121810.0	.
Submit 3 Copies To Appropriate District 617 18 192 State of New Mexico	Form C-103
/ N ⁿ Energy Monerals and Natural Resources	Revised March 25, 1999
District I 1625 N. French Dr., Hobbs, NM 88240 District II	WELL API NO.
District II 1301 W. Grand Ave., Artesia, 12 1882 10 CONSERVATION DIVISION	30-015-32231
District III	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, No 87410	STATE FEE 6. State Oil & Gas Lease No.
District IV 1220 S. St. Francis Dr., Santa Fe, My	
87505	B-7244
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	TDF State
PROPOSALS.)	ibr beace
1. Type of Well:	
Oil Well 🔯 Gas Well 🗌 Other	8. Well No.
2. Name of Operator	8. Well NO.
Marbob Energy Corporation 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	1400 Bone 049 200 400 10
Unit Letter <u>F</u> : <u>1960</u> feet from the <u>North</u> line and <u>1</u>	650feet from the <u>West</u> line
Section 2 Township 18S Range 27E	NMPM County Eddy
Section 2 Township 18S Range 2 / E 10. Elevation (Show whether DR, RKB, RT, GR,	
3561 ¹	
11. Check Appropriate Box to Indicate Nature of Notice	e, Report or Other Data
	BSEQUENT REPORT OF:
TEMPORARILY ABANDON CHANGE PLANS COMMENCE D	
PULL OR ALTER CASING I MULTIPLE I CASING TEST	
COMPLETION CEMENT JOB	—
OTHER: Diametrical in a Ry OTHER:	
oment pownitore commingring	
12. Describe proposed or completed operations. (Clearly state all pertinent details, and starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach	give pertinent dates, including estimated date of wellbore diagram of proposed completion or
recompilation.	wenoore diagram of proposed completion of
See attached C-107A Application for Downhole Commingling	
Division order #R-11363 Pre-approved pools	

I hereby certify that the	ne information above is true and co	omplete to the b	best of my knowledge and belief.	
SIGNATURE	1 Emi Callini	TITLE	Engineer	DATE 20 Jan 03
Type or print name	Brian Collins			Felephone No. 505-748-3303
(This space for State) APPPROVED BY Conditions of approve	al, if any:	TITLE	District Sequin	DATE JAN 2 4 2004

District I 1025 N. French Drive, Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, New Mexico 87505

APPLICATION FOR DOWNHOLE COMMINGLING

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

Marbob Energy Corporat	ion /	P. O. Box 227, Artesia, NM	88210-0227
Operator		Address	
TDF State 1		F-2-18S-27E	Eddy County
Lease	Well No.	Unit Letter-Section-Township-Range	County

OGRID No. 014049 Property Code 29595 API No. 30-015-32231 Lease Type: Federal X State Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	Name Red Lake Q-GB-SA		Red Lake Glorieta Yeso NE		
Pool Code	51300		96836		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2021-2948' perforate	3162023222 J	3210-3516' perforated		
Method of Production (Flowing or Artificial Lift)	Artificial Lift	10 1	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	OCD - ARTESIA	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		Producing		
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: 1/15/03 Rates: 21 bopd 40 mcfpd		
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_X 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	<u>No X</u>
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: R-11363 Pre-approved Pool		

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-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. Bottomhole pressure data.

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

SIGNATURE	1 him Collin	TITLE	Engineer	

DATE 20 Jan 03

TYPE OR PRINT NAME Brian Collins

_TELEPHONE NO. (<u>505</u>)<u>748–3303</u>

x.					5	State of	New	Mexico				
DISTRICT I P.O. Box 1980, Eobbe,	NM 88241-19	80						esources Department		_ Submit	Fo Revised Februa to Appropriate Dis	rm C-102 ry 10, 1994 strict Office
DISTRICT II P.O. Drawer DD, Artesi	- NM 88211-	-0719	OIL	СС	N S	SERVA P.O. Bo		ON DIVISI	ION	1	State Lease	
DISTRICT III 1000 Rio Brazos Rd				Sant	a Fe			o 87504-2088				
DISTRICT IV		N	VELL LO	CATI	ION	AND AC	REA	GE DEDICATIO	ON I	PLAT	D AMENDE	D REPORT
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OGRID No.						Operator	Nam				Elevation 3561	
14049			N	IARE	OR			ORPORATION			5561	
				Lot		Surface Feet from		North/South line	Fee	t from the	East/West line	County
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		1	Bottom	Hole	Lo	cation If I	Diffe	rent From Sur	face			
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39 <u>.59</u> AC	.50	39.53 39.53 39.53 39.53 REC OCD -	122 23 23					39. <u>38 AC</u>		contained Aerest best of my know Signature DIANA . Printed Nam PRODUC' Title MARCH Date SURVEY I hereby certiy on this plat SURVEY I hereby certiy on this plat supervison, a correct to the FEBR Date Survey Signature & Protessiona	TION ANALYS' 5, 2002 OR CERTIFICA by that the well loca was plotted from file made by me or mat that the same i he best of my belt UARY 14, 20 (education DScal of Surveyors) ME	ete to the
	·									Certificate 1	No. RONALO I. EID GARY EIDSON	SON 3239 12641

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Engineering Summary Form C-107A Application for Downhole Commingling

Marbob Energy Corporation TDF State No. 1 (Unit F, Sec. 2-T18S-R27E) AAO Federal No. 1 (Lot 4, Sec. 1-T18S-R27E) AAO Federal No. 2 (Lot 3, 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 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.)

	= 90 bopd = 14 bopd = 1.5 bopd	d=84%/yr. d=35%/yr. assumed
EUR	= <u>-365 (90-14)</u> In (184)	+ <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 (140-22)</u> In (184)	+ <u>-365 (22-5)</u> = 39.6 MMCF In (132)

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. assumed = 1.5 bopd Qel EUR = <u>-365 (145-29)</u> + <u>-365 (29-1.5)</u> = 62.9 MBO In (1-.80) In (1-.24) d=80%/yr. = 180 mcfd Qi d=20%/yr. Q1yr = 36 mcfd Qel = 5 mcfdassumed EUR = <u>-365 (180-36)</u> + <u>-365 (36-5)</u> = 83.4 MMCF In (1-.80) In (1-.20) = .29 = 29% Yeso Oil = <u>25.7 MBO</u> 25.7 + 62.9 = .71 = 71% San Andres Oil = 1-.29 Yeso Gas = 39.6 MMCF = .32 = 32% 39.6 + 83.4 San Andres Gas = 1-.32 = .68 = 68%

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