

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.

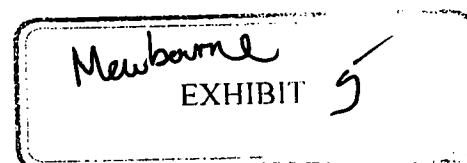
Case No. 15,602

AFFIDAVIT OF NOTICE

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

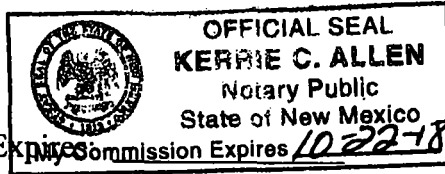
James Bruce, being duly sworn upon his oath, deposes and states:

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 29th day of ~~October, 2016~~ by  
James Bruce.



My Commission Expires

29th day of March, 2017  
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)

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

November 9, 2016

To: Persons on Exhibit A

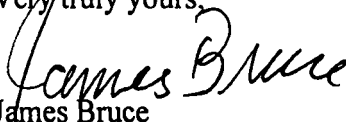
Ladies and gentlemen:

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

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature *[Signature]* ☐ 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 ☐ 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

**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 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

**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

**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

9590 9402 2354 6225 8697 12

7012 3050 0000 6866 9171

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

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature *[Signature]* ☐ 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 ☐ 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

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

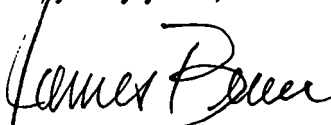
To: Persons on Exhibit A

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

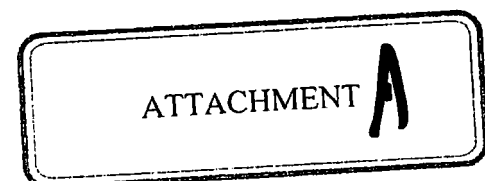


EXHIBIT A

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**

7012 3050 0000 6866 9270

*[Handwritten signature]*

**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™  
**CERTIFIED MAIL™ RECEIPT**  
(Domestic Mail Only. No Insurance Coverage)

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

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

Sent To: Lindy's Living Trust  
6300 Ridglea Place, Suite 1005-  
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

9590 9402 2304 0220 0007 50

2. Article Number (Transfer from service label)

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

- |  |   |
|--|---|
| <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 |

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 9535 1401

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X

*Donna Spout*

☒ Agent

☐ Addressee

B. Received by (Printed Name)

TANVIT 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

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

M-P

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Edward R. Hudson Jr.;  Estate of Josephine T. Hudson;  Zorro Partners, Ltd.  616 Texas Street  Fort Worth, Texas 76102</p>		<p>B. Received by (Printed Name)  <i>[Signature]</i></p> <p>C. Date of Delivery  11-17-16</p>	
<p>2. Article Number (Transfer from service label)  9590 9402 2354 6225 8691 / 14</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>		<p>Restricted Delivery</p>	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com®	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent To EOG Resources, Inc.  P.O. Box 2267  Midland, Texas 79702</p> <p>Street, Apt. No., or PO Box No.</p> <p>City, State, ZIP+4</p>	
<p>PS Form 3800, August 2006</p> <p>See Reverse for Instructions</p>	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com®	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent To Edward R. Hudson Jr.;  Estate of Josephine T. Hudson;  Zorro Partners, Ltd.  616 Texas Street  Fort Worth, Texas 76102</p> <p>Street, Apt. No., or PO Box No.</p> <p>City, State, ZIP+4</p>	
<p>PS Form 3800, August 2006</p> <p>See Reverse for Instructions</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>EOG Resources, Inc.  P.O. Box 2267  Midland, Texas 79702</p>		<p>B. Received by (Printed Name)  <i>[Signature]</i></p> <p>C. Date of Delivery  11-21-16</p>	
<p>2. Article</p> <p>9590 9402 2354 6225 8698 35</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express®</p> <p><input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery</p> <p><input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™</p> <p><input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>		<p>Delivery</p>	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input checked="" type="checkbox"/> <i>Doris Biddy</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Siana Operating LLC  P.O. Box 10303  Midland, Texas 79702</p>		<p>B. Received by (Printed Name)  <i>Doris Biddy</i></p> <p>C. Date of Delivery  11/29/16</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7012 3050 0000 6866 9188</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><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</p>		<p>9590 9402 2354 6225 8698 42</p>	

PS Form 3811, July 2015 PSN 7530-02-000-9053 *M-P* Domestic Return Receipt

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent To: GMT Exploration Company LLC  Suite 2000  Street, Apt. No., or PO Box No.: 1560 Broadway  City, State, ZIP+4: Denver, Colorado 80202</p>	
PS Form 3800, August 2006. See Reverse for Instructions	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent To: Siana Operating LLC  P.O. Box 10303  Street, Apt. No., or PO Box No.: Midland, Texas 79702  City, State, ZIP+4:</p>	
PS Form 3800, August 2006. See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature  <input checked="" type="checkbox"/> <i>Jim Lyman</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>GMT Exploration Company LLC  Suite 2000  1560 Broadway  Denver, Colorado 80202</p>		<p>B. Received by (Printed Name)  <i>Jim Lyman</i></p> <p>C. Date of Delivery  11-28-16</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7012 3050 0000 6866 9201</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>3. Service Type</p> <p><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</p>		<p>9590 9402 2354 6225 8698 28</p>	

PS Form 3811, July 2015 PSN 7530-02-000-9053 *M-P* Domestic Return Receipt

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X <i>EDJ</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Delmar Hudson Lewis Living Trust P.O. Box 2546 Fort Worth, Texas 76113</p>		<p>B. Received by (Printed Name) C. Date of Delivery 8/11/11</p>	
<p>9590 9402 2354 6225 8697 27</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article 1 7012 3050 0000 6866 9263</p>		<p>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         </p>	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent To BTA Oil Producers, LLC 104 South Pecos Street Midland, Texas 79701</p> <p>Street, Apt. No., or PO Box No.</p> <p>City, State, ZIP+4</p>	
<p>PS Form 3800, August 2006 See Reverse for Instructions</p>	

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
<p>Sent To Delmar Hudson Lewis Living Trust P.O. Box 2546 Fort Worth, Texas 76113</p> <p>Street, Apt. No., or PO Box No.</p> <p>City, State, ZIP+4</p>	
<p>PS Form 3800, August 2006 See Reverse for Instructions</p>	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X <i>Josh Box</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>BTA Oil Producers, LLC 104 South Pecos Street Midland, Texas 79701</p>		<p>B. Received by (Printed Name) C. Date of Delivery Josh Box</p>	
<p>9590 9402 2354 6225 8697 27</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article 1 7012 3050 0000 6866 9232</p>		<p>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         </p>	
<p>PS Form 3811, July 2015 PSN 7530-02-000-9053</p>		<p>Domestic Return Receipt</p>	

# 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:

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

*Saris Key*

☒ Agent

☐ Addressee

## B. Received by (Printed Name)

*Saris Key*

## C. Date of Delivery

*11-17-16*

## D. Is delivery address different from item 1? If YES, enter delivery address below:

☒ Yes

☐ 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 3500) 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 \$

Certified Fee

Return Receipt Fee  
(Endorsement Required)

Restricted Delivery Fee  
(Endorsement Required)

Total Postage & Fees \$

Postmark  
Here

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

# 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 \$

Certified Fee

Return Receipt Fee  
(Endorsement Required)

Restricted Delivery Fee  
(Endorsement Required)

Total Postage & Fees \$

Postmark  
Here

Sent To

Street, Apt. No.,  
or PO Box No.

CML Exploration, LLC  
P.O. Box 890

City, State, ZIP+4

Snyder, Texas 79550

PS Form 3800, August 2006

See Reverse for Instructions

# 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

*Beatriz Lozano*

☐ Agent

☐ Addressee

## B. Received by (Printed Name)

*11-18*

## D. Is delivery address different from item 1? If YES, enter delivery address below:

☐ Yes

☐ 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 3500)

Restricted Delivery

M-P

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to:</p> <div style="text-align: center; padding: 10px;"> <p>Overton Energy Investments VI, LLC 4265 San Felipe, Suite 1040 Houston, Texas 77027</p> </div> <p>2. FIM Number: 7012 3050 0000 6866 9300</p>	<p>A. Signature: <i>Kathy Woods</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X <i>Kathy Woods</i> <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name): <i>Kathy Woods</i> C. Date of Delivery: <i>7/17/16</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p> <p>3. Service Type: <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p> <p>4. Article Number (Transfer from envelope label): 7012 3050 0000 6866 9300 (over \$500)</p>

PS Form 3811, July 2015 PSN 7530-02-000-9053 M-P Domestic Return Receipt

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<p>Postage \$</p> <p>Certified Fee</p> <p>Return Receipt Fee (Endorsement Required)</p> <p>Restricted Delivery Fee (Endorsement Required)</p> <p>Total Postage &amp; Fees \$</p>	<p>Postmark Here</p>
<p>Sent To: <i>Regeneration Energy Corporation</i>  P.O. Box 210  Artesia, New Mexico 88210</p> <p>Street, Apt. No., or PO Box No.</p> <p>City, State, ZIP+4</p>	
PS Form 3800, August 2006 <span style="margin-left: 50px;">See Reverse for Instructions</span>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>■ Complete items 1, 2, and 3.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p> <p>1. Article Addressed to:</p> <div style="text-align: center; padding: 10px;"> <p>Regeneration Energy Corporation P.O. Box 210 Artesia, New Mexico 88210</p> </div> <p>2. Article Number (Transfer from envelope label): 7012 3050 0000 6866 9225 (over \$500)</p>	<p>A. Signature: <i>Raye Miller</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>X <i>Raye Miller</i> <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name): <i>Raye Miller</i> C. Date of Delivery: <i>11/2/16</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:</p> <p>3. Service Type: <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail Restricted Delivery  <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery</p>

