

3-25 Same for all  
of Mewbourne  
wells

STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION

APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.

Case No. 15,600

APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.

Case No. 15,601

APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.

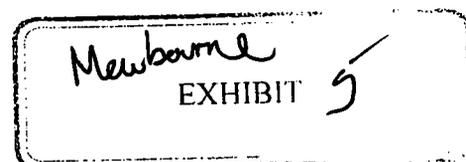
Case No. 15,602

AFFIDAVIT OF NOTICE

COUNTY OF SANTA FE    )  
  ) ss.  
STATE OF NEW MEXICO    )

James Bruce, being duly sworn upon his oath, deposes and states:

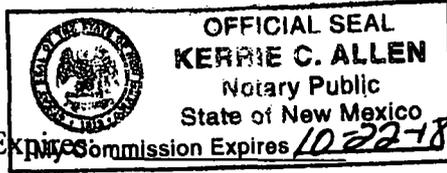
1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Mewbourne Oil Company.
3. Mewbourne Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the interest owners entitled to receive notice of the applications filed herein.
4. Notice of the applications was provided to the interest owners, at their correct addresses, by certified mail. Copies of the notice letter and certified return receipts are attached hereto as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules NMAC 19.15.4.9 and 19.15.4.12.C.



James Bruce  
James Bruce

SUBSCRIBED AND SWORN TO before me this        day of ~~October, 2016~~ by  
James Bruce.

*29th day of March, 2017*



My Commission Expires

*Kerrie C. Allen*  
Notary Public

**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

[jamesbruc@aol.com](mailto:jamesbruc@aol.com)

November 9, 2016

To: Persons on Exhibit A

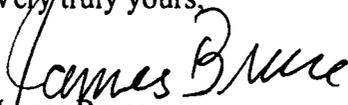
Ladies and gentlemen:

Enclosed are copies of three applications for a non-standard oil spacing and proration unit and compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding Bone Spring wells in (i) the E/2E/2 of Section 15, (ii) the W/2E/2 of Section 15, and (iii) the E/2W/2 of Section 15, in Township 23 South, Range 34 East, NMPM, Lea County, New Mexico

These matters are scheduled for hearing at 8:15 a.m. on Thursday, December 1, 2016, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as an owner of an interest that may be affected by these applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Wednesday, November 23, 2016. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

  
James Bruce

Attorney for Mewbourne Oil Company

ATTACHMENT. *A*

Exhibit A

Black Mountain Operating, LLC  
Suite 1200  
500 Main Street  
Fort Worth, Texas 76102

Attention: Luke Mildren

Tom M. Ragsdale  
Suite 601  
400 North Sam Houston Parkway East  
Houston, Texas 77060

Attention: Karen Stanford

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Tom M. Ragsdale  
Suite 601  
400 North Sam Houston Parkway East  
Houston, Texas 77060

2. Article Number (Transfer from service label)  
9590 9402 2354 6225 8697 05  
7012 3050 0000 6866 9171

PS Form 3811, July 2015 PSN 7530-02-000-9053

*MOC PRONG*

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
*[Signature]*

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

|  |   |
|--|---|
| <input type="checkbox"/> Adult Signature   | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery   | <input type="checkbox"/> Registered Mail™                           |
| <input checked="" type="checkbox"/> Certified Mail®  | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery  | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery   | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery                                     | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery all Restricted Delivery (over 500g) |   |

Domestic Return Receipt

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
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|  |    |               |
|--|----|---------------|
| Postage  | \$ | Postmark Here |
| Certified Fee                                  |    |               |
| Return Receipt Fee (Endorsement Required)      |    |               |
| Restricted Delivery Fee (Endorsement Required) |    |               |
| Total Postage & Fees                           | \$ |               |

Sent To: Black Mountain Operating, LLC  
Suite 1200  
500 Main Street  
Fort Worth, Texas 76102

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6866 9171

**U.S. Postal Service™**  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at [www.usps.com](http://www.usps.com)

**OFFICIAL USE**

|  |    |               |
|--|----|---------------|
| Postage  | \$ | Postmark Here |
| Certified Fee                                  |    |               |
| Return Receipt Fee (Endorsement Required)      |    |               |
| Restricted Delivery Fee (Endorsement Required) |    |               |
| Total Postage & Fees                           | \$ |               |

Sent To: Tom M. Ragsdale  
Suite 601  
400 North Sam Houston Parkway East  
Houston, Texas 77060

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6866 9171

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Black Mountain Operating, LLC  
Suite 1200  
500 Main Street  
Fort Worth, Texas 76102

2. Article Number (Transfer from service label)  
9590 9402 2354 6225 8697 12  
7012 3050 0000 6866 9171

PS Form 3811, July 2015 PSN 7530-02-000-9053

*MOC PRONG*

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
*[Signature]*

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

|  |   |
|--|---|
| <input type="checkbox"/> Adult Signature   | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery   | <input type="checkbox"/> Registered Mail™                           |
| <input checked="" type="checkbox"/> Certified Mail®  | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery  | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery   | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery                                     | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery all Restricted Delivery (over 500g) |   |

Domestic Return Receipt

Offset Operators

Section 10

Siana Operating LLC  
EOG Resources, Inc.  
CML Exploration, LLC

Section 11

BTA Oil Producers, LLC  
Chevron U.S.A. Inc.  
Edward R. Hudson, Jr.  
Estate of Josephine T. Hudson  
Zorro Partners, Ltd.  
Delmar Hudson Lewis Living Trust  
Lindy's Living Trust  
Ard Oil, Ltd.  
The Salient Zarvona Energy Fund, LP  
Overton Energy Investments VI, LLC

W/2W/2 Section 14

Mewbourne Oil Company

Section 23

Regeneration Energy Corporation

Section 22

Siana Operating LLC  
Black Mountain Operating LLC  
CML Exploration, LLC

W/2W/2 Section 15

Mewbourne Oil Company

EXHIBIT 6

**STATE OF NEW MEXICO  
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT  
OIL CONSERVATION DIVISION**

**APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**Case No. 15,600**

**APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**Case No. 15,601**

**APPLICATION OF MEWBOURNE OIL COMPANY  
FOR A NON-STANDARD OIL SPACING AND  
PRORATION UNIT AND COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

**Case No. 15,602**

**AFFIDAVIT OF NOTICE**

COUNTY OF SANTA FE    )  
                                  ) ss.  
STATE OF NEW MEXICO    )

James Bruce, being duly sworn upon his oath, deposes and states:

1. I am over the age of 18, and have personal knowledge of the matters stated herein.
2. I am an attorney for Mewbourne Oil Company.
3. Mewbourne Oil Company has conducted a good faith, diligent effort to find the names and correct addresses of the offset operators or working interest owners entitled to receive notice of the applications filed herein.
4. Notice of the applications was provided to the offsets by certified mail. Copies of the notice letters and certified return receipts are attached hereto as Attachment A.
5. Applicant has complied with the notice provisions of Division Rules NMAC 19.15.4.9 and 19.15.4.12.C.

EXHIBIT 7

*James Bruce*

James Bruce

SUBSCRIBED AND SWORN TO before me this \_\_\_\_\_ day of October, 2016 by  
James Bruce.

*29th of March, 2017*



My Commission Expires

*Kerrie C. Allen*  
Notary Public

**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

[jamesbruc@aol.com](mailto:jamesbruc@aol.com)

November 9, 2016

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

To: Persons on Exhibit A

Enclosed are copies of three applications for a non-standard oil spacing and proration unit and compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding Bone Spring wells in (i) the E/2E/2 of Section 15, (ii) the W/2E/2 of Section 15, and (iii) the E/2W/2 of Section 15, in Township 23 South, Range 34 East, NMPM, Lea County, New Mexico

These matters are scheduled for hearing at 8:15 a.m. on Thursday, December 1, 2016, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but **as an offset operator or working interest owner to one or more of these wells** who may be affected by these applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Wednesday, November 23, 2016. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,



James Bruce

Attorney for Mewbourne Oil Company

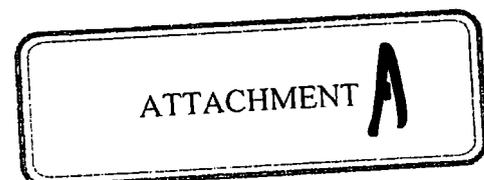


EXHIBIT A

Siana Operating LLC  
P.O. Box 10303  
Midland, Texas 79702

EOG Resources, Inc.  
P.O. Box 2267  
Midland, Texas 79702

GMT Exploration Company LLC  
Suite 2000  
1560 Broadway  
Denver, Colorado 80202

CML Exploration, LLC  
P.O. Box 890  
Snyder, Texas 79550

Regeneration Energy Corporation  
P.O. Box 210  
Artesia, New Mexico 88210

BTA Oil Producers, LLC  
104 South Pecos Street  
Midland, Texas 79701

Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

Attention: Permitting Team

Edward R. Hudson Jr.;  
Estate of Josephine T. Hudson;  
Zorro Partners, Ltd.  
616 Texas Street  
Fort Worth, Texas 76102

Delmar Hudson Lewis Living Trust  
P.O. Box 2546  
Fort Worth, Texas 76113

Lindy's Living Trust  
6300 Ridglea Place, Suite 1005-A  
Fort Worth, Texas 76116

Ard Oil, Ltd.  
222 West 4<sup>th</sup> Street, PH-5  
Fort Worth, Texas 76102

The Salient Zarvona Energy Fund, LP  
1010 Lamar Street, Suite 500  
Houston, Texas 77002

Overton Energy Investments VI, LLC  
4265 San Felipe, Suite 1040  
Houston, Texas 77027

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS. HOLD AT DOTTED LINE

**CERTIFIED MAIL**<sup>TM</sup>

7012 3050 0000 6866 9270

**From**

James Bruce  
P.O. Box 1056  
Santa Fe, New Mexico 87504

**To**

NIXIE 750 C0 1 2212/12/16

RETURN TO SENDER  
NOT DELIVERABLE AS ADDRESSED  
UNABLE TO FORWARD

BC: 87504105656 2050N347073-00669

U.S. Postal Service<sup>TM</sup>  
**CERTIFIED MAIL<sup>TM</sup> RECEIPT**  
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7012 3050 0000 6866 9270

|   |    |
|---|----|
| Postage   | \$ |
| Certified Fee                                     |    |
| Return Receipt Fee<br>(Endorsement Required)      |    |
| Restricted Delivery Fee<br>(Endorsement Required) |    |
| Total Postage & Fees                              | \$ |

Sent To Lindy's Living Trust  
6300 Ridglea Place, Suite 1005-A  
Fort Worth, Texas 76116  
Street, Apt. No., or PO Box No.  
City, State, ZIP+4

PS Form 3800, August 2006

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lindy's Living Trust  
6300 Ridglea Place, Suite 1005-A  
Fort Worth, Texas 76116

2. Article Number (Transfer from carrier label)

9590 9402 2304 0220 0017 50

7012 3050 0000 6866 9270

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

**X**  Agent  
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail<sup>®</sup>
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express<sup>®</sup>
- Registered Mail<sup>TM</sup>
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation<sup>TM</sup>
- Signature Confirmation Restricted Delivery

**JAMES BRUCE**  
ATTORNEY AT LAW

POST OFFICE BOX 1056  
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213  
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)  
(505) 660-6612 (Cell)  
(505) 982-2151 (Fax)

[jamesbruce@aol.com](mailto:jamesbruce@aol.com)

December 29, 2016

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

Lindy's Living Trust  
Suite 302  
4200 South Hulen  
Fort Worth, Texas 76109

Enclosed are copies of three applications for a non-standard oil spacing and proration unit and compulsory pooling, filed with the New Mexico Oil Conservation Division by Mewbourne Oil Company, regarding Bone Spring wells in (i) the E/2E/2 of Section 15, (ii) the W/2E/2 of Section 15, and (iii) the E/2W/2 of Section 15, in Township 23 South, Range 34 East, NMPM, Lea County, New Mexico

These matters are scheduled for hearing at 8:15 a.m. on Thursday, January 19, 2017, in Porter Hall at the Division's offices at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505. You are not required to attend this hearing, but as **an offset operator or working interest owner to one or more of these wells** who may be affected by these applications, you may appear and present testimony. Failure to appear at that time and become a party of record will preclude you from contesting these matters at a later date.

A party appearing in a Division case is required by Division Rules to file a Pre-Hearing Statement no later than Wednesday, January 12, 2017. This statement must be filed with the Division's Santa Fe office at the above address, and should include: The names of the party and its attorney; a concise statement of the case; the names of the witnesses the party will call to testify at the hearing; the approximate time the party will need to present its case; and identification of any procedural matters that need to be resolved prior to the hearing. The Pre-Hearing Statement must also be provided to the undersigned.

Very truly yours,

  
James Bruce

Attorney for Mewbourne Oil Company

**SENDER: COMPLETE THIS SECTION**

- Complete Items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lindy's Living Trust  
Suite 302  
4200 South Hulen  
Fort Worth, Texas 76109

9590 9402 2349 6225 8210 60

2. A 7014 0510 0000 9590 1401

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*[Handwritten Signature]*

Agent

Addressee

B. Received by (Printed Name)

*TANVIA STOUT*

C. Date of Delivery

*1-13-17*

D. Is delivery address different from Item 1?  Yes

If YES, enter delivery address below:  No

3. Service Type

Adult Signature

Adult Signature Restricted Delivery

Certified Mail®

Certified Mail Restricted Delivery

Collect on Delivery

Collect on Delivery Restricted Delivery

Priority Mail Express®

Registered Mail™

Registered Mail Restricted Delivery

Return Receipt for Merchandise

Signature Confirmation™

Signature Confirmation Restricted Delivery

(over \$500) Restricted Delivery

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Edward R. Hudson Jr.;  
Estate of Josephine T. Hudson;  
Zorro Partners, Ltd.  
616 Texas Street  
Fort Worth, Texas 76102

9590 9402 2354 6225 8691 14

2. Article Number (Transfer from service label)

7012 3050 0000 6866 9256

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 *Myrtle*  Agent  Addressee

B. Received by (Printed Name) *Myrtle* C. Date of Delivery *11-17-16*

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

*M-P*

Domestic Return Receipt

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|   |    |                  |
|---|----|------------------|
| Postage   | \$ | Postmark<br>Here |
| Certified Fee                                     |    |                  |
| Return Receipt Fee<br>(Endorsement Required)      |    |                  |
| Restricted Delivery Fee<br>(Endorsement Required) |    |                  |
| Total Postage & Fees                              | \$ |                  |

Sent To *EOG Resources, Inc.*  
 P.O. Box 2267  
 Midland, Texas 79702

Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

9590 9402 2354 6225 8691 14

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|   |    |                  |
|---|----|------------------|
| Postage   | \$ | Postmark<br>Here |
| Certified Fee                                     |    |                  |
| Return Receipt Fee<br>(Endorsement Required)      |    |                  |
| Restricted Delivery Fee<br>(Endorsement Required) |    |                  |
| Total Postage & Fees                              | \$ |                  |

Sent To *Edward R. Hudson Jr.;  
Estate of Josephine T. Hudson;  
Zorro Partners, Ltd.  
616 Texas Street  
Fort Worth, Texas 76102*

Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

9590 9402 2354 6225 8691 14

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

EOG Resources, Inc.  
P.O. Box 2267  
Midland, Texas 79702

9590 9402 2354 6225 8698 35

2. Article Number

7012 3050 0000 6866 9195

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 *Robert Force*  Agent  Addressee

B. Received by (Printed Name) *R. Force* C. Date of Delivery *11-21-16*

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

*M-P*

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Siana Operating LLC  
P.O. Box 10303  
Midland, Texas 79702

9590 9402 2354 6225 8698 42

2. Article Number (Transfer from service label)

7012 3050 0000 6866 9188

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 *Doris Biddy*       Agent  
 Addressee

B. Received by (Printed Name)  
*DORIS BIDDY*

C. Date of Delivery  
*11/29/16*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

|  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                         | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery     | <input type="checkbox"/> Registered Mail™                           |
| <input checked="" type="checkbox"/> Certified Mail®              | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery      | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery                     | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |

Domestic Return Receipt

**U.S. Postal Service™  
 CERTIFIED MAIL™ RECEIPT  
 (Domestic Mail Only; No Insurance Coverage Provided)**

For delivery information visit our website at [www.usps.com](http://www.usps.com)

|  |    |                  |
|--|----|------------------|
| Postage  | \$ | Postmark<br>Here |
| Certified Fee                                  |    |                  |
| Return Receipt Fee (Endorsement Required)      |    |                  |
| Restricted Delivery Fee (Endorsement Required) |    |                  |
| Total Postage & Fees                           | \$ |                  |

7026 9999 0000 050E 2107

Sent To: GMT Exploration Company LLC  
 Suite 2000  
 Street, Apt. No., or PO Box No.: 1560 Broadway  
 Denver, Colorado 80202  
 City, State, ZIP+4

PS Form 3800, August 2006. See Reverse for Instructions

**U.S. Postal Service™  
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| Certified Fee                                  |    |                  |
| Return Receipt Fee (Endorsement Required)      |    |                  |
| Restricted Delivery Fee (Endorsement Required) |    |                  |
| Total Postage & Fees                           | \$ |                  |

Sent To: Siana Operating LLC  
 P.O. Box 10303  
 Midland, Texas 79702  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3800, August 2006. See Reverse for Instructions

9976 6866 9188

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1. Article Addressed to:

GMT Exploration Company LLC  
 Suite 2000  
 1560 Broadway  
 Denver, Colorado 80202

9590 9402 2354 6225 8698 28

2. Article Number (Transfer from service label)

7012 3050 0000 6866 9201

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
 *Jim Lyman*       Agent  
 Addressee

B. Received by (Printed Name)  
*Jim Lyman*

C. Date of Delivery  
*11-28-16*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type

|  |   |
|--|---|
| <input type="checkbox"/> Adult Signature                         | <input type="checkbox"/> Priority Mail Express®                     |
| <input type="checkbox"/> Adult Signature Restricted Delivery     | <input type="checkbox"/> Registered Mail™                           |
| <input checked="" type="checkbox"/> Certified Mail®              | <input type="checkbox"/> Registered Mail Restricted Delivery        |
| <input type="checkbox"/> Certified Mail Restricted Delivery      | <input type="checkbox"/> Return Receipt for Merchandise             |
| <input type="checkbox"/> Collect on Delivery                     | <input type="checkbox"/> Signature Confirmation™                    |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |

M-P

Domestic Return Receipt

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature  
 X *EDJ*  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery  
*EDJ* *7/25/11*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

1. Article Addressed to:

Delmar Hudson Lewis Living Trust  
 P.O. Box 2546  
 Fort Worth, Texas 76113

9590 9402 2354 6225 8697 67

2. Article I

7012 3050 0000 6866 9263

PS Form 3811, July 2015 PSN 7530-02-000-9053

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| Certified Fee                                     |    |                  |
| Return Receipt Fee<br>(Endorsement Required)      |    |                  |
| Restricted Delivery Fee<br>(Endorsement Required) |    |                  |
| Total Postage & Fees                              | \$ |                  |

Sent To BTA Oil Producers, LLC  
 104 South Pecos Street  
 Midland, Texas 79701  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6866 9263

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| Certified Fee                                     |    |                  |
| Return Receipt Fee<br>(Endorsement Required)      |    |                  |
| Restricted Delivery Fee<br>(Endorsement Required) |    |                  |
| Total Postage & Fees                              | \$ |                  |

Sent To Delmar Hudson Lewis Living Trust  
 P.O. Box 2546  
 Fort Worth, Texas 76113  
 Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6866 9263

**SENDER: COMPLETE THIS SECTION**

**COMPLETE THIS SECTION ON DELIVERY**

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature  
 X *EDJ*  Agent  
 Addressee

B. Received by (Printed Name) C. Date of Delivery  
*EDJ* *7/25/11*

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

1. Article Addressed to:

BTA Oil Producers, LLC  
 104 South Pecos Street  
 Midland, Texas 79701

9590 9402 2354 6225 8697 67

2. Article I

7012 3050 0000 6866 9232

PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

3. Service Type  
 Priority Mail Express®  
 Registered Mail™  
 Registered Mail Restricted Delivery  
 Certified Mail®  
 Certified Mail Restricted Delivery  
 Return Receipt for Merchandise  
 Signature Confirmation™  
 Signature Confirmation Restricted Delivery

*M-P*

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

CML Exploration, LLC  
P.O. Box 890  
Snyder, Texas 79550

9590 9402 2354 6225 8698 11

2. Article Number (Transfer from carrier label)

7012 3050 0000 6866 9218

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee  
*Saris Key*

B. Received by (Printed Name) *Saris Key* C. Date of Delivery *11-17-16*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

Domestic Return Receipt

7012 3050 0000 6866 9218

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|---|----|------------------|
| Postage   | \$ | Postmark<br>Here |
| Certified Fee                                     |    |                  |
| Return Receipt Fee<br>(Endorsement Required)      |    |                  |
| Restricted Delivery Fee<br>(Endorsement Required) |    |                  |
| Total Postage & Fees                              | \$ |                  |

Sent To: The Salient Zarvona Energy Fund, LP  
1010 Lamar Street, Suite 500  
Houston, Texas 77002

Street, Apt. No., or PO Box No.  
City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

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|---|----|------------------|
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| Certified Fee                                     |    |                  |
| Return Receipt Fee<br>(Endorsement Required)      |    |                  |
| Restricted Delivery Fee<br>(Endorsement Required) |    |                  |
| Total Postage & Fees                              | \$ |                  |

Sent To: CML Exploration, LLC  
P.O. Box 890  
Snyder, Texas 79550

Street, Apt. No., or PO Box No.  
City, State, ZIP+4

PS Form 3800, August 2006

See Reverse for Instructions

7012 3050 0000 6866 9218

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

The Salient Zarvona Energy Fund, LP  
1010 Lamar Street, Suite 500  
Houston, Texas 77002

9590 9402 2354 6225 8698 11

2. Article Number (Transfer from carrier label)

7012 3050 0000 6866 9294

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee  
*Beatriz Lozano*

B. Received by (Printed Name) *Beatriz Lozano* C. Date of Delivery *11-18*

D. Is delivery address different from item 1?  Yes  No  
If YES, enter delivery address below:

3. Service Type

Adult Signature  Priority Mail Express®  
 Adult Signature Restricted Delivery  Registered Mail™  
 Certified Mail®  Registered Mail Restricted Delivery  
 Certified Mail Restricted Delivery  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

restricted Delivery

M-P

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature  
 *Kathy Woods*  Agent  
 Addressee

B. Received by (Printed Name)  
*Kathy Woods*

C. Date of Delivery  
*11/17/16*

1. Article Addressed to:

Overton Energy Investments VI,  
 4265 San Felipe, Suite 1040  
 Houston, Texas 77027

9590 9402 2354 6225 8697 29

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

2. FIM  
 7012 3050 0000 6866 9300

restricted Delivery (over \$500)

PS Form 3811, July 2015 PSN 7530-02-000-9053

M-P Domestic Return Receipt

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|  |    |               |
|--|----|---------------|
| Postage  | \$ | Postmark Here |
| Certified Fee                                  |    |               |
| Return Receipt Fee (Endorsement Required)      |    |               |
| Restricted Delivery Fee (Endorsement Required) |    |               |
| Total Postage & Fees                           | \$ |               |

Sent To: **Regeneration Energy Corporation**  
 P.O. Box 210  
 Artesia, New Mexico 88210

Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

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5226 9999 0000 0506 2107

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|  |    |               |
|--|----|---------------|
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| Certified Fee                                  |    |               |
| Return Receipt Fee (Endorsement Required)      |    |               |
| Restricted Delivery Fee (Endorsement Required) |    |               |
| Total Postage & Fees                           | \$ |               |

Sent To: **Overton Energy Investments VI, LLC**  
 4265 San Felipe, Suite 1040  
 Houston, Texas 77027

Street, Apt. No., or PO Box No.  
 City, State, ZIP+4

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7012 3050 0000 6866 9300

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

A. Signature  
 *Ray Miller*  Agent  
 Addressee

B. Received by (Printed Name)  
*Ray Miller*

C. Date of Delivery  
*11/2/16*

1. Article Addressed to:

Regeneration Energy Corporation  
 P.O. Box 210  
 Artesia, New Mexico 88210

9590 9402 2354 6225 8698 04

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

3. Service Type  
 Priority Mail Express®  
 Adult Signature  Registered Mail™  
 Adult Signature Restricted Delivery  Registered Mail Restricted Delivery  
 Certified Mail®  Return Receipt for Merchandise  
 Collect on Delivery  Signature Confirmation™  
 Collect on Delivery Restricted Delivery  Signature Confirmation Restricted Delivery

2. Article Number (Transfer from service label)  
 7012 3050 0000 6866 9225

restricted Delivery (over \$500)

PS Form 3811, July 2015 PSN 7530-02-000-9053

M-P Domestic Return Receipt

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

9590 9402 2354 6225 8697 81

2. Article Number (Transfer from service label)  
7012 3050 0000 6866 9249

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *M. P. Horn*  Agent  Addressee

B. Received by (Printed Name)  
*Marnie Horn*

C. Date of Delivery  
*11.17.14*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  
 Adult Signature  
 Adult Signature Restricted Delivery  
 Certified Mail®  
 Certified Mail Restricted Delivery  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery  
 Priority Mail Express®  
 Registered Mail™  
 Registered Mail Restricted Delivery  
 Return Receipt for Merchandise  
 Signature Confirmation™  
 Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt

M-P

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Postage \$  
Certified Fee  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage & Fees \$

Postmark Here

Sent To  
Ard Oil, Ltd.  
222 West 4<sup>th</sup> Street, PH-5  
Fort Worth, Texas 76102

Street, Apt. No., or PO Box No.  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6866 9249

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Postage \$  
Certified Fee  
Return Receipt Fee (Endorsement Required)  
Restricted Delivery Fee (Endorsement Required)  
Total Postage & Fees \$

Postmark Here

Sent To  
Chevron U.S.A. Inc.  
6301 Deauville Boulevard  
Midland, Texas 79706

Street, Apt. No., or PO Box No.  
City, State, ZIP+4

PS Form 3800, August 2006 See Reverse for Instructions

7012 3050 0000 6866 9249

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ard Oil, Ltd.  
222 West 4<sup>th</sup> Street, PH-5  
Fort Worth, Texas 76102

9590 9402 2354 6225 8697 43

2. Article Number (Transfer from service label)  
7012 3050 0000 6866 9287

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  
X *Bonnie Stockton*  Agent  Addressee

B. Received by (Printed Name)  
*Bonnie Stockton*

C. Date of Delivery  
*11/21/14*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type  
 Adult Signature  
 Adult Signature Restricted Delivery  
 Certified Mail®  
 Certified Mail Restricted Delivery  
 Collect on Delivery  
 Collect on Delivery Restricted Delivery  
 Priority Mail Express®  
 Registered Mail™  
 Registered Mail Restricted Delivery  
 Return Receipt for Merchandise  
 Signature Confirmation™  
 Signature Confirmation Restricted Delivery

Restricted Delivery

Domestic Return Receipt

M-P

A.A.P.L. FORM 610 - 1989

**MODEL FORM OPERATING AGREEMENT  
HORIZONTAL MODIFICATIONS**

OPERATING AGREEMENT

DATED

February 1 , 2016 ,  
*Year*

OPERATOR Mewbourne Oil Company

CONTRACT AREA \_\_\_\_\_

Township 23 South, Range 34 East, N.M.P.M.

Section 15: All

Pronghorn "15" Prospect

COUNTY OR PARISH OF Lea , STATE OF New Mexico

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AMERICAN ASSOCIATION OF PROFESSIONAL  
LANDMEN, 4100 FOSSIL CREEK BLVD. FORT  
WORTH, TEXAS, 76137, APPROVED FORM.  
A.A.P.L. NO. 610 - 1989 (Horz.)

