

**R-35-E**



Before The  
Oil Conservation Division  
Santa Fe, New Mexico  
Case Nos. 11163 & 11164  
Marathon Oil Company Exhibit No.  
December 15, 1994

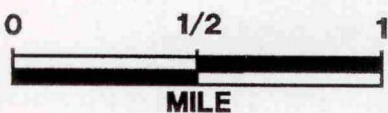
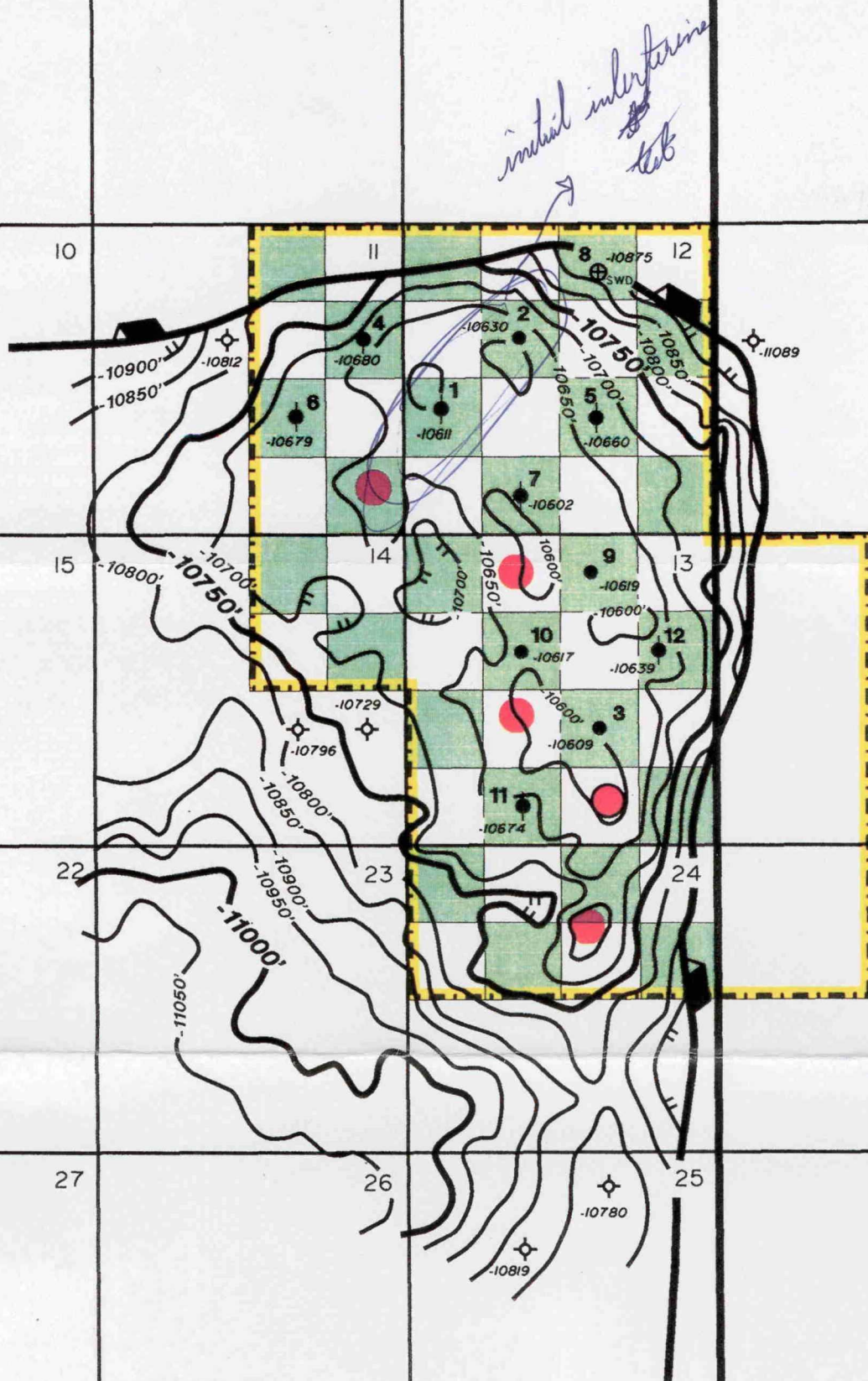
|  |                             |
|--|-----------------------------|
| MARATHON<br>OIL COMPANY  | MID-CONTINENT<br>REGION     |
| <p><b>LEA UNIT</b></p> <p>LEA COUNTY, NEW MEXICO</p> <p><b><i>TOP OF DEVONIAN<br/>STRUCTURE MAP</i></b></p> <p><b>C.I. = 50'</b></p> |                             |
| ORIGINAL SCALE: 1" = 2000'   | DATE: 8/94                  |
| AUTHOR: D.REBENSTORF, A.PARSONS  | REVISED: 12/94              |
| DRAFTED BY:  | PROJECT:                    |
|  | FILE LOC.: LEA1294.BMP OPER |



R-34-E

R-35-E

T  
20  
S



POTENTIAL DEVONIAN LOCATIONS

NOTE: ONLY WELLS PENETRATING  
DEVONIAN SHOWN

LEGAL LOCATIONS UNDER  
CURRENT FIELD RULES

Before The  
Oil Conservation Division  
Santa Fe, New Mexico  
Case Nos. 11163 & 11164  
Marathon Oil Company Exhibit No. 2  
December 15, 1994

MARATHON  
OIL COMPANY

MID-CONTINENT  
REGION

LEA UNIT

LEA COUNTY, NEW MEXICO

TOP OF DEVONIAN  
STRUCTURE MAP

C.I. = 50'

ORIGINAL SCALE: 1" = 2000'

DATE: 8/94

AUTHOR: D.REBENSTORF, A.PARSONS

REVISED: 12/94

DRAFTED BY:

PROJECT:

