

YATES ENERGY **Exhibit No.** 1
Marathon
Case No. 10115

YATES ENERGY
Marathon
Case No. 10

HEYCO 3
HEYCO 2

X¹
X²
X³

MARATHON
PENNZOIL
HUDSON & HUDSON
WAINOCO 10

MARATHON 10
HEYCO 11
HEYCO 12

10 3 1 3 5 2 5

2 1 9 7 4 2

MARATHON/
HUDSON & HUDSON 4 5

B-2 4 5
B-1 6 8

2-AJ 1-AJ 2

1-Y

MARATHON 15
HUDSON & HUDSON 15

READ & STEVENS 14

1 1

ARCO 13

SO. ROYALTY 13

HUDSON & HUDSON 22
MARATHON 22

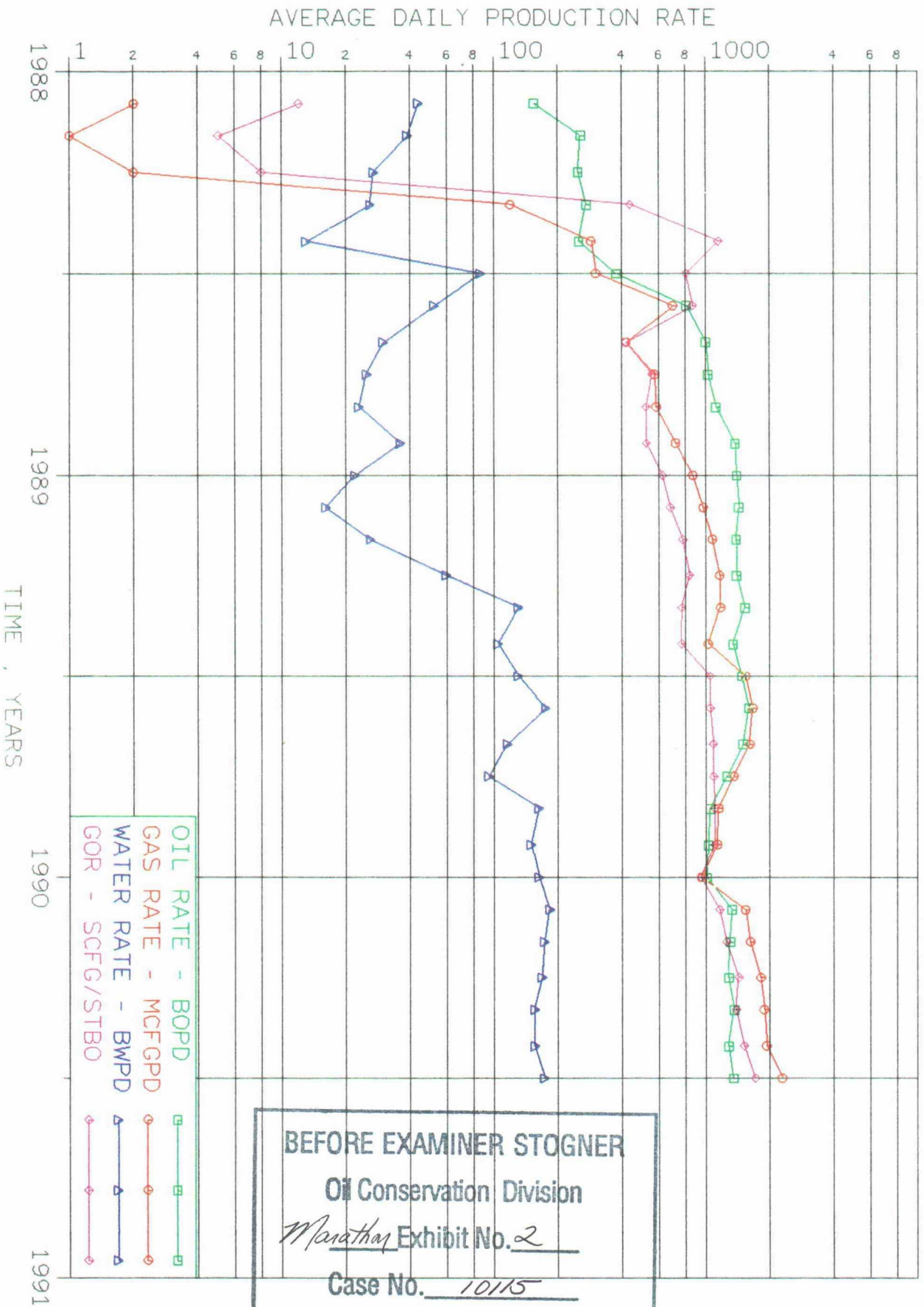
ARCO 23

SIETE 24

X¹

10-90

TAMANO (BONE SPRING) FIELD MARATHON AND HEYCO OPERATED PROPERTIES

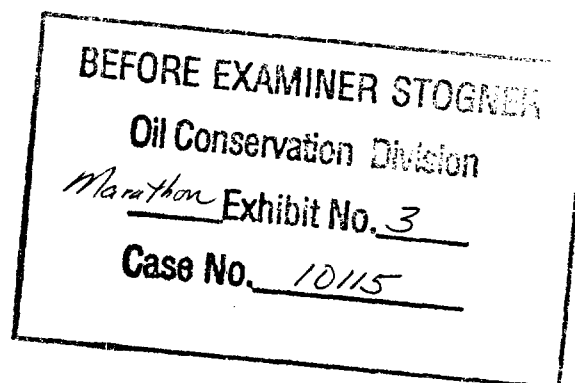


SECOND BONE SPRING CARBONATE PRODUCERS
TAMANO (BONE SPRING) FIELD
EDDY COUNTY, NEW MEXICO
OCTOBER 23, 1990

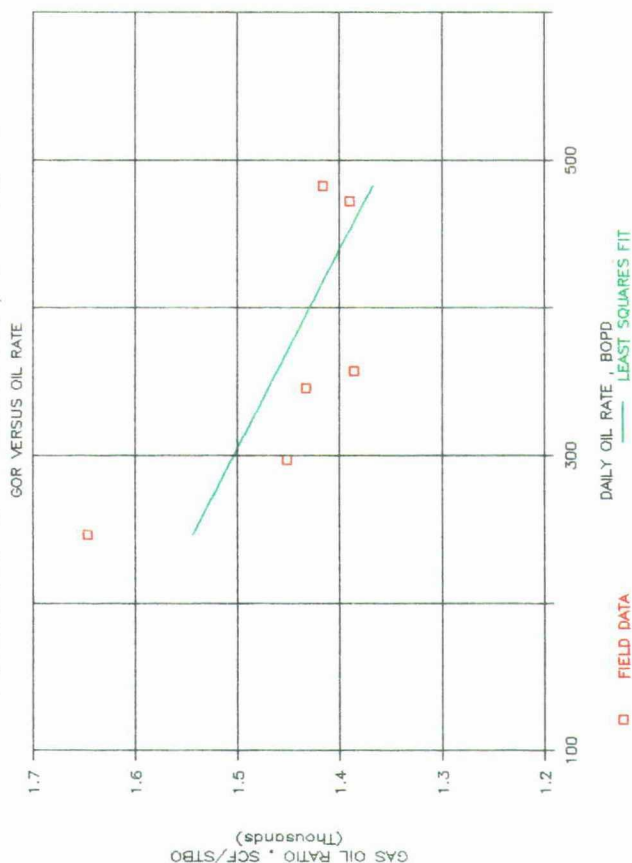
DAILY AVERAGE PRODUCTION RATE

OPERATOR	WELL NAME	MONTH	OIL BOPD	GAS MCFPD	WATER BWPD	GOR SCF/STBO
Marathon	Johnson "B" Federal A/C No. 3	July	8	0	3	NA
Marathon	Johnson "B" Federal A/C 1 No. 7	July	207	281	0	1,357
Marathon	Johnson "B" Federal A/C 1 No. 9*	July	221	349	7	1,579
Marathon	Johnson "B" Federal No. 4	July	176	361	0	2,051
Marathon	Johnson "B" Federal No. 5	July	17	45	0	2,647
Marathon	Johnson "B" Federal No. 6*	July	245	456	0	1,861
Marathon	Johnson "B" Federal No. 8	July	194	254	116	1,309
Marathon	Marathon Oil Company-Shugart "B" No. 1	July	25	48	3	1,920
Marathon	Marathon Oil Company-Shugart "B" No. 2*	July	245	204	0	833
Marathon	Stetco "10" Federal No. 1**	NA	280	276	0	986
<hr/>						
HEYCO	Hudson "11" Federal No. 2	June	8	2	7	200
HEYCO	Hudson "11" Federal No. 3	June	38	176	22	4,687
HEYCO	Hudson "11" Federal No. 4	June	60	221	0	3,681
HEYCO	AJ "11" Federal No. 1	June	35	93	0	2,687
HEYCO	AJ "11" Federal No. 2	June	35	86	20	2,479

