Print or Type Name

Signature

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST

THS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE **App licition Acronyms:** [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] TYPE OF APPLICATION - Check Those Which Apply for [A] [1] Location - Spacing Unit - Simultaneous Dedication □ NSL □ NSP □ SD Check One Only for [B] or [C] [B]Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM [C]Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX □ PMX □ SWD □ IPI □ EOR □ PPR [D] Other: Specify_ NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [2] Working, Royalty or Overriding Royalty Interest Owners [A] Offset Operators, Leaseholders or Surface Owner [B][C]Application is One Which Requires Published Legal Notice [D]Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] For all of the above, Proof of Notification or Publication is Attached, and/or, [F] Waivers are Attached [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE. **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division. Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

e-mail	Addrese

Date

Title

District I 1625 N. French Dr

State of New Mexico

Form C-107A

Energy, Minerals and Natural Resources Department FEB 2 2 2007 vised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Road, Aztec, NM 87410 Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE
Oil Conservation Division Single Well
1220 S. St. Enablish Prevapproved Pools

District IV

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

		~~~~~~~~~
APPLICATION	FOR DOWNHOLE	COMMINGLING-

Santa Fe, NMXISTING WELLBORE Yes No

MARBOB ENERGY CORPORAT	ION PO	BOX 227 (1) AR	FESIA, NM 88211-0227		
Operator	Add		The state of the s		
LITTLE FEDERAL #1	P-29-T21S	-R26E EDI	DY COUNTY		
Lease		Section-Township-Range	County		
OGRID No. 14049 Property Co	de 34633 API No. 30 <b>–</b> 0	15-33960 Lease Type: <u>X</u>	FederalStateFee		
DATA ELEMENT	Heeling HUS	intermediate zone 7 % 70	LOWER ZONE		
Pool Name	Undes Canyon on 11	Happy Valley Strawn	Happy Valley Morrow &		
Pool Name 11970	Oracs Carry Oligan	ALOKA &	P Valley Mollow &		
Pool Code	9/239	78055	78060		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	9546-9726' Perf	9888-10132' Perf 10619-10890' Perf	11013-11270' Perf		
Method of Production (Flowing or Artificial Lift)	Flow	Flow Flow	Flow		
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)	N/A	N/A N/A	N/A		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1050	1050 1050	1050		
Producing, Shut-In or New Zone	Producing	Producing Producing	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: 2/08/07	02/07/07 (Strn) Date: 02/07/07 (Atka)	Date: 02/07		
estimates and supporting data.)	Rates:100 MCFD	Rates: 35 MCFD (Strn) 100 MCFD (Atka)	Rates:5 MCFD estimated		
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.)	42 % 42 %	14 % 14 % 42 % 42 %	2 % 2 %		
	ADDITION	NAL DATA			
Are all working, royalty and overriding If not, have all working, royalty and over			Yes X No No No No		
Are all produced fluids from all commingled zones compatible with each other?  Yes X No					
Will commingling decrease the value of production?  Yes NoY					
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. applicable	e to this well:				
Attachments:  C-102 for each zone to be comming Production curve for each zone for a For zones with no production history Data to support allocation method on Notification list of working, royalty Any additional statements, data or described to the comments.	at least one year. (If not available, y, estimated production rates and sur formula. and overriding royalty interests for	attach explanation.) upporting data. r uncommon interest cases.			
	PRE-APPRO	VED POOLS			
If application is	o establish Pre-Approved Pools, th	e following additional information wil	l 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.					
16 111		$\mathcal{A}^{(n)}(G_{\mathcal{F}_{n}}) = \mathcal{A}^{(n)}(G_{\mathcal{F}_{n}})$			
SIGNATURE / him Millier	TITLE Petroleum Engineer	DATE 02/19/07			
TYPE OR PRINT NAME Brian Collins	TELEPHONE NO. (	505 ) 748–3303			
E-MAIL ADDRESS engineering@marbob.co	, om	· ·			
	* · · · · · · · · · · · · · · · · · · ·				

#### State of New Mexico

DISTRICT I 1625 N. PERNCE DR., BORRE, NO. 66840

Energy, Minerals and Habural Resources Department

DISTRICT II

DISTRICT III 1000 Rio Brazos Rd., Axtoc. NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
For Lease - 3 Copies

ISTRICT IV	l, sakta pr.	NE 67565	WELL LO	CATIO	N AND ACRI	EAGE DEDICATION	ON PLAT	D AMENDI	ED REPO
API N	Vumber			Pool Code			Pool Name		
