4/16/97

Mid-Continent Region Production United States

P.O. Box 2409 Hobbs, NM 88241-2409 Telephone 505/393-7106

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March 20, 1997

Mr. David Catanach Energy and Minerals Department Oil Conservation Division P.O. Box 2088 Sante Fe, NM 87501

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 5 UL "M", 660' FSL & 560' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, and Devonian Pools Vacuum Field Lea County, New Mexico

Dear Mr. Catanach:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the above subject well from the Vacuum (Abo), Vacuum (Wolfcamp), and Vacuum (Devonian) pools.

The Devonian zone was abandoned in 1964 due to uneconomical production. The Abo and Wolfcamp zones are currently downhole commingled (DHC-120) and are reaching the producible economic limit. By commingling production from the three zones, production will be realized that could not economically justify the cost of equipment to segregate the Abo/Wolfcamp and Devonian zones. Rod pumping equipment will be utilized to keep the PBHP as low as possible preventing crossflow.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please advise.

Sincerely,

Bryan L. Williams

Production Engineer

BLW//regltory/dhc/coverpag/mcal#5 Enclosure

# EXHIBIT "B" - CASE NO. 11353, ORDER NO. R-10470-A

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II 811 South First St., Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd, Aztec. NM 87410

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# State of New Mexico Energy, Minerals and Natural Resources Department

**OIL CONSERVATION DIVISION** 

2040 S. Pacheco Santa Fe. New Mexico 87505-6429

Form C-107-A New 3-12-96 APPROVAL PROCESS: Administrative Hearing EXISTING WELLBORE \_\_YES \_\_NO

88240

#### APPLICATION FOR DOWNHOLE COMMINGLING

PO Box 2409 Hobbs, NM Marathon Oil Company ddroe

Operator M, Sec.25, T-17-S, R-34-E Unit Lin: - Sec - Twp - Nge Lea 1 McCallister State County Nell No Unit Lease Types: Icheck 1 or i

GRID NO. 014021 Property Code	<u>6431</u> API NO. <u>30</u> -	025-20116 Federal	, State X_, (and/or) Fee
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code	N.Vacuum Abo 61760	Vacuum Wolfcamp 62340	Vacuum Devonian 61980
2. Top and Bottom of Pay Section (Perforations)	8336-9177	9510-9951	12,004-12,106
3. Type of production (Oil or Gas)	011	011	0i1
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	<ul> <li>a. (Current) 100 psi</li> <li>Producing fluid</li> <li>level below perfs</li> </ul>	a. 100 psi Producing fluid level below perfs	a 250 psi Producing fluid lev below perfs
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. <sup>(Original)</sup>	b.	b.
6. Oil Gravity ( <sup>°</sup> API) or Gas BTU Content	39.0	38.3	42.0
7. Producing or Shut-In?	Producing	Producing	Producing
Production Marginal? (yes or no)	Yes	Yes	Yes
<ul> <li>If Shut-In, give date and oil/gas/ water rates of last production</li> <li>Note: For new zones with no production history, applicant shall be required to attach</li> </ul>	Date: Rates:	Date: Rates:	Date: Rates:
<ul> <li>production estimates and supporting data</li> <li>If Producing, give date andoil/gas/ water rates of recent test (within 60 days)</li> </ul>	Date: 2/27/97 Rates: 9,2/28,5/9,5	Date: 2/27/97 Rates: 0.5/1.5/0.5	Date: 2/27/97 Rates: 10/44/50
8. Fixed Percentage Allocation Formula -% for each zone	<sup>0ii:</sup> 47.5 % <sup>Gas:</sup> 38.5%	oil: 2,5 % Gas: 2,0 %	oii: 50.0% Gas: 59.5%

If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.

10. Are all working, overriding, and royalty interests identical in all commingled zones? If not, have all working, overriding, and royalty interests been notified by certified mail? Have all offset operators been given written notice of the proposed downhole commingling?  $\frac{\underline{X}}{\underline{X}} \frac{\underline{Y}es}{\underline{Y}es} - \frac{\underline{No}}{\underline{No}} \frac{\underline{No}}{\underline{No}}$ 

11. Will cross-flow occur? \_\_\_\_Yes X\_\_No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. \_\_\_\_Yes \_\_\_No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? X Yes No

13. Will the value of production be decreased by commingling? \_Yes <u>x\_</u>No

14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. X Yes No

ORDER NO(S).