FILE LOC.: LEA1294.BMP OPER

SW

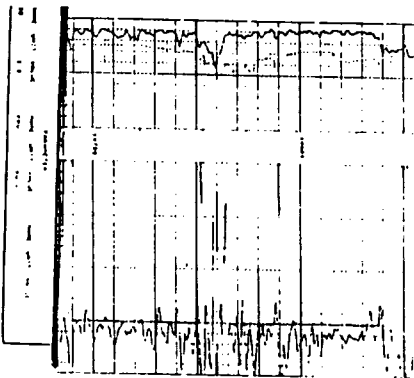
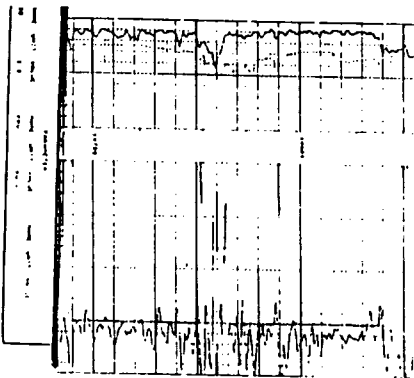
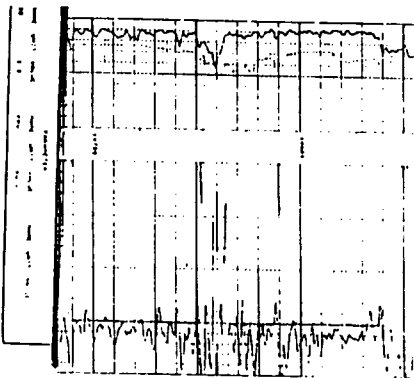
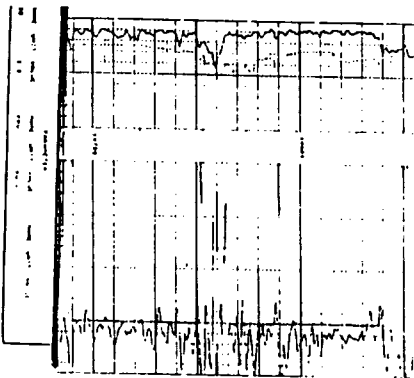
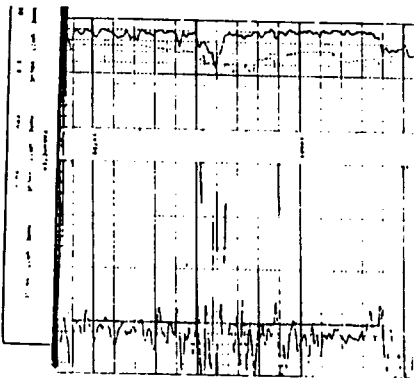
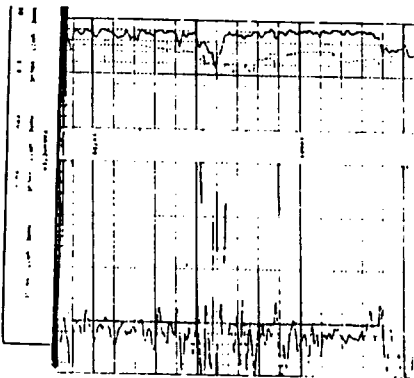
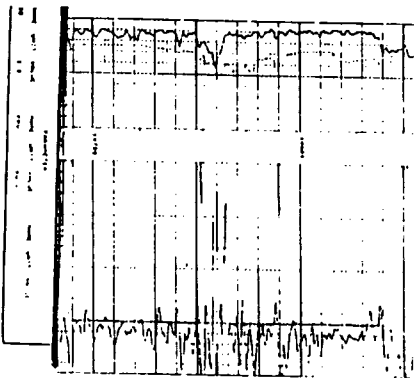
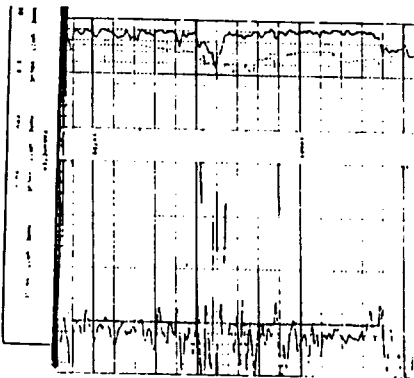
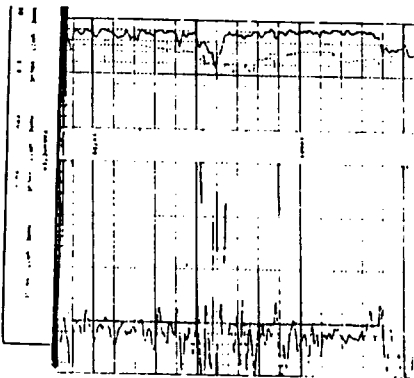
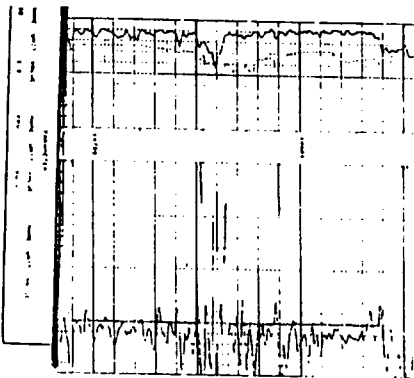
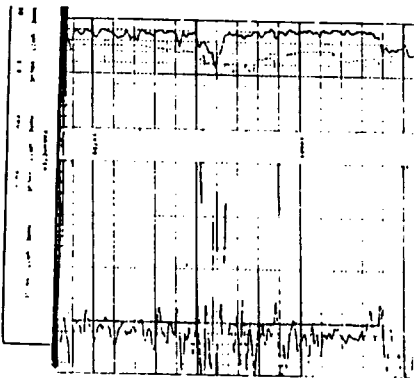
