Presidio Oil Company

3131 Turtle Creek Blvd. • Suite 400 • Dallas, Texas 75219-5415 • (214) 528-5898 • Facsimile (214) 528-2160

SUBSIDIARIES
Peake Operating Company
Presidio Energy, Inc
Presidio Exploration Inc
The Desana Corporation
The Petroleum Corp of Delaware

SUPERIOR FEDERAL WELL NO. 6
PRODUCTION ALLOCATION
EAST BURTON FLAT ATOKA GAS

Prior to adding the perforations in May of 1987, the well was flow tested. The 33 days before the workover the Morrow perfs from 11,177'-11,314' tested an average of 482 MCFGPD. On May 7, 1987 three sets of perforations were added from 11,118'-11,122'; 11,006'-11,011' + 10,951'-10,956'. The perforated interval from 10,951'-10,956' is designated by the State as an Atoka interval. A copy of the Compensated Neutron-Formation Density log with perforated intervals is attached. The following is a tabular presentation of log interpretation in each perforated interval. No

Perforated Interval	Net Feet of Pay (ft)	Average Porosity (%)	Net Cacl. Porosity-Feet	% Gas from Pay
10,951'-56'	6	6.2	0.372	41.15
11,006'-11'	8	3.5	0.280	30.97
11,118'-22'	6	4.2	0.252	27.88
				100.00

The total gross increase in production from the workover on May 7, 1987 was 62 MCFGPD. Using a weighted average of net porosity feet of pay to determine the percentage of the increased gas volume that came from the Atoka pay shows that 41.15% of the 62 MCFGPD increase came from the 10,951'-56' Atoka interval. This is a total volume of 25.5 MCFGPD from Atoka pay. The total volume from both Atoka and Morrow pay after the workover was an average of 544 MCFGPD. Therefore, the percentage of Atoka gas from the total stream of combined production is 25.5/544 = .0469 or approximately 4.7% of total daily production. The allocation of Atoka gas production is based on these calculations. The allocations of produced reserves is 4.7% of total production after the May, 1987 workover and future production will be allocated in the same manner. Total produced Atoka reserves is 19,677 MCFG + 65 BO through July of 1989; 4.7% of all future tubing side production will be allocated to the East Burton Flat Atoka Gas Pool.

↑ 62 MCF/D

N. M. O. C. C.

Form 9-331 (May 1963)

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.: NM-[illegible]

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR: The Petroleum Corporation

3. ADDRESS OF OPERATOR: 3303 Lee Parkway, Dallas, Texas 75219

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface: Unit Letter "J", 1980' FEL & 1980' FSL, Section 6, T20S-R29E, Eddy County, New Mexico

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6, T20S-R29E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3270 GR

12. COUNTY OR PARISH: Eddy 13. STATE: New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO: TEST WATER SHUT-OFF; FRACTURE TREAT; SHOOT OR ACIDIZE; REPAIR WELL; (Other) PULL OR ALTER CASING; MULTIPLE COMPLETE; ABANDON*; CHANGE PLANS

SUBSEQUENT REPORT OF: WATER SHUT-OFF; FRACTURE TREATMENT; SHOOTING OR ACIDIZING; (Other) Running [illegible] Casing

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On February 17, 1971 after drilling 9-1/2 inch hole to [illegible] feet, ran [illegible] 24#/ft., J-55 Casing to [illegible] feet. Cemented with 50 [illegible] [illegible] 2/17/71.

RECEIVED APR 9 1971 O. C. C. ARTESIA, OFFICE

RECEIVED APR 8 1971 U. S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED [signature] TITLE Petroleum Engineer DATE April [illegible], 1971

(This space for Federal or State office use)

APPROVED BY ____ TITLE ____ DATE ____

CONDITIONS OF APPROVAL, IF ANY:

ACCEPTED FOR RECORD PURPOSES APR 8 - 1971 [signature] ACTING District Engineer

*See Instructions on Reverse Side

ILLEGIBLE

N. M. O. C. C. COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. OIL WELL [X] GAS WELL [ ] OTHER

2. NAME OF OPERATOR
The Petroleum Corporation

3. ADDRESS OF OPERATOR
5909 Lee Freeway, Dallas, Texas 75219

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
See also space 17 below.
At surface
Unit Letter "F", 1980' FNL & 1980' FWL, Section 6, T20S-R29E, Eddy County, New Mexico

5. LEASE NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3770 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[ ]	SHOOTING OR ACIDIZING	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other) Run & set surface casing	[ ]
(Other)					

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

On January 29, 1971 moved in and drilled 17-1/2 inch hole to 20 [illegible] of 13-3/8", 48#/ft., H-40 casing and cemented w/Ready Mix C[illegible] 1/29/71.

RECEIVED
APR 9 1971
O. C. C.
ARTESIA, OFFICE

RECEIVED
APR 1 [illegible]
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct
SIGNED [illegible] TITLE Petroleum Engineer DATE April 5, 1971
(This space for Federal or State office use)
APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:
TITLE
DATE
APPROVED FOR RECORD PURPOSES
*See Instructions on Reverse Side

ILLEGIBLE

NEW MEXICO OIL CONSERVATION COMMISSION

WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
THE PETROLEUM CORP.	SUPERIOR FEDERAL	1

Unit Letter	Section	Township	Range	County
J	6	20 SOUTH	29 EAST	EDDY

Actual Footage Location of Well:
1980 feet from the SOUTH line and 1980 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage
	YATES	WILDCAT	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

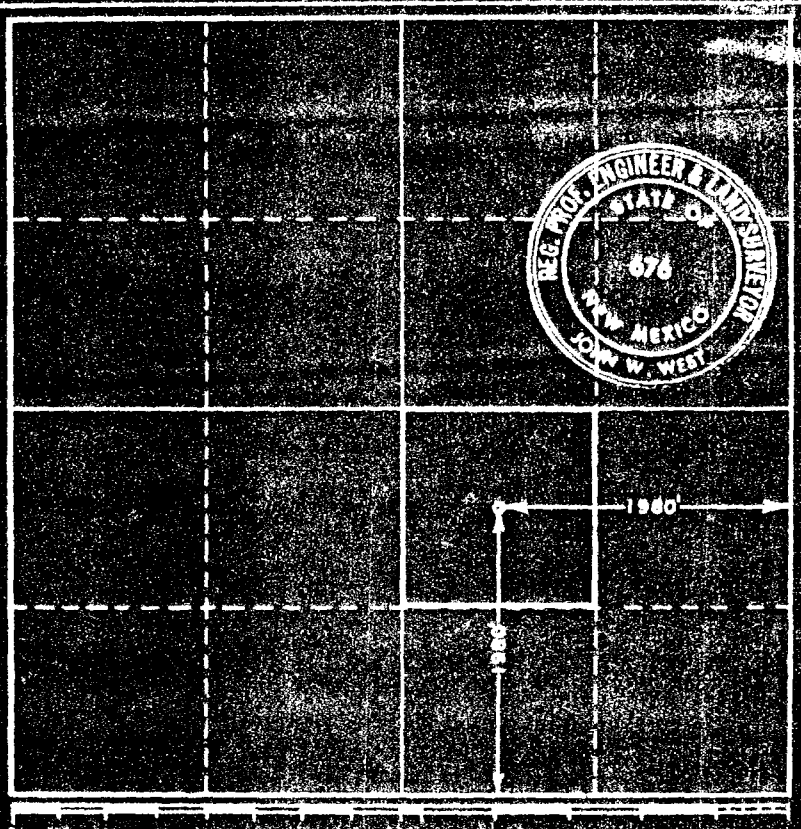
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name: _____

Position: _____

Company: _____

Date: JANUARY 27, 1971

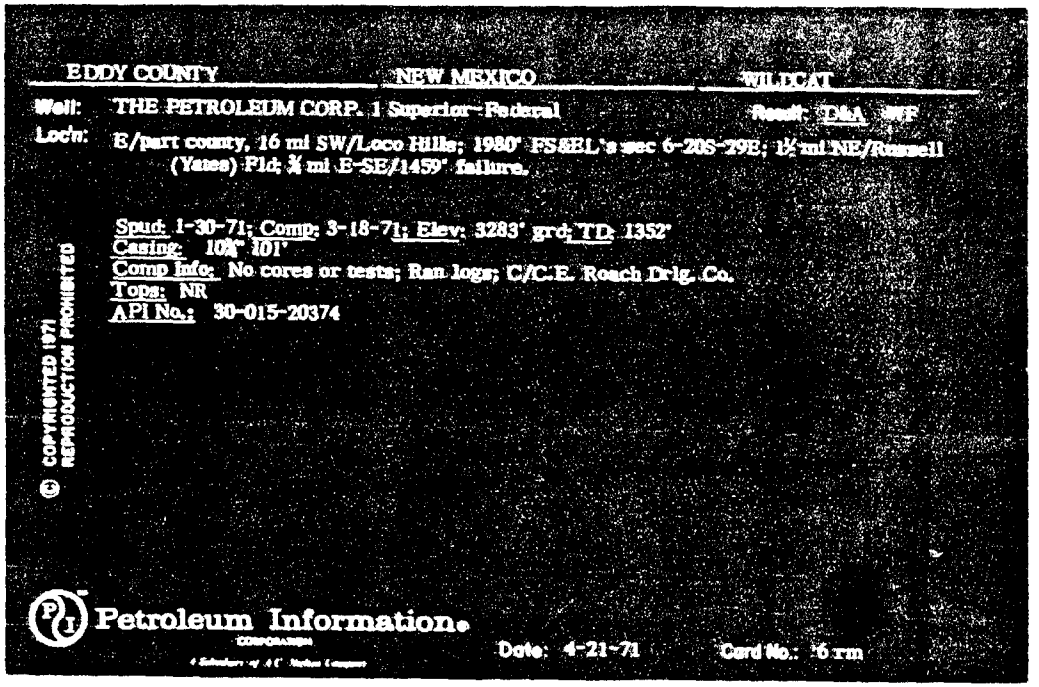
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed: JANUARY 27, 1971

Registered Professional Engineer and/or Land Surveyor

Certificate No. 676

ILLEGIBLE


EDDY COUNTY NEW MEXICO WILDCAT
Well: THE PETROLEUM CORP. 1 Superior-Federal Result: D&A WF
Loc'n: E/part county, 16 mi SW/Loco Hills; 1980' FS&EL's sec 6-20S-29E; 1½ mi NE/Russell (Yates) Fld; ¾ mi E-SE/1459' failure.
Spud: 1-30-71; Comp: 3-18-71; Elev: 3283' grd; TD: 1352'
Casing: 10¾" 101'
Comp Info: No cores or tests; Ran logs; C/C.E. Roach Drlg. Co.
Tops: NR
API No.: 30-015-20374
© COPYRIGHTED 1971 REPRODUCTION PROHIBITED
Petroleum Information
Date: 4-21-71
Card No.: 6 rm

LLEGIBLE

Form 9-331 C
(May 1963)

N. M. O. C. C. COPY SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [X] GAS WELL [ ] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: The Petroleum Corporation

3. ADDRESS OF OPERATOR: 3303 Lee Parkway, Dallas, Texas 75219

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: Unit Letter "J", 1980' FEL, & 1980' FSL, Sec. 6, T-20-S, R-29-E, Eddy County, New Mexico
At proposed prod. zone: Same as surface

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 12 miles northeast of Carlsbad, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any.): 660 ft.

16. NO. OF ACRES IN LEASE: 1,743 ac.

17. NO. OF ACRES ASSIGNED TO THIS WELL: 40 ac.

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: 3,500 ft.

