DHC 4/24/00

Mid-Continent Region Production United States



March 31, 2000

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

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

27/6



RE:

Request for Exception to Rule 303-A

Downhole Commingling Jicarilla Apache No. 10 1100' FNL & 1550' FEL

Unit Letter "B", Section 27, Township 26-N, Range 5-W

South Blanco Pictured Cliffs, Basin Dakota & Tapacito Gallup

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 South Blanco Pictured Cliffs, Basin Dakota & the Tapacito Gallup 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 South Blanco Pictured Cliffs and and Basin Dakota pools.

All three pools represent marginal production. The well was drilled and completed as a dual producer in the Basin Dakota and Cliffhouse (Mesa Verde) pools in late 1966. In early 1975, the Cliffhouse was re-perforated, stimulated and cement squeezed due to lack of productivity. One month later, the well was perforated in the South Blanco Pictured Cliffs and downhole commingled with the Basin Dakota. Plans are to perforate the Tapacito Gallup 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) 687-8255.

Sincerely,

Tim L. Chase

Advanced Engineer Technician

REQUEST FOR EXCEPTION TO RULE 303-A

Jicarilla Apache No. 10, Jicarilla Field

A: Operator

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

B: Lease Name and Well Number

Jicarilla Apache No. 10 1100' FNL & 1550' FEL, Unit Letter "B", Section 27, Township 26-N, Range 5-W Jicarilla Field, Rio Arriba County, New Mexico South Blanco Pictured Cliffs, Basin Dakota & Tapacito Gallup

C: Plats and Offset Operators

Plat attached.

D: C-116's

Attached.

E: Production Decline Curves

Attached

F: Estimated Current Bottomhole Pressures (PSI)

South Blanco Pictured Cliffs = 300, Tapacito Gallup = 325, Basin Dakota = 350

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

I: Production Allocation

<u>POOL</u>	<u>BOPD</u>	<u>MCFPD</u>	<u>BWPD</u>	Estimation Methods
South Blanco PC	0	44	0	Current Production
Tapacito Gallup	0	100	9	Estimated Production
Basin Dakota	0	75	0	Current Production
Total	0	219	9	

Allocated %		<u>Oil %</u>	Gas %	Water %
South Blanco PC		0.00	20.09	0.00
Tapacito Gallup		0.00	45.66	100.00
Basin Dakota		0.00	34.25	0.00
	Total	0.00	100.00	100.00

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

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSEVATION DIVISION

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

Submit 2 copies to Appropriate

District Office.

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

1000 Rio Brazos Rd., Aztec, NM 87410

2040 Pacheco St. Santa Fe, NM 87505

GAS - OIL RATIO TEST

Operator					_	Pool						<u> </u>	County	į		
Marathon Oil Company							outh 1	Blanco 1	South Blanco Pictured Cliffs	Cliffs			,	Rio	Rio Arriva	
Address							TYPE	ا ا							L	ſ
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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

Tim L. Chase Advanced Engineer Technician

Printed name and title

3/31/00 Date

(915) 687-8268

Telephone 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 II

Submit 2 copies to Appropriate

District Office.

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICTIII

GAS - OIL RATIO TEST

Operator						Pool						<u> ဒ</u>	County			
Marathon Oil Company								Basin	Basin Dakota			3		Rio	Rio Arriva	
Address							TYPE OF	<u>ا</u> ال			(:		Ċ	ᆫ	Γ.
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Jicarilla Apache	10	g	27	26N	MS	2/4/00	Ŀ		99		24	0	N/A	0	75	N/A
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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.

