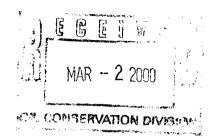
Mid-Continent Region **Production United States** 



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

February 28, 2000

Mr. David Catanach Oil Conservation Department 2040 South Pacheco Santa Fe, New Mexico 87501



RE:

Request for Exception to Rule 303-A

**Downhole Commingling** Jicarilla Apache No. 13E 1850' FNL & 930' FWL

Unit Letter "E", Section 33, Township 26-N, Range 5-W

Chacra, Blanco Mesa Verde & Basin Dakota

Jicarilla Field

Rio Arriba 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 Chacra, Blanco Mesa Verde and the Basin Dakota pools in Rio Arriba County, New Mexico. Marathon also requests a 30 day exception to Rule 303-A to permit the downhole commingling of production while awaiting for approval of this application. If this application is not approved, then the well will remain as a dual producer from the Blanco Mesa Verde and the Basin Dakota pools.

All three pools represent marginal production. The well was drilled and completed as a dual producer in the Blanco Mesa Verde and the Basin Dakota pools in 1981. The Morrison had been perforated first, but after testing wet, the Morrison perfs were isolated before moving uphole to the Basin Dakota and the Blanco Mesa Verde. In 1995, approval was granted by the New Mexico Oil Conservation Division to downhole commingle the Blanco Mesa Verde and the Basin Dakota. Plans are to add perforations in the Chacra and downhole commingle all three pools.

By downhole commingling the production from these three zones, production will be realized that could not economically justify the cost of equipment to separate the zones. Rod pumping equipment will be utilized to keep the PBHP as low as possible. Producing the well in this manner will allow complete development of the productive capacity of the well, prevent crossflow and extend the economic life of both completions, thereby preventing waste.

Enclosed is pertinent data to support this application as outlined in Rule 303-A. If additional information is necessary, please contact me at (915) 687-8268. 39 miles January Resource (199 miles on the Same of th

Sincerely,

Tim L. Chase

Advanced Engineer Technician

A subsidiary of USX Corporation

## **REQUEST FOR EXCEPTION TO RULE 303-A**

Jicarilla Apache No. 13, Jicarilla Field

A: Operator

Marathon Oil Company
P.O. Box 552, Midland, Texas 79702-0552

B: Lease Name and Well Number

Jicarilla Apache No. 13E 1850' FNL & 930' FWL, Unit Letter "E", Section 33, Township 26-N, Range 5-W Jicarilla Field, Rio Arriba County, New Mexico Chacra, Blanco Mesa Verde, Basin Dakota

C: Plats and Offset Operators

Plat attached. Offset operator list not attached since offset operators no longer need to be notified.

D: C-116's

Attached.

E: Production Decline Curves

Attached

F: Estimated Current Bottomhole Pressures (PSI)

Chacra = 325, Blanco Mesa Verde = 350, Basin Dakota = 375

**G:** Product Characteristics

Previous commingling of these zones by Marathon and other operators in this area have shown that the produced fluids are compatible and commingling will not cause formation damage

H: Value

Marathon receives the same price for product from these zones, so value won't be adversely affected

1: Production Allocation

POOL POOL	<u>BOPD</u>	MCFPD	<u>BWPD</u>	<u>Estimation</u>	<u>Methods</u>	
Chacra	0	100	0	Post-Worko	ver Estimate	
Blanco Mesa Verde	3	18T 134	2	Current Pr	oduction	
Basin Dakota	1	66	0	Current Pr	oduction	
Total	4	347	2			
Allocated % Chacra Blanco Mesa Verde Basin Dakota		<i>3</i> 60 Total	Oil % 0.00 75.00 25.00 100/00	Gas Water % 28.82 0/00 52/16 100.00 19.02 0.00 100.00 100.00	OK % 0 % 75% 25%	GAS % 33% 45% 22%

### J: Ownership

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

K: Offset Operator Notification

Offset operators are not provided with a copy of this application since they no longer need to be

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Submit 2 copies to Appropriate District Office.

