

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

January 27, 1995

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

Re: Request for Exception to Rule 303-A Downhole Commingling Marathon Oil Company McCallister State No. 11 UL "K" 1927' FSL & 2134' FWL Section 25, T-17-S, R-34-E Upper Penn, Wolfcamp, Abo 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 (Upper Penn), Vacuum (Wolfcamp) and Vacuum (Abo) Pools in Lea County, New Mexico.

The Wolfcamp zone was completed and is now producing. Based on log evaluation and historic offset production, commercial Abo and Upper Penn production is anticipated. The three zones have been downhole commingled in offset production with no loss of product value or production. By commingling production from the three zones, production will be realized that could not economically justify the cost of equipment to segregate the zones. Rod pumping equipment will be utilized which will 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 contact me at (915) 682-1626.

Sincerely,

Thomas menice

Thomas M. Price Advanced Engineering Technician

TMP/9504/

Enclosure

Linghe diam, chi JSX Corporation

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

- A. <u>Operator</u> Marathon Oil Company P. O. Box 552 Midland, TX 79702
- B. <u>Lease Name and Well No</u>. McCallister State No. 11 UL "K" 1927' FSL & 2134' FWL Sec. 25, T-17-S, R-34-E Lea County, New Mexico
- C. <u>Plats and Offset Operators</u> Attached
- D. <u>C-116's</u> Attached
- E. <u>Production</u> Decline Curves attached
- F. <u>Estimated Bottomhole Pressures</u> Vacuum (Upper Penn) - 1750 Vacuum (Wolfcamp) - 2150 Vacuum (Abo) - 2000
- G. <u>Fluid Characteristics</u> Marathon has surface commingled the produced fluids from all three zones without compatibility problems.

T	<u>Value</u>	Est Daily Prod BOPD	API <u>Gravity</u>	Avg <u>\$/Bbi</u>	Avg Daily <u>Income</u>
	N. Vacuum (Abo) Vacuum (Wolfcamp Vacuum (Upper Penn)	25 37 <u>15</u> 77	39.0 38.3 <u>39.9</u>	16.00 16.00 16.00	\$400.00 \$592.00 <u>\$240.00</u> \$1,232.00

WTD API Grow = ((25 x 39.0)) + (37 x 38.3) + (15 x 39.9)) / 77 = 38.8

77 BPD x \$16.00 = \$1232 Avg Revenue Commingled Prod.

TMP/9505/r

# \$1232.00 - \$1232.00 = \$0/day loss in value.

Request for Exception to Rule 303-A McCallister State No. 11 Page 2

# I. <u>Production Allocation</u> (Estimated)

Pool	BOPD	MCFPD	BWPD	Method
N. Vacuum (Abo) Vacuum (Wolfcamp) Vacuum (Upper Penn)	25 37 <u>15</u> 77	75 82 <u>17</u> 174	5 21 <u>15</u> 41	Est Pumping Est
Allocated Percentages	<u>Oil %</u>	Gas %	Water %	
N. Vacuum (Abo) Vacuum (Wolfcamp) Vacuum (Upper Penn)	32.5 48.1 <u>19.4</u> 100	43.1 47.1 <u>9.8</u> 100	12.2 51.2 <u>36.6</u> 100	

Test

- J. <u>Ownership</u> Ownership of all zones is in common and correlative rights will not be violated.
- K. <u>Offset Operator Notification</u> By copy of this letter we are notifying all offset operators (see list, Item C) of the proposed commingling, by certified mail

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## 'NTRACOMPANY CORRESPONDENCE

то	T. M. Price	DATE	January 23, 1995 J. F. Rasnak Kund
OFFICE	Midland, Texas	FROM	J. F. Rasnak Munich
		OFFICE	Midland, Texas
SUBJECT			

Re: Downhole Commingle Application Our Lease NM-268 - State of New Mexico B-2706 SW/4 Section 25, T-17-S, R-34-E, Lea County, New Mexico

Pursuant to your request dated January 19, 1995, the following are the offset operators to our McCallister State Lease, referenced above, for the Abo and Wolfcamp formations:

#### T-17-S, R-34-E:

Section 25: N/2 & SE/4

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

Texaco Exploration and Production Inc. P. O. Box 46513 Denver, CO 80201-6513

Section 26: E/2

Mobil Exploration & Producing U.S. Inc.

Section 35: NE/4

Conoco Inc. 10 Desta Dr., Ste 100W Midland, TX 79705

Section 36: N/2

Texaco Exploration and Production Inc.

If anytning furhter is needed, please advise.

