# District I

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

Form C-107A Revised June 10, 2003

District II

District III
1000 Rio Brazos Road, Aztec, NM 87410

District IV

E-MAIL ADDRESS\_\_

engineering@marbob.com

APPLICATION TYPE X Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes No

Oil Conservation Division
1220 South St. Francis Dr.
Santaffe, Man Mexico 87505

220 S. St. Francis Dr., Santa Fe, NM 87505	APPLICATIO	N FOR DOV	WNHOLE	COMMINGLIN	G		<u>X</u> Y6	s	10
MARBOB ENERGY CORPORAT	TON	Р О ВОХ	(227	)HC-36	48 ARTE	ESIA,	NM 882	211-00	27
Operator	TON	Add	ress						_
AAO FEDERAL #11	Well No.	M-1-T18	S-R27E Section-Town		DDY	COUNT	Y, NEW		<u>)                                    </u>
OGRID No. 14049 Property Co					. X	Federa		•	ee.
OGRID No. 14049 Hoperty Co	T			Dease Type	<i>.</i>				
DATA ELEMENT	UPPER Z		INTER	MEDIATE ZON	ie	]	LOWER 7	ONE	
Pool Name	RED LAKE Q-					RED L	AKE GLO	RIETA	YESO
	51300	0,5 0.1				96836			
Pool Code  Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2293-2679'						-3822'		
Method of Production	ARTIFICIAL	LIFT				ARTIF	ICIAL I	JIFT	
(Flowing or Artificial Lift)  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)	EST. 50 PSI PRODUCING I	I				1	100 PSI		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	38 <b>.5°</b>					41.8°			
Producing, Shut-In or New Zone	NEW ZONE					NEW	ZONE		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data)	Date: N/A Rates:		Date:			Date:	N/A		
Fixed Allocation Percentage	Oil	Gas	Oil	Gas		Óil		Gas	
(Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	71 %	68 %		%	%	29	%	32	%
		ADDITIO	NAI DAT			<u> </u>			
A 11 dia di di				-			., V	.,	
Are all working, royalty and overriding If not, have all working, royalty and over the control of the control							Yes X Yes	No No	
Are all produced fluids from all comm	ingled zones compat	tible with each	other?				Yes_X	No	
Will commingling decrease the value of	of production?						Yes	No_	X
If this well is on, or communitized wit or the United States Bureau of Land M	lanagement been not	ified in writing	of this appl	ication?	ds		Yes_X	No_	
NMOCD Reference Case No. applicat	ole to this well:	R-11363 P	RE-APPR	OVED POOL		_			
Attachments:  C-102 for each zone to be commin Production curve for each zone for For zones with no production histo Data to support allocation method Notification list of working, royals Any additional statements, data or	r at least one year. (I ory, estimated product or formula. ty and overriding roy	If not available ction rates and valty interests for	attach explosupporting door uncommo	anation.) ata.					
		PRE-APPRO	OVED PO	<u>OLS</u>					
If application i	s to establish Pre-Ap	proved Pools,	the following	g additional informa	tion w	ill be requ	uired:		
List of other orders approving downlow List of all operators within the propose Proof that all operators within the propose Bottomhole pressure data.	ed Pre-Approved Poo	ols							
I hereby certify that the information		d complete to	the best of	my knowledge an	ıd beli	ef.		<del> </del>	
SIGNATURE Paris	laller	TITLE	ENGINE	ER .		_DATE	03/0	7/06	
TYPE OR PRINT NAME BRIA	N COLLINS			TELEPHONE NO	O. (	ر 505	748-3	303	

3/13/06 OGGED IN

DHC DHC

APP NO. pTDS 0607251885

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 CHECKL 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] [PLC-Pool/Lease Commingling] [DHC-Downhole Commingling] [CTB-Lease Commingling] [OLM-Off-Lease Measurement] [PC-Pool Commingling] [OLS - Off-Lease Storage] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Sait Water Disposal] [IPI-Injection Pressure increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Simultaneous Dedication | NSP | Check One Only for [B] or [C] Commingling - Storage - Measurement ☑ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD PPR EOR PPR [D] Other: Specify NOTIFICATION REQUIRED TO: - Check Those Which Apply, or \( \propto \) Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners Bl Offset Operators, Leaseholders or Surface Owner [C] Application is One Which Requires Published Legal Notice $\mathbf{D}$ 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 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 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. Print or Type Name Signature Title Date

e-mail Address

# Engineering Summary Form C-107A Application for Downhole Commingling

# Marbob Energy Corporation AAO Federal No. 11 (Unit M, Sec. 1-T18S-R27E)

Marbob Energy proposes to downhole commingle the San Andres (Red Lake Q-GB-SA 51300) and the Yeso (Red Lake Glorieta Yeso, NE 96836) in the captioned well. This proposal is identical to the downhole comminglings that Devon Energy has done offsetting the captioned wells (Orders R-11363, DHC-2390, DHC-2685, DHC-2701).

