

DATE IN 2-9-05	SUSPENSE	ENGINEER Jones	LOGGED IN 2-10-05	TYPE DHC	APP NO. PSEM0504129025
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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

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application 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]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[A] 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 _____

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☐ Does Not Apply

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[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.

[4] **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.

Print or Type Name

Signature

Title

Date

e-mail Address

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

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 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

Form C-107A
Revised June 10, 2003

Oil Conservation Division

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

FEB 09 2005

APPLICATION TYPE

OIL CONSERVATION ☒ Single Well
DIVISION Establish Pre-Approved Pools
EXISTING WELLBORE

APPLICATION FOR DOWNHOLE COMMINGLING

☒ Yes ☐ No

DAC-3399

MARBOB ENERGY CORPORATION P. O. BOX 227 ARTESIA, NM 88211-0227

Operator Address
MILKY WAY FEE #2 D-9-22S-27E EDDY COUNTY, NM

Lease Well No. Unit Letter-Section-Township-Range County

OGRID No. 14049 Property Code 29890 API No. 30-015-33150 Lease Type: ☐ Federal ☐ State ☒ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	CARLSBAD STRAWN	TANSILL DAM ATOKA	CARLSBAD SOUTH MORROW
Pool Code	74040	85900	73960
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	10136-10247' PERF	10648-10951' PERF	11136-11141' PERF
Method of Production (Flowing or Artificial Lift)	FLOWING	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. 500 PSI PRODUCING BHP	EST. 500 PSI PRODUCING BHP	EST. 500 PSI PRODUCING BHP
Oil Gravity or Gas BTU (Degree API or Gas BTU)	N/A	N/A	N/A
Producing, Shut-In or New Zone	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 estimates and supporting data.)	Date: FEBRUARY 2, 2005 Rates: EST. 130 MCFD	Date: JANUARY 28, 2005 Rates: EST. 100 MCFD	Date: OCTOBER 1, 2004 Rates: EST. 10 MCFD
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 19 % 19 %	Oil Gas 76 % 76 %	Oil Gas 5 % 5 %

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes ☒ No ☐
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes ☐ No ☐

Are all produced fluids from all commingled zones compatible with each other? Yes ☒ No ☐

Will commingling decrease the value of production? Yes ☐ No ☒

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 ☒ 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
- 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.

SIGNATURE Brian Collins TITLE ENGINEER DATE 02/04/05

TYPE OR PRINT NAME BRIAN COLLINS TELEPHONE NO. (505) 748-3303

E-MAIL ADDRESS engineering@marbob.com

District I

1625 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-33150	Pool Name CARLSBAD;MORROW, SOUTH (PRO GAS)	Pool Code 73960
Property Code 29890	Property Name MILKY WAY FEE	Well No. 002
OGRID No. 14049	Operator Name MARBOB ENERGY CORP	Elevation 3150

Surface And Bottom Hole Location

UL or Lot D	Section 9	Township 22S	Range 27E	Lot Idn D	Feet From 660	N/S Line N	Feet From 660	E/W Line W	County Eddy
Dedicated Acres 320		Joint or Infill		Consolidation Code		Order No.			

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Electronically Signed By: Diana Cannon

Title: Production Analyst

Date: 12/18/2003

SURVEYOR CERTIFICATION

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 supervision, and that the same is true and correct to the best of my belief.

Surveyed By: Ronald Eidson

Date of Survey: 12/18/2003

Certificate Number: 3239

Engineering Summary
Form C-107A
Application for Downhole Commingling
Marbob Energy Corporation
Milky Way Fee No. 2 (D-9-22S-27E)

Marbob Energy proposes to downhole commingle the Morrow, Atoka and Strawn zones. No crossflow will occur because this well will be produced into a low pressure pipeline at maximum drawdown.

The Morrow, Atoka and Strawn reserves are calculated as follows:

Morrow:

$Q_i = 10$ MCFD (best engineering estimate)

$Q_{el} = 5$ MCFD

Decline = 50%/year (best engineering estimate)

Reserves = $\frac{365 (5-10)}{\ln (1-.50)} = 2633$ MCF (3 MMCF) gas

Strawn:

$Q_i = 30$ MCFD

$Q_{el} = 5$ MCFD

Decline = 50%/year (best engineering estimate)

Reserves = $\frac{365 (5-30)}{\ln (1-.5)} = 13,165$ MCF (13 MMCF) gas

Atoka:

$Q_i = 100$ MCFD

$Q_{el} = 5$ MCFD

Decline = 50%/year (best engineering estimate)

Reserves = $\frac{365 (5-100)}{\ln (1-.5)} = 50,025$ MCF (50 MMCF) gas

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

$$\text{Morrow Gas/Oil} \quad \frac{3 \text{ MMCF}}{3+50+13 \text{ MMCF}} = 5\%$$

$$\text{Atoka Gas/Oil} \quad \frac{50 \text{ MMCF}}{3+50+13 \text{ MMCF}} = 76\%$$

$$\text{Strawn Gas/Oil} \quad 100-5-76 = 19\%$$

Submit 3 Copies To Appropriate District Office
District I
1625 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

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-33150
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name MILKY WAY FEE
8. Well Number 2
9. OGRID Number 14049
10. Pool name or Wildcat CARLSBAD SOUTH MORROW
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3150'
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>
Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____
Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐

2. Name of Operator
MARBOB ENERGY CORPORATION

3. Address of Operator
P. O. BOX 227
ARTESIA, NM 88211-0227

4. Well Location
Unit Letter D : 660 feet from the NORTH line and 660 feet from the WEST line
Section 9 Township 22S Range 27E NMPM EDDY County NM

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
PLUG AND ABANDON <input type="checkbox"/>	P AND A <input type="checkbox"/>
CHANGE PLANS <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
MULTIPLE COMPL <input type="checkbox"/>	OTHER: <input type="checkbox"/>
OTHER: DOWNHOLE COMMINGLING <input checked="" type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

SEE ATTACHED C-107A APPLICATION FOR DOWNHOLE COMMINGLING

THE PROPOSED ALLOCATION IS: CARLSBAD SOUTH MORROW 73960 - OIL 5% - GAS 5%
TANSILL DAM ATOKA 85900 - OIL 76% - GAS 76%
CARLSBAD STRAWN 74040 - OIL 19% - GAS 19%

NEW ALLOCATIONS WILL BE SUBMITTED IF ACTUAL WELL PRODUCTION IS SIGNIFICANTLY DIFFERENT THAN THAT ABOVE

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Brian Collins TITLE ENGINEER DATE 02/04/05

Type or print name BRIAN COLLINS E-mail address: engineering@marbob.com Telephone No. 505-748-3303
For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____
Conditions of Approval (if any): _____