



**Marathon
Oil Company**

Mid-Continent Region
Production United States

OIL CONSERVATION DIVISION
RECEIVED

OIL CONSERVATION DIVISION
RECEIVED

P.O. Box 552
Midland, Texas 79702
Telephone 915/682-1626

35
34 FEB 3 AM 8 35

January 19, 1994

Mr. William LeMay, Director
Energy, Minerals, & Natural Resources Dept.
New Mexico Oil Conservation Dept.
P O Box 2088
Santa Fe, New Mexico 87504-2088

Attn: David R. Catanach

RE: Request for Exception to Rule 303-A
Downhole Commingling
W. S. Marshall "B" #10
Unit M, 634' FSL & 632' FWL
Sec. 27, T-21-S, R-37-E
Blinebry Oil & Gas and Wantz Abo
Drinkard Field
Lea County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company is requesting administrative approval for an exception to Rule 303-A, which would permit the downhole commingling of production in the referenced well from the Blinebry Oil & Gas and the Wantz Abo pools in Lea County, New Mexico.

Currently, the well is dually completed with both zones being produced up tubing strings. By removing the two tubing strings and commingling, the two zones the can be rod pumped, reducing back pressure on the formation and increasing productivity.

Listed below is pertinent supporting data.

1. A lease plat showing location of well is attached.
2. Copies of recently conducted C-116s for both zones attached.
3. Decline curves for both zones attached.
4. Form C-102 for the Blinebry and Wantz Abo are attached.
5. A list of off set operators is attached.
6. Estimated shut in bottom hole pressures are 980 psi from for the Blinebry, and 1150 psi for the Wantz Abo.
*During pumping operations producing BHP expected to be \pm 60 psi for each zone.
7. Working and royalty ownership in all formations is the same.

8. The quality of the produced fluids is nearly identical and downhole commingling will not reduce the commercial value. Properties are listed below.

<u>Zone</u>	<u>Oil Gravity</u>	<u>Quality</u>
Blinebry 5-6K	38° API	Sour
Wantz Abo 7-8K	37° API	Sour

9. The following allocation percentages are suggested based upon the ratio of anticipated production from each zone.

<u>Zone</u>	<u>Oil %</u>	<u>Anticipated Prod BOPD</u>	<u>Gas %</u>	<u>Anticipated Prod MCFPD</u>
Blinebry	16.7	8	49.7	148
Wantz Abo	<u>88.3</u>	<u>40</u>	<u>50.3</u>	<u>150</u>
	100	48	100	298

Production estimates are based on last C-116 test for Blinebry and reaction of the Wantz Abo in the W. S. Marshall "B" #9 after similar work.

