## **RECEIVED**

District I

State of New Mexico FEB 1 6 2005 Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

District II

99BIARTERIA

District III
1000 Rio Brazos Road,

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

APPLICATION TYPE \_\_\_\_X\_\_Single Well Establish Pre-Approved Pools EXISTING WELLBORE \_\_\_\_\_Yes\_\_\_\_No

**District IV** 

APPLICATION FOR DOWNHOLE COMMINGLING

220 S. St. Francis Dr., Santa Fc, NM 8/303							
MARBOB ENERGY CORPORA	TION PO BOX	227 ARTES	SIA, NM 88211-0227				
Operator EDSEL'S WAND WAVER FE	Addı E #1 E-6-24S-2		COUNTY, NM				
Lease Well No. Unit Letter-Section-Township-Range County							
OGRID No. 14049 Property Cod	de 32426 API No. 30-0	15-32818 Lease Type:	_FederalState X Fee				
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE				
Pool Name	LOVING SE ATOKA		BLACK RIVER MORROW				
Pool Code	80705		72170				
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	11463-11467' PERF		12244-12256' PERF				
Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING				
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. 1000 PSI PRODUCING BHP		PRODUCING BHP				
Oil Gravity or Gas BTU (Degree API or Gas BTU)	N/A		N/A				
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	Date: N/A	Date:	Date: FEBRUARY 2005				
estimates and supporting data.)	Rates: N/A	Rates:	Rates: EST. 130 MCFD				
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas				
than current or past production, supporting data or explanation will be required.)	86 % 86 %	% %	14 % 14 %				
ADDITIONAL DATA							
Are all working, royalty and overriding If not, have all working, royalty and over			Yes No Yes No				
Are all produced fluids from all commit	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, 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 X No							
NMOCD Reference Case No. applicabl	e to this well:		<del></del>				
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							
		e following additional information wi	ll be required:				
List of other orders approving downhole List of all operators within the proposed Proof that all operators within the propo Bottomhole pressure data.	Pre-Approved Pools						
I hereby certify that the information		he best of my knowledge and belie	of.				
SIGNATURE Smile	INCLU_TITLE_F	ENGINEER	DATE 02/15/05				
TYPE OR PRINT NAME <u>BRIA</u>	N COLLINS	TELEPHONE NO. (50	5 ) 748-3303				
E-MAIL ADDRESS enginee	ring@marbob.com						

## DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980

#### State of New Mexico

Energy, Kinerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Jesse - 4 Contes

State Lease - 4 Copies Fee Lease - 3 Copies

#### DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

#### OIL CONSERVATION DIVISION

P.O. Box 2088

DISTRICT IV P.O. BOX 2088, SANTA FE, N.M. 87604-2088 Santa Fe, New Mexico 87504-2088
WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	UNDES. LOVING Pool Name	
30-015-32818	00105	BLACK RIVER; ATO	KA SE
Property Code	Pro	perty Name	Well Number
32426	EDSEL'S W	1	
OGRID No.	· · · · · · · · · · · · · · · · · · ·	erator Name	Elevation
14049	MARBOB ENE	RGY CORPORATION	3096'

#### Surface Location

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
5	6	24-S	28-E		1650'	NORTH	660'	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 Ore	der No.				
319.66			····						

## 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

·	OR A NON-STAN	DARD UNIT HAS BEE	N APPROVED BY	THE DIVISION
LOT 4	LOT 3	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.
9099.17				Signature Sanon
660,—0 6		.		DIANA J. CANNON Printed Name
600, 3093.1,		.		PRODUCTION ANALYST
		1		SEPTEMBER 9, 2004
LOT 5	·	·		SURVEYOR CERTIFICATION
LOT 6		GEODETIC COORDINATES  NAD 27 NME  Y = 454570.5 N  X = 561972.0 E  LAT. 32'14'58.46"N  LONG. 104'07'58.35"W		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 supervison and that the some is true and correct to the best of my belief.
		 		May 29, 2003  Date Surveyed A.W.E.  Signature & Seal of
LOT 7	! 			Professional Surveyor
		!		(Kanala Koulan 5130/03
				Certificate No. RONALD J EIDSON 3239 1264
· · · · · · · · · · · · · · · · · · ·				3. W. W. Williams

# **Engineering Summary Form C-107A**

## Application for Downhole Commingling Marbob Energy Corporation Edsel's Wand Waver Fee No. 1 (E-6-24S-28E)

Marbob Energy proposes to downhole commingle the Morrow and Atoka zones. No crossflow will occur because a frac plug acting as a check valve will be placed between the Morrow and Atoka.