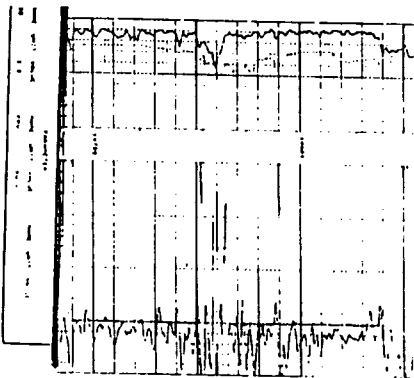
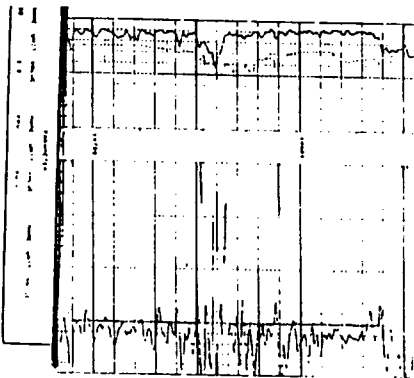
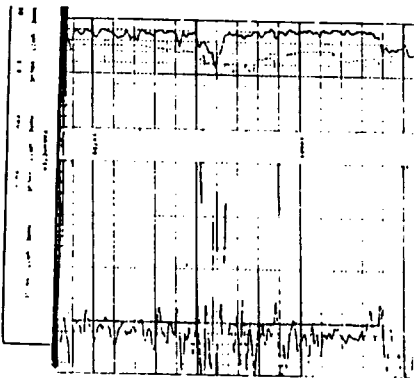
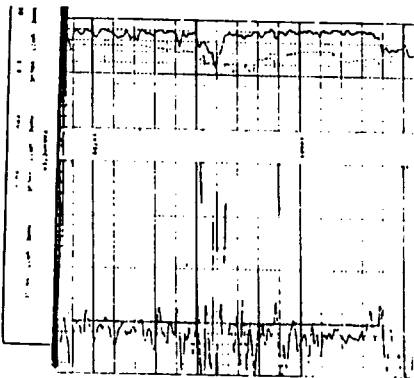
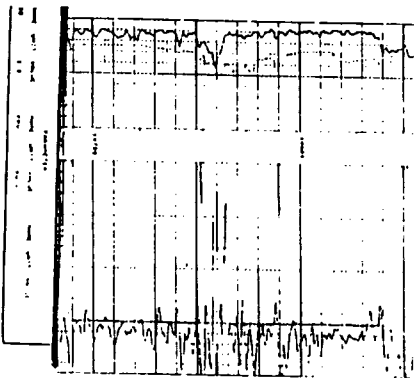
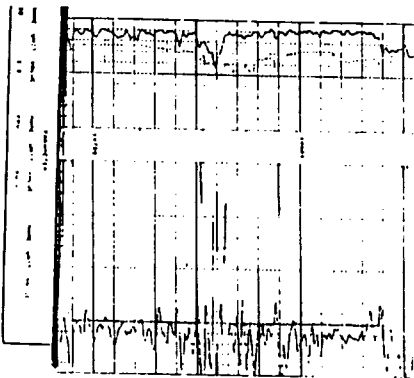
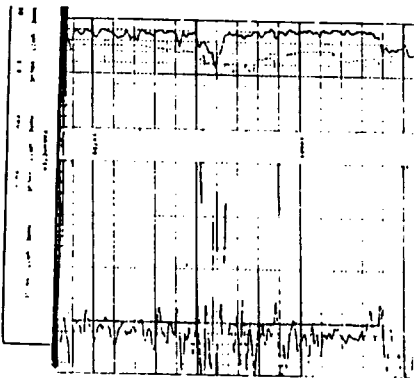
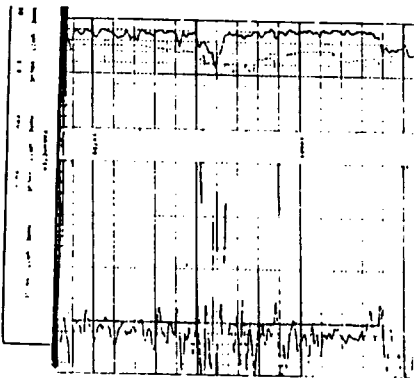
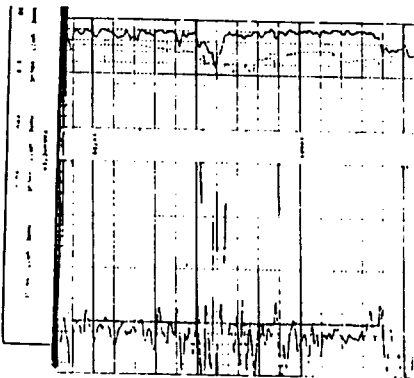
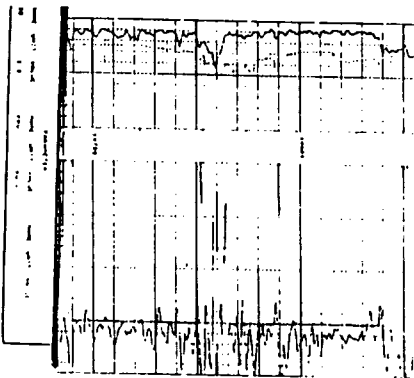
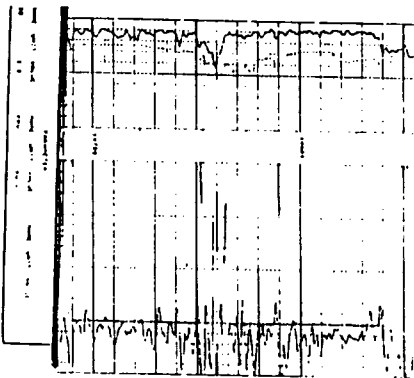
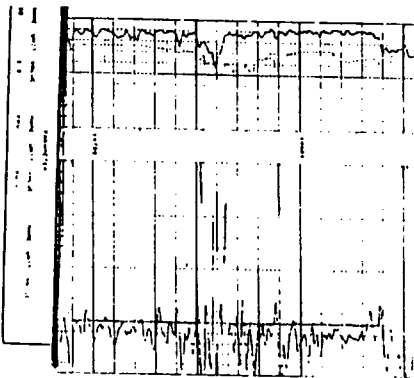