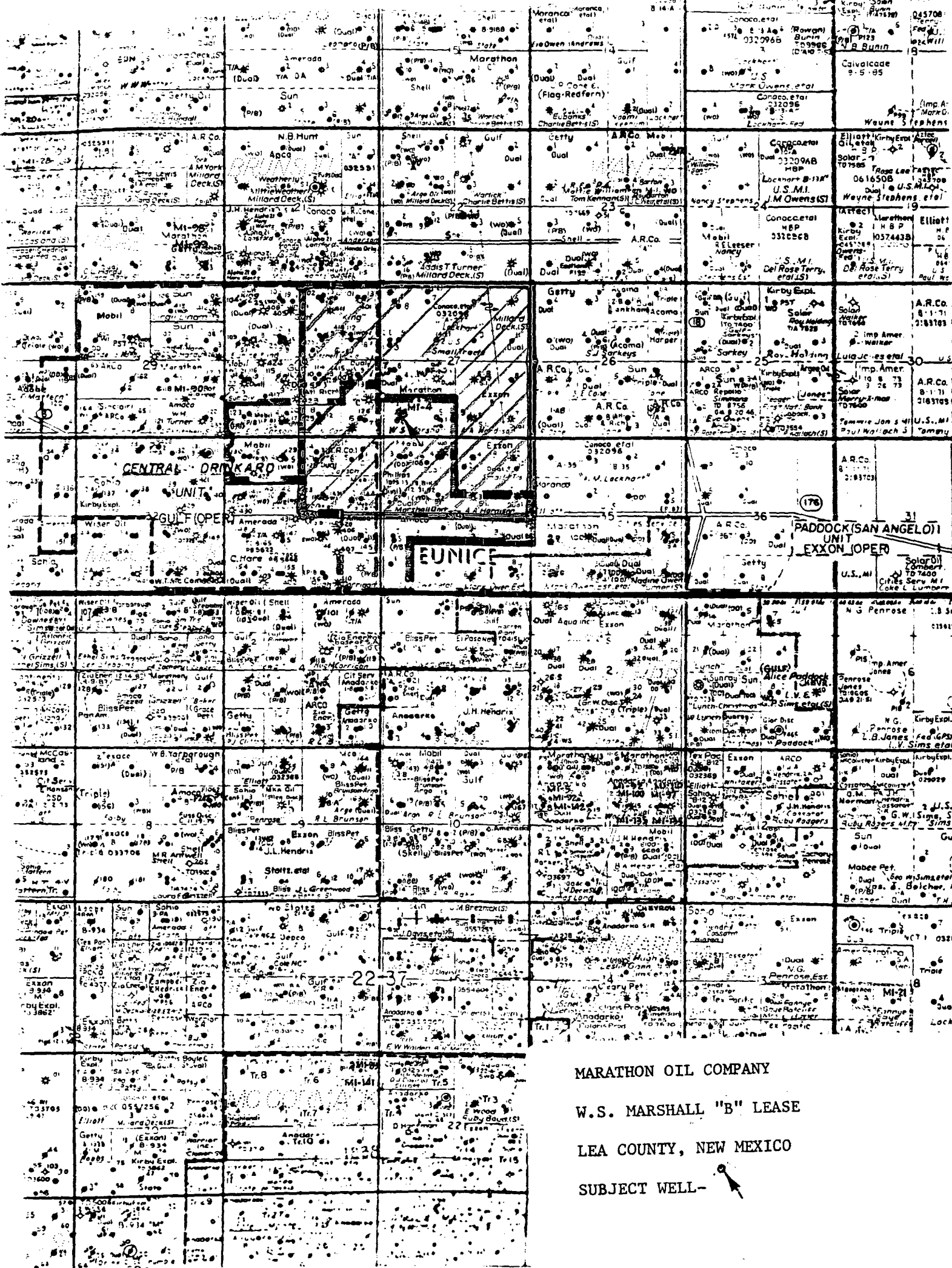
If additional information is necessary, please contact me at 915/682-1626.

Respectfully,

Thomas M Price

Thomas M. Price
Advanced Engineering Technician

xc: Jerry Sexton, NMOCD Hobbs
tmp\jo\94004



MARATHON OIL COMPANY
W.S. MARSHALL "B" LEASE
LEA COUNTY, NEW MEXICO
SUBJECT WELL-

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

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

Operator Marathon Oil Company		Pool Blinebry Oil & Gas		County Lea												
Address P.O. Box 552, Midland, Texas, 79702		TYPE OF TEST - (X)		Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>												
LEASE NAME W.S. Marshall "B"	WELL NO. 10	LOCATION				DATE OF TEST 12-9-93	% FLS P	CHOKE SIZE NA	TBQ. PRESS. 40	DAILY ALLOW-ABLE M	LENGTH OF TEST HOURS 24	PROD. DURING TEST				GAS - OIL RATIO CU.FT/88L. 18500
		U	S	T	R							WATER BBLs.	GRAV. OK.	OK. BBLs.	GAS M.C.F.	
		M	27	21	37							5	38	8	148	

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.

Signature Thomas M. Price
Thomas M. Price
Printed name and title
1-13-94
Date
915-687-8324
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

Form C-116
Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

Operator Marathon Oil Company		Pool Wantz Abo		County Lea												
Address P.O. Box 552, Midland, Texas, 79702		TYPE OF TEST - (X)		Scheduled <input type="checkbox"/> Completion <input type="checkbox"/> Special <input checked="" type="checkbox"/>												
LEASE NAME	WELL NO.	LOCATION				DATE OF TEST	% FLOWING	CHOKE SIZE	TBQ. PRESS.	DAILY ALLOW-ABLE MGW	LENGTH OF TEST HOURS	PROD. DURING TEST			GAS - OIL RATIO CU.FT/BBL	
		U	S	T	R							WATER BBL.	GRAV. OIL BBL.	GAS M.C.F.		
W.S. Marshall "B"	10	M	27	21	37	12-28-93	F	NA	60	MGW	24	0	37	1	189	189000