DISTRICT 1 P.O. Box 1980, Hobbs, NM 88240

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

000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

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

**Revised 1/1/89** Form C-116

# GAS - OIL RATIO TEST

Operator  Manathon 041 Company						Pool	-	Blan	oo Mes	Blanco Mesa Verde	di.		<u></u>	County	Rto	Rio Arriba	
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P.O. Box 2490 Hobbs, NM 88240	8240						_	TEST - (x)		Scheduled		Õ	Completion	×	ភ	Special	_
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LEASENAME	WELL NO.	] =	-	S	-	R DATE OF TEST	<u></u>	CHOKE SIZE SIZE SIZE SIZE SIZE SIZE SIZE SIZ		TBG. PRESS.	ALLOW-	OF TEST HOURS	WATER BBLS.	GRAV.	OIL BBLS.	GAS M.C.F.	RATIO CU.FT/BBL
Jicarilla Apache	13E	ш	33		26N 5W	12/21/99	66/	<u> </u>	53	_		24	2		60	事个	60,334
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	1		-								1.1	I hereby certify that the above information is true and	tify that t	the above	e informa	tion is tr	ne and

Instructions:

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

complete to the best of my knowledge and belief.

Signature

Printed name and title Kelly Cook

December 28, 1999 Date

505/393-7106

Records Processor

relephone No.

Revised 1/1/89 Form C-116

State of New Mexico Energy, Minerals and Natural Resources Department

# **OIL CONSEVATION DIVISION**

2040 Pacheco St. Santa Fe, NM 87505

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

P.O. Box 1980, Hobbs, NM 88240

DISTRICT

Submit 2 copies to Appropriate District Office.

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICTIII

# GAS - OIL RATIO TEST

Operator					$\vdash$	Pool						10	County				_
Marathon Oil Company								Bagin	Ragin Darota				•	Ω.i.o.	Rio Arriba		
MATAMAN OFT CONDAIN					-			111	PROPER						2777		Т
Address P.O. Box 552 Midland, TX 79702	22						TYPE OF TEST - (X)	 ⊬⊗	Scheduled		ŏ	Completion		S	Special X	ra.	
			၂ ပိ	LOCATION			ட	Į,		DAILY	LENGTH		PROD. DI	PROD. DURING TEST	ΣŢ	GAS-OIL	<u> </u>
LEASE NAME	WELL NO.	ם	တ	 	œ	TEST	JTAT2	SIZE	PRESS.	ALLOW- ABLE	OF TEST HOURS	WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	RATIO CU.FT/BBL	1
Jicarilla Apache	13E	ম	33	26N	SW	66/61/11	[54 -		35		24	0	39	н	99	N/A	
Instructions:									] :		I hereby certify that the above information is true complete to the best of my knowledge and belief.	rtify the	at the ab st of my	ove info knowle	ormation edge and	I hereby certify that the above information is true and complete to the best of my knowledge and belief.	l <del>o</del>

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.

Advanced Engineer Technician

Printed name and title

2/9/00 Date

Tim L. Chase Signature

Telephone No.

(915) 687-8268

Specific gravity base will be 0.60.

Report casing through casing.

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

# 1000 100 Or 700-A A A COND, BPD JICARILLA 13E **♦♦♦ GAS, MCFPD** Midland Operations Allocated Production Data WTR, BWPD DISP, BPD **BLANCO MESA VERDE** OIL, BOPD INJ, BPD 中中山 100 OL 1000 PRODUCTION BY CALENDAR DAY

PRODUCTION BY CALENDAR DAY

# 1000 100 01 4007 A A A COND, BPD JICARILLA 13E ♦ ♦ ♦ ♦ GAS, MCFPD Midland Operations Allocated Production Data WTR, BWPD DISP, BPD BASIN DAKOTA OIL, BOPD INJ, BPD 100 OL 1000

PRODUCTION BY CALENDAR DAY

PRODUCTION BY CALENDAR DAY

**CONSERVATION DIVISION** 0

P. O. BOX 2088

WRF

STATE OF NEW MEXICO

**CHERGY AND MINERALS DEFARTMENT** SANTA FE, NEW MEXICO 87501 All distances must be from the cuter houndaries of the Section. Well No. Operator Legse 13E MARATHON OIL COMPANY JICARILLA APACHE Unit Letter Section Township County Rio Arriba 26N 5W Actual Footage Location of Well: 1850 North line and iest from the feet from the line Ground Level Elev. Producing Formation Dedicated Acreage: **Blanco Mesaverde** Point Lookout 6598 320 Acres 1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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? If answer is "yes;" type of consolidation \_\_\_\_\_N/A T Yes ☐ No 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 Commis-BLANCO MESAVERDE CERTIFICATION 11-16-81. DALE T. CADDY I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Dale T. Caddy Well #13E <u>District Operations Manage</u> 9301 Marathon Oil Company Sec. <u>April 15, 1980</u> 33 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. Original LAKO SURVERO Registered Professional

