Dist	<u>nct I</u>			
1625 N	Franch Drive,	Hobbe,	ЮМ	88240

District II

811 South First Street, Artesis, NM 88210

District III

1000 Kio Brazos Koad, Azter, NM 87410

District IV

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

State of New Mexico

Form C-107A Revised May 15, 2000

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

APPLICATION TYPE <u>X</u> Single Well Establish Pre-Approved Pools EXISTING WELLBORE <u>X</u> Yes <u>No</u>

APPLICATION FOR DOWNHOLE COMMINGLING

		D O DOX 007		0011 0007
MARBOB ENERGY C	ORPORATION	P O BOX 227	ARTESIA, NM	88211-0227
Operator		Address		
SB STATE	1	E-2-18S-27E		EDDY
Lease	Well No.	Unit Letter-Section-Township-Range		County •
OGRID No. <u>014049</u>	Property Code	API No. <u>30-015-32218</u>	Lease Type:	_Federal <u>X</u> StateFee
DATA ELEMEN	T UPPER	ZONE INTERMEI	DIATE ZONE	LOWER ZONE

Pool Name	RED LAKE Q-GB-SA		RED LAKE GLORIETA YESO A
Pool Code	51300		96836
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	EST. 1942'-2976'		EST. 3140'-3437'
Method of Production (Flowing or Antificial 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		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: Rates:	Date: N/A Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 71 % 68 %	Oil Gas % %	Oil Gas 29 % 32 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail?	Yes <u>X</u> Yes	No No
Are all produced fluids from all commingled zones compatible with each other?	Yes <u>X</u>	No
Will commingling decrease the value of production?	Yes	NoX
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?	Yes <u>X</u>	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		

vaditional statements, data of documents required to support comminging.

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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.	
Bottombole pressure data	

TITLE

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

ENGINEER

DATE 25 June 02

TELEDHONE NO (505 V 748-3303

•••)				
DISTRICT I P.O. Box 1980, Hobbs	. NM 86241-10	80		Inerg,			W Mexico Resources Depar	
DISTRICT II 2.0. Drawer DD, Arten DISTRICT III 1000 Rio Brazos R	OIL		P.0.	Box 2	ON DI 088 0 87504-			
DISTRICT IV P.O. BOX 2088, SANT	A FE, N.M. 87	504-2088	WELL LO	CATION	AND .	ACREA	GE DED	ICAT
API		Pool Code 6836		RI	ED LAKE;	GLO		
Property Code			Property Name SB STATE					
OGRID No. 14049			Operator Name MARBOB ENERGY CORPORATION					
					Surfa	ce Loca	ation	
UL or lot No. E	Section 2	Township 18-S	Range 27-E	Lot Idn	Feet fro	m the 650	North/Sout NO	h line RTH
		<u>.</u>	Bottom	Hole Lo	cation 1	f Diffe	rent From	n Su
UL or lot No.	Section	Township	Range	Lot Idn	Feet fro	om the	North/Sout	h line
Dedicated Acre	Joint o	r Infill Co	nsolidation	Code Or	der No.		I	
40 NO ALLO	WABLE W	TILL BE AS					INTIL ALL	

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

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DIVISION 7504-2088

DEDICATION PLAT □ AMENDED REPORT Pool Name LAKE; GLORIETA YESO, NORTHEAST Well Number 1 Elevation ORATION 3572' n

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
E	2	18-S	27-Е		1650	NORTH	330	WEST	EDDY	
Bottom Hole Logation If Different From Surface										

t From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	Joint o	1-611 0	onsolidation	Code Or	ler No.		<u> </u>		L
Dedicated Acres	JOINC O				161 110.		•		
40									
<u> </u>			COLONDO		COMPLETION I	ATT ATT THIS	DECTC IIII	TRN CONCOLID	

L ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

LOT 4	LOT 3	LOT 2	LOT 1	OPERATOR CERTIFICATION
1650'				I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.
39 <u>.59</u> AC	39. <u>53 AC</u>	39 <u>.44_AC</u>	39. <u>38 AC</u>	Signature DIANA J. CANNON Printed Name PRODUCTION ANALYST
		15 and 1	123466	Title
		318 25 26 27 25	1-3-40	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 supervisen, and that the same is true and correct to the best of my belief.
	 			Professional Surreyor
				Certificate No. RONAID 7. ETDSON 3239 CARY EDSON 12841

Engineering Summary Form C-107 A Application for Downhole Commingling

Marbob Energy Corporation MJ State No. 1 (Lot 4-Sec. 2-T18S-R27E) MJ State No. 2 (Unit D-Sec. 2-T18S-R27E) SB State No. 1 (Unit E-Sec. 2-T18S-R27E)

Marbob Energy proposes to downhole commingle the San Andres (Red L ake Q-GB-SA 51300) and the Yeso (Red Lake Glorieta Yeso, NE 96836) in the captioned wells. 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 these wells will be rod pumped in a pumped down condition. The MJ State No. 1 is currently completed in the Yeso and will be used as a "typical" Yeso well. The MJ State No. 2 is currently completed in the San Andres and 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.)

Q1yr	= 90 bopd = 14 bopd = 1.5 bopd	d=84%/yr. d=35%/yr assumed
EUR	= <u>-365 (90-1</u> In (184	<u>4)</u> + <u>-365 (14-1.5)</u> = 25.7 MBO) In (135)
Q1yr	= 140 mcfd = 22 mcfd = 5 mcfd	d=84%/yr. d=32%/yr. assumed
EUR	= <u>-365 (140-</u> In (184	$\frac{22)}{\ln(132)} + \frac{-365(22-5)}{\ln(132)} = 39.6 \text{ MMCF}$

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.)

= 145 bopd d=80%/yr. Qi Q1yr = 29 bopd d=24%/yr. = 1.5 bopd assumed Qel EUR = -365(145-29) + -365(29-1.5) = 62.9 MBOln (1-.24) In (1-.80) = 180 mcfd d=80%/yr. Qi d=20%/yr. Q1yr = 36 mcfdQel = 5 mcfd assumed EUR = <u>-365 (180-36)</u> + <u>-365 (36-5)</u> = 83.4 MMCF In (1-.80) ln (1-.20) = .29 = 29% Yeso Oil = 25.7 MBO 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%

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