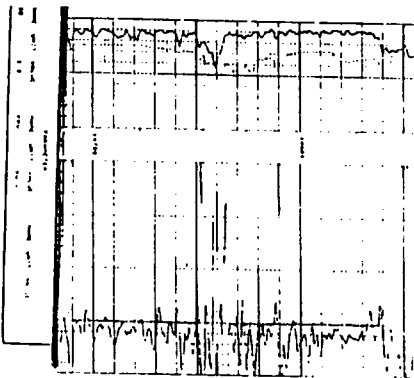
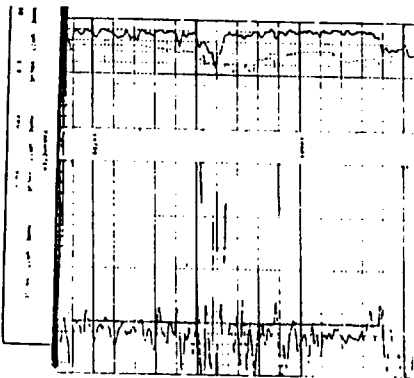
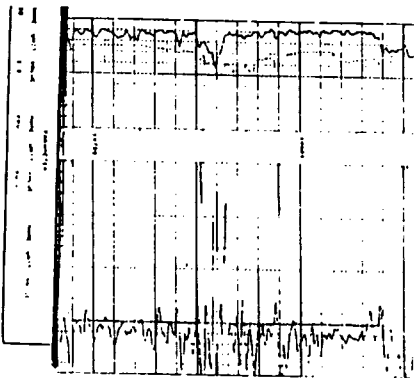
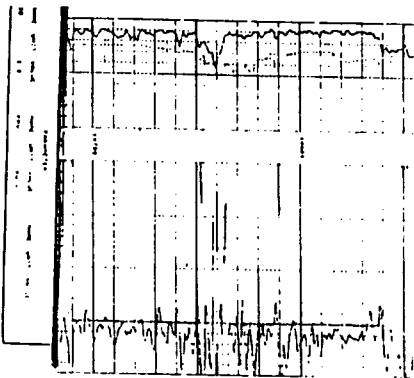
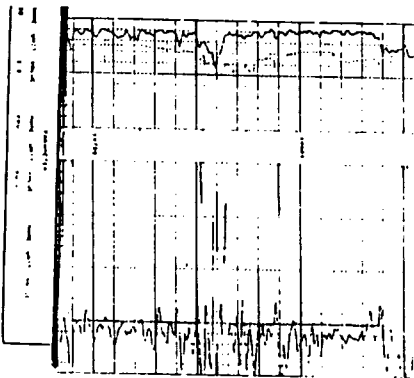
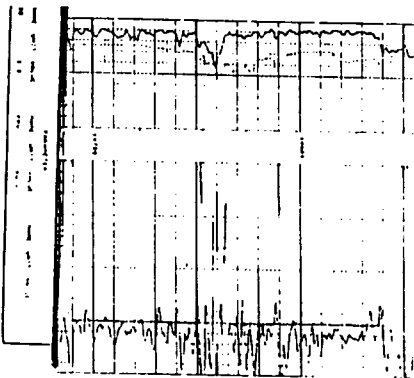
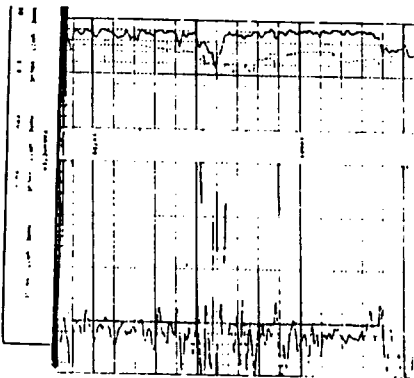
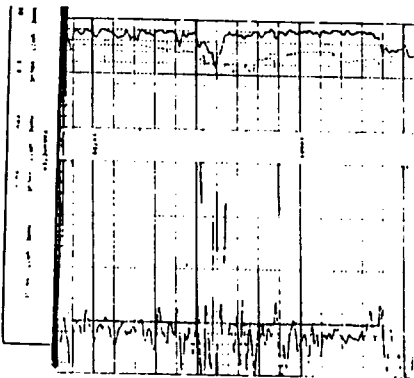
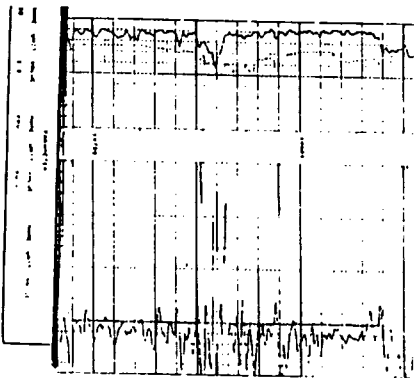
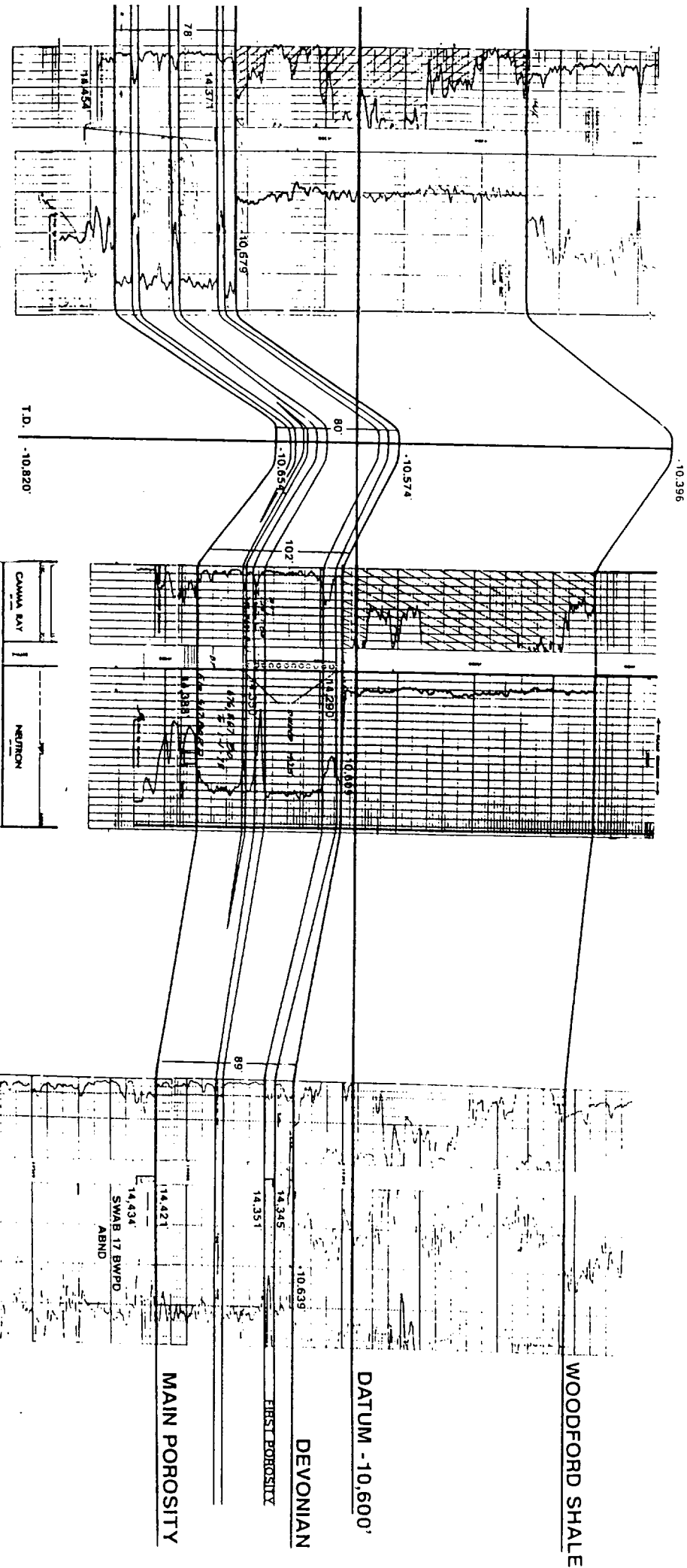
MARATHON  
LEA UNIT # 11  
N-13-20S-34E  
K.B. 3679'