Instructions:

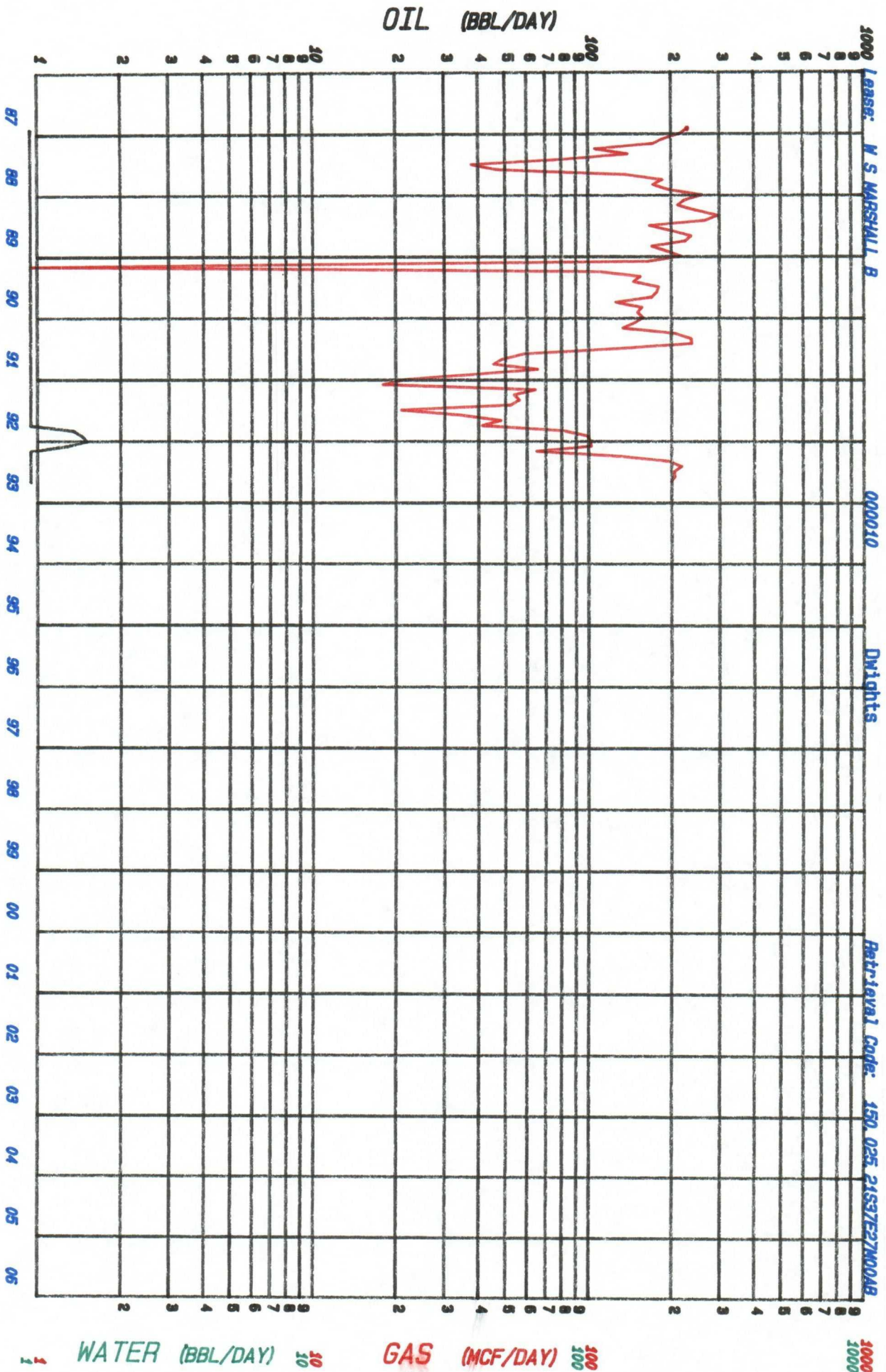
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized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

Signature Thomas M. Price
Thomas M. Price
Printed name and title
1-19-94
Date
915-687-8324
Telephone No.