The attached decline curve contains the calculations of the Morrow gas reserves (remaining ultimate recovery = 37 MMCF gas). The Atoka reserves are estimated to be 227 MMCF derived by taking the average EUR of two nearby Atoka wells (decline curves attached).

The proposed allocation follows. These zones don't produce significant amounts of oil/condensate, therefore the allocation for oil will be the same as the gas allocation.

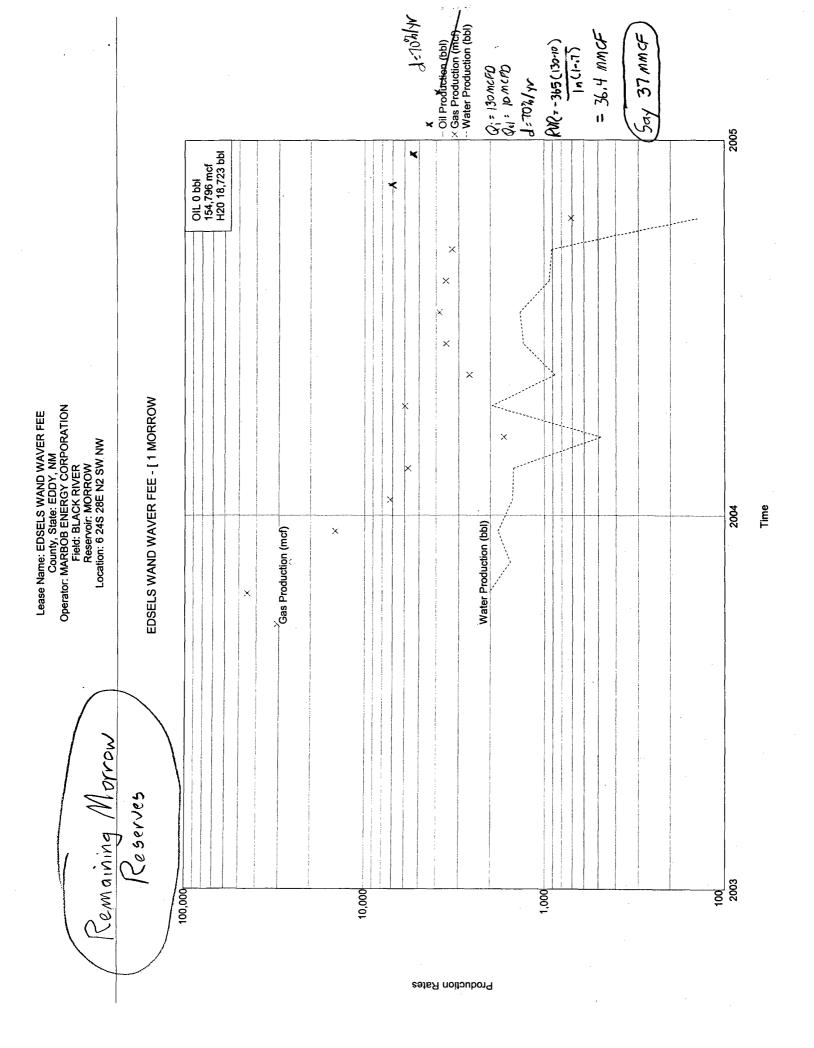
Morrow Gas/Oil

37 MMCF = 14%

37+227 MMCF

Atoka Gas/Oil

100-14 = 86%



EDDY NM
EDSELS WAND WAVER FEE 1
MARBOB ENERGY CORPORATION
ACTIVE

# **Detailed Production Report**

Lease Name: Lease Number: Operator Name: State: County: Field: Sec Twn Rng: Latitude/Longitude: Regulatory #: API: Production ID: Reservoir Name: Prod Zone: Prod Zone Code: Basin Name: Gas Gatherer: Liquid Gatherer:	EDSELS WAND  MARBOB ENERGY NEW MEXICO EDDY BLACK RIVER 6 24S 28E  30015328180000 230022015328187217 MORROW MORROW 402MRRW PERMIAN BASIN	CORPORATIO	Cum Oil:	ction Date: ction Date: ource: Date: ction: oration: oration:	1 154,796 18,723 SEP 2 OCT 2 N2 SW SEP 10	2004 NW
Status:	ACTIVE	GAS	JOK.			
Annual Production Year BB	Oil Gas LS MCF	Water BBLS				
Beginning Cum: 2003 2004 Totals:	116,707 38,089	7,754 10,969		·		<b></b>
	154,796	18,723				
Monthly Production			·			
Date O MO/YR BB	Oil Gas LS MCF	Water BBLS	Cond Yld BBLS/MCF	% Water	# of Wells	Days on
SEP 2003 OCT 2003 NOV 2003 DEC 2003 Totals:	30,632 44,945 26,604 14,526	2,352 2,049 1,548 1,805			1 1 1 1	21 31 25 30