19. PROPOSED DEPTH: 1,500 ft.

20. ROTARY OR CABLE TOOLS: Cable

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 3270 GR

22. APPROX. DATE WORK WILL START*: 1-29-71

1a. LEASE DESIGNATION AND SERIAL NO.: NM-014809

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME: Superior Federal

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6, T-20-S, R-29-E

12. COUNTY OR PARISH: Eddy

13. STATE: N. Mex.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12¼"	10 3/4"	42 lb.	160'	
10"	8 5/8"	24 lb.	400'	
8"	7"	23 lb.	1,000'	
6"			1,600'	

RECEIVED
JAN 27 1971
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Hal C. Deans TITLE Geologist DATE Jan. 27, 1971

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
R. L. BEEKMA
ACTING DISTRICT ENGINEER

THIS APPROVAL IS RESCINDED IF OPERATIONS ARE NOT COMMENCED WITHIN 3 MONTHS.
EXPIRES APR 28 1971

*See Instructions On Reverse Side

LLEGIBLE

N. M. O. C. C.

Form 9-331
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.: NM-014456

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

1b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: The Petroleum Corporation

3. ADDRESS OF OPERATOR: 8008 Lee Parkway, Dallas, Texas 75219

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: Unit Letter "J", 1980' FSL & 1980' FEL
At top prod. interval reported below
At total depth

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Wilkins

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 6, T20S-R39E

14. PERMIT NO.: —
DATE ISSUED: Jan. 28, 1971

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (Ready to prod.)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
1/29/71	3/15/71	P & A	3270 GL	

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
1,352	P & A		→	X	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: Gamma Ray-Neutron

27. WAS WELL CORED: No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB/FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8	48	20	17-1/2	Ready Mix	None
10-3/4	32.75	180	12-1/4	None	All
5-1/2	24	1,352	9-1/2	30 sxs	All

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
	None			

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
	None	

31. PERFORATION RECORD (Interval, size and number)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

Plug and Abandon

MAR 30 1971

O. C. C.

RECEIVED
MAR 29 1971
GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

33. PRODUCTION

DATE FIRST PRODUCTION: —
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): —
WELL STATUS (Producing or shut-in): —

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.): —

TEST WITNESSED BY: —

35. LIST OF ATTACHMENTS: —

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED: [signature] TITLE: Petroleum Engineer DATE: 3/29/71

*(See Instructions and Spaces for Additional Data on Reverse Side)

LLEGIBLE

LLEGIBLE

N. M. O. C. C. COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

The Petroleum Corporation

3505 Lee Parkway, Dallas, Texas 75219

Unit Letter "I", 1980' FEL & 1980' FSL, Section 6, T20S-R29E, Eddy County, New Mexico

3270 GR

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

Abandon: X

Reach total depth of 1352 feet on March 15, 1971. Western Company ran Gamma-Ray log on March 16, 1971. Received verbal permission from Leon Beekman to plug the well and release the rig.

Set 33 sxs -- 100' plug from 1352 to 1252 feet.
Set 33 sxs -- 100' plug, 50' inside and outside 8-5/8" casing.
Set 10 sxs. plug at surface and place marker.

RECEIVED
MAR 2 . 1971

TITLE: Petroleum Engineer

APPROVED
MAR 2 . 1971
R. L. BEEKMAN

See Instructions on Reverse Side

LLEGIBLE

N. M. O. C. C. Copy

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.: NM-014464

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Superior-Federal

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 6, T20S-R29E

12. COUNTY OR PARISH: Eddy

13. STATE: New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER

2. NAME OF OPERATOR: The Petroleum Corporation

3. ADDRESS OF OPERATOR: 3303 Lee Parkway, Dallas, Texas 75219

4. LOCATION OF WELL: Unit Letter "J", 1980' FSL & 1980' FSL, Section 6, T20S-R29E, Eddy County, New Mexico

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 3270 GR

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASING
SHOOT OR ACIDIZE	ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT* X
REPAIR WELL	CHANGE PLANS	(Other)	
(Other)		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Set 33 sxs. cement plug from 1352' to 1252'.
Set 33 sxs. cement plug from 472' to 372'.
Pulled 216' of 8-5/8" casing.
Pulled 180' of 10-3/4" casing.
Set 10 sxs. cement plug in surface and installed well marker. Cleaned location (ready for inspection).

RECEIVED
MAR 30 1973
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED: Larry C. Adams — TITLE: Petroleum Engineer — DATE: March 26, 1973

(This space for Federal or State office use)

APPROVED BY: — TITLE: — DATE:

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
MAR 29 1973
U. S. GEOLOGICAL SURVEY

*See Instructions on Reverse Side

LLEGIBLE

Presidio Oil Company

3131 Turtle Creek Blvd. • Suite 400 • Dallas, Texas 75219-5415 • (214) 528-5898 • Facsimile (214) 528-2160

SUBSIDIARIES
Peake Operating Company
Presidio Energy, Inc
Presidio Exploration, Inc
The Desana Corporation
The Petroleum Corp. of Delaware

August 15, 1989

Downhole Commingling
Superior Federal No.6
Unit N, Sec. 6, T20S, R29E
Eddy County, New Mexico

New Mexico Oil Conservation Division
P. O. Box 2088 Room 206
Sante Fe, NM 87504

Attention: Mr. David R. Catanach

The Petroleum Corporation of Delaware requests an exception to New Mexico Oil Conservation Division Rule 303-A to permit downhole commingling of production from the East Burton Flat-Morrow gas pool and the East Burton Flat-Atoka gas pool in the above captioned wellbore. This matter has been set for consideration at the August 23, 1989 examiner hearing.

Superior Federal Well No. 6 is currently classified a dually producing well from the Strawn and Morrow gas pools of the East Burton Flat Field in Eddy County, New Mexico. The Morrow has produced up the tubing since initially being completed in March of 1982 through Morrow perforations from 11,177' to 11,314'. Additional Morrow perforations were made in 3 zones during a workover in May of 1987. The casing was perforated with a through tubing gun while the downhole production equipment remained in place. At that time the geologist had interpreted all three sets of perforations to be Morrow pay. Recently we have been informed that the upper most set of perforations (10,951'-56') added during that May 1987 workover are actually in the Atoka Horizon as recognized by the State of New Mexico. Since the new zones were all perforated at the same time. Separate production tests and isolated reservoir pressures are not available. Also, separate testing of the zones now would be expensive and could potentially result in the loss of production by damaging the Morrow reservoir or partial loss of the wellbore. Therefore, we ask that no such requirement be imposed.

The completed NMOCD forms C-107 and C-115 for the Atoka are attached, as is the data described in Rule 303 (c) (2). All offset operators have been notified by copy of this letter and its attachments.

Sincerely,

Ronald P. Henderson

Ronald P. Henderson

RPH/jlw

Presidio Oil Company

3131 Turtle Creek Blvd • Suite 400 • Dallas Texas 75219-5415 • 214 528-5898 • Facsimile 214 528-2760

SUBSIDIARIES
Peake Operating Company
Presidio Energy, Inc
Presidio Exploration Inc
The Desana Corporation
The Petroleum Corp of Delaware

ATTACHMENT NO. 1
SUPERIOR FEDERAL WELL NO. 6
DOWNHOLE COMMINGLING - DATA REQUIRED

To obtain approval for donwhole commingling, we have enclosed the following data pursuant to Rule 303 (c)(2) (a through j):

1. Company's Name and Address:

   The Petroleum Corporation of Delaware
   3131 Turtle Creek Blvd. Ste. #400
   Dallas, Texas 75219-5415

2. Lease Name, Well Number, Well Location and Name of Pools to be commingled:

   Superior Federal Well No. 6, Unit N, Section 6, T20S, R29E, Eddy County, New Mexico. Pools to be commingled: East Burton Flat Atoka Gas Pool and East Burton Flat Morrow Gas Pool.

3. A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases:

   Attached.

4. A 24-hour productivity test of Division Form C-116 showing the amount of oil, gas and water produced from each zone:

   Test is on total stream from combined Atoka and Morrow production. Division of production based on allocation formula from production before and after perforations were added in May of 1987.

5. The new perforations were added in May of 1987 and produced commingled with Morrow production until the present. Separate production curves therefore do not exist. A production curve for the Superior Federal No. 6 Morrow from initial completion to present is attached. The allocation formula for Atoka production is attached and shows the Atoka interval to be producing 25 MCFGPD and all other Morrow perforations producing 510 MCFGPD. A complete description of the production tests before and after the May, 1987 workover and the description and results of the June, 1987 acid treatment are also attached.

6. Current bottomhole pressures are not available due to the history of the zones being produced together. We are requesting relief from the requirement to provide separate production and pressure data on each

Presidio Oil Company

3131 Turtle Creek Blvd • Suite 400 • Dallas Texas 75219-5415 • (214) 528-5898 • Facsimile (214) 528-2160

SUBSIDIARIES
Peake Operating Company
Presidio Energy Inc
Presidio Exploration Inc
The Desana Corporation
The Petroleum Corp of Delaware

individual zone. Testing each zone is economically prohibitive due to the small volume of Atoka production (approximately 25 MCFGPD). Testing could also result in the loss of production from the Morrow zones.

A history of the stabilized shut in tubing pressures is attached. This graph indicates a 170 psi increase in shut in pressure after the workover. If the Lower pressure zone had been left to decline alone until August of 1989 the SITP would be 680 psi. The combined SITP of the zones together extrapolates to 750 psi in August of 1989. There is not a 50% difference in pressures.

This is significant in that the well produces through a compressor and this will prevent crossflow from occurring because the flowing tubing pressure is pulled down to about 230 psi.

7. Descriptions of the gas analysis before and after the workover are attached. The gas samples are almost identical comparing gas just before the work and gas now.

   The streams have also been commingled downhole and at the surface and have produced no compatibility problems.

8. The 62 MCFGPD increase in production that resulted from the additional perforations is the only link to estimating Atoka gas production. Using the method described in the allocation formula showed an estimated production of 25 MCFGPD from the Atoka interval.

   The sum of the value of the individual streams is the commingled production that has been producing since the May, 1987 workover.

9. A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such a formula:

   The following allocation percentages are suggested based upon the ratio of production from each zone:

	Expected Production Gas	
Atoka	25 MCF/D	(4.7%)
Morrow	510 MCF/D	(95.3%)
Commingled	535 MCF/D	(100.0%)

Presidio Oil Company

3131 Turtle Creek Blvd • Suite 400 • Dallas Texas 75219-5415 • 214) 528-5898 • Facsimile (214) 528-2160

SUBSIDIARIES
Peake Operating Company
Presidio Energy Inc
Presidio Exploration Inc
The Desana Corporation
The Petroleum Corp of Delaware