EXHIBIT 5

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## OPERATING AGREEMENT

1 THIS AGREEMENT, entered into by and between Mewbourne Oil Company  
 2 hereinafter designated and referred to as "Operator," and the signatory party or parties other than Operator, sometimes hereinafter referred  
 3 to individually as "Non-Operator," and collectively as "Non-Operators."

## WITNESSETH:

4  
 5  
 6 WHEREAS, the parties to this agreement are owners of Oil and Gas Leases and/or Oil and Gas Interests in the land  
 7 identified in Exhibit "A," and the parties hereto have reached an agreement to explore and develop these Leases and/or Oil  
 8 and Gas Interests for the production of Oil and Gas to the extent and as hereinafter provided,

9 NOW, THEREFORE, it is agreed as follows:

## ARTICLE I

## DEFINITIONS

10  
 11 As used in this agreement, the following words and terms shall have the meanings here ascribed to them:

12  
 13 A. The term "AFE" shall mean an Authority for Expenditure prepared by a party to this agreement for the purpose of estimating  
 14 the costs to be incurred in conducting an operation hereunder. An AFE is not a contractual commitment. Rather it is only an estimate, made  
 15 in good faith.

16  
 17 B. The term "Completion" or "Complete" shall mean a single operation intended to complete a well as a producer of Oil and Gas  
 18 in one or more Zones, including, but not limited to, the setting of production casing, perforating, well stimulation and production testing  
 19 conducted in such operation.

20  
 21 C. The term "Contract Area" shall mean all of the lands, Oil and Gas Leases and/or Oil and Gas Interests intended to be  
 22 developed and operated for Oil and Gas purposes under this agreement. Such lands, Oil and Gas Leases and Oil and Gas Interests are  
 23 described in Exhibit "A."

24  
 25 D. The term "Deepen" shall mean a single operation whereby a well is drilled to an objective Zone below the deepest Zone in  
 26 which the well was previously drilled, or below the Deepest Zone proposed in the associated AFE, whichever is the lesser. When used in  
 27 connection with a Horizontal Well, the term "Deepen" shall mean an operation whereby a Lateral is drilled to a Displacement greater than  
 28 (i) the Displacement contained in the proposal for such operation approved by the Consenting Parties, or (ii) to the Displacement to which  
 29 the Lateral was drilled pursuant to a previous proposal.

30  
 31 E. The term "Displacement" shall have the same meaning as the term defined by the state regulatory agency having jurisdiction  
 32 over the Contract Area, in the absence of which the term shall otherwise mean the length of a Lateral.

33  
 34 F. The terms "Drilling Party" and "Consenting Party" shall mean a party who agrees to join in and pay its share of the cost of any  
 35 operation conducted under the provisions of this agreement.

36  
 37 G. The term "Drilling Unit" shall mean the area fixed for the drilling of one well by order or rule of any state or federal  
 38 body having authority. If a Drilling Unit is not fixed by any such rule or order, a Drilling Unit shall be the drilling unit as  
 39 established by the pattern of drilling in the Contract Area unless fixed by express agreement of the Drilling Parties.

40  
 41 H. The term "Drill site" shall mean the Oil and Gas Lease or Oil and Gas Interest on which a proposed well is to be  
 42 located. When used in connection with a Horizontal Well, the term "Drill site" shall mean (i) the surface hole location, and (ii) the Oil and  
 43 Gas Leases or Oil and Gas Interests within the Drilling Unit on or under which the wellbore, including the Lateral, is located.

44  
 45 I. The term "Horizontal Rig Move-On Period" shall mean the number of days after the date of rig release of a Spudder Rig until  
 46 the date a rig capable of drilling a Horizontal Well to its Total Measured Depth has moved on to location.

47  
 48 J. The term "Horizontal Well" shall have the same meaning as the term defined by the state regulatory agency having  
 49 jurisdiction over the Contract Area, in the absence of which the term shall mean a well containing one or more Laterals which are drilled,  
 50 Completed or Recompleted in a manner in which the horizontal component of the Completion interval (1) extends at least one hundred feet  
 51 (100') in the objective formation(s) and (2) exceeds the vertical component of the Completion interval in the objective formation(s).

52  
 53 K. The term "Initial Well" shall mean the well required to be drilled by the parties hereto as provided in Article VI.A.

54  
 55 L. The term "Lateral" shall mean that portion of a wellbore that deviates from approximate vertical orientation to approximate  
 56 horizontal orientation and all wellbore beyond such deviation to Total Measured Depth.

57  
 58 M. The term "Non-Consent Well" shall mean a well in which less than all parties have conducted an operation as provided in  
 59 Article VI.B.2.

60  
 61 N. The terms "Non-Drilling Party" and "Non-Consenting Party" shall mean a party who elects not to participate in a proposed  
 62 operation.

63  
 64 O. The term "Oil and Gas" shall mean oil, gas, casinghead gas, gas condensate, and/or all other liquid or gaseous hydrocarbons and  
 65 other marketable substances produced therewith, unless an intent to limit the inclusiveness of this term is specifically stated.

66  
 67 P. The term "Oil and Gas Interests" or "Interests" shall mean unleased fee and mineral interests in Oil and Gas in tracts of land  
 68 lying within the Contract Area which are owned by parties to this agreement.

69  
 70 Q. The terms "Oil and Gas Lease," "Lease" and "Leasehold" shall mean the oil and gas leases or interests therein covering tracts  
 71 of land lying within the Contract Area which are owned by the parties to this agreement.

72  
 73 R. The term "Plug Back" shall mean a single operation whereby a deeper Zone is abandoned in order to attempt a Completion in  
 74 a shallower Zone. When used in connection with a Horizontal Well, the term "Plug Back" shall mean an operation to test or Complete the  
 75 well at a stratigraphically shallower Zone in which the operation has been or is being Completed and which is not in an existing Lateral.

76  
 77 S. The term "Recompletion" or "Recomplete" shall mean an operation whereby a Completion in one Zone is abandoned in order  
 78 to attempt a Completion in a different Zone within the existing wellbore.

79  
 80 T. The term "Rework" shall mean an operation conducted in the wellbore of a well after it is Completed to secure, restore, or  
 81 improve production in a Zone which is currently open to production in the wellbore. Such operations include, but are not limited to, well  
 82 stimulation operations but exclude any routine repair or maintenance work or drilling, Sidetracking, Deepening, Completing,  
 83 ReCompleting, or Plugging Back of a well.

84  
 85 U. The term "Sidetrack" shall mean the directional control and intentional deviation of a well from vertical so as to change the  
 86 bottom hole location unless done to straighten the hole or drill around junk in the hole to overcome other mechanical difficulties. When used  
 87 in connection with a Horizontal Well, the term "Sidetrack" shall mean the directional control and deviation of a well outside the existing  
 88 Lateral(s) so as to change the Zone or the direction of a Lateral from the approved proposal unless done to straighten the hole or drill  
 89 around junk in the hole or to overcome other mechanical difficulties.

90  
 91 V. The term "Spudder Rig" shall mean a drilling rig utilized only for drilling all or part of the vertical component of a Horizontal  
 92 Well; a rig used only for setting conductor pipe shall not be considered a Spudder Rig.

93  
 94 W. The term "Terminus" shall have the same meaning as the term defined by the state regulatory agency having jurisdiction

1 over the Contract Area, in the absence of which the term shall mean the furthest point drilled in the Lateral.

2 X. The term "Total Measured Depth," when used in connection with a Horizontal Well, shall mean the distance from the surface of  
3 the ground to the Terminus, as measured along and including the vertical component of the well and Lateral(s). When the proposed  
4 operation(s) is the drilling of, or operation on, a Horizontal Well, the terms "depth" or "total depth" wherever used in this agreement shall be  
5 deemed to read "Total Measured Depth" insofar as it applies to such well.

6 Y. The term "Vertical Well" shall mean a well drilled, Completed or Recompleted other than a Horizontal Well.

7 Z. The term "Zone" shall mean a stratum of earth containing or thought to contain a common accumulation of Oil and Gas  
8 separately producible from any other common accumulation of Oil and Gas.

9 Unless the context otherwise clearly indicates, words used in the singular include the plural, the word "person" includes  
10 natural and artificial persons, the plural includes the singular, and any gender includes the masculine, feminine, and neuter.

11 **ARTICLE II**

12 **EXHIBITS**

13 The following exhibits, as indicated below and attached hereto, are incorporated in and made a part hereof:

14 X A. Exhibit "A," shall include the following information:

- 15 (1) Description of lands subject to this agreement,
- 16 (2) Restrictions, if any, as to depths, formations, or substances,
- 17 (3) Parties to agreement with addresses and telephone numbers for notice purposes,
- 18 (4) Percentages or fractional interests of parties to this agreement,
- 19 (5) Oil and Gas Leases and/or Oil and Gas Interests subject to this agreement.
- 20 (6) Burdens on production.

21 ~~\_\_\_\_\_~~ B. Exhibit "B," Form of Lease.

22 X C. Exhibit "C," Accounting Procedure.

23 X D. Exhibit "D," Insurance.

24 X E. Exhibit "E," Gas Balancing Agreement.

25 X F. Exhibit "F," Non-Discrimination and Certification of Non-Segregated Facilities.

26 ~~\_\_\_\_\_~~ G. Exhibit "G," Tax Partnership.

27 X H. Other: Model Form Recording Supplement

28 If any provision of any exhibit, except Exhibits "E," "F" and "G," is inconsistent with any provision contained in the body of this  
29 agreement, the provisions in the body of this agreement shall prevail.

30 **ARTICLE III**

31 **INTERESTS OF PARTIES**

32 **A. Oil and Gas Interests:**

33 If any party owns an Oil and Gas Interest in the Contract Area, that Interest shall be treated for all purposes of this agreement  
34 and during the term hereof as if it were covered by the form of Oil and Gas Lease attached hereto as Exhibit "B," and the owner  
35 thereof shall be deemed to own both royalty interest in such lease and the interest of the lessee thereunder.

36 **B. Interests of Parties in Costs and Production:**

37 Unless changed by other provisions, all costs and liabilities incurred in operations under this agreement shall be borne and paid,  
38 and all equipment and materials acquired in operations on the Contract Area shall be owned, by the parties as their interests are set forth in  
39 Exhibit "A." In the same manner, the parties shall also own all production of Oil and Gas from the Contract Area subject, however, to the  
40 payment of royalties and other burdens on production as described hereafter.

41 Regardless of which party has contributed any Oil and Gas Lease or Oil and Gas Interest on which royalty or other burdens may  
42 be payable and except as otherwise expressly provided in this agreement, each party shall pay or deliver, or cause to be paid or delivered,  
43 all burdens on its share of the production from the Contract Area up to, but not in excess of, twenty five percent (25%) and  
44 shall indemnify, defend and hold the other parties free from any liability therefor. Except as otherwise expressly provided in this agreement,  
45 if any party has contributed hereto any Lease or Interest which is burdened with any royalty, overriding royalty, production payment or  
46 other burden on production in excess of the amounts stipulated above, such party so burdened shall assume and alone bear all such excess  
47 obligations and shall indemnify, defend and hold the other parties hereto harmless from any and all claims attributable to such excess burden.  
48 However, so long as the Drilling Unit for the productive Zone(s) is identical with the Contract Area, each party shall pay or deliver, or cause  
49 to be paid or delivered, all burdens on production from the Contract Area due under the terms of the Oil and Gas Lease(s) which such party  
50 has contributed to this agreement, and shall indemnify, defend and hold the other parties free from any liability therefor.

51 No party shall ever be responsible, on a price basis higher than the price received by such party, to any other party's lessor or  
52 royalty owner, and if such other party's lessor or royalty owner should demand and receive settlement on a higher price basis, the party  
53 contributing the affected Lease shall bear the additional royalty burden attributable to such higher price.

54 Nothing contained in this Article III.B. shall be deemed an assignment or cross-assignment of interests covered hereby, and in  
55 the event two or more parties contribute to this agreement jointly owned Leases, the parties' undivided interests in said Leaseholds shall be  
56 deemed separate leasehold interests for the purposes of this agreement.

57 **C. Subsequently Created Interests:**

58 If any party has contributed hereto a Lease or Interest that is burdened with an assignment of production given as security for the  
59 payment of money, or if, after the date of this agreement, any party creates an overriding royalty, production payment, net profits interest,  
60 assignment of production or other burden payable out of production attributable to its working interest hereunder, such burden shall be  
61 deemed a "Subsequently Created Interest." Further, if any party has contributed hereto a Lease or Interest burdened with an overriding  
62 royalty, production payment, net profits interests, or other burden payable out of production created prior to the date of this agreement, and  
63 such burden is not shown on Exhibit "A," such burden also shall be deemed a Subsequently Created Interest to the extent such burden  
64 causes the burdens on such party's Lease or Interest to exceed the amount stipulated in Article III.B. above.

65 The party whose interest is burdened with the Subsequently Created Interest (the "Burdened Party") shall assume and alone  
66 bear, pay and discharge the Subsequently Created Interest and shall indemnify, defend and hold harmless the other parties from and against  
67 any liability therefor. Further, if the Burdened Party fails to pay, when due, its share of expenses chargeable hereunder, all provisions of  
68 Article VII.B. shall be enforceable against the Subsequently Created Interest in the same manner as they are enforceable against the working  
69 interest of the Burdened Party. If the Burdened Party is required under this agreement to assign or relinquish to any other party, or parties,  
70 all or a portion of its working interest and/or the production attributable thereto, said other party, or parties, shall receive said assignment  
71 and/or production free and clear of said Subsequently Created Interest, and the Burdened Party shall indemnify, defend and hold harmless  
72 said other party, or parties, from any and all claims and demands for payment asserted by owners of the Subsequently Created Interest.

A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT - 1989 (Horz.)

IN WITNESS WHEREOF, this agreement shall be effective as of the 1st day of February, 2016.

\_\_\_\_\_, who has prepared and circulated this form for execution, represents and warrants that the form was printed from and, with the exception(s) listed below, is identical to the AAPL Form 610-1989 Model Form Operating Agreement, as published in computerized form by Forms On-A-Disk, Inc. No changes, alterations, or modifications, other than those made by strikethrough and/or insertion and that are clearly recognizable as changes in Articles \_\_\_\_\_ have been made to the form.

ATTEST OR WITNESS:

\_\_\_\_\_  
\_\_\_\_\_

OPERATOR

MEWBOURNE OIL COMPANY

By *Kenneth S. Waits*

~~James Allen Brinson~~ Kenneth S. Waits

Type or print name CM DL

Title Attorney-in-Fact President

Date 1/25/17

Tax ID or S.S. No. 75-1254872

NON-OPERATORS

\_\_\_\_\_  
\_\_\_\_\_

CHALLENGER CRUDE, LTD.

By *Richard D. Campbell*

Richard D. Campbell

Type or print name

Title President

Date 9-15-16

Tax ID or S.S. No. \_\_\_\_\_

A.A.P.L. FORM 610 - MODEL FORM OPERATING AGREEMENT - 1989 (Horz.)

IN WITNESS WHEREOF, this agreement shall be effective as of the 1st day of February, 2016.

\_\_\_\_\_ who has prepared and circulated this form for execution, represents and warrants that the form was printed from and, with the exception(s) listed below, is identical to the AAPL Form 610-1989 Model Form Operating Agreement, as published in computerized form by Forms On-A-Disk, Inc. No changes, alterations, or modifications, other than those made by strikethrough and/or insertion and that are clearly recognizable as changes in Articles \_\_\_\_\_ have been made to the form.

ATTEST OR WITNESS:

\_\_\_\_\_  
\_\_\_\_\_

OPERATOR

MEWBOURNE OIL COMPANY

By \_\_\_\_\_

James Allen Brinson

Type or print name

Title Attorney-in-Fact

Date \_\_\_\_\_

Tax ID or S.S. No. 75-1254872

NON-OPERATORS

\_\_\_\_\_  
\_\_\_\_\_

CHALLENGER CRUDE, LTD.

By \_\_\_\_\_

Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

SEELIGSON OIL CO., LTD.

By \_\_\_\_\_

Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

~~WERSEN OIL & GAS CO.~~

By \_\_\_\_\_

Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

GERALD W. GREEN

By Gerald W. Green

\_\_\_\_\_  
\_\_\_\_\_

Type or print name \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

ICA ENERGY, INC.

By \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Type or print name \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

GERALD W. GREEN

By \_\_\_\_\_

\_\_\_\_\_  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

ICA ENERGY, INC.

By Curtis N. Leonard

CURTIS N. LEONARD  
Type or print name

Title PRESIDENT / CEO

Date MARCH 14, 2016

Tax ID or S.S. No. \_\_\_\_\_

GERALD W. GREEN

By \_\_\_\_\_

\_\_\_\_\_  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

ICA ENERGY, INC.

By \_\_\_\_\_

\_\_\_\_\_  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

WILDCAT ENERGY, L.L.C.

By RL Becker

Roger Becker  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

TEXAS INDEPENDENT EXPLORATION, INC.

By \_\_\_\_\_

Fredrick W. Zimmerman  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

AXIS ENERGY CORPORATION

By \_\_\_\_\_

Kenneth Barba, Jr.  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

GERALD W. GREEN

By \_\_\_\_\_

\_\_\_\_\_  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

ICA ENERGY, INC.

By \_\_\_\_\_

\_\_\_\_\_  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

WILDCAT ENERGY, L.L.C.

By \_\_\_\_\_

Roger Becker  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

TEXAS INDEPENDENT EXPLORATION, INC.

By Fredrick W. Zimmerman

Fredrick W. Zimmerman  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

AXIS ENERGY CORPORATION

By \_\_\_\_\_

Kenneth Barbe, Jr.  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

\_\_\_\_\_  
Chad J. Bothe

GERALD W. GREEN

By \_\_\_\_\_

\_\_\_\_\_  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

ICA ENERGY, INC.

By \_\_\_\_\_

\_\_\_\_\_  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

WILDCAT ENERGY, L.L.C.

By \_\_\_\_\_

Roger Becker  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

TEXAS INDEPENDENT EXPLORATION, INC.

By \_\_\_\_\_

Fredrick W. Zimmerman  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

AXIS ENERGY CORPORATION

By \_\_\_\_\_

Kenneth Barbe, Jr.  
Type or print name

Title President

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

R. Dean Williams, Trustee  
R. Dean Williams Irrev Trust

Trust Tax ID - 75-6450703

MAILING ADDRESS:  
5416 Birchman Avenue  
Fort Worth, TX 76107-5111

Phone Number 817/289-1414  
Fax Number 817/289-1419  
Email: rachel@jointresources.com

R. DEAN WILLIAMS IRREVOCABLE TRUST

By *R. Dean Williams*

R. Dean Williams  
Type or print name

Title Trustee

Date May 9, 2016

Tax ID or S.S. No. \_\_\_\_\_

Mark G. Kalpakis, Trustee  
Mark G. Kalpakis Irrev Trust

MGK Trust Tax ID - 75-6442345

MAILING ADDRESS:  
5416 Birchman Avenue  
Fort Worth, TX 76107-5111

Phone Number 817/289-1414  
Fax Number 817/289-1419  
Email: rachel@jointresources.com

MARK G. KALPAKIS IRREVOCABLE TRUST

By *Mark G. Kalpakis*

~~R. Dean Williams~~ Mark G. Kalpakis  
Type or print name

Title Trustee

Date May 9, 2016

Tax ID or S.S. No. \_\_\_\_\_

R. DEAN WILLIAMS IRREVOCABLE TRUST

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

R. Dean Williams  
Type or print name

Title Trustee

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

MARK G. KALPAKIS IRREVOCABLE TRUST

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

R. Dean Williams  
Type or print name

Title Trustee

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

COG OPERATING LLC

\_\_\_\_\_  
\_\_\_\_\_

By Mona D. Ables

Mona D. Ables  
Type or print name

Title Vice President of Land

Date 1-25-17

Tax ID or S.S. No. \_\_\_\_\_

*sep*

R. DEAN WILLIAMS IRREVOCABLE TRUST

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

R. Dean Williams  
Type or print name

Title Trustee

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

MARK G. KALPAKIS IRREVOCABLE TRUST

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

R. Dean Williams  
Type or print name

Title Trustee

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

TOM M. RAGSDALE

*Kenneth Stangor*  
*Carmen McCall*

By T. M. Ragdale

Tom M. Ragdale  
Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

BLACK MOUNTAIN OPERATING, LLC

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

Rhett Bennett  
Type or print name

Title CEO

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

SFF PRODUCTION, LLC

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

Type or print name

Title \_\_\_\_\_

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

R. DEAN WILLIAMS IRREVOCABLE TRUST

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

R. Dean Williams  
Type or print name

Title Trustee

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

MARK G. KALPAKIS IRREVOCABLE TRUST

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

R. Dean Williams  
Type or print name

Title Trustee

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

COG OPERATING LLC

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

Mona D. Ables  
Type or print name

Title Vice President of Land

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

BLACK MOUNTAIN OPERATING, LLC

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

Rhett Bennett  
Type or print name

Title CEO

Date \_\_\_\_\_

Tax ID or S.S. No. \_\_\_\_\_

SFF PRODUCTION, LLC

\_\_\_\_\_  
\_\_\_\_\_

By \_\_\_\_\_

John R. Norwood  
Type or print name

Title VP

Date 7/8/2016

Tax ID or S.S. No. 26-1508250

ESTATE OF CONSTANCE B. CARTWRIGHT,  
DECEASED

\_\_\_\_\_  
\_\_\_\_\_

By Carroll F. Cartwright

Carroll L. Cartwright  
Type or print name

Title Executor

Date 3.10.17

Tax ID or S.S. No. 467-48-7808

\_\_\_\_\_

EXHIBIT "A"

Attached to and made a part of that certain Operating Agreement dated October 1, 2016, by and between MEWBOURNE OIL COMPANY as Operator and BLACK MOUNTAIN OPERATING, LLC, as Non-Operator.

1. LANDS SUBJECT TO THIS AGREEMENT:

Township 23 South, Range 34 East, N.M.P.M., Lea County, New Mexico  
Section 15: All,  
containing 640.00 acres, more or less.

2. DEPTH RESTRICTIONS AND EXCLUSIONS:

Surface to the base of the Wolfcamp formation.

3. ADDRESSES OF THE PARTIES:

Mewbourne Oil Company  
500 West Texas, Suite 1020  
Midland, Texas 79701  
Attn: Land Department  
Phone: (432) 682-3715  
Fax: (432) 685-4170

Tom M. Ragsdale  
400 N. Sam Houston Parkway East, Suite 601  
Houston, Texas 77060

Challenger Crude, Ltd.  
3525 Andrews Highway  
Midland, TX 79703  
Phone: (432) 694-3000  
Fax: (432) 681-7337

Viersen Oil & Gas Company  
7130 South Lewis Avenue, Suite 200  
Tulsa, Oklahoma 74136

Seeligson Oil Company, Ltd.  
808 Travis Street, Suite 2200  
Houston, Texas 77002

ICA Energy, Inc.  
P.O. Box 233  
Odessa, Texas 79760

Gerald W. Green  
414 W. Texas Street, Suite 317  
Midland, Texas 79701

Wildcat Energy, L.L.C.  
P.O. Box 13323  
Odessa, Texas 79768

Axis Energy Corporation  
P.O. Box 2107  
Roswell, New Mexico 88202

R. Dean Williams Irrevocable Trust;  
Mark G. Kalpakis Irrevocable Trust  
5416 Birchman Avenue  
Fort Worth, Texas 76107-5111

Texas Independent Exploration, Inc.  
6760 Portwest Drive  
Houston, Texas 77024

Black Mountain Operating, LLC  
500 Main Street, Suite 1200  
Fort Worth, Texas 76102

SFF Production, LLC  
P.O. Box 1015  
Midland, Texas 79702

Estate of Constance B. Cartwright, deceased  
435 E. 52<sup>nd</sup> Street  
New York, New York 10022  
Attn: Mr. Carroll Cartwright, III

4. PERCENTAGES OF THE PARTIES:

|   | <u>Initial, Substitute and Subsequent Wells</u> |
|---|---|
| Mewbourne Oil Company                       | 33.821772%                                      |
| Black Mountain Operating, LLC               | 24.781619%                                      |
| Challenger Crude, Ltd.                      | 12.463839%                                      |
| SFF Production, LLC                         | 7.975589%                                       |
| Tom M. Ragsdale                             | 6.837475%                                       |
| Seeligson Oil Co., Ltd.                     | 5.357624%                                       |
| Viersen Oil & Gas Co.                       | 2.500000%                                       |
| ICA Energy, Inc.                            | 2.279159%                                       |
| Wildcat Energy, L.L.C.                      | 2.160000%                                       |
| R. Dean Williams Irrevocable Trust          | 0.468792%                                       |
| Mark G. Kalpakis Irrevocable Trust          | 0.468792%                                       |
| Texas Independent Exploration, Inc.         | 0.316407%                                       |
| Gerald W. Green                             | 0.316406%                                       |
| Axis Energy Corporation                     | 0.231482%                                       |
| Estate of Constance B. Cartwright, deceased | <u>0.021044%</u>                                |
|   | 100.000000%                                     |

5. OIL AND GAS LEASES SUBJECT TO THIS AGREEMENT:

Lease No. 1:

Lease Serial No.: NM 13838.  
Dated: June 1, 1971.  
Lessor: United States of America.  
Lessee: E.M. McCarty.  
Recorded: Unrecorded.  
Lands: Township 23 South, Range 34 East, N.M.P.M., Lea County, New Mexico  
Section 15: NE/4, SW/4  
containing 320.00 acres, more or less.

Lease No. 2:

Lease Serial No.: NM 13641.  
Dated: May 1, 1971.  
Lessor: United States of America.  
Lessee: John L. Hada, Jr.  
Recorded: Book 285, Page 238, Lea County Oil and Gas Records.  
Lands: Township 23 South, Range 34 East, N.M.P.M., Lea County, New Mexico  
Section 15: NW/4, SE/4,  
containing 320.00 acres, more or less.

6. BURDENS ON PRODUCTION:

Burdens of Record.

End of Exhibit "A"

**MEWBOURNE OIL COMPANY**

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

Challenger Crude, Ltd.  
3525 Andrews Highway  
Midland, Texas 79703  
Attn: Mr. Mike Curry

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

**MEWBOURNE OIL COMPANY**

*Corey Mitchell*  
Corey Mitchell  
Landman

EXHIBIT 9

Company: *Challenger Crude Ltd*  
Name: *[Signature]*  
Title: *VP Land/Sec Council*

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

**MEWBOURNE OIL COMPANY**

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

SFF Production, LLC  
P.O. Box 1015  
Midland, Texas 79702  
Attn: Jon Morgan

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

**MEWBOURNE OIL COMPANY**

*Corey Mitchell*

Corey Mitchell  
Landman

Company: SFF Production LLC  
Name: Jon M. Morgan  
Title: Jon M. Morgan

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

**MEWBOURNE OIL COMPANY**

500 West Texas, Suite 1020

Midland, Texas 79701

Phone (432) 682-3715

Fax (432) 685-4170

January 18, 2017

COG Operating LLC  
600 W. Illinois Avenue  
One Concho Center  
Midland, Texas 79701  
Attn: Mrs. Rita Buress

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

*Corey Mitchell*

Corey Mitchell  
Landman

Company:

Name:

Title:

*COG Operating LLC*  
*CLAY KATEMAYO*  
*VP - New Mexico*  
*3-23-17*

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

**MEWBOURNE OIL COMPANY**

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 24, 2017

Tom M. Ragsdale  
12012 Wickchester Lane, Suite 410  
Houston, Texas 77079  
Attn: Mrs. Karen Stanford

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

**MEWBOURNE OIL COMPANY**

*Corey Mitchell*  
Corey Mitchell  
Landman

Company: TOL Co. RAGSDALE  
Name: Tom M. Ragsdale  
Title: \_\_\_\_\_

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

## MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

Seeligson Oil Co., Ltd.  
808 Travis Street, Suite 2200  
Houston, Texas 77002  
Attn: Mr. Arthur Seeligson

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

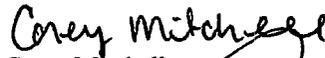
Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

  
Corey Mitchell  
Landman

Company:

Name:

Title:

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

## MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

Viersen Oil & Gas Co.  
P.O. Box 702708  
Tulsa, Oklahoma 74170  
Attn: Mr. J.J. Chisholm

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA") as well as Compulsory Pooling Order R-14251.

