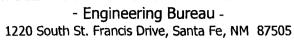
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NEW MEXICO OIL CONSERVATION DIVISION





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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505 APPLICATION TYPE _Single Well

Establish Pre-Approved Pools

EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

Yes _ Marathon Oil Company P.O. Box 3487 touston Texas <u> 77263 - 348</u>7

" Sec 27 T-21-5 R-37-E Marshall e a Well No. Unit Letter-Section-Township-Range County State X Fee OGRID No. 14021 Property Code 6428 API No. 30 - 025 - 66821 Lease Type: Federal BE DATA ELEMENT INTERMEDIATE ZONE LOWER ZONE UPPER ZONE 011 DILFEUR Paddock Pool Name Drin Kard Pool Code Top and Bottom of Pay Section <u>- 5570'</u> 5060' - 5335' (Perforated or Open-Hole Interval) Method of Production Pump (Flowing or Artificial Lift) Bottomhole Pressure re data will not be required if the botto perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone) Oil Gravity or Gas BTU (Degree API or Gas BTU) 0.740 0.702 0.711 Producing, Shut-In or Shut In Shut Producins New Zone Date and Oil/Gas/Water Rates of Last Production.
(Note: For new zones with no production history. Date: May 1987 Date: March Date: Apr 2006 applicant shall be required to attach production estimates and supporting data.) Rates: Rates: 6 oil 51 meF Rates: & oil 70 mef Gas Oil Gas Oil Gas Fixed Allocation Percentage (Note: If allocation is based upon somethi

ADDITIONAL DATA

0

%

30

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?

30 %

Yes V_ No_

40

%

Are all produced fluids from all commingled zones compatible with each other?

100

_ No_ 🗸

If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application?

%

Yes No

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%

NMOCD Reference Case No. applicable to this well:

Attachments:

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.

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.

Will commingling decrease the value of production?

than current or past production, supporting data or

explanation will be required.)

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

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

Charles E. Kanding TITLE Regulatory Compliance Rep DATE 6/15/06

TYPE OR PRINT NAME Charles E. Kendeix ____TELEPHONE NO. (<u>713</u>) <u>296 - 209 6</u>

E-MAIL ADDRESS cekendrix @ marathan oil. com



Southern Business Unit

P. O. Box 3487 Houston, TX 77253-3487

5555 San Felipe Road Houston, TX 77056-2799

Telephone: (713) 296-2096 FAX: (713) 499-6750

June 16, 2006

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: W.S. Marshall B No. 4 Downhole Commingle

TO: Mr. Will Jones

Dear Mr. Jones.

This application is for a downhole commingle permit for the W.S. Marshall B No. 4 well (API # 30-025-06821). Marathon wishes to downhole commingle production from the Paddock, Blinebry, and Drinkard formations. The Paddock is currently the producing formation with the Drinkard and Blinebry being shut in below a CIBP.

I have provided a one year plot for the Paddock production, but I do not have access to a program to plot the last year of production for the Drinkard and Blinebry formations (both completions last produced in 1987) due to changes Marathon has made in our software systems. I was able to pull the last six months of production from our accounting system for the two completions. I have used this information to derive a downhole commingle allocation basis for the formations, please see attached spreadsheet for this information.

One other outstanding issue exists for the Blinebry completion. This completion was classed as a gas well in the Blinebry. It was produced under NSP 1460, which was a set as a 120 acre non-standard proration unit. Since that time, Marathon has completed two Blinebry oil wells on two of the quarter quarter sections in that unit. I have sent an application to Mr. Michael Stogner in the NMOCD Santa Fe office for a 40 acre non-standard gas proration unit in order to be able to produce this well. I do not anticipate that there will be any problems obtaining this NSP permit, but Marathon will not proceed with the DHC work until this permit is approved. I have filed a new C-102 plat with the Hobbs office indicating the Blinebry formation will be designated as 40 acres. I also filed a new C-102 for the Drinkard, since I could not find one on the NMOCD website for this well. I have included copies of these two new plats and the existing plat for the Paddock formation with this application.

If you need any further information please contact me at ph # 713-296-2096 or through email at cekendrix@marathonoil.com.

Sincerely,

Charles E. Kendrix

Regulatory Compliance Representative

Marathon Oil Company

Charles E. Kendring

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised June 10, 2003

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies

1000 Rio Brazos	Rd., Aztec, I	NM 87410		1		anta Fe, N					Fee	Lease - 3 Copies
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Certificate Number

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

State of New Mexico Energy, Minerals & Natural Resources

Form C-102 Revised June 10, 2003

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Submit to Appropriate District Office State Lease - 4 Copies

