8/31/06 LOGGED IN

DHC

pTDS0624353530

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

11	HIS CHECKLIST IS MA	WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE	ES AND REGULATIONS
Applic	ation Acronyme		
	_	dard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous	-
	-	nhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Co ol Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measu	V V.
	-	[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion	
		[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]	-
	[EOR-Qual	ified Enhanced Oil Recovery Certification] [PPR-Positive Production	Response]
[1]	TYPE OF AP	PLICATION - Check Those Which Apply for [A]	
	[A]	Location - Spacing Unit - Simultaneous Dedication	
		□ NSL □ NSP □ SD	
	Check	One Only for [B] or [C]	2006 AUG
	[B]	Commingling - Storage - Measurement	5
		☑ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM	SU
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery	31
	[C]	WFX PMX SWD PIFI EOR PPR	
			PM
	[D]	Other: Specify	2
[2]	NOTIFICATI	ON REQUIRED TO: - Check Those Which Apply, or Does Not Apply	, ယ
[2]	[A]	Working, Royalty or Overriding Royalty Interest Owners	\sim
	[B]	Offset Operators, Leaseholders or Surface Owner	
	[C]	Application is One Which Requires Published Legal Notice	
	[-]	Typhotom is one which requires I denished Began Notice	
	[D]	Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office	
	(T)	_	
	[E]	For all of the above, Proof of Notification or Publication is Attached	i, and/or,
	[F]	Waivers are Attached	
[3]		CURATE AND COMPLETE INFORMATION REQUIRED TO PROTION INDICATED ABOVE.	CESS THE TYPE
[4]	CERTIFICAT	FION: I hereby certify that the information submitted with this application	for administrative
	val is accurate ar	ad complete to the best of my knowledge. I also understand that no action	will be taken on this
		puired information and notifications are submitted to the Division.	

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Charles E. Kendrix Charles E. Kendis Signature

Reg. Compliance Rep 8/24/06

Title

Title

Cekendrix & marathanoil.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

August 25, 2006

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

RE: Exception to 19.15.5.303 C (3) (b) DHC Mark Owen No. 15

TO: Mr. Will Jones

Dear Mr. Jones

Marathon Oil Company is seeking to downhole commingle the Penrose Skelly Grayburg and the Paddock pools in the Mark Owen No. 15 (API 30-025-37649). This well was put on production in the Paddock on 04/01/2006. Therefore, Marathon does not have production data for the well for one year. We propose to establish downhole commingle percentages for the well base on well tests taken from May 1st to mid July of 2006 for the Paddock, and well tests taken on the Penrose Skelly Grayburg during a test period in August. I am attaching a copy of the well tests and associated commingle percentages with this application.

Neither completion is capable of making top allowable. The interest ownership is identical for both formations.

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

Sincerely,

Charles E. Kendrix

Regulatory Compliance Representative

Marathon Oil Company

Charles E. Kinding

<u>District I</u>

1625 N. French Drive, Hobbs, NM 88240

Form C-107A Revised June 10, 2003

District II

1301 W. Grand Aven

District III

nd. Aztec. NM 87410

District IV

SIGNATURE_

TYPE OR PRINT NAME

E-MAIL ADDRESS_

Charles E. Kendrix

cekendrix@marathonoil.com

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

State of New Mexico Energy, Minerals and Natural Resources Department

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

APPLICATION TYPE X Single Well Establish Pre-Approved Pools **EXISTING WELLBORE**