PS Form 3811, July 2015 PSN 7530-02-000-9053 M-P Domestic Return Receipt

U.S. Postal Service™ CERTIFIED MAIL™ RECEIPT (Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<p>Postage \$</p> <p>Certified Fee</p> <p>Return Receipt Fee (Endorsement Required)</p> <p>Restricted Delivery Fee (Endorsement Required)</p> <p>Total Postage &amp; Fees \$</p>	<p>Postmark Here</p>
<p>Sent To: <i>Overton Energy Investments VI, LLC</i>  4265 San Felipe, Suite 1040  Houston, Texas 77027</p> <p>Street, Apt. No., or PO Box No.</p> <p>City, State, ZIP+4</p>	
PS Form 3800, August 2006 <span style="margin-left: 50px;">See Reverse for Instructions</span>	

**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:

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)  
*M. P. 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

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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

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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

**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

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 8



**TABLE OF CONTENTS**

Article	Title	Page
I.	<b>DEFINITIONS</b>	1
II.	<b>EXHIBITS</b>	2
III.	<b>INTERESTS OF PARTIES</b>	2
	A. OIL AND GAS INTERESTS	2
	B. INTERESTS OF PARTIES IN COSTS AND PRODUCTION	2
	C. SUBSEQUENTLY CREATED INTERESTS	2
IV.	<b>TITLES</b>	3
	A. TITLE EXAMINATION	3
	B. LOSS OR FAILURE OF TITLE	3
	1. Failure of Title	3
	2. Loss by Non-Payment or Erroneous Payment of Amount Due	3
	3. Other Losses	4
	4. Curing Title	4
V.	<b>OPERATOR</b>	4
	A. DESIGNATION AND RESPONSIBILITIES OF OPERATOR	4
	B. RESIGNATION OR REMOVAL OF OPERATOR AND SELECTION OF SUCCESSOR	4
	1. Resignation or Removal of Operator	4
	2. Selection of Successor Operator	4
	3. Effect of Bankruptcy	4
	C. EMPLOYEES AND CONTRACTORS	4
	D. RIGHTS AND DUTIES OF OPERATOR	5
	1. Competitive Rates and Use of Affiliates	5
	2. Discharge of Joint Account Obligations	5
	3. Protection from Liens	5
	4. Custody of Funds	5
	5. Access to Contract Area and Records	5
	6. Filing and Furnishing Governmental Reports	5
	7. Drilling and Testing Operations	5
	8. Cost Estimates	5
	9. Insurance	5
VI.	<b>DRILLING AND DEVELOPMENT</b>	5
	A. INITIAL WELL	5
	B. SUBSEQUENT OPERATIONS	6
	1. Proposed Operations	6
	2. Operations by Less Than All Parties	6
	3. Stand-By Costs	7
	4. Deepening	8
	5. Sidetracking	8
	6. Order of Preference of Operations	8
	7. Conformity to Spacing Pattern	9
	8. Paying Wells	9
	9. Spudder Rigs	9
	10. Multi-Well Pads	9
	C. COMPLETION OF WELLS; REWORKING AND PLUGGING BACK	9
	1. Completion	9
	2. Rework, Recomplete or Plug Back	9
	D. OTHER OPERATIONS	10
	E. ABANDONMENT OF WELLS	10
	1. Abandonment of Dry Holes	10
	2. Abandonment of Wells That Have Produced	10
	3. Abandonment of Non-Consent Operations	10
	F. TERMINATION OF OPERATIONS	11
	G. TAKING PRODUCTION IN KIND	11
	(Option 1) Gas Balancing Agreement	11
	(Option 2) No Gas Balancing Agreement	11
VII.	<b>EXPENDITURES AND LIABILITY OF PARTIES</b>	12
	A. LIABILITY OF PARTIES	12
	B. LIENS AND SECURITY INTERESTS	12
	C. ADVANCES	12
	D. DEFAULTS AND REMEDIES	13
	1. Suspension of Rights	13
	2. Suit for Damages	13
	3. Deemed Non-Consent	13
	4. Advance Payment	13
	5. Costs and Attorneys' Fees	13
	E. RENTALS, SHUT-IN WELL PAYMENTS AND MINIMUM ROYALTIES	13
	F. TAXES	13
VIII.	<b>ACQUISITION, MAINTENANCE OR TRANSFER OF INTEREST</b>	14
	A. SURRENDER OF LEASES	14
	B. RENEWAL OR EXTENSION OF LEASES	14
	C. ACREAGE OR CASH CONTRIBUTIONS	14
	D. ASSIGNMENT; MAINTENANCE OF UNIFORM INTEREST	15

**TABLE OF CONTENTS**

Article	Title	Page
	E. WAIVER OF RIGHTS TO PARTITION .....	15
	<del>F. PREFERENTIAL RIGHT TO PURCHASE .....</del>	<del>15</del>
IX.	<u>INTERNAL REVENUE CODE ELECTION</u> .....	15
X.	<u>CLAIMS AND LAWSUITS</u> .....	15
XI.	<u>FORCE MAJEURE</u> .....	16
XII.	<u>NOTICES</u> .....	16
XIII.	<u>TERM OF AGREEMENT</u> .....	16
XIV.	<u>COMPLIANCE WITH LAWS AND REGULATIONS</u> .....	16
	A. LAWS, REGULATIONS AND ORDERS .....	16
	B. GOVERNING LAW .....	16
	C. REGULATORY AGENCIES .....	16
XV.	<u>MISCELLANEOUS</u> .....	17
	A. EXECUTION .....	17
	B. SUCCESSORS AND ASSIGNS .....	17
	C. COUNTERPARTS .....	17
	D. SEVERABILITY .....	17
XVI.	<u>OTHER PROVISIONS</u> .....	18
	A. CONFLICT OF TERMS .....	18
	B. OPERATOR'S DUTY .....	18
	C. PRIORITY OF OPERATIONS - HORIZONTAL WELLS .....	18

## OPERATING AGREEMENT

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

## WITNESSETH:

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

NOW, THEREFORE, it is agreed as follows:

## ARTICLE I.

## DEFINITIONS

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

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

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

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

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

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

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 operation conducted under the provisions of this agreement.

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 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 established by the pattern of drilling in the Contract Area unless fixed by express agreement of the Drilling Parties.

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 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 Gas Leases or Oil and Gas Interests within the Drilling Unit on or under which the wellbore, including the Lateral, is located.

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 the date a rig capable of drilling a Horizontal Well to its Total Measured Depth has moved on to location.

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

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

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

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

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

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

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

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

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

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

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

U. The term "Sidetrack" shall mean the directional control and intentional deviation of a well from vertical so as to change the bottom hole location unless done to straighten the hole or drill around junk in the hole to overcome other mechanical difficulties. When used in connection with a Horizontal Well, the term "Sidetrack" shall mean the directional control and deviation of a well outside the existing 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 around junk in the hole or to overcome other mechanical difficulties.

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

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

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

X. The term "Total Measured Depth," when used in connection with a Horizontal Well, shall mean the distance from the surface of the ground to the Terminus, as measured along and including the vertical component of the well and Lateral(s). When the proposed 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 deemed to read "Total Measured Depth" insofar as it applies to such well.

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

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

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

## ARTICLE II EXHIBITS

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

☒ A. Exhibit "A," shall include the following information:

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

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

☒ C. Exhibit "C," Accounting Procedure.

☒ D. Exhibit "D," Insurance.

☒ E. Exhibit "E," Gas Balancing Agreement.

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

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

☒ H. Other: Model Form Recording Supplement

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

## ARTICLE III INTERESTS OF PARTIES

### A. Oil and Gas Interests:

If any party owns an Oil and Gas Interest in the Contract Area, that Interest shall be treated for all purposes of this agreement 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 thereof shall be deemed to own both royalty interest in such lease and the interest of the lessee thereunder.

### B. Interests of Parties in Costs and Production:

Unless changed by other provisions, all costs and liabilities incurred in operations under this agreement shall be borne and paid, 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 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 payment of royalties and other burdens on production as described hereafter.

Regardless of which party has contributed any Oil and Gas Lease or Oil and Gas Interest on which royalty or other burdens may be payable and except as otherwise expressly provided in this agreement, each party shall pay or deliver, or cause to be paid or delivered, all burdens on its share of the production from the Contract Area up to, but not in excess of, twenty five percent (25%) and shall indemnify, defend and hold the other parties free from any liability therefor. Except as otherwise expressly provided in this agreement, if any party has contributed hereto any Lease or Interest which is burdened with any royalty, overriding royalty, production payment or other burden on production in excess of the amounts stipulated above, such party so burdened shall assume and alone bear all such excess obligations and shall indemnify, defend and hold the other parties hereto harmless from any and all claims attributable to such excess burden. 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 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 has contributed to this agreement, and shall indemnify, defend and hold the other parties free from any liability therefor.

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 royalty owner, and if such other party's lessor or royalty owner should demand and receive settlement on a higher price basis, the party contributing the affected Lease shall bear the additional royalty burden attributable to such higher price.

