APP NO. FCLP 670 585337

ABOVE THIS LINE FOR DIVISION USE ONLY

3865

#### NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



#### ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE **Application Acronyms:** [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication ] NSL | NSP | SD Check One Only for [B] or [C] Commingling - Storage - Measurement M DHC CTB PLC PC OLS OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR [D] Other: Specify \_\_\_\_\_ NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] Working, Royalty or Overriding Royalty Interest Owners [A] [B] Offset Operators, Leaseholders or Surface Owner [C] Application is One Which Requires Published Legal Notice [D]Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office For all of the above, Proof of Notification or Publication is Attached, and/or, [E][F] Waivers are Attached [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE. CERTIFICATION: I hereby certify that the information submitted with this application for administrative [4] approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division. Note: Statement must be completed by an individual with managerial and/or supervisory capacity. Charles E. Kendury
Signature

Reg. Compliance Rep 02/08/07

Title

Cekendrix @ marathonoil, com <u>District I</u> 1625 N. French Drive, Hobbs, NM 88240

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003 FEB 22 2007

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** 

APPLICATION TYPE

1220 South St. Fractis Conservation Division
Santa Fe, New Mexict 220 50 St. Francis Drive Existing WELLBORE

Santa Fe. NM 87505
APPLICATION FOR DOWNHOLE COMMINGLING

\_\_\_\_ Yes \_\_\_\_No

Marathon Oil C	onpany P.O. B	ox 3487 Houston	
	17 N - 35	215-37E PH	C-3865 Lea
Lease		Section-Township-Range	County
OGRID No. 1402/ Property Co	de_ <b>6454</b> API No. <b>30-</b> 0	25-37653 Lease Type: _	FederalState _ <del></del> Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Penrose Skally Graybu	5	Eunice Son Andres
Pool Code	50350 V		24150 24171
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3670' - 3830'		3950'- 3992"
Method of Production (Flowing or Artificial Lift)	Pumpins		Pumpins
Bottomhole Pressure (Note: 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)	36.8		37. ~
Producing, Shut-In or New Zone	Producins		Shut In
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date: 62/18/6-7	Date:	Date: 9/26/06
applicant shall be required to attach production estimates and supporting data.)	Rates: 411 Gas Water 15.0 64 2	Rates:	Rates: 611 Gas water
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	82 % 17 %	% %	18 % 83 %
	ADDITIO	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and ov	royalty interests identical in all corerriding royalty interest owners bee	nmingled zones? on notified by certified mail?	Yes No
Are all produced fluids from all commi	ngled zones compatible with each o	other?	Yes No
Will commingling decrease the value of	f production?		Yes No
If this well is on, or communitized with or the United States Bureau of Land M			Yes No
NMOCD Reference Case No. applicab	le to this well:		
Attachments:  C-102 for each zone to be comming Production curve for each zone for For zones with no production histo Data to support allocation method Notification list of working, royalty Any additional statements, data or	at least one year. (If not available, ry, estimated production rates and sor formula.  y and overriding royalty interests fo	attach explanation.) upporting data. r uncommon interest cases.	

### 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 F. Kunding TITLE Reg. Compliance Rep DATE 2/20107

TYPE OR PRINT NAME Charles E. Kendrix \_\_\_\_\_TELEPHONE NO. ( 713 ) 296 - 20-96

E-MAIL ADDRESS cekendrix@marathongil. com

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

District III

District IV

UL or lot no.

12 Dedicated Acres

State of New Mexico Energy, Minerals & Natural Resources Form C-102 Revised June 10, 2003

X AMENDED REPORT

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit to Appropriate District Office State Lease - 4 Copies

Feet from the East/West line

Fee Lease - 3 Copies

County

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

Section Township

13 Joint or Infill

Range

14 Consolidation Code

Lot. Idn

15 Order No.

WELL LOCATION AND ACREAGE DEDICATION PLAT

		WELL LOCATION AND AC	REAGE DEDICATION PLAT		
	<sup>1</sup> API Number	<sup>1</sup> API Number <sup>2</sup> Pool Code <sup>3</sup> Pool Name			
	30-025-37653	24170	24170 Eunice San Andres, South		
	<sup>4</sup> Property Code	5 Pro	6 Well Number		
	006454	Ma	17		
	7OGRID No.	<sup>8</sup> Ope	<sup>9</sup> Elevation		
<u> </u>	_14021	Maratho	3370'		

