170 °F	@ °F	@ °F	@ °F
Time Since Circ.	[illegible] HOURS			
Max. Rec. Temp.	[illegible] °F	°F	°F	°F
Equip. | Location	[illegible] | HOBBS			
Recorded By	[illegible]			



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


TURKEY TRACK UNIT
MARBOB ENER. OPER.
TURKEY TRACK
EAST MILLMAN UNIT
DEPCO (OPER.)
EAST MILLMAN
WINCHESTER
PALMILL
BURTON
PARKWAY WEST UNIT
THE PET. CORP. OF DEL. (OPER.)
PARKWAY



Rich well Morrow

THE PETROLEUM CORPORATION

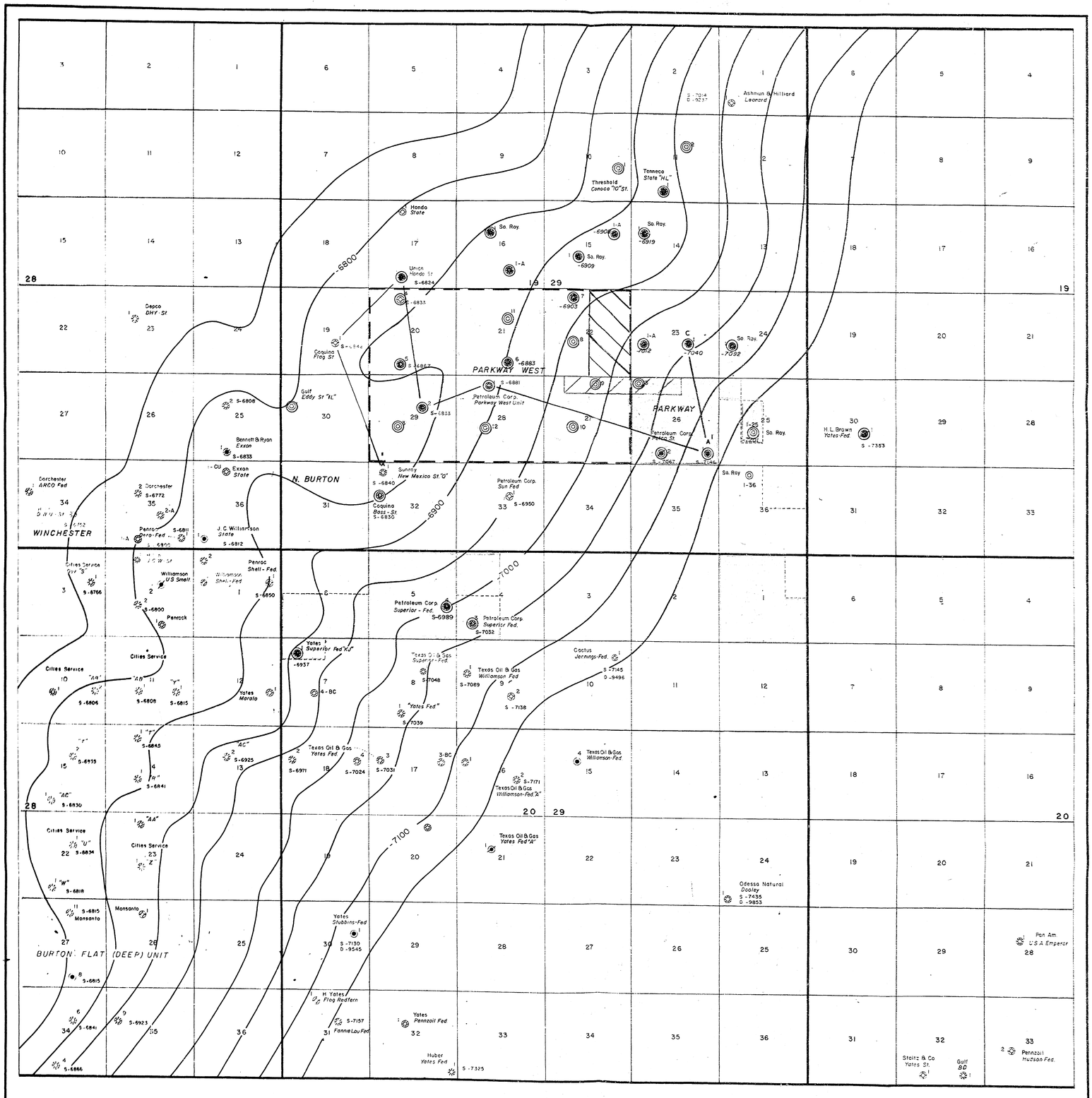
PARKWAY WEST UNIT AREA

EDDY COUNTY, NEW MEXICO

STRUCTURE MAP

CONTOURS MORROW CONTOUR INTERVAL: 50'

