

DATE <u>5/8/03</u>	SUSPENSE <u>NA</u>	ENGINEER <u>DC</u>	LOGGED IN <u>KW</u>	TYPE <u>DHC</u>	REF NO <u>AKRV03/2845851</u>
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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



3150

## 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]**

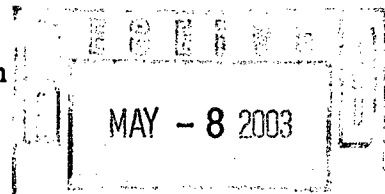
[A] Location - Spacing Unit - Simultaneous Dedication  
☐ NSL ☐ NSP ☐ SD

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.**

Ken M. Calvert  
 Print or Type Name

K. M. Calvert  
 Signature

Engineering Manager  
 Title

5/7/03  
 Date

\_\_\_\_\_  
 e-mail Address

**MEWBOURNE OIL COMPANY**

**P.O. BOX 7698  
TYLER, TEXAS 75711  
903 - 561-2900  
FAX 903 - 561-1870**

May 7, 2003

UPS NEXT DAY AIR #N452 609 507 2

Mr. David Catanach  
New Mexico Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

**RECEIVED**  
MAY 8 2003  
Oil Conservation Division

RE: Form C-107A  
Rocky 16 State #1  
Sec 16 T16S R35E  
Lea; Mississippian (Gas) and Shoe Bar; Atoka (Gas) Pools  
Lea Co., NM

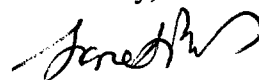
Dear Mr. Catanach:

Please find enclosed the following for the application to downhole commingle production from the Mississippian and the Atoka zones in the referenced well:

Form C-107A  
Attachments information  
Form C-102 for both zones  
Administrative Application Checklist

Enclosed for your convenience is a copy of Form C-101, containing details of the proposed Shoe Bar; Atoka recompletion, which is to be filed today with the NMOCD office in Hobbs. A copy of Form C-107A is being mailed today to the New Mexico State Land Office in Santa Fe. If you need further information, please call me at (903) 561-2900.

Yours truly,



Janet Burns  
Reg. Tech.

cc: NMOCD - Hobbs  
New Mexico State Land Office - Santa Fe, NM  
Hobbs  
Midland  
Allen Brinson  
Wayne Jones  
Don Russell

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

District II  
811 South First Street, Artesia, NM 88210

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised May 15, 2000

OIL CONSERVATION DIVISION

2040 South Pacheco  
Santa Fe, New Mexico 87505

APPLICATION TYPE

☒ Single Well

☐ Establish Pre-Approved Pools

EXISTING WELLBORE

☒ Yes ☐ No

APPLICATION FOR DOWNHOLE COMMINGLING

Mewbourne Oil Company P. O. Box 7698 Tyler, TX 75711  
Operator Address  
Rocky 16 State #1 M-Sec. 16, T16S, R35E Lea  
Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No. 14744 Property Code 31995 API No. 30-025-36165 Lease Type: ☐ Federal ☒ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Shoe Bar; Atoka		Lea; Mississippian
Pool Code			
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	12,388 - 12,396'		12,786 - 12,798'
Method of Production (Flowing or Artificial Lift)	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)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)			
Producing, Shut-In or New Zone	New Zone		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: Estimated rate: Rates: 500 MCFD, 3 BO 1 BW	Date: Rates:	Date: 5/5/03 Rates: 300 MCFD, 1BO, 1 BW
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 75 % 63 %	Oil Gas % %	Oil Gas 25 % 37 %

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  TITLE Reg. Tech. DATE 5/7/03  
TYPE OR PRINT NAME Janet Burns TELEPHONE NO. (903 ) 561-2900

## **Attachments to C-107A**

Mewbourne Oil Company  
Rocky 16 State #1  
Unit Letter M, Sec 16 T16S R35E  
Lea; Mississippian (Gas) and Shoe Bar; Atoka (Gas) Pools  
Lea Co., NM

**C-102 for each zone to be commingled showing its spacing unit and acreage dedication**

**Production curve is not attached** (new well)

**Estimated production rates and supporting data**

Test Data:

Mississippian	5/5/03	300 MCFD, 1 BO, 1 BW: current production
Atoka		500 MCFD, 3 BO, 1 BW: estimated initial production

**Data to support allocation method or formula**

Test as shown above for both zones

**Notification list of working, royalty and overriding royalty interests for uncommon interest cases**

No uncommon interests.

**Any additional statements, data or documents required to support commingling**

The well is completed with 5 1/2" OD casing. In order to dually complete the well to recover all economic reserves, the use of small diameter special clearance tubing would be required. Performing a dual completion as described could not be economically justified for a zone with limited deliverability. To produce the Atoka interval (upper zone) up the annulus (5 1/2" - 2 7/8") is not recommended due to liquid loading and insufficient velocity to lift produced fluids with the estimated gas rates listed above. The addition of the Atoka as a commingled zone will prevent waste that would not otherwise be possible due to the increased cost to produce each individual zone. Commingling will prevent early abandonment of each production zone.