MARATHON  
LEA UNIT # 17  
PROJECTED

MARATHON  
LEA UNIT # 3  
J-13-20S-34E  
K.B. 3677'

MARATHON  
LEA DEEP UNIT # 12  
H-13-20S-34E  
K.B. 3693'

NE



## LEA DEVONIAN POOL

### Background

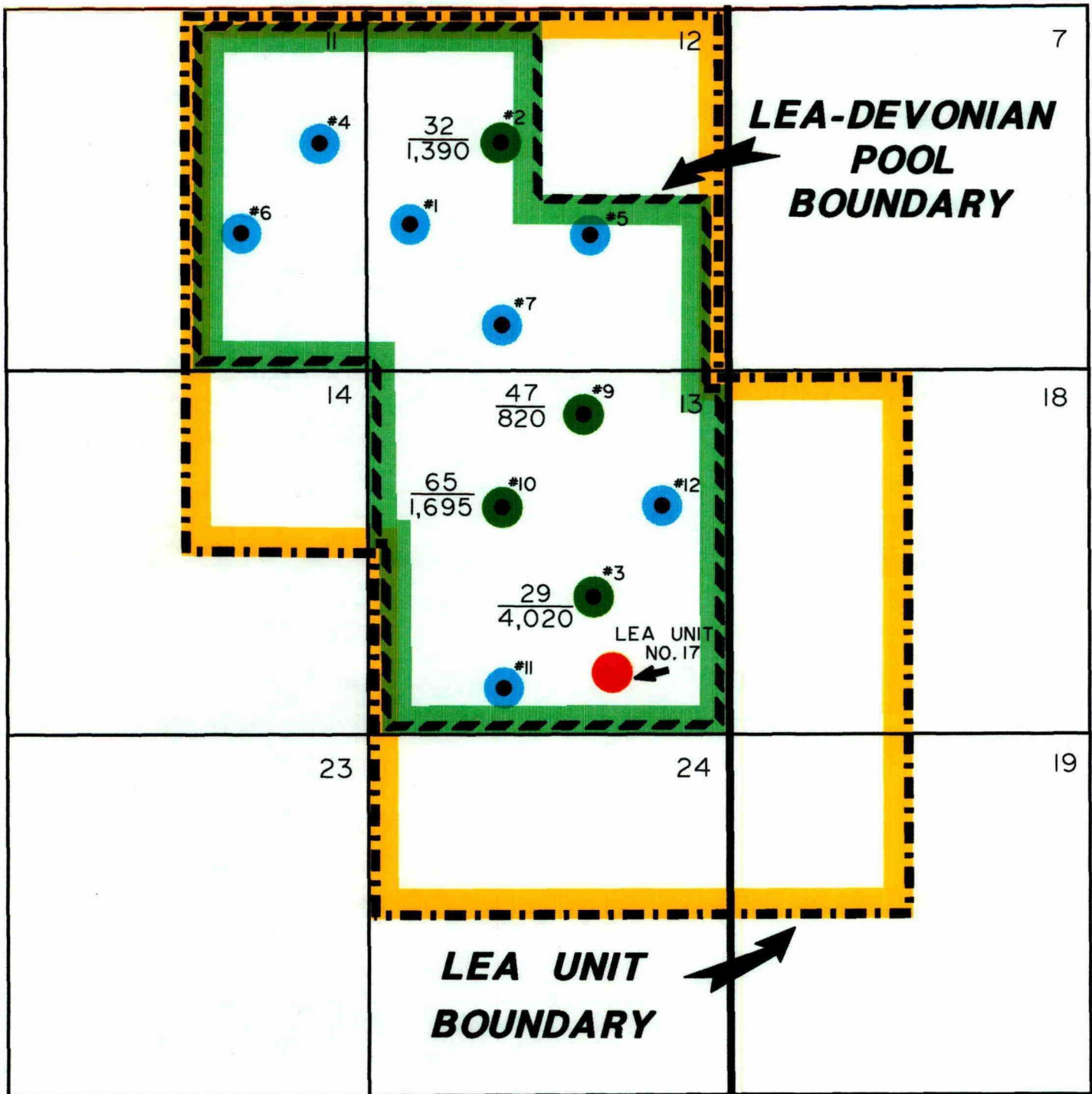
|   |   |
|---|---|
| Discovery:                                    | July, 1960                                    |
| Current Status:                               | 4 Active Producers<br>7 SI or Abandoned Wells |
| Current Production:                           | 173 BOPD<br>185 MCFPD<br>7,925 BWPD           |
| Average Well Depth:                           | 14,400 Feet                                   |
| Discovery Pressure (7/60):                    | 6,065 PSIA @ -10,744' ss                      |
| Current Pressure:                             | 5,280 PSIA @ -10,744' ss                      |
| Bubble Point Pressure:                        | 567 PSIA                                      |
| Solution GOR:                                 | 275 SCF/STB                                   |
| Average Porosity:                             | 6.50%   |
| Average Permeability:                         | 52.3 md                                       |
| Average Water Saturation:                     | 34.80%  |
| Drive Mechanism:                              | Bottom Water Drive                            |
| Estimated Orginal O/W Contact:                | -10,845' ss                                   |
| Orginal Oil in Place:                         | 24,842 MSTBO                                  |
| Primary Recovery:<br>(Decline Curve Analysis) | 8,282 MSTBO                                   |
| Percent OOIP:                                 | 33.70%  |

Before The  
Oil Conservation Division  
Santa Fe, New Mexico  
Case No. [REDACTED]  
Case No. 11184  
Marathon Oil Company Exhibit No. 4  
December 15, 1994



R-34-E

R-35-E



T  
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S



Before The  
Oil Conservation Division  
Santa Fe, New Mexico  
Case Nos. 11163 & 11164  
Marathon Oil Company Exhibit No. 5  
December 15, 1994

