Mid-Continent Region Production United States

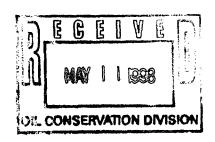


P.O. Box 2409 Hobbs, NM 88241-2409 Telephone 505/393-7106 1961

May 8, 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
William Turner Well No. 4
Unit Letter J, 1980' FSL & 1980' FEL
Section 29, T-21-S, R-37-E
Blinebry Oil & Gas and Wantz 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 and Wantz 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.

The Wantz Abo has marginal production. A recent workover isolated the Wantz Abo below a bridge plug. Next pay was added in the Blinebry Oil & Gas zones. Currently production is from the Blinebry Oil & Gas pool only. The RBP will be removed and the two pools will be downhole commingled. By downhole commingling the production from the two 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** 

Thomal Kaw

TPK/dbc Enclosure

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

### William Turner Well No. 4 Drinkard Field

### A: Operator

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

### B: Lease Name and Well Number

William Turner Well No. 4 Unit Letter J, 1980' FSL & 1980' FEL Section 29, T-21-S, R-37-E Lea County, New Mexico Drinkard: Blinebry Oil & Gas, Wantz 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

750 psi

Wantz 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

<b>POOL</b>	<b>BOPD</b>	<b>MCFD</b>	<b>BWPD</b>	Estimated Methods
Blinebry Oil & Gas Wantz Abo	34 <u>13</u>	218 <u>37</u>	19 <u>0</u>	Post Workover Production Pre-Workover Production
Total	47	255	19	

Allocated Percentages	<u>Oil %</u>	Gas %	Water %
Post-workover utilizing ab	ove production		
Blinebry Oil & Gas Wantz Abo	72.3 27.7	85.5 14.5	100.0 
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.

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Marathon 0:1 William Turner UL"3", Sec. 2 T-21-5, R-37-	The state of the s	Constitution of the consti	The state of the s	The state of the s
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OFFSETTING OPERATORS
William Turner Well No. 4
UL "J", 1980' FSL, 1980' FEL
Section 29, T-21-S, R-37-E
Lea County, New Mexico
Drinkard Field

American Exploration Company 1331 Lamar St., Ste. 900 Houston, Texas 77010

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

Altura Energy Ltd. P.O. Box 4294 Houston, Texas 77210-4294

Zia Energy Inc. P.O. Box 2219 Hobbs, New Mexico 88241

Chevron USA Inc. P.O. Box 1150 Midland, Texas 79702

Titan Resources L.P. 400 W. Texas Ave., Ste. 500 Midland, Texas 79701

Hawkins Oil and Gas Inc. 400 S. Boston Ave., Ste. 800 Tulsa, Oklahoma 74103-5052



May 8, 1998

Altura Energy Ltd. P.O. Box 4294 Houston, Texas 77210-4294

RE:

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Blinebry Oil & Gas, Wantz Abo

**Drinkard 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 commingling production permit in the above referenced well. Please find enclosed a copy of the application as outlined in Rule 303-A.

by		, as representative of
Agreed and accepted this	day of	1998
TPK/ Enclosure		
Thomas P. Kacir Production Engineer		
Sincerely, Thomas & Kaci		e.



May 8, 1998

Chevron USA Inc. P.O. Box 1150 Midland, Texas 79702

RE:

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Downhole Commingling
William Turner Well No. 4
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TPK/ Enclosure		
Thomas P. Kacir Production Engineer		
Thomas P. Kaco		
Sincerely,		



May 8, 1998

Hawkins Oil and Gas Inc. 400 S. Boston Ave., Ste. 800 Tulsa, Oklahoma 74103-5052

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Thomas P. Kacir Production Engineer		
Sincerely,		



May 8, 1998

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

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Sincerely,		
Thomas Krew		
Thomas P. Kacir		
Production Engineer		
TPK/		
Enclosure		
Agreed and accepted this	day of	1998
by		, as representative of



May 8, 1998

Titan Resources Incorporated 400 W. Texas Ste. 500 Midland, Texas 79701

RE: Request for Exception to Rule 303-A
Downhole Commingling

William Turner Well No. 4 Unit Letter J, 1980' FSL & 1980' FEL

Section 29, T-21-S, R-37-E Blinebry Oil & Gas, Wantz Abo

**Drinkard Field** 

Lea County, New Mexico

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Thomas Kaw		
Thomas P. Kacir		•
Production Engineer		
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Enclosure		
Agreed and accepted this	day of	1998
оу		, as representative of