SCALE 1" = 2,000' DATE DEC., 1979



THE PETROLEUM CORPORATION

PARKWAY WEST UNIT AREA

EDDY COUNTY, NEW MEXICO

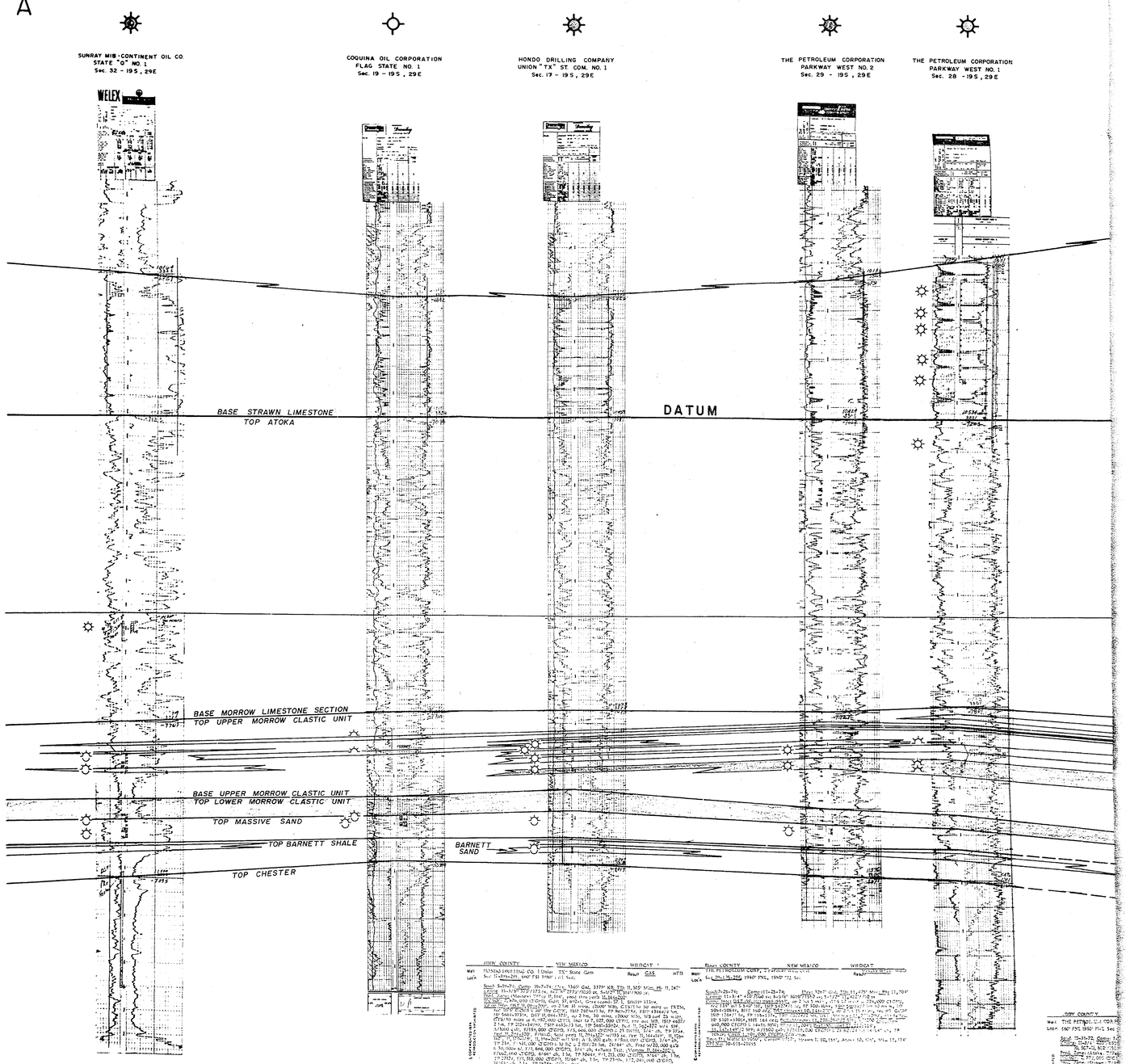
STRUCTURE MAP

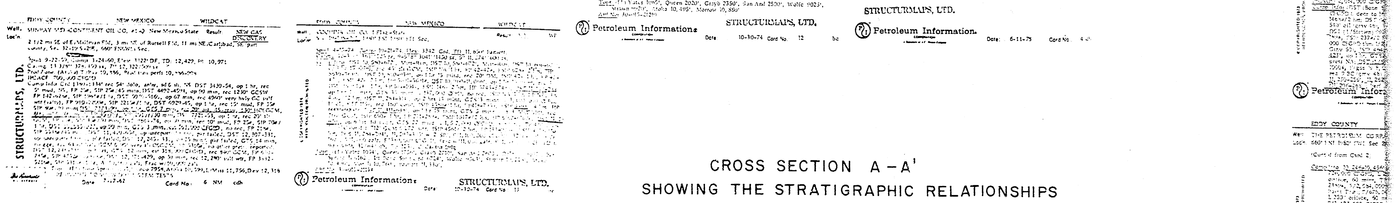
CONTOURS: STRAWN CONTOUR INTERVAL: 50'

SCALE: 1" = 2,000' DATE: DEC., 1979

PARKWAY WEST UNIT

A





CROSS SECTION A - A'
SHOWING THE STRATIGRAPHIC RELATIONSHIPS
OF THE LOWER PENNSYLVANIAN BEDS BETWEEN
THE TOP OF THE STRAWN LIMESTONE AND THE
TOP OF THE MISSISSIPPIAN CHESTER FORMATION
ACROSS THE PARKWAY WEST UNIT
EDDY COUNTY, NEW MEXICO

MARTIN W. VERNON CPG NO. 1622
DATE: NOVEMBER 1975

FEET
0
50
75
100

VERTICAL SCALE:

