DHC 11/18/98

Houston Division
Production Operations, United States

P.O. Box 2490

Hobbs, New Mexico 88240

Telephone 505/393-7106



October 23, 1998

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

RE: Request for Exception to Rule 303-A

Downhole Commingling Edith Butler "B" Well No. 1

Unit Letter I, 1980' FSL & 660' FEL

Section 13, T-22-S, R-37-E

Blinebry Oil & Gas, Tubb Oil & Gas and South Brunson Drinkard-Abo

Drinkard 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 Blinebry Oil & Gas, Tubb Oil & Gas and South Brunson Drinkard-Abo pools in Lea County, New Mexico. Marathon also request a 30 day exception to Rule 303-A to permit the downhole commingling of production while awaiting for approval of application. If application is not approved, then the well will be worked over to produce only the Blinebry Oil & Gas pool.

All three pools have marginal production. The Tubb and Drinkard-Abo were downhole commingled in 1994 (order DHC-1048). In 1996, a workover isolated the Tubb and Drinkard-Abo below a bridge plug. Pay was then added in the Blinebry Oil & Gas zones. Current production is from the Blinebry Oil & Gas pool. The RBP will be removed and the three pools will be downhole commingled. By downhole commingling the production from the 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, preventing crossflow.

Enclosed is pertinent data supporting this application as outlined in Rule 303-A. If additional information is necessary, please contact me at (505) 393-7106, ext 201.

Sincerely,

Thomas P. Kacir

Production Engineer

Thomas Kaus

TPK/dbc Enclosure

A subsidiary of USX Corporation

REQUEST FOR EXCEPTION TO RULE 303-A

Edith Butler "B" Well No. 1 Drinkard Field

A: Operator

Marathon Oil Company P.O. Box 2409 Hobbs, New Mexico 88240-2409

B: Lease Name and Well Number

Edith Butler "B" Well No. 1 Unit Letter I, 1980' FSL & 660' FEL Section 13, T-22-S, R-37-E Lea County, New Mexico

Drinkard: Blinebry Oil & Gas, Tubb Oil & Gas, South Brunson Drinkard-Abo Pools

C: Plats and Offset Operators

Attached

D: C-116's

Attached

E: Production Decline Curves

Attached

F: Estimated Bottomhole Pressures

Current
Blinebry Oil & Gas 300 psi
Tubb Oil & Gas 350 psi
South Brunson Drinkard-Abo 500 psi

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 and value will not be adversely affected.

I: Production Allocation

POOL	BOPD	MCFD	BWPD	Estimated Methods
Blinebry Oil & Gas Tubb Oil & Gas S. Brunson Drinkard-Abo	20 1.2 <u>5.8</u>	145 48 <u>117</u>	10 0.5 <u>0.5</u>	Current Production Pre-1996 Workover Production Pre-1996 Workover Production
Total	27	310	11	
Allocated Percentag	<u>es</u>	Oil %	Gas %	Water %
Post-workover utilizing	ng above produ	ection		
Blinebry Oil & Gas Tubb Oil & Gas S. Brunson Drinkard-	-Abo	74.1 4.4 21.5	46.8 15.5 <u>37.7</u>	91.0 4.5 <u>4.5</u>
Total		100	100	100

J: Ownership

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

K: Offset Operator Notification

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

OFFSETTING OPERATORS
Edith Butler "B" Well No. 1
UL "I", 1980' FSL, 660' FEL
Section 13, T-22-S, R-37-E
Lea County, New Mexico
Drinkard Field

Exxon Corporation P.O. Box 4697 Houston, Texas 77210-4697

John H. Hendrix Corp. P.O. Box 3040 Midland, Texas 79702-3040

Ernie L. Hegwer 513 E. Zia Drive Hobbs, NM 88240



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

October 23, 1998

Exxon Corporation P.O. Box 4697 Houston, Texas 77210

RE:

Request for Exception to Rule 303-A

Downhole Commingling Edith Butler "B" Well No. 1

Unit Letter I, 1980' FSL & 660' FEL

Section 13, T-22-S, R-37-E

Blinebry Oil & Gas, Tubb Oil & Gas, South Brunson Drinkard-Abo Pools

Drinkard Field

Lea County, New Mexico

Ladies and/or Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation division for a downhole commingling production permit in 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,		
Thomas Kacar		
Thomas P. Kacir Production Engineer		
TPK/ Enclosure		
Agreed and accepted this	day of	1998
by		as representative of