May 8, 1998

American Exploration Company 1331 Lamar St., Ste. 900 Houston, Texas 77010

RE: Request for Exception to Rule 303-A
Downhole Commingling

William Turner Well No. 4 Unit Letter J, 1980' FSL & 1980' FEL Section 29, T-21-S, R-37-E

Blinebry Oil & Gas, Wantz Abo Drinkard Field

Lea County, New Mexico

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Thoma & Kaust Thomas P. Kacir Production Engineer		
Sincerely,		



May 8, 1998

Zia Energy Inc. P.O. Box 2219 Hobbs, New Mexico 88241

RE:

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Unit Letter J, 1980' FSL & 1980' FEL
Section 29, T-21-S, R-37-E
Blinebry Oil & Gas, Wantz Abo
Drinkard 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 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,

by		_, as representative of
Agreed and accepted this	day of	1998
TPK/ Enclosure		
Thomal Kaw		
Thomas P. Kacir Production Engineer		

Submit 2 copies to Appropriate District Office.

811 S. 1st Street, Artesia, NM 88210-2834 DISTRICT I P.O. Box 1980, Hobbs, NM 88240 **DISTRICT II** 

DISTRICT III 1000 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

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For Information Only								CP- 30							

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.

505-393-7106 **Production Engineer** Printed name and title Thomas P. Kacir Signature 5-08-98

I hereby certify that the above information is true and

complete to the best of my knowledge and belief.

Telephone No.

Date

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

Submit 2 copies to Appropriate District Office.

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

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

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

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# State of New Mexico Energy, Minerals and Natural Resources Department

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

## GAS - OIL RATIO TEST

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Operator						Pool					<u>3</u> _	County		_	
Marathon Oil Company	i						Ma	Wantz Abo						Lea	
Address P.O. Box 2409 Hobbs. NM 88240	0						TYPE OF TEST - (X)	Scheduled		ŏ	Completion		ૹ	Special X	
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### Instructions:

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Printed name and title 5-08-98 Date

Thomas P. Kacir

Signature

Telephone No.