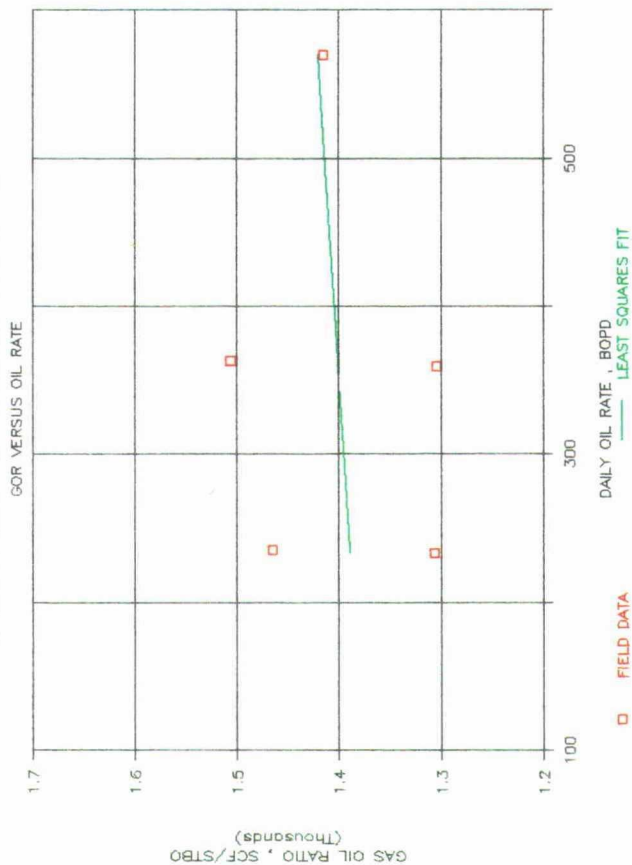
* - TOP ALLOWABLE PRODUCERS
** - POTENTIAL TEST 8/22/90



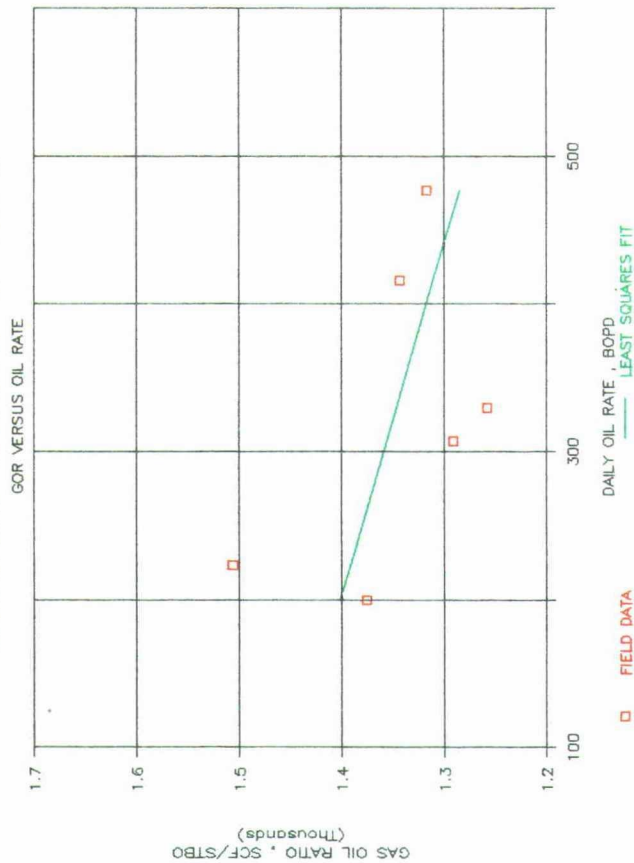
JOHNSON "B" FEDERAL A/C 1 NO. 9



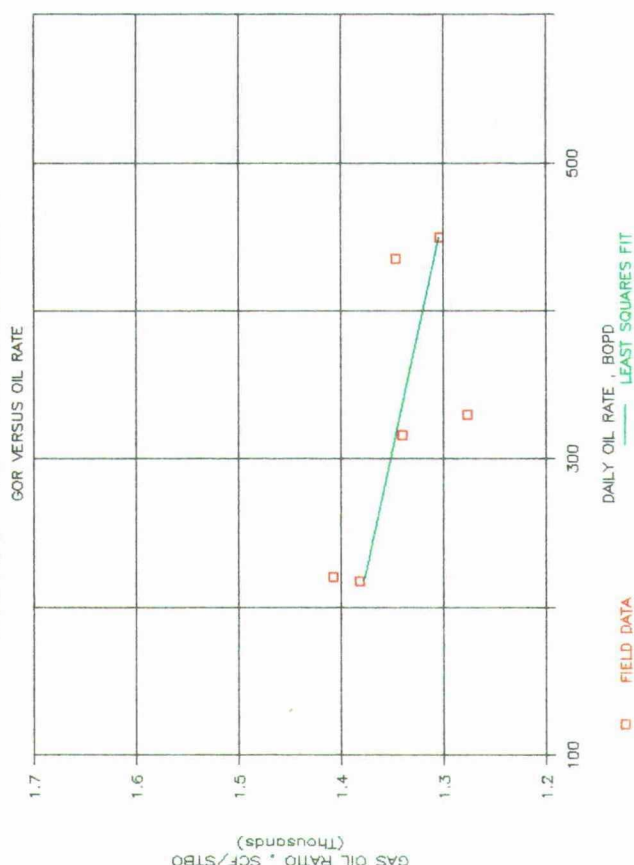
JOHNSON "B" FEDERAL NO. 6



MARATHON-SHUGART "B" NO. 2



STETCO "10" FEDERAL NO. 1



BEFORE EXAMINER STOGNER

Oil Conservation Division

Marathon Exhibit No. 4

Case No. 10115

BEFORE EXAMINER STOOD

Oil Conservation Division

Marathon Exhibit No. 5

Case No. 10115

STEP RATE PRODUCTION RESULTS

TOP ALLOWABLE PRODUCERS

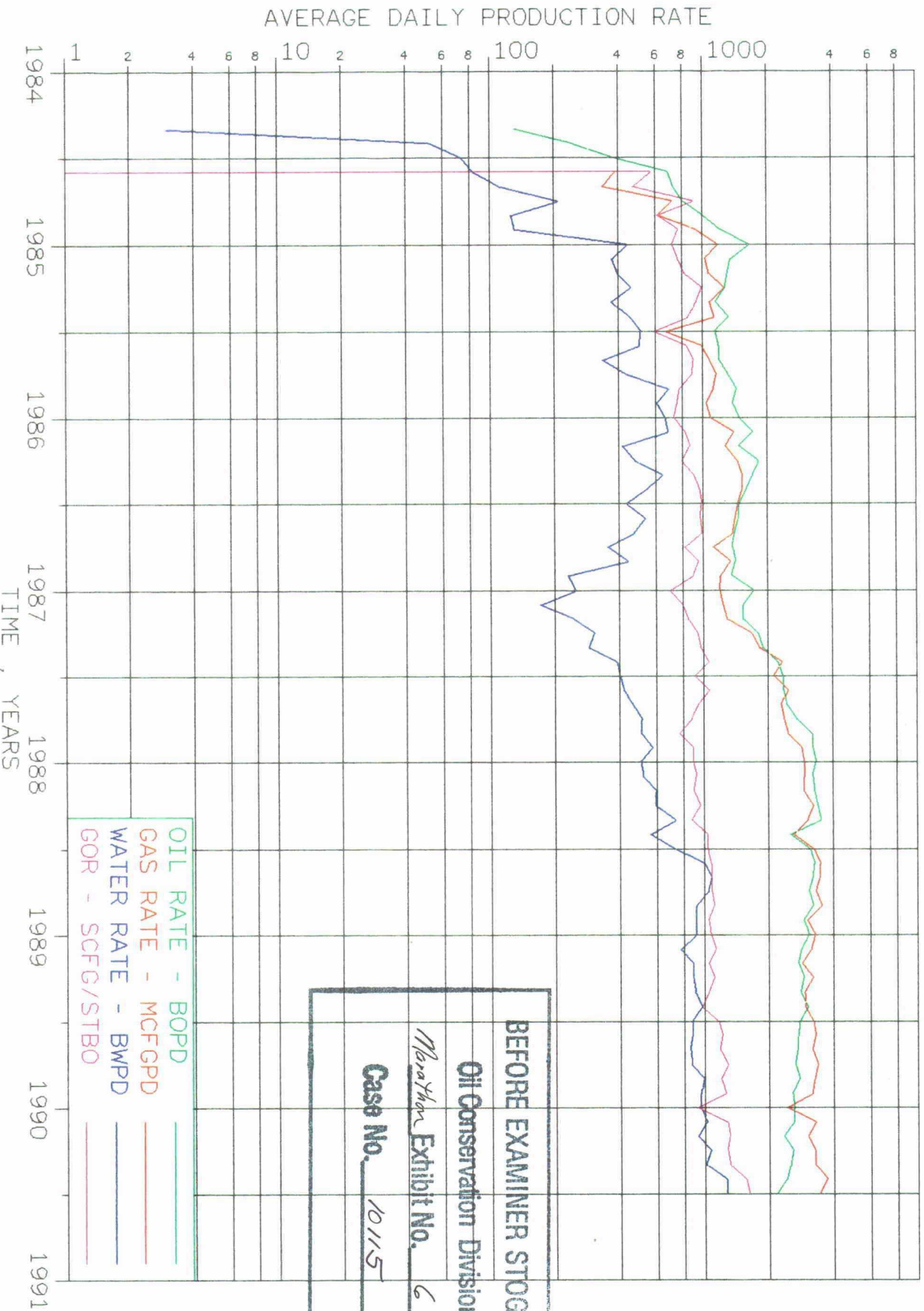
TAMANO (BONE SPRING) FIELD

SECTION NOS. 10 AND 11, T-18-S, R-31-E

EDDY COUNTY, NEW MEXICO

WELL	DATE	BOPD	MCFCPD	BWPD	GOR	FTP
MOC-Shugart "B" No. 2	9-14-90	223	336	0	1,507	525
	9-15-90	199	274	0	1,376	550
	9-16-90	307	397	0	1,292	500
	9-17-90	330	415	0	1,258	500
	9-18-90	416	559	0	1,344	490
	9-19-90	477	629	0	1,318	490
Stetco "10" Federal No. 1	9-14-90	220	311	0	1,409	440
	9-15-90	217	300	0	1,382	445
	9-16-90	330	422	0	1,277	410
	9-17-90	316	424	0	1,277	410
	9-18-90	450	587	0	1,304	430
	9-19-90	435	587	0	1,347	430
Johnson "B" Federal A/C 1 No. 9	9-14-90	297	431	0	1,452	720
	9-15-90	247	407	0	1,648	720
	9-16-90	357	496	0	1,411	700
	9-17-90	346	496	0	1,387	700
	9-18-90	472	657	0	1,416	625
	9-19-90	482	684	0	1,390	625
Johnson "B" Federal No. 6	9-14-90	236	346	0	1,466	480
	9-15-90	234	306	0	1,308	465
	9-16-90	360	470	0	1,306	430
	9-17-90	363	547	0	1,507	465
	9-18-90	570	807	0	1,416	465

