District I 1625 N. Freder Drive, Norths, No. 20240

State of New Mexico Energy, Minerals and Natural Resources Department Form C-107A Revised June 10, 2003

District II 13cH W. Grand Avenue, Artista, NM 88310

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

APPLICATION TYPE __X_Single Well Establish Pre-Approved Pools EXISTING WELLBORE __X__Yes____No

District III HERD Ray Houses Read, Actors, NM 87410 District IV 1220 S. St. Francis Dr., Name Pe, NM H7SUS

APPLICATION FOR DOWNHOLE COMMINGLING

ARBOB ENERGY CORPORATON	Р О ВОХ	227 ARTES	IA, NM 88211-0227	
Operator	Add P-29-T218-	lross BOKE ENDY	COUNTY	
ITTLE FEDERAL #1		Section-Township-Range	County	
OGRID No. 14049 Property Cod	de 34633 API No. 30-	015-33960 Lease Type: _X	Federal State Fee	
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE	
Pool Name	HAPPY VALLEY ATOKA		HAPPY VALLEY MORROW	
Pool Code	78055	·	78060	
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10619-10890' PERF'D		11013-11270' PERF'D	
Method of Production (Flowing or Artificial Lift)	FLOW		FLOW	
Bottominole Pressure (None: Pressure data will not be required if the bottom perforation in the lower sone is within 150% of the depth of the top perforation in the upper zone)	EST. 4720 PSI BHP	JAN 3 1 2006	EST. 4440 PSI BHP	
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1050	WESTERN-UUU	1050	
Producing, Shut-In or New Zone	PRODUCING		PRODUCING	
Date and Oil/Gas/Water Rates of Last Production. (Nose: For new zones with no production history, applicant shall be required to smach production esumates and supporting data)	Date: 11/23/05 Rates: 530 MCFD	Date:	Date: 11/11/05 Rates: 30 MCFD	
Fixed Allocation Percentage	Oil Gas	Oil Gas	Oil Gas	
(Note: If elicention is based upon something other than current or past production, supporting data or explanation will be required.)	95 % 95 %	% %	5 % 5 %	
Are all working, royalty and overriding f not, have all working, royalty and over front, have all working, royalty and over all produced fluids from all comming. Will commingling decrease the value of f this well is on, or communitized with, or the United States Bureau of Land Ma. NMOCD Reference Case No. applicable attachments: C-102 for each zone to be commingly Production curve for each zone for a For zones with no production history Data to support allocation method or Notification list of working, royalty Any additional statements, data or defined.	rriding royalty interest owners been gled zones compatible with each of production? state or federal lands, has either the nagement been notified in writing to to this well: ded showing its spacing unit and act least one year. (If not available, y, estimated production rates and set formula. and overriding royalty interests for occurrents required to support compared to support co	n notified by certified mail? other? ce Commissioner of Public Lands of this application? reage dedication. attach explanation.) upporting data.	Yes X No Yes No No Yes X No X Yes X No X Yes X No X	
If application is t	o establish Pre-Approved Pools, th	c following additional information wil	ll be required:	
ist of other orders approving downhole ist of all operators within the proposed roof that all operators within the proposed ottomhole pressure data.	Pre-Approved Pools			
hereby certify that the information	above is true and complete to the	he best of my knowledge and belie	ef.	
IGNATURE Some	ellen TITLE	ENGINEER	DATE 01/11/06	
YPE OR PRINT NAME BRIAN	COLLINS	TELEPHONE NO. (_50	5 748-3303	
-MAIL ADDRESS engineer:	ing@marbob.com		1/11/06- 1/copy 40 Cent coff to Berr orig +1 copy 51	
			22 مىسىمانلىدىم	

Engineering Summary Form C-107A Application for Downhole Commingling

Marbob Energy Corporation Little Federal No. 1 (Unit P, Sec. 29-T21S-R26E)

Marbob Energy proposes to downhole commingle the Morrow (Happy Valley Morrow 78060) and Atoka (Happy Valley Atoka 78055) in the captioned well. The Morrow was fracture treated and only tested approximately 30 MCFD (10 psig, 12/64" ck). The Atoka was acidized and tested approximately 530 MCFD (680 psig, 12/64" ck). Both zones tested sweet gas with same BTU content. The proposed zonal allocation is shown below.

<u>Morrow</u>	Best engineering estimate is that zonal reserves will approximate post treatment well tests.				
	30 MCFD 30+530 MCFD	=5.4%	Say 5% Gas and Oil		
<u>Atoka</u>	105	=.95	Say 95% Gas and Oil		

State of New Mexico

DISTRICT I

Rosery, Mineralo and Satural Resources Department

DISTRICT II

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Sevised JUNE 10, 2008
Submit to Appropriate District Office
State Lease - 4 Copies
Pee Lease - 3 Copies

DISTRICT III

80 E. ST. FRANCES	Number	NK 87506		Pool Code		GE DEDICATION	Pool Name	D AMENDI	SU KEPO
API	MINDER		78060 HAPPY VALLEY; MORROW						
Property	Code		Property Name LITTLE ROUNDY ROUND FEDERAL				Well Number		
0CRID N 14049	٥.		Operator Name MARBOB ENERGY CORPORATION				21evatio 3274		
					Surface Loc	ation			
UL or lot No.	Section	Township	Range	Lot ldn	Pest from the	North/South line	Feet from the	East/West line	County
16	29	21-5	26-E		555	SOUTH	1017	EAST	EDDY

Bottom Hole Location II 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 or Infill Consolidation Code Order No. 324.34