JAN 2004 FEB 2004	7,198 5,758	1,505 1,485	1 of 2		1 1	31 29

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MAR 2004	1,675	484	1	13
APR 2004	5,984	1,960	1	23
MAY 2004	2,622	875	1	14
JUN 2004	3,519	1,307	1	30
JUL 2004	3,830	1,364	1	28
AUG 2004	3,530	939	1	31
SEP 2004	3,265	909	1	30
OCT 2004	708	141	1	5
Totals:				
2004	38,089	10,969		
AUG 2004 SEP 2004 OCT 2004 Totals:	3,530 3,265 708	939 909 141	1 1 1 1	3

Nov 7073 Dec 5378 Jan 4382 Feb 130 MCFD Lease Name: LOVING 36 STATE
County, State: EDDY, NM
Operator: EOG RESOURCES INCORPORATED
Field: LOVING SOUTHEAST
Reservoir: ATOKA
Location: 36 23S 27E SE SW Nearby Atoka Well #

LOVING 36 STATE - [ 1 ATOKA

 Oil Production (bbl)
 X Gas Production (mcf)
 Water Production (bbl) 1994 OIL 662 bbi 302,084 mcf H20 14,560 bbi Oil Production (bbl) × × 1992 × 302 MMCF X 1990 1) × × EVR Average of these two Atota mells: MMCF ××× × × 302+152 1988 N × × nearby 1986 Water Production (bbl) Gas Production (mcf) X X 100,000 10,000 1,000 <u>6</u> 9

Production Rates

Time

Lease Name: STATE MS GAS COM
County, State: EDDY, NM
Operator: MEWBOURNE OIL COMPANY
Field: LOVING SOUTHEAST
Reservoir: ATOKA
Location: 12 24S 27E NE NW Vearby Atoka Well

STATE MS GAS COM - [ 1 ATOKA

- Oil Production (bbl)

× Gas Production (mcf)

- Water Production (bbl) 2005 \$0 ≥ ≥ C OIL 1,291 bbi 101,896 mcf H20 1,486 bbi 50.3 MMCF 0 × = 152. 2003 ×  $RM \approx -365 (15-5 \text{ mag})$ 101.9 + 50.3 In (1-,07) X EUR~ × × × ×× ×× <u>|×</u> 1997 Water Production (bbl) ×  $\times$ 1995 1993 Oil Production (bbl) Gas Production (mcf) 1991 × 10,000 1,000 8