MESCALERO ESCARPE (BONE SPRING) FIELDWIDE TOTAL



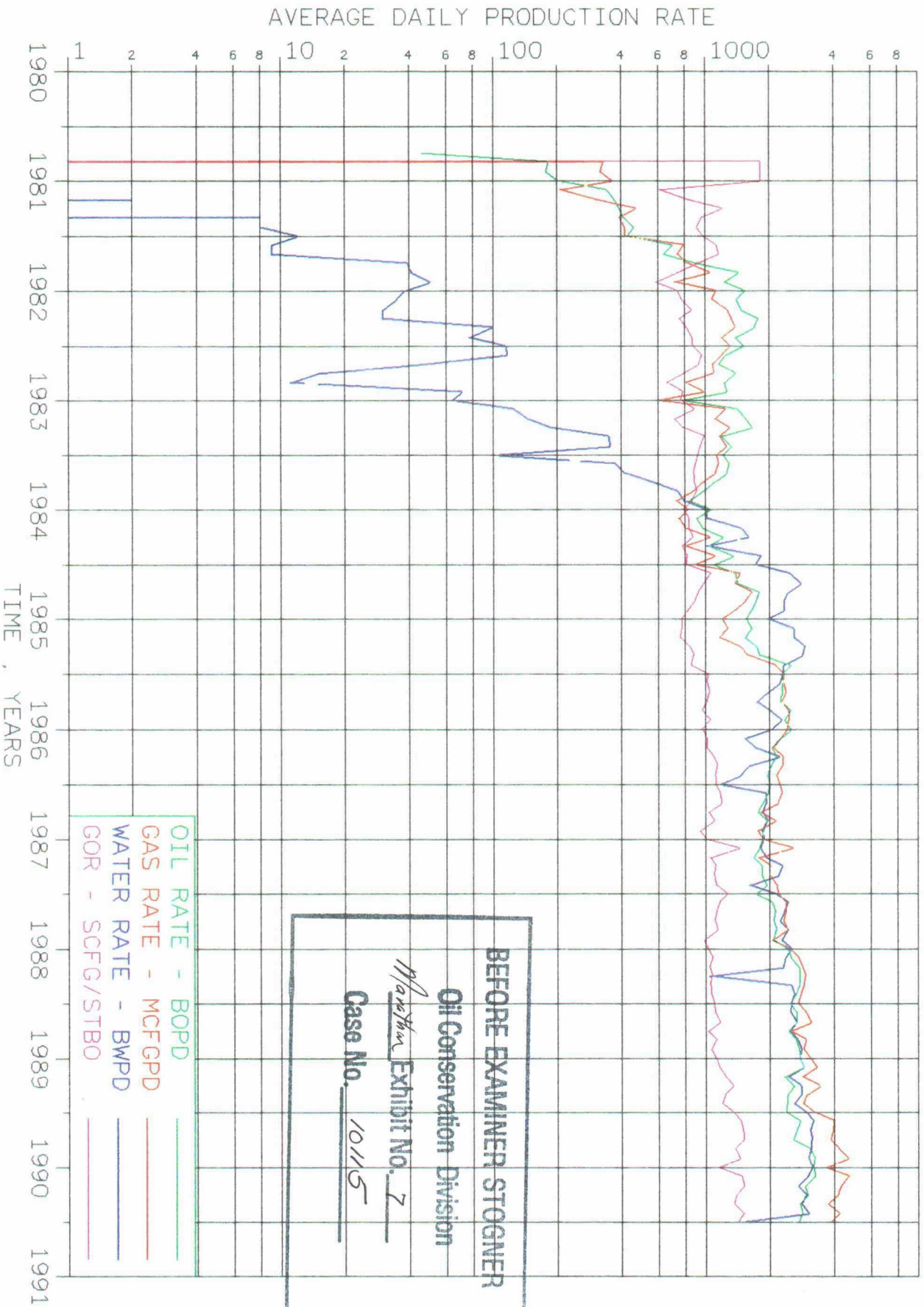
BEFORE EXAMINER STOGWEN

Oil Conservation Division

Marathon Exhibit No. 6

Case No. 10115

YOUNG NORTH (BONE SPRING) FIELDWIDE TOTAL



BEFORE EXAMINER STOGNER

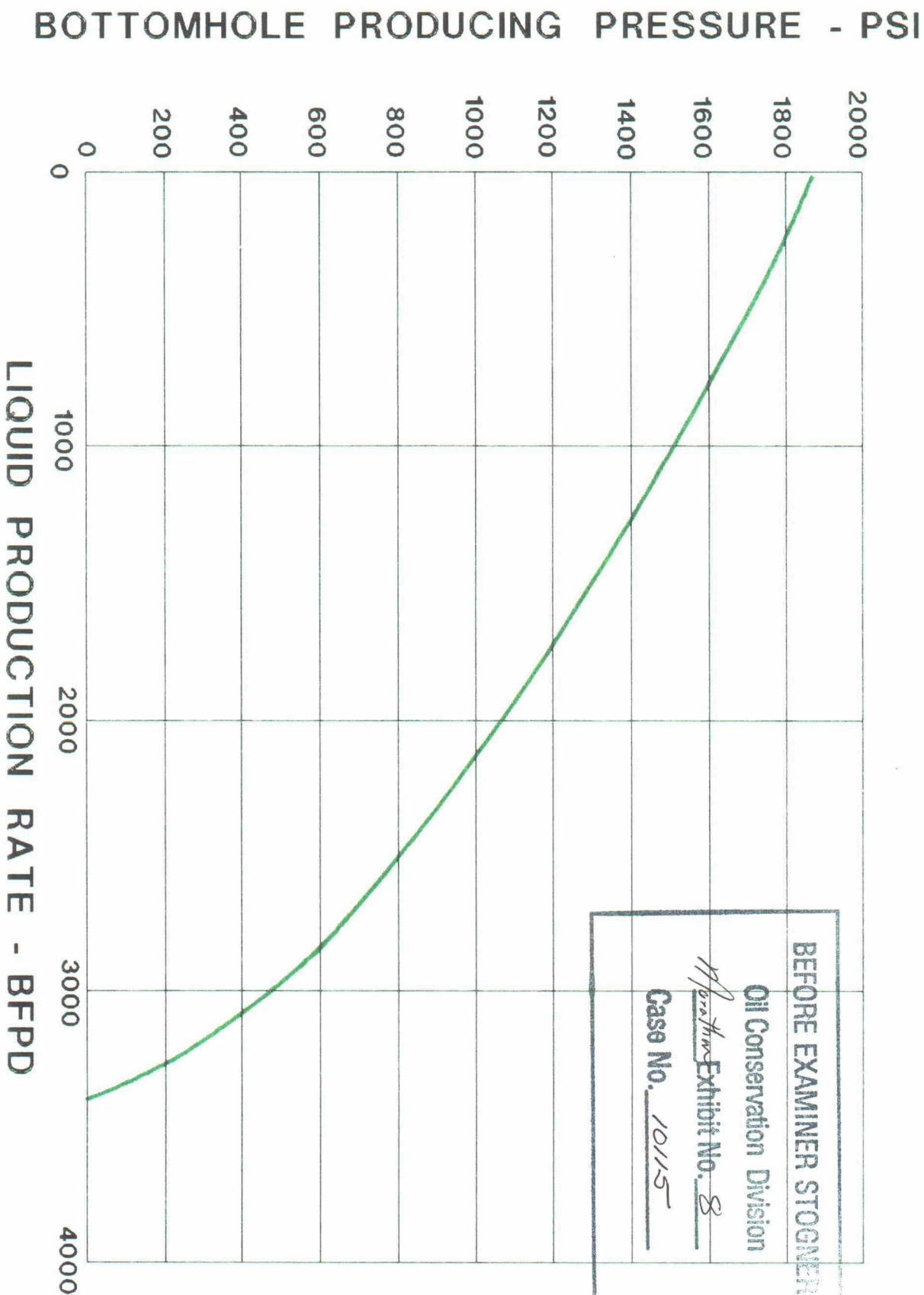
Oil Conservation Division

Marathon Exhibit No. 7

Case No. 10115

INFLOW PERFORMANCE

JOHNSON "B" FEDERAL NO. 6
TAMANO (BONE SPRING) FIELD



LEGEND

— VOGEL'S INFLOW PERFORMANCE (VOGEL'S IPR)