MARATHON OIL COMPANY  
MID-CONTINENT REGION

**LEA UNIT**

LEA COUNTY, NEW MEXICO

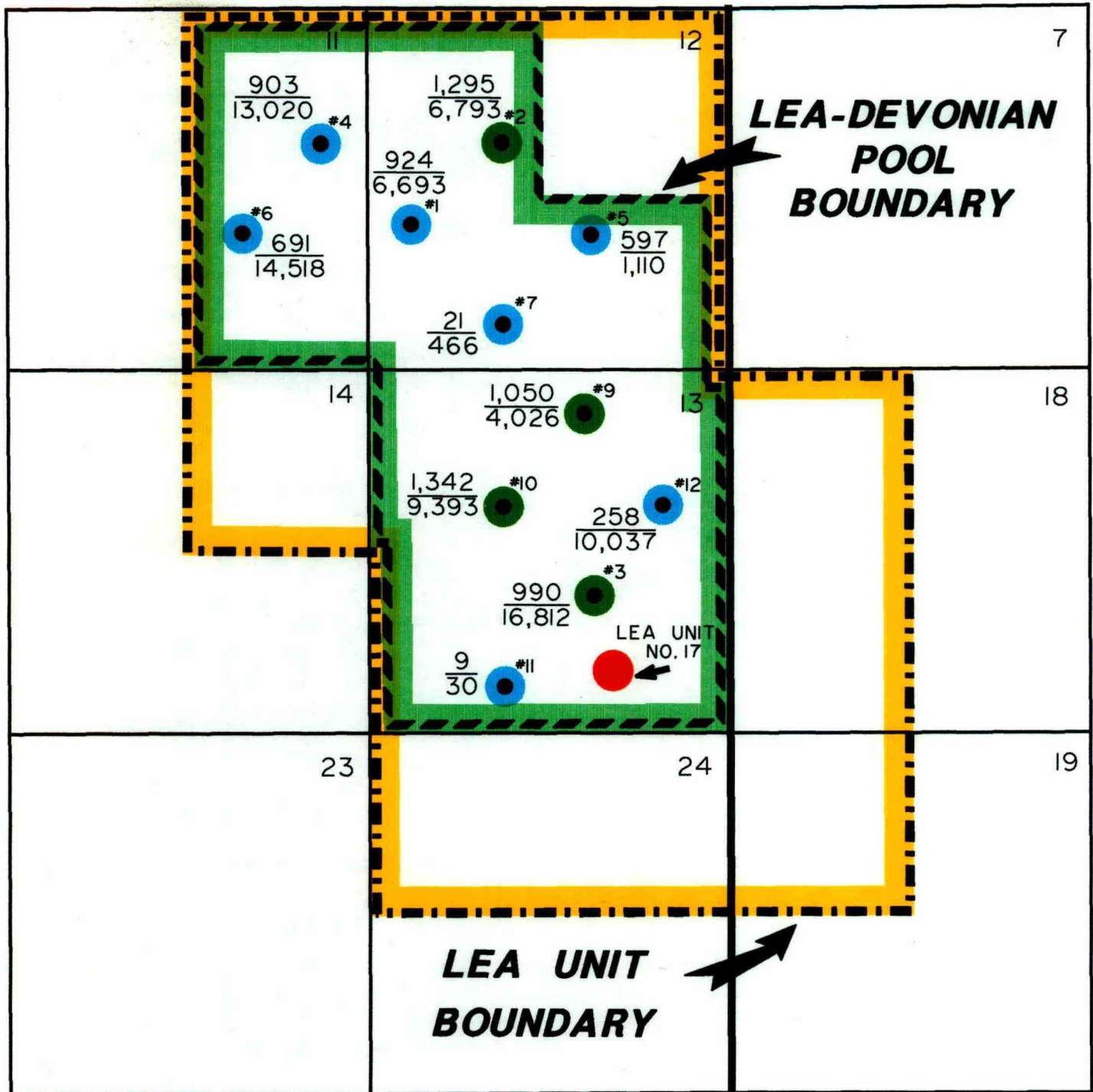
AVERAGE DAILY PROD.

**LEA-DEVONIAN  
POOL**

- PROPOSED LOCATION
  - ACTIVE DEVONIAN PRODUCER
  - HISTORIC DEVONIAN PRODUCER
- 1,050 BOPD  
4,026 BOPD

R-34-E

R-35-E

T  
20  
S

Before The  
Oil Conservation Division  
Santa Fe, New Mexico  
Case Nos. 11163 & 11164  
Marathon Oil Company Exhibit No. 6  
December 15, 1994

