DAC PSCM0511633949

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

AD	MILITIO I ILLA I I VII	ALL LIVAL	1011 01111011		
THIS CHECKLIST IS MANDA	ATORY FOR ALL ADMINISTRATIVE WHICH REQUIRE PROCES	E APPLICATIONS FOR SING AT THE DIVISIO	EXCEPTIONS TO DIVISION LEVEL IN SANTA FE	ON RULES AND RE	GULATIONS
Application Acronyms:	* •	•			(x,y,y,y,z) = (x,y,y,z)
	rd Location] [NSP-Non-Sta	andard Proration	Unit] [SD-Simultan	eous Dedicati	on]
	, . - -	ease Commingilr		se Commingil	
•		Leasé Storage]	[OLM-Off-Lease M		
	X-Waterflood Expansion]	[PMX-Pressure	Maintenance Expa	nsion]	
out the contract of the second	[SWD-Salt Water Dispose				
[EOR-Qualified	d Enhanced Oil Recovery	Certification]	PPR-Positive Produ	ction Respons	e]
· -					
	ICATION - Check Those \				
[A] Lo	ocation - Spacing Unit - Sir	nultaneous Dedica	ation	1	
] NSL 🔲 NSP 🔲	SD			•
Check One	e Only for [B] or [C]		The state of the s		
	ommingling - Storage - Me	asurement	And the second		
		PLC PC	□ OLS □ OI	LM	-
		· · · · · · · · · · · · · · · · · · ·		•	
[C] In	jection - Disposal - Pressur	e Increase - Enha	nced Oil Recovery		
	WFX PMX			PR	
<u></u>	🖂 🖂	~, <u></u>			•
[D] Ot	ther: Specify	en e		•	
[2]				•	e series
[2] NOTIFICATION	REQUIRED TO: - Check	r Those Which A	nnly or □ Does Not	Annly	
	Working, Royalty or Ove			rppry	1
[A] L	1 Working, Royalty of OW	ciriding Royalty 1	morest Owners	• .	
[B]	Offset Operators, Leaseh	valders or Surface	Over		
[12]	Offset Operators, Leaser	lolucis of Bullace	Owner		
5544 (C) [C]	Application is One Whice	h Deguires Dublis	hed I emil Notice		
[0]	Application is one wine	M Roquites I dom	silod Logai Holloc		
. 4 % [D]	Notification and/or Conc	ourrent American 1	W RI M or SI O		
	U.S. Bureau of Land Management - C	ommissioner of Public Lan	ds. State Land Office		
		•			
	For all of the above, Proc	of of Notification	or Publication is Att	ached, and/or,	1. 1. 1. 1. 1. 1.
· .				•	
[F] [Waivers are Attached			•	
•					
[3] SUBMIT ACCUR	ATE AND COMPLETE	INFORMATIO	N REQUIRED TO	PROCESS T	HE TYPE
OF APPLICATION	ON INDICATED ABOVE		Kanada in ta	•	
					: ''
[4] CERTIFICATION	N: I hereby certify that the	information subm	nitted with this applic	cation for admi	nistrative
	omplete to the best of my k				
	ed information and notificat			· · · · · · · · · · · · · · · · · · ·	unon on uno
· -	:				
Note: State	ement must be completed by an	individual with man	agerial and/or supervise	ory capacity.	•
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	<u> </u>				
Print or Type Name	Signature	14.	Title		Date
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			e-mail Address		

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•	energy corporation	

FAX TRANSMITTAL SHEET

DATE:	4/26/05	
TO:	4/26/05 Will pones	
	<u> </u>	
Fax %:	505-476-3462	
FROM:	Debbie	
TOTAL #	of pages (including cover sheet):	
Commen	AAD Fed # 7	

IF YOU HAVE ANY TROUBLE RECEIVING THIS FAX. PLEASE CONTACT ME.