Mewbourne is seeking the support of the Non-Operators to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

*Corey Mitchell*

Corey Mitchell  
Landman

Company: Viersen Oil & Gas Co.

Name: *Chris R. Thompson* Chris R. Thompson

Title: President/COO

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

**MEWBOURNE OIL COMPANY**

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

ICA Energy, Inc.  
P.O. Box 233  
Odessa, Texas 79760  
Attn: Mr. Curtis Leonard

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

**MEWBOURNE OIL COMPANY**

*Corey Mitchell*

Corey Mitchell  
Landman

Company: ICA ENERGY INC.  
Name: CURTIS N. LEONARD  
Title: PRESIDENT / CEO

*Curtis Leonard*  
1-23-17

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

## MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

Wildcat Energy, L.L.C.  
P.O. Box 13323  
Odessa, Texas 79768  
Attn: Mr. Roger Becker

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

*Corey Mitchell*

Corey Mitchell  
Landman

Company: Wildcat Energy, LLC  
Name: K.C. Sehn  
Title: President

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

**MEWBOURNE OIL COMPANY**

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

Mark G. Kalpakis Irrevocable Trust  
5416 Birchman Avenue  
Fort Worth, Texas 76107  
Attn: Mrs. Rachelle Whiteman

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

**MEWBOURNE OIL COMPANY**

*Corey Mitchell*

Corey Mitchell  
Landman

Company: Mark G. Kalpakis Irrevocable Trust  
Name: *Mark G. Kalpakis*  
Title: Mark G. Kalpakis, Trustee

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

## MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

R. Dean Williams Irrevocable Trust  
5416 Birchman Avenue  
Fort Worth, Texas 76107  
Attn: Mrs. Rachelle Whiteman

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Ladies and Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

*Corey Mitchell*

Corey Mitchell  
Landman

Company: R. Dean Williams Irrevocable Trust  
Name: *R. Dean Williams*  
Title: R. Dean Williams, Trustee

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

# MEWBOURNE OIL COMPANY

500 West Texas, Suite 1020

Midland, Texas 79701

Phone (432) 682-3715

Fax (432) 685-4170

January 18, 2017

G.W. Green  
414 W. Texas Avenue, Suite 317  
Midland, Texas 79701

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Dear Mr. Green:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

MEWBOURNE OIL COMPANY

*Corey Mitchell*

Corey Mitchell  
Landman

Company: Gerald W. Green

Name: \_\_\_\_\_

Title: OWNER

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.

**MEWBOURNE OIL COMPANY**

500 West Texas, Suite 1020  
Midland, Texas 79701  
Phone (432) 682-3715  
Fax (432) 685-4170

January 18, 2017

Axis Energy Corporation  
P.O. Box 2107  
Roswell, New Mexico 88202  
Attn: Mr. Chad Barbe

Re: Operating Agreement dated February 1, 2016  
Section 15, Township 23 South, Range 34 East,  
Lea County, New Mexico  
*Mewbourne's Pronghorn 15 Prospect*

Gentlemen:

Mewbourne Oil Company ("Mewbourne") is preparing to file an application with the New Mexico Oil Conservation Division against Black Mountain Operating, LLC's ("BMO") applications concerning its proposed Duke Federal 10 #10H, Duke Federal 10 #18H and the Duke Federal 10 #26H. Mewbourne is the current Operator under that certain Joint Operating Agreement dated February 1, 2016 between Mewbourne Oil Company, as Operator and Challenger Crude, Ltd, et al, as Non-Operators covering the captioned Section 15 ("JOA").

Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

Should you have any questions regarding the above, please email me at [cmitchell@mewbourne.com](mailto:cmitchell@mewbourne.com) or call me at (432) 682-3715.

Sincerely,

**MEWBOURNE OIL COMPANY**

*Corey Mitchell*  
Corey Mitchell  
Landman.

Company: AXIS ENERGY CORP.  
Name: CHAD BARBE  
Title: PRESIDENT

Hereby supports Mewbourne Oil Company as Operator of Section 15, T23S, R34E, Lea County, NM.



P. O. BOX 233 • 700 N. GRANT, SUITE 400 • ODESSA, TEXAS 79760-0233 • (432) 580-5722 • FAX (432) 368-3490

CERTIFIED MAIL 70151730000136801467

January 24, 2017

Re: Notice of Intent to Drill  
Duke Federal 10 #10H, #18H & #26H  
Lands in Sections 10 & 15, T-23S, R34E  
Lea County, New Mexico

Mr. Luke Mildren, Vice President, Land  
Black Mountain Operating, LLC  
500 Main Street, Suite 1220  
Fort Worth, Texas 76102

Dear Mr. Mildren:

ICA Energy, Inc. is in receipt of your January 5, 2017, correspondence wherein you have advised in general terms the intentions of Black Mountain Operating, LLC ("BMO") to propose the drilling of the designated Duke Federal 10 #10H, #18H & #26H wells on the captioned lands.

ICA will postpone any response as to these proposed drill wells by BMO as Mewbourne Oil Company ("Mewbourne") is currently the operator under the joint operating agreement dated February 1, 2016, covering the captioned Section 15. Our review of your proposed joint operating agreement with your contract area stated covering the SW/4, W/2 SE/4 of referenced Section 10 and the E/2 W/2 and E/2 of the Section 15 appears to be incorrect as these lands do not appear to form a consistent contract unit area.

Mewbourne is also currently the operator and proceeding with drilling of the Pronghorn 15 B3DM Federal Com. #1H, which is the initial well under the referenced JOA, and it is ICA's understanding that BMO finally has elected to participate as non-operating working interest owner.

ICA believes that the current drilling of the Pronghorn well, the fact that Mewbourne has already established a development pattern for the Section and invested in infrastructure for the area with BMO and ICA as partners, negates any proposal from BMO at this time which would potentially lead to acreage being left out or "stranded" and, of course, waste being an issue because your plat and contract area does not conform to an established development pattern.

ICA has owned its leases in the subject area for over ten years and has been very pleased with the operations and partnership with Mewbourne in the past and at this time does not support any proposal for new drill wells under the terms and conditions of your January 5, 2017, correspondence.

EXHIBIT 10

Black Mountain Operating, LLC  
January 24, 2017  
Page 2

ICA has researched the history of BMO and finds that you have never drilled a vertical or horizontal well in the southeast New Mexico area and we believe that should BMO pursue proceedings with the NMOCD for any type of action on the proposed well, ICA would, of course, state these relevant facts before the Commission with respect to your lack of experience and operations in the area.

Finally, ICA has executed a separate letter supporting Mewbourne Oil Company with the NMOCD against BMO concerning its applications and will, of course, go on record as totally supporting Mewbourne's current drill prospect as well as the development of the area as to the protection of correlative rights and the prevention of waste in unnecessary drilling by an inexperienced operator in the area.

Should you wish to discuss this matter further you may contact me at the letterhead address or telephone number accordingly.

Sincerely,

ICA ENERGY, INC.



Curtis N. Leonard  
President

cc: Mr. Corey Mitchell  
Mewbourne Oil Company  
500 West Texas, Suite 1020  
Midland, TX 79701  
cmitchell@Mewbourne.com

**BLACK MOUNTAIN OPERATING, LLC** AFE#: 16007  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

Date: 12/8/2015 County/State: Lea, NM  
 Lease: Duke Federal 10 Well No. 26H  
 Surface Location: SEC 10, T-23S, R-34E  
 Proposed Depth: 18,567 MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

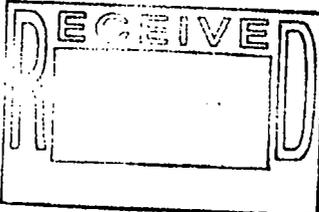
**Duke Federal 10 #26H - AFE**

| Masters Development AFE                            |  | AFE Amounts |
|--|--|-------------|
| Description  |  |             |
| SURVEY / LOCATION / PERMITS                        |  | \$150,000   |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          |  | \$20,000    |
| CONDUCTOR PIPE / WATER WELL / DRIVE PIPE           |  | \$25,000    |
| CONTRACT DRILLING - FOOTAGE & TURKEY               |  | \$0         |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU |  | \$726,000   |
| FUEL   |  | \$77,500    |
| MOB / DE-MOB                                       |  | \$82,500    |
| RENTAL TOOL & EQUIPMENT                            |  | \$175,000   |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  |  | \$45,000    |
| BITS   |  | \$120,500   |
| FISHING TOOLS & SERVICES                           |  | \$0         |
| PIPE INSPECTION & COATING                          |  | \$0         |
| BOP TESTING  |  | \$2,900     |
| MUD MATERIALS & CHEMICALS                          |  | \$225,000   |
| DISPOSAL / FLOWBACK                                |  | \$50,000    |
| WATER  |  | \$15,000    |
| CREW QUARTERS                                      |  | \$50,000    |
| SPECIAL SERVICES / DIRECTIONAL                     |  | \$275,000   |
| LOGGING / WIRELINE / PERFORATING                   |  | \$50,000    |
| DRILL STEM & PRODUCTION TESTS                      |  | \$0         |
| CORING & CORE ANALYSIS                             |  | \$0         |
| MUD LOGGING  |  | \$30,000    |
| CEMENT & CEMENT SERVICES                           |  | \$82,500    |
| PLUG, ABANDON & RESTORE                            |  | \$0         |
| TRUCKING & HAULING                                 |  | \$20,000    |
| COMPANY SUPERVISION                                |  | 0           |
| SUPERVISION - CONTRACT                             |  | \$70,500    |
| OVERHEAD   |  | \$0         |
| CASING CREWS / CONTRACT LABOR                      |  | \$25,000    |
| MISCELLANEOUS / OTHER DRILLING COSTS               |  | \$5,500     |
| DRILLING WELL INSURANCE                            |  | \$0         |
| CONTINGENCY  |  | \$232,250   |
| Intangible Drilling                                |  | \$2,654,750 |
| SURFACE CASING                                     |  | \$47,500    |
| INTERMEDIATE CASING                                |  | \$180,000   |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         |  | \$27,500    |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES        |  | \$15,000    |
| CONTINGENCY  |  | \$27,000    |
| Tangible Drilling                                  |  | \$297,000   |
| SURVEY / LOCATION / PERMITS                        |  | \$0         |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          |  | \$35,000    |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING     |  | \$2,990,000 |
| SAND CONTROL                                       |  | \$0         |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CASIN |  | \$30,000    |
| FUEL   |  | \$0         |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  |  | \$7,500     |
| SURFACE RENTAL TOOL & EQUIPMENT                    |  | \$275,000   |
| COIL TUBING / SCRUBBING                            |  | \$150,000   |
| BITS   |  | \$3,500     |
| FISHING TOOLS & SERVICES                           |  | \$0         |
| PIPE INSPECTION & COATING                          |  | \$0         |
| BOP TESTING  |  | \$0         |
| MUD MATERIALS & CHEMICALS                          |  | \$60,000    |
| DISPOSAL / FLOWBACK                                |  | \$50,000    |
| WATER  |  | \$200,000   |
| CREW QUARTERS                                      |  | \$0         |
| LOGGING / WIRELINE / PERFORATING                   |  | \$158,000   |
| CEMENT & CEMENTING SERVICES                        |  | \$65,250    |
| SLICK LINE   |  | \$0         |
| TRUCKING & HAULING                                 |  | \$15,000    |
| COMPANY SUPERVISION                                |  | \$0         |
| SUPERVISION - CONTRACT                             |  | \$12,800    |
| OVERHEAD   |  | \$0         |
| CASING CREWS / CONTRACT LABOR                      |  | \$29,000    |
| FLOWBACK / WELL TESTS                              |  | \$90,000    |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS           |  | \$72,500    |
| DRILLING WELL INSURANCE                            |  | \$0         |
| CONTINGENCY  |  | \$420,735   |
| Intangible Completion                              |  | \$4,628,065 |
| PRODUCTION CASING                                  |  | \$704,237   |
| TUBING   |  | \$60,000    |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         |  | \$35,500    |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT    |  | \$8,500     |
| CONTINGENCY  |  | \$30,824    |
| Tangible Completion                                |  | \$338,061   |
| GAS LIFT   |  | \$0         |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY              |  | \$0         |
| SUCKER RODS / POLISH RODS                          |  | \$0         |
| MISC FITTINGS & SUPPLIES                           |  | \$77,500    |
| SUBSURFACE EQUIPMENT                               |  | \$7,500     |
| PACKERS  |  | \$25,000    |
| FACILITY LABOR COST                                |  | \$77,500    |
| TANK BATTERY                                       |  | \$65,000    |
| SEPARATORS / HEATERS / TREATERS                    |  | \$60,000    |
| COMPRESSOR   |  | \$0         |
| METERING EQUIPMENT / LACT UNIT                     |  | \$9,750     |
| UTILITY EQUIPMENT                                  |  | \$0         |
| PIPELINES & CONNECTIONS                            |  | \$82,500    |
| COMPANY SUPERVISION                                |  | \$7,500     |
| CONTINGENCY  |  | \$41,225.0  |
| Facilities   |  | \$485,476   |

Total Estimated Well Cost \$8,279,371

Black Mountain Operating, LLC  
 Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_  
 Authorization Requested From: \_\_\_\_\_  
 PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PARTS OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BMOG LLC.  
 OWNERSHIP: \_\_\_\_\_ COST TO COMPLETE: \_\_\_\_\_  
 DATE: \_\_\_\_\_ PARTICIPANTS ESTIMATED COST: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

EXHIBIT //



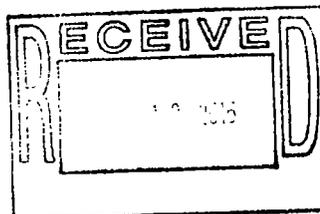
**BLACK MOUNTAIN OPERATING, LLC** AFE#: 16009  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

Date: 12/29/2016 County/State: Lea, NM  
 Lease: Duke Federal 10 Well No. 18H  
 Surface Location: SEC 10, T-23S, R-34E  
 Proposed Depth: 18,667' MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

**Duke Federal 10 #18H - AFE**

| Muders Development AFE                             |  | AFE Amounts |
|--|--|-------------|
| Description  |  |             |
| SURVEY / LOCATION / PERMITS                        |  | \$150,000   |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          |  | \$20,000    |
| CONDUCTOR PIPE / WATER WELL / DRIVE PIPE           |  | \$25,000    |
| CONTRACT DRILLING - FOOTAGE & TURKEY               |  | \$0         |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU |  | \$700,000   |
| FUEL   |  | \$77,500    |
| MOB / DE-MOB                                       |  | \$62,500    |
| RENTAL TOOL & EQUIPMENT                            |  | \$175,000   |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  |  | \$45,000    |
| BITS   |  | \$120,500   |
| FISHING TOOLS & SERVICES                           |  | \$0         |
| PIPE INSPECTION & COATING                          |  | \$0         |
| BOP TESTING  |  | \$2,500     |
| MUD MATERIALS & CHEMICALS                          |  | \$225,000   |
| DISPOSAL / FLOWBACK                                |  | \$50,000    |
| WATER  |  | \$15,000    |
| CREW QUARTERS                                      |  | \$50,000    |
| SPECIAL SERVICES / DIRECTIONAL                     |  | \$275,000   |
| LOGGING / WIRELINE / PERFORATING                   |  | \$50,000    |
| DRILL STEM & PRODUCTION TESTS                      |  | \$0         |
| CORING & CORE ANALYSIS                             |  | \$0         |
| MUD LOGGING  |  | \$30,000    |
| CEMENT & CEMENT SERVICES                           |  | \$82,500    |
| PLUG, ABANDON & RESTORE                            |  | \$0         |
| TRUCKING & HAULING                                 |  | \$20,000    |
| COMPANY SUPERVISION                                |  | 0           |
| SUPERVISION - CONTRACT                             |  | \$70,500    |
| OVERHEAD   |  | \$0         |
| CASING CREWS / CONTRACT LABOR                      |  | \$25,000    |
| MISCELLANEOUS / OTHER DRILLING COSTS               |  | \$5,500     |
| DRILLING WELL INSURANCE                            |  | \$0         |
| CONTINGENCY  |  | \$230,250   |
| Intangible Drilling                                |  | \$2,832,750 |
| SURFACE CASING                                     |  | \$47,500    |
| INTERMEDIATE CASING                                |  | \$180,000   |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         |  | \$27,500    |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES        |  | \$18,000    |
| CONTINGENCY  |  | \$27,000    |
| Tangible Drilling                                  |  | \$297,000   |
| SURVEY / LOCATION / PERMITS                        |  | \$0         |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          |  | \$35,000    |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING     |  | \$2,990,000 |
| SAND CONTROL                                       |  | \$0         |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CABIN |  | \$30,000    |
| FUEL   |  | \$0         |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  |  | \$7,500     |
| SURFACE RENTAL TOOL & EQUIPMENT                    |  | \$225,000   |
| COIL TUBING/SNUBBING                               |  | \$160,000   |
| BITS   |  | \$3,500     |
| FISHING TOOLS & SERVICES                           |  | \$0         |
| PIPE INSPECTION & COATING                          |  | \$0         |
| BOP TESTING  |  | \$0         |
| MUD MATERIALS & CHEMICALS                          |  | \$60,000    |
| DISPOSAL / FLOWBACK                                |  | \$50,000    |
| WATER  |  | \$200,000   |
| CREW QUARTERS                                      |  | \$0         |
| LOGGING / WIRELINE / PERFORATING                   |  | \$158,000   |
| CEMENT & CEMENTING SERVICES                        |  | \$83,250    |
| SLICK LINE   |  | \$0         |
| TRUCKING & HAULING                                 |  | \$15,000    |
| COMPANY SUPERVISION                                |  | \$0         |
| SUPERVISION - CONTRACT                             |  | \$12,600    |
| OVERHEAD   |  | \$0         |
| CASING CREWS / CONTRACT LABOR                      |  | \$25,000    |
| FLOWBACK / WELL TESTS                              |  | \$90,000    |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS           |  | \$72,500    |
| DRILLING WELL INSURANCE                            |  | \$0         |
| CONTINGENCY  |  | \$420,733   |
| Intangible Completion                              |  | \$4,828,088 |
| PRODUCTION CASING                                  |  | \$204,237   |
| TUBING   |  | \$60,000    |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         |  | \$35,500    |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT    |  | \$8,500     |
| CONTINGENCY  |  | \$30,824    |
| Tangible Completion                                |  | \$339,061   |
| GAS LIFT   |  | \$0         |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY              |  | \$0         |
| SUCKER RODS / POLISH RODS                          |  | \$0         |
| MISC FITTINGS & SUPPLIES                           |  | \$77,500    |
| SUBSURFACE EQUIPMENT                               |  | \$7,500     |
| PACKERS  |  | \$25,000    |
| FACILITY LABOR COST                                |  | \$77,500    |
| TANK BATTERY                                       |  | \$65,000    |
| SEPARATORS / HEATERS / TREATERS                    |  | \$60,000    |
| COMPRESSOR   |  | \$0         |
| METERING EQUIPMENT / LACT UNIT                     |  | \$8,750     |
| UTILITY EQUIPMENT                                  |  | \$0         |
| PIPELINES & CONNECTIONS                            |  | \$82,500    |
| COMPANY SUPERVISION                                |  | \$7,500     |
| CONTINGENCY  |  | \$41,225.0  |
| Facilities   |  | \$453,476   |
| Total Estimated Well Cost                          |  | \$8,250,371 |

Black Mountain Operating, LLC  
 Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_  
 Authorization Requested From: \_\_\_\_\_  
 PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PARTE OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BMOG LLC  
 OWNERSHIP: \_\_\_\_\_ COST TO COMPLETE: \_\_\_\_\_  
 DATE: \_\_\_\_\_ PARTICIPANTS ESTIMATED COST  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_



**BLACK MOUNTAIN OPERATING, LLC** AFE#: 16008  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

Date: 12/29/2018 County/State: Lea, NM  
 Lease: Duke Federal 10 Well No: 10H  
 Surface Location: SEC 10 T-23S R-34E  
 Proposed Depth: 18,567 MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

**Duke Federal 10 #10H - AFE**

Modern Development AFE

| Description  | AFE Amounts |
|--|-------------|
| SURVEY / LOCATION / PERMITS                        | \$150,000   |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          | \$20,000    |
| CONDUCTOR PIPE / WATER WELL / DRIVE PIPE           | \$29,000    |
| CONTRACT DRILLING - FOOTAGE & TURKEY               | \$0         |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU | \$710,000   |
| FUEL   | \$77,500    |
| MOB / DE-MOB                                       | \$82,500    |
| RENTAL TOOL & EQUIPMENT                            | \$175,000   |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  | \$45,000    |
| BITS   | \$120,500   |
| FISHING TOOLS & SERVICES                           | \$0         |
| PIPE INSPECTION & COATING                          | \$0         |
| BOP TESTING  | \$2,500     |
| MUD MATERIALS & CHEMICALS                          | \$225,000   |
| DISPOSAL / FLOWBACK                                | \$50,000    |
| WATER  | \$15,000    |
| CREW QUARTERS                                      | \$50,000    |
| SPECIAL SERVICES / DIRECTIONAL                     | \$275,000   |
| LOGGING / WIRELINE / PERFORATING                   | \$30,000    |
| DRILL STEM & PRODUCTION TESTS                      | \$0         |
| CORING & CORE ANALYSIS                             | \$0         |
| MUD LOGGING  | \$30,000    |
| CEMENT & CEMENT SERVICES                           | \$82,500    |
| PLUG, ABANDON & RESTORE                            | \$0         |
| TRUCKING & HAULING                                 | \$20,000    |
| COMPANY SUPERVISION                                | 0           |
| SUPERVISION - CONTRACT                             | \$70,500    |
| OVERHEAD   | \$0         |
| CASING CREWS / CONTRACT LABOR                      | \$25,000    |
| MISCELLANEOUS / OTHER DRILLING COSTS               | \$5,500     |
| DRILLING WELL INSURANCE                            | \$0         |
| CONTINGENCY  | \$231,250   |
| Intangible Drilling                                | \$2,843,750 |
| SURFACE CASING                                     | \$47,500    |
| INTERMEDIATE CASING                                | \$180,000   |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         | \$27,500    |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES        | \$15,000    |
| CONTINGENCY  | \$27,000    |
| Tangible Drilling                                  | \$297,000   |
| SURVEY / LOCATION / PERMITS                        | \$0         |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          | \$35,000    |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING     | \$2,990,000 |
| SAND CONTROL                                       | \$0         |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CASIN | \$30,000    |
| FUEL   | \$0         |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  | \$7,500     |
| SURFACE RENTAL TOOL & EQUIPMENT                    | \$225,000   |
| COOL DOWN / DEBRASSING                             | \$150,000   |
| BITS   | \$3,500     |
| FISHING TOOLS & SERVICES                           | \$0         |
| PIPE INSPECTION & COATING                          | \$0         |
| BOP TESTING  | \$0         |
| MUD MATERIALS & CHEMICALS                          | \$60,000    |
| DISPOSAL / FLOWBACK                                | \$50,000    |
| WATER  | \$200,000   |
| CREW QUARTERS                                      | \$0         |
| LOGGING / WIRELINE / PERFORATING                   | \$150,000   |
| CEMENT & CEMENTING SERVICES                        | \$65,250    |
| SLICK LINE   | \$0         |
| TRUCKING & HAULING                                 | \$15,000    |
| COMPANY SUPERVISION                                | \$0         |
| SUPERVISION - CONTRACT                             | \$12,600    |
| OVERHEAD   | \$0         |
| CASING CREWS / CONTRACT LABOR                      | \$25,000    |
| FLOWBACK / WELL TESTS                              | \$90,000    |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS           | \$72,500    |
| DRILLING WELL INSURANCE                            | \$0         |
| CONTINGENCY  | \$420,735   |
| Intangible Completion                              | \$4,828,085 |
| PRODUCTION CASING                                  | \$204,237   |
| TUBING   | \$60,000    |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         | \$35,500    |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT    | \$8,500     |
| CONTINGENCY  | \$30,824    |
| Tangible Completion                                | \$339,061   |
| GAS LIFT   | \$0         |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY              | \$0         |
| SUCKER RODS / POLISH RODS                          | \$0         |
| MISC FITTINGS & SUPPLIES                           | \$77,500    |
| SUBSURFACE EQUIPMENT                               | \$7,500     |
| PACKERS  | \$25,000    |
| FACILITY LABOR COST                                | \$77,500    |
| TANK BATTERY                                       | \$65,000    |
| SEPARATORS / HEATERS / TREATERS                    | \$60,000    |
| COMPRESSOR   | \$0         |
| METERING EQUIPMENT / LACT UNIT                     | \$9,750     |
| UTILITY EQUIPMENT                                  | \$0         |
| PIPELINES & CONNECTIONS                            | \$82,500    |
| COMPANY SUPERVISION                                | \$7,500     |
| CONTINGENCY  | \$41,225.0  |
| Facilities   | \$453,478   |

Total Estimated Well Cost \$8,261,371

Black Mountain Operating, LLC

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

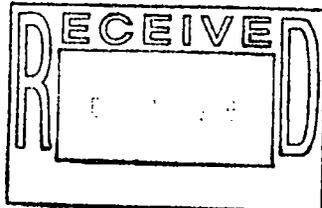
Authorization Requested From: \_\_\_\_\_

PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PARTS OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BMOG LLC

OWNERSHIP: \_\_\_\_\_ COST TO COMPLETE: \_\_\_\_\_

DATE: \_\_\_\_\_ PARTICIPANTS ESTIMATED COST: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_



8. BMO's AFE of \$8.25MM for a 1.5 mile lateral is more than 10% higher than 1.5 x MOC's AFE for a 1 mile lateral, implying no cost savings for drilling the extended lateral.

a. Based on BMO's AFE, MOC and all non-operated working interest owners under the full section JOA will have worse economics under BMO's proposal compared to the 1 mile laterals proposed by MOC.

