Submit 3 Copies To Appropriate Office		State of New				Form C-103
District 1	_	y, Minerals and N	Natural Resources	WELL API N	10	May 27, 2004
1625 N. French Dr., Hobbs, NM District II		COMPRESSOR		30-015-33		
1301 W. Grand Ave., Artesia, NI	11 00210	CONSERVATI		5. Indicate T		-
<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM	I 874 10	1220 South St. I		STAT	E 🗌 FI	EE 👿
District IV 1220 S. St. Francis Dr., Santa Fe	, NM	Santa Fe, NN	18/303	6. State Oil &	& Gas Lease N	0.
87505 SINDR	RY NOTICES AND I	PEDODTS ON WE	110	7 Lease Non	ne or Unit Agr	reement Name
(DO NOT USE THIS FORM FO DIFFERENT RESERVOIR. US PROPOSALS.)	R PROPOSALS TO DRI	LL OR TO DEEPEN OI	R PLUG BACK TO A	RUTHIE FE	E	eement Name
1. Type of Well: Oil Wel	I Gas Well	X Other	-550=0	8. Well Num	ber 1	
2. Name of Operator	ARBOB ENERGY C	ORPORATION	RECEIVED.	9. OGRID N 14049	umber	
3. Address of Operator	P O BOX 228		JAN 2 0 7006	10. Pool nam	e or Wildcat	
	ARTESIA, NM	88211-0228	UUU-MATER!	CARLSBAD;	MORROW,	SOUTH
4. Well Location	1006					
Unit Letter M		feet from the SO			t from the	ESTline
Section 10		Township 22S		NMPM ED	DY County	NM
	11. Elevat	ion <i>(Show whether</i> 3080 °G	DR, RKB, RT, GR, e	tc.)		
Pit or Below-grade Tank Applic	ation or Closure		<u> </u>			
	GroundwaterDi	stance from nearest fr	esh water well I	Distance from nearest	surface water	
Pit Liner Thickness:	mil Below-G	rade Tank: Volume	bbls;	Construction Materi	al	
12 (Check Appropriate	e Box to Indicat	e Nature of Notice	e Report or Ot	her Data	
	•••			c, report of Ot	ner Data	
	OF INTENTION		t .	BSEQUENT		
PERFORM REMEDIAL W		D ABANDON	REMEDIAL WO			IG CASING 🗆
TEMPORARILY ABANDOI PULL OR ALTER CASING		_	i	RILLING OPNS.	=	
PULL OR ALTER CASING		COMPL []	CASING/CEME	NT JOB	J	
	COMMINGLING	X	OTHER:			
13. Describe proposed						
of starting any prop or recompletion.	oosed work). SEE R	ULE 1103. For Mu	Itiple Completions:	Attach wellbore d	iagram of prop	osed completion
SEE ATTACHED C-1	107A APPLICATI	ON FOR DOWNH	OLE COMMINGLIN	īG		
THE PROPOSED ALI	OCATION IS.	CADICRAD COII	TH MORROW 7396	O OTT 29	CAC 29	
THE PROPUSED ALL			ATOKA 85900 -			
				011 77% 0	7778	
NEW ALLOCATIONS THAN THAT ABOVE.		TTED IF ACTU	AL WELL PRODUC	CTION IS SIG	NIFICANTL	Y DIFFERENT
						
grade tank has been/will be consti	rmation above is true	and complete to th	e best of my knowled	lge and belief. I fo	irther certify tha	t any pit or below-
grade tank has been/will be const	ruced or closed according	g to NMOCD guidelin	es 🔲, a general permit [lge and belief. I fu or an (attached) al	ternative OCD-a	pproved plan 🔲.
grade tank has been/will be constructed.	rmation above is true	g to NMOCD guidelin	es , a general permit [lge and belief. I fi or an (attached) al	ternative OCD-a	t any pit or below- pproved plan []. 01/19/06
grade tank has been/will be constructed.	raged or closed according	g to NMOCD guidelin	es □, a general permit [ENGINEER	lge and belief. Ifa □ or an (attached) al	DATE_	pproved plan □. 01/19/06
grade tank has been/will be constructed and tank has been/will be constructed. SIGNATURE Type or print name BRIAN	raged or closed according	g to NMOCD guidelin	es , a general permit [ENGINEER l address:	or an (attached) al	DATE	pproved plan 🔲.
grade tank has been/will be constructed.	raged or closed according	g to NMOCD guidelin TITLE E-mai	es , a general permit [ENGINEER l address: engineerin	or an (attached) al	DATE	pproved plan □. 01/19/06
grade tank has been/will be constructed as SIGNATURE Type or print name BRIAN	COLLINS	g to NMOCD guidelin TITLE E-mai	es , a general permit [ENGINEER l address:	or an (attached) al	DATE	pproved plan □. 01/19/06