PMOME: 505/746-3308 PAX: 505/746-2523

.	Corp of N	ew Mexico	Form C-107A		
District I 625 N. Presch Chive, Hobbs, 1004 100340	Energy, Minerals and Nan	iral Resources Department	Revised June 10, 2003		
District II 341 W. Chand Andrea, Arroya, 1484 20210		vation Division	APPLICATION TYPE		
District III 		h St. Francis Dr. ew Mexico 87505	X Single Well Establish Pre-Approved Pools		
District IV		VNHOLE COMMINGLING	EXISTING WELLBORE X YesNo		
1224 S. S. Francis Dr., Sattle Fa. 1006 17543	APPLICATION FOR DOV	1)15-30	143		
MARBOB ENERGY CORPORAT	TON POBOX 2		IA, NM 88211-0227		
Operator AAO FEDERAL #7	G-1-T18S-R27E	EDDY CO			
Leave		ection-Township-Range	County		
OGRID No. 14049 Property Co.	ie 29793 API No. 30-0	15-33473 Lease Type: X			
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZOME		
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)	2133-3296' PERF'D		3577-3856' PERF'D		
Method of Production (Plowing or Artificial Lift)	ARTIFICIAL LIFT	ARTIFICIAL LIFT			
BOTTOMHOLE Pressure (Note: Pressure data will not be required if the bottom perfection in the lower zone is within 150% of the depth of the top perfection in the upper sone)	EST. 50 PSI PRODUCING BHP		EST. 100 PSI PRODUCING BHP		
Oil Gravity or Gas BTU (Dogree API or Gas BTU)	38.5°		41.8°		
Producing, Shut-In or New Zone Date and Oil/Gas/Water Rates of	NEW ZONE		PRODUCING		
Last Production. (Note: For new zones with no production history,	Date:	Date:	Date: JANUARY 2005		
applicate that be required to allow productive ordinates and supporting deep.)	N/A Rates:	Rates:	60 BOPD 80 MCFD 250 BWPD		
Fixed Allocation Percentage	Oil Gas	Oil Gas	Oil Gas		
than current us past production, supporting dots 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 ov	royalty interests identical in all cor	mmingled zones?	YesX No Yes No		
Are all produced fluids from all commi	ngled zones compatible with each o	other?	Yes_X No		
Will commingling decrease the value of	f production?		Yes No_X		
If this well is on, or communitized with or the United States Bureau of Land M	, state or federal lands, has either the anagement been notified in writing	ne Commissioner of Public Lands of this application?	Yes_X No		
NMOCD Reference Case No. applicable	e to this well:R-11363_PI	RE-APPROVED POOL	 ·.		
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or each control of the comments of the comming of the comments of the comming of the comments of the comm	at least one year. (If not available, ry, estimated production rates and s or formula. and overriding royalty interests fo	attach explanation.) supporting data. r uncommon interest cases.	,		
	PRE-APPRO	VED 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.	
SIGNATURE / Milellen. TITLE	ENCINEER DATE	03/15/05
TYPE OR PRINT NAME BRIAN COLLINS	TELEPHONE NO, (505)	748-3303
E-MAIL ADDRESS engineering@marbob.com		

DISTRICT | P.O. Ban 1980, Hobbs, 344 60841-1880

State of New Mexico

Pacific, Minerals and Netural Reservoir Department

Form C-102 Revised February 10, 1994 Submit to Appropriate Detrict Cipies State Lease - 4 Copies Fon Lease - 3 Copies

DISTRICT II P.O. Denver ID, defenda. NE 68211-0718

DISTRICT III

OIL CONSERVATION DIVISION P.O. Box 2088

JUL 23 2003

1000 Ris Brasos R4., Aston, NM 87410 DISTRICT IV P.R. SGX 2848, EARTH FE, NM. 87504-8085

Santa Fe, New Mexico 87504-2088

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Fool Code Fool Name		
	96836	RED LAKE; CLORIETA-YESO, NE	
Property Code	Frop	rty Name	Well Number
29793	AAO 1	AAO FEDERAL	
GGRM No.		tor Name	Elevation
14049	MARBOB ENER	GY CORPORATION	3645'