BEFORE EXAMINER SIGNATURE

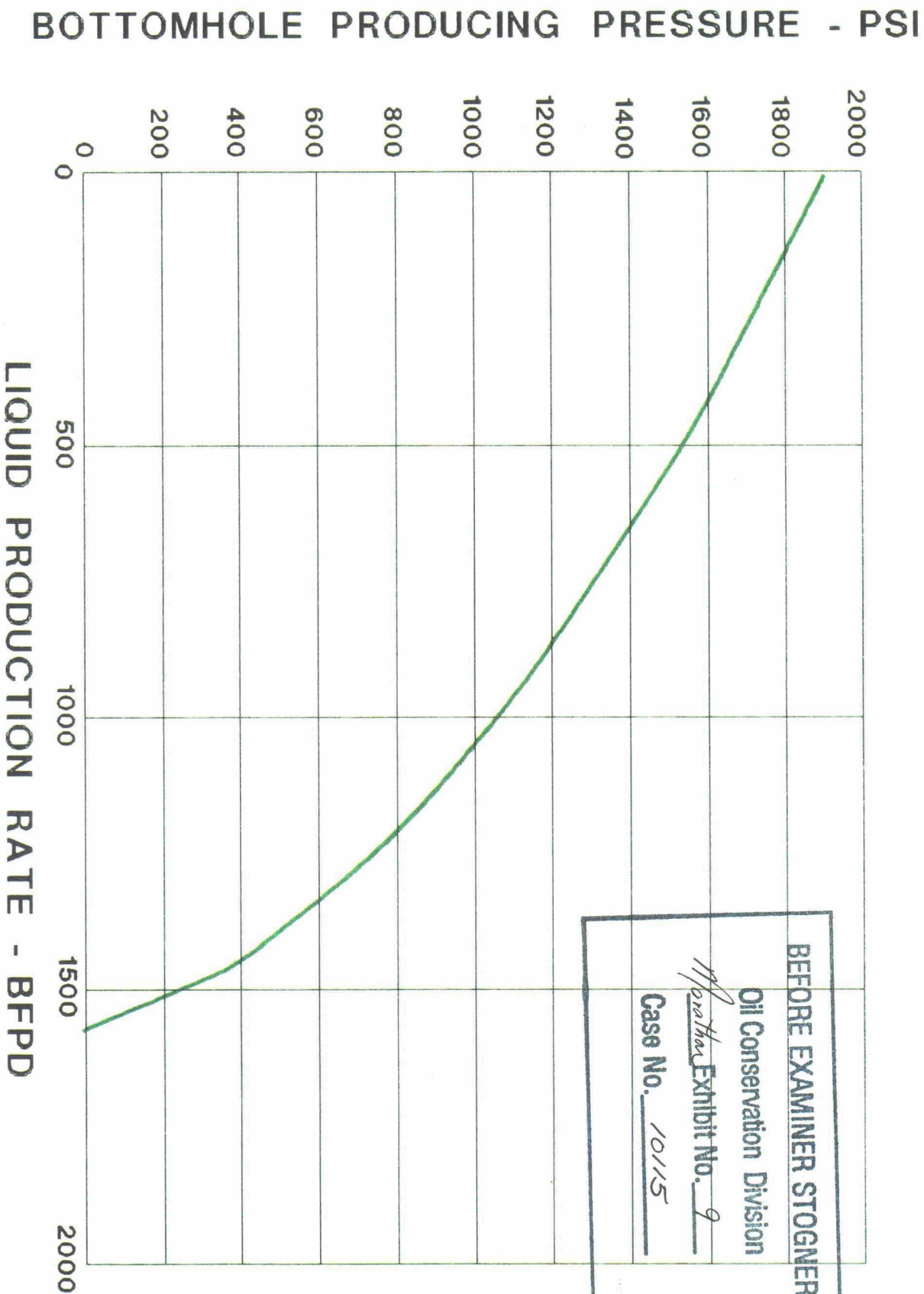
Oil Conservation Division

Exhibit No. 8

Case No. 10115

INFLOW PERFORMANCE

JOHNSON "B" FEDERAL A/C NO. 9
TAMANO (BONE SPRING) FIELD



BEFORE EXAMINER STOGNER

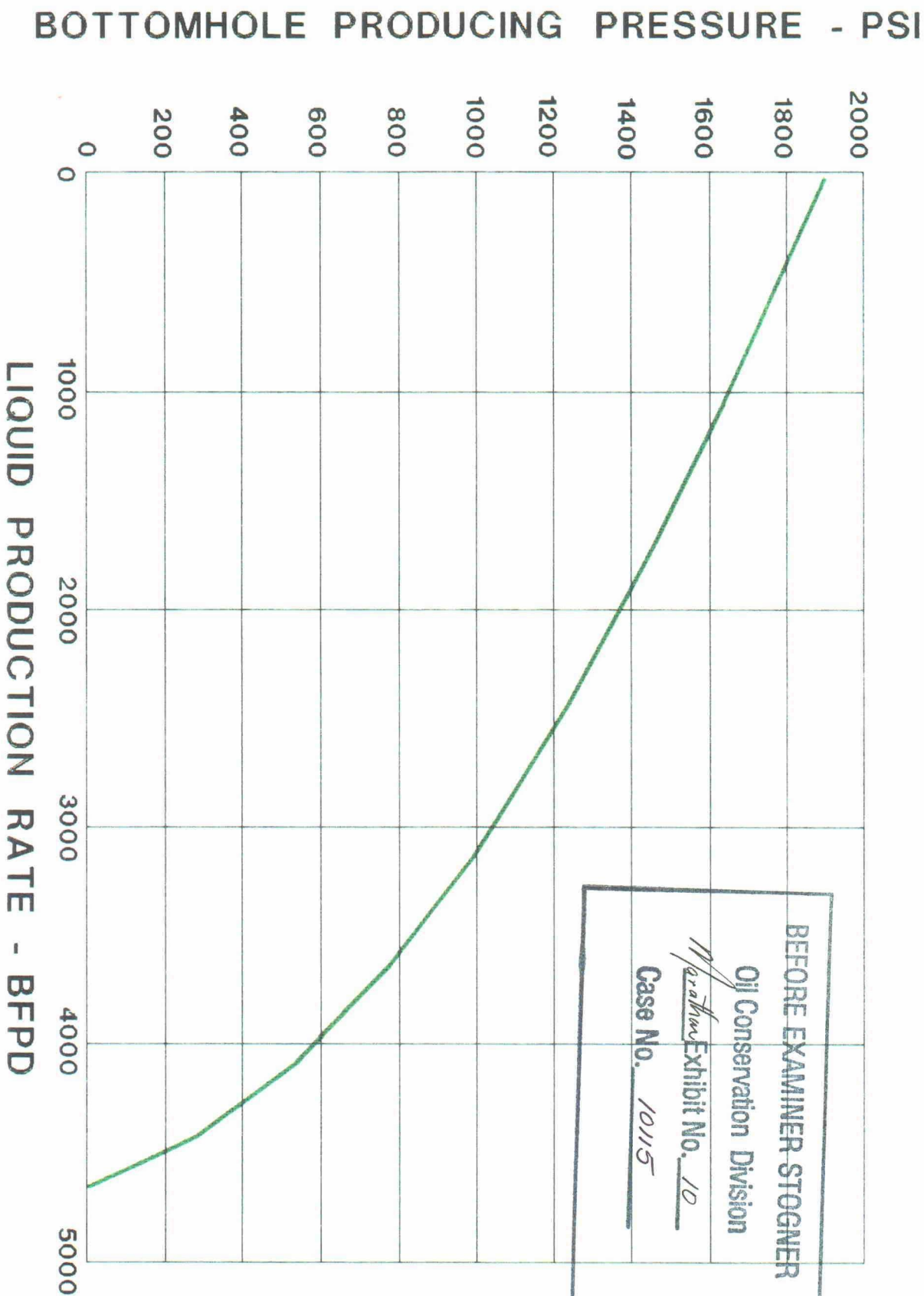
Oil Conservation Division

Exhibit No. 9

Case No. 10115

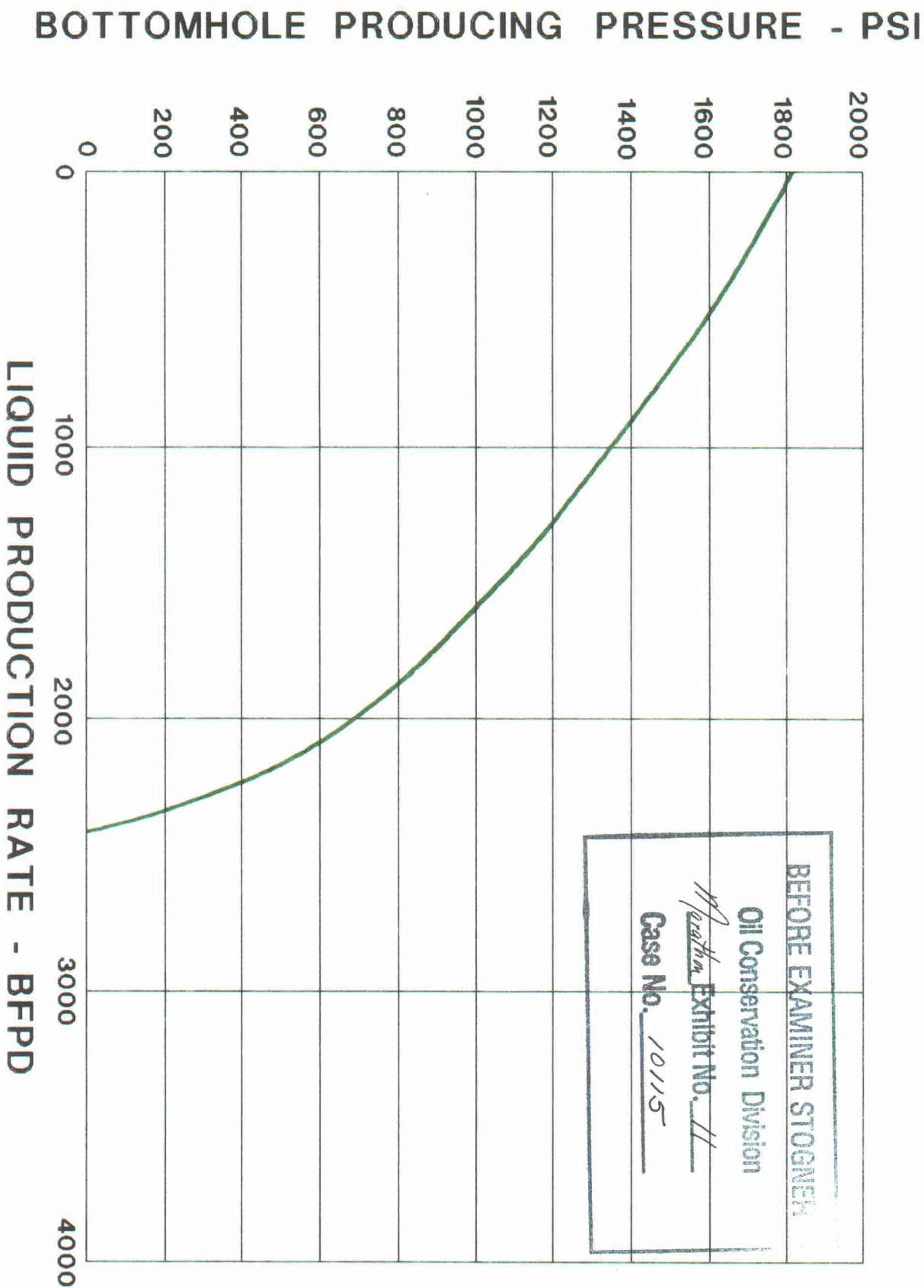
INFLOW PERFORMANCE

MOC-SHUGART "B" NO.2
TAMANO (BONE SPRING) FIELD