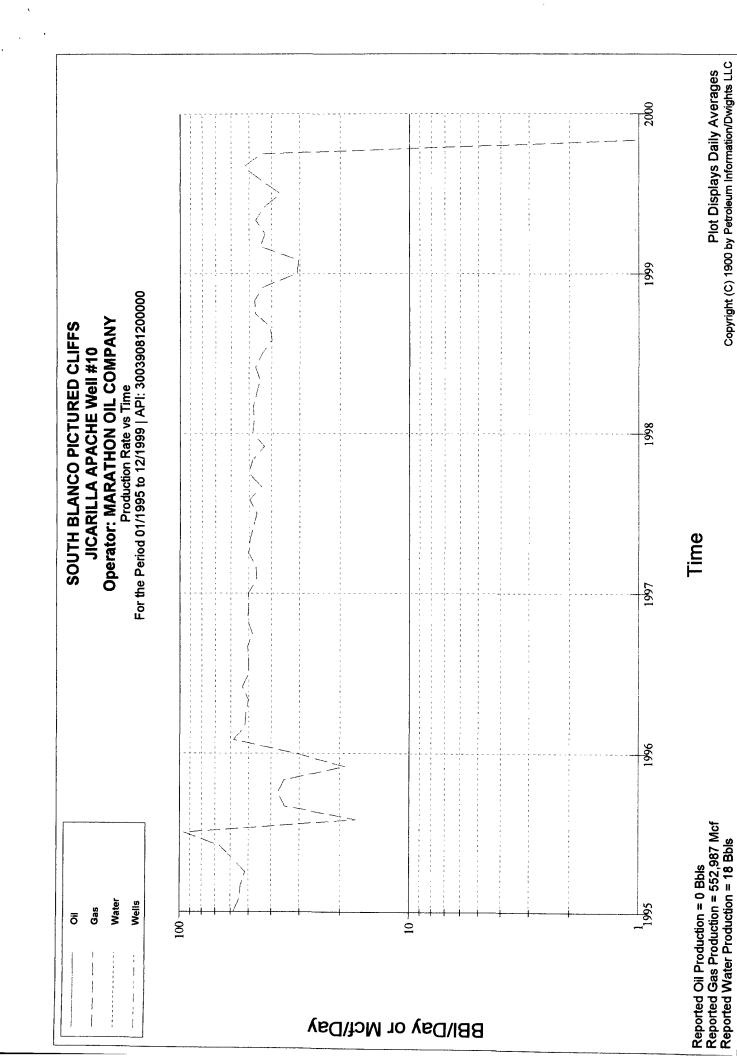
Report casing pressure in lieu of tubing pressure for any well producing through casing.

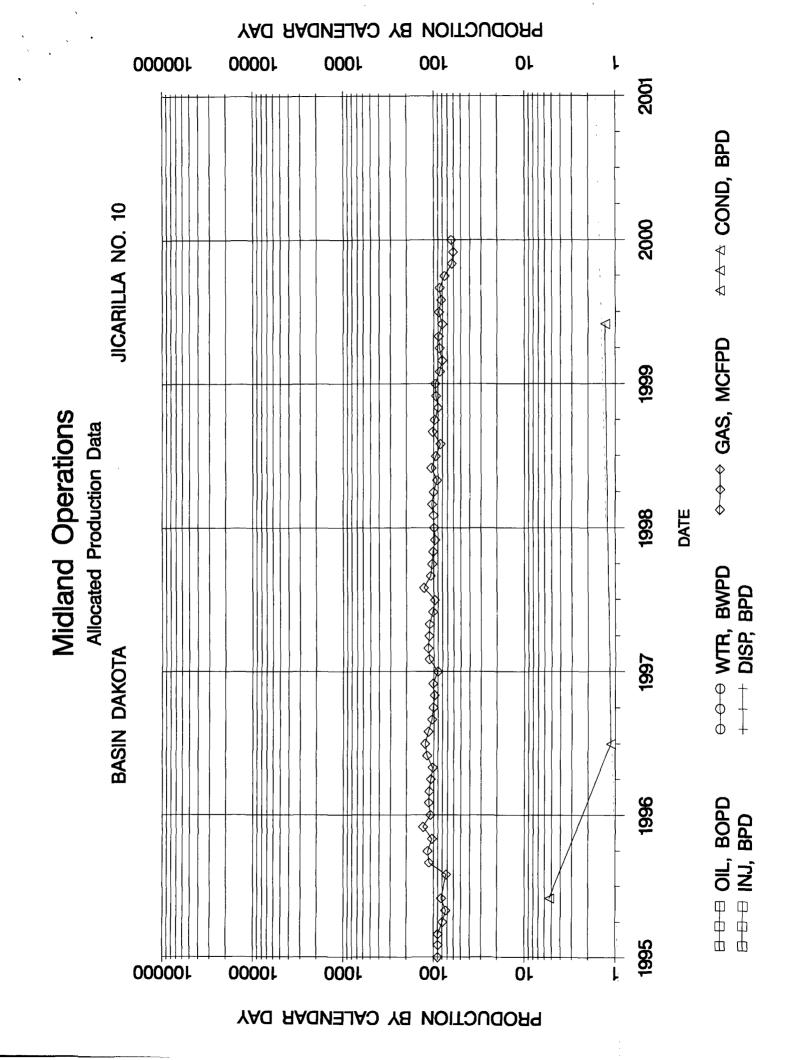
(See Rule 301, Rule 1116 & appropriate pool rules.)