County: LEA

State: NM

Field: WANTZ (ABO) AB

Reservoir: ABO

Operator: MARATHON OIL CO

Oil Cmk: 288

Gas Cmk: 299728

Location: 27N 21S 37E

F.P. Date 11-87

Date: 01-18-94

N M XICO OIL CONSERVATION COMMISS'
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-65

All distances must be from the outer boundaries of the Section.

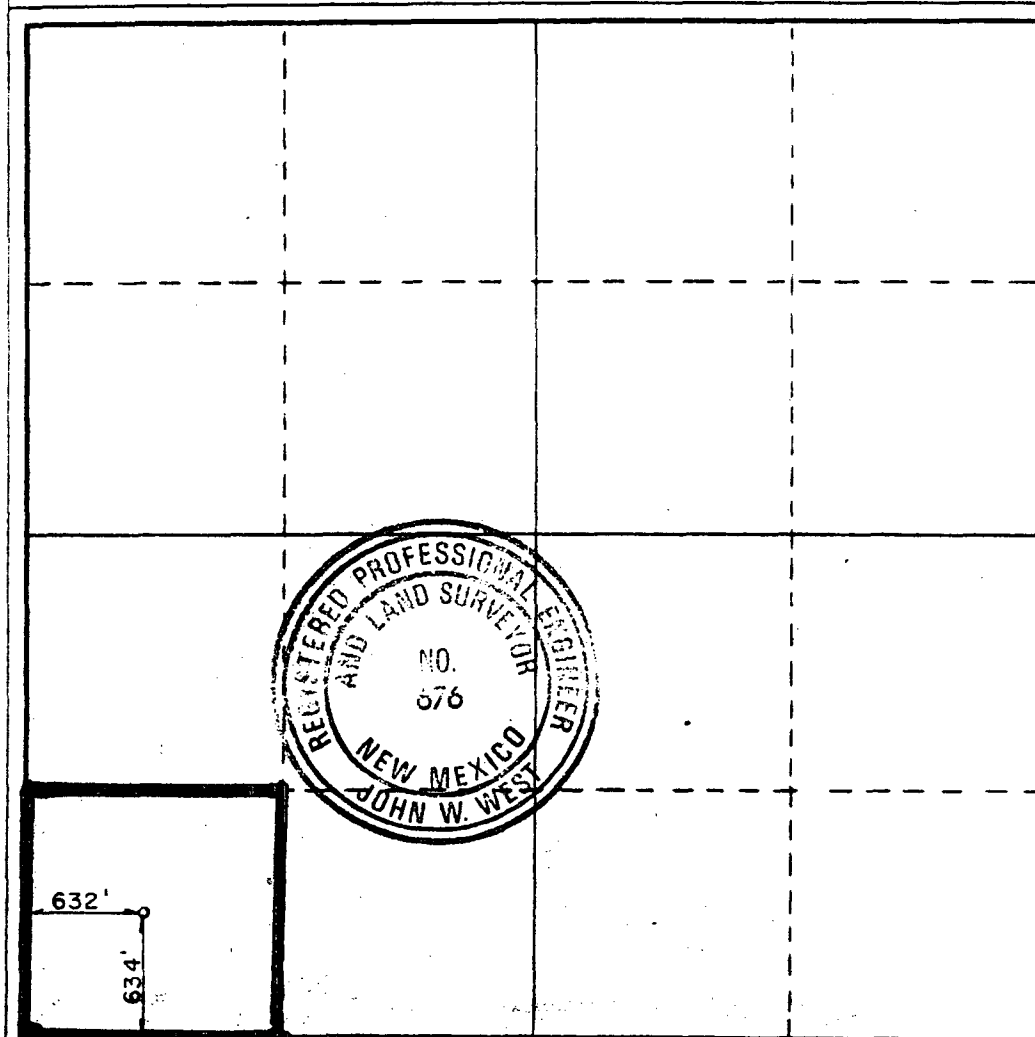
Operator MARATHON OIL CO.			Lease W.S. MARSHALL "B"		Well No. 10
Unit Letter M	Section 27	Township 21-S	Range 37-E	County LEA	
Actual Footage Location of Well: 634 feet from the SOUTH line and 632 feet from the WEST line					
Ground Level Elev. 3416.0	Producing Formation Wantz Abo		Pool Wantz Abo Oil and Gas		Dedicated Acreage: 40 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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.