15. NMOCD Reference Cases for Rule 303(C) Exceptions:

16. ATTACHMENTS:

MENTS: C-102 for each zone to be commingled showing its spacing unit and acreage dedication. Production curve for each zone for at least one year. (If not available, attach explaination.) For zones with no production history, estimated production rates and supporting data. Data to support allocation method or formula. Notification list of all offset operators. Notification list of working, overriding, and royalty interests for uncommon interest cases. Any additional statements, data, or documents required to support commingling.

I hereby certify that the information above is true and comp	lete to the best of my knowledge and belief.
SIGNATURE Traffeller	TITLE Production Engineer DATE 3/21/97
TYPE OR PRINT NAME Bryan L. Williams	TELEPHONE NO. ( 505 ) 393-7106

\_ TELEPHONE NO. ( 505 ) 393-7106

(If Yes, attach explanation)

Hobbs, NM 88241-2409

Telephone 505/393-7106

P.O. Box 2409



March 20, 1997

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Mr. Pete Martinez Commissioner of Public Lands State Land Office Building P.O. Box 1148 Sante Fe, NM 87504-1148

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 5 UL "M", 660' FSL & 560' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, and Devonian Pools Vacuum Field Lea County, New Mexico

Dear Mr. Martinez:

Marathon Oil Company requests administrative approval for an exception to Rule 303-A to permit the downhole commingling of production in the above subject well from the Vacuum (Abo), Vacuum (Wolfcamp), and Vacuum (Devonian) pools.

The Devonian zone was abandoned in 1964 due to uneconomical production. The Abo and Wolfcamp zones are currently downhole commingled (DHC-120) and are reaching the producible economic limit. By commingling production from the three zones, production will be realized that could not economically justify the cost of equipment to segregate the Abo/Wolfcamp and Devonian zones. Rod pumping equipment will be utilized to keep the PBHP as low as possible preventing crossflow.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please advise.

Sincerely,

Bryan L. Williams Production Engineer

BLW//regltory/dhc/coverpag/mcal#5 Enclosure

#### REQUEST FOR EXCEPTION TO RULE 303-A McCallister St. No. 5 Vacuum Field

#### A: Operator

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Marathon Oil Company P.O. Box 2409 Hobbs, NM 88241-2409

#### B: Lease Name and Well Number

McCallister St. No. 5 UL "M" 660' FSL & 560' FWL Sec. 25, T-17-S, R-34-E Lea Co., New Mexico Vacuum: Abo, Wolfcamp, Devonian Pools

#### **C:** Plats and Offset Operators

Attached

Form C-116

D:

Attached

#### E: Production Decline Curves

Attached

#### F: Estimated Bottomhole Pressures

Vacuum (Abo) - 2000 psi Vacuum (Wolfcamp) - 2150 psi Vacuum ( Devonian) - 4000 psi

#### G: Fluid Characteristics

Marathon has downhole commingled the produced fluids from the Abo and Wolfcamp zones without compatibility problems. The addition of the Devonian production will not cause any compatability problems.

#### H: Value

Marathon receives the same price for the products from each zone and value will not be adversely affected.

