

April 7, 1999

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

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 11 UL "K", 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Blinebry, Abo, Wolfcamp and Upper Penn 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 Blinebry, Vacuum, Abo; and Vacuum, Wolfcamp; Vacuum, Upper Penn pools.

The Abo, Wolfcamp and Upper Penn zones are currently commingled (DHC-120), and are reaching the producible economic limit. For this reason, Marathon is requesting to downhole commingle the Abo, Wolfcamp, Upper Penn and Blinebry to maximize the economical production from the well. Rod pumping equipment will be utilized to keep the PBHP as low as possible to prevent crossflow.

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

Sincerely,

J.S.KD

Andrew J. Schwandt Production Engineer (505) 393-7106

n:/regitory/commling/dhc/coverpag/MCAL11_B Enclosure



April 7, 1999

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

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 11 UL "K", 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Blinebry, Abo, Wolfcamp and Upper Penn Pools Vacuum Field Lea County, New Mexico

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n:/regitory/commling/dhc/coverpag/MCAL11_A Enclosure

Houston المناني vision Production Operations, United States



P.O. Box 2490 Hobbs, New Mexico 88240 Telephone 505/393-7106

April 7, 1999

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

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 11 UL "K", 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, Upper Penn and Blinebry 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,

Ch 18/4

Andrew J. Schwandt Production Engineer

n:\regitory\commling\dhc\wio\mcall1_a Enclosure

Agreed and accepted this	day of	1998
by		, as representative of



April 7, 1999

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

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 11 UL "K", 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, Upper Penn and Blinebry Pools Vacuum Field Lea County, New Mexico

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Sincerely,

th J.S.h.f

Andrew J. Schwandt Production Engineer

n:\regitory\commling\dhc\wio\mcall1_c Enclosure

Agreed and accepted this	day of	1998
by		, as representative of



_____, as representative of

April 7, 1999

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

Re: Request for Exception to Rule 303-A Downhole Commingling McCallister St. No. 11 UL "K", 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Abo, Wolfcamp, Upper Penn and Blinebry Pools Vacuum Field Lea County, New Mexico

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Sincerely,

J. Sch

Andrew J. Schwandt Production Engineer

n:\regitory\commling\dhc\wio\mcall1_b Enclosure

Agreed and accepted this	day of	1	998
	_ `		

by_

REQUEST FOR EXCEPTION TO RULE 303-A McCallister St. No. 11 Vacuum Field

A: Operator

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

B: Lease Name and Well Number

McCallister St. No. 11 UL K 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Lea Co., New Mexico Vacuum: Abo, Wolfcamp, Upper Penn and Blinebry Pools

C: Plats and Offset Operators

Attached

D: Form C-116

Attached

E: Production Decline Curves

Attached

F: Estimated Bottomhole Pressures

Vacuum (Blinebry) – ±500 psi Vacuum (Abo) - ±500 psi Vacuum (Wolfcamp) - ±500 psi Vacuum (Upper Penn) - ±500 psi

G: Fluid Characteristics

Marathon has downhole commingled the produced fluids from the Abo, Wolfcamp and Upper Penn zones in McCallister State No. 12 and downhole commingled the produced fluids from the Abo, Wolfcamp and Blinebry zones in the McCallister State No. 5. These wells are produced to the same battery without compatibility problems. The addition of the Blinebry production in the McCallister State No. 11 will not cause any compatibility 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. 11 Page 2

I: Production Allocation

<u>Pool</u>	<u>BOPD</u>	<u>MCFPD</u>	<u>BWPD</u>	Estimate Method
Vacuum (Blinebry)	21	27	38	Post-work incremental production
Vacuum (Abo)	9	24	10	Pre-work allocated production
Vacuum (Wolfcamp)	12	27	2	Pre-work allocated production
Vacuum (Upper Penn) <u>5</u>	<u>_6</u>	<u>29</u>	Pre-work allocated production
	47	84	79	Well test on 3/20/99
Allocated Percentag	<u>es Oil </u>	<u>% Gas %</u>	<u>Water %</u>	
Pre-workover Admini	istrative Orde	r No. DHC-1	20	
Vacuum (Abo)	33	% 43%	24%	
Vacuum (Wolfcamp)	48	% 47%	5%	
Vacuum (Upper Penn	i) 19	% 10%	71%	
Post-workover utilizi	ng above pro	duction		
Vacuum (Blinebry)		.7% 32.1%	48.1%	
Vacuum (Abo)	19	.2% 28.6%		
Vacuum (Wolfcamp)	25	.5% 32.1%	2.5%	
Vacuum (Upper Penr		.6% 7.2%		
Total		00 100	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.