EXHIBIT

12

**BLACK MOUNTAIN OPERATING, LLC** AFE#: 16007  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

Date: 12/2/2018 County/State: Lea, NM  
 Lease: Duke Federal 10 Well No. 26H  
 Surface Location: SEC 10, T-23S, R-34E  
 Proposed Depth: 18,587 MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

**Duke Federal 10 #26H - AFE**

| Maders Development AFE                              | AFE Amounts        |
|---|--------------------|
| Description   | AFE Amounts        |
| SURVEY / LOCATION / PERMITS                         | \$150,000          |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES           | \$70,000           |
| CONDUCTOR PIPE / WATER WELL / DRIVE PIPE            | \$25,000           |
| CONTRACT DRILLING - FOOTAGE & TURNKEY               | \$0                |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU) | \$728,000          |
| FUEL  | \$77,500           |
| MOB / DE-MOB  | \$82,500           |
| RENTAL TOOL & EQUIPMENT                             | \$175,000          |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                   | \$45,000           |
| BITS  | \$120,500          |
| FISHING TOOLS & SERVICES                            | \$0                |
| PIPE INSPECTION & COATING                           | \$0                |
| BOP TESTING   | \$2,500            |
| MUD MATERIALS & CHEMICALS                           | \$225,000          |
| DISPOSAL / FLOWBACK                                 | \$50,000           |
| WATER   | \$15,000           |
| CREW QUARTERS                                       | \$50,000           |
| SPECIAL SERVICES / DIRECTIONAL                      | \$275,000          |
| LOGGING / WIRELINE / PERFORATING                    | \$50,000           |
| DRILL STEM & PRODUCTION TESTS                       | \$0                |
| CORING & CORE ANALYSIS                              | \$0                |
| MUD LOGGING   | \$30,000           |
| CEMENT & CEMENT SERVICES                            | \$82,500           |
| PLUG, ABANDON & RESTORE                             | \$0                |
| TRUCKING & HAULING                                  | \$20,000           |
| COMPANY SUPERVISION                                 | \$0                |
| SUPERVISION - CONTRACT                              | \$70,500           |
| OVERHEAD  | \$0                |
| CASING CREWS / CONTRACT LABOR                       | \$25,000           |
| MISCELLANEOUS / OTHER DRILLING COSTS                | \$5,500            |
| DRILLING WELL INSURANCE                             | \$0                |
| <b>Intangible Drilling</b>                          | <b>\$2,322,600</b> |
| SURFACE CASING                                      | \$47,500           |
| INTERMEDIATE CASING                                 | \$180,000          |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE          | \$27,500           |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES         | \$15,000           |
| <b>Tangible Drilling</b>                            | <b>\$270,000</b>   |
| SURVEY / LOCATION / PERMITS                         | \$0                |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES           | \$35,000           |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING      | \$2,690,000        |
| SAND CONTROL  | \$0                |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CASIN  | \$30,000           |
| FUEL  | \$0                |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                   | \$7,500            |
| SURFACE RENTAL TOOL & EQUIPMENT                     | \$225,000          |
| COIL TUBING/SNUBBING                                | \$150,000          |
| BITS  | \$3,500            |
| FISHING TOOLS & SERVICES                            | \$0                |
| PIPE INSPECTION & COATING                           | \$0                |
| BOP TESTING   | \$0                |
| MUD MATERIALS & CHEMICALS                           | \$80,000           |
| DISPOSAL / FLOWBACK                                 | \$50,000           |
| WATER   | \$200,000          |
| CREW QUARTERS                                       | \$0                |
| LOGGING / WIRELINE / PERFORATING                    | \$158,000          |
| CEMENT & CEMENTING SERVICES                         | \$85,250           |
| SLICK LINE  | \$0                |
| TRUCKING & HAULING                                  | \$13,000           |
| COMPANY SUPERVISION                                 | \$0                |
| SUPERVISION - CONTRACT                              | \$12,800           |
| OVERHEAD  | \$0                |
| CASING CREWS / CONTRACT LABOR                       | \$75,000           |
| FLOWBACK / WELL TESTS                               | \$90,000           |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS            | \$72,500           |
| DRILLING WELL INSURANCE                             | \$0                |
| <b>Intangible Completion</b>                        | <b>\$3,807,350</b> |
| PRODUCTION CASING                                   | \$204,237          |
| TUBING  | \$80,000           |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE          | \$35,500           |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT     | \$6,500            |
| <b>Tangible Completion</b>                          | <b>\$308,237</b>   |
| GAS LIFT  | \$0                |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY               | \$0                |
| SUCKER RODS / POLISH RODS                           | \$0                |
| MISC FITTINGS & SUPPLIES                            | \$77,500           |
| SUBSURFACE EQUIPMENT                                | \$7,500            |
| PACKERS   | \$25,000           |
| FACILITY LABOR COST                                 | \$77,500           |
| TANK BATTERY  | \$85,000           |
| SEPARATORS / HEATERS / TREATERS                     | \$80,000           |
| COMPRESSOR  | \$0                |
| METERING EQUIPMENT / LACT UNIT                      | \$9,750            |
| UTILITY EQUIPMENT                                   | \$0                |
| PIPELINES & CONNECTIONS                             | \$82,500           |
| COMPANY SUPERVISION                                 | \$7,500            |
| <b>Facilities</b>                                   | <b>\$412,250</b>   |
| <b>Total Estimated Well Cost</b>                    | <b>\$7,220,337</b> |

Black Mountain Operating, LLC

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Authorization Requested From \_\_\_\_\_

PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PART OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BLACK MOUNTAIN OPERATING, LLC

OWNERSHIP: \_\_\_\_\_ COST TO COMPLETE: \_\_\_\_\_  
 DATE: \_\_\_\_\_ PARTICIPANTS ESTIMATED COST: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

EXHIBIT 13

**BLACK MOUNTAIN OPERATING, LLC** **AFE#: 16009**  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

Date: 12/2/2018 County/State: Lea, NM  
 Lease: Duke Federal 10 Well No. 18H  
 Surface Location: SEC 10, T-23S, R-34E  
 Proposed Depth: 19,567 MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

**Duke Federal 10 #18H - AFE**

| Madera Development AFE                             |  | AFE Amounts        |
|--|--|--------------------|
| Description  |  | Amount             |
| SURVEY / LOCATION / PERMITS                        |  | \$150,000          |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          |  | \$20,000           |
| CONDUCTOR PIPE / WATER WELL / DRIVE PIPE           |  | \$25,000           |
| CONTRACT DRILLING - FOOTAGE & TURNKEY              |  | \$0                |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU |  | \$706,000          |
| FUEL   |  | \$77,500           |
| MOB / DE-MOB                                       |  | \$42,500           |
| RENTAL TOOL & EQUIPMENT                            |  | \$175,000          |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  |  | \$45,000           |
| BITS   |  | \$120,500          |
| FISHING TOOLS & SERVICES                           |  | \$0                |
| PIPE INSPECTION & COATING                          |  | \$0                |
| BOP TESTING  |  | \$2,500            |
| MUD MATERIALS & CHEMICALS                          |  | \$325,000          |
| DISPOSAL / FLOWBACK                                |  | \$50,000           |
| WATER  |  | \$15,000           |
| CREW QUARTERS                                      |  | \$50,000           |
| SPECIAL SERVICES / DIRECTIONAL                     |  | \$275,000          |
| LOGGING / WIRELINE / PERFORATING                   |  | \$50,000           |
| DRILL STEM & PRODUCTION TESTS                      |  | \$0                |
| CORING & CORE ANALYSIS                             |  | \$0                |
| MUD LOGGING  |  | \$30,000           |
| CEMENT & CEMENT SERVICES                           |  | \$82,500           |
| PLUG, ABANDON & RESTORE                            |  | \$0                |
| TRUCKING & HAULING                                 |  | \$20,000           |
| COMPANY SUPERVISION                                |  | \$0                |
| SUPERVISION - CONTRACT                             |  | \$70,500           |
| OVERHEAD   |  | \$0                |
| CASING CREWS / CONTRACT LABOR                      |  | \$25,000           |
| MISCELLANEOUS / OTHER DRILLING COSTS               |  | \$5,500            |
| DRILLING WELL INSURANCE                            |  | \$0                |
| <b>Intangible Drilling</b>                         |  | <b>\$2,302,600</b> |
| SURFACE CASING                                     |  | \$47,500           |
| INTERMEDIATE CASING                                |  | \$180,000          |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         |  | \$27,500           |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES        |  | \$15,000           |
| <b>Tangible Drilling</b>                           |  | <b>\$270,000</b>   |
| SURVEY / LOCATION / PERMITS                        |  | \$0                |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          |  | \$35,000           |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING     |  | \$2,890,000        |
| SAND CONTROL                                       |  | \$0                |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CASIN |  | \$30,000           |
| FUEL   |  | \$0                |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  |  | \$7,500            |
| SURFACE RENTAL TOOL & EQUIPMENT                    |  | \$225,000          |
| COIL TUBING/SNUBBING                               |  | \$150,000          |
| BITS   |  | \$3,500            |
| FISHING TOOLS & SERVICES                           |  | \$0                |
| PIPE INSPECTION & COATING                          |  | \$0                |
| BOP TESTING  |  | \$0                |
| MUD MATERIALS & CHEMICALS                          |  | \$80,000           |
| DISPOSAL / FLOWBACK                                |  | \$50,000           |
| WATER  |  | \$200,000          |
| CREW QUARTERS                                      |  | \$0                |
| LOGGING / WIRELINE / PERFORATING                   |  | \$156,000          |
| CEMENT & CEMENTING SERVICES                        |  | \$85,250           |
| SLICK LINE   |  | \$0                |
| TRUCKING & HAULING                                 |  | \$15,000           |
| COMPANY SUPERVISION                                |  | \$0                |
| SUPERVISION - CONTRACT                             |  | \$12,600           |
| OVERHEAD   |  | \$0                |
| CASING CREWS / CONTRACT LABOR                      |  | \$25,000           |
| FLOWBACK / WELL TESTS                              |  | \$90,000           |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS           |  | \$72,500           |
| DRILLING WELL INSURANCE                            |  | \$0                |
| <b>Intangible Completion</b>                       |  | <b>\$3,897,360</b> |
| PRODUCTION CASING                                  |  | \$204,237          |
| TUBING   |  | \$80,000           |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         |  | \$35,500           |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT    |  | \$6,500            |
| <b>Tangible Completion</b>                         |  | <b>\$306,237</b>   |
| GAS LIFT   |  | \$0                |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY              |  | \$0                |
| SUCKER RODS / POLISH RODS                          |  | \$0                |
| MISC FITTINGS & SUPPLIES                           |  | \$77,500           |
| SUBSURFACE EQUIPMENT                               |  | \$7,500            |
| PACKERS  |  | \$25,000           |
| FACILITY LABOR COST                                |  | \$77,500           |
| TANK BATTERY                                       |  | \$65,000           |
| SEPARATORS / HEATERS / TREATERS                    |  | \$60,000           |
| COMPRESSOR   |  | \$0                |
| METERING EQUIPMENT / LACT UNIT                     |  | \$8,750            |
| UTILITY EQUIPMENT                                  |  | \$0                |
| PIPELINES & CONNECTIONS                            |  | \$82,500           |
| COMPANY SUPERVISION                                |  | \$7,500            |
| <b>Facilities</b>                                  |  | <b>\$412,250</b>   |
| <b>Total Estimated Well Cost</b>                   |  | <b>\$7,200,337</b> |

Black Mountain Operating, LLC  
 Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Authorization Requested From  
 PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PART OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BLACK MOUNTAIN OPERATING, LLC

OWNERSHIP: \_\_\_\_\_ COST TO COMPLETE: \_\_\_\_\_  
 DATE: \_\_\_\_\_ PARTICIPANTS ESTIMATED COST  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_

**BLACK MOUNTAIN OPERATING, LLC  
AUTHORIZATION FOR EXPENDITURE  
DRILL & COMPLETE NEW WELL**

**AFE # 16008**

Date: 12/22/16 County/State: Lea, NM  
 Lessee: Duke Federal 10 Well No: 10H  
 Surface Location: SEC 10, T-23S, R-34E  
 Proposed Depth: 18,567 MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

**Duke Federal 10 #10H - AFE**

**Masters Development AFE**

| Description  | AFE Amounts        |
|--|--------------------|
| SURVEY / LOCATION / PERMITS                        | \$150,000          |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          | \$20,000           |
| CONDUCTOR PIPE / WATER WELL / DRIVE PIPE           | \$25,000           |
| CONTRACT DRILLING - FOOTAGE & TURNKEY              | \$0                |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU | \$716,000          |
| FUEL   | \$77,500           |
| MOB / DE-MOB                                       | \$82,500           |
| RENTAL TOOL & EQUIPMENT                            | \$175,000          |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  | \$45,000           |
| BITS   | \$120,500          |
| FISHING TOOLS & SERVICES                           | \$0                |
| PIPE INSPECTION & COATING                          | \$0                |
| BOP TESTING  | \$2,500            |
| MUD MATERIALS & CHEMICALS                          | \$226,000          |
| DISPOSAL / FLOWBACK                                | \$50,000           |
| WATER  | \$15,000           |
| CREW QUARTERS                                      | \$50,000           |
| SPECIAL SERVICES / DIRECTIONAL                     | \$276,000          |
| LOGGING / WIRELINE / PERFORATING                   | \$50,000           |
| DRILL STEM & PRODUCTION TESTS                      | \$0                |
| CORING & CORE ANALYSIS                             | \$0                |
| MUD LOGGING  | \$30,000           |
| CEMENT & CEMENT SERVICES                           | \$82,500           |
| PLUG, ABANDON & RESTORE                            | \$0                |
| TRUCKING & HAULING                                 | \$20,000           |
| COMPANY SUPERVISION                                | \$0                |
| SUPERVISION - CONTRACT                             | \$70,500           |
| OVERHEAD   | \$0                |
| CASING CREWS / CONTRACT LABOR                      | \$25,000           |
| MISCELLANEOUS / OTHER DRILLING COSTS               | \$5,000            |
| DRILLING WELL INSURANCE                            | \$0                |
| <b>Intangible Drilling</b>                         | <b>\$2,312,600</b> |
| SURFACE CASING                                     | \$47,600           |
| INTERMEDIATE CASING                                | \$180,000          |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         | \$27,500           |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES        | \$15,000           |
| <b>Tangible Drilling</b>                           | <b>\$270,000</b>   |
| SURVEY / LOCATION / PERMITS                        | \$0                |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          | \$36,000           |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING     | \$2,680,000        |
| SAND CONTROL                                       | \$0                |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CASIN | \$30,000           |
| FUEL   | \$0                |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  | \$7,500            |
| SURFACE RENTAL TOOL & EQUIPMENT                    | \$225,000          |
| COIL TUBINGS/SNUBBING                              | \$150,000          |
| BITS   | \$3,500            |
| FISHING TOOLS & SERVICES                           | \$0                |
| PIPE INSPECTION & COATING                          | \$0                |
| BOP TESTING  | \$0                |
| MUD MATERIALS & CHEMICALS                          | \$60,000           |
| DISPOSAL / FLOWBACK                                | \$50,000           |
| WATER  | \$200,000          |
| CREW QUARTERS                                      | \$0                |
| LOGGING / WIRELINE / PERFORATING                   | \$156,000          |
| CEMENT & CEMENTING SERVICES                        | \$85,250           |
| SLICK LINE   | \$0                |
| TRUCKING & HAULING                                 | \$15,000           |
| COMPANY SUPERVISION                                | \$0                |
| SUPERVISION - CONTRACT                             | \$12,600           |
| OVERHEAD   | \$0                |
| CASING CREWS / CONTRACT LABOR                      | \$25,000           |
| FLOWBACK / WELL TESTS                              | \$80,000           |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS           | \$72,500           |
| DRILLING WELL INSURANCE                            | \$0                |
| <b>Intangible Completion</b>                       | <b>\$3,907,850</b> |
| PRODUCTION CASING                                  | \$204,237          |
| TUBING   | \$80,000           |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE         | \$35,500           |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT    | \$8,500            |
| <b>Tangible Completion</b>                         | <b>\$308,237</b>   |
| GAS LIFT   | \$0                |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY              | \$0                |
| SUCKER RODS / POLISH RODS                          | \$0                |
| MISC FITTINGS & SUPPLIES                           | \$77,500           |
| SUBSURFACE EQUIPMENT                               | \$7,500            |
| PACKERS  | \$25,000           |
| FACILITY LABOR COST                                | \$77,500           |
| TANK BATTERY                                       | \$85,000           |
| SEPARATORS / HEATERS / TREATERS                    | \$60,000           |
| COMPRESSOR   | \$0                |
| METERING EQUIPMENT / LACT UNIT                     | \$9,750            |
| UTILITY EQUIPMENT                                  | \$0                |
| PIPELINES & CONNECTIONS                            | \$62,500           |
| COMPANY SUPERVISION                                | \$7,500            |
| <b>Facilities</b>                                  | <b>\$412,250</b>   |
| <b>Total Estimated Well Cost</b>                   | <b>\$7,310,337</b> |

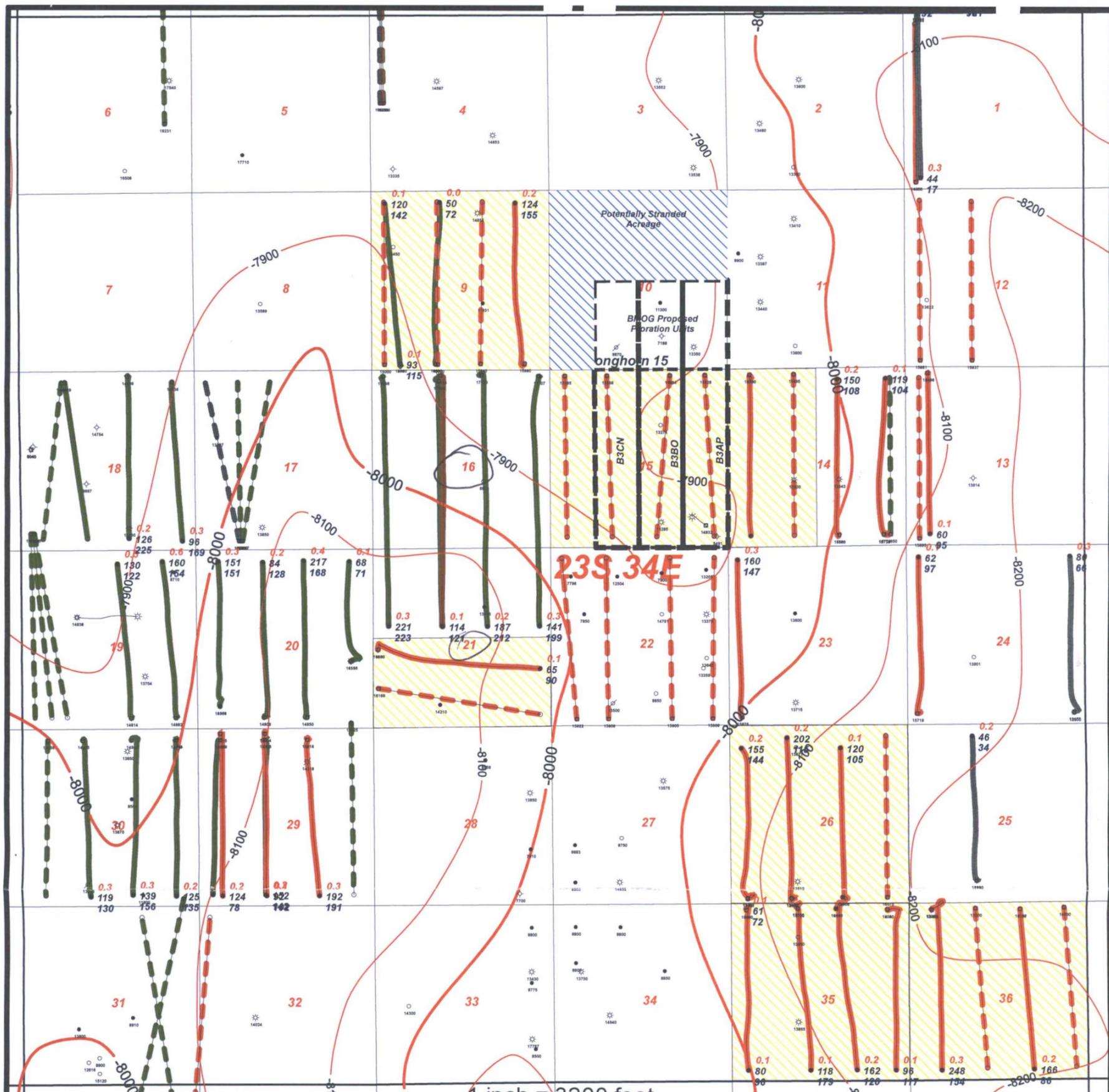
Black Mountain Operating, LLC

Approved By: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Authorization Requested From:

PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PART OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BLACK MOUNTAIN OPERATING, LLC

OWNER/SHIP: \_\_\_\_\_ COST TO COMPLETE: \_\_\_\_\_  
 DATE: \_\_\_\_\_ PARTICIPANTS ESTIMATED COST: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_



**Horizontal Activity**

- Delaware
- Avalon Shale
- 2<sup>nd</sup> BSPG Sand
- 3<sup>rd</sup> BSPG Sand
- Proposed:
- Drilled:

1 inch = 3200 feet

3200 0 3200 6400 ft



**Mewbourne  
Operated  
Acreage**

Gross Sd  
TD ● Cum BCF  
● Cum MBO  
● Cum MBW

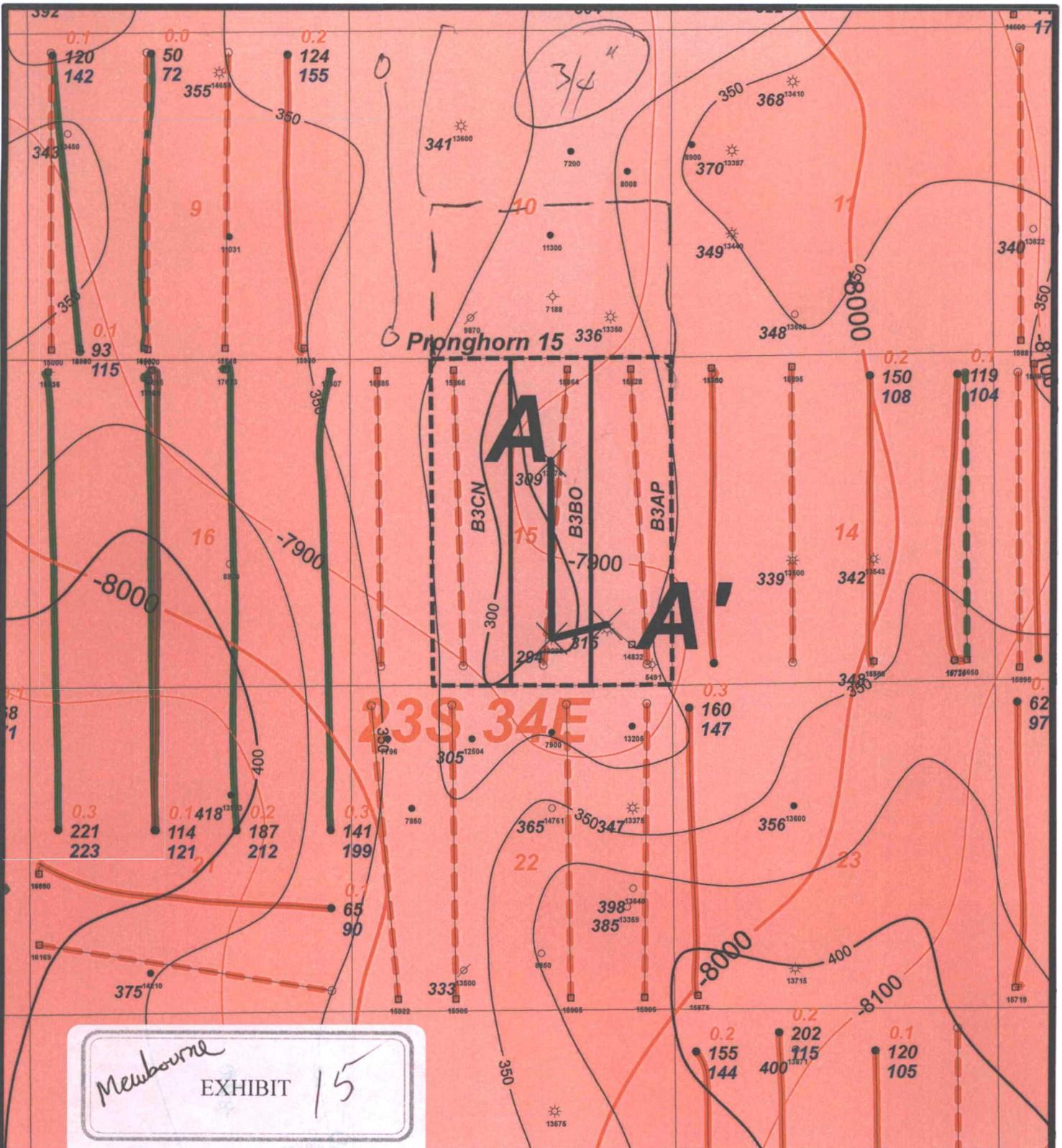
**MOC Mewbourne Oil Company**

**Pronghorn 15  
Regional Horizontal Activity Map  
Structure Top of WFMP (C.I. 100')**

|            |                    |            |
|------------|--------------------|------------|
| 12/22/2016 | Lea County         | New Mexico |
|            | 1 Inch = 3200 Feet | N.Cless    |

EXHIBIT  
14

14 horizontal wells

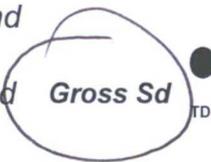


1 inch = 2250 feet

Horizontal Activity



- Delaware
- 2<sup>nd</sup> BSPG Sand
- 3<sup>rd</sup> BSPG Sand
- Proposed:
- Drilled:



Cum BCF  
Cum MBO  
Cum MBW

**MOC Mewbourne Oil Company**

**Pronghorn 15**  
**Gross Isopach 3<sup>rd</sup> BSPG Sd (C.I. 25')**  
**Structure Top of WFMP (C.I. 100')**

|                           |                    |            |
|---------------------------|--------------------|------------|
| 12/20/2016                | Lea County         | New Mexico |
| Wells <5000' Filtered Out | 1 Inch = 2250 Feet | N.C. Class |

A

300252688700  
ESTORIL PROD CORP  
ADOBE FEDERAL 1  
Reference=KB  
Datum=3428.00  
1650 FNL/1980 FEL  
TWP: - Range: - Sec.

0.5 miles

300252688800  
ESTORIL PROD CORP  
BELCO FEDERAL 1  
Reference=KB  
Datum=3447.00  
760 FSL/1980 FEL  
TWP: - Range: - Sec.