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

	AMENDEL	REPORT
--	---------	--------

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

PO Box 1980, Hobbs, NM 88241-1980

District I

District II

District III

1000 Rio Brazos Rd. District IV 2040 South Pacheco			,					-	_ AMEN	NDED REPORT
		WEL	L LOC	ATION	AND AC	REA	GE DEDICA	TION PLAT	Γ	
1	API Numbe	er -		<sup>2</sup> Pool (	Code			<sup>3</sup> Pool Name		
30	-039-200	006						CHACRA		
<sup>4</sup> Property	Code				<sup>5</sup> Prop	erty Nar	ne		6	Well Number
641	4				Jicari	lla Ar	oache			/3E
<sup>7</sup> OGRID	No.				<sup>8</sup> Ope	rator Nai	me			9 Elevation
1402	21				Marathon	Oil C	Company			(GL) 6598'
					10 Surface	Locat	ion			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from	the	North/South Line	Feet from the	East/West line	County
E	33	26N	5W		18	50	North	930	West	Rio Arriba
			" Bo	ttom Ho	le Location	If Diff	erent From Surf	ace		
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from	n the	North/South Line	Feet from the	East/West line	County
	<u> </u>	<u> </u>		<u> </u>			<u> </u>	<u> </u>		<u> </u>
<sup>12</sup> Dedicated Acre	s 13 Join	t or Infill	14 Consolidati	on Code	15 Order No.					
320				1						
NO ALLO	WABLE						INTIL ALL INTI APPROVED BY			SOLIDATED
ופבטי	1870							I hereby certify t	hat the information	IFICATION on contained herein is hnowledge and belief.

1850'		OPERATOR CERTIFICATION  I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
930' 13E	Dedicated 45 Acreage	Signature Tim L. Chase Printed Name Advanced Engineer Technician Title February 29, 2000 Date
	<b>33</b>	18 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 belief.  Date of Survey
		Signature and Seal of Professional Surveyer:

# OI CUNSERVATION DIVISION

# STATE OF NEW MEXICO ENERGY AND MINERALS UCFARTMENT

# P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-107 keyised 10-1-78

All distances must be from the cuter haundaries of the Section.

Operator		· · · · · · · · · · · · · · · · · · ·	Lease Well No.				
MARATHON O	IL COMPANY		JICA	RILLA APAC	HE	· •	13-E
Unit Letter	Section —	Township	Rong		County		
E	33	26N		5W	Rio	Arriba	
Actual Footage Loc	atton of Well:	-					
1850		North line on		) [ee	t from the	West	line
Ground Level Elev.	Producing Fo		Pool			Dedic	ated Acreage:
6598	<u>Dakota</u>	<u> </u>	Bas	in Dakota			320 Acres
1. Outline th	e acreage dedica	ated to the subject	well by co	lored pencil o	r hachure	marks on the pla	t below.
	nan one lease is nd royalty).	dedicated to the w	ell, outline	e each and ide	ntify the	ownership thereo	f (both as to working
		different ownership i unitization, force-po		d to the well,	have the	interests of all	owners been consoli-
Yes	☐ No If a	answer is "yes;" type	of consol	idation	N/A	<u> </u>	•
			*				•
		owners and tract de	scriptions	which have a	ctually be	en consolidated.	(Use reverse side of
	if necessary.)	1	** *			* *	<del></del>
No allowa	ble will be assign	ned to the well until	all interes	ts have been	consolidat	ted (by communi	tization, unitization,
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<b>.</b>	1	•		i	•	Date	•
		Sec.		i	•	April 15	, 1980
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} <b>}</b>				İ			
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1 1	<b>!</b> ! ·	1				under my supe	rvision, and that the same
1 1	l	1		i		is true and c	orrect to the best of my
1 1	1	•		i		knowledge and	belief.
				<b>†</b>			
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L						Fred B.	Karr Jr 8