JFR;mmc'

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 DISTRICT III 1000 Kin Brazos Rd., Aziec, NM 87410	Energy, M OIL CO Sa	es Department Form C-116 Revised 1/1/89 2088
	GAS - OIL RATIO TEST	ST
Operator Masathon Oil Company		LEA
, TX	79702	
	WELL LOCATION DATE OF P CHOME T   NO. U S T H TEST 2 CHOME T PF	AS BALS OIL BALS MC.F
McCallister State	11 K 25 17 34 ESTIMATE NA NA	
Estimated Test.		
For informational use only		
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Gas volumes must be reported Specific gravity base will be 0.60 Report casing pressure in lieu o	Gas volumes must be reported in MCF measured at a pressure base of a two approximation of the providence of the field of the pressure for any well producing through clasing Report casing pressure in lieu of tubing pressure for any well producing through clasing.	
(See Rule 301, Rule 1116 & appropriate pool rules.)	appropriate pool rules.)	

Submit 2 copies to Appropriate District Office. DISTRICT 1		_		ergy.		State of ison Alessoo Energy, Minerals and Natural Resources Department OTT CONSERVATION DIVISION	atural TT		nees Dep DIVIS	epartment					Form Revis	Form (*-116 Revised 1/1/89
DISTRICT II P O Drawer DD, Anesia, NM 88210 DISTRICT III DISTRICT III TOXI Rui Brazus Rd., Aziec, NM 87410			(	(	Santa	P.O. Box 2088 Santa Fe, New Mexico 87504 2088	Box 2 Mexic	2088 20 8750	4 2088							
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Operator					VAC		CAMP						County LEA			
Marathon Oil Company							TYPE OF	유 	:	•				,	- - -	
Address P.O. Box 552, Midland, TX 79	79702				•		11 ST - (X)	- (X)	Scheduled		C	Completion		PROD DURING TEST	ST	GAS - OIL
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McCallister State	1	*	25	17	34	1/20/95	q	N N	NA	3	1	7				
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Gas volumes must be reported in MCF measured at a pressure have of 15 to a producing Gas volumes must be 0.60. Specific gravity hase will be 0.60. Report easing pressure in heu of tubing pressure for any well producing through easing	n MCF meas f tubing press	ared at a	any we	ure has all prod	e of the	nough casure					Printed name and title 1/26/95	ame and 5	title		915/6	915/682/1626 Telephone No
(See Rule 301, Rule 1116 & appropriate pool rules.)	ppropriate	pool	rules.							•	DAIC					

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District Office DISTRICT 1 PO Box 1980, Hobbs, NM 88240	OII	<b>OIL CONSERVATION DIVISION</b>		
DISTRICT II P.O. Drawer DD, Arlesia, NM 88210		P.O. Box 2088 Santa Fe, New Mexico 87504 2088		
DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410				
		GAS - OIL RATIO TEST		
Charathr		Pool Pool	(county LEA	
Marathon Oil Company			Completion Special X	
Address P.O. Box 552, Midland, TX 79702	02	151 (X)	PROD DURING TEST	GAS - OIL
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Estimate test.				
For informational use only				
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(See Rule 301, Rule 1116 & appropriate pool rules.)	propriate pool rules	.)	Date	

Form C-116 Revised 1/1/89

State of New Nicston Energy, Mimerals and Natural Resources Department





ABO



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

January 27, 1995

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

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

Dear Mr. Martinez:

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TMP/9506/

Enclosure

A subsidiary of USX Corporation

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YOUR INV. NO.	DESCRIPTION	AMOUNT
CR 257141	Downhole Commingle Permit Application McCallister St. #11	\$30.00
	YOUR INV. NO.	THE ATTACHED CHECK IS IN PAYMENT OF ITEMS DESCRIBED BELOW   YOUR INV. NO. DESCRIPTION   YOUR INV. NO. DESCRIPTION   CR 257141 Downhole Commingle Permit Application

Mid-C hent Region Production United States



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

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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 attached addressed envelope. Also, please return one copy to Marathon at the letterhead address.

Sincerely,

Thomas miner

Thomas M. Price Advanced Engineering Technician

TMP/9501/Ir Enclosure

by\_\_\_\_\_

Agreed and accepted this day of	Agreed and accepted this	day of		1994
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\_\_\_\_\_,as representative of

Mid-C nent Region in United States Produ.



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

January 27, 1995

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

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Thomas M. Price Advanced Engineering Technician

TMP/9502/m Enclosure

Agreed and accepted this day of	1994
by	as representative of

Mid-Confinent Region Produce United States



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

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

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Thomas reprice

Thomas M. Price Advanced Engineering Technician

TMP/9503/ Enclosure

by\_\_\_

	برمام	~	1994
Agreed and accepted this	day	01	

\_\_\_\_,as representative of

Mid-Con....ent Region Production United States



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

January 27, 1995

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Thomas M. Price Advanced Engineering Technician

TMP/9502/lr Enclosure

Agreed and accepted this <u>22 nd</u> day of	February 1994	5
by James Heard /18FH	,as representative of	
Texaco E+P Inc.		