0.2 miles

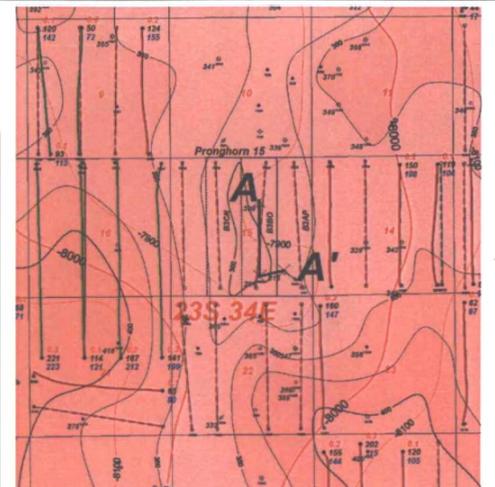
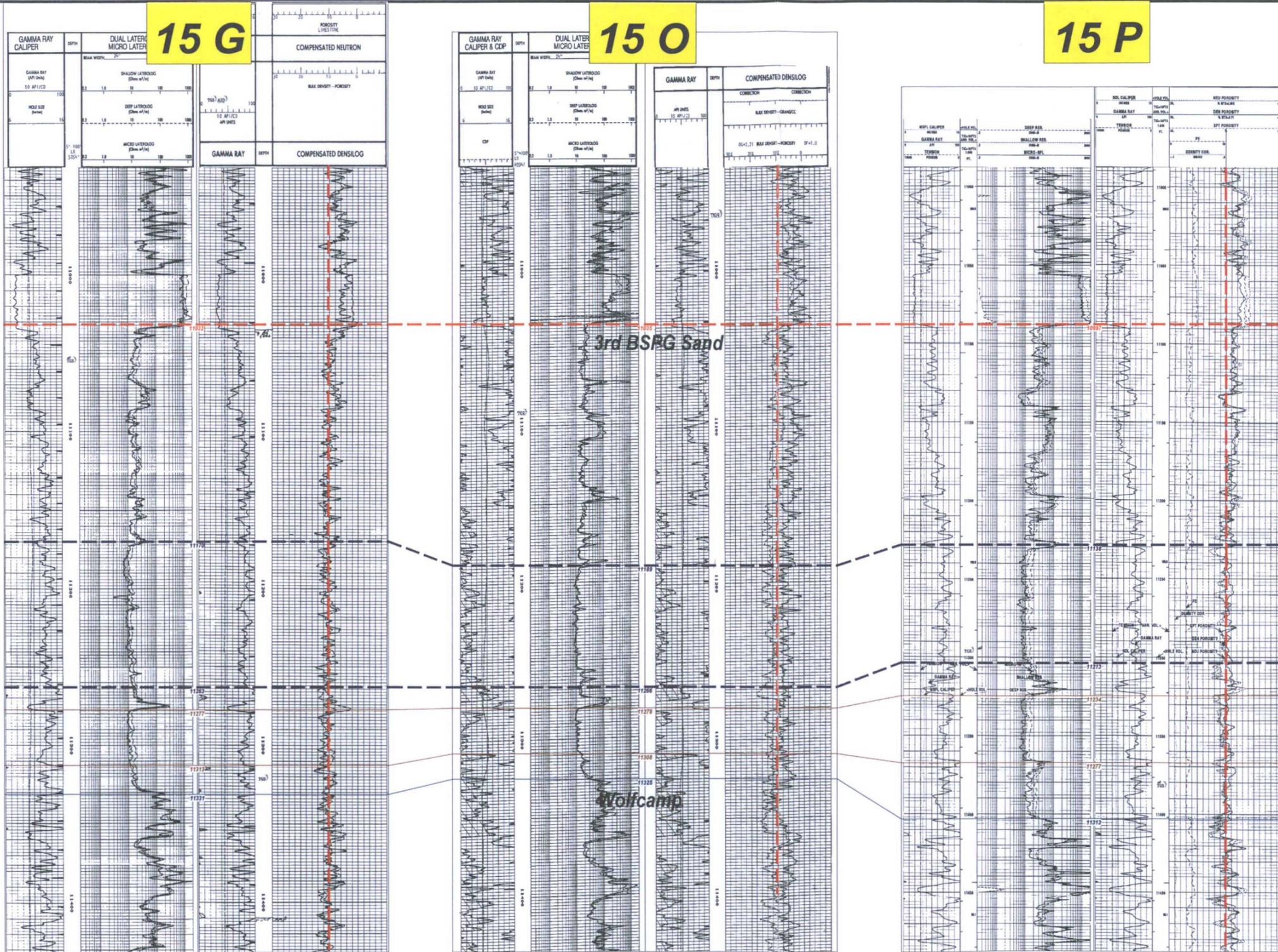
300253677800  
DEVON ENERGY PROD  
MAD DOG 15 FEDERAL 1  
Reference=KB  
Datum=3431.00  
660 FSL 660 FEL  
TWP: 23 S - Range: 34 E - Sec. 15

A'

15 G

15 O

15 P



Gross Isopach 3rd BSPG Sd (C.I. 25')  
Structure Top of WFMP (C.I. 100')

Horizontal Target

EXHIBIT 16

Pronghorn 15  
3rd BSPG A-A'

TD=13274.00  
Cum Oil All Zones: 132 bbls  
Cum Gas All Zones: 8.5 BCF  
Cum Water All Zones: 2.2 bbls

TD=13285.00  
Cum Oil All Zones: 135 bbls  
Cum Gas All Zones: 6.1 BCF  
Cum Water All Zones: 130 bbls

TD=14832.00  
Cum Oil All Zones: 265 bbls  
Cum Gas All Zones: 0.9 BCF  
Cum Water All Zones: 4265 bbls

**Pronghorn 15 Horizontal Bone Spring Production Table**

| Well Name                 | Operator     | API        | Location        | BSPG Completion Date | Cum Oil (mbo)        | Cum Gas (bcf) | Cum Water (mbw) | BSPG Zone   |
|---------------------------|--------------|------------|-----------------|----------------------|----------------------|---------------|-----------------|-------------|
| Antelope 9 B3PA St Com 1H | Mewbourne    | 3002542651 | 9PA/23S/34E     | 9/20/2015            | 124                  | 2.0           | 155             | 3rd BSPG Sd |
| Antelope 9 B2NC St Com 1H | Mewbourne    | 3002542650 | 9NC/23S/34E     | 8/13/2016            | 50                   | 0.0           | 72              | 2nd BSPG Sd |
| Antelope 9 B2MD St Com 1H | Mewbourne    | 3002542366 | 9MD/23S/34E     | 6/13/2015            | NA                   | NA            | NA              | 2nd BSPG Sd |
| Banter State Com 4H       | COG          | 3002542519 | 13DM/23S/34E    | 1/31/2016            | 60                   | 0.1           | 95              | 3rd BSPG Sd |
| Caza Ridge 14 State 4H    | Caza         | 3002540936 | 14PA/23S/34E    | 8/6/2013             | 119                  | 0.2           | 108             | 3rd BSPG Sd |
| Caza Ridge 14 State 3H    | Caza         | 3002540621 | 14OB/23S/34E    | 10/31/2012           | 150                  | 0.2           | 108             | 3rd BSPG Sd |
| Oryx 14 B3DM Fed Com 1H   | Mewbourne    | 3002543424 | 14DM/23S/34E    | 12/3/2016            | No Public Production |               |                 | 3rd BSPG Sd |
| Gettysburg St Com 4H      | COG          | 3002541929 | 16-21AH/23S/34E | 12/10/2014           | 141                  | 0.3           | 199             | 2nd BSPG Sd |
| Gettysburg St Com 3H      | COG          | 3002540916 | 16-21BG/23S/34E | 2/26/2014            | 187                  | 0.2           | 212             | 2nd BSPG Sd |
| Gettysburg St 2H          | COG          | 3002540874 | 16-21CF/23S/34E | 8/20/2013            | 114                  | 0.1           | 121             | 2nd BSPG Sd |
| Gettysburg St Com 1H      | COG          | 3002541928 | 16-21DE/23S/34E | 6/23/2015            | 221                  | 0.3           | 223             | 2nd BSPG Sd |
| Wildcat 21 LI Fed 1H      | Mewbourne    | 3002541261 | 21LI/23S/34E    | 10/13/2013           | 65                   | 0.1           | 90              | 3rd BSPG Sd |
| Try Try Again 1H          | Regeneration | 3002541841 | 23MD/23S/34E    | 10/29/2015           | 160                  | 0.3           | 147             | 3rd BSPG Sd |
| Landreth Fed Com 1H       | Regeneration | 3002541522 | 24MD/23S/34E    | 4/6/2014             | 62                   | 0.1           | 97              | 3rd BSPG Sd |
| Mad Dog 26 B3OB State 1H  | Mewbourne    | 3002541982 | 26OB/23S/34E    | 7/6/2016             | 120                  | 0.1           | 105             | 3rd BSPG Sd |
| Mad Dog 26 B3NC State 1H  | Mewbourne    | 3002541124 | 26NC/23S/34E    | 8/1/2014             | 202                  | 0.2           | 115             | 3rd BSPG Sd |
| Mad Dog 26 MD State 1H    | Mewbourne    | 3002541123 | 26MD/23S/34E    | 2/10/2014            | 155                  | 0.2           | 144             | 3rd BSPG Sd |

EXHIBIT  
17

# Mewbourne Oil Company

Lea County, New Mexico

Pronghorn 15 B3AP Fed Com 1H

Sec 15, T23S, R34E

SL: 185' FNL & 660' FEL

BHL: 330' FSL & 450' FEL

Plan: Design #1

## Standard Planning Report

30 November, 2016

EXHIBIT 18

14 - 20

## Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3AP Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3414.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3414.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3AP Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 450' FEL     |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico               |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                              |                          |                  |
|------------------------------|------------------------------|--------------------------|------------------|
| <b>Site</b>                  | Pronghorn 15 B3AP Fed Com 1H |                          |                  |
| <b>Site Position:</b>        |                              | <b>Northing:</b>         | 478,067.00 usft  |
| <b>From:</b>                 | Map                          | <b>Easting:</b>          | 772,574.00 usft  |
| <b>Position Uncertainty:</b> | 0.0 usft                     | <b>Slot Radius:</b>      | 13-3/16 "        |
|                              |                              | <b>Latitude:</b>         | 32° 18' 40.459 N |
|                              |                              | <b>Longitude:</b>        | 103° 27' 3.849 W |
|                              |                              | <b>Grid Convergence:</b> | 0.47 °           |

|                             |                    |                            |                                  |
|-----------------------------|--------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | Sec 15, T23S, R34E |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>       | 0.0 usft                   | <b>Northing:</b> 478,067.00 usft |
|                             | <b>+E/-W</b>       | 0.0 usft                   | <b>Easting:</b> 772,574.00 usft  |
| <b>Position Uncertainty</b> | 0.0 usft           | <b>Wellhead Elevation:</b> | 0.0 usft                         |
|                             |                    | <b>Latitude:</b>           | 32° 18' 40.459 N                 |
|                             |                    | <b>Longitude:</b>          | 103° 27' 3.849 W                 |
|                             |                    | <b>Ground Level:</b>       | 3,387.0 usft                     |

|                  |                          |                    |                            |
|------------------|--------------------------|--------------------|----------------------------|
| <b>Wellbore</b>  | BHL: 330' FSL & 450' FEL |                    |                            |
| <b>Magnetics</b> | <b>Model Name</b>        | <b>Sample Date</b> | <b>Declination (°)</b>     |
|                  | IGRF2010                 | 11/7/2016          | 6.87                       |
|                  |                          |                    | <b>Dip Angle (°)</b>       |
|                  |                          |                    | 60.15                      |
|                  |                          |                    | <b>Field Strength (nT)</b> |
|                  |                          |                    | 48,141                     |

|                          |                                |                     |                          |
|--------------------------|--------------------------------|---------------------|--------------------------|
| <b>Design</b>            | Design #1                      |                     |                          |
| <b>Audit Notes:</b>      |                                |                     |                          |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <b>Tie On Depth:</b> 0.0 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>      |
|                          | 0.0                            | 0.0                 | 0.0                      |
|                          |                                |                     | <b>Direction (°)</b>     |
|                          |                                |                     | 176.96                   |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                      |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target               |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    | 0.00                 |
| 10,786.5              | 0.00            | 0.00        | 10,786.5              | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    | 0.00 KOP @ 10787'    |
| 11,538.8              | 90.27           | 176.96      | 11,264.0              | -479.0       | 25.4         | 12.00                   | 12.00                  | 0.00                  | 176.96  |                      |
| 15,828.8              | 90.27           | 176.96      | 11,244.0              | -4,783.0     | 253.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL: 330' FSL & 450' |

## Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3AP Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3414.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3414.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3AP Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 450' FEL     |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

| Planned Survey                            |                    |                |                             |                 |                 |                               |                               |                              |                             |
|---|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| Measured<br>Depth<br>(usft)               | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
| 0.0                                       | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| <b>SL: 185' FNL &amp; 660' FEL, Sec15</b> |                    |                |                             |                 |                 |                               |                               |                              |                             |
| 100.0                                     | 0.00               | 0.00           | 100.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 200.0                                     | 0.00               | 0.00           | 200.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 300.0                                     | 0.00               | 0.00           | 300.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 400.0                                     | 0.00               | 0.00           | 400.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 500.0                                     | 0.00               | 0.00           | 500.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 600.0                                     | 0.00               | 0.00           | 600.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 700.0                                     | 0.00               | 0.00           | 700.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 800.0                                     | 0.00               | 0.00           | 800.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 900.0                                     | 0.00               | 0.00           | 900.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,000.0                                   | 0.00               | 0.00           | 1,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,100.0                                   | 0.00               | 0.00           | 1,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,200.0                                   | 0.00               | 0.00           | 1,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,300.0                                   | 0.00               | 0.00           | 1,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,400.0                                   | 0.00               | 0.00           | 1,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,500.0                                   | 0.00               | 0.00           | 1,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,600.0                                   | 0.00               | 0.00           | 1,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,700.0                                   | 0.00               | 0.00           | 1,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,800.0                                   | 0.00               | 0.00           | 1,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 1,900.0                                   | 0.00               | 0.00           | 1,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,000.0                                   | 0.00               | 0.00           | 2,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,100.0                                   | 0.00               | 0.00           | 2,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,200.0                                   | 0.00               | 0.00           | 2,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,300.0                                   | 0.00               | 0.00           | 2,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,400.0                                   | 0.00               | 0.00           | 2,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,500.0                                   | 0.00               | 0.00           | 2,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,600.0                                   | 0.00               | 0.00           | 2,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,700.0                                   | 0.00               | 0.00           | 2,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,800.0                                   | 0.00               | 0.00           | 2,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 2,900.0                                   | 0.00               | 0.00           | 2,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,000.0                                   | 0.00               | 0.00           | 3,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,100.0                                   | 0.00               | 0.00           | 3,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,200.0                                   | 0.00               | 0.00           | 3,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,300.0                                   | 0.00               | 0.00           | 3,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,400.0                                   | 0.00               | 0.00           | 3,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,500.0                                   | 0.00               | 0.00           | 3,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,600.0                                   | 0.00               | 0.00           | 3,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,700.0                                   | 0.00               | 0.00           | 3,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,800.0                                   | 0.00               | 0.00           | 3,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 3,900.0                                   | 0.00               | 0.00           | 3,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,000.0                                   | 0.00               | 0.00           | 4,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,100.0                                   | 0.00               | 0.00           | 4,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,200.0                                   | 0.00               | 0.00           | 4,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,300.0                                   | 0.00               | 0.00           | 4,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,400.0                                   | 0.00               | 0.00           | 4,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,500.0                                   | 0.00               | 0.00           | 4,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,600.0                                   | 0.00               | 0.00           | 4,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,700.0                                   | 0.00               | 0.00           | 4,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,800.0                                   | 0.00               | 0.00           | 4,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 4,900.0                                   | 0.00               | 0.00           | 4,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,000.0                                   | 0.00               | 0.00           | 5,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,100.0                                   | 0.00               | 0.00           | 5,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |
| 5,200.0                                   | 0.00               | 0.00           | 5,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |

## Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3AP Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3414.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3414.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3AP Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 450' FEL     |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

| Planned Survey              |                    |                |                             |                 |                 |                               |                               |                              |                             |      |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |      |
| 5,300.0                     | 0.00               | 0.00           | 5,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 5,400.0                     | 0.00               | 0.00           | 5,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 5,500.0                     | 0.00               | 0.00           | 5,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 5,600.0                     | 0.00               | 0.00           | 5,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 5,700.0                     | 0.00               | 0.00           | 5,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 5,800.0                     | 0.00               | 0.00           | 5,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 5,900.0                     | 0.00               | 0.00           | 5,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,000.0                     | 0.00               | 0.00           | 6,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,100.0                     | 0.00               | 0.00           | 6,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,200.0                     | 0.00               | 0.00           | 6,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,300.0                     | 0.00               | 0.00           | 6,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,400.0                     | 0.00               | 0.00           | 6,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,500.0                     | 0.00               | 0.00           | 6,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,600.0                     | 0.00               | 0.00           | 6,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,700.0                     | 0.00               | 0.00           | 6,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,800.0                     | 0.00               | 0.00           | 6,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 6,900.0                     | 0.00               | 0.00           | 6,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,000.0                     | 0.00               | 0.00           | 7,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,100.0                     | 0.00               | 0.00           | 7,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,200.0                     | 0.00               | 0.00           | 7,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,300.0                     | 0.00               | 0.00           | 7,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,400.0                     | 0.00               | 0.00           | 7,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,500.0                     | 0.00               | 0.00           | 7,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,600.0                     | 0.00               | 0.00           | 7,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,700.0                     | 0.00               | 0.00           | 7,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,800.0                     | 0.00               | 0.00           | 7,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 7,900.0                     | 0.00               | 0.00           | 7,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,000.0                     | 0.00               | 0.00           | 8,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,100.0                     | 0.00               | 0.00           | 8,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,200.0                     | 0.00               | 0.00           | 8,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,300.0                     | 0.00               | 0.00           | 8,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,400.0                     | 0.00               | 0.00           | 8,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,500.0                     | 0.00               | 0.00           | 8,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,600.0                     | 0.00               | 0.00           | 8,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,700.0                     | 0.00               | 0.00           | 8,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,800.0                     | 0.00               | 0.00           | 8,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 8,900.0                     | 0.00               | 0.00           | 8,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,000.0                     | 0.00               | 0.00           | 9,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,100.0                     | 0.00               | 0.00           | 9,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,200.0                     | 0.00               | 0.00           | 9,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,300.0                     | 0.00               | 0.00           | 9,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,400.0                     | 0.00               | 0.00           | 9,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,500.0                     | 0.00               | 0.00           | 9,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,600.0                     | 0.00               | 0.00           | 9,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,700.0                     | 0.00               | 0.00           | 9,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,800.0                     | 0.00               | 0.00           | 9,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 9,900.0                     | 0.00               | 0.00           | 9,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,000.0                    | 0.00               | 0.00           | 10,000.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,100.0                    | 0.00               | 0.00           | 10,100.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,200.0                    | 0.00               | 0.00           | 10,200.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,300.0                    | 0.00               | 0.00           | 10,300.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,400.0                    | 0.00               | 0.00           | 10,400.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,500.0                    | 0.00               | 0.00           | 10,500.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,600.0                    | 0.00               | 0.00           | 10,600.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |

## Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3AP Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3414.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3414.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3AP Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 450' FEL     |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

| Planned Survey                     |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|------------------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft)        | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| 10,700.0                           | 0.00               | 0.00           | 10,700.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,786.5                           | 0.00               | 0.00           | 10,786.5                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| <b>KOP @ 10787'</b>                |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 10,800.0                           | 1.62               | 176.96         | 10,800.0                    | -0.2            | 0.0             | 0.2                           | 12.00                         | 12.00                        | 0.00                        |  |
| 10,900.0                           | 13.62              | 176.96         | 10,898.9                    | -13.4           | 0.7             | 13.4                          | 12.00                         | 12.00                        | 0.00                        |  |
| 11,000.0                           | 25.62              | 176.96         | 10,993.0                    | -46.9           | 2.5             | 46.9                          | 12.00                         | 12.00                        | 0.00                        |  |
| 11,100.0                           | 37.62              | 176.96         | 11,078.0                    | -99.1           | 5.3             | 99.3                          | 12.00                         | 12.00                        | 0.00                        |  |
| 11,200.0                           | 49.62              | 176.96         | 11,150.2                    | -167.9          | 8.9             | 168.1                         | 12.00                         | 12.00                        | 0.00                        |  |
| 11,300.0                           | 61.62              | 176.96         | 11,206.6                    | -250.1          | 13.3            | 250.5                         | 12.00                         | 12.00                        | 0.00                        |  |
| 11,400.0                           | 73.62              | 176.96         | 11,244.6                    | -342.3          | 18.2            | 342.8                         | 12.00                         | 12.00                        | 0.00                        |  |
| 11,500.0                           | 85.62              | 176.96         | 11,262.6                    | -440.3          | 23.4            | 441.0                         | 12.00                         | 12.00                        | 0.00                        |  |
| 11,538.7                           | 90.26              | 176.96         | 11,264.0                    | -479.0          | 25.4            | 479.7                         | 12.00                         | 12.00                        | 0.00                        |  |
| <b>LP: 664' FNL &amp; 635' FEL</b> |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
| 11,600.0                           | 90.27              | 176.96         | 11,263.7                    | -540.2          | 28.7            | 540.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 11,700.0                           | 90.27              | 176.96         | 11,263.2                    | -640.0          | 34.0            | 640.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 11,800.0                           | 90.27              | 176.96         | 11,262.8                    | -739.9          | 39.3            | 740.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 11,900.0                           | 90.27              | 176.96         | 11,262.3                    | -839.7          | 44.6            | 840.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 12,000.0                           | 90.27              | 176.96         | 11,261.8                    | -939.6          | 49.9            | 940.9                         | 0.00                          | 0.00                         | 0.00                        |  |
| 12,100.0                           | 90.27              | 176.96         | 11,261.4                    | -1,039.5        | 55.2            | 1,040.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,200.0                           | 90.27              | 176.96         | 11,260.9                    | -1,139.3        | 60.5            | 1,140.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,300.0                           | 90.27              | 176.96         | 11,260.5                    | -1,239.2        | 65.8            | 1,240.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,400.0                           | 90.27              | 176.96         | 11,260.0                    | -1,339.0        | 71.1            | 1,340.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,500.0                           | 90.27              | 176.96         | 11,259.5                    | -1,438.9        | 76.4            | 1,440.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,600.0                           | 90.27              | 176.96         | 11,259.1                    | -1,538.7        | 81.7            | 1,540.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,700.0                           | 90.27              | 176.96         | 11,258.6                    | -1,638.6        | 87.0            | 1,640.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,800.0                           | 90.27              | 176.96         | 11,258.1                    | -1,738.5        | 92.3            | 1,740.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 12,900.0                           | 90.27              | 176.96         | 11,257.7                    | -1,838.3        | 97.6            | 1,840.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,000.0                           | 90.27              | 176.96         | 11,257.2                    | -1,938.2        | 103.0           | 1,940.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,100.0                           | 90.27              | 176.96         | 11,256.7                    | -2,038.0        | 108.3           | 2,040.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,200.0                           | 90.27              | 176.96         | 11,256.3                    | -2,137.9        | 113.6           | 2,140.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,300.0                           | 90.27              | 176.96         | 11,255.8                    | -2,237.8        | 118.9           | 2,240.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,400.0                           | 90.27              | 176.96         | 11,255.3                    | -2,337.6        | 124.2           | 2,340.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,500.0                           | 90.27              | 176.96         | 11,254.9                    | -2,437.5        | 129.5           | 2,440.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,600.0                           | 90.27              | 176.96         | 11,254.4                    | -2,537.3        | 134.8           | 2,540.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,700.0                           | 90.27              | 176.96         | 11,253.9                    | -2,637.2        | 140.1           | 2,640.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,800.0                           | 90.27              | 176.96         | 11,253.5                    | -2,737.0        | 145.4           | 2,740.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 13,900.0                           | 90.27              | 176.96         | 11,253.0                    | -2,836.9        | 150.7           | 2,840.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,000.0                           | 90.27              | 176.96         | 11,252.5                    | -2,936.8        | 156.0           | 2,940.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,100.0                           | 90.27              | 176.96         | 11,252.1                    | -3,036.6        | 161.3           | 3,040.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,200.0                           | 90.27              | 176.96         | 11,251.6                    | -3,136.5        | 166.6           | 3,140.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,300.0                           | 90.27              | 176.96         | 11,251.1                    | -3,236.3        | 171.9           | 3,240.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,400.0                           | 90.27              | 176.96         | 11,250.7                    | -3,336.2        | 177.2           | 3,340.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,500.0                           | 90.27              | 176.96         | 11,250.2                    | -3,436.0        | 182.5           | 3,440.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,600.0                           | 90.27              | 176.96         | 11,249.7                    | -3,535.9        | 187.8           | 3,540.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,700.0                           | 90.27              | 176.96         | 11,249.3                    | -3,635.8        | 193.1           | 3,640.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,800.0                           | 90.27              | 176.96         | 11,248.8                    | -3,735.6        | 198.4           | 3,740.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 14,900.0                           | 90.27              | 176.96         | 11,248.3                    | -3,835.5        | 203.7           | 3,840.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,000.0                           | 90.27              | 176.96         | 11,247.9                    | -3,935.3        | 209.0           | 3,940.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,100.0                           | 90.27              | 176.96         | 11,247.4                    | -4,035.2        | 214.3           | 4,040.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,200.0                           | 90.27              | 176.96         | 11,246.9                    | -4,135.1        | 219.6           | 4,140.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,300.0                           | 90.27              | 176.96         | 11,246.5                    | -4,234.9        | 224.9           | 4,240.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,400.0                           | 90.27              | 176.96         | 11,246.0                    | -4,334.8        | 230.3           | 4,340.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,500.0                           | 90.27              | 176.96         | 11,245.5                    | -4,434.6        | 235.6           | 4,440.9                       | 0.00                          | 0.00                         | 0.00                        |  |
| 15,600.0                           | 90.27              | 176.96         | 11,245.1                    | -4,534.5        | 240.9           | 4,540.9                       | 0.00                          | 0.00                         | 0.00                        |  |