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

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

State of New Mexico Energy, Minerals and Natural Resources Department FORM C-107-A

New 3-12-96

DISTRICT II

911 S. 1st, Artesia, NM 86210

**OIL CONSERVATION DIVISION** 

**APPROVAL PROCESS:** 

2040 S. Pacheco, Santa Fe, NM 87505-6429

\_\_Administrative \_\_\_\_Hearing

DISTRICT III

1000 Rio Brazos, Aztec, NM 87410

**APPLICATION FOR** DOWNHOLE COMMINGLING **EXISTING WELLBORE** 

990 Rio Brazos, Aztec, NM 87410	DOWNHOLE	COMMINGLING	X_YesNo
Marathon Oil Company OPERATOR	P.G. Box 552 ADDRESS	Midland, Tx 79702	
Jicarilla	13E	Sec 33, T-26N, R-5W, UL "M	
LEASE	WELL NO.		COUNTY PES: (CHECK 1 OR MORE)
OGRID NO. <u>014021</u> PROPERT	Y CODE <u>6414</u> API NO. <u>30</u>	<u>-039-22446</u> Federal X, Sta	ate, (and/or) Fee
he following facts are submitted in upport of downhole commingling:	Upper Zane	Intermediate Zones	Lover Zone
. Pool Name & Pool Code	Chacra	Blanco Mesa Verde	Basin Dakota
2. Top & Bottom of Pay Section Perforations)	3950-4750'	5126-5150'	7107-7295'
3. Type of production (Oil or Gas)	N/A	Gas	Gas
. Method of Production (Flowing of Artificial Lift)	N/A	Artificial Lift	Artificial Lift
i. Battomhole Pressure Dil Zones-Artificial Lift (Est Current)	a. (Current) 0	a. (Current) 325	a. (Current) 350
	b. (Original)	b. (Original)	b. (Original)
i. Oil Gravity (API) or Gas BTU Content	37 API	38 API	39 API
7. Producing or Shut-in?	Not Yet Perforated	Producing	Producing
Production Marginal? (yes or no)	Yes	Yes	Yes
If Shut-in, give date and o/g/w rates of		Date: N/A	Date: N/A
ast production  lote: For new zones with no production history, pplicant shall be required to attach production stimates and supporting data.	Rates: N/A	Rates: N/A	Rates: N/A
If producing, give date and o/g/w rates	Date: N/A	Date: 12/21/99	Date: 11/19/99
f recent test (within 60 days)	Rates: N/A	Rates: 3/181/2	Rates: 1/66/0
Fixed Percentage Allocation Formula for each zone	Oil: 0% Gas: 28.82%	Oil: 75.00% Gas: 52.16%	Oil: 25.00% Gas: 19.02%
	g method and providing rate projections		hod, submit attachments

9.	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? X Yes No
	If not, have all working, overriding, and royalty interersts been notified by certified mail?
	Have all offset operators been given written notice of the proposed downhole commingling?  Yes X No (no longer necessary)
11	. Will crossflow occur? X Yes 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? X Yes No (If No, attach explanation)
12	. Are all produced fluids from all commingled zones compatible with each other?X_ Yes No
13	. Wil the value of production be decreased by commingling?Yes_X_No (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. X Yes No
15	. NMOCD Reference Cases for Rule 303(C) Exceptions: ORDER NO(S).
	ATTACHMENTS:
	<ul> <li>C-102 for each zone to be commingled showing its spacing unit and acreage dedication.</li> </ul>
	* Production curve for each zone for at least one year. (If not available, attach explanation.)
	* 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. (no longer necessary)
	<ul> <li>Notification list of all working, overriding, and royalty interests for uncommon interest cases.</li> </ul>
	* Any additional statements, data, or documents required to support commingting

I hereby certify that the information above is true and complete to the best of my knowledge and belief. SIGNATURE TYPE OR PRINT NAME

TIM L. CHASE

TITLE <u>Advanced Engineer Technician</u> TELEPHONE NO. ( <u>915</u> ) <u>687-8268</u>

DATE 02/29/00