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

### C. Subsequently Created Interests:

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

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

James Allen Brinson Kenneth S. Waits

Type or print name cm AK

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

Type or print name AK

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. \_\_\_\_\_

WERTEN 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 H. 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 \_\_\_\_\_

R. 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. \_\_\_\_\_

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. \_\_\_\_\_

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  
Type or print name

Title Trustee

Date

Tax ID or S.S. No.

MARK G. KALPAKIS IRREVOCABLE TRUST

By

Mark G. Kalpakis  
Type or print name

Mark G. Kalpakis

Title Trustee

Date

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

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. \_\_\_\_\_

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

By TOL 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. \_\_\_\_\_

Kimberly Stangor  
Carmen McCaskey

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

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 F. 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:

Initial, Substitute and Subsequent Wells

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	0.021044%
	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

Company  
Name  
Title

*Challenger Crude Ltd*  
*VP Land/Sec Council*

EXHIBIT 9

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 KATEMAN*  
*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*

Corey Mitchell  
Landman

Company:

Name:

Title:

*Seeligson Oil Co. Ltd.*  
*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

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 N. 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: R. C. Becker  
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").

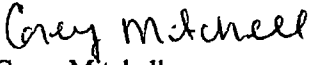
Mewbourne is seeking the support of the Non-Operators under the JOA to continue with the current development plan with Mewbourne as Operator of the captioned Section 15 and develop the property accordingly without interference from BMO.

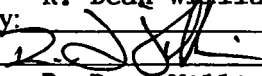
Please indicate your support by signing and returning this letter to Mewbourne in the space provided below.

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  
Landman

Company: R. Dean Williams Irrevocable Trust  
Name:   
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: 7160  
Title: PRESIDENT

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



ENERGY, INC.

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 understating 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.

A handwritten signature in black ink, appearing to read "Curtis N. Leonard", written in a cursive style.

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**  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

AFE#: 16007

Date: 12/8/2015  
 Lease: Duke Federal 10  
 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

County/State: Lea, NM  
 Well No. 26H

**Duke Federal 10 #26H - 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 & TURNKEY		\$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		\$2,500
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		\$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 SHDES		\$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
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		\$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		\$25,000
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		\$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		\$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		\$483,475

Total Estimated Well Cost \$8,272,371

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 BMOO LLC

OWNERSHIP:

COST TO COMPLETE:

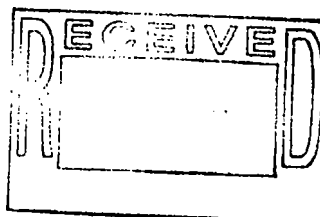
DATE:

PARTICIPANTS ESTIMATED COST:

APPROVED BY:

TITLE:

EXHIBIT //



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

AFE#: 16009

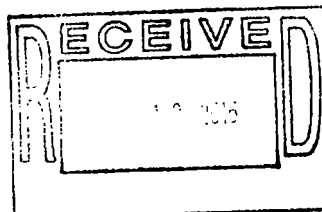
Date: 12/2/2018 County/State: Lea, NM  
 Lease: Duke Federal 10 Well No: 18H  
 Surface Location: SEC 10, T-23S, R-34E  
 Proposed Depth: 18,667' MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

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

Madera Development AFE		AFE Amounts
Description		
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		\$700,000
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		\$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 CABLE		\$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		\$156,000
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		\$75,000
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**  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

AFE#: 16008

Date: 12/29/2016 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		AFE Amounts
Description		
SURVEY / LOCATION / PERMITS		\$150,000
LEGAL / TITLE / SURFACE DAMAGES / DAMAGES		\$20,000
CONDUCTOR PIPE / WATER WELL / DRIVE PIPE		\$29,000
CONTRACT DRILLING - FOOTAGE & TURNKEY		\$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
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		\$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:

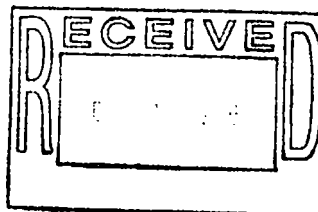
COST TO COMPLETE:

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 Lease: Duke Federal 10 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		
<b>Duke Federal 10 #26H - AFE</b>		
<b>Maders Development AFE</b>		
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)		\$726,000
FUEL		\$77,500
MOB / 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		\$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		\$62,500
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		\$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		\$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		\$60,000
CASING HEAD / TUBING HEAD / CHRISTMAS TREE		\$35,500
OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT		\$5,500
<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		\$65,000
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>\$7,220,337</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**  
**AUTHORIZATION FOR EXPENDITURE**  
**DRILL & COMPLETE NEW WELL**

AFE#: 16009

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: 18,507 MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation, 7500' lateral, 30 frac stages

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

**Madera 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	\$708,000
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	\$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>\$2,302,600</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	\$158,000
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>\$3,807,350</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>\$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	\$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>\$7,200,237</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: 12/2/2016 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**

**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	\$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>\$2,312,800</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	\$2,680,000
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	\$90,000
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	\$60,000
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	\$65,000
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>

**Total Estimated Well Cost** **\$7,310,337**

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: \_\_\_\_\_



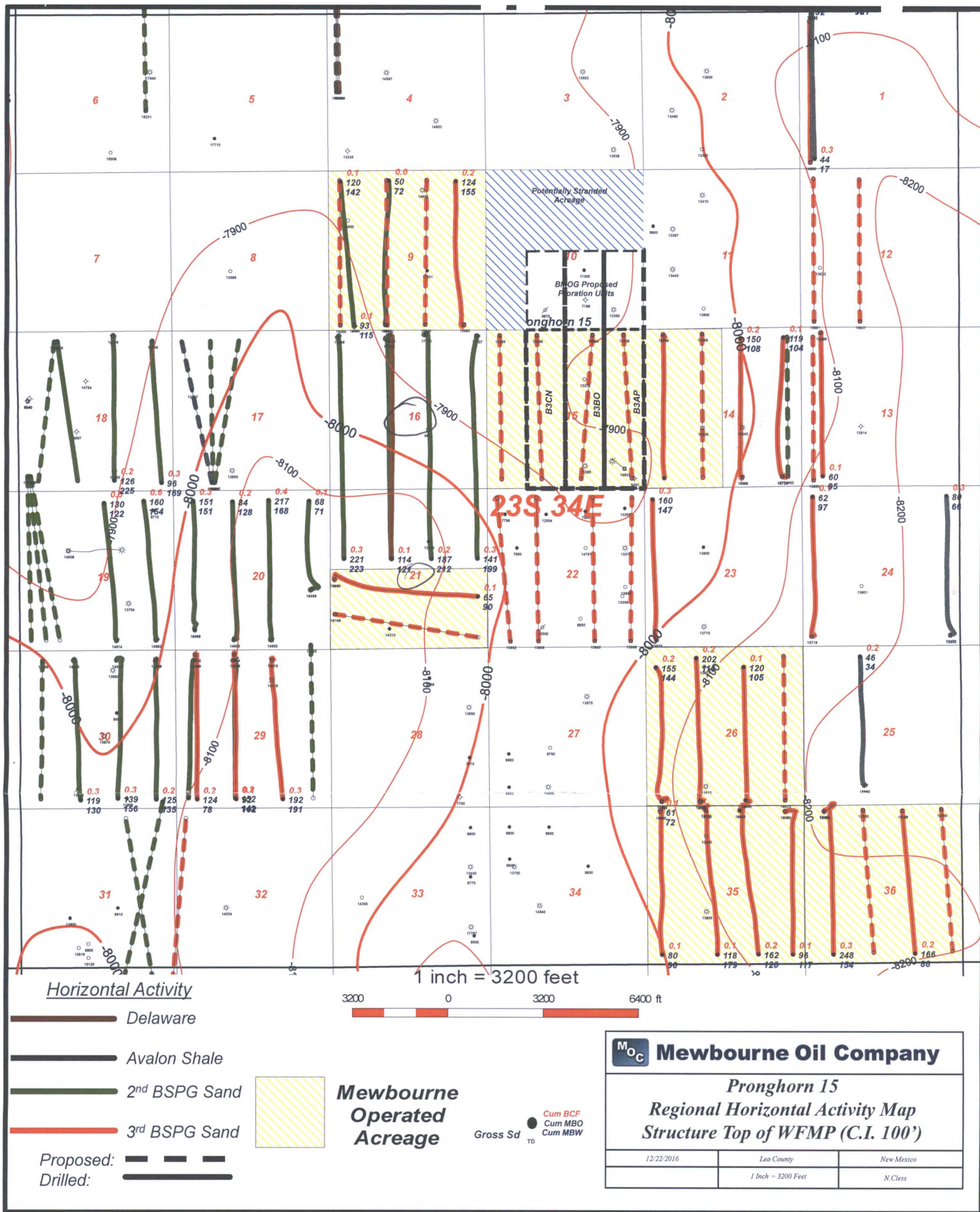
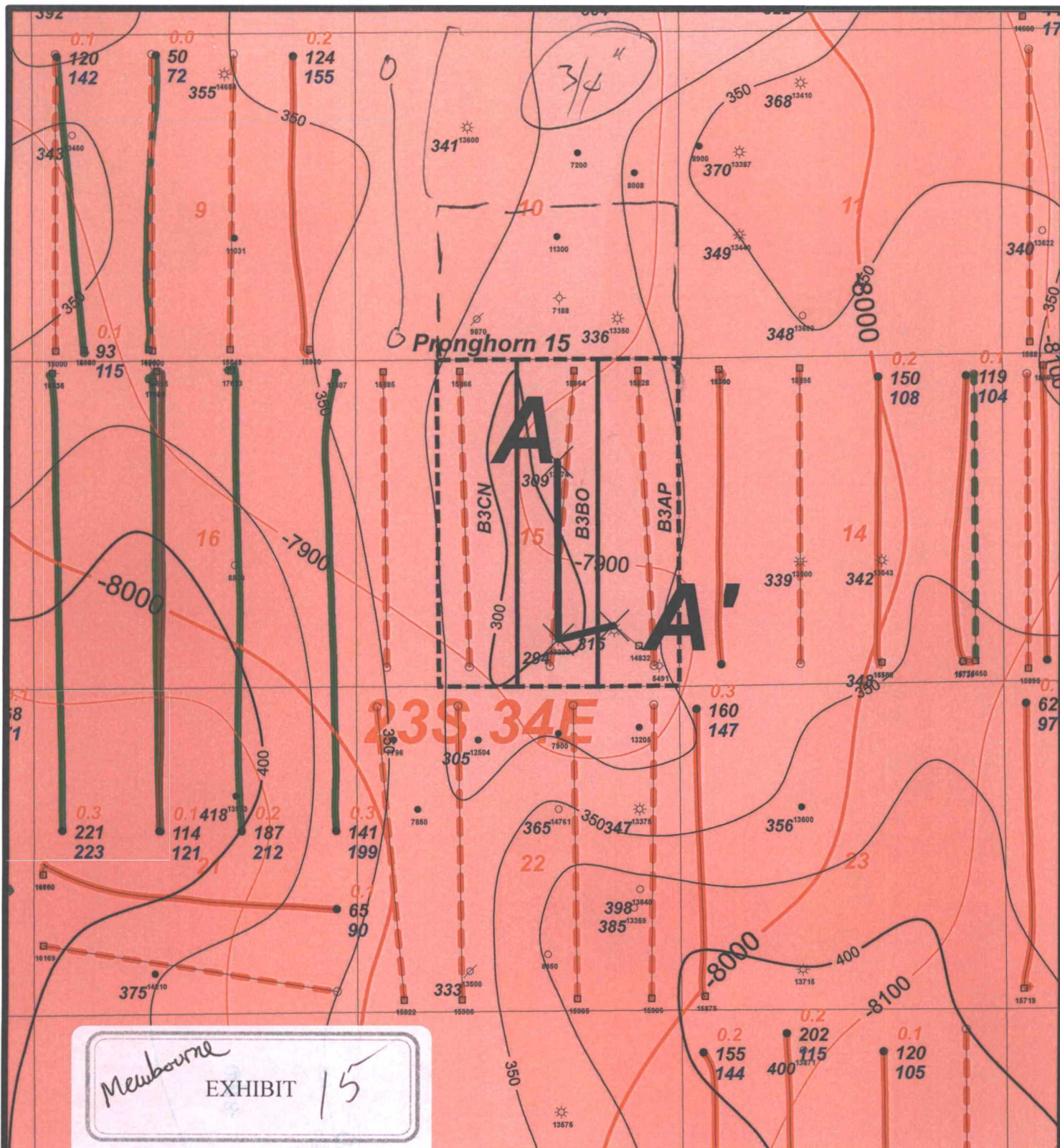