District III Fee Lease - 3 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 District IV AMENDED REPORT 1220 S. St. Francis Dr., Santa Fe, NM 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT ² Pool Code ³ Pool Name ¹ API Number Drinkard 30-025-06821 19190 ⁶ Well Number ⁵ Property Name ⁴ Property Code W.S. Marshall B 006428 ⁸ Operator Name Elevation ⁷OGRID No. 14021 Marathon 011 Company 3415' ¹⁰Surface Location Feet from the North/South line UL or lot no. Section Township Range Lot. Idn Feet from the East/West line County 37-E 1980 660 21-S South West 27 Lea Bottom Hole Location If Different From Surface North/South line Lot. Idn UL or lot no. Section Township Feet from the Feet from the East/West line County 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 40 N NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION ¹⁷OPERATOR CERTIFICATION 16 I hereby certify that the information contained herein is true and complete to the best of my knowledge and Chale E. Kensh Charles E. Kendrix Printed Name Regulatory Compliance Rep cekendrix@marathonoil.com Title and E-mail Address 06/13/2006 18SURVEYOR 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

OIL CONSERVATION DIVISION

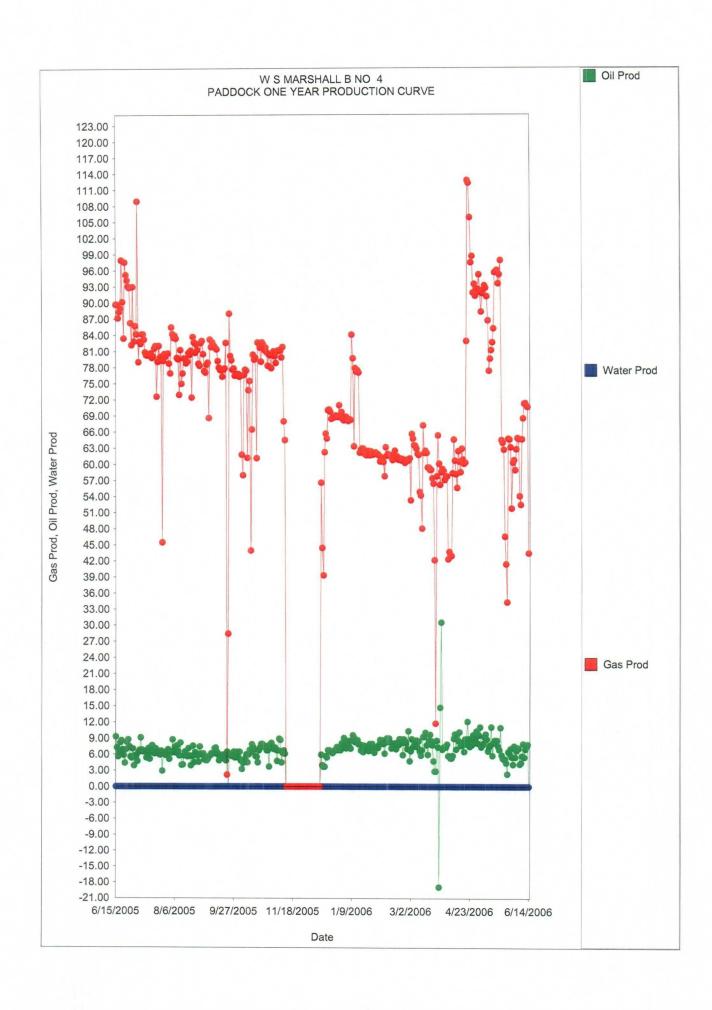
STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

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

Form C-102 Revised 10-1-;

All distances must be from the outer boundaries of the Section.

Marathon Oil Company Unity Latins 27	Operator			Leose				Well No.
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W.S. Marshall B No. 4

Last Six Months of Production for Each Completion

Blinebry	151 175	Water 0 Water		Oit Gas Water 0 780 0 April 1985 Oil Gas Water 0 678 0 January 2006	Oil Gas Water Oil 0 4973 0 March 1985 Febru Oil Gas Water Oil 0 921 0 December 2005 Nove	Gas Wate 2502 2502 24ary 1985 Gas Wate 2016 2016	<u> </u>
						9	į
	Gas	er Oil Gas Water	Oil Gas Water	Oil Gas Water		Oil Gas Water	Oll Gas
Blinebry	0 209	0 0 505 0	0 506 0	0 780 0		0 2502 0	0 9475
	May 1987		March 1987	April 1985			Totals
	Gas	Gas	Gas	Oil Gas	Gas	Gas Water	Oil Gas Water
Drinkard	0 2857	0 0 5820 0	0 358 0	0 678 0	0 921 0	0 2016 0	0 12650
	April 2006			January 2006	1		Totals
	Oil Gas Wate	Water Oil Gas Water	Oil Gas Water	Oil Gas Water	Oil Gas Water	Gas Water Oil Gas Water Oil	Oil Gas Water
Paddock	222.74 1701 7	707 233.26 1729 651	651 227.53 1638 700	700 238.2 1985 897	106.89 1113 429	429 99.74 1136 390	390 1128.4 9302 3774

	Avera	age I	Daily I	Average Daily Production	Proposed	d Alloca	ation Percentage fo	Proposed Allocation Percentage for Each Completion
	<u></u>	Gas	Oil Gas Water	ater	Oil Gas Water	àas	Water	
Blinebry		0	0 51 0	0	0%	30%	0% 30% 0%	
Drinkard	_	0	0 70 0	0	0%	48%	0% 48% 0%	
Paddock		on .	51 21	21	100% 30% 100%	30%	100%	
Total Daily Avg		တ	172 21	21				