No crossflow will occur because this well will be rod pumped in a pumped down condition. The MJ State No. 1, when completed in the Yeso, will be used as a "typical" Yeso well. The MJ State No. 2, when completed in the San Andres, will be used as a "typical" San Andres well. The proposed zonal allocation is described below.

Yeso: Production declines exponentially at 84%/yr. for one year, followed by 35%/yr. for oil and 32%/yr. for gas. (Best engineering estimate using the production history of nearby Devon wells.)

EUR = 
$$\frac{-365 (90-14)}{\ln (1-.84)}$$
 +  $\frac{-365 (14-1.5)}{\ln (1-.35)}$  = 25.7 MBO

EUR = 
$$-365 (140-22) + -365 (22-5) = 39.6$$
 MMCF In (1-.84) In (1-.32)

San Andres: Production declines exponentially at 80%/yr. for one year, followed by 24%/yr. for oil and 20%/yr. for gas. (Best engineering estimate using the production history of nearby Devon wells.)

Qi = 145 bopd d=80%/yr. Q1yr = 29 bopd d=24%/yr.Qel = 1.5 bopd assumed

EUR =  $\frac{-365 (145-29)}{\ln (1-.80)}$  +  $\frac{-365 (29-1.5)}{\ln (1-.24)}$  = 62.9 MBO

Qi = 180 mcfd d=80%/yr. Q1yr = 36 mcfd d=20%/yr. Qel = 5 mcfd assumed

EUR =  $\frac{-365 (180-36)}{\ln (1-.80)}$  +  $\frac{-365 (36-5)}{\ln (1-.20)}$  = 83.4 MMCF

Yeso Oil = <u>25.7 MBO</u> = .29 = 29% 25.7 + 62.9

San Andres Oil = 1-.29 = .71 = 71%

Yeso Gas = <u>39.6 MMCF</u> = .32 = 32% 39.6 + 83.4

San Andres Gas = 1-.32 = .68 = 68%

DISTRICT I 1625 N. FRENCE DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

Revised JUNE 10, 2003

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

#### DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NW 88210

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

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

1220 S. ST. PHANCES DEL, SANTA FE, NA	77000		
API Number	Pool Code	Pool Name	
	96836	RED LAKE; GLORIETA YESO, NOR	THEAST
Property Code	Prop	erty Name	Well Number
29793	A A O	FEDERAL	11
OGRID No.	Oper	ator Name	Elevation
14049	MARBOB ENER	GY CORPORATION	3592'

#### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
М	1	18-S	27-E		890	SOUTH	660	WEST	EDDY

#### Bottom Hole Location If Different From Surface

UL or lot N	-   :	Section	Townshi	ip	Range	Lot lo	dn	Feet from the	North/South line	Feet from the	Rast/West line	County
Dedicated A	res	Joint or	- Infill	Con	solidation (	ode	Orc	der No.				
40	1					}						

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

	OR A NON-STANDARD UNIT HAS B	EEN APPROVED BY TH	E DIVISION
LOT 4	LOT 3 LOT 2	LOT 1	OPERATOR CERTIFICATION  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
			Nancy T. Bratcher Printed Name
			Land Department Title 12/6/2005 Date
		-	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
			supervison and that the same is true and correct to the best of my belief.  NOVEMBER 7, 2005  Date Surveyed LA
3577.0' / 3588.0' / 600'   600'   7586.0'   758	GEODETIC COORDINATES  NAD 27 NME  Y=644387.7 N X=529319.0 E		Signature & Seal of Professional Surveyor    Mail   Culon   H 10 05
3586.1' 6 3602.8'	LAT.=32'46'17.32" N LONG.=104'14'16.61" W		Certificate No. RONALD 1. RIDSON 3239

Form 3160-5 (April 2004)

#### **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007

NMNM0557371	
5. Lease Serial No.	