Advanced Engineer Technician I nereby certify that the above information is true and (915) 687-8268 complete to the best of my knowledge and belief. Printed name and title Tim L. Chase Signature 3/31/00

Telephone No.

Date





NF MEXICO OIL CONSERVATION COMMISSI? WELL .OCATION AND ACREAGE DEDICATION ...AT

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

All distances must be from the outer boundaries of the Section erator Well No. Jicarilla Apache Marathon Oil Company 10 Unit Letter Section Township 26N 5W Rio Arriba В 27 Actual Footage Location of Well: 1550' feet from the SE/4 NW/4 NE/4 line 1100' North feet from the line and Producing Formation Ground Level Elev. South Blanco Pictured Cliffs 6525 Pictured Cliffs 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 the transfer and the been consolidated by communitization, unitization, force-pooling. etc? MAY 20 1975 If answer is "yes," type of consolidation X No Yes CASPER DISTRICE If answer is "no," list the owners and tract descriptions which have actually been coperations everse side of this form if necessary.) Marathon Oil Company - Tract 251 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-CERTIFICATION Dedicated. Acres of I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. District Oberations Manager Marathon Oil Company 5-12-75 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 Registered Professional Engineer and/or Land Surveyor Certificate No. 1320 1650 1980 2310 2640

Copies to: Was-Dir-, REW-matodon

MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACERAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

Operator	Lease		Well No.
MARATHON OIL COMPANY	Jicarilla Apad	che	10
Unit Letter Section Township	Range	County	
B 27 26 North	5 West	Rio Arriba	
Actual Footage Location of Well:			
1100 feet from the North line and	1550 f≪	et from the East	line
Ground Level Elev. Producing Formation	Pool	Dedi	icated Avereage:
G525 Dakota	Basin-Dak	ota	320 Acres
 Outline the acerage dedicated to the subject well by c If more than one lease is dedicated to the well, out interest and royalty), If more than one lease of different ownership is ded by communitization, unitization, force-pooling. etc? Yes (X) No If answer is "yes," type of If answer is "no," list the owners and tract descriptions necessary.)	tline each and identicated to the well, ho consolidationwhich have actually	fy the ownership thereof ove the interests of all own	(both as to working ers been consolidated
No allowable will be assigned to the well until all interest pooling, or otherwise) or until a non standard unit, elimin			

CERTIFICATION

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

1100 Name <u>15</u>50 District Operations Manager Position Marathon Oil Company Company October 24, 1966 Date Sec N knowledge and belief.

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

Date Surveyed 1 2000 August 25, 1966 Registered Profession Registered Professional Engineer and/or Land Surveyor

Certificate No. 3602

District I

State of New Mexico

Energy, Minerals & Natural Resources Department

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

Revised October 18, 1994 Instructions on back

Form C-102

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

AMENDED REPORT

		WEL	L LUCA	IION A	ID ACK	ŒA	GE DEDICA	IION PLA		
1	API Numbe	r		² Pool Code				³ Pool Name	:	
30	-039-081	L20				_		Tapacito Ga	llup	
⁴ Property	Code				⁵ Proper	rty Nar	ne		6	Well Number
6414	1				Jicaril	la Ar	ache			10
⁷ OGRID	No.				8 Operat	tor Nar	ne			⁹ Elevation
1402	21			M	arathon (oil (Company			6538' (KB)
				10	Surface I	ocat	ion			
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	he	North/South Line	Feet from the	East/West line	County
В	27	26N	5W		1100)	North	1550	East	Rio Arriba
			11 Bott	om Hole Lo	ocation If	Diffe	erent From Surf	ace	•	
UL or lot no.	Section	Township	Range	Lot. Idn	Feet from t	he	North/South Line	Feet from the	East/West line	County
	i									
12 Dedicated Acres	¹³ Join	t or Infill	⁴ Consolidation	Code 15 Ord	ler No.					
160										
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							1550'			
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Dedicated Acreage Signature Tim L. Chase Printed Name Advanced Engineer Technician Title March 31, 2000 Date 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: Certificate Number

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

DISTRICT I

State of New Mexico

FORM C-107-A

P.O. Box 1980, Hobbs, NM 88240

Energy, Minerals and Natural Resources Department

New 3-12-96

DISTRICT II

OIL CONSERVATION DIVISION APPROVAL PROCESS: 911 S. 1st, Artesia, NM 86210 2040 S. Pacheco, Santa Fe, NM 87505-6429