X Yes __No

APPLICATION FOR DOWNHOLE COMMINGLING

DHC-3785 **Houston, Texas** 77253-3487 P.O. Box 3487 **Marathon Oil Company** Operator Address <u>15</u> K-35-21S-37E Mark Owen <u>Lea</u> Unit Letter-Section-Township-Range County OGRID No. <u>14021</u> Property Code <u>6454</u> API No. <u>30-025-37649</u> Lease Type: ____Federal _ __State __X_Fee **DATA ELEMENT UPPER ZONÉ** INTERMEDIATE ZONE LOWER ZONE Penrose Skelly Grayburg Paddock Pool Name 49210 50350 Pool Code Top and Bottom of Pay Section 3686' - 3885 5114' - 5243' (Perforated or Open-Hole Interval) Method of Production **Pumping Pumping** (Flowing or Artificial Lift) Bottomhole Pressure e: Pressure data will not be required if the bottom 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) 36.2 37.6 Producing, Shut-In or New Zone **Producing** New Zone Date and Oil/Gas/Water Rates of Last Production. Date: 08/23/2006 Date: Date: 07/09/2006 (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.) Rates: 22 oil/32 gas/118 water Rates: Rates: 12 oil/35 gas/105 water Oil Gas Oil Gas Oil Gas Fixed Allocation Percentage than current or past production, supporting data or 47 % % 33 67 % % % 53 % explanation will be required.) **ADDITIONAL DATA** Are all working, royalty and overriding royalty interests identical in all commingled zones? No If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? N/A Are all produced fluids from all commingled zones compatible with each other? No Will commingling decrease the value of production? _ 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? No 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. 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.

TITLE Regulatory Compliance Representative DATE

TELEPHONE NO. (713) 296-2096

08/25/2006

State of New Mexico

DISTRICT I 1625 M. FRENCH DR., HORBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. CRAIGO AVENUE, ARTESIA, NEC 84216

UL or lot No.

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Bevised JUNE 10, 2003 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

East/West line

County

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410

Section

Township

Range

Lot Idn

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1830 S. ST. FRANCE DR., SANTA PR. NW 87505 Pool Code API Number PENROSE SKELLY; GRAYBURG <u> 50350</u> Veil Number Property Code Property Name MARK OWEN 15 6454

Elevation OGRID No. Operator Name MARATHON OIL COMPANY 3374 14021 Surface Location

K 35 21-S 37-E 1650 SOUTH 1650 **WEST** LEA Bottom Hole Location If Different From Surface Lot Idn North/South line UL or lot No. Section Township Feet from the Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code Order No. 40

Feet from the

North/South line

Feet from the

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							
	OPERATOR CERTIFICATION						
	I hereby certify the the information contained herein is true and complete to the best of my knowledge and betief.						
	111111						
	Signature Signature						
	Printed Name						
	Reg. Comp. Rep. III						
	1/19/20010 Date						
L — — — — — — — — — — — — — — — — — — —	SURVEYOR CERTIFICATION						
GEODETIC COORDINATES NAD 27 NME	I hereby certify that the well location shown on this plat was plotted from field notes of						
#12 1 NoT Y=523138.0 N Drived X=869272.2 E	actual surveys made by me or under my supervisor, and that the same is true and correct to the best of my belief.						
1650' LAT.=32*25'57.12" N	JANUARY 12, 2006						
LONG.=103'08'11.39" W	Date Surveyed Signature & Scal of Professional Surveyor						
1650′	hard harm 1/17/06						
	06.11,0060						
	Certificate No. GARY RINGOF 12841						