			78	060			EY; MORROW	···	
Property Co	ode		LI	TTLE	Property N ROUNDY RO	UND FEDERAL		Well Number	
OGRID No.					Operator N			Elevation	
14049		ĺ	M	IARBO	B ENERGY	CORPORATION		3274'	
					Surface Lo	cation			
UL or lot No.	Section	Township	Range	Lot idn	Feet from the	North/South line	Peet from the	East/West line	Count
16	29	21-5	26-E		555	SOUTH	1017	EAST	EDD
			Bottom	Hole L	ocation If Dif	ferent From Sur	face		L
UL or lot No.	Section	Township	Range	iot Idn	Feet from the	North/South line	Feet from the	East/West line	Count
					1				
Dedicated Acres	loint e	or lafill Co	nsolidation .	Code	Order No.			<u> </u>	·
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		OR A N	ION-STAN	DARD I	JNIT HAS BEE	N APPROVED BY	THE DIVISION		
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, LOT 12	1	າເບ	1 11	ł	LOT 10	IOT 6			
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# 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), Atoka (Happy Valley Atoka 78055), Strawn (Happy Valley Strawn NE 78075) and Canyon (Undesignated) in the captioned well. The best engineering estimate is that zonal reserves will approximate post treatment well tests.

Morrow

The Morrow wasn't individually tested on recent workover. The best engineering estimate is that the 95% Atoka/5% Morrow ratio submitted on the original DHC application still applies. The Atoka recently tested approximately 100 MCFD (120 psi on 12/64" choke), therefore, the Morrow production is estimated to be 5 MCFD.

Atoka The Atoka was tested during a recent workover at approximately 100 MCFD (120 psi on 12/64" choke).

Strawn The Strawn was tested during a recent workover at approximately 35 MCFD (90 psi on 1/8" choke).

Canyon The Canyon was tested during a recent workover at approximately 100 MCFD (120 psi on 12/64" choke).

The proposed zonal allocation follows below. The best engineering estimate is that each zone will produce condensate in the same ratio as gas.

Morrow
 5 MCFD rate
 5 
$$5+100+35+100$$
 = .02 = 2%

 Atoka
 100 MCFD rate
  $\frac{100}{5+100+35+100}$ 
 = .42 = 42%

 Strawn
 35 MCFD rate
  $\frac{35}{5+100+35+100}$ 
 = .14 = 14%

 Canyon
 100 MCFD rate
  $\frac{100}{5+100+35+100}$ 
 = .42 = 42%

Submit 3 Copies To Appropriate District Office Ene	State of New Mexico rgy, Minerals and Natural Resources	Form C-103 May 27, 2004
1625 N. French Dr., Hobbs, NM 88240		WELL API NO. 30-015-33960
1301 W. Grand Ave., Artesia, NM 88210 OII District III	CONSERVATION DIVISION 1220 South St. Francis Dr.	5. Indicate Type of Lease
1000 Rio Brazos Rd., Aztec, NM 87410 District IV	Santa Fe, NM 87505	STATE FEE 6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM 87505		
SUNDRY NOTICES AND (DO NOT USE THIS FORM FOR PROPOSALS TO DI DIFFERENT RESERVOIR. USE "APPLICATION FOI PROPOSALS.)	7. Lease Name or Unit Agreement Name LITTLE FEDERAL	
1. Type of Well: Oil Well Gas Well	8. Well Number 1	
2. Name of Operator MARBOB ENERG	GY CORPORATION	9. OGRID Number 14049
3. Address of Operator P O BOX 227	00011 0007	10. Pool name or Wildcat
ARTESIA, NM 4. Well Location	88211-0227	HAPPY VALLEY
Unit Letter P : 555	feet from the SOUTH line and	1017 feet from the EAST line
Section 29	Township 21S Range 26E	NMPM EDDY County NM
11. Elev	ration (Show whether DR, RKB, RT, GR, etc. 3274' GR	
Pit or Below-grade Tank Application or Closure	3274 GR	
	Distance from nearest fresh water wellDi	
		onstruction Material
12. Check Appropris	ate Box to Indicate Nature of Notice	Report or Other Data
NOTICE OF INTENTICE PERFORM REMEDIAL WORK PLUG AT TEMPORARILY ABANDON CHANG MULTIP	ND ABANDON   REMEDIAL WORE E PLANS   COMMENCE DR	RILLING OPNS. P AND A
OTHER: DOWNHOLE COMMINGLING	₹ OTHER:	; –
13. Describe proposed or completed opera	ations. (Clearly state all pertinent details, a	nd give pertinent dates, including estimated date ttach wellbore diagram of proposed completion
SEE ATTACHED C-107A APPLICAT	ION FOR DOWNHOLE COMMINGLING	). 
THE PROPOSED ALLOCATION IS:	HAPPY VALLEY MORROW 78060 - 0	OIL 2% - GAS 2%
	HAPPY VALLEY ATOKA 78055 - 0 HAPPY VALLEY STRAWN NE 78075 UNDESIGNATED CANYON - 01L 425	- OIL 14% - GAS 14%
		•
		i
		:
I hereby certify that the information above is to grade tank has been/will be constructed or closed accor	rue and complete to the best of my knowled	ge and belief. I further certify that any pit or below- or an (attached) alternative OCD-approved plan .
SIGNATURE Peniller	TITLE PETROLEUM ENG	
Type or print name BRIAN COLLINS For State Use Only	E-mail address: engineering@ma	Telephone No. 505-748-3303
APPROVED BY: Conditions of Approval (if any):	TITLE	DATE