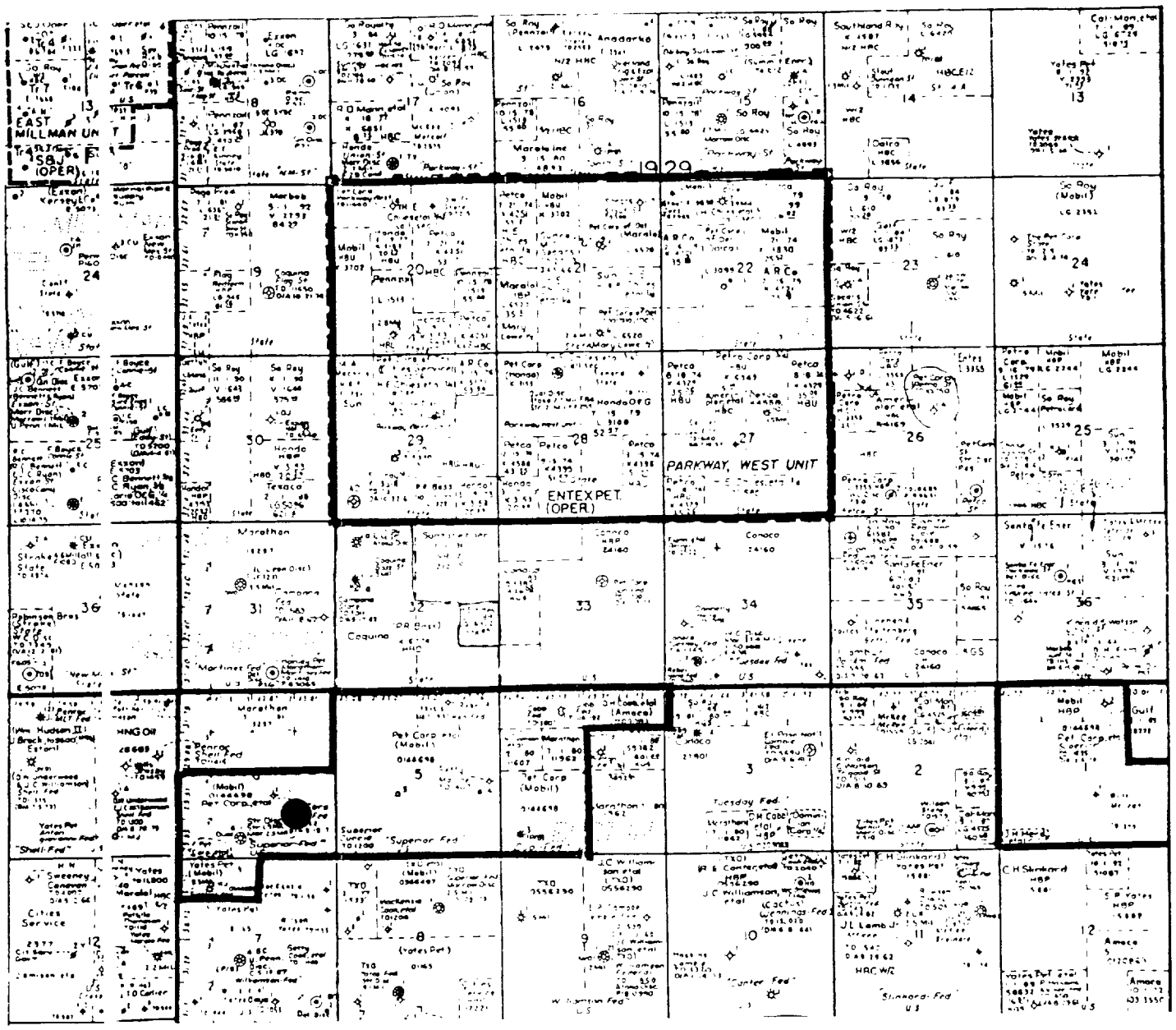
10. A statement that all offset operators and in the case of a well on Federal Land, the United States Geological Survey, has been notified in writing of the proposed commingling:

    By copy of this letter, we are notifying the offset operators of this proposed commingling.

11. in addition, working interest and royalty interest ownership in all zones are the same.

12. Also attached is a stratigraphic cross section of the Atoka Formation through the immediate area. The section illustrates the stratigraphic nature of the locally-developed Atoka sand. The neutron-density "cross-over" gas/effect is only evident in the subject well. Additionally, the offsetting wells exhibit less than 4% effective porosity for the correlative sand.

13. The structure map , on the top of this Atoka sand depicts a nosing or flattening of the regional dip at the Superior Federal No. 6 well, indicative of a stratigraphic trap.



Presidio Oil Company

STATE: NEW MEXICO

COUNTY: EDDY

SUPERIOR-FEDERAL AREA

LAND PLAT

SCALE: 1"/4000'

MARCH 1988

OCD Case No. 9663
List of Offset Operators

International Oil and Gas Corporation
16825 Northchase Dr., Ste. 1400
Houston, Texas 77060-6001

Mobil Oil Company
P. O. Box 633
Midland, Texas 79702

William Moss
3811 Turtle Creek Blvd.
Suite 700
Dallas, Texas 75219

American Exploration
4500 Republic Bank Center
700 Louisiana
Houston, Texas 77002

Hal Dean
One First City Ctr.
Suite 1440
Midland, Texas 79701

Texaco U.S.A.
P. O. Box 52332
Texaco Building
Houston, Texas 77052

Manzano Oil Corporation
P. O. Box 2107
Roswell, New Mexico 88202

Permian Basin Investment Corporation
648 Petroleum Bldg.
Roswell, New Mexico 88201

Yates Petroleum Corporation
Yates Building
105 South 4th
Artesia, New Mexico 88210

HNG Oil Company
P. O. Box 2267
Midland, Texas 79702

Texas Oil and Gas Corporation
1700 Pacific, LB10
Dallas, Texas 75201

Marathon Oil Company
539 S. Main Street
Findlay, Ohio 45840

Submit 2 copies to Appropriate District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator	Pool	County
THE PETROLEUM CORPORATION OF DELAWARE	EAST BURTON FLAT MORROW	EDDY

Address: 3131 TURTLE CREEK BLVD #400, DALLAS, TX. 75219-5415

TYPE OF TEST - (X): Scheduled [ ] Completion [ ] Special [XXX]

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS - OIL RATIO CU.FT/BBL.
SUPERIOR FEDERAL	6	N	6	20S	29E	4/28/89	F	1/2"	230		24	0	56.6	1.5	525	350,000
						5/29/89	F	1/2"	200		24	0	57.0	1.4	516	369,000
						6/26/89	F	1/2"	250		24	0	56.7	1.5	532	355,000

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Ronald P. Henderson
Signature

Ronald P. Henderson Operations Engineer
Printed name and title

8/14/89 214 523 5898
Date Telephone No.

Submit 2 copies to Appropriate District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-116
Revised 1/1/89

GAS - OIL RATIO TEST

Operator	Pool	County
THE PETROLEUM CORPORATION OF DELAWARE	EAST BURTON FLAT ATOKA	EDDY

Address: 3131 TURTLE CREEK BLVD. #400, DALLAS, TX. 75219-5415

TYPE OF TEST - (X): Scheduled [ ] Completion [ ] Special [XXX]

LEASE NAME	WELL NO.	LOCATION U	S	T	R	DATE OF TEST	STATUS	CHOKE SIZE	TBG. PRESS.	DAILY ALLOW-ABLE	LENGTH OF TEST HOURS	PROD. DURING TEST WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	GAS - OIL RATIO CU.FT/BBL.
SUPERIOR FEDERAL	6	N	6	20S	29E	4/28/89	F	1/2"	230		24	0	56.6	0.07	26	350,000
						5/29/89	F	1/2"	200		24	0	57.0	0.07	25	369,000
						6/26/89	F	1/2"	250		24	0	56.7	0.07	26	355,000

Instructions:

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Division.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F. Specific gravity base will be 0.60.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

I hereby certify that the above information is true and complete to the best of my knowledge and belief.

Ronald P. Henderson
Signature

RONALD P. HENDERSON OPERATIONS ENGINEER
Printed name and title

3/14/89 214 528 5398
Date Telephone No.