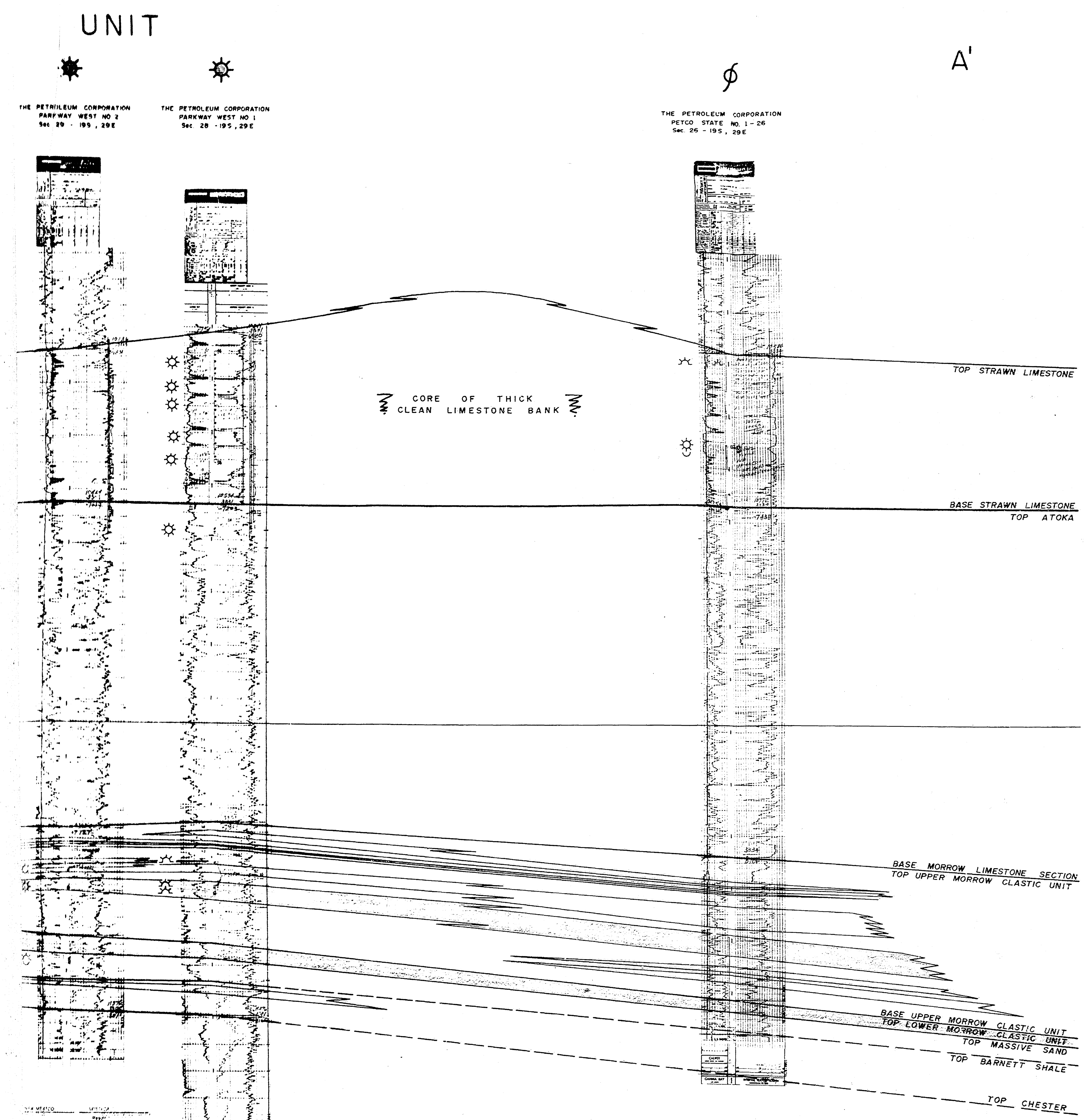
HORIZONTAL SCALE:
EXAGGERATED

— LEGEND —

PERFORATED INTERVAL - GAS & CONDENSATE PRODUCTIVE

SHOW OF GAS

SHOW OF WATER



EDDY COUNTY — NEW MEXICO — WILDCAT — Result GAS

STRUCTURMAPS, LTD.

Petroleum Information

30-015-20328
Co EDDY
Pool WILDCAT (PENN DISCOVERY)
State N.M.
P-26-19-29
KROENLEIN
Company The Petroleum Corp. - #1 - Petco-State
Loc. 760'FSL & 660'FEL, Sec. 26, T.19-S, R.29-E
11,500'RT-Strawn
Elev. 3320 GR

Pay Stimulation	Casing	Tops	
Perf. 10655-10659	11 3/4- 600- 600	B.Sprg	5810
	8 5/8-4090- 600	W.C.lm	9450
	5 1/2-10644- 400	Canyon	10230
		Strn	10480
		Atoka	10750
		Chester	11850

Spd 8-26-70 Comp. 11-16-70
I.P. P. 49 BO + 289 BW/24 hrs.
Gr - GOR - TP CP
DST 10235-255 op. 2 hrs., strong blow first hr., CONT'D. PAGE 2.
TF 10,655
TD 11,880
PBD 10,784

STRUCTURMAPS, LTD.