EXHIBIT 14

14 horizontal wells





1 inch = 2250 feet

### Horizontal Activity

2250 0 2250 4500 ft

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

Proposed:   
 Drilled:

Gross Sd

● Cum BCF  
 ● Cum MBO  
 ● Cum MBW



**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. less



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

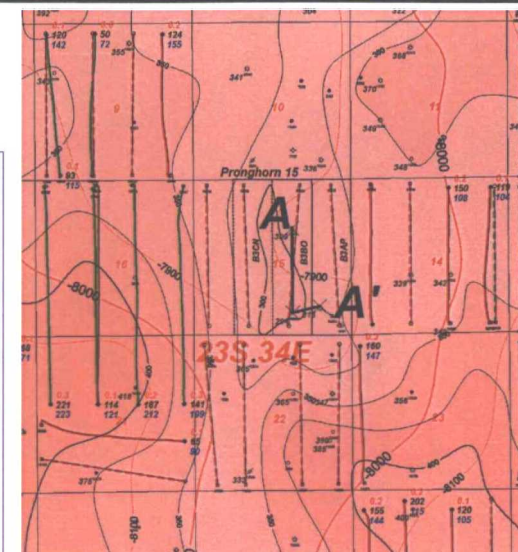
DEVON ENERGY PROD  
MAD DOG 15 FEDERAL 1  
Reference=KB  
Datum=3431.00  
660 FSL/1980 FEL  
TWP: 23 S - Range: 34 E - Sec. 15

A'

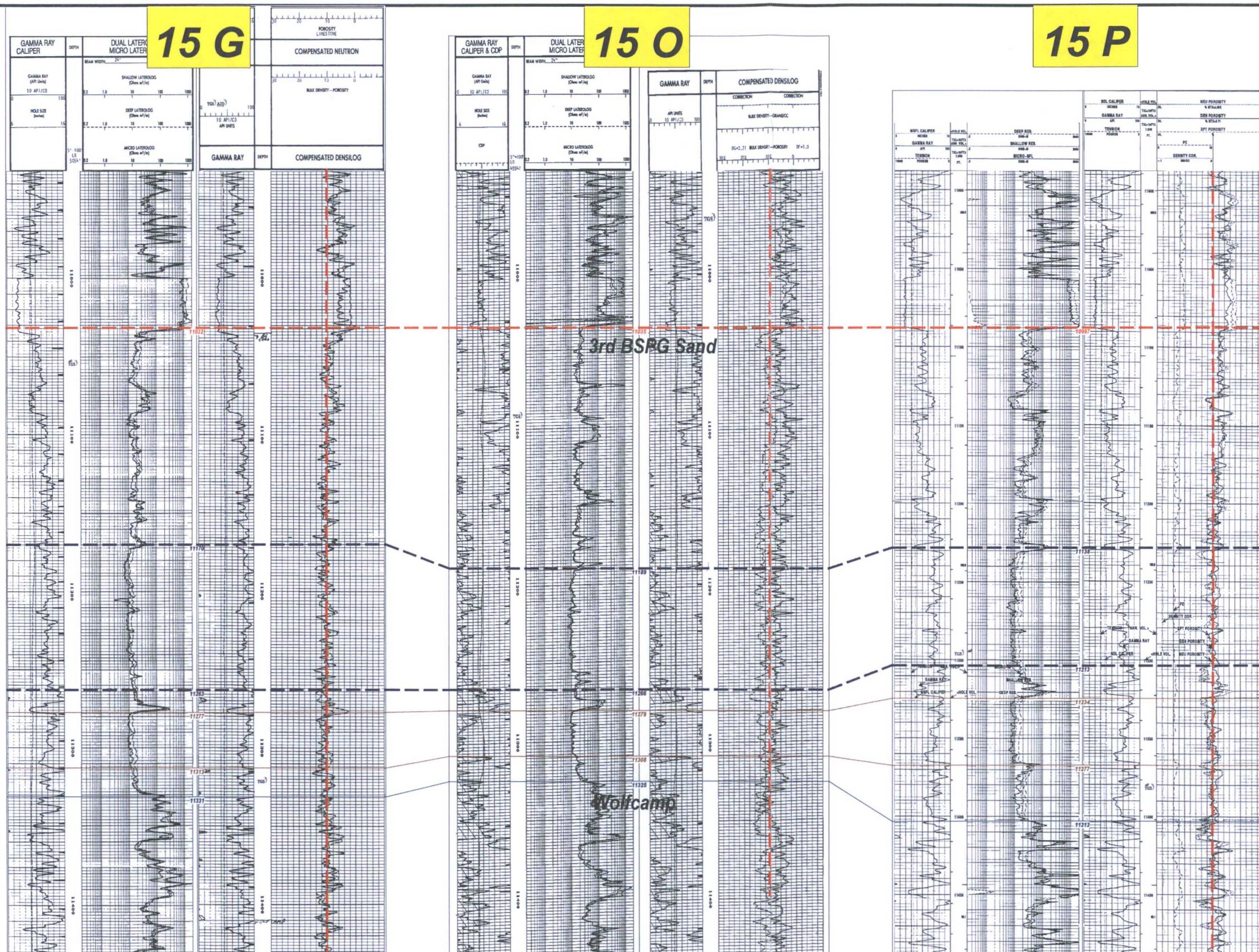
15 G

15 O

15 P



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



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

Horizontal  
Target

EXHIBIT 16

Pronghorn 15  
3rd BSPG A-A'



**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

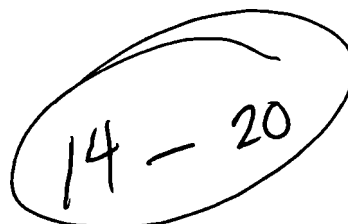
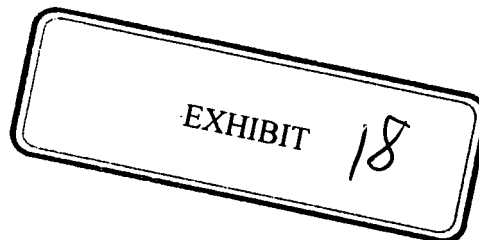
SL: 185' FNL & 660' FEL

BHL: 330' FSL & 450' FEL

Plan: Design #1

## Standard Planning Report

30 November, 2016



# 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		

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

Well	Sec 15, T23S, R34E					
Well Position	+N/-S	0.0 usft	Northing:	478,067.00 usft	Latitude:	32° 18' 40.459 N
	+E/-W	0.0 usft	Easting:	772,574.00 usft	Longitude:	103° 27' 3.849 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	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>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	11/7/2016	6.87	60.15	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>	<b>Direction (°)</b>	
	0.0	0.0	0.0	176.96	