Date: 08/14/89
Time: 17:32.52

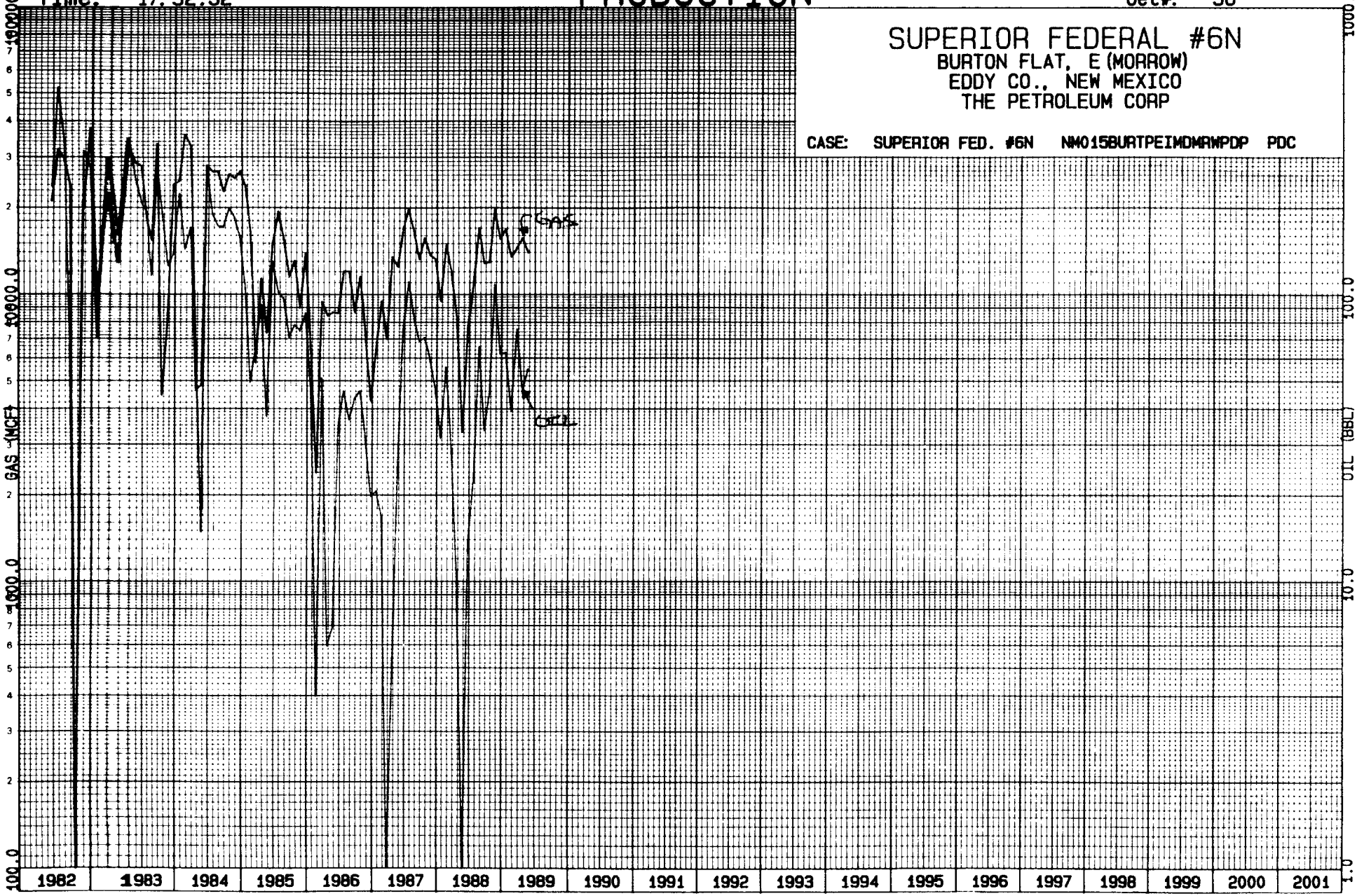
PRODUCTION

File: NM.DSF
Get#: 56

SUPERIOR FEDERAL #6N

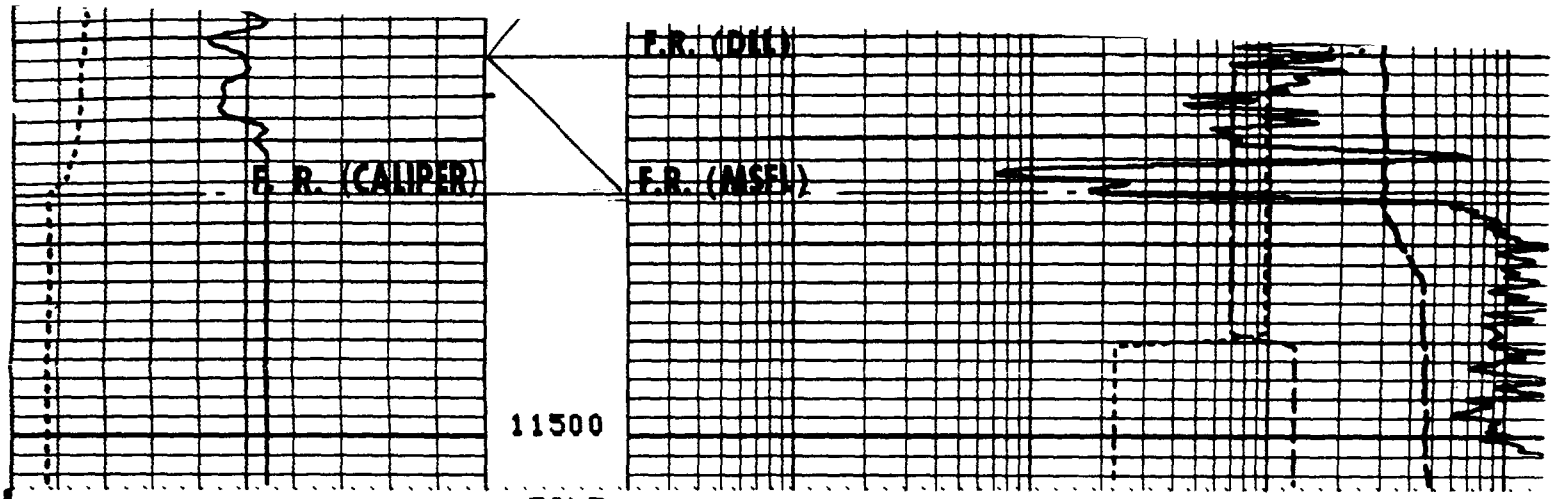
BURTON FLAT, E (MORROW)
EDDY CO., NEW MEXICO
THE PETROLEUM CORP

CASE: SUPERIOR FED. #6N NM015BURTPEIMDMRWPDP PDC



DPC & A

SL 20 3 3



FILE

5

GR (GAPI)		LLD (OHMM)		TENS(LB)	
100.0	200.0	2000.	200000	10000.	0.
CALI(IN)		MSFL(OHMM)			
6.000	16.00	0.2000			2000
GR (GAPI)		LLS (OHMM)			
0.0	100.0	0.2000			2000
		LLD (OHMM)			
		0.2000			2000

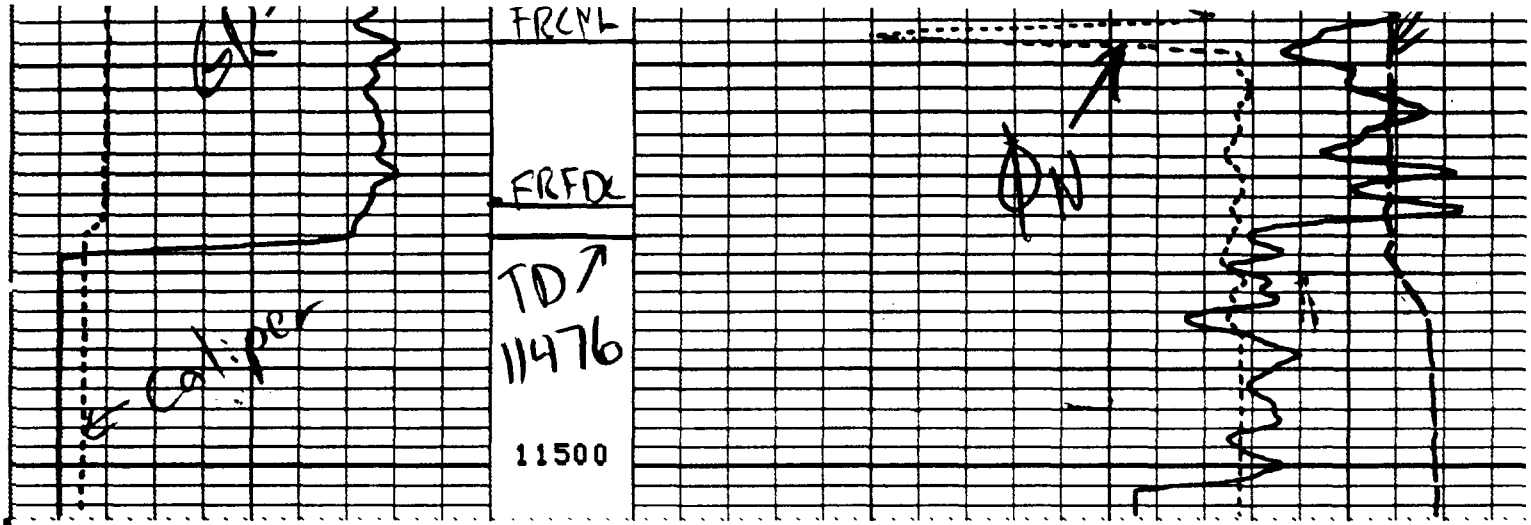
SENSOR MEASURE POINT TO TENSION REFERENCE POINT

CALI	3.7	FEET	GR	33.9	FEET
DI90	14.6	FEET	DV90	14.6	FEET
SI90	14.6	FEET	SV90	14.6	FEET
DIO	14.6	FEET	DVO	14.6	FEET
SIO	14.6	FEET	SVO	14.6	FEET
LLS	14.6	FEET	TENS	.0	FEET
CMSF	1.7	FEET	LLD	14.6	FEET
I1	1.7	FEET			

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
SPT	STAN		BS	7.875	IN
DD	0.0		BHS	OPEN	

GR (GAPI)		LLD (OHMM)		TENS(LB)	
100.0	200.0	2000.	200000	10000.	0
CALI(IN)		MSFL(OHMM)			
6.000	16.00	0.2000			200
		LLS (OHMM)			
		0.2000			200



FILE

4

Detail Log

GR (GAPI)			TENS(LB)	
100.0	200.0		10000.	0
CALI(IN)		NPHI(Lime)		
6.000	16.00	0.3000		-0.1
GR (GAPI)		DPHI(Lime)		
0.0	100.0	0.3000		-0.1

SENSOR MEASURE POINT TO TENSION REFERENCE POINT

NCNL	18.3	FEET	GR	26.8	FEET
FFDC	3.0	FEET	FCNL	18.3	FEET
CALI	3.0	FEET	NFDC	3.0	FEET
NRAT	18.3	FEET	TENS	.0	FEET

PARAMETERS

NAME	VALUE	UNIT	NAME	VALUE	UNIT
PSNR	2.328		BS	7.875	IN
MATR	LIME		HC	CALI	
MDEN	2.710	G/C3	FD	1.100	G/C3
BHF	WATE		FDCC	ALLO	
DD	0.0		BHS	OPEN	

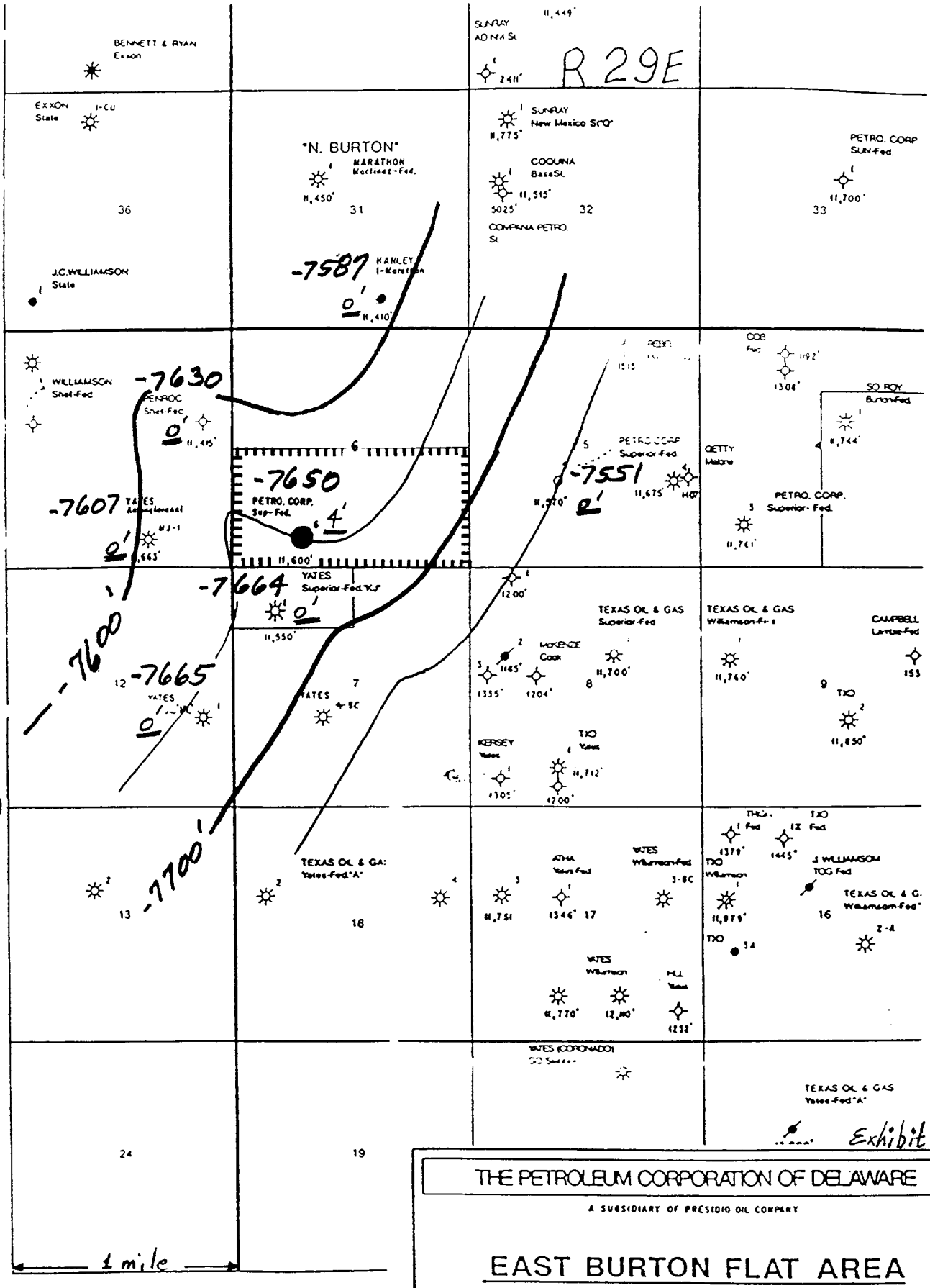


Exhibit No.