INFLOW PERFORMANCE

STETCO "10" FEDERAL NO. 1
TAMANO (BONE SPRING) FIELD



MARATHON OIL COMPANY TAMANO (BONE SPRING) FIELD FLUID PRODUCTION CHANGES

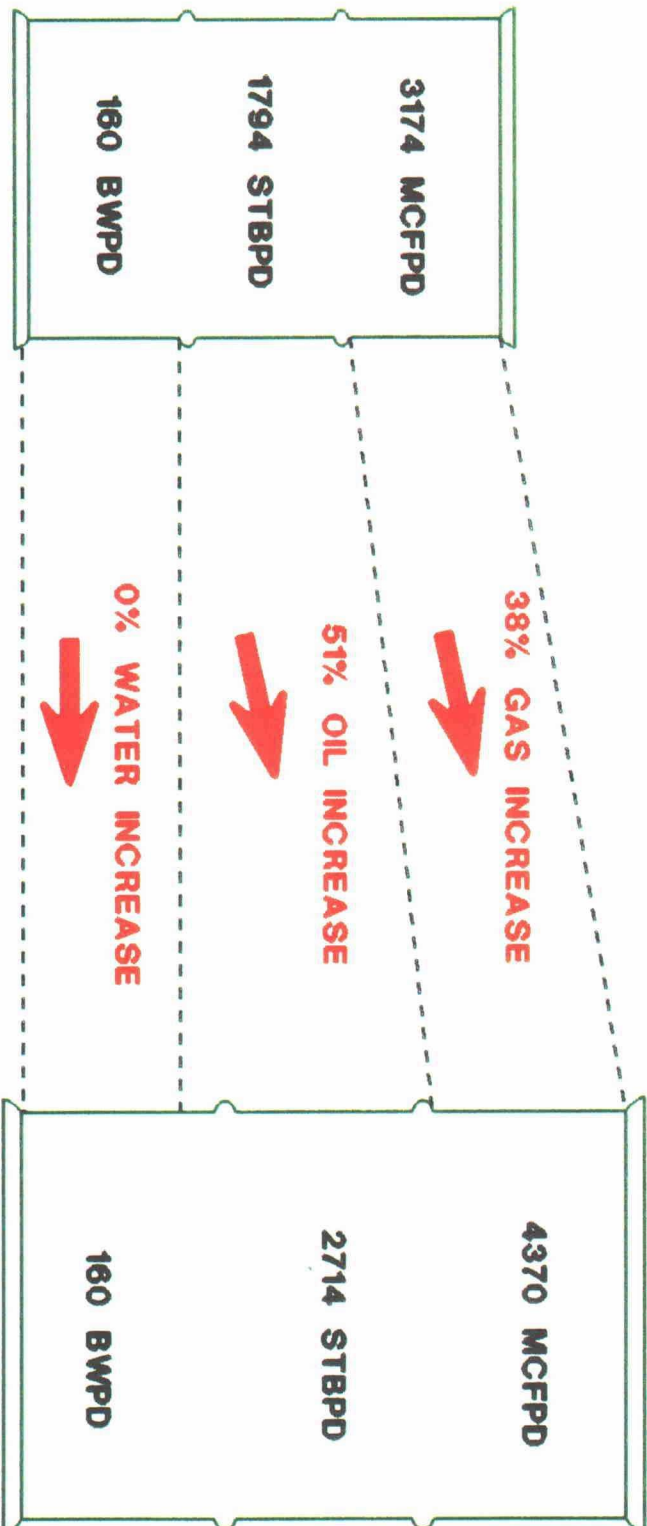
CURRENT
DEPTH BRACKET ALLOWABLE

ALLOWABLES
230 BOPD
460 MCF/D

35% INCREASE IN
RESERVOIR VOIDAGE

PROPOSED ALLOWABLE

ALLOWABLES
460 BOPD
920 MCF/D



GOR 1770 SCF/BBL

GAS/OIL RATIO
9% GOR DECREASE

GOR 1610 SCF/BBL

Examiner

Case No.

EXHIBIT NO.