<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	
10,786.5	0.00	0.00	10,786.5	0.0	0.0	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

Database:	Hobbs	Local Co-ordinate Reference:	Site Pronghorn 15 B3AP Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	KB @ 3414.0usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3414.0usft
Site:	Pronghorn 15 B3AP Fed Com 1H	North Reference:	Grid
Well:	Sec 15, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 450' FEL		
Design:	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
SL: 185' FNL & 660' FEL, Sec15									
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

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

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



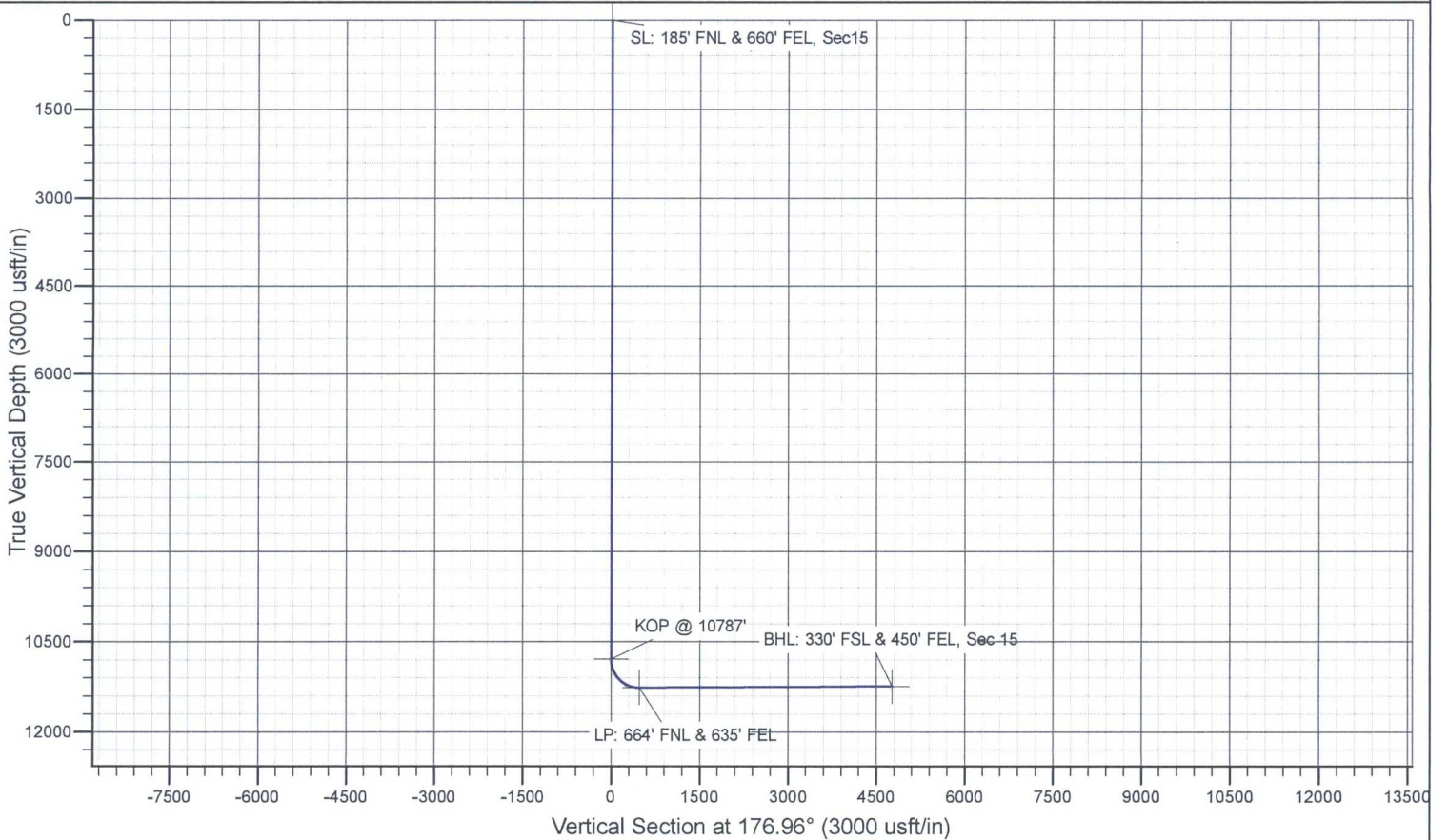
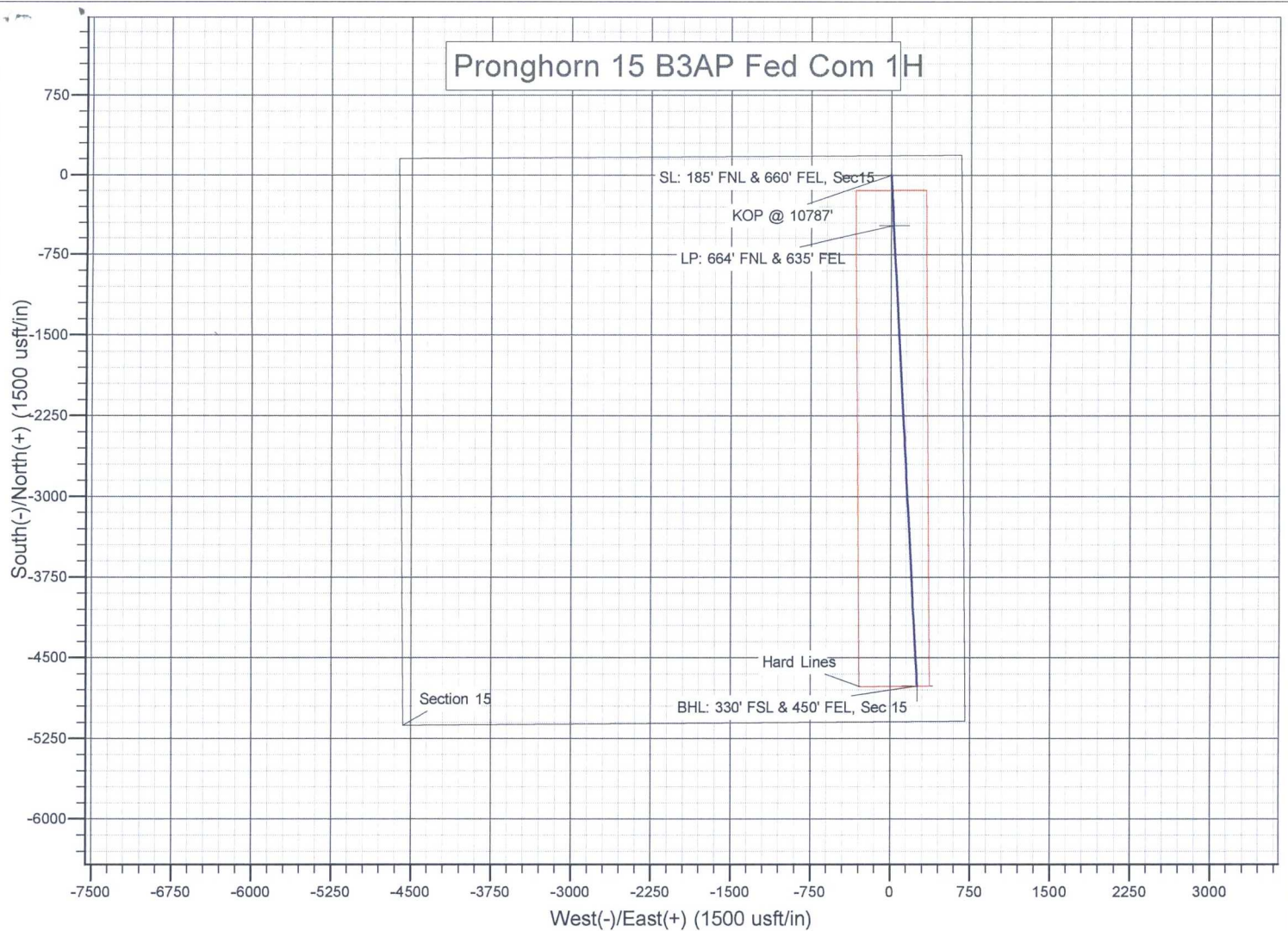
## Planning Report

<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	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SL: 185' FNL & 660' FEL	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
- plan hits target center									
- Point									
KOP @ 10787'	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
- plan hits target center									
- Point									
BHL: 330' FSL & 450' FE	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
- plan hits target center									
- Point									
LP: 664' FNL & 635' FEL	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
- plan hits target center									
- Point									

# 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

19

# 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>From:</b>	Map	<b>Easting:</b>	771,534.00 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 18' 40.475 N
		<b>Longitude:</b>	103° 27' 15.967 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> 478,060.00 usft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b> 771,534.00 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	3,421.0 usft
		<b>Latitude:</b>	32° 18' 40.475 N
		<b>Longitude:</b>	103° 27' 15.967 W
		<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 (nT)</b>
	IGRF2010	2/17/2016	6.96	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) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	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

Database:	Hobbs	Local Co-ordinate Reference:	Site Pronghorn 15 B3BO Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3421.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3421.0usft (Original Well Elev)
Site:	Pronghorn 15 B3BO Fed Com #1H	North Reference:	Grid
Well:	Sec 15, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2150' FEL		
Design:	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
SL: 185' FNL & 1700' FEL									
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