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

October 23, 1998

John H. Hendrix Corporation P.O. Box 3040 Midland, Texas 79702

RE:

Request for Exception to Rule 303-A

Downhole Commingling Edith Butler "B" Well No. 1

Unit Letter I, 1980' FSL & 660' FEL

Section 13, T-22-S, R-37-E

Blinebry Oil & Gas, Tubb Oil & Gas, South Brunson Drinkard-Abo Pools

Drinkard Field

Lea County, New Mexico

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g: •		
Sincerely,	•	
Thomas P Kain		
Thomas P. Kacir		
Production Engineer		
ТРК/		
Enclosure		
Agreed and accepted this	day of	1998
by	·	, as representative of



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

October 23, 1998

Ernie L. Hegwer 513 Zia Drive Hobbs, NM 88240

RE:

Request for Exception to Rule 303-A

Downhole Commingling Edith Butler "B" Well No. 1 Unit Letter I, 1980' FSL & 660' FEL Section 13, T-22-S, R-37-E

Blinebry Oil & Gas, Tubb Oil & Gas, South Brunson Drinkard-Abo Pools

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Lea County, New Mexico

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Revised 1/1/89 Form C-116

State of New Mexico Energy, Minerals and Natural Resources Department

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

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

P.O. Box 1980, Hobbs, NM 88240

Submit 2 copies to Appropriate

District Office.

DISTRICT

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT III **DISTRICT II**

GAS - OIL RATIO TEST

Operator Manathon 041 Company						Pool	Rline	bry 04	Blinebry Oil & Gas			<u>්</u> වී	County		Lea	
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which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 °F. order that well can be assigned increased allowables when authorized by the Division.

During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in

Instructions:

Report casing pressure in lieu of tubing pressure for any well producing through casing. Specific gravity base will be 0.60.

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

(505) 393-7106 Production Engineer Thomas P. Kain Printed name and title October 23, 1998 Thomas P. Kacir Signature

complete to the best of my knowledge and belief.

Telephone No.

Revised 1/1/89 Form C-116

State of New Mexico Energy, Minerals and Natural Resources Department

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

811 S. 1st Street, Artesia, NM 88210-2834 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT II

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

Submit 2 copies to Appropriate

District Office.

GAS - OIL RATIO TEST

Operator					L	Pool					ا ا	County			
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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.

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complete to the best of my knowledge and belief.

Signature

Thomas P. Kacir

Printed name and title

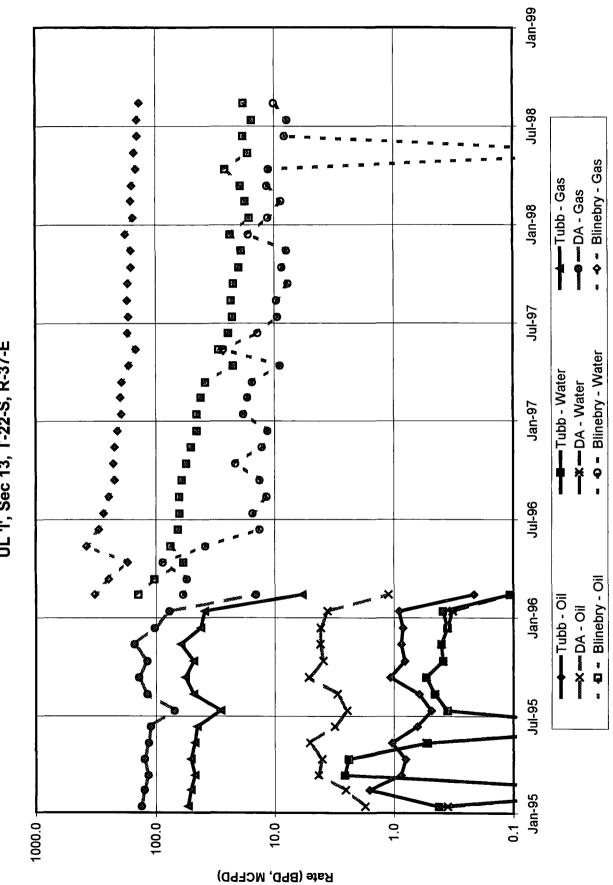
October 23, 1998

Production Engineer

(505) 393-7106

Telephone No.

