is 2 Cauties To Ammonwista District	
it 3 Copies To Appropriate District State of New Mexico	Form C-103
<u>District I</u> Energy, Minerals and Natural Resources	
1625 N. French Dr., Hobbs, NM 88240	WELL API NO. 30-015-32071
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CONSERVATION DIVISION	
District III 1220 South St. Francis Dr.	5. Indicate Type of Lease STATE X FEE
1000 Rio Brazos Rd., Aztec, NM 87410	
District IV 1220 S. St. Francis Dr., Santa Fe, NM	6. State Oil & Gas Lease No.
87505	F-05461
SUNDRY NOTICES AND REPORTS ON WELLS	7. Lease Name or Unit Agreement Name:
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A	
DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	M J STATE
1. Town of Wells	
Oil Well A Gas Well Other	
2. Name of Operator	8. Well No.
MARBOB ENERGY CORPORATION	1
3. Address of Operator	9. Pool name or Wildcat
P O BOX 227, ARTESIA, NM 88211-0227	RED LAKE GLORIETA YESO NE
4. Well Location	
Unit Letter LOT 4: 330 feet from the NORTH line and	feet from the WEST line
Section 2 Township 18S Range 27E	NMPM EDDY County
10. Elevation (Show whether DR, RKB, RT, GR	, etc.)
3606' GR	Est est and a second and a second assets
11. Check Appropriate Box to Indicate Nature of Noti	
NOTICE OF INTENTION TO:	UBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON REMEDIAL W	ORK ALTERING CASING
TEMPORARILY ABANDON	DRILLING OPNS. PLUG AND
DUIL OF ALTER CASING TO MULTIPLE TO CASING TEST	ABANDONMENT
PULL OR ALTER CASING MULTIPLE CASING TEST COMPLETION CEMENT JOE	
OCIVIE LE FICIA	,
OTHER: DOWNHOLE COMMINGLING \(\textbf{X} \) OTHER:	
12. Describe proposed or completed operations. (Clearly state all pertinent details, and	d give pertinent dates, including estimated date of
starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach	
recompilation.	
SEE ATTACHED C-107 DOWNHOLE COMMINGLING APPLICATION	
0 117 /7	
division order# $R-11363$ pre-approved pool	
I hereby certify that the information above is true and complete to the best of my knowle	edge and belief
Thereby certify that the information above is true and complete to alle best of my known	
SIGNATURE / SILLE TITLE ENGINEER	DATE 9 July 02
Type or print name BRIAN COLLINS	Telephone No.505-748-3303
(This space for State use) / /	
Ologanal Signed By Itm W. Gum	DATE 1 0 2002
APPPROVED BY DISTRICT II SUPERVISOR TITLE	DATE DATE

District I

1625 N. Presch Drive, Hobbs, NM 88240

District II

811 South First Street, Artesia, NM 88210 District III

1000 Rio Brezos Road, Azter, NM 87410 District IV

1220 S. St. Prancis Dr., Smela Fe, NM 87505

State of New Mexico rgy, Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE X Single Well Establish Pre-Approved Pools EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