10115

12

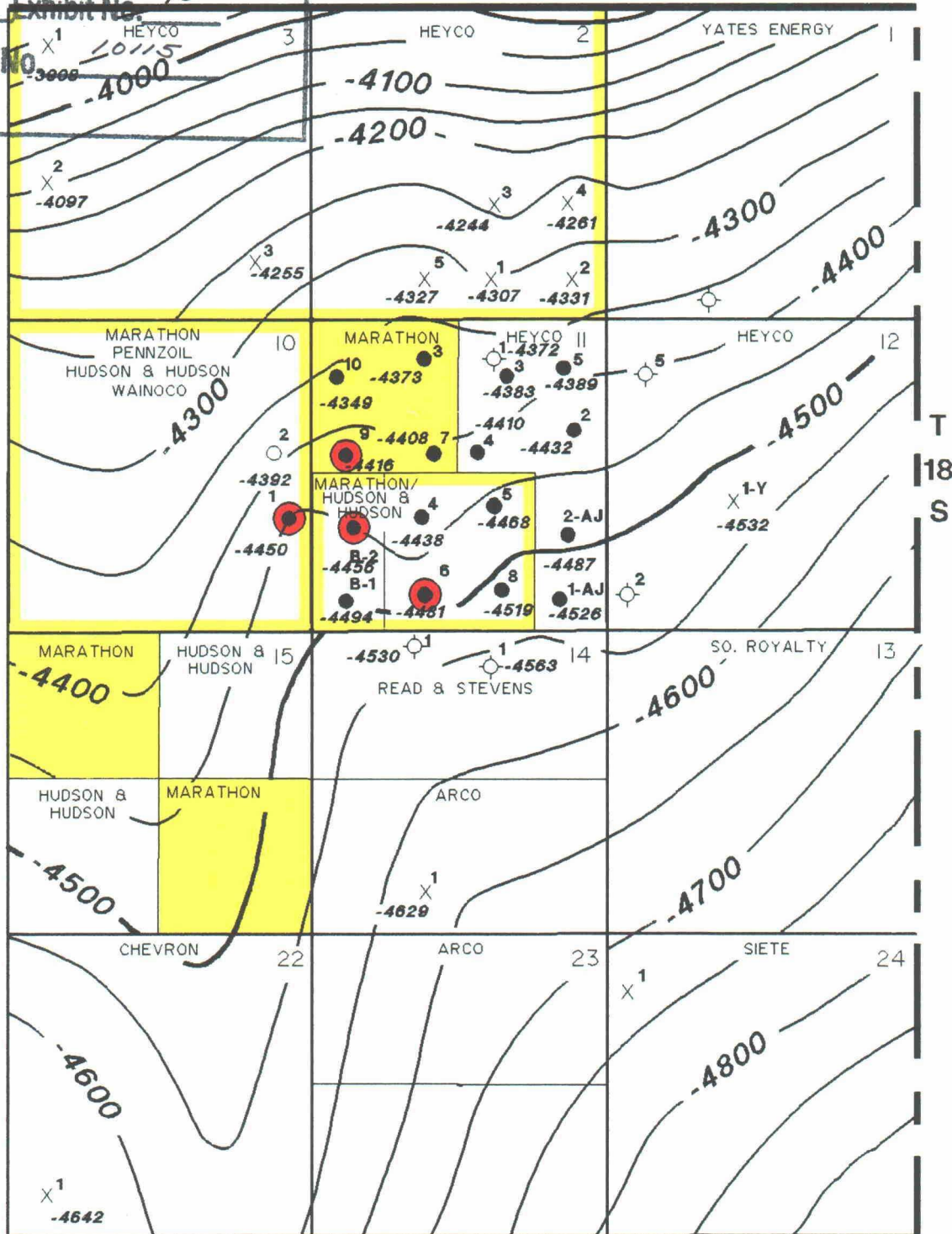
BEFORE EXAMINER STOGNER

Oil Conservation Division

Marathon Exhibit No. 13

Case No. 10115

R-31-E



NOTE: ONLY BONE SPRING AND
DEEPER WELLS ARE SHOWN

MARATHON OIL COMPANY
MID-CONTINENT REGION

TAMANO BONE SPRING

EDDY CO., NEW MEXICO

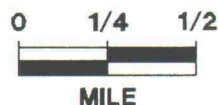
SUBSURFACE STRUCTURE MAP

C.I.: 50' TOP OF 2nd SAND

● 2nd CARBONATE PRODUCER

● HIGH CAPACITY WELLS

X PRODUCTION FROM DEEPER ZONES



10-90

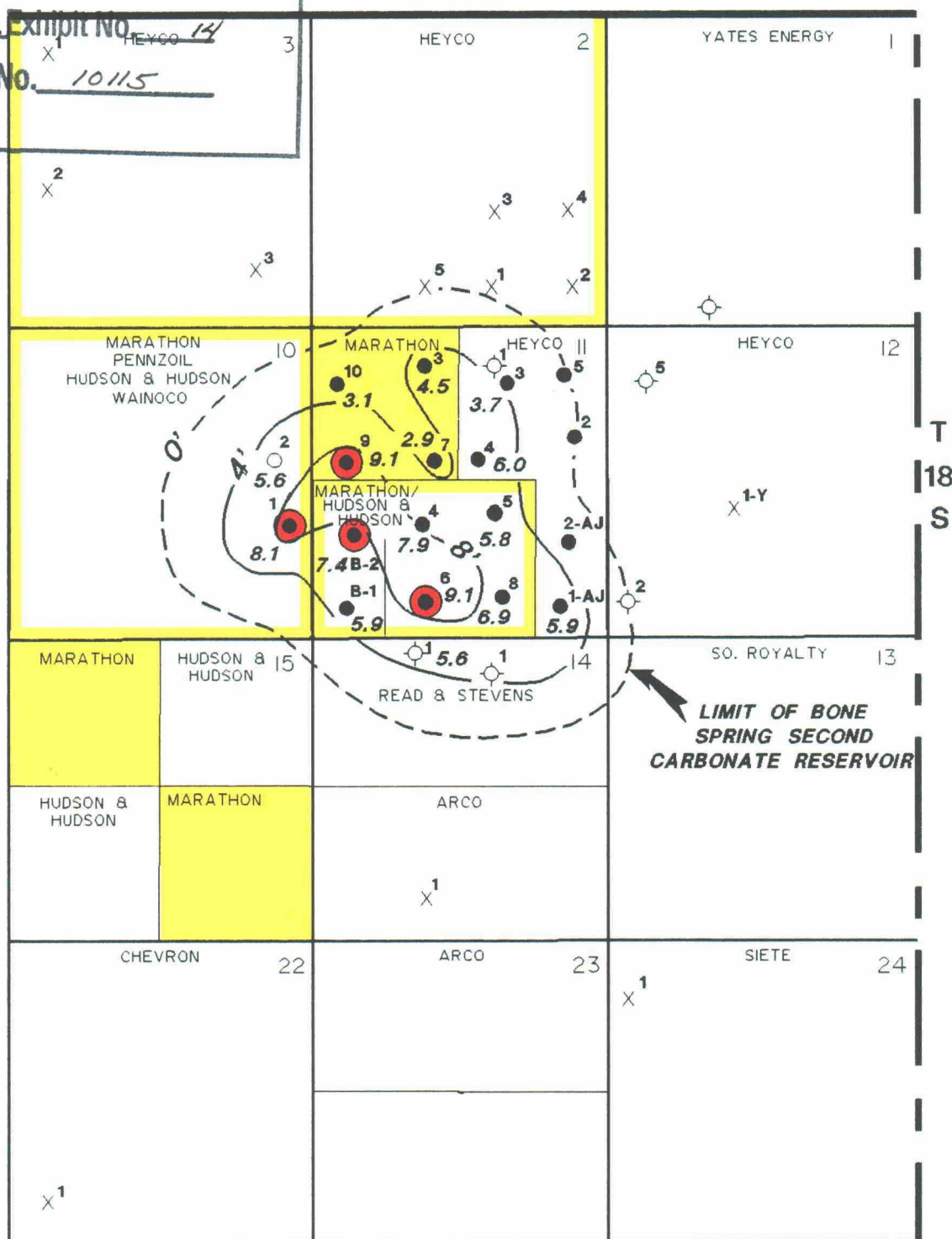
BEFORE EXAMINER STOGNER

Oil Conservation Division

Marathon Exhibit No. Exco 14

Case No. 10115

R-31-E



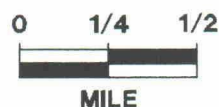
NOTE: ONLY BONE SPRING AND
DEEPER WELLS ARE SHOWN

**MARATHON OIL COMPANY
MID-CONTINENT REGION**

TAMANO BONE SPRING

EDDY CO., NEW MEXICO

**SECOND CARBONATE POROSITY-FEET
ISOPACH MAP**



10-90

- 2nd CARBONATE PRODUCER

- HIGH CAPACITY WELLS

- X PRODUCTION FROM DEEPER ZONES

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
ARCO
PO Box 1610
Midland, TX 79702
RE: Marathon Special Allowance (WTK)

4. Article Number
P572 125 090

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X *[Signature]*

7. Date of Delivery
SEP 28 1990

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

PS Form 3811, Apr. 1989

★ U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
HEYCO
PO Box 1933
Roswell, NM 88201
RE: Marathon Special Allowance (WTK)

4. Article Number
P572 125 093

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X *[Signature]*

7. Date of Delivery
SEP 28 1990

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

RECEIVED SEP 27 1990

PS Form 3811, Apr. 1989

★ U.S.G.P.O. 1989-238-815

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1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
VATES ENERGY CORP
Sunwest Center, Ste 1018
Roswell, NM 88201
RE: Marathon Special Allowance (WTK)

4. Article Number
P572 125 094

Type of Service:
☐ Registered ☐ Insured
☒ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X *[Signature]*

7. Date of Delivery
SEP 28 1990

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

RECEIVED OCT 04 1990

PS Form 3811, Apr. 1989

★ U.S.G.P.O. 1989-238-815

DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
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1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Meridian Oil, Inc.
21 DESTA DRIVE
Midland, TX 79705
RE: mazda non special
allow (wtk)