District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	ſ		² Pool Code				³ Pool Name	,		
30-25-326	47		61850				Vacuum; B11	nebry		
⁴ Property Code				5 Proj	perty Na	me			6 1	Well Number
6431				McCall	ister	State				11
7 OGRID No.				8 Ope	rator Na	me			9	Elevation
014021			4	larathor	<u>011</u>	Company			GL 4	008 KB 4026
			10	Surface	Locati	on				
UL or lot no. Section	Township	Range	Lot. Idn	Feet from		North/South Line	Feet from the	East/W		County
K 25	17S	34E		19		South	850	We	st	Lea
		¹¹ Bo	ttom Hole L	ocation 1	lf Diffe	rent From Surfac	æ			
UL or lot no. Section	Township	Range	Lot. Idn	Feet from	n the	North/South Line	Feet from the	East/W	est line	County
12 Dedicated Acres 13 Joint	or Infill 14	Consolidation	Code 15 Or	der No.			•			
40										
NO ALLOWABLE V	VILL BE AS	SSIGNED '	TO THIS CONDARD UN	OMPLE	FION U BEEN	JNTIL ALL INT APPROVED B	ERESTS HAV	e been On	N CON	SOLIDATED
160 Acre Lease () 2134'	.226		HOA Dedie	leres cated			I hereby certify to true and complete Signature Andrew J. Printed Name Production Title 1-5-99 Date I hereby certify to was plotted from	hat the is to the base Schwar Engli EYOR (hat the w field noi supervisit est of my b	formation est of my b ndt neer CERTII ell location tes of according on, and elief.	ICATION a contained herein is thowledge and belief.

District I

PO Box 1980, Hobbs, NM 88241-1980

District II

811 S. 1st Street, Artesia, NM 88210-2834

District III

1000 Rio Brazos Rd., Aztec, NM 87410 District IV

2040 South Pacheco, Santa Fe, NM 87505

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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

30-025-32647 62320 Vacuum - U. Penn ⁴ Property Code ³ Property Name ⁶ Well Number 6431 McCallister State 11 ⁷ OGRID No. ⁸ Operator Name ⁹ Elevation 14021 Marathon 011 Company 4013° UL or lot no. Section 25 17S 34E 1927° South 2134° West Lea			umber	¹ API Num	1
4 Property Code 3 Property Name 6 Well Number 6431 McCallister State 11 7 OGRID No. 8 Operator Name 9 Elevation 14021 Marathon 0il Company 4013' UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County K 25 17S 34E 1927' South 2134' West Lea	62320		-32647	30-025-3	3
Noted 1119000 Source 7 OGRID No. 8 Operator Name 9 Elevation 14021 Marathon 011 Company 4013° ¹⁰ Surface Location UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County K 25 17S 34E 1927° South 2134° West Lea					
7 OGRID No. 8 Operator Name 9 Elevation 14021 Marathon 0il Company 4013° ¹⁰ Surface Location UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County K 25 17S 34E 1927° South 2134° West Lea	1			431	643
UL or lot no. Section Township Range Lot. Idn Feet from the Morth/South Line Feet from the East/West line County VL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County K 25 17S 34E 1927' South 2134' West Lea	-				
¹⁰ Surface Location UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County K 25 17S 34E 1927* South 2134* West Lea	Ma			4021	140
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			5 175	25	к
¹¹ Bottom Hole Location If Different From Surface	¹¹ Bottom Hole Lo	11			
UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County	Range Lot. Idn	ownship Rang	on Townshi	Section	UL or lot no.
			1		
¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.	⁴ Consolidation Code 15 Orde	Infill ¹⁴ Consolie	Joint or Infill	cres 13 Jo	12 Dedicated Acr
80					80
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED	SSIGNED TO THIS CO	L BE ASSIGN	E WILL BE	OWABLE	NO ALLO
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION	NONSTANDARD UNI	OR A NON-S	OR	0 110000	NO ALLO
¹⁷ OPERATOR CERTIFICATION			,	<u> </u>	
I hereby certify that the information contained herei true and complete to the best of my knowledge and be					
Signature / M				1	1 1
160 Acre Least Printed Name				icre	160 HC
Least Printed Name				55	Leas
Production Engineer					1
L 1-5-99					L
Date					4
18 SURVEYOR CERTIFICATION		1111			
1 SO Acres 1 hereby certify that the well location shown on this	X 80 A		1		
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and correct to the best of my betief.	9 E,	9			
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Signature and Seal of Professional Surveyer:			1		
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	1 17	2	1		
Certificate Number			1		
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District I PO Box 1980, Hobbs, NM 88241-1980 District II 811 S. 1st Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources Department