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

Database:	Hobbs	Local Co-ordinate Reference:	Site Pronghorn 15 B3BO Fed Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3421.0usft (Original Well Elev)
Project:	Lea County, New Mexico	MD Reference:	WELL @ 3421.0usft (Original Well Elev)
Site:	Pronghorn 15 B3BO Fed Com #1H	North Reference:	Grid
Well:	Sec 15, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 2150' FEL		
Design:	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)
10,700.0	0.00	0.00	10,700.0	0.0	0.0	0.0	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
10,806.5	0.00	0.00	10,806.5	0.0	0.0	0.0	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	0.00
11,000.0	23.22	184.89	10,994.7	-38.5	-3.3	38.7	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	0.00
11,189.5	45.96	184.89	11,149.8	-145.0	-12.4	145.5	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	0.00
11,300.0	59.22	184.89	11,216.7	-232.2	-19.9	233.1	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	0.00
11,500.0	83.22	184.89	11,280.7	-419.5	-35.9	421.1	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	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
11,700.0	90.09	184.89	11,283.8	-618.7	-52.9	620.9	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
11,900.0	90.09	184.89	11,283.4	-817.9	-70.0	820.9	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
12,100.0	90.09	184.89	11,283.1	-1,017.2	-87.0	1,020.9	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
12,300.0	90.09	184.89	11,282.8	-1,216.5	-104.1	1,220.9	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
12,500.0	90.09	184.89	11,282.5	-1,415.8	-121.1	1,420.9	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
12,700.0	90.09	184.89	11,282.1	-1,615.0	-138.2	1,620.9	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
12,900.0	90.09	184.89	11,281.8	-1,814.3	-155.3	1,820.9	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
13,100.0	90.09	184.89	11,281.5	-2,013.6	-172.3	2,020.9	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
13,300.0	90.09	184.89	11,281.2	-2,212.8	-189.4	2,220.9	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
13,500.0	90.09	184.89	11,280.8	-2,412.1	-206.4	2,420.9	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
13,700.0	90.09	184.89	11,280.5	-2,611.4	-223.5	2,620.9	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
13,900.0	90.09	184.89	11,280.2	-2,810.7	-240.5	2,820.9	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
14,100.0	90.09	184.89	11,279.9	-3,009.9	-257.6	3,020.9	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
14,300.0	90.09	184.89	11,279.5	-3,209.2	-274.6	3,220.9	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
14,500.0	90.09	184.89	11,279.2	-3,408.5	-291.7	3,420.9	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
14,700.0	90.09	184.89	11,278.9	-3,607.7	-308.7	3,620.9	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
14,900.0	90.09	184.89	11,278.6	-3,807.0	-325.8	3,820.9	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
15,100.0	90.09	184.89	11,278.2	-4,006.3	-342.8	4,020.9	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
15,300.0	90.09	184.89	11,277.9	-4,205.6	-359.9	4,220.9	0.00	0.00	0.00

## Planning Report

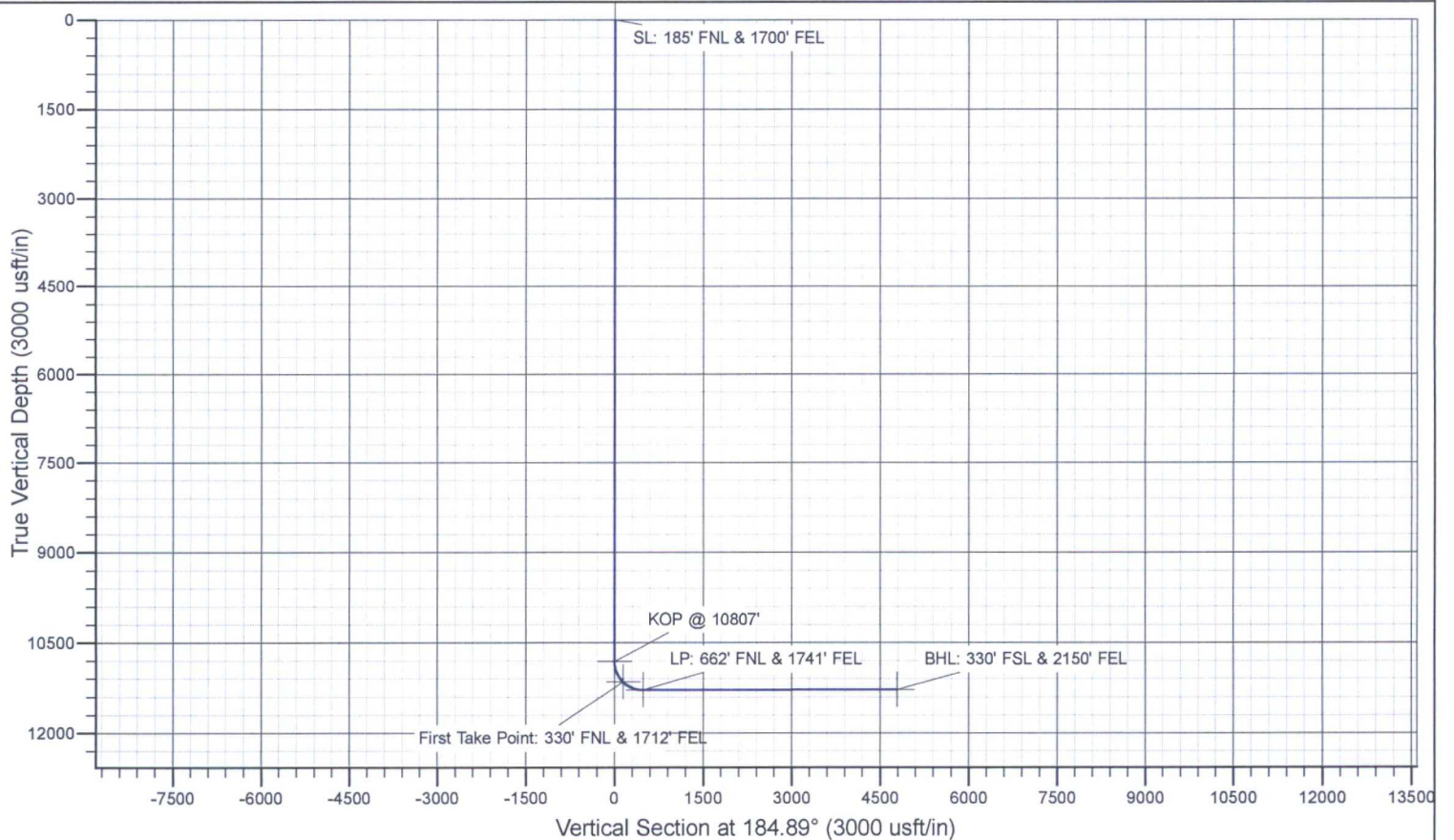
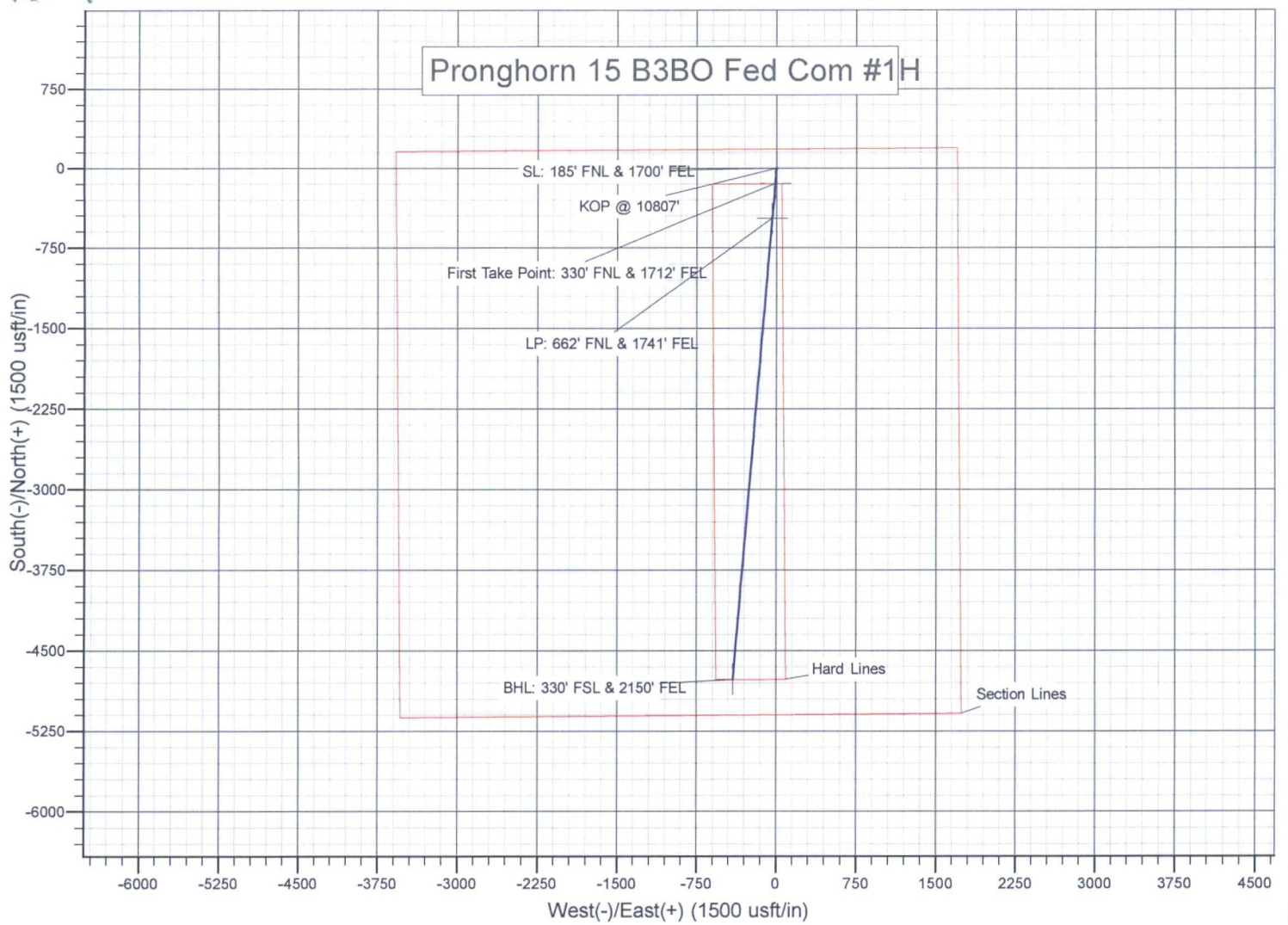
<b>Database:</b>	Hobbs	<b>Local Co-ordinate Reference:</b>	Site Pronghorn 15 B3BO Fed Com #1H
<b>Company:</b>	Mewbourne Oil Company	<b>TVD Reference:</b>	WELL @ 3421.0usft (Original Well Elev)
<b>Project:</b>	Lea County, New Mexico	<b>MD Reference:</b>	WELL @ 3421.0usft (Original Well Elev)
<b>Site:</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)
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
BHL: 330' FSL & 2150' FEL									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 185' FNL & 1700' FE - plan hits target center - 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' - plan hits target center - 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 - plan hits target center - 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 - plan hits target center - 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 - plan hits target center - 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		