X Yes ___No

Form C-107A

Revised May 15, 2000

MARBOB ENERGY CORPOR	RATION / P O BOX	227 ARTESIA, NM 8	38211-0227
Operator Operator	Addre 1 LOT 4-2-18S-		EDDY
MJ STATE	Well No. Unit Letter-Se	County *	
OGRID No. 014049 Property	Code API No)15-32071 Lease Type:	Federal State Fee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	RED LAKE Q-GB-SA		RED LAKE GLORIETA YESO N
Pool Code	51300	AFG	96836
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	EST. 1969'-2899'	1234307897077	3137'-3670' ACTUAL
Method of Production (Flowing or Artificial Lift)	ARTIFICIAL LIFT	OCORECE/USE THE	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	ARTESIA E	EST. 100 PSI PRODUCTING BHP
Oil Gravity or Gas BTU (Degree API or Gas BTU)	38.5°		41.8°
Producing, Shut-In or New Zone	NEW ZONE		PRODUCING
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history.	Date:	Date:	Date: JUNE 2002
applicant shall be required to attach production estimates and supporting data.)	Rates:	Rates:	Rates: 30BOPD 95MCFD
Fixed Allocation Percentage (Note: If allocation is bused upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or explanation will be required.)	71 % 68 %	% %	29 % 32 %
	ADDITIO	DNAL DATA	
Are all working, royalty and overric If not, have all working, royalty and	ling royalty interests identical in all overriding royalty interest owners l	commingled zones? been notified by certified mail?	Yes X No
Are all produced fluids from all con	nmingled zones compatible with each	ch other?	YesX No
Will commingling decrease the value	ue of production?		YesNo_X
or the United States Bureau of Land	l Management been notified in writing	•	YesXNo
Production curve for each zone For zones with no production hi Data to support allocation meth Notification list of working, roy	ningled showing its spacing unit and for at least one year. (If not availab story, estimated production rates an	l acreage dedication. le, attach explanation.) d supporting data. for uncommon interest cases.	
IC		OVED POOLS	
List of other orders approving down List of all operators within the prop Proof that all operators within the p Bottomhole pressure data.	thole commingling within the propososed Pre-Approved Pools		/III be required:
		to the best of my knowledge and bel	ief.
SIGNATURE Print	Inllin TITLE	ENGINEER	DATE 25 June 02

P.G. Drawer DD, Artesia, NM 88211-0719

Form C-102 Revised February 10, 1994

State Lease - 4 Copies Fee Lease - 3 Copies

Submit to Appropriate District Office

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DIST	(RI	T	Ш	
1000	Rio	Bra	1200	1

DISTRICT II

Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87504-208	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code	Pool Name	
		RED LAKE; GLORIETA YES	O, NORTHEAST
Property Code	-	erty Name STATE	Well Number 1
OGRID No. 14049		ator Name GY CORPORATION	Elevation 3606

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	2	18-S	27-E		330	NORTH	330	WEST	EDDY

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
Dedicated Acres	Joint o	r Infill Co	nsolidation	Code Or	der No.				
40 . 73									

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

	UK A NON STANDA			
io LOT 4	LOT 3	LOT 2	LOT 1	OPERATOR CERTIFICATION
اسما	1			I hereby certify the the information
330'	1			contained herein is true and complete to the best of my knowledge and belief.
33	1 1		•	1//4 4 10 4() //4 10 70 70 70
40.73			39.38 AC	Signature Signature
39,89 AC	39. <u>53_AC</u>	39.44 AC	139.38 AC	DIANA J. CANNON
	GEODETIC COORDINATE SPC NME			Printed Name
	NAD 1927			PRODUCTION ANALYST
	Y=648350.4 X=523671.1		2345678970	Title
	LAT. 32'46'56.58"N		10)	OCTOBER 24, 2001
	LONG. 104"15"22.72"W	/ (9		
			0 PEO 200 15	SURVEYOR CERTIFICATION
		(8)	CD CETVED TO	I hereby certify that the well location shown
		1.7	TATESIA 5	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.
-	!			OCTOBER 15, 2001
			1	Date Surveyedmunum AWB
IL	.' '-		·	Professional Surveyor
	1		1	AO MEXICAN
				The state of the s
	1		1	Male Languary +6/17/01
				/ [6]: [7]: [7]: [7]: [7]: [7]: [7]: [7]: [7
	· · · · · · · · · · · · · · · · · · ·		•	Certains to No. RONALD & REDSON 3239 GARY RUSON 12641
				GARY BURGEN 12641
L				The state of the s

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.)

Qi = 90 bopd d=84%/yr.
Q1yr = 14 bopd d=35%/yr
Qel =
$$1.5$$
 bopd assumed

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

EUR =
$$\frac{-365 (140-22)}{\ln (1-.84)}$$
 + $\frac{-365 (22-5)}{\ln (1-.32)}$ = 39.6 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.)

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 =
$$25.7 \text{ MBO} = .29 = 29\%$$

25.7 + 62.9