Edith Butler 'B' Well No. 1 UL 'I', Sec 13, T-22-S, R-37-E



Blinebry / Tubb / Drinkard-Abo DHC Application

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

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

District I

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

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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

PO Box 1980, Hobbs, NM 88241-1980

Instructions on back

District II

District I

Submit to Appropriate District Office

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

District III

State Lease - 4 Copies Fee Lease - 3 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 District IV 2040 South Pacheco, Santa Fe, NM 87505

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	<u> </u>		² Pool	Code	T			³ Pool Name	;			
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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

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

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

AMENDED REPORT	

WELL LOCATION AND ACREAGE DEDICATION PLAT

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1	API Numbe	r		² Pool	Code					³ Pool Nam	e		
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⁴ Property	Code					⁵ Prope	rty Nar	ne				6 V	Vell Number
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DISTRICT 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

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:

APPLICATION FOR DOWNHOLE COMMINGLING

__ Administrative __Hearing EXISTING WELLBORE <u>X</u> YES __ NO

Marathon Oil Company	PO Box		IM 88240
Edith Butler B	******	ec.13, T-22-S, R-37-E	Lea
RID NO. 014021 Property Code	6377 API NO3	0-025-10252 Federal	pacing Unit Lease Types: (check 1 or more)
ne following facts are submitted in pport of downhole commingling:	Upper Zond	Intermediate Zones	Lower Zone
Pool Name and Pool Code	Blinebry Oil & Gas 6660	Tubb Oil & Gas 60240	Brunson;Drinkard-Abo South 9700
Top and Bottom of Pay Section (Perforations)	5482 - 5840 '	6040 - 6202 '	6306 - 6548'
Type of production (Oil or Gas)	0i1	Oil	0i1
. Method of Production (Flowing or Artificial Lift)	Artificial Lift	Artificial Lift	Artificial Lift
Bottomhole Pressure Ni Zones - Artificial Lift: Estimated Current	a. (Current) 300	a. 350	a. 500
Estimated Current ias & Oil - Flowing: Measured Current ill Gas Zones: Estimated Or Measured Original	b. (Original) ——	b	b
6. Oil Gravity (° API) or Gas BTU Content	37 API	37 API	41 API
7. Producing or Shut-In?	Producing	Shut-In	Shut-In
Production Marginal? (yes or no)	Yes	Yes	Yes
If Shut-In, give date and oil/ges/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach	Date: Rates: N/A	Date: 12/18/95 Rates: 1.2/48/0.5	Date: 12/18/95 Rates: 5.8/117/0.5
* If Producing, give date andoil/gas/ water rates or recent test (within 60 days)	Deta: 9/4/98 Retes: 10/145/10	Date: Rates: N/A	Date: Rates: N/A
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: 46.8%	Oil: 4.4 % Ges: 15.5 %	Oii: 21.5 % Ges: 37.7%
3. If allocation formula is based submit attachments with su 4. O. Are all working, overriding, a lif not, have all working, over Have all offset operators been 4. Will cross-flow occur? 4. Will cross-flow occur?	and royalty interests identical i rriding, and royalty interests b n given written notice of the p	in all commingled zones? seen notified by certified mail? roposed downhole commingling	X Yes No No Yes No No Yes No No
 Will cross-flow occur? X flowed production be recove 			
2. Are all produced fluids from		-	
 Will the value of production If this well is on, or communumental thickers United States Bureau of Lan 			
5. NMOCD Reference Cases fo	r Rule 303(C) Exceptions:	ORDER NO(S).	
6. ATTACHMENTS: * C-102 for each zo * Production curve * For zones with no * Data to support a * Notification list of * Notification list of	one to be commingled showing for each zone for at least one opposition history, estimated llocation method or formula. I all offset operators.	g its spacing unit and acreage year. (If not available, attach production rates and support alty interests for uncommon in required to support commingly	dedication. explaination.) ting data.
hereby certify that the information	tion above is true and comple	te to the best of my knowledge	e and belief.
SIGNATURE TROMA P. K.	Thomas P. Kacir	TITLE Production En	gineerDATE 10/23/98
YPE OR PRINT NAME		TELEPHONE NO	1 505 1 392 71N1



STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

GOVERNOR

/ed

11/2/98

POST OFFICE BOX 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501
RE: Proposed: MC DHC NSL NSP SWD WFX PMX
Gentlemen:
I have examined the application for the: Marathan Dil Co Edith Butler B 1-1-13-225-37e Operator Lease & Well No. Unit S-T-R and my recommendations are as follows: Recommend approved:
Living approved
Yours very truly,
Chris Williams Supervisor, District l