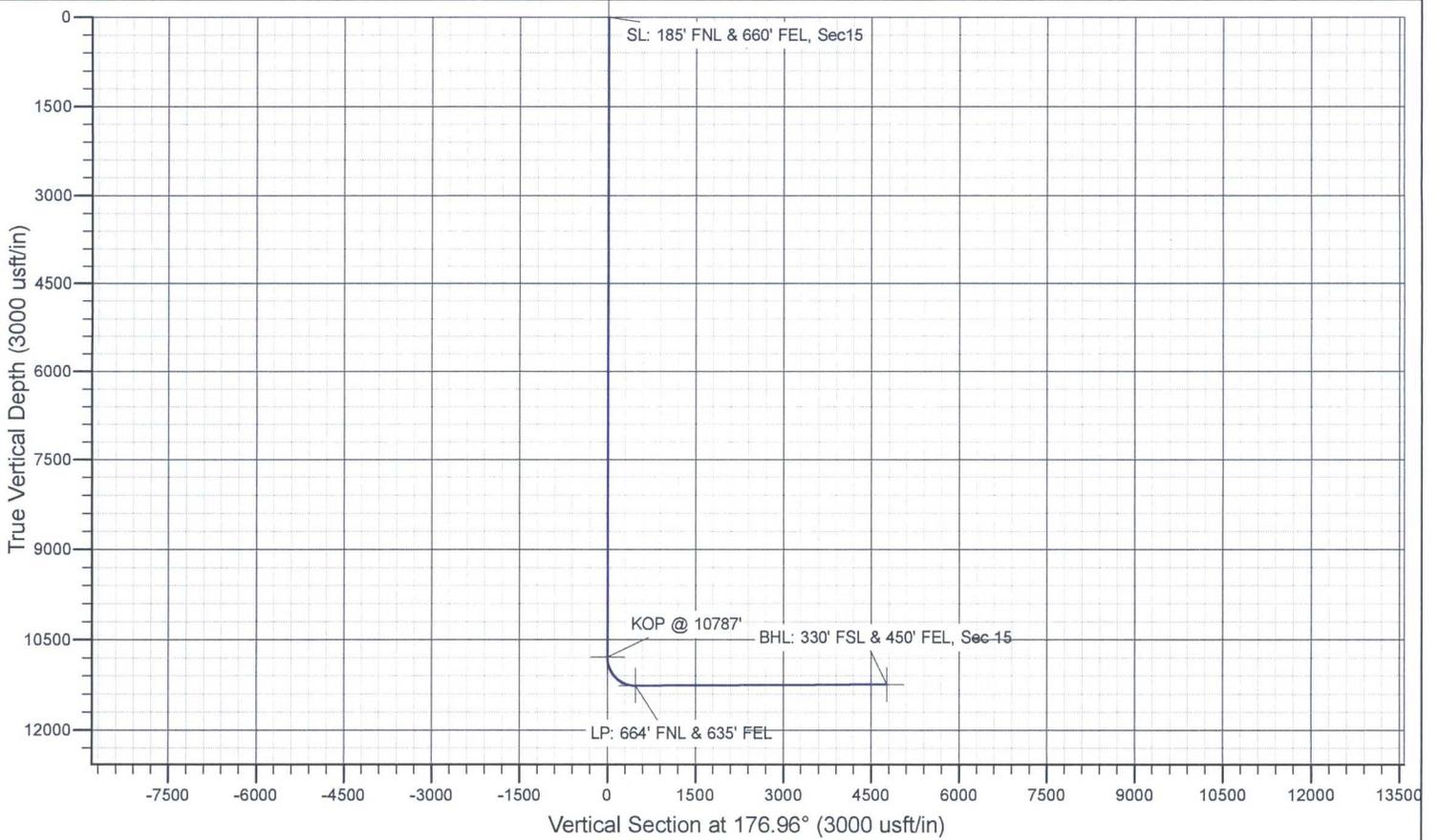
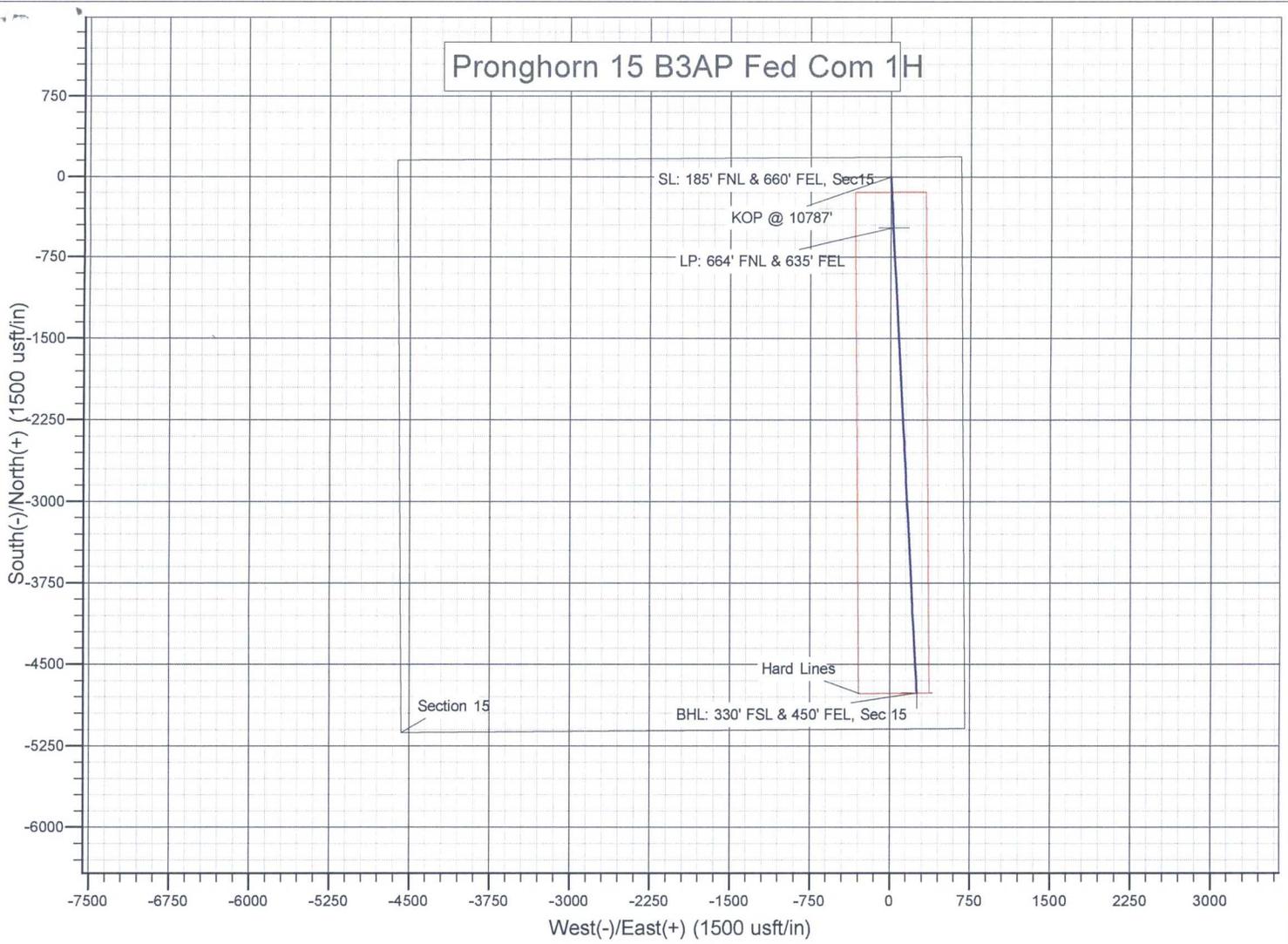
## Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3AP Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3414.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3414.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3AP Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 450' FEL     |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

| Planned Survey                   |                 |             |                       |              |              |                         |                         |                        |                       |
|----------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)            | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 15,700.0                         | 90.27           | 176.96      | 11,244.6              | -4,634.3     | 246.2        | 4,640.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0                         | 90.27           | 176.96      | 11,244.1              | -4,734.2     | 251.5        | 4,740.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,828.8                         | 90.27           | 176.96      | 11,244.0              | -4,763.0     | 253.0        | 4,769.7                 | 0.00                    | 0.00                   | 0.00                  |
| BHL: 330' FSL & 450' FEL, Sec 15 |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets  |               |              |            |              |              |                 |                |                  |                  |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|------------------|
| Target Name<br>- hit/miss target<br>- Shape                     | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude        |
| SL: 185' FNL & 660' FEL<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 0.0        | 0.0          | 0.0          | 478,067.00      | 772,574.00     | 32° 18' 40.459 N | 103° 27' 3.849 W |
| KOP @ 10787'<br>- plan hits target center<br>- Point            | 0.00          | 0.00         | 10,786.5   | 0.0          | 0.0          | 478,067.00      | 772,574.00     | 32° 18' 40.459 N | 103° 27' 3.849 W |
| BHL: 330' FSL & 450' FE<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,244.0   | -4,763.0     | 253.0        | 473,304.00      | 772,827.00     | 32° 17' 53.308 N | 103° 27' 1.358 W |
| LP: 664' FNL & 635' FEL<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,264.0   | -479.0       | 25.4         | 477,588.00      | 772,599.40     | 32° 18' 35.718 N | 103° 27' 3.599 W |

# Pronghorn 15 B3AP Fed Com 1H



# Mewbourne Oil Company

Lea County, New Mexico

Pronghorn 15 B3BO Fed Com #1H

Sec 15, T23S, R34E

SL: 185' FNL & 1700' FEL

BHL: 330' FSL & 2150' FEL

Plan: Design #1

## Standard Planning Report

17 February, 2016

EXHIBIT

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Planning Report

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | Hobbs                         | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3BO Fed Com #1H     |
| <b>Company:</b>  | Mewbourne Oil Company         | <b>TVD Reference:</b>               | WELL @ 3421.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico        | <b>MD Reference:</b>                | WELL @ 3421.0usft (Original Well Elev) |
| <b>Site:</b>     | Pronghorn 15 B3BO Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 15, T23S, R34E            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 2150' FEL     |                                     |  |
| <b>Design:</b>   | Design #1                     |                                     |  |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico               |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                               |                     |                 |                          |                   |
|------------------------------|-------------------------------|---------------------|-----------------|--------------------------|-------------------|
| <b>Site</b>                  | Pronghorn 15 B3BO Fed Com #1H |                     |                 |                          |                   |
| <b>Site Position:</b>        |                               | <b>Northing:</b>    | 478,060.00 usft | <b>Latitude:</b>         | 32° 18' 40.475 N  |
| <b>From:</b>                 | Map                           | <b>Easting:</b>     | 771,534.00 usft | <b>Longitude:</b>        | 103° 27' 15.967 W |
| <b>Position Uncertainty:</b> | 0.0 usft                      | <b>Slot Radius:</b> | 13-3/16 "       | <b>Grid Convergence:</b> | 0.47 °            |

|                             |                    |          |                            |                 |                      |                   |
|-----------------------------|--------------------|----------|----------------------------|-----------------|----------------------|-------------------|
| <b>Well</b>                 | Sec 15, T23S, R34E |          |                            |                 |                      |                   |
| <b>Well Position</b>        | <b>+N/-S</b>       | 0.0 usft | <b>Northing:</b>           | 478,060.00 usft | <b>Latitude:</b>     | 32° 18' 40.475 N  |
|                             | <b>+E/-W</b>       | 0.0 usft | <b>Easting:</b>            | 771,534.00 usft | <b>Longitude:</b>    | 103° 27' 15.967 W |
| <b>Position Uncertainty</b> |                    | 0.0 usft | <b>Wellhead Elevation:</b> | 3,421.0 usft    | <b>Ground Level:</b> | 3,394.0 usft      |

|                  |                           |                    |                    |                  |                       |
|------------------|---------------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | BHL: 330' FSL & 2150' FEL |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b>         | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  | IGRF2010                  | 2/17/2016          | (°)                | (°)              | (nT)                  |
|                  |                           |                    | 6.98               | 60.17            | 48,213                |

|                          |                         |              |                      |                  |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| <b>Design</b>            | Design #1               |              |                      |                  |
| <b>Audit Notes:</b>      |                         |              |                      |                  |
| <b>Version:</b>          | <b>Phase:</b>           | PROTOTYPE    | <b>Tie On Depth:</b> | 0.0              |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b>         | <b>Direction</b> |
|                          | (usft)                  | (usft)       | (usft)               | (°)              |
|                          | 0.0                     | 0.0          | 0.0                  | 184.89           |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target                |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |
| 10,806.5              | 0.00            | 0.00        | 10,806.5              | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                       |
| 11,557.3              | 90.09           | 184.89      | 11,284.0              | -476.5       | -40.8        | 12.00                   | 12.00                  | 0.00                  | -175.11 |                       |
| 15,864.5              | 90.09           | 184.89      | 11,277.0              | -4,768.0     | -408.0       | 0.00                    | 0.00                   | 0.00                  | 0.00    | BHL: 330' FSL & 2150' |

Planning Report

|                  |                              |                                     |  |
|------------------|------------------------------|-------------------------------------|--|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghom 15 B3BO Fed Com #1H      |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | WELL @ 3421.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | WELL @ 3421.0usft (Original Well Elev) |
| <b>Site:</b>     | Pronghom 15 B3BO Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 2150' FEL    |                                     |  |
| <b>Design:</b>   | Design #1                    |                                     |  |

| Planned Survey                      |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft)               | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 0.0                                 | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| <b>SL: 185' FNL &amp; 1700' FEL</b> |                 |             |                       |              |              |                         |                         |                        |                       |  |
| 100.0                               | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 200.0                               | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 300.0                               | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 400.0                               | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 500.0                               | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 600.0                               | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 700.0                               | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 800.0                               | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 900.0                               | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,000.0                             | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,100.0                             | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,200.0                             | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,300.0                             | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,400.0                             | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,500.0                             | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,600.0                             | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,700.0                             | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,800.0                             | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 1,900.0                             | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,000.0                             | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,100.0                             | 0.00            | 0.00        | 2,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,200.0                             | 0.00            | 0.00        | 2,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,300.0                             | 0.00            | 0.00        | 2,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,400.0                             | 0.00            | 0.00        | 2,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,500.0                             | 0.00            | 0.00        | 2,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,600.0                             | 0.00            | 0.00        | 2,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,700.0                             | 0.00            | 0.00        | 2,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,800.0                             | 0.00            | 0.00        | 2,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 2,900.0                             | 0.00            | 0.00        | 2,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,000.0                             | 0.00            | 0.00        | 3,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,100.0                             | 0.00            | 0.00        | 3,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,200.0                             | 0.00            | 0.00        | 3,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,300.0                             | 0.00            | 0.00        | 3,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,400.0                             | 0.00            | 0.00        | 3,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,500.0                             | 0.00            | 0.00        | 3,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,600.0                             | 0.00            | 0.00        | 3,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,700.0                             | 0.00            | 0.00        | 3,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,800.0                             | 0.00            | 0.00        | 3,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 3,900.0                             | 0.00            | 0.00        | 3,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,000.0                             | 0.00            | 0.00        | 4,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,100.0                             | 0.00            | 0.00        | 4,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,200.0                             | 0.00            | 0.00        | 4,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,300.0                             | 0.00            | 0.00        | 4,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,400.0                             | 0.00            | 0.00        | 4,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,500.0                             | 0.00            | 0.00        | 4,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,600.0                             | 0.00            | 0.00        | 4,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,700.0                             | 0.00            | 0.00        | 4,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,800.0                             | 0.00            | 0.00        | 4,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 4,900.0                             | 0.00            | 0.00        | 4,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,000.0                             | 0.00            | 0.00        | 5,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,100.0                             | 0.00            | 0.00        | 5,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,200.0                             | 0.00            | 0.00        | 5,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |

Planning Report

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | Hobbs                         | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3BO Fed Com #1H     |
| <b>Company:</b>  | Mewbourne Oil Company         | <b>TVD Reference:</b>               | WELL @ 3421.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico        | <b>MD Reference:</b>                | WELL @ 3421.0usft (Original Well Elev) |
| <b>Site:</b>     | Pronghorn 15 B3BO Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 15, T23S, R34E            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 2150' FEL     |                                     |  |
| <b>Design:</b>   | Design #1                     |                                     |  |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 5,300.0               | 0.00            | 0.00        | 5,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,400.0               | 0.00            | 0.00        | 5,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,500.0               | 0.00            | 0.00        | 5,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,600.0               | 0.00            | 0.00        | 5,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,700.0               | 0.00            | 0.00        | 5,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,800.0               | 0.00            | 0.00        | 5,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 5,900.0               | 0.00            | 0.00        | 5,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,000.0               | 0.00            | 0.00        | 6,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,100.0               | 0.00            | 0.00        | 6,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,200.0               | 0.00            | 0.00        | 6,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,300.0               | 0.00            | 0.00        | 6,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,400.0               | 0.00            | 0.00        | 6,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,500.0               | 0.00            | 0.00        | 6,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,600.0               | 0.00            | 0.00        | 6,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,700.0               | 0.00            | 0.00        | 6,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,800.0               | 0.00            | 0.00        | 6,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 6,900.0               | 0.00            | 0.00        | 6,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,000.0               | 0.00            | 0.00        | 7,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,100.0               | 0.00            | 0.00        | 7,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,200.0               | 0.00            | 0.00        | 7,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,300.0               | 0.00            | 0.00        | 7,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,400.0               | 0.00            | 0.00        | 7,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,500.0               | 0.00            | 0.00        | 7,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,600.0               | 0.00            | 0.00        | 7,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,700.0               | 0.00            | 0.00        | 7,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,800.0               | 0.00            | 0.00        | 7,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 7,900.0               | 0.00            | 0.00        | 7,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,000.0               | 0.00            | 0.00        | 8,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,100.0               | 0.00            | 0.00        | 8,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,200.0               | 0.00            | 0.00        | 8,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,300.0               | 0.00            | 0.00        | 8,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,400.0               | 0.00            | 0.00        | 8,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,500.0               | 0.00            | 0.00        | 8,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,600.0               | 0.00            | 0.00        | 8,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,700.0               | 0.00            | 0.00        | 8,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,800.0               | 0.00            | 0.00        | 8,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 8,900.0               | 0.00            | 0.00        | 8,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,000.0               | 0.00            | 0.00        | 9,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,100.0               | 0.00            | 0.00        | 9,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,200.0               | 0.00            | 0.00        | 9,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,300.0               | 0.00            | 0.00        | 9,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,400.0               | 0.00            | 0.00        | 9,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,500.0               | 0.00            | 0.00        | 9,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,600.0               | 0.00            | 0.00        | 9,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,700.0               | 0.00            | 0.00        | 9,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,800.0               | 0.00            | 0.00        | 9,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 9,900.0               | 0.00            | 0.00        | 9,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,000.0              | 0.00            | 0.00        | 10,000.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,100.0              | 0.00            | 0.00        | 10,100.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,200.0              | 0.00            | 0.00        | 10,200.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,300.0              | 0.00            | 0.00        | 10,300.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,400.0              | 0.00            | 0.00        | 10,400.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,500.0              | 0.00            | 0.00        | 10,500.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |
| 10,600.0              | 0.00            | 0.00        | 10,600.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |  |

**Planning Report**

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | Hobbs                         | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3BO Fed Com #1H     |
| <b>Company:</b>  | Mewbourne Oil Company         | <b>TVD Reference:</b>               | WELL @ 3421.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico        | <b>MD Reference:</b>                | WELL @ 3421.0usft (Original Well Elev) |
| <b>Site:</b>     | Pronghorn 15 B3BO Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 15, T23S, R34E            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 2150' FEL     |                                     |  |
| <b>Design:</b>   | Design #1                     |                                     |  |

| <b>Planned Survey</b>                             |                 |             |                       |              |              |                         |                         |                        |                       |      |
|---|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|------|
| Measured Depth (usft)                             | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |      |
| 10,700.0  | 0.00            | 0.00        | 10,700.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 10,800.0  | 0.00            | 0.00        | 10,800.0              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 10,806.5  | 0.00            | 0.00        | 10,806.5              | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| <b>KOP @ 10807'</b>                               |                 |             |                       |              |              |                         |                         |                        |                       |      |
| 10,900.0  | 11.22           | 184.89      | 10,899.4              | -9.1         | -0.8         | 9.1                     | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| 11,000.0  | 23.22           | 184.89      | 10,994.7              | -38.5        | -3.3         | 38.7                    | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| 11,100.0  | 35.22           | 184.89      | 11,081.9              | -87.1        | -7.4         | 87.4                    | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| 11,189.5  | 45.96           | 184.89      | 11,149.8              | -145.0       | -12.4        | 145.5                   | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| <b>First Take Point: 330' FNL &amp; 1712' FEL</b> |                 |             |                       |              |              |                         |                         |                        |                       |      |
| 11,200.0  | 47.22           | 184.89      | 11,157.0              | -152.6       | -13.1        | 153.1                   | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| 11,300.0  | 59.22           | 184.89      | 11,216.7              | -232.2       | -19.9        | 233.1                   | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| 11,400.0  | 71.22           | 184.89      | 11,258.6              | -322.5       | -27.6        | 323.7                   | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| 11,500.0  | 83.22           | 184.89      | 11,280.7              | -419.5       | -35.9        | 421.1                   | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| 11,557.3  | 90.09           | 184.89      | 11,284.0              | -476.5       | -40.8        | 478.2                   | 12.00                   | 12.00                  | 12.00                 | 0.00 |
| <b>LP: 662' FNL &amp; 1741' FEL</b>               |                 |             |                       |              |              |                         |                         |                        |                       |      |
| 11,600.0  | 90.09           | 184.89      | 11,283.9              | -519.0       | -44.4        | 520.9                   | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 11,700.0  | 90.09           | 184.89      | 11,283.8              | -618.7       | -52.9        | 620.9                   | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 11,800.0  | 90.09           | 184.89      | 11,283.6              | -718.3       | -61.5        | 720.9                   | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 11,900.0  | 90.09           | 184.89      | 11,283.4              | -817.9       | -70.0        | 820.9                   | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,000.0  | 90.09           | 184.89      | 11,283.3              | -917.6       | -78.5        | 920.9                   | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,100.0  | 90.09           | 184.89      | 11,283.1              | -1,017.2     | -87.0        | 1,020.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,200.0  | 90.09           | 184.89      | 11,283.0              | -1,116.8     | -95.6        | 1,120.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,300.0  | 90.09           | 184.89      | 11,282.8              | -1,216.5     | -104.1       | 1,220.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,400.0  | 90.09           | 184.89      | 11,282.6              | -1,316.1     | -112.6       | 1,320.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,500.0  | 90.09           | 184.89      | 11,282.5              | -1,415.8     | -121.1       | 1,420.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,600.0  | 90.09           | 184.89      | 11,282.3              | -1,515.4     | -129.7       | 1,520.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,700.0  | 90.09           | 184.89      | 11,282.1              | -1,615.0     | -138.2       | 1,620.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,800.0  | 90.09           | 184.89      | 11,282.0              | -1,714.7     | -146.7       | 1,720.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 12,900.0  | 90.09           | 184.89      | 11,281.8              | -1,814.3     | -155.3       | 1,820.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,000.0  | 90.09           | 184.89      | 11,281.7              | -1,913.9     | -163.8       | 1,920.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,100.0  | 90.09           | 184.89      | 11,281.5              | -2,013.6     | -172.3       | 2,020.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,200.0  | 90.09           | 184.89      | 11,281.3              | -2,113.2     | -180.8       | 2,120.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,300.0  | 90.09           | 184.89      | 11,281.2              | -2,212.8     | -189.4       | 2,220.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,400.0  | 90.09           | 184.89      | 11,281.0              | -2,312.5     | -197.9       | 2,320.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,500.0  | 90.09           | 184.89      | 11,280.8              | -2,412.1     | -206.4       | 2,420.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,600.0  | 90.09           | 184.89      | 11,280.7              | -2,511.7     | -214.9       | 2,520.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,700.0  | 90.09           | 184.89      | 11,280.5              | -2,611.4     | -223.5       | 2,620.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,800.0  | 90.09           | 184.89      | 11,280.4              | -2,711.0     | -232.0       | 2,720.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 13,900.0  | 90.09           | 184.89      | 11,280.2              | -2,810.7     | -240.5       | 2,820.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,000.0  | 90.09           | 184.89      | 11,280.0              | -2,910.3     | -249.0       | 2,920.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,100.0  | 90.09           | 184.89      | 11,279.9              | -3,009.9     | -257.6       | 3,020.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,200.0  | 90.09           | 184.89      | 11,279.7              | -3,109.6     | -266.1       | 3,120.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,300.0  | 90.09           | 184.89      | 11,279.5              | -3,209.2     | -274.6       | 3,220.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,400.0  | 90.09           | 184.89      | 11,279.4              | -3,308.8     | -283.1       | 3,320.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,500.0  | 90.09           | 184.89      | 11,279.2              | -3,408.5     | -291.7       | 3,420.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,600.0  | 90.09           | 184.89      | 11,279.1              | -3,508.1     | -300.2       | 3,520.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,700.0  | 90.09           | 184.89      | 11,278.9              | -3,607.7     | -308.7       | 3,620.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,800.0  | 90.09           | 184.89      | 11,278.7              | -3,707.4     | -317.2       | 3,720.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 14,900.0  | 90.09           | 184.89      | 11,278.6              | -3,807.0     | -325.8       | 3,820.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 15,000.0  | 90.09           | 184.89      | 11,278.4              | -3,906.6     | -334.3       | 3,920.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 15,100.0  | 90.09           | 184.89      | 11,278.2              | -4,006.3     | -342.8       | 4,020.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 15,200.0  | 90.09           | 184.89      | 11,278.1              | -4,105.9     | -351.3       | 4,120.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |
| 15,300.0  | 90.09           | 184.89      | 11,277.9              | -4,205.6     | -359.9       | 4,220.9                 | 0.00                    | 0.00                   | 0.00                  | 0.00 |

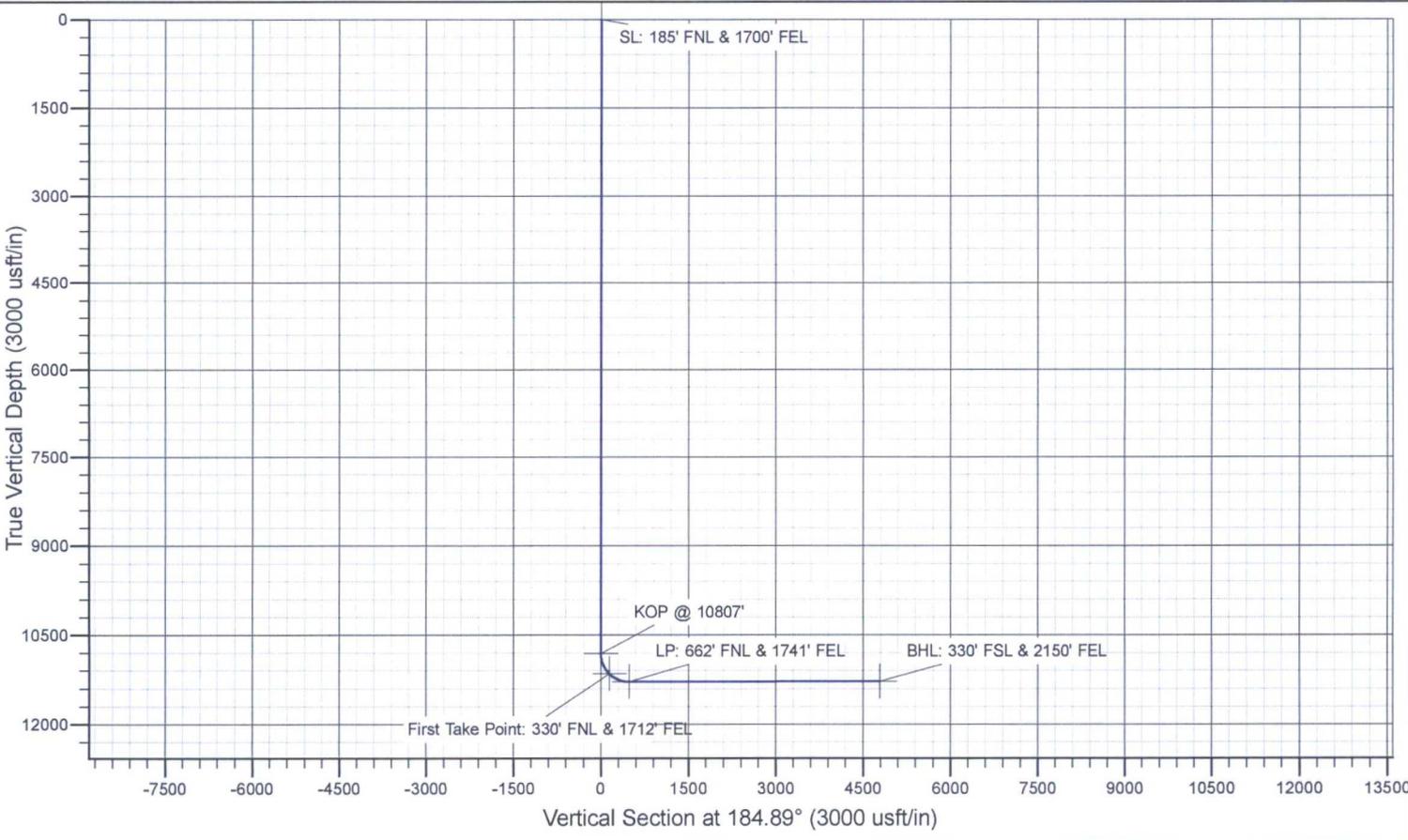
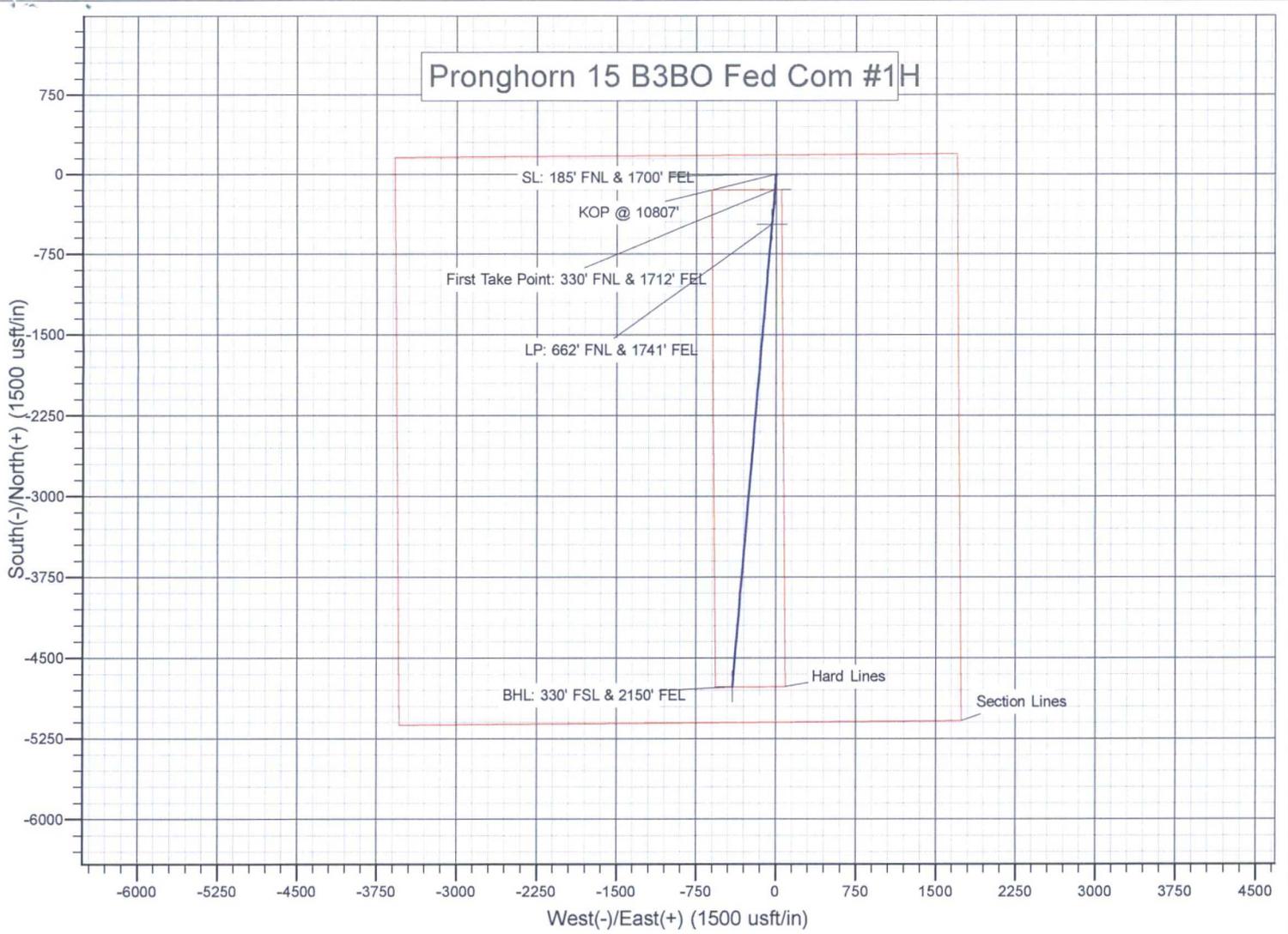
**Planning Report**