Production Rates

Time

Submit 3 Copies To Appropriate District	State of New Mexico	Form C-103
Office District I Energy, I	Minerals and Natural Resources	May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO.
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CC	NSERVATION DIVISION	30-015-32818
District III 122	20 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87505	STATE FEE KX  6. State Oil & Gas Lease No.
<u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM	341144 1 0, 1 1111 0 7 3 0 3	·
87505		FEE
SUNDRY NOTICES AND REP		7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL O DIFFERENT RESERVOIR. USE "APPLICATION FOR PERM	EDGELIG HAND HANDD DED	
PROPOSALS.)	EDSEL'S WAND WAVER FEE	
1. Type of Well: Oil Well Gas Well X	Other	8. Well Number 1
2. Name of Operator  MARBOB ENERGY (	9. OGRID Number 14049	
3. Address of Operator P O BOX 227	10. Pool name or Wildcat	
ARTESIA, NM 883	BLACK RIVER MORROW	
4. Well Location	11-0227	BLACK KIVER HORKOW
	from the NORTH line and	660 feet from the WEST line
	nship 24S Range 28E	NMPM EDDY County NM
	(Show whether DR, RKB, RT, GR, etc.	
11. Elevation	3096 GR	
Pit or Below-grade Tank Application or Closure		
Pit typeDepth to GroundwaterDistanc	e from nearest fresh water well Di	stance from nearest surface water
Pit Liner Thickness: mil Below-Grade	Tank: Volume bbis; C	Construction Material
12 Check Appropriate Bo	ox to Indicate Nature of Notice,	Penart or Other Date
12. Check Appropriate Bo	in indicate Nature of Notice,	, Report of Other Data
NOTICE OF INTENTION TO	D: SUE	SSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND AE		
TEMPORARILY ABANDON   CHANGE PLA	NS 🗌 COMMENCE DR	RILLING OPNS. P AND A
PULL OR ALTER CASING  MULTIPLE CO	MPL CASING/CEMEN	IT JOB
POINTIOLE GONOLINGIE		_
OTHER: DOWNHOLE COMMINGLE	OTHER:	
13. Describe proposed or completed operations.		ttach wellbore diagram of proposed completion
or recompletion.	1103. 101 Muniple Completions. 11	taten wenoore diagram of proposed completion
SEE ATTACHED C-107A APPLICATION	FOR DOWNHOLE COMMINGLI	NG .
obb mimonab o rover mibromitor	TOR BOWNIELD COMMINGEL	
THE PROPOSED ALLOCATION IS: BI	ACK RIVER MORROW 72170 -	- OIL 14% - GAS 14%
· · · · · · · · · · · · · · · · · · ·	VING SOUTHEAST ATOKA 80	
NEW ALLOCATIONS WILL BE SUBMITT	ED IF ACTUAL WELL PRODUC	CTION IS SIGNIFICANTLY DIFFERENT
THAN THAT ABOVE.		
T		
I nereby certify that the information above is true and		e and belief. I further certify that any nit or helow-
arade tank has been/will be constructed or closed according to I	complete to the best of my knowledg	on an (attached) alternative OCD annual alex [
grade tank has been/will be constructed or closed according to I	complete to the best of my knowledg NMOCD guidelines [], a general permit []	or an (attached) alternative OCD-approved plan .
grade tank has been/will be constructed or closed according to N SIGNATURE	complete to the best of my knowledg NMOCD guidelines [], a general permit []  TITLE ENGINEER	or an (attached) alternative OCD-approved plan .  DATE 02/15/05
grade tank has been/will be constructed or closed according to N	NMOCD guidelines [], a general permit [] TITLE ENGINEER	or an (attached) alternative OCD-approved plan  DATE 02/15/05
grade tank has been/will be constructed or closed according to N SIGNATURE  Type or print name BRIAN COLLINS	NMOCD guidelines [], a general permit [] TITLE ENGINEER	or an (attached) alternative OCD-approved plan  DATE 02/15/05
grade tank has been/will be constructed or closed according to P SIGNATURE  2	NMOCD guidelines [], a general permit [] TITLE ENGINEER	or an (attached) alternative OCD-approved plan .
grade tank has been/will be constructed or closed according to N SIGNATURE  Type or print name BRIAN COLLINS For State Use Only	NMOCD guidelines [], a general permit []  TITLE ENGINEER  E-mail address: engineering	or an (attached) alternative OCD-approved plan  DATE 02/15/05  @marbob.com Telephone No.505-748-3303
grade tank has been/will be constructed or closed according to N SIGNATURE  Type or print name BRIAN COLLINS	NMOCD guidelines [], a general permit [] TITLE ENGINEER	or an (attached) alternative OCD-approved plan  DATE 02/15/05



marbob energy corporation

February 15, 2005

Bureau of Land Management 2909 W. 2<sup>nd</sup> St. Roswell, NM 88201

Attn: Mr. Armando Lopez

Re: Downhole Commingling Application

Edsel's Wand Waver Fee #1 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

ulla

BC/dlw enclosure