W. Jones

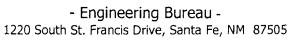
10/3/06 LOGGED IN

DHC

APP NO. pTDS 66276471

ABOVE THIS LINE FOR DIVISION USE ONL

### NEW MEXICO OIL CONSERVATION DIVISION





#### **ADMINISTRATIVE APPLICATION CHECKLIST**

T⊢	IIS CHECKLIST IS M	ANDATORY FOR ALL ADMINISTRATIVE APPLIC	CATIONS FOR EXCEPTIONS TO DIVISI THE DIVISION LEVEL IN SANTA FE	ON RULES AND REGULATIONS
Applic	[DHC-Down	s: ndard Location] [NSP-Non-Standard nhole Commingling] [CTB-Lease ( ool Commingling] [OLS - Off-Lease	Proration Unit] [SD-Simultar Commingling] [PLC-Pool/Lea Storage] [OLM-Off-Lease M X-Pressure Maintenance Expa Pl-Injection Pressure Increas	ase Commingling] Measurement] ansion] e]
[1]	TYPE OF AP [A]	PLICATION - Check Those Which Location - Spacing Unit - Simultan NSL NSP SD		
	Check [B]	Cone Only for [B] or [C] Commingling - Storage - Measuren DHC CTB PLC		LM
	[C]	Injection - Disposal - Pressure Incre		PPR
	[D]	Other: Specify		_
[2]	NOTIFICAT: [A]	ION REQUIRED TO: - Check Thos Working, Royalty or Overridir		t Apply
	[B]	Offset Operators, Leaseholders	s or Surface Owner	
	[C]	Application is One Which Rec	uires Published Legal Notice	
	·[D]	Notification and/or Concurrent U.S. Bureau of Land Management - Commission	Approval by BLM or SLO oner of Public Lands, State Land Office	
	[E]	For all of the above, Proof of N	Notification or Publication is A	ttached, and/or,
	[F]	Waivers are Attached		
[3]		CURATE AND COMPLETE INFO ATION INDICATED ABOVE.	ORMATION REQUIRED TO	PROCESS THE TYPE
	al is <b>accurate</b> ai	<b>FION:</b> I hereby certify that the inform of complete to the best of my knowled quired information and notifications a	edge. I also understand that <b>no</b>	
	Note:	Statement must be completed by an indivi-	dual with managerial and/or supervi	sory capacity.
Print or	Type Name	Signature	Title	Date
i i i i i i i i i i i i i i i i i i i	13pe rume	organical	inc	Date
			e-mail Address	

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

Form C-107A Revised June 10, 2003

NE

District II
1301 W. Grand Aver

E-MAIL ADDRESS\_\_\_

engineering@marbob.com

District III

Oil Conservation Division 1220 South St. Francis Dr.

APPLICATION TYPE

X Single Well
lish Pre-Approved Pools

District IV  220 S. St. Francis Dr., Senia Fe, NM #7505		MHPEE COMMINCTING	EXISTING WELLBORE  YesNo			
MARBOB ENERGY CORPORAT	ION P O BOX		-380 SIA, NM 88211-0027			
AAO FEDERAL #10	K-1-T18S-		COUNTY, NEW MEXICO			
Case OGRID No. 14049 Property Cod		Section-Township-Range  15-34576 Lease Type:	FederalStateFee			
DATA ELEMENT UPPER ZONE INTERMEDIATE ZONE LOWER ZONE						
Pool Name	RED LAKE Q-GB-SA		RED LAKE GLORIETA YESO			
Pool Code	51300		96836			
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2246-2623' PERFORAT	ED	3583-3770' PERFORATED			
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT		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 BHP	-	EST. 100 PSI PRODUCING BHP			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	38.5°		41.8°			
Producing, Shut-In or 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:			
Fixed Allocation Percentage	Oil Gas	Oil Gas	Oil 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	NAL DATA				
Are all working, royalty and overriding If not, have all working, royalty and over			Yes X No No No No			
Are all produced fluids from all comm	ingled zones compatible with each	other?	Yes_X No			
Will commingling decrease the value of	of production?		Yes No_ X			
If this well is on, or communitized with or the United States Bureau of Land M	lanagement been notified in writing	of this application?	YesX No			
NMOCD Reference Case No. applicab	ele to this well:	RE-APPROVED POOL	<u> </u>			
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-APPRO	OVED POOLS				
If application is	s to establish Pre-Approved Pools,	the following additional information w	rill be required:			
List of all operators within the propose	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	n above is true and complete to	the best of my knowledge and bel	ief.			
SIGNATURE / Zmil	uller' TITLE_	ENGINEER	DATE 09/22/06			
TYPE OR PRINT NAME_BRIA	N COLLINS	TELEPHONE NO. (	505 748-3303			