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | Hobbs                         | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3BO Fed Com #1H     |
| <b>Company:</b>  | Mewbourne Oil Company         | <b>TVD Reference:</b>               | WELL @ 3421.0usft (Original Well Elev) |
| <b>Project:</b>  | Lea County, New Mexico        | <b>MD Reference:</b>                | WELL @ 3421.0usft (Original Well Elev) |
| <b>Site:</b>     | Pronghorn 15 B3BO Fed Com #1H | <b>North Reference:</b>             | Grid                                   |
| <b>Well:</b>     | Sec 15, T23S, R34E            | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Wellbore:</b> | BHL: 330' FSL & 2150' FEL     |                                     |  |
| <b>Design:</b>   | Design #1                     |                                     |  |

| <b>Planned Survey</b>                |                 |             |                       |              |              |                         |                         |                        |                       |
|--------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)                | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 15,400.0                             | 90.09           | 184.89      | 11,277.8              | -4,305.2     | -368.4       | 4,320.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,500.0                             | 90.09           | 184.89      | 11,277.6              | -4,404.8     | -376.9       | 4,420.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,600.0                             | 90.09           | 184.89      | 11,277.4              | -4,504.5     | -385.4       | 4,520.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,700.0                             | 90.09           | 184.89      | 11,277.3              | -4,604.1     | -394.0       | 4,620.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,800.0                             | 90.09           | 184.89      | 11,277.1              | -4,703.7     | -402.5       | 4,720.9                 | 0.00                    | 0.00                   | 0.00                  |
| 15,864.5                             | 90.09           | 184.89      | 11,277.0              | -4,768.0     | -408.0       | 4,785.4                 | 0.00                    | 0.00                   | 0.00                  |
| <b>BHL: 330' FSL &amp; 2150' FEL</b> |                 |             |                       |              |              |                         |                         |                        |                       |

| <b>Design Targets</b>   |               |              |            |              |              |                 |                |                  |                   |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|
| Target Name<br>- hit/miss target<br>- Shape                       | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |
| SL: 185' FNL & 1700' FE<br>- plan hits target center<br>- Point   | 0.00          | 0.00         | 0.0        | 0.0          | 0.0          | 478,060.00      | 771,534.00     | 32° 18' 40.475 N | 103° 27' 15.967 W |
| KOP @ 10807'<br>- plan hits target center<br>- Point              | 0.00          | 0.00         | 10,806.5   | 0.0          | 0.0          | 478,060.00      | 771,534.00     | 32° 18' 40.475 N | 103° 27' 15.967 W |
| First Take Point: 330' FN<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,149.7   | -145.0       | -12.4        | 477,915.00      | 771,521.59     | 32° 18' 39.041 N | 103° 27' 16.125 W |
| BHL: 330' FSL & 2150' F<br>- plan hits target center<br>- Point   | 0.00          | 0.00         | 11,277.0   | -4,768.0     | -408.0       | 473,292.00      | 771,126.00     | 32° 17' 53.328 N | 103° 27' 21.175 W |
| LP: 662' FNL & 1741' FE<br>- plan hits target center<br>- Point   | 0.00          | 0.00         | 11,284.0   | -476.5       | -40.8        | 477,583.50      | 771,493.20     | 32° 18' 35.763 N | 103° 27' 16.488 W |

# Pronghorn 15 B3BO Fed Com #1H



# Mewbourne Oil Company

Lea County, New Mexico

Pronghorn 15 B3CN Fed Com 1H

Sec 15, T23S, R34E

SL: 185' FNL & 1,700' FWL

BHL: 330' FSL & 1,800' FWL

Plan: Design #1

## Standard Planning Report

08 November, 2016



## Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3CN Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3424.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3424.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3CN Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 1,800' FWL   |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

|                    |                                      |                      |                |
|--------------------|--------------------------------------|----------------------|----------------|
| <b>Project</b>     | Lea County, New Mexico               |                      |                |
| <b>Map System:</b> | US State Plane 1927 (Exact solution) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 (NADCON CONUS)              |                      |                |
| <b>Map Zone:</b>   | New Mexico East 3001                 |                      |                |

|                              |                              |                               |                                     |
|------------------------------|------------------------------|-------------------------------|-------------------------------------|
| <b>Site</b>                  | Pronghorn 15 B3CN Fed Com 1H |                               |                                     |
| <b>Site Position:</b>        | <b>Northing:</b>             | 478,047.00 usft               | <b>Latitude:</b> 32° 18' 40.498 N   |
| <b>From:</b> Map             | <b>Easting:</b>              | 769,656.00 usft               | <b>Longitude:</b> 103° 27' 37.849 W |
| <b>Position Uncertainty:</b> | 0.0 usft                     | <b>Slot Radius:</b> 13-3/16 " | <b>Grid Convergence:</b> 0.47 °     |

|                             |                    |                            |                                  |
|-----------------------------|--------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | Sec 15, T23S, R34E |                            |                                  |
| <b>Well Position</b>        | <b>+N/-S</b>       | 0.0 usft                   | <b>Northing:</b> 478,047.00 usft |
|                             | <b>+E/-W</b>       | 0.0 usft                   | <b>Easting:</b> 769,656.00 usft  |
| <b>Position Uncertainty</b> | 0.0 usft           | <b>Wellhead Elevation:</b> | 0.0 usft                         |
|                             |                    | <b>Ground Level:</b>       | 3,397.0 usft                     |

|                  |                            |                    |                        |                      |                            |
|------------------|----------------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | BHL: 330' FSL & 1,800' FWL |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b>          | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2010                   | 11/7/2016          | 6.87                   | 60.15                | 48,140                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Design #1                      |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PROTOTYPE           | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 178.31               |

| Plan Sections         |                 |             |                       |              |              |                         |                        |                       |         |                    |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target             |
| 0.0                   | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |                    |
| 10,826.5              | 0.00            | 0.00        | 10,826.5              | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    | PH 15 B#CN KOP     |
| 11,574.6              | 89.76           | 178.31      | 11,304.0              | -475.3       | 14.1         | 12.00                   | 12.00                  | 0.00                  | 178.31  |                    |
| 15,866.2              | 89.76           | 178.31      | 11,322.0              | -4,765.0     | 141.0        | 0.00                    | 0.00                   | 0.00                  | 0.00    | PH 15 B3CN BHL: 33 |

### Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3CN Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3424.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3424.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3CN Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 1,800' FWL   |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

| Planned Survey              |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| 0.0                         | 0.00               | 0.00           | 0.0                         | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 100.0                       | 0.00               | 0.00           | 100.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 200.0                       | 0.00               | 0.00           | 200.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 300.0                       | 0.00               | 0.00           | 300.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 400.0                       | 0.00               | 0.00           | 400.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 500.0                       | 0.00               | 0.00           | 500.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 600.0                       | 0.00               | 0.00           | 600.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 700.0                       | 0.00               | 0.00           | 700.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 800.0                       | 0.00               | 0.00           | 800.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 900.0                       | 0.00               | 0.00           | 900.0                       | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,000.0                     | 0.00               | 0.00           | 1,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,100.0                     | 0.00               | 0.00           | 1,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,200.0                     | 0.00               | 0.00           | 1,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,300.0                     | 0.00               | 0.00           | 1,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,400.0                     | 0.00               | 0.00           | 1,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,500.0                     | 0.00               | 0.00           | 1,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,600.0                     | 0.00               | 0.00           | 1,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,700.0                     | 0.00               | 0.00           | 1,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,800.0                     | 0.00               | 0.00           | 1,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 1,900.0                     | 0.00               | 0.00           | 1,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,000.0                     | 0.00               | 0.00           | 2,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,100.0                     | 0.00               | 0.00           | 2,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,200.0                     | 0.00               | 0.00           | 2,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,300.0                     | 0.00               | 0.00           | 2,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,400.0                     | 0.00               | 0.00           | 2,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,500.0                     | 0.00               | 0.00           | 2,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,600.0                     | 0.00               | 0.00           | 2,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,700.0                     | 0.00               | 0.00           | 2,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,800.0                     | 0.00               | 0.00           | 2,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 2,900.0                     | 0.00               | 0.00           | 2,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,000.0                     | 0.00               | 0.00           | 3,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,100.0                     | 0.00               | 0.00           | 3,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,200.0                     | 0.00               | 0.00           | 3,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,300.0                     | 0.00               | 0.00           | 3,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,400.0                     | 0.00               | 0.00           | 3,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,500.0                     | 0.00               | 0.00           | 3,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,600.0                     | 0.00               | 0.00           | 3,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,700.0                     | 0.00               | 0.00           | 3,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,800.0                     | 0.00               | 0.00           | 3,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 3,900.0                     | 0.00               | 0.00           | 3,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,000.0                     | 0.00               | 0.00           | 4,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,100.0                     | 0.00               | 0.00           | 4,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,200.0                     | 0.00               | 0.00           | 4,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,300.0                     | 0.00               | 0.00           | 4,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,400.0                     | 0.00               | 0.00           | 4,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,500.0                     | 0.00               | 0.00           | 4,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,600.0                     | 0.00               | 0.00           | 4,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,700.0                     | 0.00               | 0.00           | 4,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,800.0                     | 0.00               | 0.00           | 4,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 4,900.0                     | 0.00               | 0.00           | 4,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,000.0                     | 0.00               | 0.00           | 5,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,100.0                     | 0.00               | 0.00           | 5,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,200.0                     | 0.00               | 0.00           | 5,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,300.0                     | 0.00               | 0.00           | 5,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |

### Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3CN Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3424.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3424.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3CN Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 1,800' FWL   |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

| Planned Survey              |                    |                |                             |                 |                 |                               |                               |                              |                             |  |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|--|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |  |
| 5,400.0                     | 0.00               | 0.00           | 5,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,500.0                     | 0.00               | 0.00           | 5,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,600.0                     | 0.00               | 0.00           | 5,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,700.0                     | 0.00               | 0.00           | 5,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,800.0                     | 0.00               | 0.00           | 5,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 5,900.0                     | 0.00               | 0.00           | 5,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,000.0                     | 0.00               | 0.00           | 6,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,100.0                     | 0.00               | 0.00           | 6,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,200.0                     | 0.00               | 0.00           | 6,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,300.0                     | 0.00               | 0.00           | 6,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,400.0                     | 0.00               | 0.00           | 6,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,500.0                     | 0.00               | 0.00           | 6,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,600.0                     | 0.00               | 0.00           | 6,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,700.0                     | 0.00               | 0.00           | 6,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,800.0                     | 0.00               | 0.00           | 6,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 6,900.0                     | 0.00               | 0.00           | 6,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,000.0                     | 0.00               | 0.00           | 7,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,100.0                     | 0.00               | 0.00           | 7,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,200.0                     | 0.00               | 0.00           | 7,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,300.0                     | 0.00               | 0.00           | 7,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,400.0                     | 0.00               | 0.00           | 7,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,500.0                     | 0.00               | 0.00           | 7,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,600.0                     | 0.00               | 0.00           | 7,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,700.0                     | 0.00               | 0.00           | 7,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,800.0                     | 0.00               | 0.00           | 7,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 7,900.0                     | 0.00               | 0.00           | 7,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,000.0                     | 0.00               | 0.00           | 8,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,100.0                     | 0.00               | 0.00           | 8,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,200.0                     | 0.00               | 0.00           | 8,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,300.0                     | 0.00               | 0.00           | 8,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,400.0                     | 0.00               | 0.00           | 8,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,500.0                     | 0.00               | 0.00           | 8,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,600.0                     | 0.00               | 0.00           | 8,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,700.0                     | 0.00               | 0.00           | 8,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,800.0                     | 0.00               | 0.00           | 8,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 8,900.0                     | 0.00               | 0.00           | 8,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,000.0                     | 0.00               | 0.00           | 9,000.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,100.0                     | 0.00               | 0.00           | 9,100.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,200.0                     | 0.00               | 0.00           | 9,200.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,300.0                     | 0.00               | 0.00           | 9,300.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,400.0                     | 0.00               | 0.00           | 9,400.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,500.0                     | 0.00               | 0.00           | 9,500.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,600.0                     | 0.00               | 0.00           | 9,600.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,700.0                     | 0.00               | 0.00           | 9,700.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,800.0                     | 0.00               | 0.00           | 9,800.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 9,900.0                     | 0.00               | 0.00           | 9,900.0                     | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,000.0                    | 0.00               | 0.00           | 10,000.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,100.0                    | 0.00               | 0.00           | 10,100.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,200.0                    | 0.00               | 0.00           | 10,200.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,300.0                    | 0.00               | 0.00           | 10,300.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,400.0                    | 0.00               | 0.00           | 10,400.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,500.0                    | 0.00               | 0.00           | 10,500.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,600.0                    | 0.00               | 0.00           | 10,600.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |
| 10,700.0                    | 0.00               | 0.00           | 10,700.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        |  |

## Planning Report

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3CN Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3424.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3424.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3CN Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 1,800' FWL   |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

| Planned Survey              |                    |                |                             |                 |                 |                               |                               |                              |                             |      |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(°) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |      |
| 10,800.0                    | 0.00               | 0.00           | 10,800.0                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,826.5                    | 0.00               | 0.00           | 10,826.5                    | 0.0             | 0.0             | 0.0                           | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 10,850.0                    | 2.82               | 178.31         | 10,850.0                    | -0.6            | 0.0             | 0.6                           | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 10,875.0                    | 5.82               | 178.31         | 10,874.9                    | -2.5            | 0.1             | 2.5                           | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 10,900.0                    | 8.82               | 178.31         | 10,899.7                    | -5.6            | 0.2             | 5.6                           | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 10,925.0                    | 11.82              | 178.31         | 10,924.3                    | -10.1           | 0.3             | 10.1                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 10,950.0                    | 14.82              | 178.31         | 10,948.6                    | -15.9           | 0.5             | 15.9                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 10,975.0                    | 17.82              | 178.31         | 10,972.6                    | -22.9           | 0.7             | 22.9                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,000.0                    | 20.82              | 178.31         | 10,996.2                    | -31.2           | 0.9             | 31.2                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,025.0                    | 23.82              | 178.31         | 11,019.3                    | -40.7           | 1.2             | 40.7                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,050.0                    | 26.82              | 178.31         | 11,041.9                    | -51.3           | 1.5             | 51.4                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,075.0                    | 29.82              | 178.31         | 11,063.9                    | -63.2           | 1.9             | 63.2                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,100.0                    | 32.82              | 178.31         | 11,085.3                    | -76.2           | 2.3             | 76.2                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,125.0                    | 35.82              | 178.31         | 11,105.9                    | -90.3           | 2.7             | 90.3                          | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,150.0                    | 38.82              | 178.31         | 11,125.8                    | -105.4          | 3.1             | 105.5                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,175.0                    | 41.82              | 178.31         | 11,144.9                    | -121.6          | 3.6             | 121.6                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,200.0                    | 44.82              | 178.31         | 11,163.1                    | -138.7          | 4.1             | 138.8                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,225.0                    | 47.82              | 178.31         | 11,180.3                    | -156.8          | 4.6             | 156.9                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,250.0                    | 50.82              | 178.31         | 11,196.6                    | -175.7          | 5.2             | 175.8                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,275.0                    | 53.82              | 178.31         | 11,211.9                    | -195.5          | 5.8             | 195.6                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,300.0                    | 56.82              | 178.31         | 11,226.1                    | -216.1          | 6.4             | 216.1                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,325.0                    | 59.82              | 178.31         | 11,239.3                    | -237.3          | 7.0             | 237.4                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,350.0                    | 62.81              | 178.31         | 11,251.3                    | -259.2          | 7.7             | 259.3                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,375.0                    | 65.81              | 178.31         | 11,262.1                    | -281.8          | 8.3             | 281.9                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,400.0                    | 68.81              | 178.31         | 11,271.7                    | -304.8          | 9.0             | 304.9                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,425.0                    | 71.81              | 178.31         | 11,280.2                    | -328.3          | 9.7             | 328.5                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,450.0                    | 74.81              | 178.31         | 11,287.3                    | -352.3          | 10.4            | 352.4                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,475.0                    | 77.81              | 178.31         | 11,293.2                    | -376.5          | 11.1            | 376.7                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,500.0                    | 80.81              | 178.31         | 11,297.9                    | -401.1          | 11.9            | 401.3                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,525.0                    | 83.81              | 178.31         | 11,301.2                    | -425.9          | 12.6            | 426.0                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,550.0                    | 86.81              | 178.31         | 11,303.3                    | -450.8          | 13.3            | 451.0                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,574.6                    | 89.76              | 178.31         | 11,304.0                    | -475.3          | 14.1            | 475.5                         | 12.00                         | 12.00                        | 0.00                        | 0.00 |
| 11,600.0                    | 89.76              | 178.31         | 11,304.1                    | -500.7          | 14.8            | 500.9                         | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 11,700.0                    | 89.76              | 178.31         | 11,304.5                    | -600.7          | 17.8            | 600.9                         | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 11,800.0                    | 89.76              | 178.31         | 11,304.9                    | -700.6          | 20.7            | 700.9                         | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 11,900.0                    | 89.76              | 178.31         | 11,305.4                    | -800.6          | 23.7            | 800.9                         | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,000.0                    | 89.76              | 178.31         | 11,305.8                    | -900.5          | 26.6            | 900.9                         | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,100.0                    | 89.76              | 178.31         | 11,306.2                    | -1,000.5        | 29.6            | 1,000.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,200.0                    | 89.76              | 178.31         | 11,306.6                    | -1,100.5        | 32.6            | 1,100.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,300.0                    | 89.76              | 178.31         | 11,307.0                    | -1,200.4        | 35.5            | 1,200.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,400.0                    | 89.76              | 178.31         | 11,307.5                    | -1,300.4        | 38.5            | 1,300.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,500.0                    | 89.76              | 178.31         | 11,307.9                    | -1,400.3        | 41.4            | 1,400.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,600.0                    | 89.76              | 178.31         | 11,308.3                    | -1,500.3        | 44.4            | 1,500.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,700.0                    | 89.76              | 178.31         | 11,308.7                    | -1,600.2        | 47.4            | 1,600.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,800.0                    | 89.76              | 178.31         | 11,309.1                    | -1,700.2        | 50.3            | 1,700.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 12,900.0                    | 89.76              | 178.31         | 11,309.6                    | -1,800.1        | 53.3            | 1,800.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,000.0                    | 89.76              | 178.31         | 11,310.0                    | -1,900.1        | 56.2            | 1,900.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,100.0                    | 89.76              | 178.31         | 11,310.4                    | -2,000.1        | 59.2            | 2,000.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,200.0                    | 89.76              | 178.31         | 11,310.8                    | -2,100.0        | 62.1            | 2,100.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,300.0                    | 89.76              | 178.31         | 11,311.2                    | -2,200.0        | 65.1            | 2,200.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,400.0                    | 89.76              | 178.31         | 11,311.7                    | -2,299.9        | 68.1            | 2,300.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,500.0                    | 89.76              | 178.31         | 11,312.1                    | -2,399.9        | 71.0            | 2,400.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,600.0                    | 89.76              | 178.31         | 11,312.5                    | -2,499.8        | 74.0            | 2,500.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |
| 13,700.0                    | 89.76              | 178.31         | 11,312.9                    | -2,599.8        | 76.9            | 2,600.9                       | 0.00                          | 0.00                         | 0.00                        | 0.00 |

**Planning Report**

|                  |                              |                                     |                                   |
|------------------|------------------------------|-------------------------------------|-----------------------------------|
| <b>Database:</b> | Hobbs                        | <b>Local Co-ordinate Reference:</b> | Site Pronghorn 15 B3CN Fed Com 1H |
| <b>Company:</b>  | Mewbourne Oil Company        | <b>TVD Reference:</b>               | KB @ 3424.0usft                   |
| <b>Project:</b>  | Lea County, New Mexico       | <b>MD Reference:</b>                | KB @ 3424.0usft                   |
| <b>Site:</b>     | Pronghorn 15 B3CN Fed Com 1H | <b>North Reference:</b>             | Grid                              |
| <b>Well:</b>     | Sec 15, T23S, R34E           | <b>Survey Calculation Method:</b>   | Minimum Curvature                 |
| <b>Wellbore:</b> | BHL: 330' FSL & 1,800' FWL   |                                     |                                   |
| <b>Design:</b>   | Design #1                    |                                     |                                   |

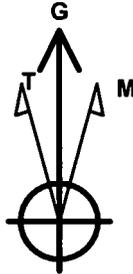
| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|--|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |  |
| 13,800.0              | 89.76           | 178.31      | 11,313.3              | -2,699.7     | 79.9         | 2,700.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 13,900.0              | 89.76           | 178.31      | 11,313.8              | -2,799.7     | 82.8         | 2,800.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,000.0              | 89.76           | 178.31      | 11,314.2              | -2,899.7     | 85.8         | 2,900.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,100.0              | 89.76           | 178.31      | 11,314.6              | -2,999.6     | 88.8         | 3,000.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,200.0              | 89.76           | 178.31      | 11,315.0              | -3,099.6     | 91.7         | 3,100.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,300.0              | 89.76           | 178.31      | 11,315.4              | -3,199.5     | 94.7         | 3,200.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,400.0              | 89.76           | 178.31      | 11,315.9              | -3,299.5     | 97.6         | 3,300.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,500.0              | 89.76           | 178.31      | 11,316.3              | -3,399.4     | 100.6        | 3,400.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,600.0              | 89.76           | 178.31      | 11,316.7              | -3,499.4     | 103.5        | 3,500.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,700.0              | 89.76           | 178.31      | 11,317.1              | -3,599.3     | 106.5        | 3,600.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,800.0              | 89.76           | 178.31      | 11,317.5              | -3,699.3     | 109.5        | 3,700.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 14,900.0              | 89.76           | 178.31      | 11,317.9              | -3,799.3     | 112.4        | 3,800.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,000.0              | 89.76           | 178.31      | 11,318.4              | -3,899.2     | 115.4        | 3,900.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,100.0              | 89.76           | 178.31      | 11,318.8              | -3,999.2     | 118.3        | 4,000.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,200.0              | 89.76           | 178.31      | 11,319.2              | -4,099.1     | 121.3        | 4,100.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,300.0              | 89.76           | 178.31      | 11,319.6              | -4,199.1     | 124.3        | 4,200.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,400.0              | 89.76           | 178.31      | 11,320.0              | -4,299.0     | 127.2        | 4,300.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,500.0              | 89.76           | 178.31      | 11,320.5              | -4,399.0     | 130.2        | 4,400.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,600.0              | 89.76           | 178.31      | 11,320.9              | -4,498.9     | 133.1        | 4,500.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,700.0              | 89.76           | 178.31      | 11,321.3              | -4,598.9     | 136.1        | 4,600.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,800.0              | 89.76           | 178.31      | 11,321.7              | -4,698.8     | 139.0        | 4,700.9                 | 0.00                    | 0.00                   | 0.00                  |  |
| 15,866.2              | 89.76           | 178.31      | 11,322.0              | -4,765.0     | 141.0        | 4,767.1                 | 0.00                    | 0.00                   | 0.00                  |  |

| Design Targets   |               |              |            |              |              |                 |                |                  |                   |  |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|------------------|-------------------|--|
| Target Name<br>- hit/miss target<br>- Shape                    | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude         |  |
| PH 15 B#CN KOP<br>- plan hits target center<br>- Point         | 0.00          | 0.00         | 10,826.5   | 0.0          | 0.0          | 478,047.00      | 769,656.00     | 32° 18' 40.498 N | 103° 27' 37.849 W |  |
| PH 15 B3CN LP<br>- plan hits target center<br>- Point          | 0.00          | 0.00         | 11,304.0   | -475.3       | 14.1         | 477,571.70      | 769,670.10     | 32° 18' 35.794 N | 103° 27' 37.730 W |  |
| PH 15 B3CN BHL: 330' l<br>- plan hits target center<br>- Point | 0.00          | 0.00         | 11,322.0   | -4,765.0     | 141.0        | 473,282.00      | 769,797.00     | 32° 17' 53.336 N | 103° 27' 36.659 W |  |

# Mewbourne Oil Company

By: Charles Martin  
15:24, November 07 2016

Project: Lea County, New Mexico  
Site: Pronghorn 15 B3CN Fed Com 1H  
Well: Sec 15, T23S, R34E  
Wellbore: BHL: 330' FSL & 1,800' FWL  
Design: SL: 185' FNL & 1,700' FWL



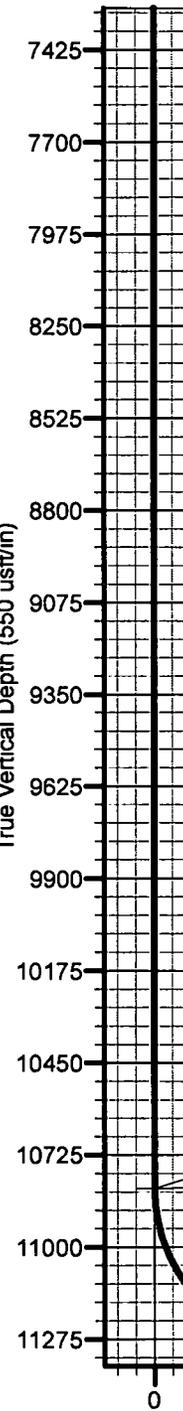
Azimuths to Grid North  
True North: -0.47°  
Magnetic North: 6.41°

Magnetic Field  
Strength: 48140.1snT  
Dip Angle: 60.15°  
Date: 11/7/2016  
Model: IGRF2010