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

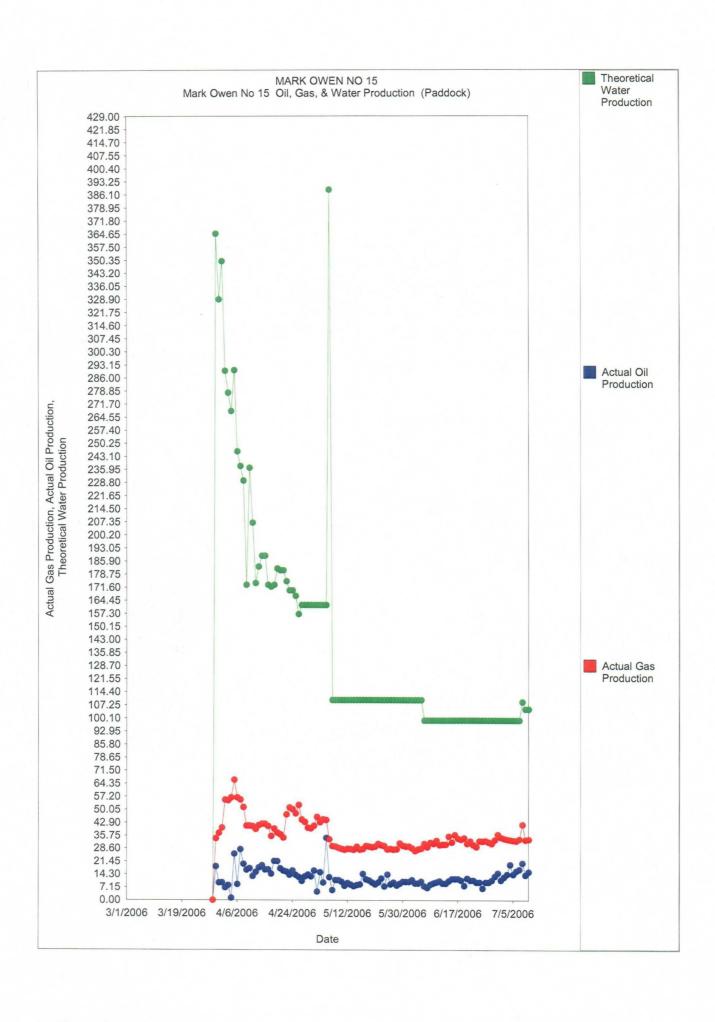
OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Submit to Appropriate District Office State Lease - 4 Copies

1000 Rio Brazos Rd., Aztec, NM 87410 District IV					Santa Fe, NM 87505				ree Lease - 3 Copies	
1220 S. St. Franci	is Dr., Santa	Fe. NM 8750	5					ПА	MENDED REPORT	
				ATION	AND ACRE	AGE DEDICA	ATION PLA	T		
	¹ API Numb	ег		² Pool Code ³ Pool Name				me		
30	-025-376	49		4921	0	Paddock				
⁴ Property	Code			⁵ Property Name					⁶ Well Number	
0064	54			Mark Owen					15	
⁷ OGRII	No.			8 Operator Name Marathon Oil Company					⁹ Elevation 3374 '	
1402	21									
					¹⁰ Surface Lo	cation				
UL or lot no.	Section	Township	Range	Lot. Id			Feet from the	East/West lin	ne County	
K	35	21-8	37-E		1650	South	1650	West	Lea	
			¹¹ Bot	tom Hole	Location If D	ifferent From Su	rface			
UL or lot no.	Section	Township	Range	Lot. I	dn Feet from t	he North/South line	Feet from the	East/West li	ne County	
12 Dedicated Acr	es 13 Joi	nt or Infill	⁴ Consolidatio	n Code 15	Order No.					
		N		ł						

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

		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Charles E. Kendung. Signature
		Charles E. Kendrix Printed Name Regulatory Compliance Rep cekendrix@marathonoil.com Title and E-mail Address
	, '	
= 1650' x 15		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.
16 50'		Date of Survey Signature and Seal of Professional Surveyer:
The state of the s		Certificate Number



Mark Owen No. 15 Well Tests

Grayburg			
Date	Oil	Gas	Water
8/20/2006	17	8	104
8/21/2006	23	30	151
8/22/2006	24	43	113
8/23/2006	25	47	105
Average Producton / Day	22	32	118
Paddock			
Date	Oil	Gas	Water
5/1/2006	10	38	128
5/2/2006	10	40	123
5/3/2006	9	35	110
5/4/2006	9	34	119
5/5/2006	8	34	118
5/6/2006	14	34	147
5/7/2006	13	34	138
5/9/2006	8	34	118
5/10/2006	14	34	147
5/11/2006	13	34	138
5/17/2006	17	36	140
5/23/2006	10	35	124
5/30/2006	12	35	121
6/6/2006	8	41	99
7/8/2006	11	44	105
7/9/2006	9	43	105
Average Producton / Day	11	37	124

Commingle Percentages Based on Well Tests

	Oil	Gas	Water	
Penrose Skelly Grayburg		67%	47%	49%
Paddock		33%	53%	51%