THE PETROLEUM CORPORATION OF DELAWARE

A SUBSIDIARY OF PRESIDIO OIL COMPANY

EAST BURTON FLAT AREA

EDDY COUNTY, NEW MEXICO

STRUCTURE MAP

TOP OF Basal Atoka Sand in Sup.-Fed. #6, Sec. 6-T20S-R29E

CI = 50'

By: Michael L. Dusing 5/17/89

1': NET FEET BASAL ATOKA SAND SHOWING GAS-EFFECT OF Neutron-Density CrossOver

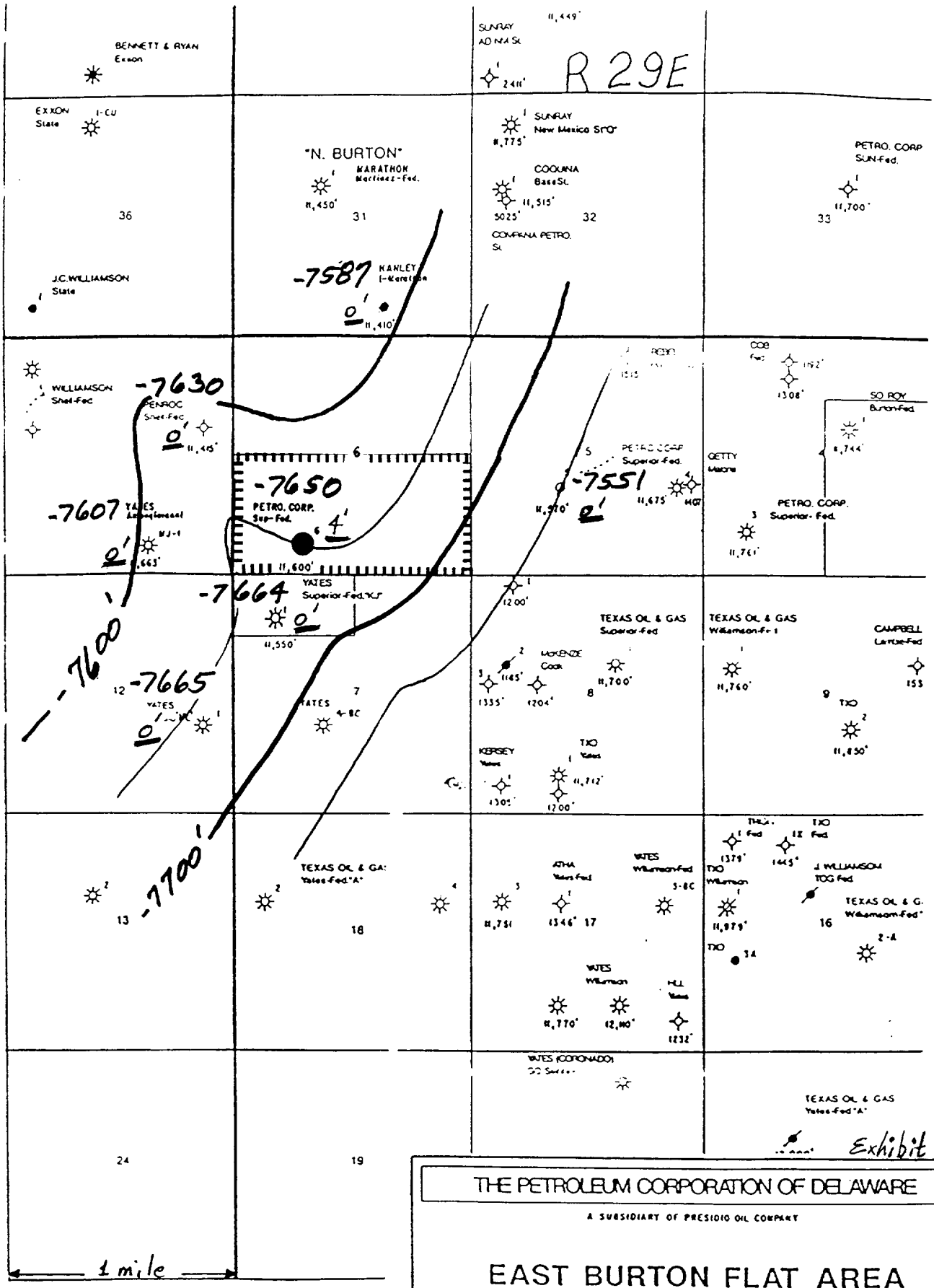


Exhibit No.

THE PETROLEUM CORPORATION OF DELAWARE

A SUBSIDIARY OF PRESIDIO OIL COMPANY

EAST BURTON FLAT AREA

EDDY COUNTY, NEW MEXICO

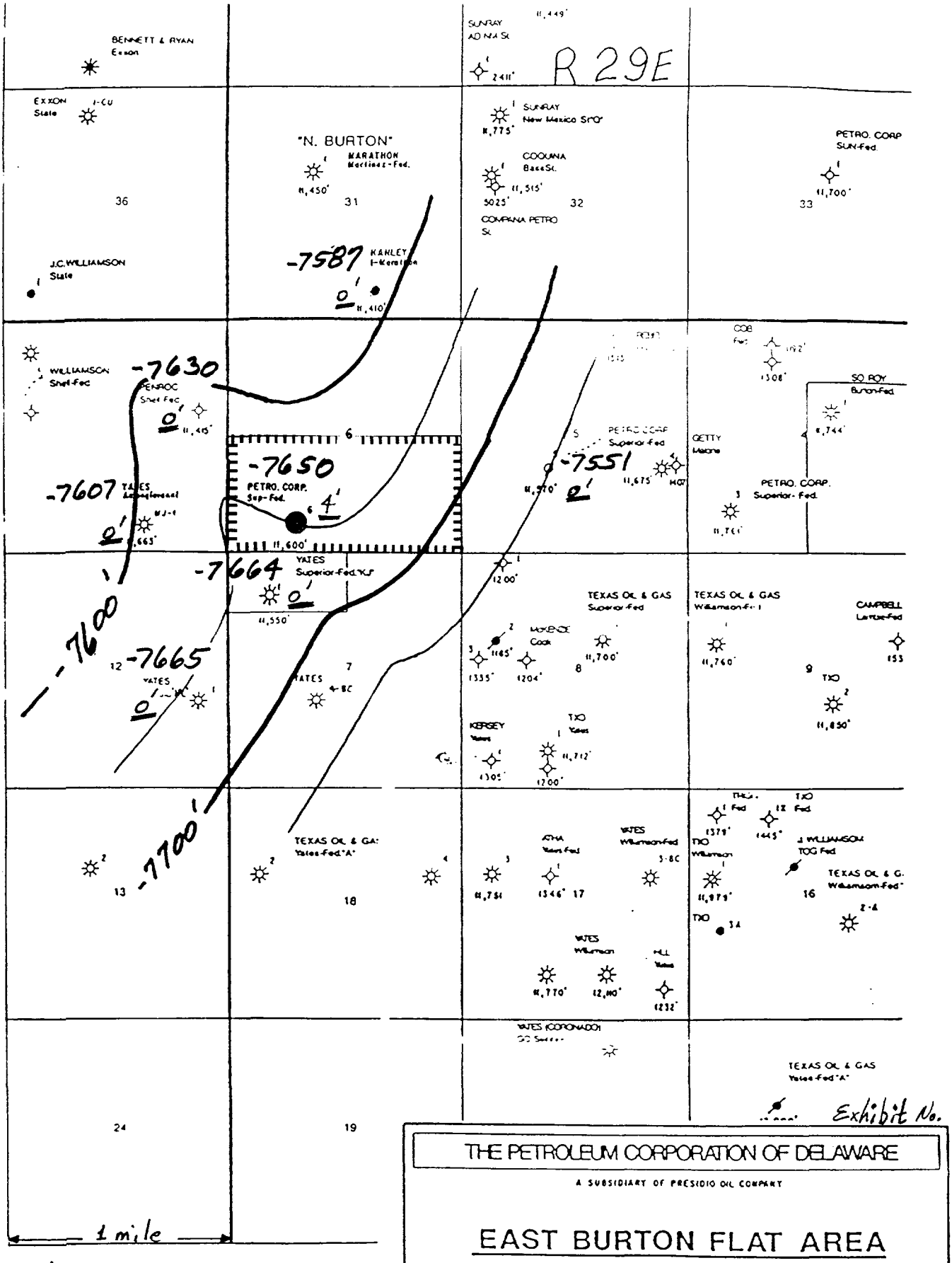
STRUCTURE MAP

TOP OF Basal Atoka Sand in Sup.-Fed. #6, Sec. 6-T20S-R29E

CI = 50'