<sup>10</sup>Surface Location

Feet from the North/South line

N	35	21-5	37-E		510	South	1650	West	Lea
11 Bottom Hole Location If Different From Surface									
UL or lot no. Section Township Range Lot. Idn Feet from the North/South line Feet from the East/West line County									
Ì	i								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A

	NON-STANL	DARD UNIT HAS BEE	NAPPROVEDBIII	IE DIVISION
16				<sup>17</sup> OPERATOR CERTIFICATION
	ŀ			I hereby certify that the information contained herein is
				true and complete to the best of my knowledge and
				belief.
				Charles E. Kending
,				Signature
				Charles E. Kendrix
				Printed Name
				Regulatory Compliance Rep
				_cekendrix@marathonoil.com
				Title and E-mail Address
				05/18/2006
				Date
				18 SURVEYOR CERTIFICATION
	t 1			I hereby certify that the well location shown on this
	t 3			plat was plotted from field notes of actual surveys
	E 7			made by me or under my supervision, and that the same is true and correct to the best of my belief
	1			same is true and correct to the best of my better.
				Date of Survey
	1			Signature and Seal of Professional Surveyer:
	<b>;</b> 7			
	£ · 3			
1450	*"			
16 70	7			
	Corner Coloredo			Certificate Number
	the second secon			

#### State of New Mexico

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DISTRICT I LESS M. FREDECK DR., BORRES, MM 88246

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II 1201 V. CRAND AVEREN, ARTENA, MI 68210 OIL CONSERVATION DIVISION Submit to Appropriate District Office 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Berised JUNE 10, 2003 State Lease - 4 Copies Per Lease - 3 Copies

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

DISTRICT IV WELL LOCATION AND ACREAGE DEDICATION PLAT ☐ AMENDED REPORT 1220 S. ST. FRANCIS CR., SANTA FR. MM 87505 Pool Code Pool Name API Number PENROSE SKELLY: GRAY BURG 30-025-37653 50350 Property Code Property Nam Well Number MARK OWEN 6454 17 Operator Name Elevation OCRID No. MARATHON OIL COMPANY 3370 14021

#### Surface Location

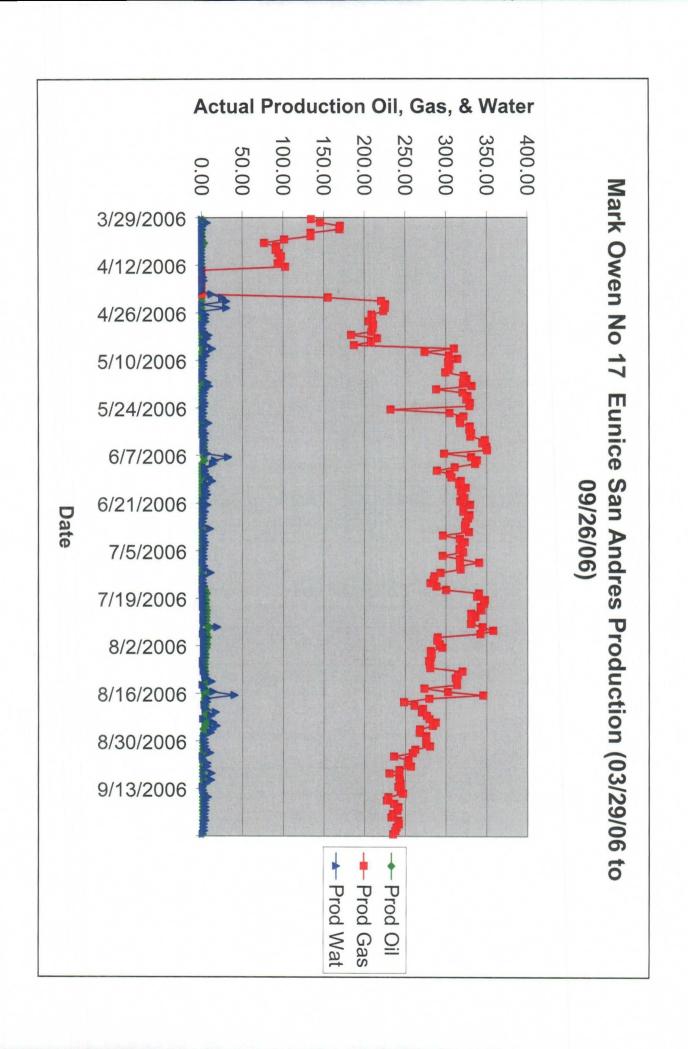
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Rest/West line	County
N	35	21-S	37-E		510	SOUTH	1650	WEST	LEA

