District I 1625 N. French Drive

District II 1301 W. Grand Aven

District III

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

Month - Year APR 1 6 2007 OCD - ARTESIA, NM

State of New Mexico Energy, Minerals and Natural Resources Departme

Oil Conservation Division

APPLICATION FOR DOWNHOLE COMMINGLING

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

Form C-107A Revised June 10, 2003

APPLICATION TYPE

Establish Pre-Approved Pools
EXISTING WELLBORE
X Yes No

MARBOB ENERGY	CORPORATION	P O BOX 227	ARTESIA, NM	88211-0027
Operator		Address		
HACKBERRY 33	FEDERAL COM #1	E-33-T21S-R26E	EDDY COUNTY	
Lease	Well No.	Unit Letter-Section-Township-Ra	nge	County
OGRID No. 14049	Property Code 35782	API No. 30-015-34937	Lease Type: X Federal	_StateFee

DATA ELEMENT	UPPER 2	CONE	INTE	RMEDIA	TE ZON	E	1	LOWER	ZONE	
Pool Name	HAPPY VALLE	Y STRAWN	НАРРУ	VALLEY	ATOKA	\	HAPPY	VALL	EY MOR	ROW
Pool Code	78075		78055				78060)		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	9832-10013	PERF'D	10319-	10586	PERF'I)	10932	2-1104	O PERF	' D
Method of Production (Flowing or Artificial Lift)	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)	EST 500 PSI BHP	FLOWING	EST 50 BHP	0 PSI	FLOWIN	īG	EST 5	00 PS	I FLOW	ING
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1050		1050				1050			
Producing, Shut-In or New Zone	NEW ZONE		NEW ZO	NE			PRODU	CING		
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:	N/A			Date:	03/25 50 MC		
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.)	50 %	50 %	25	%	25	%	25	%	25	%

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
Are all produced fluids from all commingled zones compatible with each other?	Yes_X	No
Will commingling decrease the value of 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. applicable to this well:		
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

Bottomhole pressure data.	ovided notice of this application.	
I hereby certify that the information above is true and complete to		
SIGNATURE / Indless TITLE	ENGINEERDATE_	04/12/07
TYPE OR PRINT NAME BRIAN COLLINS	TELEPHONE NO. (505)	748-3303
E-MAIL ADDRESS engineering@marbob.com		

Month - Year APR 1 6 2007 OCD - ARTESIA, NM

Engineering Summary Form C-107A Application for Downhole Commingling

Marbob Energy Corporation
Hackberry 33 Federal Com No. 1 (Unit E, Sec. 33-T21S-R26E)

Marbob Energy proposes to downhole commingle the Morrow (Happy Valley Morrow 78060), Atoka (Happy Valley Atoka 78055) and Strawn (Happy Valley Strawn 78075) in the captioned well. The Morrow was fracture treated and currently produces approximately 50 MCFD to sales. The best engineering estimate is that the Atoka will produce 50 MCFD and the Strawn will produce 100 MCFD and that all zones will decline at the same rate. The proposed zonal allocation is shown below.

Morrow

Best engineering estimate is that zonal reserves will approximate the best engineering estimate of individual zone flow rates and that any condensate produced will be proportional to gas production.

New allocations will be submitted if actual well production is significantly different than that above.

Energy. Minerals and Natural Resources Department

State of New Mexico

Month - Year APR 1 6 2007 OCD - ARTESIA, NM

DISTRICT I 1625 N. PRINCE DR.,

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM BERLO

DISTRICT III 1000 Rio Brasos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised October 12, 2006 Submit to Appropriate District Office State Lease - 4 Copies Fee Loase - 3 Copies

DISTRICT IV	WELL LOCATION AND	ACREAGE DEDICATION PLAT	□ AMENDED REPORT
API Number	Pool Code	Pool Code Pool Name	
	78060	HAPPY VALLEY;	Morrow
Property Code	Prope	Well Number	
	HACKBERRY 33	1	
OGRID No.		itor Name	Elevation
14049	MARBOB ENER	GY CORPORATION	3249'

Township Feet from the North/South line Section Range Lot Ida Feet from the Bast/West line UL or lot No. County Ε 33 21-S 26-E 2280 **NORTH** WEST 360 **EDDY** Bottom Hole Location If Different From Surface

Surface Location

ſ	UL or lot No.	Section	Townshi	l p	Range	Lot idn	Feet from the	North/South line	Peet from the	East/West line	County
l	E	33	21-	·s	26-E		1980	North	990	West	Eddy
ſ	Dedicated Acres	Joint o	r infil)	Cor	solidation (Code Or	der No.				
	320		1								

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 OPERATOR CERTIFICATION 3244. 600 I hereby certify that the information I berely certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the lead including the proposed beltam hole location or has a right to drill this wall at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a computerly pooling order harviofers entered by the division. 0 3251.9 3246. 1980 WW4/13/06 **♦**BHI, Nancy T. Bratcher 990' GEODETIC DRDINATES Printed Name NME NAD EE DETAIL SURVEYOR CERTIFICATION Y=522 1.6 N X=504.8 I hereby certify that the wall location shown on this plot was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 4.42" N LAT. = 32°2 17.14" W LONG. = 104 MARCH 21,2006 DSR Date Surveyed Signature & Seal of Professional Surveyor 06.11.0525 Certificate No. GARY EIDSON 12641