SUNDRY	NOTICES AND REPOR	TS ON WEL	.I.S	NMNMUS	5/3/1
Do not use th	is form for proposals to diell. Use Form 3160-3 (APD	ill or to re-e	nter an	6. If Indian	, Allottee or Tribe Name
SUBMIT IN TR	IPLICATE- Other instruct	ons on rever	se side.	7. If Unit or	CA/Agreement, Name and/or No.
1. Type of Well  X Oil Well	Gas Well Other			8. Well Nar	me and No
2. Name of Operator				AAO FE	DERAL #11
MARBOB	ENERGY CORPORATION	70 17 (17 17		9. API We	No. - 34555
3a Address P. O. BOX 227, AR	resia, NM 88211-0227	Phone No. (include 505-748-:		<u></u>	d Pool, or Exploratory Area
4. Location of Well (Footage, Sec.,					KE GLORIETA/YESO NE
SEC. 1-T18S-R27E,					or Parish, State
890 FSL 660 FWL, 1	\W/4SW/4			EDDY C	OUNTY, NM
12. CHECK A	PPROPRIATE BOX(ES) TO INC	ICATE NATUR	E OF NOTICE,	REPORT, OF	OTHER DATA
TYPE OF SUBMISSION		TYP	E OF ACTION	•	
[▼]v a		Deepen	Production (S	tart/Resume)	Water Shut-Off
Notice of Intent		racture Treat	Reclamation		Well Integrity  Mother DOWNHOLE
Subsequent Report		New Construction Plug and Abandon	Recomplete Temporarily A	handon	COMMINGLING
Final Abandonment Notice		Plug Back	Water Disposa		
testing has been completed. Find determined that the site is ready  SEE ATTACHED C-10  DIVISION ORDER #R-  THE PROPOSED ALLOG	7A APPLICATION FOR DO- -11363 PRE-APPROVED CATION IS: REDLAKE Q- REDLAKE GOODLILL BE SUBMITTED IF	OWNHOLE COL POOLS -GR-SA 5130 LORIETA/YE	ments, including reclar  MMINGLING  00 - OIL 71  SO NE 96836	mation, have bee  % - GAS - OIL 2	n completed, and the operator has  68%  9% - GAS 32%
14. I hereby certify that the fore Name (Printed/Typed)	going is true and correct				
BRIAN COLLINS		Title	ENGINEER		
Signature / 2000	Inllen.	Date	03/07/06		
	THIS SPACE FOR FED			USE	
Approved by		Tit	tle	n	ate
Conditions of approval, if any, are a	ttached. Approval of this notice does n	ot warrant or			
certify that the applicant holds legal	or equitable title to those rights in the s	ubject lease Of	fice		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

which would entitle the applicant to conduct operations thereon.

Submit 3 Copies To Appropriate District Office		f New Mex		Form C-103
District I	Energy, Mineral	s and Natur	al Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240				WELL API NO. 30-015- 34 <i>555</i>
District II 1301 W. Grand Ave., Artesia, NM 88210	OIL CONSER	RVATION :	DIVISION	5. Indicate Type of Lease
District III	1220 Sou	th St. Franc	cis Dr.	STATE FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa l	Fe, NM 87:	505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM				
87505 SUNDRY NOT	ICES AND REPORTS	ON WELLS		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPO	DSALS TO DRILL OR TO DE	EPEN OR PLU		_
DIFFERENT RESERVOIR. USE "APPLI PROPOSALS.)	ICATION FOR PERMIT" (FO	ORM C-101) FO	RSUCH	AAO FEDERAL
1. Type of Well: Oil Well	Gas Well  Other			8. Well Number 11
2. Name of Operator		— n		9. OGRID Number
	BOB ENERGY CORPO	RATION		14049
- · · · · · · · · · · · · · · · · · · ·	BOX 227 TESIA, NM 88211-	0227		10. Pool name or Wildcat RED LAKE GLORIETA/YESO NE
	ESIA, NM 00211-	0227		RED LAKE GLORIETA/TESO NE
4. Well Location	OOO foot from th	· COUTU	line and 66	O fort from the TITE line
Unit Letter M :			line and <u>66</u>	
Section 1	1 ownsnip	18S Rai		NMPM EDDY County NM
		wneiner DK, 592 <b>'</b>	KKB, KI, GK, elc.)	
Pit or Below-grade Tank Application	999			
Pit typeDepth to Groundy	vaterDistance from r	nearest fresh wa	ter well Dista	ance from nearest surface water
Pit Liner Thickness: mil	Below-Grade Tank: \	Volume	bbls; Con	nstruction Material
12 Check	Appropriate Roy to 1	Indicate Na	ture of Notice	Report or Other Data
12. Check	appropriate box to	inarcaic 140	iture of reduce, i	report of Other Data
	NTENTION TO:			SEQUENT REPORT OF:
PERFORM REMEDIAL WORK			REMEDIAL WORK	
TEMPORARILY ABANDON	CHANGE PLANS		COMMENCE DOIL	LLING OPNS.□ P AND A □
I EIVIPORARILT ABANDON			COMMENCE DRIE	ELING OFNS. P AND A U
PULL OR ALTER CASING			CASING/CEMENT	<del>_</del>
PULL OR ALTER CASING	MULTIPLE COMPL		CASING/CEMENT	<del>_</del>
PULL OR ALTER CASING  OTHER: DOWNHOLE COMMIN	MULTIPLE COMPL		CASING/CEMENT OTHER:	TJOB -
PULL OR ALTER CASING  OTHER: DOWNHOLE COMMIN  13. Describe proposed or company to the company to	MULTIPLE COMPLIGLING pleted operations. (Clean	□ K rly state all p	CASING/CEMENT OTHER: ertinent details, and	JOB
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