Eric M. Pringle

Name
Eric M. Pringle

Position
Engineer

Company
Marathon Oil Company

Date
January 16, 1987

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 8, 1987

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST, 676**
RONALD J. EIDSON, 3239

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

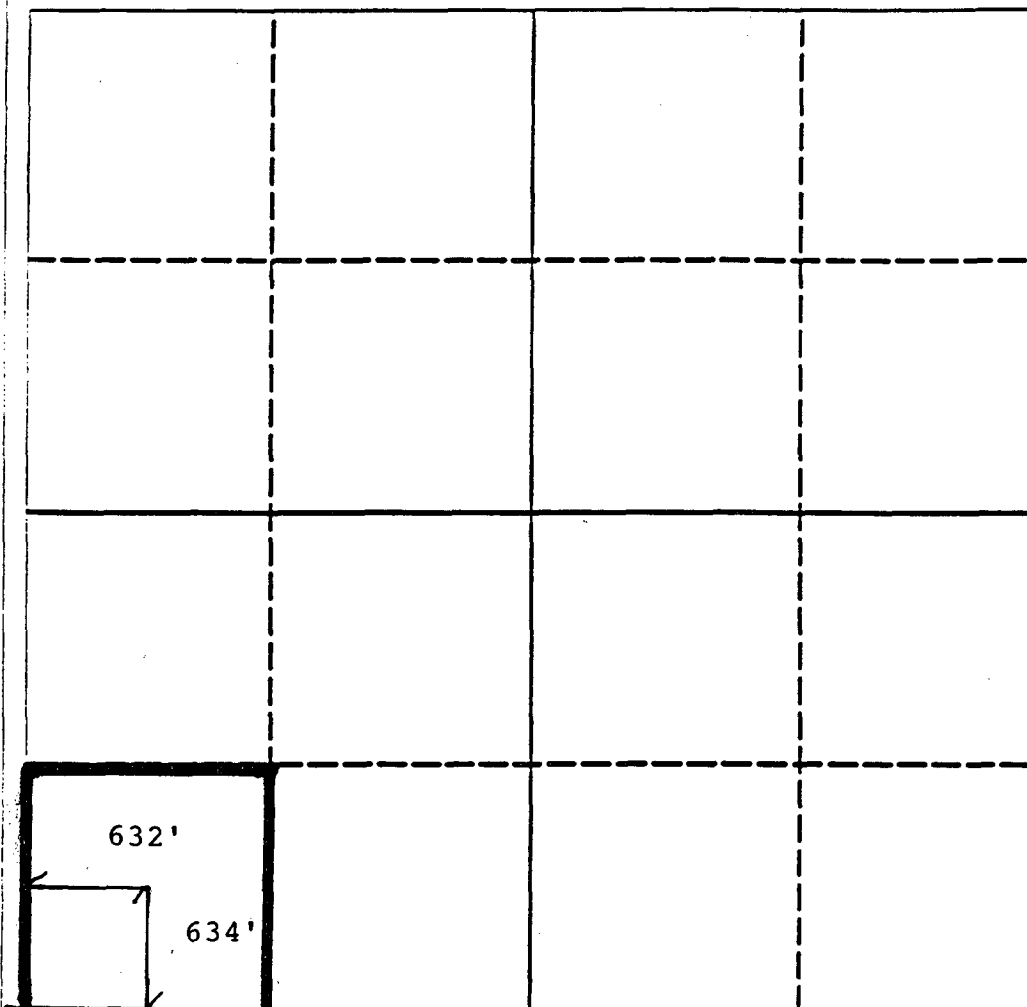
All Distances must be from the outer boundaries of the section

Operator Marathon Oil Company			Lease W. S. Marshall "B"		Well No. 10
Unit Letter M	Section 27	Township 21-S	Range 37-E	County Lea	

Actual Footage Location of Well:

634 feet from the South line and		632 feet from the West line		40
Ground level Elev. 3416	Producing Formation Blinebry	Pool Blinebry	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 interest 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 interest, has been approved by the Division.