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1	API Number			² Pool	Code	1		³ Pool Name	•		
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4 Property					5 p	roperty Na	ne			61	Well Number
643	1				McCa	<u>llister</u>	State				
7 OGRID	No.					perator Na				9	
1402	21						Company				4013
·					¹⁰ Surfa	ce Locat					·····
UL or lot no.	Section	Township	Range	Lot. Id		rom the	North/South Line	Feet from the		est line	County
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			¹¹ Bo	ttom H	ole Locatio	n If Diffe	rent From Surfac	æ			
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12 Dedicated Acre	s ¹³ Joint	or Infill	Consolidation	Code	15 Order No.		•	.	•		
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NO MEDO		ORAI	NONSTAL	NDAR	D UNIT H	AS BEEN	APPROVED B	Y THE DIVISION	ON		
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160 Acro Lease								Printed Name			
Lease	1							Production	n Engli	neer	
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District I PO Box 1980, Hohbs, NM 88241-1980 District II 811 S. Ist Street, Artesia, NM 88210-2834 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505 Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

AMENDED REPORT

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30	-025-326	47		617	760			Vacuum -	Vacuum - Abo		
⁴ Property		T			⁵ Pro	perty Na	me			6 V	Vell Number
6431					McCall	ister	State	<u></u>			11 Elevation
7 OGRID	No.				8 Ope	rator Na	mo			,	
1402	21						Company				4013
						e Locat			T	- <u></u> -1	
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12 Dedicated Acres	s ¹³ Joint	or Infill	Consolidation	Code	15 Order No.		· ··· ································				
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110 11220 1		OR A I	NONSTA	NDAR	D UNIT HAS	S BEEN	N APPROVED B	Y THE DIVISI	ON		
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								C.	7	8	
160 Ac.	re							Signature Andrew J. Schwandt Printed Name			
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2134'	134'		9	80 Acres Ocdicated							
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			L_ł					Certificate Num	ber	·	
		777	7 /								

Marathon Oil Company McCallister St. No. 11 UL "K", 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Vacuum Field Lea County, New Mexico

Offset Operators and Addresses

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

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 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

OIL CONSERVATION DIVISION 2040 Pacheco St. Santa Fe, NM 87505

DISTRICT II 811 S. 1st Street, Artesia, NM 88210-2834 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

GAS - OIL RATIO TEST

Onerator					-	Pool					8	County			
Marathon 011 Company						Vacuum;	Blinebry, Ab	Abo. Wolfcamp. Upper Penn	mp. Uppe	er Penn				Lea	
Address P.O. Box 2490 Hobbs, NM 88240	9						TYPE OF TEST - (X)	Scheduled		ö	Completion	Π	Š	Special X	r 1
				LOCATION			1		DAILY	LENGTH		PROD. DURING TEST	RING TEST		GAS-OIL
LEASE NAME	MELL WELL	_	S	+	œ	DATE OF TEST	SIZE SIZE	PRESS.	ALLOW- ABLE	OF TEST HOURS	WATER BBLS.	GRAV OIL	OIL. BBLS	GAS M.C.F.	RATIO CU.FT/BBL
McCallister State	11	×	25	17S	34E	3/20/99	d			24	62		47	84	
DHC Application															
Zone 011 Gas Wtr															
Blinebry 44.7 32.1 48.1						-					38		21	27	1286
Abo 19.2 28.6 12.7											10		6	24	2667
Wolfcamp 25.5 32.1 2.5											2		12	27	2250
10 Denn 10 6 7 2 36 7											29		പ	و	1200
FOR INFORMATION ONLY															
Instructions:	-								1 3	I hereby certify that the above information is true and complete to the best of my-knowledge and belief.	tify that the best of	he above of my-kn	: informa owledge	tion is tr and belig	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 which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in	hall be p cent. Op	roduce erator i	d at a ri s encou	ate not iraged	exceedi to take	ng the top unit advantage of th	allowable for the is 25 percent tole	e pool in erance in	1		Y	\mathcal{N}	X	\backslash	
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.	allowable CF meas	es when ured at	a press	ized by ure ba	/ the Di se of 15	vision. .025 psia and 2	temperature of (60 °F.	ස් අ 	Signaturé	Schwand	4	Produc	Production Engineer	ng tineer
Specific gravity base will be 0.50. Report casing pressure in lieu of tubing pressure for any well producing through casing.	ing press	sure for	w fue .	ell proc	lucing t	hrough casing.				Printed name and title	ie and titl	v	U.S.	393-7106	

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

Telephone No.