By: Michael L. Dusing 5/17/89

4': NET FEET BASAL ATOKA SAND SHOWING GAS-EFFECT OF Neutron-Density CrossOver



4': NET FEET BASAL ATOKA SAND SHOWING GAS-EFFECT OF Neutron-Density CrossOver

THE PETROLEUM CORPORATION OF DELAWARE

A SUBSIDIARY OF PRESIDIO OIL COMPANY

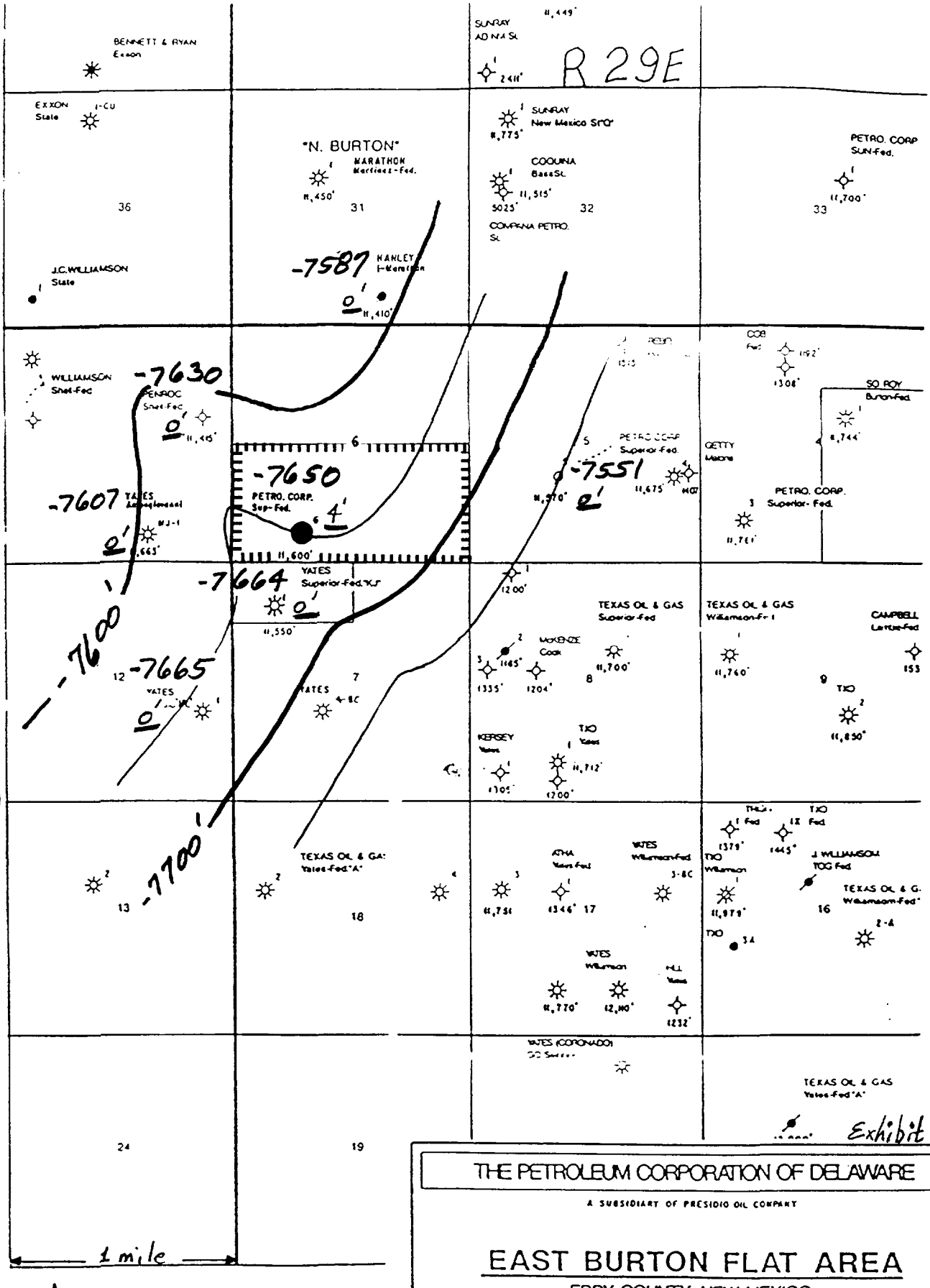
EAST BURTON FLAT AREA

EDDY COUNTY, NEW MEXICO

STRUCTURE MAP

TOP OF Basal Atoka Sand in Sup.-Fed. #6, Sec. 6-T20S-R29E

CI = 50' By: Michael L. Dusing 5/17/89



4': NET FEET BASAL ATOKA SAND SHOWING GAS-EFFECT OF Neutron-Density CrossOver

THE PETROLEUM CORPORATION OF DELAWARE

A SUBSIDIARY OF PRESIDIO OIL COMPANY

EAST BURTON FLAT AREA

EDDY COUNTY, NEW MEXICO

STRUCTURE MAP

TOP OF Basal Atoka Sand in Sup.-Fed. #6, Sec. 6-T20S-R29E

CI = 50' By: Michael L. Dusing 5/17/89

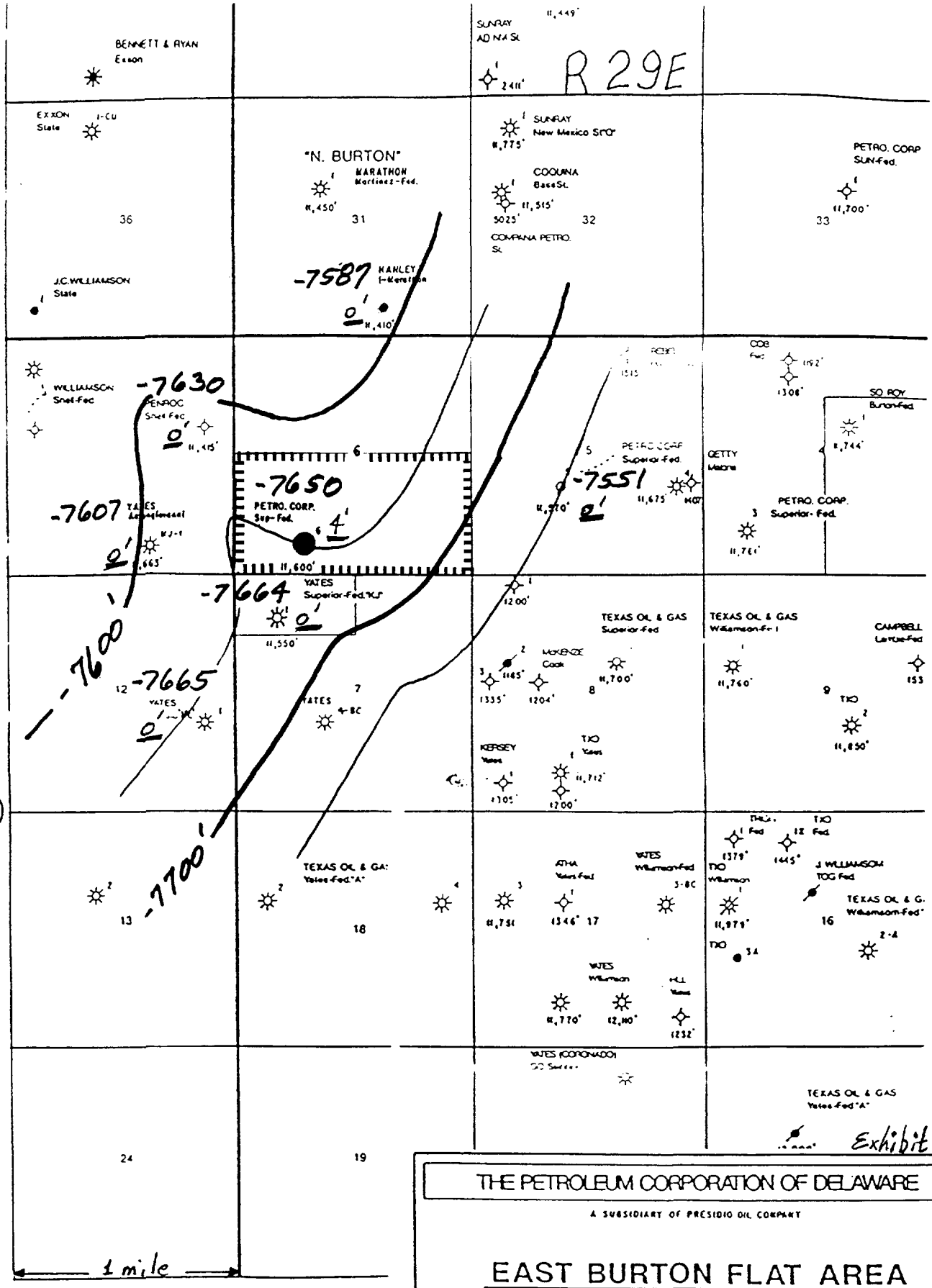


Exhibit No.

THE PETROLEUM CORPORATION OF DELAWARE

A SUBSIDIARY OF PRESIDIO OIL COMPANY

EAST BURTON FLAT AREA

EDDY COUNTY, NEW MEXICO

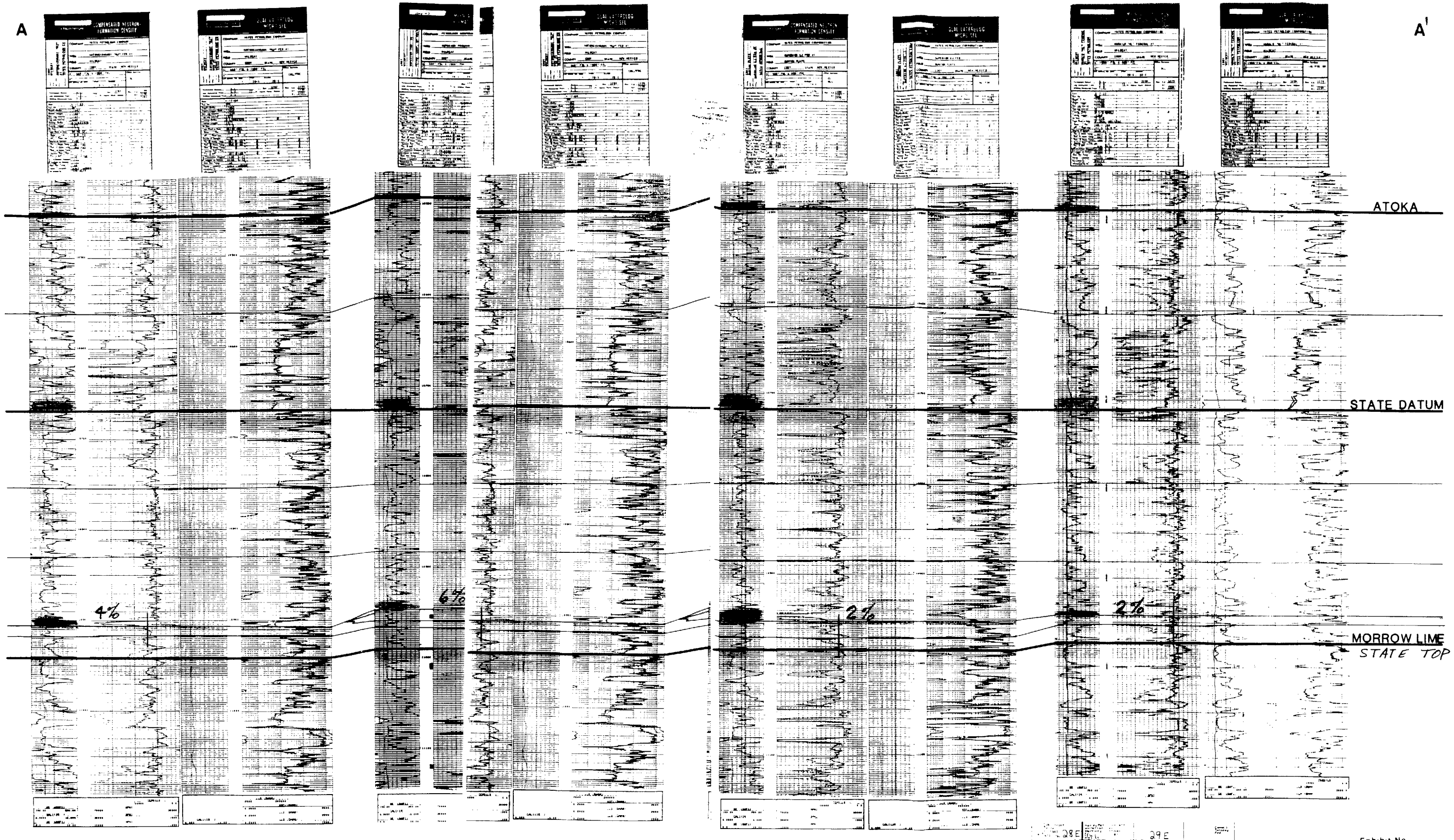
STRUCTURE MAP

TOP OF Basal Atoka Sand in Sup.-Fed. #6, Sec. 6-T20S-R29E

CI = 50'

By: Michael L. Dusing 5/17/89

4': NET FEET BASAL ATOKA SAND SHOWING GAS-EFFECT OF Neutron-Density CrossOver



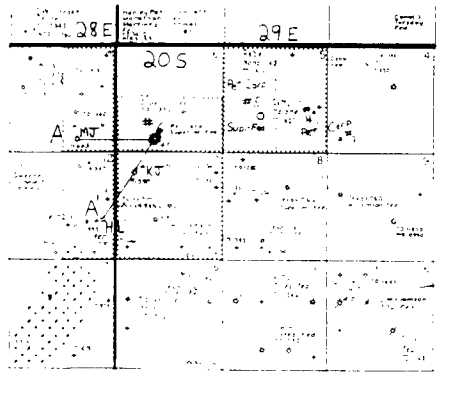


Exhibit No.

THE PETROLEUM CORPORATION
OF DELAWARE
A SUBSIDIARY OF PHILLIPS OIL COMPANY

STRATIGRAPHIC SECTION
SEC. 6-20S-29E
Eddy Co., New Mexico

Geology: M.L. Dusing 5/15/89

A

A'

ATOKA

STATE DATUM

MORROW LIME
STATE TOP

4%

6%

2%

2%

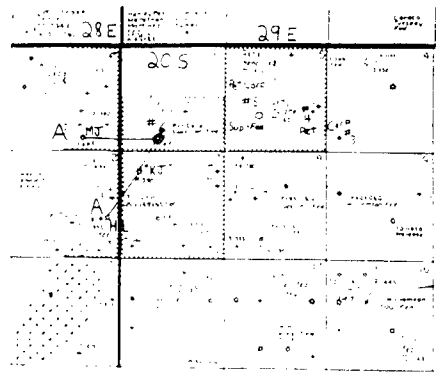


Exhibit No.

THE PETROLEUM CORPORATION
OF DELAWARE
A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY

STRATIGRAPHIC SECTION

SEC.6-20S-29E

Eddy Co., New Mexico

Geology: M.L.Dusing 5/15/89

A

A'

ATOKA

STATE DATUM

MORROW LIME
STATE TOP

4%

6%

2%

2%

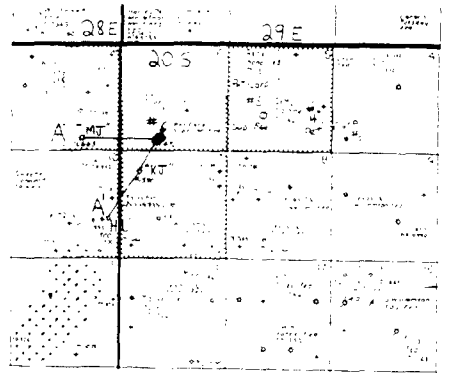


Exhibit No.