OPERATOR CERTIFICATION

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

Signature <i>Thomas M. Price</i>
Printed Name Thomas M. Price
Position Adv. Engin. Tech.
Company Marathon Oil Company
Date 01-19-94

SURVEYOR CERTIFICATION

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
Signature & Seal of Professional Surveyor
Certificate No.

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

INTRACOMPANY CORRESPONDENCE

TO T. M. Price
OFFICE Midland, Texas
SUBJECT

DATE January 24, 1994
FROM *JBR for WLR*
Wayne L. Ransbottom
OFFICE Midland, Texas

Re: Offset Operators
Our Lease NM-378 - W. S. Marshall
SW/4 Section 27, T-21-S, R-37-E, N.M.P.M.,
Lea County, New Mexico

Pursuant to your request, attached is a listing of the offset operators to Marathon's above-referenced lease:

T-21-S, R-37-E, N.M.P.M.

Section 27: N/2

Conoco Inc.
P. O. Box 1959
Midland, TX 79702-1959

Section 27: SE/4

Exxon Corporation
P. O. Box 1600
Midland, TX 79702-1600

Section 34: NE/4

Exxon Corporation

Section 34: NW/4

Mobil E&P U.S. Inc.
P. O. Box 633
Midland, TX 79702-0633

Section 33: NE/4

Mobil E&P U.S. Inc.

Chevron USA Inc.
P. O. Box 1150
Midland, TX 79702-1150

Section 28: E/2

Chevron USA Inc.

J. F. Rusnak
Extension 8464

J.F. Rusnak

JFR:mmc'

Submit 3 Copies
to Appropriate
District Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-163
Revised 1-1-89

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

OIL CONSERVATION DIVISION

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

WELL API NO.
30-025-29797

5. Indicate Type of Lease
STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
W.S. MARSHALL "B" N

8. Well No.
10

9. Pool name or Wildcat
DRINKARD(BLINEBRY/WANTZ ABO)

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"
(FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:
OIL WELL ☒ GAS WELL ☐ OTHER

2. Name of Operator
Marathon Oil Company

3. Address of Operator
P.O. Box 552 Midland, Tx. 79702

4. Well Location
Unit Letter M : 634 Feet From The SOUTH Line and 632 Feet From The WEST Line

Section 27

Township 21-S

Range 37-E

NMPM LEA

County

10. Elevation (Show whether DF, RKB, RT, GR, etc.)
GL:3416 KB:3432.6

11. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

OTHER: ADD PERFS AND COMMINGLE ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

12. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103.

Marathon Oil Co. is proposes to add perfs to the existing Wantz Abo completion is this well and downhole commingle with the Blinebry as per the procedure summarized below.

MIRU PU. Install BOP.POOH with Tbg and Pkrs. Add Wantz Abo perfs 6972'-7035'selectively . Stimulate the Wantz Abo with 4000 gallons 15% HCL. Sand frac the Wantz Abo with 380,000# sand. Swab and flow back the Wantz Abo. Stimulate Blinebry w/3000 gallons 15% HCL. Swab & flow back the Blinebry. Install production tbg, rods and pump, commingling the Wantz Abo and Blinebry. Turn well to test.