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

Well	Sec 15, T23S, R34E					
Well Position	+N/-S	0.0 usft	Northing:	478,047.00 usft	Latitude:	32° 18' 40.498 N
	+E/-W	0.0 usft	Easting:	769,656.00 usft	Longitude:	103° 27' 37.849 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	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 Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld 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
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

Database:	Hobbs	Local Co-ordinate Reference:	Site Pronghorn 15 B3CN Fed Com 1H
Company:	Mewbourne Oil Company	TVD Reference:	KB @ 3424.0usft
Project:	Lea County, New Mexico	MD Reference:	KB @ 3424.0usft
Site:	Pronghorn 15 B3CN Fed Com 1H	North Reference:	Grid
Well:	Sec 15, T23S, R34E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1,800' FWL		
Design:	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)
5,400.0	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 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)
10,800.0	0.00	0.00	10,800.0	0.0	0.0	0.0	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
10,850.0	2.82	178.31	10,850.0	-0.6	0.0	0.6	12.00	12.00	0.00
10,875.0	5.82	178.31	10,874.9	-2.5	0.1	2.5	12.00	12.00	0.00
10,900.0	8.82	178.31	10,899.7	-5.6	0.2	5.6	12.00	12.00	0.00
10,925.0	11.82	178.31	10,924.3	-10.1	0.3	10.1	12.00	12.00	0.00
10,950.0	14.82	178.31	10,948.6	-15.9	0.5	15.9	12.00	12.00	0.00
10,975.0	17.82	178.31	10,972.6	-22.9	0.7	22.9	12.00	12.00	0.00
11,000.0	20.82	178.31	10,996.2	-31.2	0.9	31.2	12.00	12.00	0.00
11,025.0	23.82	178.31	11,019.3	-40.7	1.2	40.7	12.00	12.00	0.00
11,050.0	26.82	178.31	11,041.9	-51.3	1.5	51.4	12.00	12.00	0.00
11,075.0	29.82	178.31	11,063.9	-63.2	1.9	63.2	12.00	12.00	0.00
11,100.0	32.82	178.31	11,085.3	-76.2	2.3	76.2	12.00	12.00	0.00
11,125.0	35.82	178.31	11,105.9	-90.3	2.7	90.3	12.00	12.00	0.00
11,150.0	38.82	178.31	11,125.8	-105.4	3.1	105.5	12.00	12.00	0.00
11,175.0	41.82	178.31	11,144.9	-121.6	3.6	121.6	12.00	12.00	0.00
11,200.0	44.82	178.31	11,163.1	-138.7	4.1	138.8	12.00	12.00	0.00
11,225.0	47.82	178.31	11,180.3	-156.8	4.6	156.9	12.00	12.00	0.00
11,250.0	50.82	178.31	11,196.6	-175.7	5.2	175.8	12.00	12.00	0.00
11,275.0	53.82	178.31	11,211.9	-185.5	5.8	195.6	12.00	12.00	0.00
11,300.0	56.82	178.31	11,226.1	-216.1	6.4	216.1	12.00	12.00	0.00
11,325.0	59.82	178.31	11,239.3	-237.3	7.0	237.4	12.00	12.00	0.00
11,350.0	62.81	178.31	11,251.3	-259.2	7.7	259.3	12.00	12.00	0.00
11,375.0	65.81	178.31	11,262.1	-281.8	8.3	281.9	12.00	12.00	0.00
11,400.0	68.81	178.31	11,271.7	-304.8	9.0	304.9	12.00	12.00	0.00
11,425.0	71.81	178.31	11,280.2	-328.3	9.7	328.5	12.00	12.00	0.00
11,450.0	74.81	178.31	11,287.3	-352.3	10.4	352.4	12.00	12.00	0.00
11,475.0	77.81	178.31	11,293.2	-376.5	11.1	376.7	12.00	12.00	0.00
11,500.0	80.81	178.31	11,297.9	-401.1	11.9	401.3	12.00	12.00	0.00
11,525.0	83.81	178.31	11,301.2	-425.9	12.6	426.0	12.00	12.00	0.00
11,550.0	86.81	178.31	11,303.3	-450.8	13.3	451.0	12.00	12.00	0.00
11,574.6	89.76	178.31	11,304.0	-475.3	14.1	475.5	12.00	12.00	0.00
11,600.0	89.76	178.31	11,304.1	-500.7	14.8	500.9	0.00	0.00	0.00
11,700.0	89.76	178.31	11,304.5	-600.7	17.8	600.9	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
11,900.0	89.76	178.31	11,305.4	-800.6	23.7	800.9	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
12,100.0	89.76	178.31	11,306.2	-1,000.5	29.6	1,000.9	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
12,300.0	89.76	178.31	11,307.0	-1,200.4	35.5	1,200.9	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
12,500.0	89.76	178.31	11,307.9	-1,400.3	41.4	1,400.9	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
12,700.0	89.76	178.31	11,308.7	-1,600.2	47.4	1,600.9	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
12,900.0	89.76	178.31	11,309.6	-1,800.1	53.3	1,800.9	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
13,100.0	89.76	178.31	11,310.4	-2,000.1	59.2	2,000.9	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
13,300.0	89.76	178.31	11,311.2	-2,200.0	65.1	2,200.9	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
13,500.0	89.76	178.31	11,312.1	-2,399.9	71.0	2,400.9	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
13,700.0	89.76	178.31	11,312.9	-2,599.8	76.9	2,600.9	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		

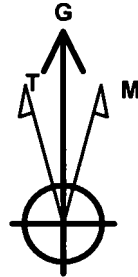
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,800.0	89.76	178.31	11,313.3	-2,699.7	79.9	2,700.9	0.00	0.00	0.00
13,900.0	89.76	178.31	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	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PH 15 B#CN KOP - hit/miss target - Shape - 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 - plan hits target center - 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' I - plan hits target center - 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