4. Article Number
P572125083

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X V. Benham

7. Date of Delivery
9-27-89

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

PS Form 3811, Apr. 1989 ★U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the date of delivery. For additional fees the following services are available. Consult postmaster for fees and check box(es) for additional service(s) requested.

1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
IZead & Stevens, Inc.
PO BOX 1518
Roswell, NM 88001
mazda non special
allow (wtk)

4. Article Number
P572125095

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Th. Seale

7. Date of Delivery

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

RECEIVED SEP 27 1990

PS Form 3811, Apr. 1989 ★U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and 4.
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1. ☐ Show to whom delivered, date, and addressee's address. (Extra charge) 2. ☐ Restricted Delivery (Extra charge)

3. Article Addressed to:
Hudson, WA & Hudson, TX
616 TEXAS ST.
FORT WORTH, TX 76102-4608
RE: mazda non special
allow (wtk)

4. Article Number
P572125091

Type of Service:
☐ Registered ☐ Insured
☐ Certified ☐ COD
☐ Express Mail ☐ Return Receipt for Merchandise

Always obtain signature of addressee or agent and DATE DELIVERED.

5. Signature — Addressee
X

6. Signature — Agent
X Clark

7. Date of Delivery
OCT 01 1990

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

RECEIVED OCT 04 1990

PS Form 3811, Apr. 1989 ★U.S.G.P.O. 1989-238-815 DOMESTIC RETURN RECEIPT

STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION

IN THE MATTER OF THE APPLICATION
OF MARATHON OIL COMPANY FOR
ASSIGNMENT OF SPECIAL DEPTH
BRACKET OIL ALLOWABLE, EDDY COUNTY
NEW MEXICO

CASE NO. 10115

CERTIFICATE OF MAILING

AND

COMPLIANCE WITH ORDER R-8054

In Accordance with Division Rule 1207 (Order R-8054) I hereby certify that on September 25, 1990, I caused to be mailed by certified mail return-receipt requested notice of this hearing and a copy of the Application for the above referenced case along with a cover letter, at least twenty days prior to the hearing which was continued to October 31, 1990, to the parties shown in the Application as evidenced by the attached copies of return receipt cards.


W. Thomas Kellahin

SUBSCRIBED AND SWORN to before me this 29 day of
October, 1990.


Notary Public

My Commission Expires:

7-6-91

Ex. 16