Date



WELL TEST PRODUCTION

MEIT LERI LHODE UON

EXHIBIT "B" - CASE NO. 11353, ORDER NO. K-104/0-A

DISTRICT I P.O. Box 1980. Hobbs. NM 88240

DISTRICT II 811 South First St., Artesis, NM 88210 DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department **OIL CONSERVATION DIVISION**

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

APPROVAL PROCESS: X Administrative Hearing **EXISTING WELLBORE** X YES NO

 $\begin{array}{c} \overset{X}{-} \overset{Yes}{\operatorname{Yes}} \\ \overset{Wo}{-} \overset{No}{\operatorname{Yes}} \end{array} \begin{array}{c} \overset{No}{-} \\ \overset{No}{\operatorname{No}} \end{array}$

Х

Form C-107-A New 3-12-96

APPLICATION FOR DOWNHOLE COMMINGLING

1000 Nie Brazes Rd. Aztec. NM 87410

PO Box 2490 Hobbs. NM 88240 Marathon Oil Company

Uperato UL K, Sec.25, T-17S, <u>R-34E</u> McCallister State 11 Lea VAL N yo Unit Lease Types: Icheck 1 or

, State X . land/or) Fee 014021 Property Code 6431 API NO. 30-025-32647 Federal OGRID NO.

The following facts are submitted in support of downhole commingling:	Upper Zon#	Intermediate Zones	Lower Zone
1. Pool Name and Pool Code		Vacuum; Wolfcamp 62340	Vacuum: Upper Penn 62320
2. Top and Bottom of Pay Section (Perforations)		9273 - 9917'	10,044 - 10,082'
3. Type of production (Oil or Gas)		011	0i1
4. Method of Production (Flowing or Artificial Lift)			
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	a. (Current)	. 500	a. 500
Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	b. (Original)	b.	b.
6. Oil Gravity ([°] API) or Gas BTU Content		35	35
7. Producing or Shut-In?		Producing	Producing
Production Marginal? (yes or no)		Yes	Yes
 If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach 	Date: Rates:	Date: Rates:	Date: Rates:
 If Producting, give date andoil/gas/ water rates of recent test (within 60 days) 	Date: Rates:	Date: 3/20/99 Rates: 12/27/2	Date: 3/20/99 Rates: 5/6/29
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: % %	o:: 25.5% Gas32.1%	^{Oil:} 10.6 % ^{Ges:} 7.2 %

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?

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 (If No, attach explanation) 11. Will cross-flow occur?

ORDER NO(S).

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

Yes X No 13. Will the value of production be decreased by commingling? (If Yes, attach explanation)

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. ___Yes ___No

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

16. ATTACHMENTS:
* 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 complete to the best of my knowledge and belief.

SIGNATURE	TITLE Production Eng. DATE 4/7/99
TYPE OR PRINT NAME Andrew J. Sc	TELEPHONE NO. (505) 393-7106

EXHIBIT "B" - CASE NO. 11353, ORDER NO. K-104 /0-A

DISTRICT ! P.O. Box 1980, Hobbs, NM 88240

DISTRICT II 811 South First St., Artesis, NM 88210 DISTRICT III 1000 file Brazes Rd, Aztad, NM 87410

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: X Administrative Hearing EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

X YES NO

PO Box 2490 Hobbs, NM 88240 Marathon Oil Company

104/810 К, Sec.25, T-17S, R-34E Lea UL 11 <u>McCallister State</u> Types: Unit Lease

, State X 30-025-32647 _, land/or) Fee 6431 Federal 014021 API NO. Property Code OGRID NO.

The following facts are submitted in support of downhole commingling:	Upper Zons	Internediate Zones	Lower Zone
1. Pool Name and Pool Code	Vacuum; Blinebry 61850	Vacuum: Abo 61760	
2. Top and Bottom of Pay Section (Perforations)	6412 - 6712'	8383 - 9252'	
3. Type of production (Oil or Ges)	0i1	011	
4. Method of Production (Flowing or Artificial Lift)			
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current	a. (Current) 500 b. (Original)	a. 500 b.	a. b.
All Gas Zones: Estimated Or Messured Original	U.		
6. Oil Gravity ([°] API) or Gas BTU Content	38	38	
7. Producing or Shut-In?	Producing	Producing	
Production Marginal? (yes or no)	Yes	Yes	
 If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to strech 	Date: Rates:	Date: Rates:	Date: Rates:
 production estimates and supporting data If Producing, give date andoil/gas/ water rates of recent test (within 60 days) 	Date: 3/20/99 Rates: 21/27/38	Date: 3/20/99 Rates: 9/24/10	Date: Rates:
B. Fixed Percentage Allocation Formula -% for each zone	On: 44.7 % Gas: 32.1 %	OH: 19.2 % Gas: 28.6 %	Dit: Gas: %

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? X Yes No Yes 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 (If No, attach explanation)

ORDER NO(S).

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

(If Yes, attach explanation) Yes X No 13. Will the value of production be decreased by commingling?

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. ___Yes ___No

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Any additional statements, data, or documents required to support commingling.

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

SIGNATURE	TITLE Production Eng. DATE 4/7/99
TYPE OR PRINT NAME Andrew J. Schwandt	TELEPHONE NO. (505) 393-7106