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

SIGNATURE Thomas M. Price TITLE Adv. Eng. Tech. DATE 1-19-94

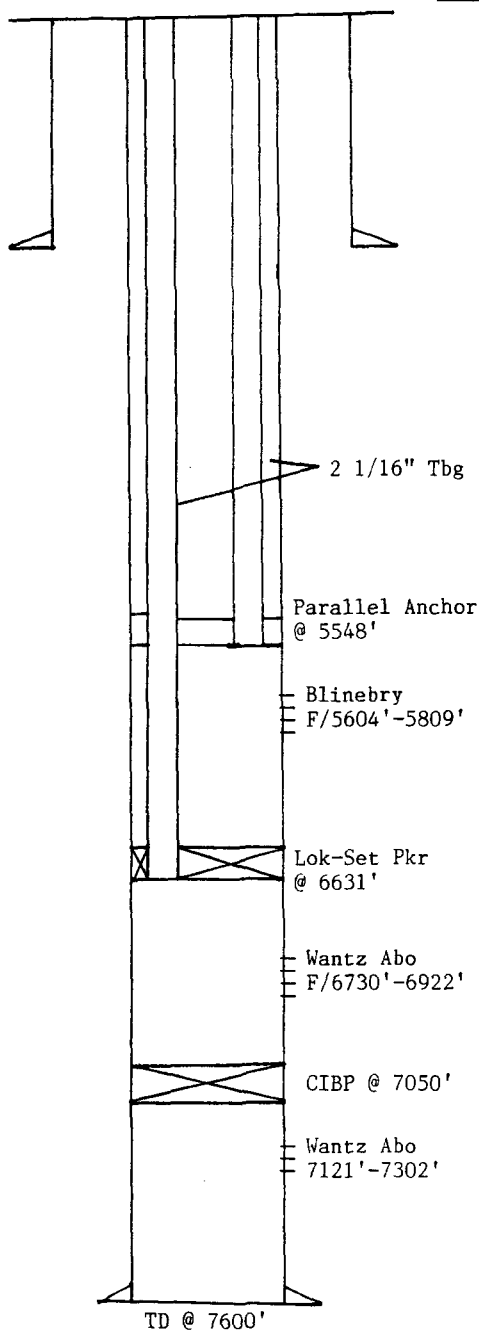
TYPE OR PRINT NAME Thomas M. Price TELEPHONE NO. 915-687-8324

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

WELL DATA SHEET

FIELD Wantz AboLEASE AND WELL NO. W. S. Marshall "B" Well No. 10LOCATION 634' FSL & 632' FWL, Sec. 27, T21S, R37ECOUNTY AND STATE Lea County, New MexicoSTATUS FlowingTD 7600' PBDT 7050' KB 3429' GL 3416'SURFACE CASING 8 5/8", 24#, K-55 to 1202'.Cmt'd w/650 sx "Lite". Circ'd to surface.

INTERMEDIATE CASING _____

PRODUCTION CASING 5 1/2", 15.5#, K-55 to 4901',17#, K-55 F/4901'-7558'. 17#, N-80 F/7559'-7600'. Cmt'd w/1st Stage: 900 sx Poz, 2nd Stage:2100 sx Lite.TUBING 2 1/16" tbq on/off tool, Baker Lok-set pkr& parallel anchor. Set pkr @ 6631'. Set anchor@ 5548'. Latched into parallel anchor w/2 1/16"tbq.RODS N/APUMPING UNIT N/A

PRESENT COMPLETION: (Formation and Interval)

Wantz Abo 6730'-6923' w/1 JSFP (24 holes).Blinebry F/5604'-5809'.HISTORY Spudded well on 3/5/87. Completed in the Wantz Abo F/7121'-7302'. Acidized w/2500 gals of 15% NEFE. Set plug. Perf'd F/6730'-6922'. Acidized w/2500 gals of 15%NEFE. IP - 820 MCFPD. Set plug. Perf'd Blinebry F/5604'-5896'. Acidized w/3000 gals15% HCl. Frac'd Blinebry w/60,000 gals Purgel w/118,000# sand. Set CIBP @ 7050'. IP:Wantz Abo - 350 MCFPD on 28/64" choke. Blinebry F/103 BO & 60 BW in 24 hrs. Allowable:107 BOPD.PREPARED BY: Stephen P. RobertsDATE 12/19/88

057-88/wds2

Mid-Continent Region
Production United States



**Marathon
Oil Company**

P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

February 2, 1994

Mobil E&P U. S. Inc.
P O Box 633
Midland, Texas 79702-0633

RE: Downhole Commingle Application
W. S. Marshall "B" No. 10
Unit M, 634' FSL & 632' FWL
Sec. 27, Twp 21-S, Rng 37-E
Blinebry and Wantz Abo
Drinkard Field

Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above captioned well. Enclosed, please find a copy of the application as outlined in Rule 303-A.

If you are in agreement and waive all objections to the downhole commingling, please sign and return one copy to Marathon Oil Company at the above address.

Sincerely,

S.P. Guidry
By T. Price

S. P. Guidry
Northwest Operations
Production Superintendent

tmp\jo\94005

Attachment

Agreed and accepted this _____ day of _____, 1994
by _____ as representative of _____.