EDDY, N.M. P-26-19-29 PAGE 2.
The Petroleum Corp. - #1 - Petco-State

gas to sur. in 30 mins. at 230,000 CFGPD; F. 230,000 CFGPD second hr., 5/8" ch.; rec. 588' oil (Gr. 46.); 643' gas cut WB, 30' gas cut mud; FP 241-503; ISIP 5252/1 hr.; FSIP 5214/210 mins. (rec. 1 CFG & 460 cc's oil in SC, no wtr., 500# psi).
DST 10480-552, two 1 hr. flows, good blow, gas to sur. in 11 mins.; flowed gas at 220,000 CFGPD & decr to 160,000 CFGPD in first hr., 1/2" ch.; SFP 20-11#; flowed gas second hr. at rate of 160,000 CFGPD & decr to 85,000 CFGPD, 1/2" ch., SFP 11-5#; rec. 4' oil (Gr. 46.6), 600' hvy. oil & gas cut mud; FP 141-167; ISIP 4309/2 hrs.; FSIP 3347/4 hrs. (rec. .7 CFG + 550 cc's oil in SC, GOR 200/1).
CONT'D. PAGE 3.

EDDY, N.M. P-26-19-29 PAGE 3.
The Petroleum Corp. - #1 - Petco-State

Core 10578-604 rec. 23' hard dnse lime & sh.
Core 10655-700 rec. 35': 17' light buff tan, fine to med xlyn grain dolo, good PP vuggy poro, decr to sli. at btm; bldg. gas w/ some fluor; 18' tan to brn lm, very fine xlyn, dnse. no poro.
DST 11746-795 op. 1 1/2 hrs., weak blow & died; rec. 90' drlg. mud; FP 56-68; ISIP 284/1 hr.; FSIP 525/3 hrs.
DST 11594-680 op. 1 hr. 10 mins., fair blow thruout; no gas to sur.; rec. 345' mud, no gas; FP 321-295; ISIP 616/1 hr.; FSIP 436/1 hr. (rec. 0.45 CFG, no fluid in SC).
Perf: 5/10655-659', swb., kick off & flowed to CONT'D. PAGE 4.

EDDY, N.M. P-26-19-29 PAGE 4.
The Petroleum Corp. - #1 - Petco-State

to pits 3 hrs., TP 0-500#; gas at 1,500,000 CFGPD w/spray of wtr. and show of oil; flowed to pits 8 1/2 hrs., TP 310#; 24/64" ch.; gas vol. at rate of 320,000 CFGPD, 24/64" ch.. TP 310#; F. 27 BNO + 285 bbls. SW/14 hrs., gas vol. at 300,000 CFGPD & decr to 290,000 CFGPD; F. 34 BNO + 375 BSW/22 hrs., 3/4" ch., gas at 300,000 CFGPD to 100,000 CFGPD; 200 gal. acid/ 10655-659', sqz. perfs w/100 sx.
rePerf: 10655-659', 250 gal. acid; flow 25 BNO + 199 bbls. SW/9 hrs., gas at 220,000 CF to 450,000 CFGPD; F. 34 BNO + 309 BSW 24 hrs.; F. 45 BNO + 306 BSW/24 hrs., gas at rate of 600,000 CFGPD. F. 49 BO + 289 BW, gas at 650,000 CFGPD/24 hrs. on pot'l.