District I

625 N. French Dr., Hobbs, NM 88240
District II

1301 W. Grand Ave., Artesia, NM 88210
District III

1000 Rio Brazos Rd., Aztec, NM 87410
District IV

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

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

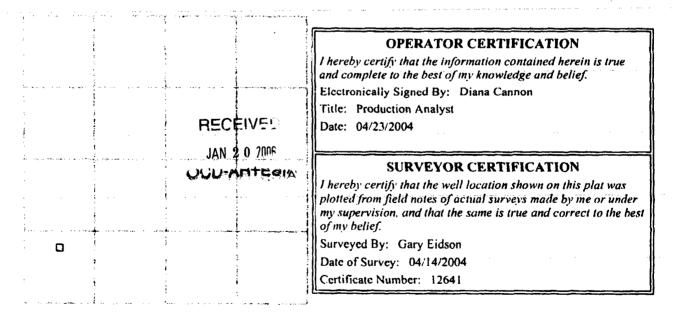
Form C-102 Permit 880

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-33403	Pool Name . CARLSBAD;MORROW, SOUTH (PRO GAS)	Pool Code 73960
Property Code 33875	Property Name RUTHIE FEE	Well No. 001
OGRID No. 14049	Operator Name MARBOB ENERGY CORP	Elevation 3080

Surface And Bottom Hole Location

UL or Lot	Section 10	Township 22S	Range 27E	Lot Jdn M	Feet From 1026	N/S Line	Feet From	E/W Line	County Eddy
Dedicated Acres Joint 320		Joint o	า โทที))	Consolidation Code		Order No.			



Engineering Summary Form C-107A

Application for Downhole Commingling Marbob Energy Corporation Ruthie Fee No. (M-10-22S-27E)

Marbob Energy proposes to downhole commingle the Morrow and Atoka zones. No crossflow will occur because this well will be produced into a low pressure pipeline at maximum drawdown and because each zone is separated by a composite frac plug, which acts as a check valve by preventing downward flow.

The Morrow and Atoka reserves are calculated as follows:

Morrow: The best engineering estimate is that the Morrow will decline at an exponential decline of 50%/yr.

Atoka: The best engineering estimate is that Atoka will decline at 95%/yr the first year and 75%/yr thereafter.

Qi = 1400 MCFD
Q1yr = 70 MCFD
Qel = 5 MCFD
RUR =
$$\frac{-365 (1400-70)}{\ln (1-.95)}$$
 $\Rightarrow \frac{-365 (70-5)}{\ln (1-.75)}$ = 162,047 MCF + 17,114 MCF
= 179.161 MCF

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

Atoka Gas/Oil 100-3 = 97%

District 1 1625 N. French Drive, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised June 10, 2003

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 #7505

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

APPLICATION FOR DOWNHOLE COMMINGLING

MARBOB ENERGY CORPORAT	ION P O BOX		ESIA, NM 88211-0027		
Operator RUTHIE FEE #1	M-10-22S-		EDDY COUNTY, NM		
.ease		ection-Township-Range	County		
OGRID No. 14049 Property Coo	tie 33875 API No. 30-01	15-33403 Lease Type:	Federal State X Fee		
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	TANSILL DAM ATOKA		CARLSBAD SOUTH MORRO		
Pool Code	85900		73960		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10924-11060'		11224-11587'		
Method of Production (Flowing or Antificial Lift)	FLOWING	RECEIVED	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 500 PSI PRODUCING BHP	JAN 2 0 2006 OCU-ARTESIA	EST 500 PSI PRODUCING BHP		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	N/A		N/A		
Producing, Shut-In or New Zone	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: JAN 18, 2006	Date:	Date: JAN 16, 2006		
estimates and supporting data.)	Rates: EST 1400 MCFD	Rates:	Rates: EST 15 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.)	97 % 97 %	% %	3 % %		
	ADDITION	NAL DATA			
Are all working, royalty and overriding If not, have all working, royalty and ov	royalty interests identical in all cor	mmingled zones?	Yes X No No No		
Are all produced fluids from all commi		•	Yes X No		
Will commingling decrease the value o	f production?		YesNo_X		
If this well is on, or communitized with or the United States Bureau of Land M	anagement been notified in writing		Yes_XNo		
NMOCD Reference Case No. applicab	le to this well:	RE-AFFROVED FOOL	<u>. </u>		
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histo Data to support allocation method (Notification list of working, royalty Any additional statements, data or	at least one year. (If not available, ry, estimated production rates and s or formula. y and overriding royalty interests fo	attach explanation.) supporting data. r uncommon interest cases.			
	PRE-APPRO	OVED POOLS			
If application is	to establish Pre-Approved Pools, the	he following additional information w	vill be required:		
List of other orders approving downho List of all operators within the propose Proof that all operators within the prop Bottomhole pressure data.	d Pre-Approved Pools				
I hereby certify that the information	n above is true and complete to	the best of my knowledge and bel	ief.		
SIGNATURE Buil	ullu TITLE	ENGINEER	DATE 01/19/06		
TYPE OR PRINT NAME BRIA	N COLLINS	TELEPHONE NO. (_	505 748-3303		
E-MAIL ADDRESS engin	eering@marbob.com				