Mid-Continent Region
Production United States



**Marathon
Oil Company**

P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

February 2, 1994

Chevron USA, Inc.
P O Box 1150
Midland, Texas 79702-1150

RE: Downhole Commingle Application
W. S. Marshall "B" No. 10
Unit M, 634' FSL & 632' FWL
Sec. 27, Twp 21-S, Rng 37-E
Blinebry and Wantz Abo
Drinkard Field

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Sincerely,

S. P. Guidry
By T. J. Price

S. P. Guidry
Northwest Operations
Production Superintendent

tmp\jo\94005

Attachment

Agreed and accepted this _____ day of _____, 1994
by _____ as representative of _____.

Mid-Continent Region
Production United States



**Marathon
Oil Company**

P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

February 2, 1994

Exxon Corporation
P O Box 1600
Midland, Texas 79702-1600

RE: Downhole Commingle Application
W. S. Marshall "B" No. 10
Unit M, 634' FSL & 632' FWL
Sec. 27, Twp 21-S, Rng 37-E
Blinebry and Wantz Abo
Drinkard Field

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Sincerely,

S.P. Guidry
By T. Price

S. P. Guidry
Northwest Operations
Production Superintendent

tmp\jo\94005

Attachment

Agreed and accepted this _____ day of _____, 1994
by _____ as representative of _____.



**Marathon
Oil Company**

P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1626

February 2, 1994

Conoco, Inc.
P O Box 1959
Midland, Texas 79702-1954

RE: Downhole Commingle Application
W. S. Marshall "B" No. 10
Unit M, 634' FSL & 632' FWL
Sec. 27, Twp 21-S, Rng 37-E
Blinebry and Wantz Abo
Drinkard Field

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Sincerely,

S. P. Guidry
B. J. T. [Signature]

S. P. Guidry
Northwest Operations
Production Superintendent

tmp\jo\94005

Attachment

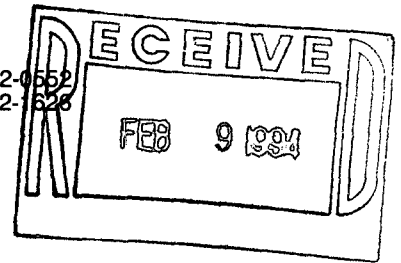
Agreed and accepted this _____ day of _____, 1994
by _____ as representative of _____.

Mid-Continent Region
Production United States



**Marathon
Oil Company**

P.O. Box 552
Midland, TX 79702-0552
Telephone 915/682-1528



February 2, 1994

Conoco, Inc.
P O Box 1959
Midland, Texas 79702-1954

RE: Downhole Commingle Application
W. S. Marshall "B" No. 10
Unit M, 634' FSL & 632' FWL
Sec. 27, Twp 21-S, Rng 37-E
Blinebry and Wantz Abo
Drinkard Field

DHC-991

Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above captioned well. Enclosed, please find a copy of the application as outlined in Rule 303-A.

If you are in agreement and waive all objections to the downhole commingling, please sign and return one copy to Marathon Oil Company at the above address.

Sincerely,

S. P. Guidry
By [Signature]

S. P. Guidry
Northwest Operations
Production Superintendent

tmp\jo\94005

Attachment

Agreed and accepted this 32 day of February, 1994
by [Signature] as representative of Conoco.
Hobbs OU Team Leader

RECEIVED

FEB 24 1994

MARATHON OIL CO.
MIDLAND OPERATIONS SUPT.
MIDLAND, TEXAS



STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION
HOBBS DISTRICT OFFICE

2-8-94

POST OFFICE BOX 1980
HOBBS, NEW MEXICO 88241-1980
(505) 393-6161

OIL CONSERVATION DIVISION
RECEIVED
FEB 11 AM 8 35
BRUCE KING
GOVERNOR

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

RE: Proposed:

MC
DHC ☒
NSL
NSP
SWD
WFX
PMX

DHC-991

Gentlemen:

I have examined the application for the:

Marathon Oil Co U.S. Marshall B #10-M 27-21-37
Operator Lease & Well No. Unit S-T-R

and my recommendations are as follows:

OK

Yours very truly,

Jerry Sexton
Supervisor, District 1

/ed