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

LOT 4	LOT 3 GEODETIC COO NAD 27	LOT 2 RDINATES F	ECEIVE	OPERATOR CERTIFICATION
{{		-	IAN 3 1 2006	I hereby certify the the information contained herein is true and complete to the
	Y=525639 X=507507	.5 14	UAN 3 I ZUUD	best of my knowledge and belief.
	λ=30/30/	V	ju-wa i e e in	
1	LAT.=32°26°4. LONG.=104°18°			Man Starley
40.67 AC	40.52 AC	32.39 W 39.77 AC	39.69 AC	Signature
LOT 5	LOT 6	LOT 7	LOT B	Melanie J. Parker
	1	The second second second		Printed Name
1				Land Department
{{				Title
11			1	January 5, 2005
] [. Dete
40.75 AG	40.70 AC	39.88 AC	39,80 AC	SURVEYOR CERTIFICATION
Lot 12	LOT 11	" LOT 10 "	LOT 9	I hereby certify that the well location shown
∤			(on this plat was plotted from field notes of
}		I	•	supervison, and that the more in true and
1		1	}	correct to the best of my belief.
		•		DECEMBER 16, 2004
40.90 AC	40.97 AC	40.21 AC	39.98 AC	December 75, 2004 Date Surveyedonning JR Signature McSeaf 18 Child
LOT 13	LOT 14	LOT 15	LOT 16	Signa turo te (Seaf 165 114)
			40.09 AC	
;		3279.	.5' 3274.2°	O W WEY
			600	Bank & Dom 12/23/04
		Į. J	8	Q4.17.1725
1			•	
1	Ì	3271.	7 10 TOO 4	Certificate No. GARY EDSOR 12841
49.90 AC	40.97 AC	40.32 AC , 32/1	3' 1 3268.4'	The state of the s
			the test of the second	2017 Carl 1000 Carl

Submit 3 Copies To Appropriate District Office Energy Mi	Form C-103 May 27, 2004		
<u>District I</u> Energy, Minerals and Natural Resources 1625 N. French Dr., Hobbs, NM 88240		WELL API NO.	
District II 1301 W. Grand Ave., Artesia, NM 88210 OIL CON	SERVATION DIVISION	30-015-33960	
District III 1220	South St. Francis Dr.	5. Indicate Type of Lease STATE FEE	
1000 Rio Brazos Rd., Aztec, NM 87410 District IV Sa	nta Fe, NM 87505	6. State Oil & Gas Lease No.	
1220 S. St. Francis Dr., Santa Fe, NM 87505	,		
SUNDRY NOTICES AND REPORT		7. Lease Name or Unit Agreement Name	
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT PROPOSALS.)	(FORM C-101) FOR SUCH	LITTLE FEDERAL	
1. Type of Well: Oil Well Gas Well A Ot	her RECEIVED	8. Well Number 1	
2. Name of Operator MARBOB ENERGY CORPO		9. OGRID Number 14049	
3. Address of Operator P O BOX 227	CUL: AFTE BE	10. Pool name or Wildcat	
	1-0227	HAPPY VALLEY	
4. Well Location			
		feet from the EAST line	
	hip 21S Range 26E	NMPM EDDY County NM	
11. Elevation (S	how whether DR, RKB, RT, GR, etc., 3274		
Pit or Below-grade Tank Application ☐ or Closure ☐	32/4		
Pit typeDepth to GroundwaterDistance to	rom nearest fresh water well Dist	ance from nearest surface water	
Pit Liner Thickness: mil Below-Grade Ta	nk: Volume bbls; Co	nstruction Material	
12. Check Appropriate Box	to Indicate Nature of Notice,	Report or Other Data	
·		•	
NOTICE OF INTENTION TO		SEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐ PLUG AND ABA TEMPORARILY ABANDON ☐ CHANGE PLAN.	—		
PULL OR ALTER CASING MULTIPLE COM	t	-	
TOLL ON METER ONOMO	o de la constantina		
OTHER: DOWNHOLE COMMINGLING			
 Describe proposed or completed operations. (of starting any proposed work). SEE RULE 1 or recompletion. 	Clearly state all pertinent details, and 103. For Multiple Completions: At	I give pertinent dates, including estimated date tach wellbore diagram of proposed completion	
SEE ATTACHED C-107A APPLICATION F	OR DOWNHOLE COMMINGLING		
WIE PROPOSED ALLOCATION TO MARK	7 114 1 PW WORDOW 70060	OTT 50 010 50	
THE PROPOSED ALLOCATION IS: HAPP	Y VALLEY MURROW 78055 -		
narr	VALLET ATOKA 78033 -	OIL 93% - GAS 93%	
NEW ALLOCATIONS WILL BE SUBMITTED DIFFERENT THAN THAT ABOVE.	IF ACTUAL WELL PRODUCT	ION IS SIGNIFICANTLY	
I hereby certify that the information above is true and cograde tank has been/will be constructed or closed according to NI	omplete to the best of my knowledge 4OCD guidelines , a general permit	and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .	
SIGNATURE Juni Calla.	TITLE ENGINEER	DATE 01/11/06	
Type or print name BRIAN COLLINS	E-mail address:	Telephone No. 505-748-3303	
For State Use Only	engineering@	marbob.com	
APPROVED BY:	TITI E	DATE	
APPROVED BY: Conditions of Approval (if any):	IIILL	DATE	

e e



RECEIVED

JAN 3 1 2006

OCU-ARTESI

January 11, 2006

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

Attn: Mr. Armando Lopez

Re: Downhole Commingling Application

Little Federal #1, Unit P, Sec. 29-T21S-R26E

Eddy County, New Mexico

Julle .

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

JAN 215 2006

ORIG. SGD.) ALEXIS C. SWOBONA

PETROLEUM CHERRER