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

## Marbob Energy Corporation AAO Federal No. 10 (Unit K, 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.)

<u>San Andres</u>: 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%

#### State of New Mexico

DISTRICT | 1625\_N. PREPCH\_DR., MORRE, MM - 86940-

Energy, Minerals and Natural Resources Department

DISTRICT II

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised JUNE 10, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III 1000 Rio Brazos Rd., Antec, NM 67410

DISTRICT IV 1220 S. ST. FRANCES DR., SANTA PK. S	WELL LOCATION AND	WELL LOCATION AND ACREAGE DEDICATION PLAT		
API Number	Pool Code	Pool Code Pool Name		
y or a wind allocator or you had allocated this total a Africa to a since a popular and friends a common and child children debugs, such that and	96836	Red Lake; Glorieta Yeso, NOR	THEAST	
Property Code	Proj	erty Name	Well Number	
29793	A A O	FEDERAL	10	
OCRID No.		ator Name	Blevetion	
14049	MARBOB ENER	MARBOB ENERGY CORPORATION		

#### Surface Location

ĺ	UL or lot No.	Section	Township	Range	lot idn	Feet from the	North/South line	Post from the	East/West line	County	_
	K	1	-18-S	27-E		2060	SOUTH	2160	WEST	EDDY	

#### Bottom Hole Location If Different From Surface

ſ	UL or lot No.	Section	Townshi	p Range	Lot Ida	Post	from the	North/South line	Peet from the	East/West line	County
	Discontinuo en esta de la companya de Sanda de S				**************************************		man di kanan dalah kanan dalah d	AND A PROGRAM WHICH AND A SECOND SHAP THE SECOND SHAP AND ASSESSMENT OF THE PROPERTY OF THE PR		and the second s	
t	Dedicated Acres	Joint of	Infill	Consolidation C	ode	Order No.			L		<u> </u>
1	40		1		1						
L											

### 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

LOT 4	LOT 5	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.
a Managana de James de Palancia e e e				Dance Bratcher
				Nancy T. Bratcher Printed Name
The second section of the second section of the second	- dad many " management to a sub-		AND P. S. P. S.	Land Department
	1 1			11/28/2005 Dete
NA BANKA KANGGERRA MAR 4 - NA AMBARKA KANGGARANIN MAMMANIN PAR FINIS 1 AMBARKA	. The state of the			SURVEYOR CERTIFICATION
	3598.1' 36124'	GEODETIC COC NAD 27		I hereby certify that the well location show on this plat was plotted from Neld notes.
2160		Y=645537 X=53080		actual surveys made by me or under to supervisen, and that the same is true of correct to the best of my belief.
,	3592.9' 3622,0'	LAT.=32*46'2		NOVEMBER 7, 2005
	144124 141 X	LONG.=104'13	*59.23** W	Date Surveyed Management LA Signature & Shell of / Ohly Professional Surveyor Ohly MEX
				Mald Condon 4/10/05
				Certificate No. BONALD 1 BIDSON 323
and the first of the second	1	1		Management of the Comment of the Com