MARATHON OIL COMPANY  
MID-CONTINENT REGION

**LEA UNIT**

LEA COUNTY, NEW MEXICO

**CUMULATIVE PRODUCTION**

**LEA-DEVONIAN  
POOL**

- PROPOSED LOCATION
- ACTIVE DEVONIAN PRODUCER
- HISTORIC DEVONIAN PRODUCER

1,050 CUM MBO  
4,026 CUM MBW

# WELL PERFORMANCE

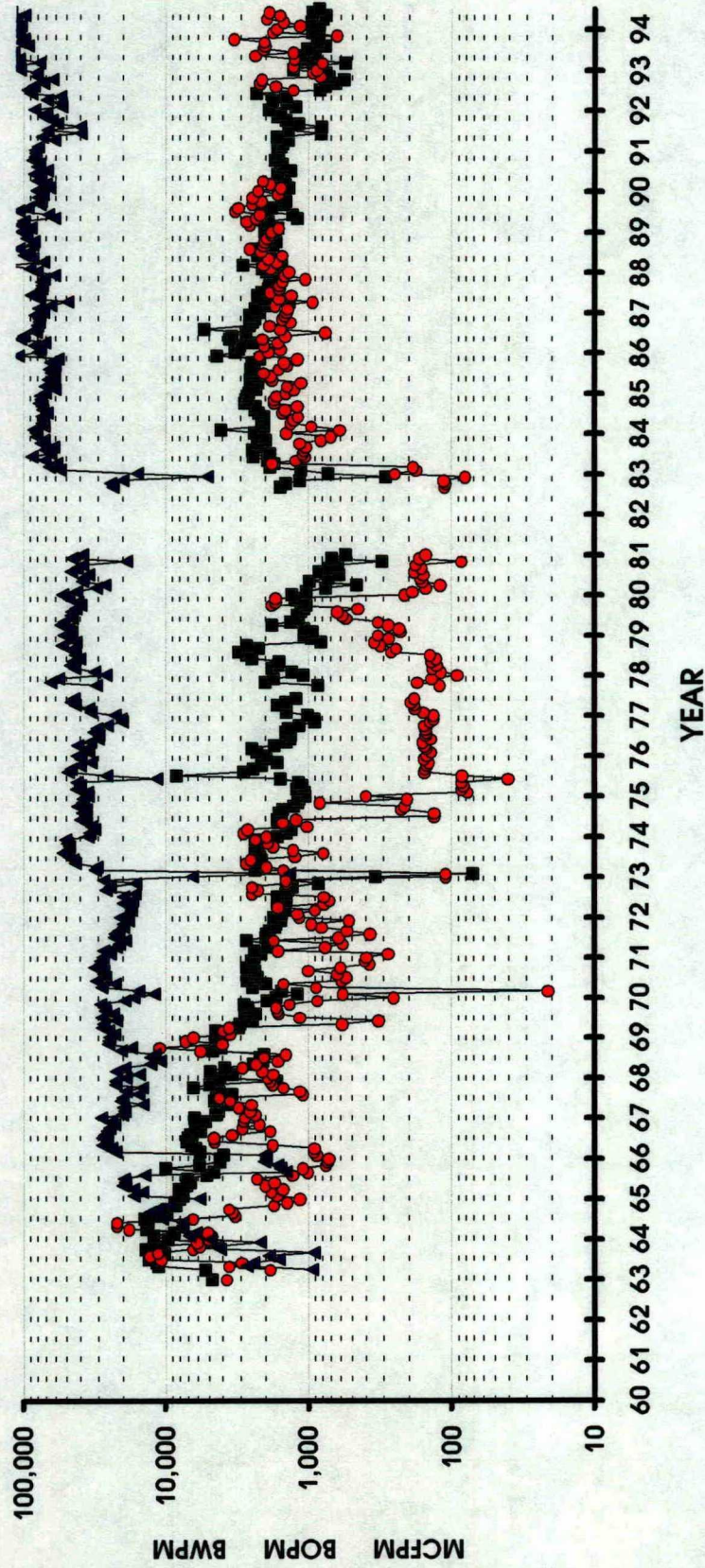
LEA UNIT DEVONIAN

LEA COUNTY, NEW MEXICO

| WELL NAME       | WATER-FREE<br>PRODUCTION DATES | **CUMULATIVE** |              |               | **REMAINING** |             |             | **EUR**      |              |
|-----------------|--------------------------------|----------------|--------------|---------------|---------------|-------------|-------------|--------------|--------------|
|                 |                                | <u>MBO</u>     | <u>MMCF</u>  | <u>MBW</u>    | <u>MBO</u>    | <u>MMCF</u> | <u>MMCF</u> | <u>MBO</u>   | <u>MMCF</u>  |
| LEA UNIT NO. 1  | JUL 60 to JUL 61 (12 MOS.)     | 924            | 294          | 6,693         | 0             | 0           | 0           | 924          | 294          |
| LEA UNIT NO. 2  | MAR 61 to MAR 62 (12 MOS.)     | 1,295          | 622          | 6,793         | 21            | 10          | 10          | 1,316        | 632          |
| LEA UNIT NO. 3  | JAN 63 to APR 63 ( 3 MOS.)     | 990            | 565          | 16,812        | 17            | 10          | 10          | 1,007        | 575          |
| LEA UNIT NO. 4  | APR 61 to JUL 61 ( 4 MOS.)     | 903            | 376          | 13,020        | 0             | 0           | 0           | 903          | 376          |
| LEA UNIT NO. 5  | JUN 61 to OCT 63 (29 MOS.)     | 597            | 160          | 1,110         | 0             | 0           | 0           | 597          | 160          |
| LEA UNIT NO. 6  | DEC 61 to DEC 62 (12 MOS.)     | 691            | 373          | 14,518        | 0             | 0           | 0           | 691          | 373          |
| LEA UNIT NO. 7  | JAN 79 at 96% WATER CUT        | 21             | 7            | 466           | 0             | 0           | 0           | 21           | 7            |
| LEA UNIT NO. 9  | JUL 62 to MAR 63 ( 9 MOS.)     | 1,050          | 423          | 4,026         | 74            | 30          | 30          | 1,124        | 453          |
| LEA UNIT NO. 10 | JUN 63 to JAN 64 ( 7 MOS.)     | 1,342          | 514          | 9,393         | 93            | 36          | 36          | 1,435        | 550          |
| LEA UNIT NO. 11 | NOV 63 to JAN 64 ( 3 MOS.)     | 9              | 12           | 30            | 0             | 0           | 0           | 9            | 12           |
| LEA UNIT NO. 12 | MAR 8 at 44% WATER CUT         | 258            | 249          | 10,037        | 0             | 0           | 0           | 258          | 249          |
| <b>TOTAL</b>    |                                | <b>8,080</b>   | <b>3,595</b> | <b>82,898</b> | <b>205</b>    | <b>85</b>   | <b>85</b>   | <b>8,285</b> | <b>3,680</b> |