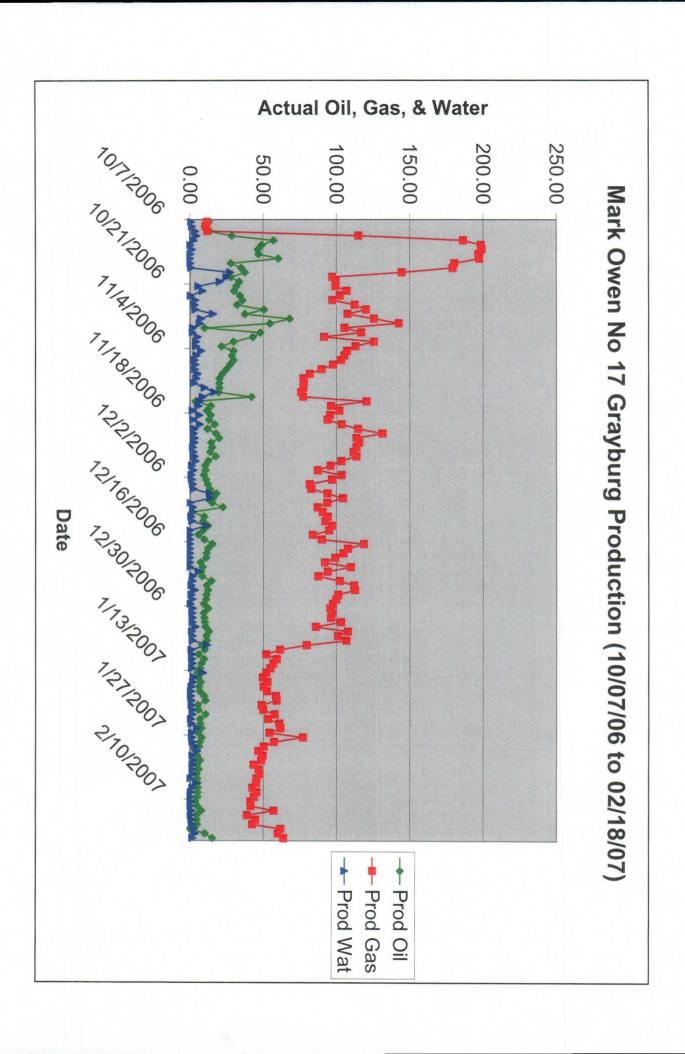
#### Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Post from the	North/South line	Feet from the	Rast/West line	County
Dedicated Acres	Joint o	r Infill Co	nsolidation (	Code Or	der No.				

## NO ALLOWARIE WILL RE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE REEN CONSOLIDATED

OR A NON-STANDARD UNIT HAS BEEN APPROVED BY T	HE DIVISION
	OPERATOR CERTIFICATION
	I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
	1 1 m x 0
	Signature  ERANK M KRUGH
	Printed Name Reg. Comp. Rep. III
	//19/06 Date
	SURVEYOR CERTIFICATION
GEODETIC COORDINATES NAD 27 NME	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
Y=521998.3 N X=869284.9 E	supervison, and that the same is true and correct to the best of my belief.
LAT.=32°25'45.84" N LONG.=103'08'11.39" W	JANUARY 11, 2006  Date Surveyed International LA
	Signature & Sea Ego
Wol and	Bary B. E. 11,7406
1650' DRILL 1	06.11.0062 Contificato No. GARY RIDSON 12841
L Comment of the second of the	Andrew State





# Mark Owen No. 17 Downhole Commingle San Andres and Grayburg Formations

The production graphs for this well are less than one year for both formations due to the age of the well. The request to combine the completions in a downhole commingle wellbore is attempt to make the well more economically viable to produce.

The San Andres completion was first brought on production on 03/20/2006 and was taken out of production on 09/25/2006 in order to re-complete the well to the Grayburg formation. The Grayburg formation was brought on production on 10/06/2006 and is currently still producing as a single well completion.

The allocation percentages for the downhole commingled well bore was derived by using average daily production for the last thirty days of production for each pool as follows:

San Andres Grayburg Totals	Oil 1.34 <u>6.13</u> 7.47	Gas 246.87 50.92 297.79	Water 4.37 1.81 6.18	
Percentages	Oil		Gas	Water
San Andres	1.34/7.47= .1	794 (18%)	246.87/297.79= .8290 (83%)	4.37/6.18=.7071 (71%)
Grayburg	6.13/7.47= .8	3206 (82%)	50.92/297.79=.1709 (17%)	1.81/6.18=.2928 (29%)