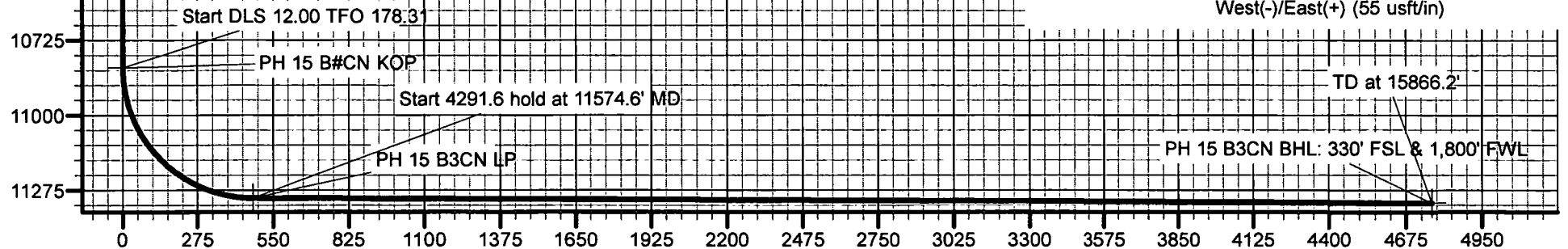
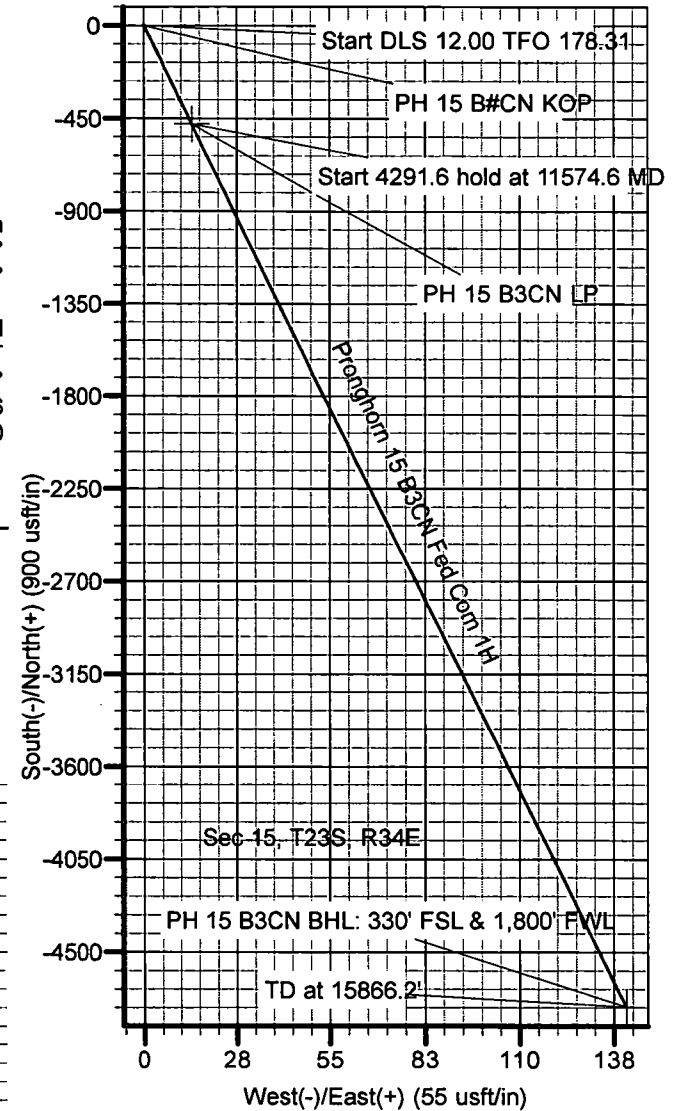
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0'	0.00°	0.00°	0.0'	0.0'	0.0'	0.00°	0.00°	0.0'	
2	10826.5'	0.00°	0.00°	10826.5'	0.0'	0.0'	0.00°	0.00°	0.0'	KOP
3	11574.6'	89.76°	178.31°	11304.0'	-475.3'	14.1'	12.00°	178.31°	475.5'	LP
4	15866.2'	89.76°	178.31°	11322.0'	-4765.0'	141.0'	0.00°	0.00°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

True Vertical Depth (550 usft/in)

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

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

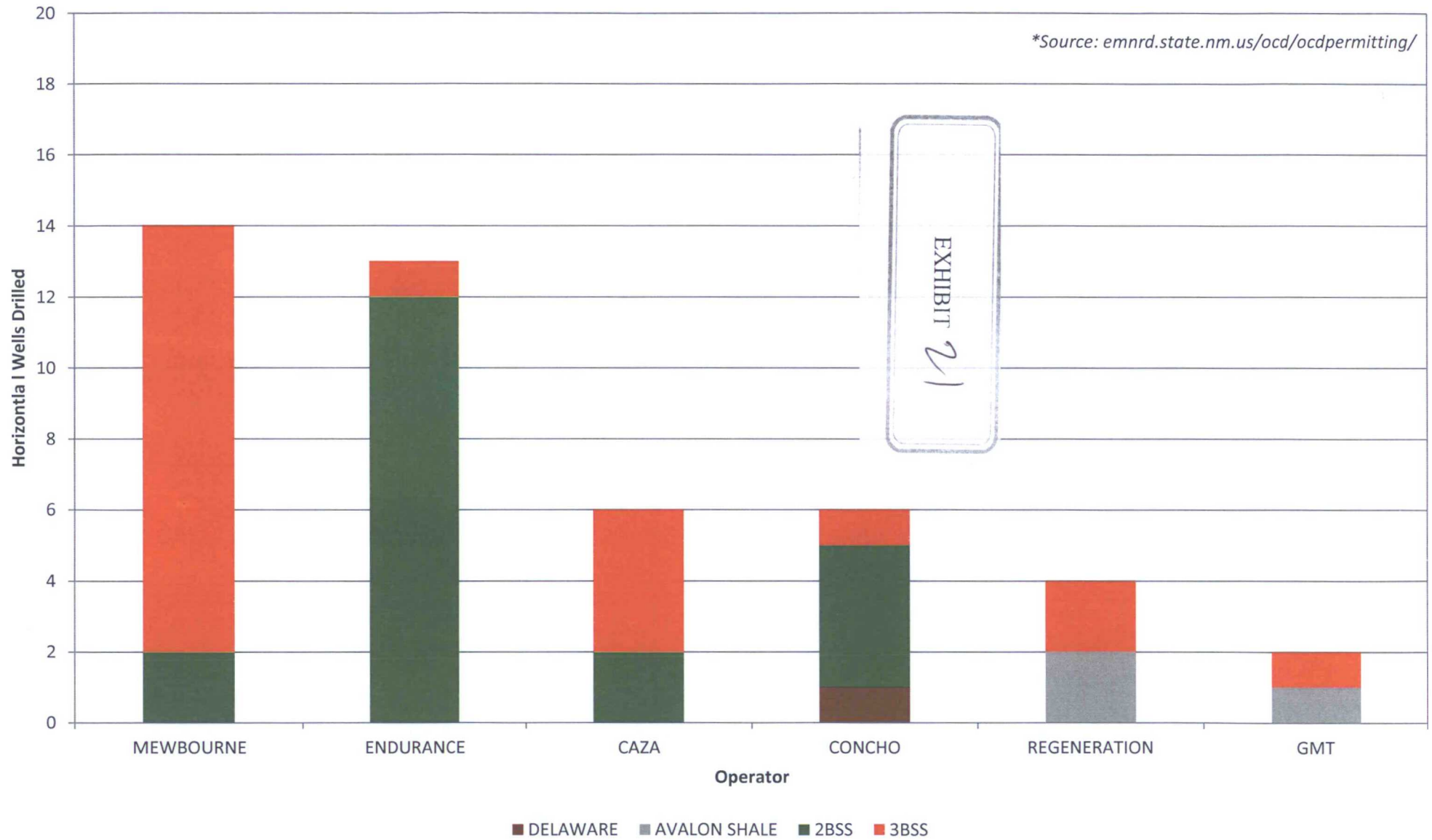
Vertical Section at 178.31° (550 usft/in)





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

45 Total Wells by Operator and Formation Targeted





**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 303-534-4861

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**

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
(MOC 1.5x) - (BMO)							\$ (912,871)
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
(MOC 1.5x) - (BMO)							\$ (901,871)
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
(MOC 1.5x) - (BMO)							\$ (924,321)

\* 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
MOC 1.5x) - (BMO)							\$ 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
MOC 1.5x) - (BMO)							\$ 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
MOC 1.5x) - (BMO)							\$ 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  
 Lease: GRAMA RIDGE  
 Well No.: 16002, NAME: 16002, 16002, 16002  
 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		AFE Amounts
DEVELOPMENT		
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)		\$762,694
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		\$200,500
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
Intangible Drilling		\$2,803,180
SURFACE CASING		\$42,375
INTERMEDIATE CASING		\$180,000
CASING HEAD / TUBING HEAD / CHRISTMAS TREE		\$27,500
OTHER TANGIBLE / CENTRALIZERS / FLOAT SHOES		\$15,000
CONTINGENCY		\$70,488
Tangible Drilling		\$281,363
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
GLICK 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
Intangible Completion		\$4,811,310
PRODUCTION CASING		\$204,000
TUBING		\$40,000
CASING HEAD / TUBING HEAD / CHRISTMAS TREE		\$35,500
OTHER TANGIBLE / CENTRALIZERS / FLOAT EQUIPMENT		\$8,500
CONTINGENCY		\$10,800
Tangible Completion		\$338,480
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
Facilities		\$463,476

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

Black Mountain Operating, LLC  
 Approved 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 BMOI, LLC.

OWNERSHIP	COST TO COMPLETE
DATE	PARTICIPANTS ESTIMATED COST
APPROVED BY	TITLE

MOC EXHIBIT 25

63 GMT

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

AFE#: 16002

Date: 12/23/2015  
 Lease: Grams Ridge  
 Well No: 16002  
 Proposed Depth: 10,000' MD  
 Objective: Drill & Complete Horizontal Well in 3rd Bone Spring Formation 7500' lateral 30 bac stages  
 Grams Ridge State Com #194 A-C

Modern Development AFE		AFE Amounts
Description		
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)		\$752,500
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		\$225,000
DISPOSAL / FLOWBACK		\$50,000
WATER		\$15,000
CREW QUARTERS		\$50,000
SPECIAL SERVICES / DIRECTIONAL		\$202,500
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		\$50,000
WATER		\$200,000
CREW QUARTERS		\$0
LOGGING / WIRELINE / PERFORATING		\$158,000
CEMENT & CEMENTING SERVICES		\$85,250
SUCK LINE		\$0
TRUCKING & HAULING		\$15,000
COMPANY SUPERVISION		\$0
SUPERVISION - CONTRACT		\$12,800
OVERHEAD		\$0
CASING CREWS / CONTRACT LABOR		\$25,000
FLOWBACK / WELL TESTS		\$90,000
MISCELLANEOUS / OTHER COSTS / FRAC PLUGS		\$77,500
DRILLING WELL INSURANCE		\$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		\$30,860
Tangible Completion		\$338,460
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		\$41,725
Facilities		\$483,475
Total Estimated Well Cost		\$8,298,750
Black Mountain Operating, LLC		
Authorized Signature: <i>[Signature]</i>		110 1/2" Land
Date: 12/23/15		
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	