Request for Exeption to Rule 303-A McCallister St. No. 5 Page 2

## I: Production Allocation

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s,

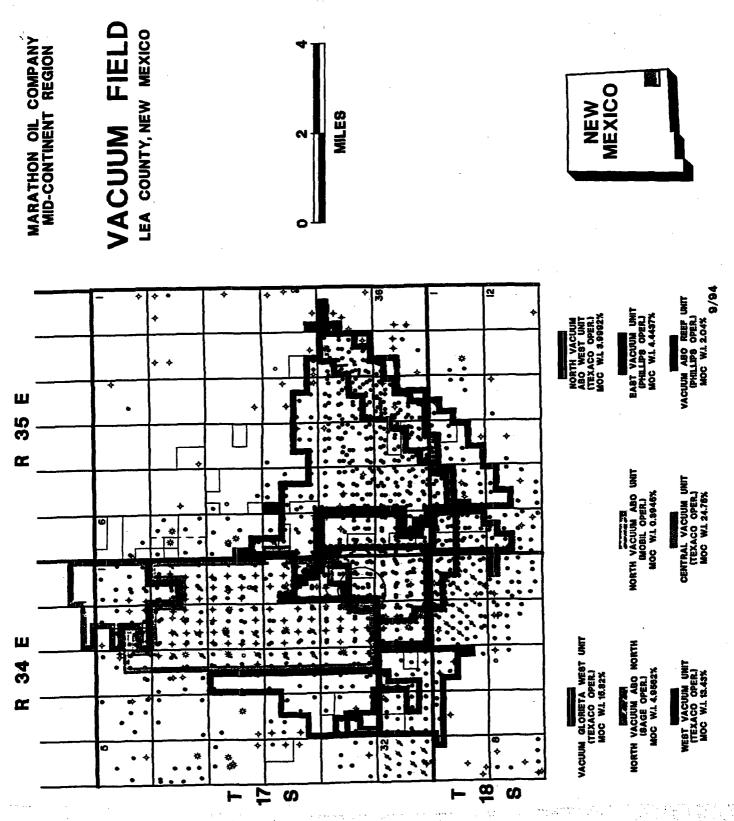
<u>Pool</u>	<b>BOPD</b>	<b>MCFPD</b>	<b>BWPD</b>	<b>Estimate Method</b>
Vacuum (Abo)	9.5	28.5	9.5	Pre-work allocated production
Vacuum (Wolfcamp)	0.5	1.5	0.5	Pre-work allocated production
Vacuum (Devonian)	<u>10</u>	<u>44</u>	<u>50</u>	Post-work incremental production
· · · · ·	20	74	60	Well test on 2/27/97
Allocated Percentag	es <u>Oil %</u>	<u>% Gas %</u>	<u>Water %</u>	
Pre-workover Admin	istrative Order	r No. DHC-120	)	
Vacuum (Abo)	95%	<b>%</b> 95%	95%	
Vacuum (Wolfcamp)	5%	5%	5%	
Post-workover utilizi	ng above prod	luction		
Vacuum (Abo)	47.5	5% 38.5%	16.0%	
Vacuum (Wolfcamp)	2.59	% 2.0%	1%	
Vacuum (Devonian)	<u>50.0</u>	<u>0% 59.5%</u>	<u>83%</u>	
Total	100	) 100	100	

### J: Ownership

Ownership of all zones is common and correlative rights will not be violated.

# K: Offset Operator Notification

By copy of this letter we are notifying all offset operators (attached) of the proposed commingling, by certified mail.



Marathon Oil Company McCallister St. No. 5 UL "M", 660' FSL & 560' FWL Section 25, T-17-S, R-34-E Lea County, New Mexico Vacuum Field

**Offset Operators and Addresses** 

Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705

i.

Mobil Exploration and Producing U.S. Inc. 500 W. Illinois, Midland, TX 79701 P.O. Box 633, Midland, TX 79702-0633

Texaco Exploration and Producing Inc. Heritage Center, Midland, TX 79701 P.O. Box 3109, Midland, TX 79702-3109

Mid-Continent Region Production United States



P.O. Box 2409 Hobbs, NM 88241-2409 Telephone 505/393-7106

March 20, 1997

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Conoco Inc. 10 Desta Drive, Suite 100W Midland, TX 79705

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 5 UL "M", 660' FSL & 560' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, and Devonian Pools Vacuum Field Lea County, New Mexico

Ladies and/or Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation Division to downhole commingle the above referenced well. Please find enclosed 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 below and mail the original to the NMOCD in the enclosed addressed envelope. Also, please return one copy to Marathon at the letterhead address.