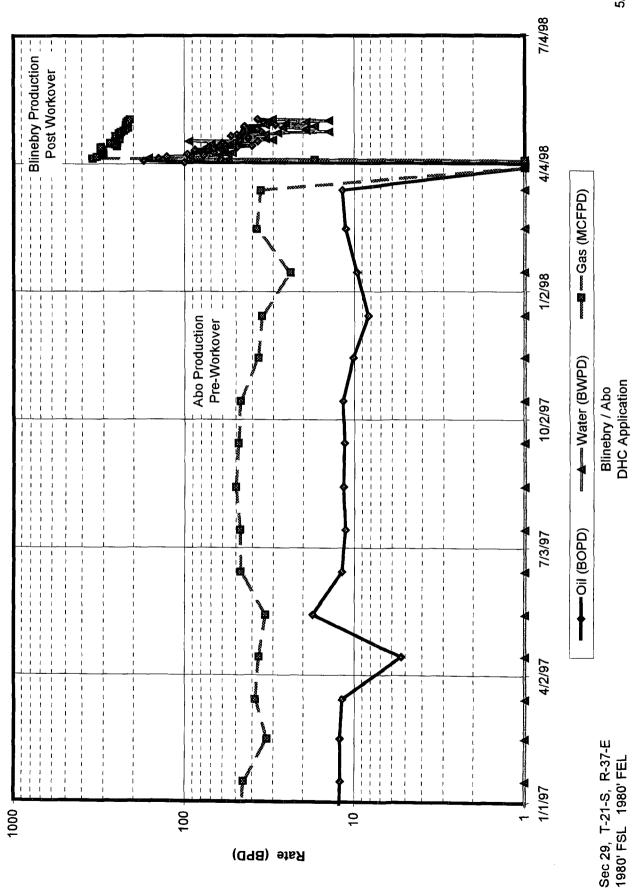
505-393-7106

**Production Engineer** 

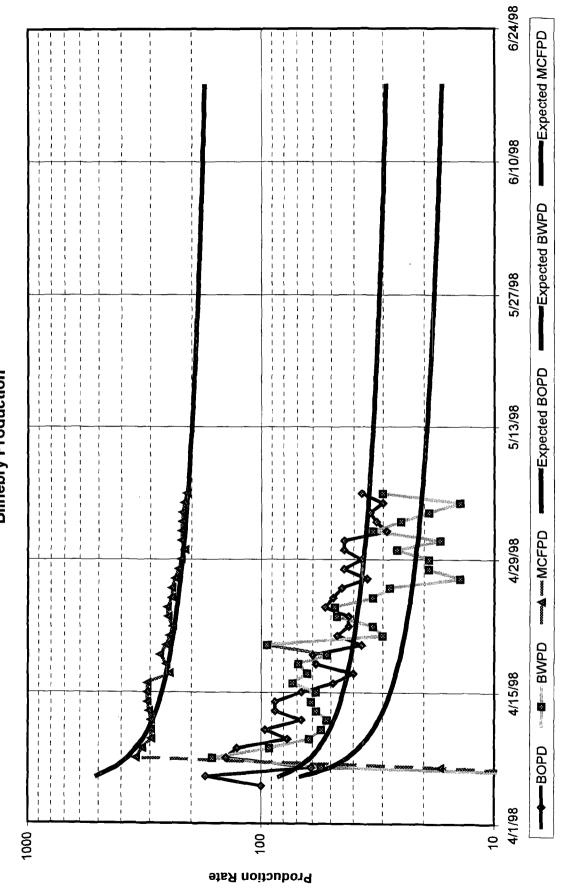
complete to the best of my knowledge and belief.

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

William Turner Well No. 4



William Turner Well No. 4 Blinebry Production



Sec. 29, T-21-S, R-37-E 1980' FSL, 1980' FEL

Blinebry / Abo DHC Application

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

1 API Number

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 37505

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

<sup>3</sup> Pool Name

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>2</sup> Pool Code

30-0	<u> 25-272</u>	61		6660				neory ull &	Sas (UTI)			
<sup>4</sup> Property Co	do	T	5 Property Name						<sup>6</sup> Well Number			
6478		}			William	Tur	ner	4				
<sup>7</sup> OGRID No	<u>, y </u>								9 Elevation			
014021 Manathon Oil Company							2407	VB 2474 C				
014021 Marathon 011 Company 3487 KB, 3474 GL												
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Bottom Hole Location If Different From Surface												
UL or lot no. Se	ection	Township	Range	Lot. Idn	Feet from th	16	North/South Line	Feet from the	East/West line	County		
12 Dedicated Acres	13 Joint	or Infill 14C	  consolidation	Code 15 Ord	ler No.		; 	<del></del>	L	L		
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### STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

### P. O. BOX 2088

Form C-102 Revised 10-1-78

SANTA FE, NEW MEXICO 87501

		All distanc	es must be l	rom the ov	iter bounderles el	the Section	ı		
Operator						Well No.			
Marathon Oil Company			1	William Tur	<u>_4</u>				
Unit Letter	Section	Township	•	Ron	g•	County	•		
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interest an	d royalty).						" " YIH	ercol (both as to	
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DISTRICT P.O. Box 1980, Hobbs, NM 88240 DISTRICT II 811 South First St., Artesis, NM 88210 State of New Mexico Energy, Minerals and Natural Resources Department