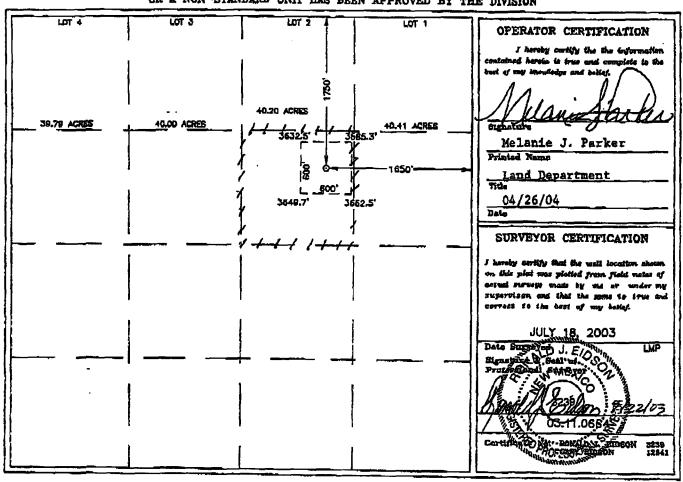
Surface Location

W or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
G	1	18 S	27 E		1750	NORTH	1650	EAST	EDDY
									I

Bottom Bole Location If Different Prom Surface

							2000		
UL or lot No.	Section	Founship	Range	Lot Idn	Feat from the	North/Spath line	Foot from the	East/Work Hing	County
Dedicated Acres	Joint of	Dafin Co	asolidation C	ode Ori	der No.		L	<u> </u>	

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



Engineering Summary Form C-107A Application for Downhole Commingling

Marbob Energy Corporation AAO Federal No. 7 (Unit G, 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.)

```
ίΩ
      = 90 bopd
                     d=84%/yr.
                     d=35%/yr.
Q1vr = 14 bopd
                    assumed
Qel
     = 1.5 bopd
EUR = -365(90-14) + -365(14-1.5) = 25.7 MBO
         In (1-.84)
                        ln(1-.35)
                    d=84%/yr.
Qi
     = 140 mcfd
Q1yr = 22 mcfd
                     d=32%/yr.
     = 5 mcfd
                    assumed
Qel
EUR = -365(140-22) + -365(22-5) = 39.6 MMCF
                        In (1-.32)
         In (1-.84)
```

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. Qe! = 5 mcfd assumed

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

Yeso Oil = 25.7 MBO = .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%

Apr-26-05 08:20am From-MA	RBOB MONTH:	15057462523	T-674 P.06/08	F-970
CO 26 A	TP LP PREV ES		ÖİL TÜWTR	4.45
CO 26 A ELK HORN GPM BY BY BY BY BY BY BY BY BY B	TP LP PREV ES - 24 94 95 96 96 96 96 96 96 96 96 96 96 96 96 96	TOTAL C 17474 3 17474 3 17570 3 175	0022 0022	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
	AJS1.#1 Yeso IP 2	= 90 BDPO (January 2002	28 29 30 31

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I hereby certify that the information above is true and grade tank has been/will be constructed or closed according to	NMOCD guidelines 🔲, a general permit 🔲 or an :	(attached) siterustive OCD-approved plan
SIGNATURE Bridellon	TITLE ENGINEER	_DATE_ 03/15/05
Type or print name BRIAN COLLINS For State Use Only	E-mail address; engineering@m	arbob . com
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE



March 15, 2005

Bureau of Land Management 2909 W. 2nd St. Roswell, NM 88201

Attn: Mr. Armando Lopez

Re:

Downhole Commingling Application

AAO Federal #7, Unit G, Sec. 1-T18S-R27E

Eddy County, New Mexico

Dear Mr. Lopez:

Enclosed is a copy of the downhole commingling application submitted to the NMOCD for the captioned well.

Please contact me at 505-748-3303 if you have any questions.

Sincerely,

Brian Collins

Petroleum Engineer

BC/dlw enclosure

			TRANSACTION F	VET OILT	_	APR-26-2005 TU	UE 09:12 (
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RECE	EIVE							
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