Sincerely,

Bryan L. Williams

Production Engineer

BLW/mcal#5 Enclosure

Agreed and accepted this	day of		1995
by		, as	s representative of



P.O. Box 2409 Hobbs, NM 88241-2409 Telephone 505/393-7106

March 20, 1997

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Mobil Exploration and Producing U.S. Inc. P.O. Box 633 Midland, TX 79702-0633

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 5 UL "M", 660' FSL & 560' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, and Devonian Pools Vacuum Field Lea County, New Mexico

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Sincerely,

Zulla

Bryan L. Williams Production Engineer

BLW/mcal#5 Enclosure

Agreed and accepted this	day of	1995
by		, as representative of



P.O. Box 2409 Hobbs, NM 88241-2409 Telephone 505/393-7106

March 20, 1997

•

Texaco Exploration and Production Inc. P.O. Box 3109 Midland, TX 79702-3109

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 5 UL "M", 660' FSL & 560' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, and Devonian Pools Vacuum Field Lea County, New Mexico

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Sincerely,

Aller

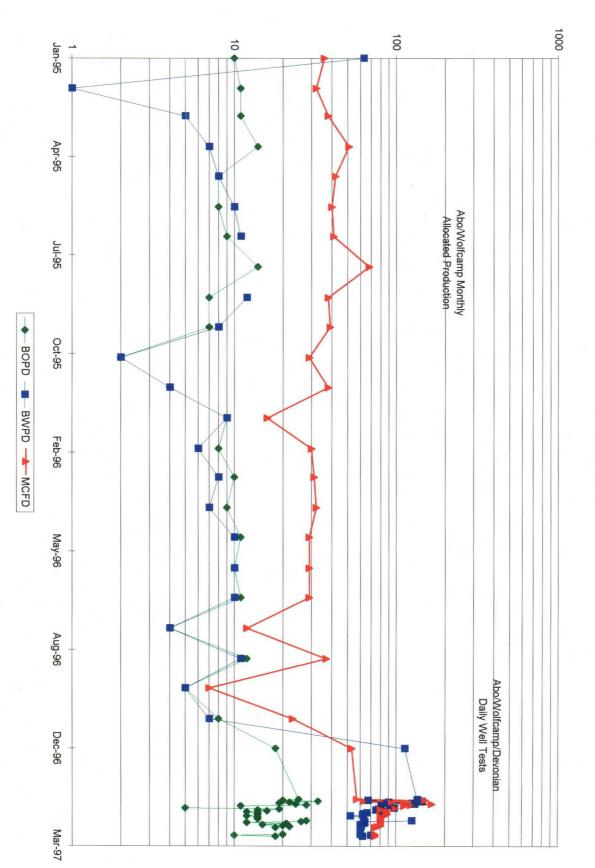
Bryan L. Williams Production Engineer

BLW/mcal#5 Enclosure

Agreed and accepted this	day of	1995
by		, as representative of
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Abo/Wolfcamp/Devonian DHC Application

Sec. 25, T-17-S, R-34-E 660' FSL 560' FWL



McCallister St. No. 5

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3/18/97

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

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**OIL CONSERVATION DIVISION** 

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

> DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

Submit 2 copies to Appropriate District Office. DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

# **GAS - OIL RATIO TEST**

					5	TOTI OTTAN TIO - CAD											
Operator Marathon Oil Company					>.z	Pool N.Vac; Abo Va	Š C:	olfcamp	Vac; Wolfcamp/Devonian			8-	County Lea				, <u> </u>
Address P.O. Box 2409, Hobbs, NM 88240	0						TYPE TEST	TYPE OF TEST - (X)	Scheduled		Ö	Completion		Spe	Special X		
	MELL		LOCATION	TION		DATE OF	SN.	CHOKE	TBG.		LENGTH	PI DI	PROD. DURING TEST	NG TEST		GAS - OIL	
LEASE NAME	ġ	Э	s	⊢	œ	TEST	TAT2	SIZE	PRESS.	ALLOW-	TEST HOURS	WA I EH BBLS.	GHAV.	BBLS.	GAS M.C.F.	CU.FT/BBL	
McCallister State	2	x	25	175	34E	2/27/97	٩		75		24	60		20	74	3700	
DHC Application																	
Zone Oi% Gas%											-						
Abo 47.5 38.5										1 -				9.5	28.5	3000	
Wolfcamp 2.5 0.5														0.5	0.5	1000	
Devonian 50 59.5														10	44	4400	
;															<u> </u>		
For Information Only																	
Instructions:				1	1		1				ereby cer	tify that (	the above	I hereby certify that the above information is true and	tion is tr	ue and	,
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in	ll be pro	duced	at a rate	not ex	ceding	the top unit all	owabl	e for the J	ni looo	3							
which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent toterative in order that well can be assigned increased allowables when authorized by the Division.	nt. Uper owables	ator is when a	encoura	igeu io sd by th	e Divis	vantage of uns ion.				Sig	Signature						
Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 °F.	<sup>7</sup> measu	ed at a	pressur	e base	of 15.0	25 psia and a te	mpera	ture of 60	ен.		Kelly Cook						
орссиис gravity base win us of o.ou. Report casing pressure in lieu of tubing pressure for any well producing through casing.	g pressu	re for a	ny well	produc	ing thr	ough casing.				3/ Bri	Printed name and title 3/21/97	e and titl	Ð	30	393-7106		
(See Rule 301, Rule 1116 & appropriate pool rules.)	riate p	ооl п	ıles.)							Date	e l				Telephone No.	ne No.	
										=							