### OIL CONSERVATION DIVISION

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

APPROVAL PROCESS: \_\_Administrative \_\_\_Hearing EXISTING WELLBORE

DISTRICT III

A PRI ICATION FOR DOWNHOLF COMMINGLING

THE COLOR OF THE PARTY OF THE P	PO_Box_	2409 Hobbs NM 882	240
William Turner			
		Spi	scing Unit Lease Types: (check 1 or more)
GRID NO. 014021 Property Code	. 6478 API NO. 30	)-025-27261 Federal	, State, (and/or) Fee X
The following facts are submitted in support of downhole commingling:	Upper Zons	intermediate Zones	Lower Zone
1. Pool Name and Pool Code	Blinebry Oil & Gas 6660	N/A	Wantz Abo 62700
Top and Bottom of Pay Section (Perforations)	5726-5762'	N/A	6797-7165 <b>'</b>
3. Type of production (Oil or Gas)	Oil	N/A	Oil
4. Method of Production (Flowing or Artificial Lift)	Artificial Lift	N/A	Artificial Lift
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	8. (Current) 750	a. N/A	a. 500
Gas & Oil - Flowing: Measured Current Measured Current All Gas Zones: Estimated Or Measured Original	b. <sup>(Original)</sup> N/A	b. N/A	b. N/A
6. Oil Gravity (*API) or Gas BTU Content	37 <b>°</b>	N/A	39 <b>°</b>
7. Producing or Shut-In?	Producing	N/A	Shut-In
Production Marginal? (yes or no)	Yes	N/A	Yes
If Shut-in, give date and oil/gas/ water rates of last production	Date: N/A	Date: N/A	Date: 3/4/98 Rates: 12/27/0
Note: For new zones with no production history, applicant shall be required to attach			Mates: 13/37/0
If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Data: 5/4/98 Rates: 34/218/19	Date: Rates: N/A	Date: Rates: N/A
,			<del>1</del>
8. Fixed Percentage Allocation Formula -% for each zone	OH: Gas: 72.3 % 85.5 %	OH: Gas: %	Oil: 27.7 % Gas: 14.5 %
Fixed Percentage Allocation     Formula -% for each zone  9. If allocation formula is based	72.3 % 85.5 %	% %	27.7% 14.5 %
8. Fixed Percentage Allocation Formula -% for each zone  9. If allocation formula is based submit attachments with su	72.3 % 85.5 % upon something other than cupporting data and/or explaining	surrent or past production, or is method and providing rate production.	27.7% 14.5 % based upon some other met ojections or other required d
8. Fixed Percentage Allocation Formula -% for each zone  9. If allocation formula is based submit attachments with su  10. Are all working, overriding, a lf not, have all working, ove Have all offset operators bee	72.3 % 85.5 %  upon something other than comporting data and/or explaining and royalty interests identical irriding, and royalty interests being given written notice of the p	current or past production, or is no method and providing rate print all commingled zones? Deen notified by certified mail? Troposed downhole commingling	based upon some other met rojections or other required d   X Yes No X Yes No X Yes No
8. Fixed Percentage Allocation Formula -% for each zone  9. If allocation formula is based submit attachments with su  10. Are all working, overriding, or lf not, have all working, over Have all offset operators bee 11. Will cross-flow occur? flowed production be recovered.	72.3 % 85.5 %  I upon something other than comporting data and/or explaining and royalty interests identical irriding, and royalty interests being given written notice of the power of the	current or past production, or is any method and providing rate proposed townhole commingling scompatible, will the formations rmula be reliable.	based upon some other met ojections or other required d  X Yes No Yes No X Yes No I not be damaged, will any control to the co
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8. Fixed Percentage Allocation Formula -% for each zone  9. If allocation formula is based submit attachments with su  10. Are all working, overriding, a lf not, have all working, ove Have all offset operators bee 11. Will cross-flow occur? flowed production be recove 12. Are all produced fluids from 13. Will the value of production 14. If this well is on, or commurunited States Bureau of Lan	72.3 % 85.5 %  upon something other than comporting data and/or explaining and royalty interests identical friding, and royalty interests being given written notice of the pared, and will the allocation for all commingled zones compatible decreased by commingling intized with, state or federal land Management has been notification.	current or past production, or is ing method and providing rate production and providing rate proposed downhole commingling is compatible, will the formations right be reliable.  Yes X No (If Year, etc.) Yes independent of this application of this application in writing of this application.	based upon some other met rojections or other required d  X Yes No Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No X Yes No
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### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

### OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

5/13/98

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 Villa William Turner 4-J-29.215-376  Operator Lease & Well No. Unit S-T-R
and my recommendations are as follows:  Recommend Opport
Yours very truly,
Chris Williams Supervisor, District I



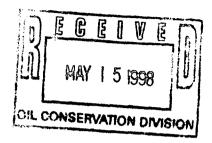
May 8, 1998

Zia Energy Inc. P.O. Box 2219 Hobbs, New Mexico 88241

RE:

Request for Exception to Rule 303-A
Downhole Commingling
William Turner Well No. 4
Unit Letter J, 1980' FSL & 1980' FEL
Section 29, T-21-S, R-37-E
Blinebry Oil & Gas, Wantz Abo
Drinkard Field
Lea County, New Mexico

P.O. Box 2409 Hobbs, NM 88241-2409 Telephone 505/393-7106



Ladies and/or Gentlemen:

Marathon Oil Company has filed an application with the New Mexico Oil Conservation division to 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 P. Kacir Production Engineer Thank Kaw TPK/ Enclosure

Agreed and accepted this	12th	day of	May	1998
by hothelson				, as representative of
Zia Energy,	Inc.			<del></del>