Office *	of New Mexico	Form C-103			
District I Energy, Minera 1625 N. French Dr., Hobbs, NM 88240	Is and Natural Resources	WELL API NO.			
District II OIL CONSE	RVATION DIVISION	30-015-34576			
1301 W. Gidila Ave., Altesia, INVI 88210	th St. Francis Dr.	5. Indicate Type of Lease			
1000 Pio Brazos Rd. Aztec NM 87410		STATE FEE  6. State Oil & Gas Lease No.			
District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505	$\frac{1V}{1}$ Santa Fe, NM 8/505				
SUNDRY NOTICES AND REPORTS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO D		7. Lease Name or Unit Agreement Name			
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FO		AAO FEDERAL			
1. Type of Well: Oil Well 💢 Gas Well 🔲 Other		8. Well Number 10			
2. Name of Operator	AD A TO T ON	9. OGRID Number			
MARBOB ENERGY CORPO  3. Address of Operator P O BOX 227	RATION	14049 10. Pool name or Wildcat			
ARTESIA, NM 88211-	-0227	RED LAKE GLORIETA/YESO NE			
4. Well Location					
	ne <u>SOUTH</u> line and 2				
Section 1 Township		NMPM EDDY County NM			
11. Elevation (Show 3	whether DR, RKB, RT, GR, etc., 607' GR				
Pit or Below-grade Tank Application  or Closure					
Pit typeDepth to GroundwaterDistance from	nearest fresh water well Dist	ance from nearest surface water			
Pit Liner Thickness: mil Below-Grade Tank:	Volume bbls; Co	nstruction Material			
12. Check Appropriate Box to	Indicate Nature of Notice,	Report or Other Data			
NOTICE OF INTENTION TO:	SUB	SEQUENT REPORT OF:			
PERFORM REMEDIAL WORK   PLUG AND ABANDO					
TEMPORARILY ABANDON   CHANGE PLANS	☐ COMMENCE DRI	LLING OPNS.□ P AND A □			
PULL OR ALTER CASING	CASING/CEMEN	T JOB			
OTHER: DOWNHOLE COMMINGLING	☑ OTHER:	. П			
13. Describe proposed or completed operations. (Clear					
of starting any proposed work). SEE RULE 1103.	For Multiple Completions: At	tach wellbore diagram of proposed completion			
or recompletion.					
SEE ATTACHED C-107A APPLICATION FOR	DOWNHOLE COMMINGLING				
DIVISION ORDER #R-11363 PRE-APPROVED					
THE PROPOSED ALLOCATION IS. DEDIAM	1 0 CD CA E1200 OTT	719 040 (09			
THE PROPOSED ALLOCATION IS: REDLAKE REDLAKE	•	71% - GAS 68% 36 - OIL 29% - GAS 32%			
N22 21112		30 311 27% 3115 32%			
NEW ALLOCATIONS WILL BE SUBMITTED IN	ACTUAL WELL PRODUCTI	ON IS SIGNIFICANTLY			
DIFFERENT THAN THAT ABOVE.					
I hereby certify that the information above is true and comp	lete to the hest of my knowledge	a and haliaf to the second second			
grade tank has been/will be constructed or closed according to NMOC	D guidelines , a general permit	or an (attached) alternative OCD-approved plan .			
SIGNATURE / him Miller	TITLE ENGINEER	DATE OF 100 100			
SIGNATURE / Municipal Signature	TITLE ENGINEER	DATE09/22/06			
Type or print name BRIAN COLLINS	E-mail address:	Telephone No. 748-3303			
For State Use Only	engineering@	marbob.com			
APPROVED BY:	TITLE	DATE			
Conditions of Approval (if any):		DAIL			

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

5.	Lease Serial	No.
	NIMINIMA	57371

SUNDRY	NMNM557371				
Do not use th	6. If Indiar	n, Allottee or Tribe Name			
abandoned we	II. Use Form 3160 - 3 (	APD) IOI SUCII P	oposais.		·····
	PLICATE- Other instr	ructions on rev	erse side.	7. If Unit o	r CA/Agreement, Name and/or No.
1. Type of Well Oil Well	8. Well Na	me and No.			
2. Name of Operator MARBOB E	AAO F	FEDERAL #10			
3a, Address	9. API W 30-015	en No. -34576			
3a. Address       3b. Phone No. (include area code)         P O BOX 227, ARTESIA, NM 88211-0227       505-748-3303					nd Pool, or Exploratory Area
4. Location of Well (Footage, Sec., 7	F., R., M., or Survey Description)				Or Parish, State
SEC. 1-T18S-R27E, UNIT K 2060 FSL 2160 FWL, NE/4SW	//4				COUNTY, NM
12. CHECK AF	PROPRIATE BOX(ES) TO	INDICATE NATO	URE OF NOTICE,	REPORT, O	R OTHER DATA
TYPE OF SUBMISSION		T	YPE OF ACTION		
Notice of Intent	Acidize Alter Casing Casing Repair	Deepen Fracture Treat New Construction	Production (S Reclamation Recomplete	tart/Resume)	Water Shut-Off Well Integrity Other DOWNHOLE
Subsequent Report	Change Plans	Plug and Abandor	_ `	bandon	COMMINGLE
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposa	1	
determined that the site is ready SEE ATTACHED C-107A DIVISION ORDER #R-11 THE PROPOSED ALLO	for final inspection.)  APPLICATION FOR DOW  363 PRE-APPROVED POOI  CATION IS: RED LAKE Q-C	NHOLE COMMING LS GR-SA 51300 - OIL 7 ORIETA/YESO NE	GLING 71% - GAS 68% 96836 OIL - 29% - G	AS 32%	en completed, and the operator has
14. I hereby certify that the fore Name (Printed/Typed)	going is true and correct				
BRIAN COLLED	is	Title	ENGINEER		
Signature / 3m	Indi-	Date		09/22/2006	
	THIS SPACE FOR	FEDERAL OR	STATE OFFICE	USE	
Approved by			Title		Date
Conditions of approval, if any, are a certify that the applicant holds legal which would entitle the applicant to	or equitable title to those rights i		Office		
Title 18 U.S.C. Section 1001 and Title States any false, fictitious or fraudul	e43 U.S.C. Section 1212, make it a ent statements or representations	a crime for any person as to any matter within	knowingly and willfully its jurisdiction.	to make to an	y department or agency of the United