Marathon Oil Company       State McCallister OR       A       All IU       5         it Letter       Section       Township       Range       County         M       25       17 S       34 E       Lea         tual Footage Location of Well:       660       feet from the       South       line and       560       feet from the       West       line         ound Level Elev.       Producing Formation       Pool       Dedicated Acreage:       1007       Abo       North Vacuum Abo       80       Acree         Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES_X_NO ("Ouner" means the persubo bas the right to drill into and to produce from any pool and to appropriate the production either for bimself or /or bimself and another.       (65-3-29 (e) NMSA 1935 Comp.)         If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YESNO If answer is "yes," Type of Consolidation				CONSERVA					FORM C-128 Revised 5/1/5
SECTION A         State McCallister_COL A Mil 10 With So.         South lise and 560 feet from the West line         March Message Location of Well:         Government is the dedicated acreage collided on the plat balow? YES_X_NO ("Outer" means the per- tab base the right to drill into and to produce from any goal and to appropriate the production either for himself or for himself and morter. (#3-2) (of MSA 1935 Comp.)         It the asswer to question one is "ac," have the interests of all the owners been consolidated by communitization agreement or other wise? YES_NO	· · · · · · · · · · · · · · · · · · ·							- 	.·
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Marathon OIL Company       State McGallister::: A A NU I S         I Letter       25       Townahis         17 S       Rage       County         18 Description of Weilt       Inc.       Lea         1007       Abo       North Vacuum Abo       Dedicated Acreage:         1007       Abo       North Vacuum Abo       Dedicated Acreage:         1007       Abo       North Vacuum Abo       Bo Acreage         1007       Abo       North Vacuum Abo       Commany         1007       Abo       North Vacuum Abo       Bo Acreage         1007       Abo       North Vacuum Abo       Commanitization agreement or other         1007       Abo       North Vacuum Abo       Commanitization agreement or other         1007       Abo       North Vacuum Abo       Commanitization agreement or other         1007       Abo       North Vacuum Abo       Commanitization agreement or other         1007       Abo       North Vacuum Abo       Commanitization agreement or other         1007       No       Commanitization agreement or other       Commanitization agreement or other         1007       No       Certification       Certification agreement or other         1007       Secrion B       Certificatin	erator	<u> </u>						Welh	No.
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Instruction greater beaution of Well:       660       feet from the South line and 560       feet from the South line       Dedicated Acreage:         1007       Abo       Pool       North Vacuum Abo       Bo       Acrea         1007       Abo       North Vacuum Abo       Bo       Acrea         1007       Abo       North Vacuum Abo       Bo       Acrea         11 the Operator the only owned is the dedicated acreage outlined on the production either for binself and and another.       (6)-3-29 (e) MSA 1395 Comp.)       If the answer to question are is "ano," have the interests of all the owners been consolidated by communitization agreement or other wise? YESNO					-				• •
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North Vacuum Abo       Dedicated Acreage: 80       Acrea         1007       Abo       North Vacuum Abo       Acrea         1s the Operator the only owner in the dedicated acreage outlined on the plat below? YES X. NO ("Ouner" means the per who bas the inferito drill incomite from any pool and to appropriate the production either for binnself or for binnself and another. (65-3-29 (e) MMSA 1935 Comp.)       If the answer to question one is "no." Harve the interests of all the owners been consolidated by communitization agreement or other wise? YES NO (Incompting the answer is "yee," Type of Consolidation       CERTIFICATION         If the answer to question one is "no." list all the owners and their respective interests below: meet       CERTIFICATION       Interesty certify that the information in SECTION A hadre is true and com pleting the to the best of any knowledge and belief.         SECTION B       CERTIFICATION         I hereby certify that the information in SECTION A hadre is true and com pleting the to the best of any knowledge and belief.         Marathon Oil Company Date April 2, 1962         Marathon Oil Company Date Acreage         BO Acres Dedicated Acreage         StarEs         "MocCallister"         "MocCallister"         "MocCallister"         "MocCallister"         StarEs	-	1	line and	560	feet	from the	West	line	
Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES_X_NO ("Owner" means the periods be production with or for binned! or for binned! and another. (5-320 (c) NMSA 1935 Comp.) If the answer to question as is "No," have the interests of all the owners been consolidated by communitization agreement or other wise? YES_NO If nowner is "yes," Type of Consolidation		oducing Formation		Pool	· ·			Dedicated A	creage:
who has the right to drill into and to produce from any pool and to appropriate the production either for binnell or for binnell and another. (55-3-29 (e) NASA 1393 Comp.)         If the answer to question can is "bo," have the interests of all the owners been consolidated by communitization agreement or otherwise? YESNO If answer is "yes," Type of Consolidation         If the answer to question can is "bo," list all the owners and their respective interests below:         meet         If the answer to question two is "bo," list all the owners and their respective interests below:         meet         Is the point two is "bo," list all the owners and their respective interests below:         meet         Is the point two is "bo," list all the owners and their respective interests below:         meet         Is the point two is "bo," list all the owners and their respective interests below:         meet         Is the point the information in SECTION B         Is the best of my knowledge and belief.         Narathon         BO Acres         Dedicated         Acreage         Is the same is the same is true and belief.         Ison on the plat is SECTION B was plotted from field notes of any knowledge and belief.         BO Acres         Dedicated         Acreage         Ison on the plat is SECTION B was plotted from field notes of any knowledge and belief.	4007	Abo		North Va	cuum At	00		80	Acre
Marethon BO Acres Dedicated Acreage Marethon Marethon BO Acres Dedicated Acreage Marethon BO Acres Dedicated Acreage Bo Acres Dedicated Acreage Bo Acres Dete Survey Marethon BO Acres Dete Survey Marethon BO Acres Dete Survey Marethon BO Acres Bo Acres Dete Survey Bo Acres Bo A	who has the right to dri another. (65-3-29 (e) If the answer to question	ill into and to produce NMSA 1935 Comp.) on one is "ao," have	from any pool	and to appropriate owner	<i>iate the p</i> s been co	roduction e	itber for bims	self or for bi	mself and
SECTION B SECTION B CERTIFICATION I hereby certify that the information in section of the best of any knowledge and belieff Marathon Marathon BO Acres Dedicated Acreage Marathon STATE STATE SECTION A above is true and con in section A section a section of the section of the section SECTION A above is true and con in section a section of the section of the section SECTION A section of the section of the section SECTION A section of the section of the section of the section SECTION A section of the section of						ests below	:		
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WELL LOCATION AND ACREAGE DEDICATION PLAT         SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE         SECTION A         Operator         Marathon Oil Company         State McCallister         Marathon Oil Company       County         Jait Letter       Section         M       25       17 S         M       25       17 S         M       25       17 S         M       25       17 S         ACtual Footage Location of Well:         660       feet from the South       line and 560       feet from the West       line         Dedicated Acreage:		NEW ME	XICO OIL CON	ISERVATION C	OMM: SSION	FORM C
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itetus Foorsge Location of Well:       650       feet from the South line and 560       feet from the West line         found Level Elev.       Preducing Formation       Pool       Vacuum Wolfcamp       Dedicated Acreage:         1007       Wolfcamp       Fool       Vacuum Wolfcamp       Dedicated Acreage:         1007       Wolfcamp       Fool       Vacuum Wolfcamp       O	Jnit Letter Sec	ction Township	· · · · ·		•	·
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