THE PETROLEUM CORPORATION OF DELAWARE
A SUBSIDIARY OF PRESIDIO OIL COMPANY

STRATIGRAPHIC SECTION

SEC. 6-20S-29E

Eddy Co., New Mexico

Geology M.L.Dusing 5/15/89

A

A'

ATOKA

STATE DATUM

MORROW LIME

STATE TOP

4%

6%

2%

2%

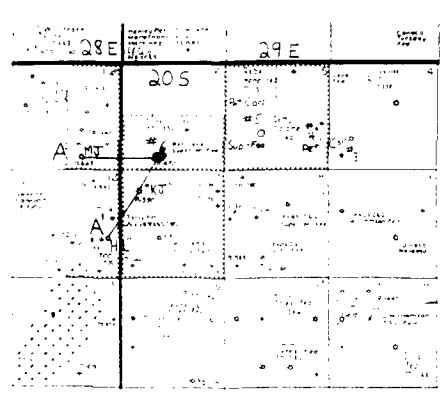


Exhibit No.

THE PETROLEUM CORPORATION OF DELAWARE

A SUBSIDIARY OF PRESSCO OIL COMPANY

STRATIGRAPHIC SECTION

SEC.6-20S-29E

Eddy Co., New Mexico

Geology: M.L.Dusing 5/15/89

A

A'

ATOKA

STATE DATUM

MORROW LIME
STATE TOP

4%

6%

2%

2%

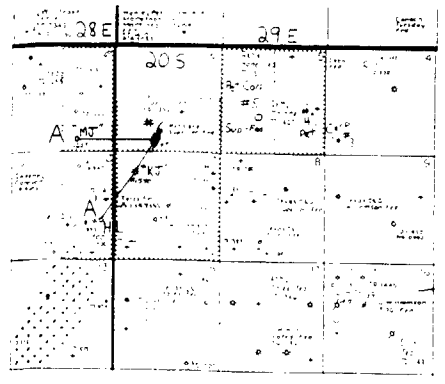


Exhibit No.

THE PETROLEUM CORPORATION
OF DELAWARE
A SUBSIDIARY OF AMERADA HESS CORPORATION

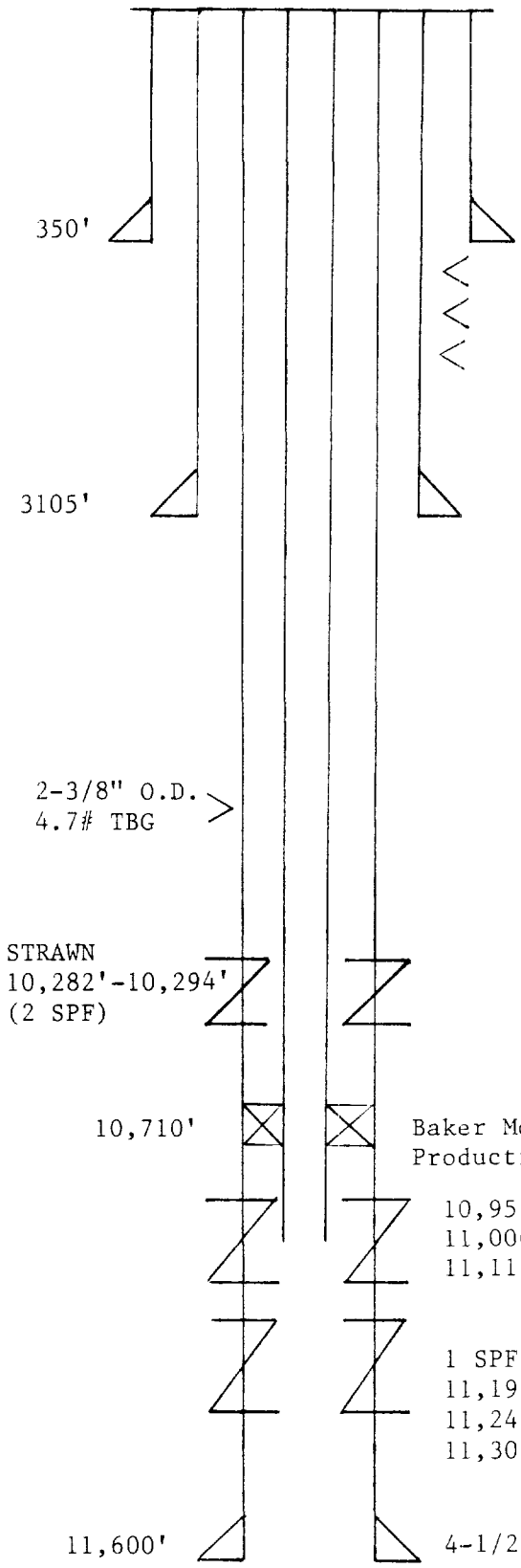
STRATIGRAPHIC SECTION

SEC. 6-20S-29E

Eddy Co., New Mexico

Geology: M.L. Dusing 5/15/89

SUPERIOR FEDERAL WELL NO. 6
660' FSL and 1980' FWL
Section 6, T20S, R29E
East Burton Flat Field
Eddy County, New Mexico



11-3/4" O.D. 42# CSG @ 350'
Cemented with 350 sacks Class C + 2% $CaCl_2$
Cement circulated.

D.V. Tool @ 1789' in 8-5/8" CSG

8-5/8" O.D. 24# CSG @ 909'

8-5/8" O.D. 32# CSG @ 3105'

Cemented 1st Stage: 200 sacks HLW + 5# Gilsonite + 5# Salt. Tailed with 400 sacks Class C + 1/4# Flocele + 2% $CaCl_2$.
2nd Stage: 950 sacks HLW + 5# Gilsonite + 5# Salt. Tailed with 150 sacks Class C + 1/4# Flocele + 2% $CaCl_2$.

Cement did not circulate. Ran Cement Bond Log. Top of cement at 745'. Perforated and set retainer at 660', cemented with 500 sacks HLW + 5# Gilsonite + 5# Salt. Tailed with 300 sacks Class C + 4% $CaCl_2$. Cmt circulated.

8-5/8" Centralizers @ 3090', 3065', 3025', 1829', 1749'

4-1/2" O.D. 13.5# CSG @ 11,600'

4-1/4" O.D. 11.6# CSG @ 10,434'

D.V. Tool in 4-1/4" CSG @ 8,995'

Cemented 1st Stage: 300 sacks HLW + 5% CFR-2 + 5# KCl. Tailed with 400 sacks Class H + 3/4% CFR-2 + 0.3% Halad-22 + 5# KCl.
2nd Stage: 575 sacks HLW + 5% CFR-2 + 5# KCl. Tailed with 500 sacks Class H + 5# KCl. Ran Cement Bond Log. Top of cement at 5560'. 4-1/2" Centralizers at 11,580', 11,520', 9,040' and 8,952'.

Baker Model DB
Production Packer

10,951'-956' (ATOKA) 2 SPF
11,006'-011' (MORROW) 2 SPF
11,118'-122' (MORROW) 2 SPF

1 SPF AS FOLLOWS: 11,177'; 11,180'; 11,186'; 11,191'; 11,195'; 11,199'; 11,203'; 11,217'; 11,236'; 11,241'; 11,247'; 11,251'; 11,267'; 11,270'; 11,276'; 11,281'; 11,301'; 11,306'; 11,310'; 11,314'

4-1/2" O.D. 13.5# CSG. @ 11,600'

RPH/EAS

Presidio Oil Company

3131 Turtle Creek Blvd • Suite 400 • Dallas Texas 75219-5415 • 214 528-5898 • Facsimile 214 528-2160

SUBSIDIARIES
Peake Operating Company
Presidio Energy Inc
Presidio Exploration Inc
The Desana Corporation
The Petroleum Corp of Delaware

SUPERIOR FEDERAL WELL NO. 6
PRODUCTION ALLOCATION
EAST BURTON FLAT ATOKA GAS

Prior to adding the perforations in May of 1987, the well was flow tested. The 33 days before the workover the Morrow perfs from 11,177'-11,314' tested an average of 482 MCFGPD. On May 7, 1987 three sets of perforations were added from 11,118'-11,122'; 11,006'-11,011' + 10,951'-10,956'. The perforated interval from 10,951'-10,956' is designated by the State as an Atoka interval. A copy of the Compensated Neutron-Formation Density log with perforated intervals is attached. The following is a tabular presentation of log interpretation in each perforated interval.

Perforated Interval	Net Feet of Pay (ft)	Average Porosity (%)	Net Cacl. Porosity-Feet	% Gas from Pay
10,951'-56'	6	6.2	0.372	41.15
11,006'-11'	8	3.5	0.280	30.97
11,118'-22'	6	4.2	0.252	27.88
				100.00

The total gross increase in production from the workover on May 7, 1987 was 62 MCFGPD. Using a weighted average of net porosity feet of pay to determine the percentage of the increased gas volume that came from the Atoka pay shows that 41.15% of the 62 MCFGPD increase came from the 10,951'-56' Atoka interval. This is a total volume of 25.5 MCFGPD from Atoka pay. The total volume from both Atoka and Morrow pay after the workover was an average of 544 MCFGPD. Therefore, the percentage of Atoka gas from the total stream of combined production is 25.5/544 = .0469 or approximately 4.7% of total daily production. The allocation of Atoka gas production is based on these calculations. The allocations of produced reserves is 4.7% of total production after the May, 1987 workover and future production will be allocated in the same manner. Total produced Atoka reserves is 19,677 MCFG + 65 BO through July of 1989; 4.7% of all future tubing side production will be allocated to the East Burton Flat Atoka Gas Pool.

Presidio Oil Company

3131 Turtle Creek Blvd • Suite 400 • Dallas, Texas 75219-5415 • 214/528-5898 • Facsimile 214/528-2160

SUBSIDIARIES
Peake Operating Company
Presidio Energy, Inc.
Presidio Exploration, Inc.
The Desana Corporation
The Petroleum Corp. of Delaware

SUPERIOR FEDERAL NO. 6
WORKOVER DETAIL

A graph of the 33 days production prior to the May 7, 1987 perforating is attached. The tests averaged 482 MCFGPD with a 530 psi flowing tubing pressure.

On May 7, 1987 perforations were added via a 1-11/16" through tubing perforating gun. The intervals 10,951'-56'; 11,006'-11' and 11,118'-22' were perforated with 2 shots per foot with no fluid cushion. At this time there was no stimulation performed and the well was returned to production immediately.

The well was flow tested for 32 days and averaged 544 MCFGPD from all perforations old and new. This was a 62 MCFGPD increase in production.

On June 9th the entire Morrow/Atoka interval was acidized. This included both the old and new perforations. The acid job consisted of 4250 gallons of 7-1/2% MS acid pumped with 500 SCF/bbl nitrogen and 122 RCN ball sealers spaced evenly throughout the job.

The zones were production tested for 35 days after acidizing and the zones produced an average of 630 MCFGPD.