# LEA UNIT NO. 3 Devonian Production Plot



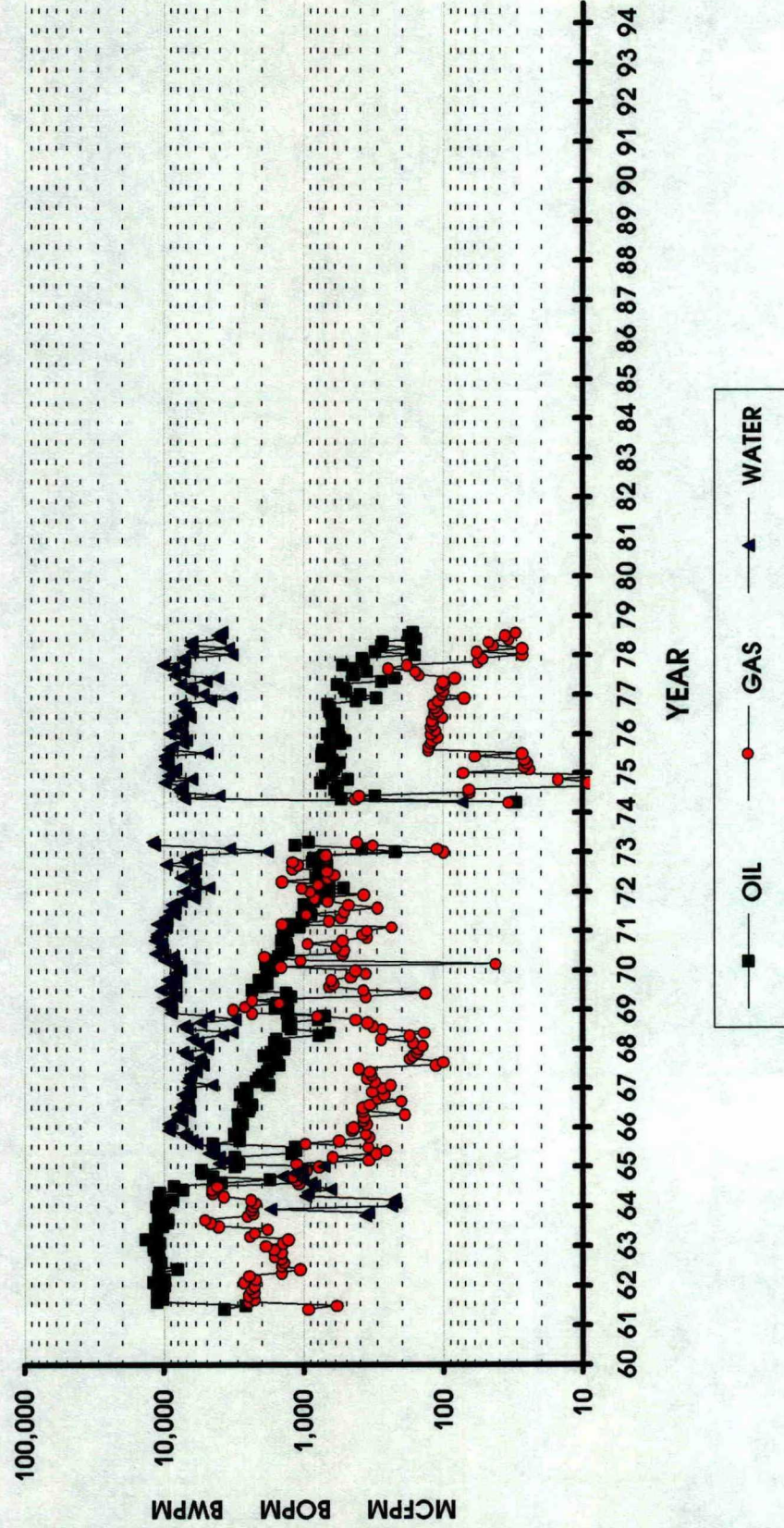
CUM - 990 MBO  
565 MMCF  
16,812 BMW

12/13/94

Before The  
Oil Conservation Division  
Santa Fe, New Mexico  
Case Nos. 11163 & 11164  
Marathon Oil Company Exhibit No. 8  
December 15, 1994



# LEA UNIT NO. 5 Devonian Production Plot



CUM - 597 MBO  
160 MMCF  
1,110 MBW

12/13/94

Before The  
Oil Conservation Division  
Santa Fe, New Mexico  
Case Nos. ~~11163~~ & 11164  
Marathon Oil Company Exhibit No. 9  
December 15, 1994

BEFORE EXAMINER STOGNER

OIL CONSERVATION DIVISION

*Marathon* EXHIBIT NO. 10

CASE NO. 11163-11164

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

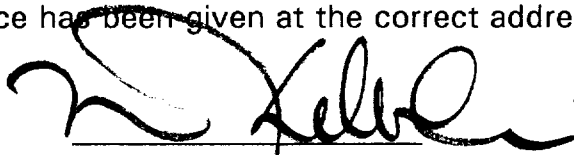
IN THE MATTER OF THE HEARING CALLED  
BY THE OIL CONSERVATION DIVISION  
FOR THE PURPOSE OF CONSIDERING:

**CASE NO. 11163 and 11164**

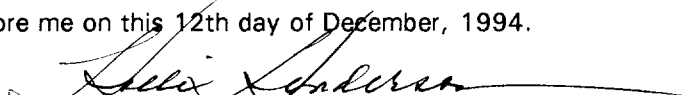
Application of MARATHON OIL  
COMPANY for an Unorthodox Oil Well  
Location and Simultaneous Dedication  
Lea County, New Mexico.

**CERTIFICATE OF MAILING  
AND  
COMPLIANCE WITH ORDER R-8054**

W. THOMAS KELLAHIN, attorney in fact and authorized representative of MARATHON OIL COMPANY states that the notice provisions of Division Rule 1207 (Order R-8054) have been complied with, that Applicant has caused to be conducted a good faith diligent effort to find the correct addresses of all interested parties entitled to receive notice, that on the 18th day of November, 1994 I caused to be sent, by certified mail return receipt requested, notice of this hearing and a copy of the application for the referenced case along with the cover letter, at least twenty days prior to the hearing set for December 15, 1994, to the parties shown in the application as evidenced by the attached copies of receipt cards, and that pursuant to Division Rule 1207, notice has been given at the correct addresses provided by such rule.

  
W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me on this 12th day of December, 1994.

  
Notary Public

My Commission Expires: June 15th, 1998



Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write Marathon/Lea-Devonian
- The date November 18, 1994

Article Addressed to:

Ross Family Trust  
PO Box 86  
Midland, Texas 79702

4a. Article Number  
321 036 968

4b. Service Type  
☒ Registered ☐ Insured  
☐ Certified ☐ COD  
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

5. Signature (Addressee)  
Vee A. Ross

6. Signature (Agent)

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

P 321 036 968



**Receipt for Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

Ross Family Trust  
PO Box 86  
Midland, Texas 79702

|   |  |
|---|--|
| Special Delivery Fee  |  |
| Restricted Delivery Fee                                       |  |
| Return Receipt Showing to Whom & Date Delivered               |  |
| Return Receipt Showing to Whom, Date, and Addressee's Address |  |
| TOTAL Postage   |  |

June 1991

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

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- Complete items 3, and 4a & b.
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- Write Marathon/Lea-Devonian
- The date November 18, 1994

Article Addressed to:

DEVON ENERGY CORPORATION  
1500 Mid-America Tower  
20 North Broadway  
Oklahoma City, OK 73102-8260  
Attn: Steve Blair

4a. Article Number  
321 036 971

4b. Service Type  
☒ Registered ☐ Insured  
☐ Certified ☐ COD  
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery

5. Signature (Addressee)

6. Signature (Agent)  
S. Reynolds

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

P 321 036 971



**Receipt for Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

DEVON ENERGY CORPORATION  
1500 Mid-America Tower  
20 North Broadway  
Oklahoma City, OK 73102-8260  
Attn: Steve Blair

|                      |  |
|----------------------|--|
| Special Delivery Fee |  |
|----------------------|--|

P 321 036 969



**Receipt for Certified Mail**

No Insurance Coverage Provided  
Do not use for International Mail  
(See Reverse)

PENNZOIL PETROLEUM COMPANY  
POB 2967  
Houston, TX 77252-2967  
Attn: Wayne Wisniewski

|   |    |
|---|----|
| Special Delivery Fee  |    |
| Restricted Delivery Fee                                       |    |
| Return Receipt Showing to Whom & Date Delivered               |    |
| Return Receipt Showing to Whom, Date, and Addressee's Address |    |
| TOTAL Postage & Fees  | \$ |
| Postmark or Date  |    |

800, June 1991

Marathon/Lea-Devonian  
November 18, 1994

Is your RETURN ADDRESS completed on the reverse side?

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- Write Marathon/Lea-Devonian
- The date November 18, 1994

Article Addressed to:

PENNZOIL PETROLEUM COMPANY  
POB 2967  
Houston, TX 77252-2967  
Attn: Wayne Wisniewski

4a. Article Number  
321 036 969

4b. Service Type  
☒ Registered ☐ Insured  
☐ Certified ☐ COD  
☐ Express Mail ☒ Return Receipt for Merchandise

7. Date of Delivery  
NOV 21 1994

5. Signature (Addressee)

6. Signature (Agent)  
L. Schube

8. Addressee's Address (Only if requested and fee is paid)

PS Form 3811, December 1991 ★U.S. GPO: 1993-352-714 DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

# DOMESTIC RETURN RECEIPT