IONSHIPS
S BETWEEN
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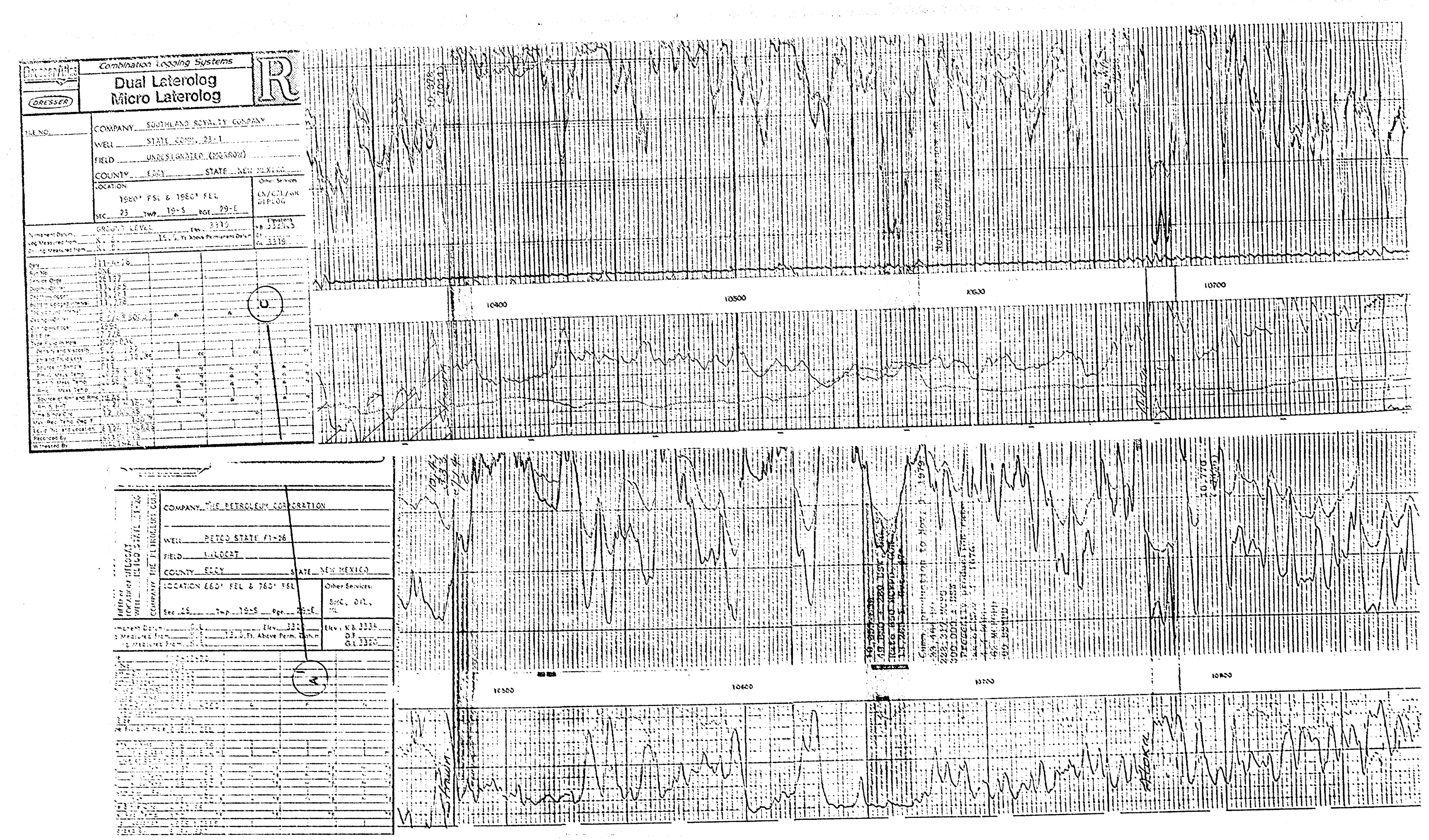
ONDENSATE PRODUCTIVE



Combination Logging Systems
Dual Laterolog
Micro Laterolog
DRESSER
COMPANY SOUTHLAND ROYALTY COMPANY
WELL STATE COMM. 23-1
FIELD UNDESIGNATED (MORROW)
COUNTY EDDY STATE NEW MEXICO
LOCATION: 1980' FSL & 1980' FEL
SEC 23 TWP 19-S RGE 29-E
Other Services CN/CDL/GR DIPLOG
GROUND LEVEL
Recorded By
Witnessed By
COMPANY THE PETROLEUM CORPORATION
WELL PETCO STATE #1-26
FIELD WILDCAT
COUNTY EDDY STATE NEW MEXICO
LOCATION 660' FEL & 760' FSL
Other Services: BHC, DIL, ML
10400
10500
10600
10700
10300
10400
10700
10800