Presidio Oil Company

3131 Turtle Creek Blvd • Suite 400 • Dallas Texas 75219-5415 • (214) 528-5898 • Facsimile 214 528-2160

SUBSIDIARIES
Peake Operating Company
Presidio Energy Inc
Presidio Exploration Inc
The Desana Corporation
The Petroleum Corp of Delaware

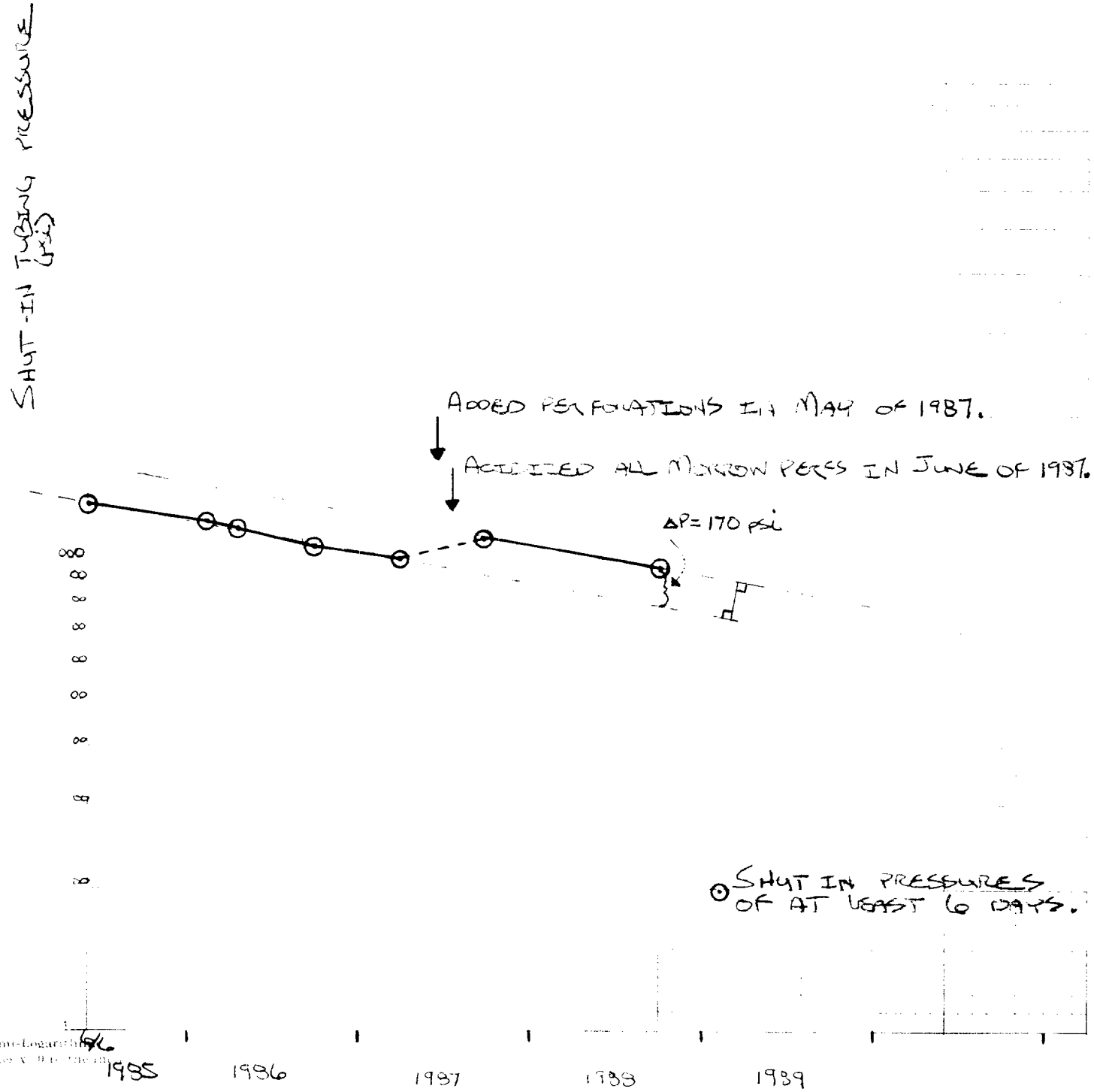
SUPERIOR FEDERAL NO. 6
GAS CHROMATOGRAPHIC TEST DATA

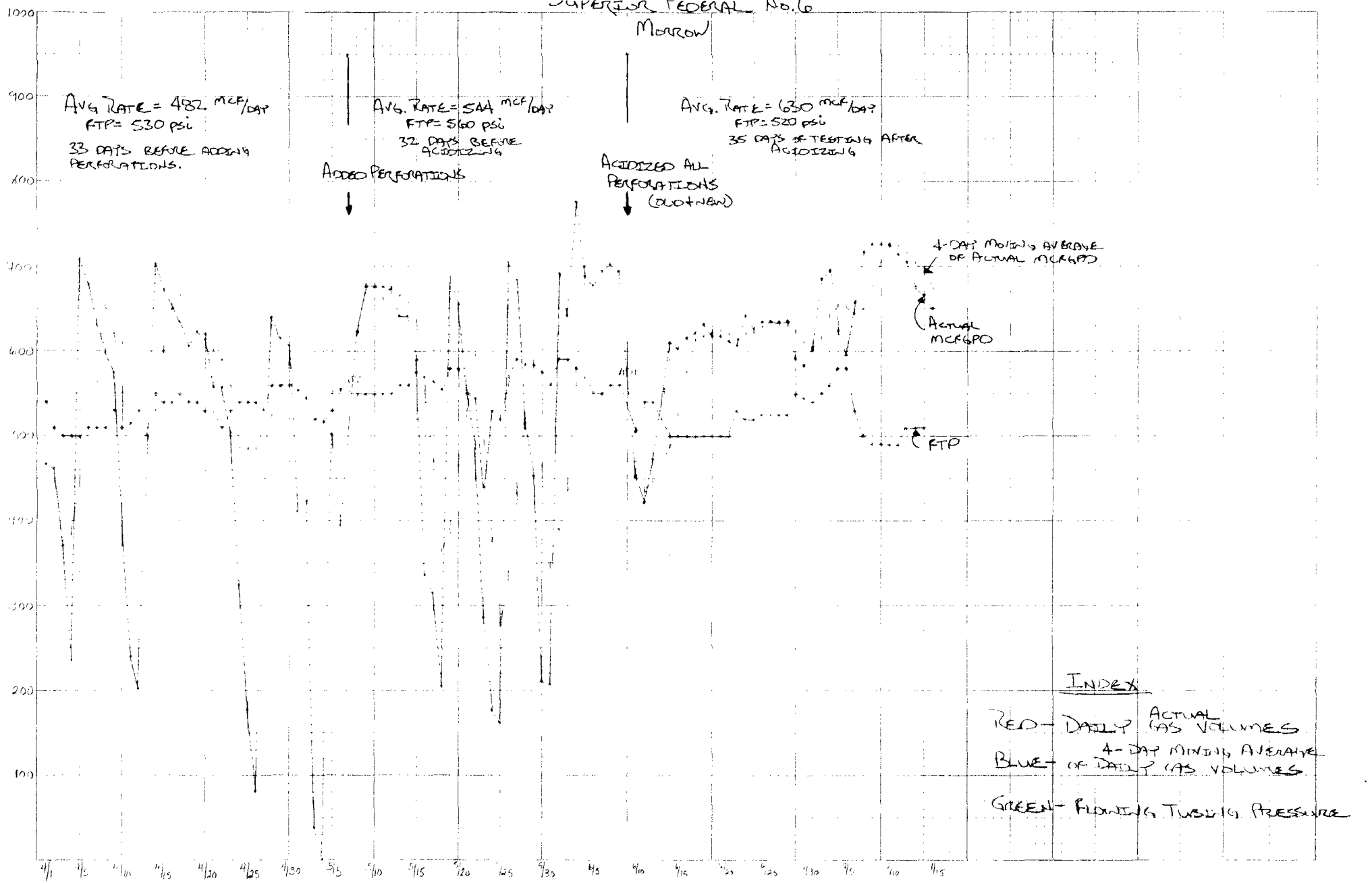
Obtained from El Paso Natural Gas Company's measurement department in El Paso, Texas. (Meter Station # 58-624-012)

Normal Mole %

Sample Date	2/28/87	9/1/87	2/16/89
CO_2	0.67	0.59	0.73
H_2S	0.0	0.0	0.0
N_2	0.40	0.56	0.38
Methane	91.01	91.29	91.01
Ethane	5.01	4.87	4.97
Propane	1.71	1.58	1.67
Iso-Butane	0.28	0.29	0.28
Norm-Butane	0.40	0.35	0.38
Iso-Pentane	0.15	0.15	0.15
Norm-Pentane	0.12	0.09	0.11
Hexane Plus	0.25	0.23	0.32
Specific Grav.	0.626	0.622	0.627
Specific Heats Ratio	1.296	1.296	1.296
BTU/CF	1102	1095	1103
Liquids(GPM)	2.236	2.131	2.236

SUPERIOR FEDERAL #6
(MORROW)





INDEX

RED – DAILY ACTUAL GAS VOLUMES

BLUE – 4-DAY MOVING AVERAGE OF DAILY GAS VOLUMES

GREEN – FLOWING TUBING PRESSURE

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

'L CONSERVATION DIVISIO"
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-107
Revised 2-1-82

APPLICATION FOR MULTIPLE COMPLETION

Operator	County	Date
The Petroleum Corporation of Delaware	Eddy	August 14, 1989
Address	**Lease**	**Well No.**
3131 Turtle Creek Blvd., Ste. 400, Dallas, TX 75219-5415		

Location of Well	Unit	Section	Township	Range
	N	6	20S	29E

All Applicants for multiple completion must complete Items 1 and 2 below.

1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation		East Burton Flat Atoka Gas Pool	East Burton Flat Morrow Gas Pool
b. Top and Bottom of Pay Section (Perforations)		10,951'-10,956'	11,006'-11,314'
c. Type of production (Oil or Gas)		Gas	Gas
d. Method of Production (Flowing or Artificial Lift)		(On compressor) Flowing	(On compressor) Flowing
e. Daily Production [X] Actual [ ] Estimated Oil Bbls. Gas MCF Water Bbls.		25 MCFD	510 MCFD

2. The following must be attached:

a. Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.

b. Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lea

c. Electrical log of the well or other acceptable log with tops and bottoms of producing zon and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signed [signature] Title Operations Engineer Date August 14, 1989

(This space for State Use)

Approved By _____ Title _____ Date _____

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

EXHIBIT "B"
Order No. R-6882

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

OPERATOR'S MONTHLY REPORT
Form C-115 - Revised 1/1/89
See Distribution and Code
Information Bottom of Page

Company or Operator: The Petroleum Corporation of Delaware
Address: 3131 Turtle Creek, #400, Dallas, Texas
Zip: 75219
For Month, Year: 07/89
Page: 1 of 1

POOL NAME (Underline) *Lease Name WELL NO. UNIT SEC. TWP RNG	WELL STATUS	INJECTION		PRODUCTION				DISPOSITION OF GAS				DISPOSITION OF OIL					
		VOLUME	PRESS.	BARRELS OIL/COND. PRODUCED	BARRELS OF WATER PRODUCED	GAS PRODUCED (MCF)	DAYS PROD.	SOLD	TRANS-PORTER	OTHER	CODE	OIL ON HAND AT BEG. OF MONTH	BARRELS TO TRANS-PORTER	TRANS-PORTER	OTHER	CODE	OIL ON HAND AT END OF MONTH
*LEASE NAME - Include State Land Lease Number or Federal Lease Number																	
East Burton Flat (Atoka) Superior Federal NM-0144698 #6 N-06-20S-29E	F			3	0	779	30	779	EPNG			0	0	KOCH			3

DISTRIBUTION
Original OCD Santa Fe
One Copy OCD Dist. Office in which lease is located
One Copy to Transporter (s)

DATE DUE
To be postmarked by 24th day of next succeeding month.

STATUS CODE
F.....FLOWING
P.....PUMPING
G.....GAS LIFT
S.....SHUT IN
T.....TEMP ABANDONED
I.....INJECTION
D.....DISCONTINUED

"OTHER" GAS DISPOSITION CODE
X.....USED OFF LEASE } DETAIL ON FORM C-111
D.....USED FOR DRILLING } DETAIL ON FORM C-111
G.....GAS LIFT
L.....LOST (MCF ESTIMATED)
E.....EXPLANATION ATTACHED
R.....REPRESSURING OR PRESSURE MAINTENANCE
V.....VENTED
U.....USED ON LEASE

"OTHER" OIL DISPOSITION CODE
C.....CIRCULATING OIL
L.....LOST
S.....SEDIMENTATION (B S & W)
E.....EXPLANATION ATTACHED
T.....THEFT

I HEREBY CERTIFY THAT THE INFORMATION GIVEN IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE

Ronald P. Henderson — TYPED NAME
(214) 528-5898 — PHONE NUMBER
Operations Engineer — POSITION
Ronald P. Henderson — SIGNATURE
8/14/89 — DATE