## SECTION DETAILS

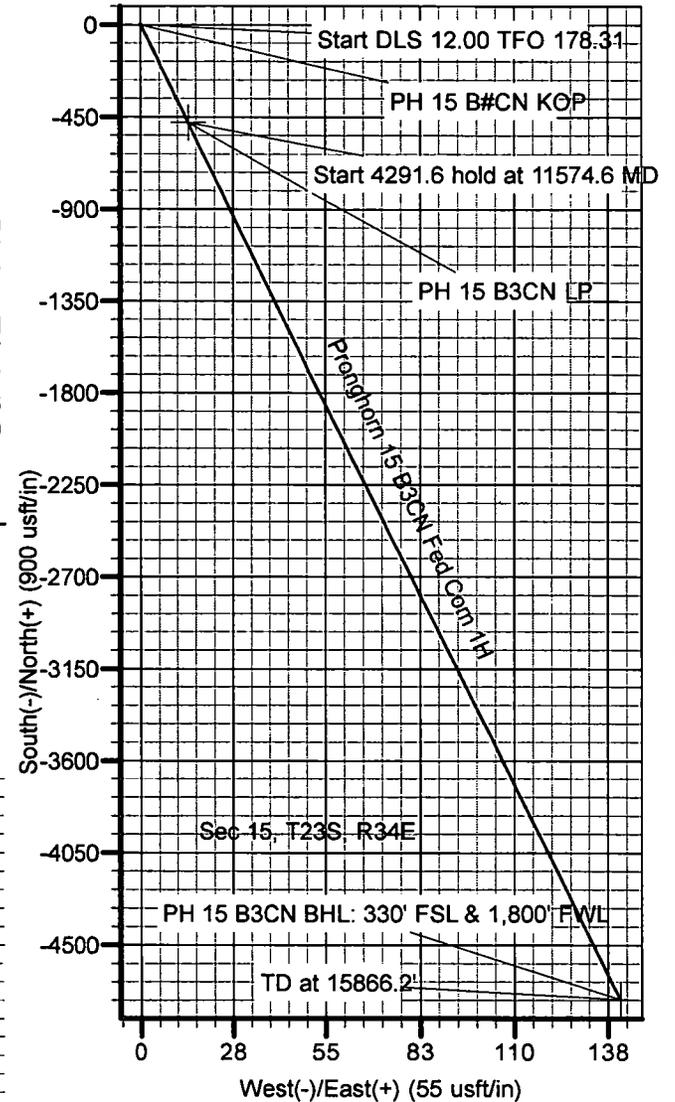
| Sec | MD       | Inc    | Azi     | TVD      | +N/-S    | +E/-W  | Dleg   | TFace   | V Sect  | Target |
|-----|----------|--------|---------|----------|----------|--------|--------|---------|---------|--------|
| 1   | 0.0'     | 0.00°  | 0.00°   | 0.0'     | 0.0'     | 0.0'   | 0.00°  | 0.00°   | 0.0'    |        |
| 2   | 10826.5' | 0.00°  | 0.00°   | 10826.5' | 0.0'     | 0.0'   | 0.00°  | 0.00°   | 0.0'    | KOP    |
| 3   | 11574.6' | 89.76° | 178.31° | 11304.0' | -475.3'  | 14.1'  | 12.00° | 178.31° | 475.5'  | LP     |
| 4   | 15866.2' | 89.76° | 178.31° | 11322.0' | -4765.0' | 141.0' | 0.00°  | 0.00°   | 4767.1' | BHL    |

True Vertical Depth (550 usft/in)



0 275 550 825 1100 1375 1650 1925 2200 2475 2750 3025 3300 3575 3850 4125 4400 4675 4950

Vertical Section at 178.31° (550 usft/in)



Start DLS 12.00 TFO 178.31

PH 15 B#CN KOP

Start 4291.6 hold at 11574.6' MD

PH 15 B3CN LP

TD at 15866.2'

PH 15 B3CN BHL: 330' FSL & 1,800' FWL

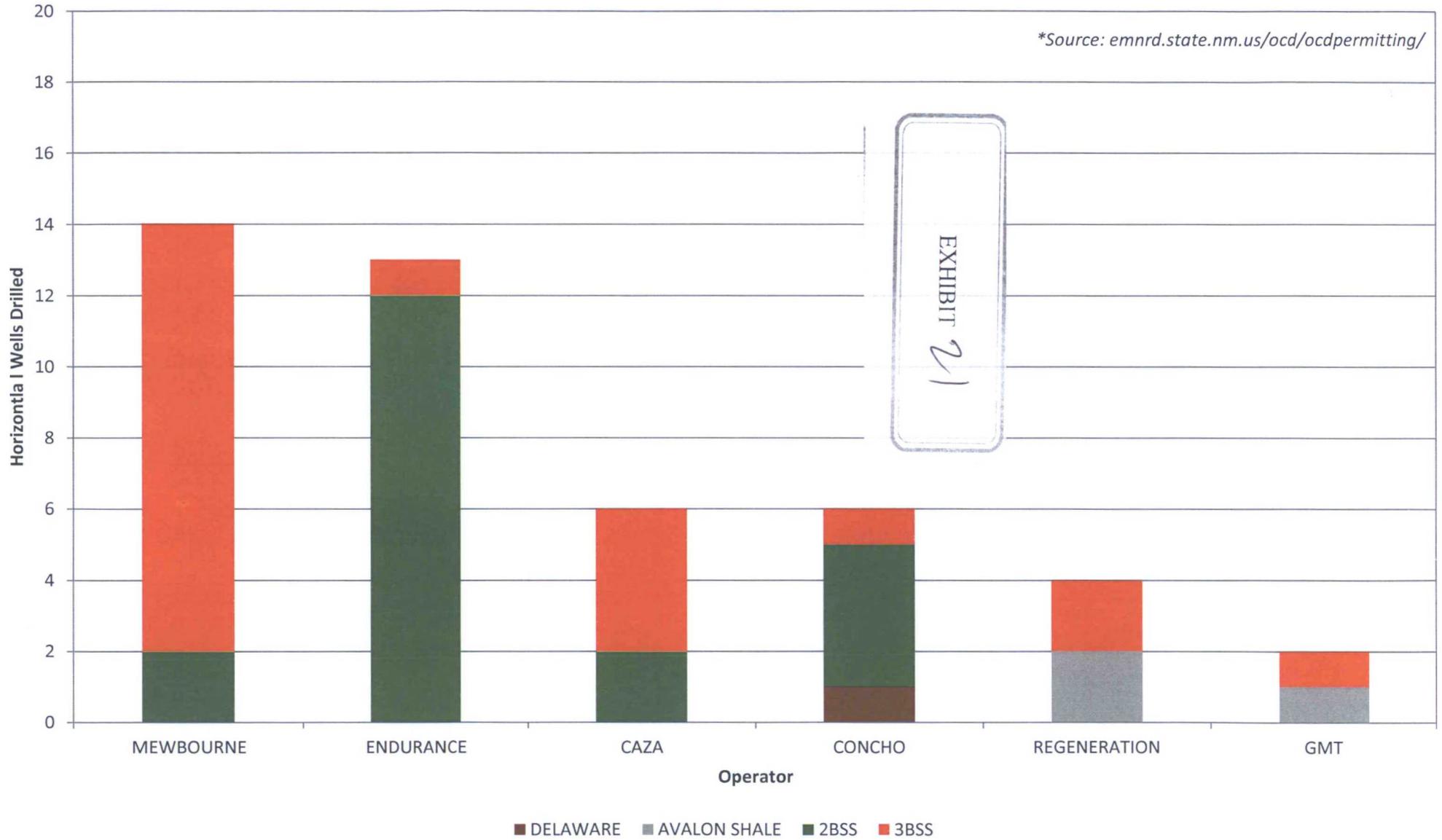
West(-)/East(+) (55 usft/in)

South(-)/North(+) (900 usft/in)

# Horizontal Wells Drilled in T23S R34E, Lea Co. NM

45 Total Wells by Operator and Formation Targeted

*\*Source: emnrd.state.nm.us/ocd/ocdpermitting/*





**BTA OIL PRODUCERS, LLC**

104 SOUTH PECOS STREET  
MIDLAND, TEXAS 79701-5021  
432-682-3753  
FAX 432-683-0311

CARLTON BEAL, JR.  
BARRY BEAL  
SPENCER BEAL  
KELLY BEAL  
BARRY BEAL, JR.  
STUART BEAL  
ROBERT DAVENPORT, JR.

GULF COAST DISTRICT  
TOTAL PLAZA  
1201 LOUISIANA STREET, STE. 670  
HOUSTON, TEXAS 77002  
713-658-0077 FAX 713-655-0346

ROCKY MOUNTAIN DISTRICT  
600 17TH STREET, STE. 2230 SOUTH  
DENVER, COLORADO 80202  
303-534-4404 FAX 303-534-4881

March 29, 2017

Mewbourne Oil Company  
500 W. Texas Ave. – Suite 1020  
Midland, Texas 79701-4279  
Attention: Mr. Travis Cude

Re: Township 23 South – Range 34 East  
Section 3: N/2 & SE/4  
Lea County, New Mexico

Dear Mr. Cude:

BTA Oil Producers, LLC ("BTA") owns oil and gas interests in Section 3-T23S-R34E- Lea County, New Mexico. BTA has plans to develop its acreage in Section 3 by drilling one mile horizontal wells and has no plans or desire to include lands in Section 10 (joining Section 3 on the south side) in the development of its interests. Mewbourne Oil Company ("Mewbourne") may use this letter as support for the upcoming hearing regarding the development of oil and gas interests in the area.

Should you have questions regarding the above proposal, you can call me at (432) 682-3753.

Very truly yours,

**BTA Oil Producers, LLC**

A handwritten signature in black ink, appearing to read 'Willis D. Price III'.

Willis D. Price III  
Land Manager

EXHIBIT 23

**Horizontal AFE Comparison**  
**Black Mountain Operating, LLC and Mewbourne Oil Company**

| Well Proposal                     | Proration Unit | Intangible    |                 | Tangible      |                 | Facilities | Total               |
|-----------------------------------|----------------|---------------|-----------------|---------------|-----------------|------------|---------------------|
|                                   |                | Drilling Cost | Completion Cost | Drilling Cost | Completion Cost |            |                     |
| BMO: Duke Federal 10 #10H         | 10K to 15N     | \$ 2,543,750  | \$ 4,628,085    | \$ 297,000    | \$ 339,061      | \$ 453,475 | \$ 8,261,371        |
| MOC: Pronghorn 15 B3CN Fed Com 1H | 15C to 15N     | \$ 2,124,800  | \$ 1,908,600    | \$ 154,600    | \$ 284,500      | \$ 426,500 | \$ 4,899,000        |
| MOC 1.5x: Cost x 1.5              |                |               |                 |               |                 |            | \$ 7,348,500        |
| <b>(MOC 1.5x) - (BMO)</b>         |                |               |                 |               |                 |            | \$ <b>(912,871)</b> |
| Duke Federal 10 #18H              | 10J to 15O     | \$ 2,532,750  | \$ 4,628,085    | \$ 297,000    | \$ 339,061      | \$ 453,475 | \$ 8,250,371        |
| Pronghorn 15 B3BO Fed Com 1H      | 15B to 15O     | \$ 2,124,800  | \$ 1,908,600    | \$ 154,600    | \$ 284,500      | \$ 426,500 | \$ 4,899,000        |
| MOC 1.5x: Cost x 1.5              |                |               |                 |               |                 |            | \$ 7,348,500        |
| <b>(MOC 1.5x) - (BMO)</b>         |                |               |                 |               |                 |            | \$ <b>(901,871)</b> |
| Duke Federal 10 #26H              | 10I to 15P     | \$ 2,554,750  | \$ 4,628,085    | \$ 297,000    | \$ 339,061      | \$ 453,475 | \$ 8,272,371        |
| Pronghorn 15 B3AP Fed Com 1H      | 15A to 15P     | \$ 2,124,800  | \$ 1,908,600    | \$ 154,600    | \$ 284,200      | \$ 426,500 | \$ 4,898,700        |
| MOC 1.5x: Cost x 1.5              |                |               |                 |               |                 |            | \$ 7,348,050        |
| <b>(MOC 1.5x) - (BMO)</b>         |                |               |                 |               |                 |            | \$ <b>(924,321)</b> |

\* Assuming no cost savings for drilling extended laterals, Black Mountain Operating's proposals are less economic than Mewbourne's.

EXHIBIT *22*

**Horizontal AFE Comparison (BMO Revised AFE's)  
Black Mountain Operating, LLC and Mewbourne Oil Company**

| Well Proposal                     | Proration Unit | Intangible    |                 | Tangible      |                 | Facilities | Total        | *Contingencies in AFE | Total Less Contingencies |
|-----------------------------------|----------------|---------------|-----------------|---------------|-----------------|------------|--------------|-----------------------|--------------------------|
|                                   |                | Drilling Cost | Completion Cost | Drilling Cost | Completion Cost |            |              |                       |                          |
| BMO: Duke Federal 10 #10H         | 10K to 15N     | \$ 2,312,500  | \$ 3,907,350    | \$ 270,000    | \$ 308,237      | \$ 412,250 | \$ 7,210,337 | \$ -                  | \$ 7,210,337             |
| VOC: Pronghorn 15 B3CN Fed Com 1H | 15C to 15N     | \$ 2,124,800  | \$ 1,908,600    | \$ 154,600    | \$ 284,500      | \$ 426,500 | \$ 4,899,000 | \$ 284,100            | \$ 4,614,900             |
| MOC 1.5x: Cost x 1.5              |                |               |                 |               |                 |            | \$ 7,348,500 |                       | \$ 6,922,350             |
| <b>MOC 1.5x) - (BMO)</b>          |                |               |                 |               |                 |            | \$ 138,163   |                       | \$ (287,987)             |
| Duke Federal 10 #18H              | 10J to 15O     | \$ 2,302,500  | \$ 3,907,350    | \$ 270,000    | \$ 308,237      | \$ 412,250 | \$ 7,200,337 |                       | \$ 7,200,337             |
| Pronghorn 15 B3BO Fed Com 1H      | 15B to 15O     | \$ 2,124,800  | \$ 1,908,600    | \$ 154,600    | \$ 284,500      | \$ 426,500 | \$ 4,899,000 | \$ 284,100            | \$ 4,614,900             |
| MOC 1.5x: Cost x 1.5              |                |               |                 |               |                 |            | \$ 7,348,500 |                       | \$ 6,922,350             |
| <b>MOC 1.5x) - (BMO)</b>          |                |               |                 |               |                 |            | \$ 148,163   |                       | \$ (277,987)             |
| Duke Federal 10 #26H              | 10I to 15P     | \$ 2,322,500  | \$ 3,907,350    | \$ 270,000    | \$ 308,237      | \$ 412,250 | \$ 7,220,337 |                       | \$ 7,220,337             |
| Pronghorn 15 B3AP Fed Com 1H      | 15A to 15P     | \$ 2,124,800  | \$ 1,908,600    | \$ 154,600    | \$ 284,200      | \$ 426,500 | \$ 4,898,700 | \$ 284,100            | \$ 4,614,600             |
| MOC 1.5x: Cost x 1.5              |                |               |                 |               |                 |            | \$ 7,348,050 |                       | \$ 6,921,900             |
| <b>MOC 1.5x) - (BMO)</b>          |                |               |                 |               |                 |            | \$ 127,713   |                       | \$ (298,437)             |

\* Assuming no cost savings for drilling extended laterals, Black Mountain Operating's proposals are less economic than Mewbourne's if Mewbourne also removes contingencies.

EXHIBIT 24

**BLACK MOUNTAIN OPERATING, LLC**  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

AFE#: 16002

Date: 1/22/2019 County/State: Lea, NM  
 Lease: Grana Ridge Well No.: 211  
 Surface Location: BUC 2, LEAS, GRANA RIDGE 3 PRODUCTION  
 Proposed Depth: 19,000 MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

Grana Ridge State Com #1H - AFE

**Intangible Development AFE**

| Description   | AFE Amounts        |
|---|--------------------|
| SURVEY / LOCATION / PERMITS                         | \$150,000          |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES           | \$70,000           |
| CONDUCTOR PIPE / WATER WELL DRIVE PIPE              | \$23,000           |
| CONTRACT DRILLING - FOOTAGE & TURNKEY               | \$2                |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU) | \$762,609          |
| FUEL  | \$77,500           |
| MOB / DE-MOB  | \$67,500           |
| RENTAL TOOL & EQUIPMENT                             | \$175,000          |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                   | \$45,000           |
| BITS  | \$120,500          |
| FISHING TOOLS & SERVICES                            | \$0                |
| PIPE INSPECTION & COATING                           | \$0                |
| BOP TESTING   | \$2,500            |
| MUD MATERIALS & CHEMICALS                           | \$225,000          |
| DISPOSAL / FLOWBACK                                 | \$50,000           |
| WATER   | \$15,000           |
| CREW QUARTERS                                       | \$50,000           |
| SPECIAL SERVICES / DIRECTIONAL                      | \$207,500          |
| LOGGING / WIRELINE / PERFORATING                    | \$50,000           |
| DRILL STEM & PRODUCTION TESTS                       | \$0                |
| CORING & CORE ANALYSIS                              | \$0                |
| MUD LOGGING   | \$10,000           |
| CEMENT & CEMENT SERVICES                            | \$82,500           |
| PLUG ABANDON & RESTORE                              | \$0                |
| TRUCKING & HAULING                                  | \$20,000           |
| COMPANY SUPERVISION                                 | \$0                |
| SUPERVISION - CONTRACT                              | \$70,500           |
| OVERHEAD  | \$0                |
| CASING CREWS / CONTRACT LABOR                       | \$25,000           |
| MISCELLANEOUS / OTHER DRILLING COSTS                | \$5,500            |
| DRILLING WELL INSURANCE                             | \$0                |
| CONTINGENCY   | \$736,650          |
| <b>Intangible Drilling</b>                          | <b>\$2,803,180</b> |

|   |                  |
|---|------------------|
| SURFACE CASING                              | \$42,375         |
| INTERMEDIATE CASING                         | \$180,000        |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE  | \$27,500         |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHDES | \$15,000         |
| CONTINGENCY                                 | \$70,488         |
| <b>Tangible Drilling</b>                    | <b>\$291,363</b> |

|  |                    |
|--|--------------------|
| SURVEY / LOCATION / PERMITS                        | \$0                |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES          | \$35,000           |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING     | \$7,900,000        |
| SAND CONTROL                                       | \$0                |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CASIN | \$30,000           |
| FUEL   | \$0                |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                  | \$7,500            |
| SURFACE RENTAL TOOL & EQUIPMENT                    | \$225,000          |
| CORL TUBING/SNUBBING                               | \$150,000          |
| BITS   | \$3,500            |
| FISHING TOOLS & SERVICES                           | \$0                |
| PIPE INSPECTION & COATING                          | \$0                |
| BOP TESTING  | \$0                |
| MUD MATERIALS & CHEMICALS                          | \$60,000           |
| DISPOSAL / FLOWBACK                                | \$50,000           |
| WATER  | \$200,000          |
| CREW QUARTERS                                      | \$0                |
| LOGGING / WIRELINE / PERFORATING                   | \$158,000          |
| CEMENT & CEMENTING SERVICES                        | \$85,250           |
| SLICK LINE   | \$0                |
| TRUCKING & HAULING                                 | \$15,000           |
| COMPANY SUPERVISION                                | \$0                |
| SUPERVISION - CONTRACT                             | \$12,000           |
| OVERHEAD   | \$0                |
| CASING CREWS / CONTRACT LABOR                      | \$25,000           |
| FLOWBACK / WELL TESTS                              | \$80,000           |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS           | \$72,500           |
| DRILLING WELL INSURANCE                            | \$0                |
| CONTINGENCY  | \$419,210          |
| <b>Intangible Completion</b>                       | <b>\$4,811,310</b> |

|   |                  |
|---|------------------|
| PRODUCTION CASING                               | \$204,000        |
| TUBING  | \$40,000         |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE      | \$33,500         |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT | \$8,500          |
| CONTINGENCY                                     | \$10,800         |
| <b>Tangible Completion</b>                      | <b>\$296,800</b> |

|                                       |                  |
|---------------------------------------|------------------|
| GAS LIFT                              | \$0              |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY | \$0              |
| BUCKER RODS / POLISH RODS             | \$0              |
| MISC FITTINGS & SUPPLIES              | \$77,500         |
| SUBSURFACE EQUIPMENT                  | \$7,500          |
| PACKERS                               | \$25,000         |
| FACILITY LABOR COST                   | \$77,500         |
| TANK BATTERY                          | \$65,000         |
| SEPARATORS / HEATERS / TREATERS       | \$60,000         |
| COMPRESSOR                            | \$0              |
| METERING EQUIPMENT / LACT UNIT        | \$9,750          |
| UTILITY EQUIPMENT                     | \$0              |
| PIPELINES & CONNECTIONS               | \$82,500         |
| COMPANY SUPERVISION                   | \$7,500          |
| CONTINGENCY                           | \$41,275         |
| <b>Facilities</b>                     | <b>\$463,475</b> |

Total Estimated Well Cost: \$4,296,784

Black Mountain Operating, LLC  
 Prepared by: [Signature] Date: 1/22/2019

PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PART OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BMOO, LLC.

|             |                             |
|-------------|-----------------------------|
| OWNERSHIP   | COST TO COMPLETE            |
| DATE        | PARTICIPANTS ESTIMATED COST |
| APPROVED BY | TITLE                       |

MOC EXHIBIT 25

BMO  
 GMD

**BLACK MOUNTAIN OPERATING, LLC**  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

AFE#: 16002

Date: 12/23/2015 County/State L&A NM  
 Lease: Grama Ridge Well No: 411  
 Proposed Depth: 10,000' MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation 7500' lateral 30 bac stages  
 Grama Ridge State Com #111 A-C

| Description   | AFE Amount  |
|---|-------------|
| SURVEY / LOCATION / PERMITS                                     | \$150,000   |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES                       | \$20,000    |
| CONDUCTOR PIPE / WATER WELL / DRIVE PIPE                        | \$75,000    |
| CONTRACT DRILLING - FOOTAGE & TURNKEY                           | \$0         |
| CONTRACT DRILLING - DAYWORK (DRILLING, LOGGING, RU)             | \$752,900   |
| FUEL  | \$17,500    |
| NOB / DE-MOB  | \$62,500    |
| RENTAL TOOL & EQUIPMENT   | \$175,000   |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                               | \$43,000    |
| BITS  | \$120,500   |
| FISHING TOOLS & SERVICES  | \$0         |
| PIPE INSPECTION & COATING                                       | \$0         |
| BOP TESTING   | \$2,500     |
| MUD MATERIALS & CHEMICALS                                       | \$223,000   |
| DISPOSAL / FLOWBACK   | \$50,000    |
| WATER   | \$13,000    |
| CREW QUARTERS   | \$50,000    |
| SPECIAL SERVICES / DIRECTIONAL LOGGING / WIRELINE / PERFORATING | \$292,500   |
| LOGGING / WIRELINE / PERFORATING                                | \$50,000    |
| DRILL STEM & PRODUCTION TESTS                                   | \$0         |
| CORING & CORE ANALYSIS  | \$0         |
| MUD LOGGING   | \$30,000    |
| CEMENT & CEMENT SERVICES  | \$87,500    |
| PLUG, ABANDON & RESTORE   | \$0         |
| TRUCKING & HAULING  | \$20,000    |
| COMPANY SUPERVISION   | \$0         |
| SUPERVISION - CONTRACT  | \$70,500    |
| OVERHEAD  | \$0         |
| CASING CREWS / CONTRACT LABOR                                   | \$25,000    |
| MISCELLANEOUS / OTHER DRILLING COSTS                            | \$5,500     |
| DRILLING WELL INSURANCE   | \$0         |
| CONTINGENCY   | \$738,850   |
| Intangible Drilling   | \$2,603,180 |

|   |           |
|---|-----------|
| SURFACE CASING                              | \$42,375  |
| INTERMEDIATE CASING                         | \$180,000 |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE  | \$27,500  |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES | \$15,000  |
| CONTINGENCY                                 | \$20,480  |
| Tangible Drilling                           | \$291,363 |

|   |             |
|---|-------------|
| SURVEY / LOCATION / PERMITS                         | \$0         |
| LEGAL / TITLE / SURFACE DAMAGES / DAMAGES           | \$35,000    |
| STIMULATION TREATMENT / FRACTURING / ACIDIZING      | \$2,990,000 |
| SAND CONTROL  | \$0         |
| CONTRACT DAYWORK (DRILLING, LOGGING, RUNNING CASIN) | \$30,000    |
| FUEL  | \$0         |
| DOWN HOLE RENTAL TOOL & EQUIPMENT                   | \$7,500     |
| SURFACE RENTAL TOOL & EQUIPMENT                     | \$225,000   |
| COIL TUBING/SNUBBING                                | \$150,000   |
| BITS  | \$3,500     |
| FISHING TOOLS & SERVICES                            | \$0         |
| PIPE INSPECTION & COATING                           | \$0         |
| BOP TESTING   | \$0         |
| MUD MATERIALS & CHEMICALS                           | \$60,000    |
| DISPOSAL / FLOWBACK                                 | \$30,000    |
| WATER   | \$200,000   |
| CREW QUARTERS                                       | \$0         |
| LOGGING / WIRELINE / PERFORATING                    | \$158,000   |
| CEMENT & CEMENTING SERVICES                         | \$83,250    |
| TRUCKING & HAULING                                  | \$0         |
| COMPANY SUPERVISION                                 | \$15,000    |
| SUPERVISION - CONTRACT                              | \$0         |
| OVERHEAD  | \$12,800    |
| CASING CREWS / CONTRACT LABOR                       | \$0         |
| FLOWBACK / WELL TESTS                               | \$25,000    |
| MISCELLANEOUS / OTHER COSTS / FRAC PLUGS            | \$90,000    |
| DRILLING WELL INSURANCE                             | \$77,500    |
| CONTINGENCY   | \$0         |
| CONTINGENCY   | \$418,210   |
| Intangible Completion                               | \$4,811,310 |

|   |           |
|---|-----------|
| PRODUCTION CASING                               | \$204,600 |
| TUBING  | \$60,000  |
| CASING HEAD / TUBING HEAD / CHRISTMAS TREE      | \$35,500  |
| OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT | \$5,500   |
| CONTINGENCY                                     | \$30,880  |
| Tangible Completion                             | \$338,480 |

|                                       |           |
|---------------------------------------|-----------|
| GAS LIFT                              | \$0       |
| PUMPING UNIT / PRIME MOVER / ASSEMBLY | \$0       |
| SUCKER RODS / POLISH RODS             | \$0       |
| MISC FITTINGS & SUPPLIES              | \$77,500  |
| SUBSURFACE EQUIPMENT                  | \$7,500   |
| PACKERS                               | \$25,000  |
| FACILITY LABOR COST                   | \$77,500  |
| TANK BATTERY                          | \$05,000  |
| SEPARATORS / HEATERS / TREATERS       | \$60,000  |
| COMPRESSOR                            | \$0       |
| METERING EQUIPMENT / LACT UNIT        | \$9,750   |
| UTILITY EQUIPMENT                     | \$0       |
| PIPELINES & CONNECTIONS               | \$82,500  |
| COMPANY SUPERVISION                   | \$7,500   |
| CONTINGENCY                           | \$41,725  |
| Facilities                            | \$483,475 |

Total Estimated Well Cost: \$6,298,788

Black Mountain Operating, LLC  
 Approved by: *[Signature]* 11/18/2015

PLEASE INDICATE YOUR APPROVAL AND AUTHORIZATION FOR YOUR PROPORTIONATE PARTE OF THE ESTIMATED EXPENDITURE AS DETAILED ABOVE BY SIGNING BELOW AND RETURNING ONE SIGNED COPY TO BMOG LLC

|             |                             |
|-------------|-----------------------------|
| OWNER/SHIP  | COST TO COMPLETE            |
| DATE        | PARTICIPANTS ESTIMATED COST |
| APPROVED BY | TITLE                       |