DISTRICT II  
811 South First, Artesia, NM 88210

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

Oil, Gas, and Natural Resources Department

Revised March 17, 1999  
Instruction on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

# OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-36165</b>	Pool Code <b>86400</b>	Pool Name <b>Shoe Bar; Atoka</b>
Property Code <b>31995</b>	Property Name <b>ROCKY "16" State</b>	Well Number <b>1</b>
OGRID No. <b>1A7A4</b>	Operator Name <b>MEWBOURNE OIL COMPANY</b>	Elevation <b>4017</b>

### Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>M</b>	<b>16</b>	<b>16S</b>	<b>35E</b>		<b>660</b>	<b>SOUTH</b>	<b>990</b>	<b>WEST</b>	<b>LEA</b>

### Bottom Hole Location If 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.
<b>320</b>			

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

	<b>OPERATOR CERTIFICATION</b>  I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.   Signature <b>Janet Burns</b> Printed Name <b>Reg. Tech.</b> Title <b>5/6/03</b> Date
<b>A-1320</b>  <b>N.32°55'00.4\"/&gt;</b>	<b>SURVEYOR CERTIFICATION</b>  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.  <b>2/12/2003</b> Date Surveyed  Signature of Professional Surveyor <b>3640</b> Certificate No. Herschel Jones RLS 3640 PROFESSIONAL SURVEYOR GENERAL SURVEYING COMPANY

0 330' 660' 990' 1650' 1980' 2310' 2310' 1980' 1650' 990' 660' 330' 0'

DISTRICT II  
811 South First, Artesia, NM 88210

Instruction on back  
Submit to Appropriate District Office

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT IV  
2040 South Pacheco, Santa Fe, NM 87505

## OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number <b>30-025-36165</b>	Pool Code <b>86400</b>	Pool Name <b>Townsend Morrow</b>
Property Code <b>31995</b>	Property Name <b>ROCKY "16" State</b>	Well Number <b>1</b>
OGRID No. <b>14744</b>	Operator Name <b>MEWBOURNE OIL COMPANY</b>	Elevation <b>4017</b>

## Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	16S	35E		660	SOUTH	990	WEST	LEA

## Bottom Hole Location If 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.						
320									

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

	<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p>Signature <u><i>N.M. Young</i></u></p> <p>Printed Name <u>N.M. Young</u></p> <p>Title <u>Dst. Manager</u></p> <p>Date <u>02/19/03</u></p>	
	<p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>Date Surveyed <u>2/12/2003</u></p> <p>Signature &amp; Seal of Professional Surveyor <u><i>[Signature]</i></u></p> <p>Professional Surveyor No. <u>3640</u></p> <p>General Surveying Company <u>PROFESSIONAL SURVEYING COMPANY</u></p>	

0 330' 660' 990' 1650' 1980' 2310' 2310' 1980' 1650' 990' 660' 330' 0'

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State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

Form C-101  
Revised March 17, 1999

Submit to appropriate District Office  
State Lease - 6 Copies  
Fee Lease - 5 Copies

☐ AMENDED REPORT

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address Mewbourne Oil Company P. O. Box 7698 Tyler, TX 75711		<sup>2</sup> OGRID Number 14744
		<sup>3</sup> API Number 30 - 025-36165
<sup>4</sup> Property Code 31995	<sup>5</sup> Property Name Rocky 16 State	<sup>6</sup> Well No. 1

**Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	16	16S	35E		660	S	990	W	Lea

**Proposed Bottom Hole Location If 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

<sup>7</sup> Proposed Pool 1 Shoe Bar; Atoka	<sup>8</sup> Proposed Pool 2
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<sup>9</sup> Work Type Code P	<sup>10</sup> Well Type Code G	<sup>11</sup> Cable/Rotary R	<sup>12</sup> Lease Type Code S	<sup>13</sup> Ground Level Elevation 4017'
<sup>14</sup> Multiple No	<sup>15</sup> Proposed Depth 12,975'	<sup>16</sup> Formation Atoka	<sup>17</sup> Contractor	<sup>18</sup> Spud Date

**Proposed Casing and Cement Program**

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	463	398	Surface
12 1/4"	8 5/8"	32#	4,505	1600 + 200	Surface
7 7/8"	5 1/2"	17#	12,974	825	Top of WC

<sup>19</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone.  
Describe the blowout prevention program, if any. Use additional sheets if necessary.

Initial completion was in Lea; Mississippian perms 12,786-12,798'.  
Plan to set plug and test Shoe Bar; Atoka perms 12,388-12,396'.  
Intend to request permission to commingle production downhole.

<sup>20</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. Signature: 		<b>OIL CONSERVATION DIVISION</b>	
Printed name: Janet Burns		Approved by:	
Title: Reg. Tech.		Title:	
Date: 5/6/03		Approval Date:	Expiration Date:
Phone: (903) 561-2900		Conditions of Approval: Attached <input type="checkbox"/>	