___Administrative ____Hearing

DISTRICT III

1000 Rio Brazos, Aztec, NM 87410

APPLICATION FOR

EXISTING WELLBORE

DOWNHOLE COMMINGLING

X_Yes ___No

Marathon Oil Co	ompany P.O. Box 552	Midland, Tx. 79702
OPERATOR	ADDRESS	
Jicarilla	10	Sec 34, T-26N, R-5W, Rio Arriba
LEASE	WELL NO.	SECTION, TOWNSHIP, RANGE, UNIT COUNTY SPACING UNIT LEASE TYPES: (CHECK 1 OR MORE)
OGRID NO. <u>014021</u>	PROPERTY CODE 6414 AP	NO. <u>30-039-08120</u> Federal <u>X</u> , State <u>(and/or) Fee</u>

The following facts are submitted in Upper Zone Intermediate Zones Lower Zone support of downhole commingling: 1. Pool Name & Pool Code South Blanco Pictured Cliffs Tapacito Gallup Basin Dakota 2. Top & Bottom of Pay Section 2968-2990 6508-6760 7154-7382' (Perforations) 3. Type of production (Oil or Gas) Gas Gas (Expected) Gas 4. Method of Production (Flowing or Artificial Lift Artificial Lift (Proposed) Artificial Lift Artificial Lift) 5. Bottomhole Pressure a. (Current) 300 a. (Current) 325 a. (Current) 350 Oil Zones-Artificial Lift (Est Current) b. (Original) b. (Original) b. (Original) 6. Oil Gravity (API) or Gas BTU Conten 37 API 38 API 39 API 7. Producing or Shut-in? Not Yet Perforated Producing Producing Production Marginal? (yes or no) Yes Yes (Expected) Yes If Shut-in, give date and o/g/w rates of Date: N/A Date: N/A Date: N/A ast production Rates: N/A Rates: N/A Rates: N/A lote: For new zones with no production history, pplicant shall be required to attach production estimates and supporting data. If producing, give date and o/g/w rates Date: 02/04/00 Date: 02/04/00 Date: N/A of recent test (within 60 days) Rates: 0/75/0 Rates: N/A

Fixed Percentage Allocation Formula - Oil: 0.0	0% Oil:	0.00%	Oil: 0.00%	
% for each zone Gas: 20.0	9% Gas:	45.66%	Gas: 34.25%	
9. If allocation formula is based upon something oth	er than current or past pro	duction, or is based upo	n some other method, submit	attachments
with supporting data and/or explaining method an	d providing rate projection	s or other required data.	•	
10. Are all working, overriding, and royalty interests i	dentical in all commingled	zones?	X_ Yes No	
If not, have all working, overriding, and royalty int	erersts been notified by co	ertified mail?	Yes No	
Have all offset operators been given written notice	e of the proposed downho	le commingling?	Yes X No (no longer ne	cessary)
11. Will crossflow occur? <u>X</u> Yes No	s, are fluids compatible, w	ill the formations not be o	lamaged, will any cross-flowe	d production
be recovered, and will the allocation formula be r	eliable? <u>X</u> Yes <u> </u>	(If No, attach explana	ation)	
12. Are all produced fluids from all commingled zone	s compatible with each ot	her?	_X_ Yes No	
Wil the value of production be decreased by corr	nmingling? Y	es X_No (If Yes, atta	sch explanation)	
14. If this well is on, or communitized with, state or fo	ederal lands, either the Co	mmissioner of Public La	nds or the United States Bure	au of Land
Management has been notified in writing of this a	application. X Yes	No		
15. NMOCD Reference Cases for Rule 303(C) Exce	eptions: ORDER NO(S)		
16. ATTACHMENTS:				
 C-102 for each zone to be commingle 	d showing its spacing unit	and acreage dedication.		
* Production curve for each zone for at	eastone year. (If not avai	lable, attach explanation.)	
* For zones with no production history,	estimated production rates	and supporting data.		
* Data to support allocation method or fe	ormula.			
 Notification list of all offset operators. 	(no longer necessary)			
 Notification list of all working, overriding 	g, and royalty interests for	uncommon interest case	es.	
* Any additional statements, data, or do	cuments required to support	ort commingling.		
hereby certify that the information above is true and	complete to the best of m	v knowledge and helief		

SIGNATURE

TITLE Advanced Engineer Technician

DATE 03/31/00

TYPE OR PRINT NAME

TIM L. CHASE

TELEPHONE NO. (915) 687-8255