THE PETROLEUM CORPORATION OF DELAWARE
FAIRWAY WEST POOL
EDDY COUNTY, NEW MEXICO
MONTHLY PRODUCTION STATISTICS

A Qu. 6733 6

Line No.	Month/Year	(1) Petco-State Corporation No. 1 Well (Strawn) Monthly Oil Production (Bbls./Month)	(2) Monthly Gas Production (MCF/Month)
(1)	December 1970	1,811	-
	1971		
(2)	January	813	-
(3)	February	631	-
(4)	March	595	-
(5)	April	606	-
(6)	May	476	-
(7)	June	561	-
(8)	July	976	-
(9)	August	31	-
(10)	September	57	-
(11)	October	97	8,099
(12)	November	512	8,610
(13)	December	711	12,729
(18)	Total 1971	5,925	
	1972		
(19)	January	711	11,510
(16)	February	529	8,720
(17)	March	863	8,316
(18)	April	808	6,900
(19)	May	875	4,800
(20)	June	488	4,800
(21)	July	874	4,810
(22)	August	267	4,226
(23)	September	329	3,797
(24)	October	276	3,160
(25)	November	288	2,930
(26)	December	272	2,970
(27)	Total 1972	5,982	66,819
	1973		
(28)	January	302	2,650
(29)	February	113	826
(30)	March	319	2,598
(31)	April	256	2,113
(32)	May	267	2,759
(33)	June	350	2,800
(34)	July	229	2,063
(35)	August	280	2,178
(36)	September	219	1,812
(37)	October	291	2,176
(38)	November	288	2,051
(39)	December	235	168
(40)	Total 1973	3,089	23,790
	1974		
(41)	January	292	1,574
(42)	February	315	1,258
(43)	March	364	1,587
(44)	April	316	3,276
(45)	May	305	3,978
(46)	June	379	4,275
(47)	July	386	885
(48)	August	409	2,006
(49)	September	503	4,706
(50)	October	659	4,830
(51)	November	182	1,128
(52)	December	371	2,350
(53)	Total 1974	4,681	31,393
	1975		
(54)	January	217	1,715
(55)	February	213	2,137
(56)	March	300	3,100
(57)	April	109	2,323
(58)	May	308	293
(59)	June	365	319
(60)	July	388	2,217
(61)	August	360	4,104
(62)	September	398	4,208
(63)	October	497	4,507
(64)	November	353	4,183
(65)	December	381	1,531
(66)	Total 1975	3,890	30,637
	1976		
(67)	January	457	3,806
(68)	February	127	1,883
(69)	March	567	3,518
(70)	April	127	2,703
(71)	May	339	2,860
(72)	June	263	1,576
(73)	July	211	1,140
(74)	August	505	-
(75)	September	231	-
(76)	October	232	-
(77)	November	199	-
(78)	December	189	-
(79)	Total 1976	3,287	16,766
	1977		
(80)	January	331	-
(81)	February	277	-
(82)	March	257	1,837
(83)	April	278	2,291
(84)	May	296	2,068
(85)	June	188	1,658
(86)	July	100	841
(87)	August	295	1,086
(88)	September	31	533
(89)	October	257	1,766
(90)	November	360	3,615
(91)	December	297	1,817
(92)	Total 1977	2,875	16,383
	1978		
(93)	January	330	1,502
(94)	February	135	609
(95)	March	196	2,367
(96)	April	181	2,877
(97)	May	182	2,339
(98)	June	179	2,010
(99)	July	163	2,263
(100)	August	99	1,893
(101)	September	83	867
(102)	October	102	[illegible]
(103)	November	110	658
(104)	December	120	824
(105)	Total 1978	1,880	17,401
	1979		
(106)	January	135	408
(107)	February	201	1,072
(108)	March	177	[illegible]
(109)	April	171	[illegible]
(110)	May	166	[illegible]
(111)	June	124	[illegible]
(112)	July	-	-
(113)	August	203	1,516
(114)	September	173	[illegible]
(115)	October	137	[illegible]
(116)	Total 1979 to Date	1,335	12,350
(117)	Grand Total	33,564	[illegible]