

**Before the Oil Conservation Division  
Examiner Hearing August 9, 2018**

**Case No. 16306 & 16307**

*Flowmaster Fee 24-34-15 WXY 2H, Flowmaster Fee 24-34-15 WD 3H,  
Flowmaster Fee 24-34-15 WA 6H and Flowmaster Fee 24-34-15 WA 14H*



**Marathon Oil**

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

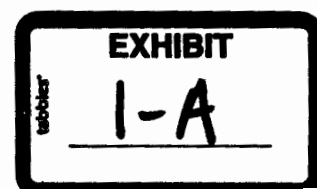
**APPLICATION OF MARATHON  
OIL PERMIAN LLC FOR APPROVAL  
OF A NON-STANDARD SPACING  
AND PRORATION UNIT,  
NON-STANDARD LOCATIONS, AND  
COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

CASE NO. \_\_\_\_\_

**APPLICATION**

Marathon Oil Permian LLC ("Marathon"), OGRID Number 372098, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order: (1) creating a 320-acre, more or less, spacing and proration unit covering the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico; (2) approving non-standard locations; and, (3) pooling all mineral interests in the Wolfcamp formation underlying the standard spacing and proration unit. In support of this application, Marathon states as follows:

1. Marathon is an interest owner in the subject lands and has a right to drill a well thereon.
2. Marathon seeks to dedicate the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico to the proposed wells to form a 320-acre, more or less, spacing and proration unit.



3. Marathon plans to drill the **Flowmaster Fee 24-34-15 WXY 2H**, **Flowmaster Fee 24-34-15 WA 6H**, and **Flowmaster Fee 24-34-15 WA 14H** wells within the proposed spacing unit to a depth sufficient to test the Wolfcamp formation. These wells will be horizontally drilled using the same drilling rig.

4. These wells will be located within the Antelope Ridge, Wolfcamp Pool (Pool Code 2220), which is oil pool that is subject to 330 foot setback requirements.

5. Marathon is requesting the approval of non-standard locations for the wells.

6. The **Flowmaster Fee 24-34-15 WXY 2H** will have a first take point located at 200 feet from the South line and 1,318 feet from the West line of Section 15, and a last take point located at 200 feet from the North line and 1,323 feet from the West line of Section 15.

7. The **Flowmaster Fee 24-34-15 WA 6H** will have a first take point located at 200 feet from the North line and 330 feet from the West line of Section 15, and a last take point located at 200 feet from the South line and 330 feet from the West line of Section 15.

8. The **Flowmaster Fee 24-34-15 WA 14H** will have a first take point located at 200 feet from the South line and 2,315 feet from the West line of Section 15, and a last take point located at 200 feet from the North line and 2,317 feet from the West line of Section 15.

9. Marathon sought, but has been unable to obtain a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.

10. The creation of a non-standard spacing and proration unit, pooling of all interests, and the approval of non-standard locations within the Wolfcamp formation underlying the proposed spacing unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

WHEREFORE, Marathon requests this application be set for hearing before an Examiner of the Oil Conservation Division on July 12, 2018, and after notice and hearing as required by law, the Division enter its order:

- A. Creating a spacing and proration unit in the Wolfcamp formation comprised of the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico;
- B. Approving non-standard locations (as needed);
- C. Pooling all mineral interests in the Wolfcamp formation underlying this standard spacing and proration unit;
- D. Designating Marathon as operator of this unit and the wells to be drilled thereon;
- E. Authorizing Marathon to recover its costs of drilling, equipping and completing these wells;
- F. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure; and
- G. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS  
& SISK, P.A.

By: \_\_\_\_\_

Earl E. DeBrine, Jr.  
Jennifer Bradfute  
Deana M. Bennett

Post Office Box 2168  
500 Fourth Street NW, Suite 1000  
Albuquerque, New Mexico 87103-2168  
Telephone: 505.848.1800  
*Attorneys for Applicant*

**CASE NO. \_\_\_\_\_: Application of Marathon Oil Permian LLC for approval of a non-standard spacing and proration unit, non-standard locations, and compulsory pooling, Lea County, New Mexico.** Applicant seeks an order from the Division: (1) creating a standard 320-acre, more or less, spacing and proration unit in covering the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico; (2) approving non-standard locations; and, (3) pooling all mineral interests in the Wolfcamp formation underlying this proposed standard spacing and proration unit. This proposed standard spacing and proration unit will be the unit for the **Flowmaster Fee 24-34-15 WXY 2H, Flowmaster Fee 24-34-15 WA 6H, and Flowmaster Fee 24-34-15 WA 14H** wells, to be horizontally drilled. The producing areas for these wells will contain unorthodox locations. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 17 miles northwest of Jal, New Mexico.

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

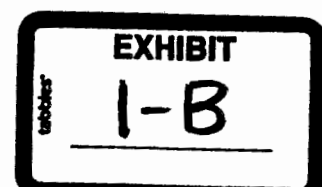
**APPLICATION OF MARATHON  
OIL PERMIAN LLC FOR APPROVAL  
OF NON-STANDARD LOCATIONS AND  
COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO.**

CASE NO. \_\_\_\_\_

**APPLICATION**

Marathon Oil Permian LLC ("Marathon"), OGRID Number 372098, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order: (1) creating a 320-acre, more or less, spacing and proration unit covering the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico; (2) approving non-standard locations; and, (3) pooling all mineral interests in the Wolfcamp formation underlying the standard spacing and proration unit. In support of this application, Marathon states as follows:

1. Marathon is an interest owner in the subject lands and has a right to drill a well thereon.
2. Marathon seeks to dedicate the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico to the proposed wells to form a 320-acre, more or less, spacing and proration unit.
3. Marathon plans to drill the **Flowmaster Fee 24-34-15 WD 3H** well within the proposed spacing unit to a depth sufficient to test the Wolfcamp formation. This well will be



located within the Fairview Mills; Wolfcamp Gas Pool (Pool Code 76560), which is gas pool that is subject to 660 foot setback requirements.

4. Marathon is requesting the approval of non-standard locations for the well.

5. The **Flowmaster Fee 24-34-15 WD 3H** will have a first take point located at 200 feet from the North line and 330' feet from the West line of Section 15, and a last take point located at 200 feet from the South line and 330 feet from the West line of Section 15.

6. Marathon sought, but has been unable to obtain a voluntary agreement from all interest owners in the Wolfcamp formation underlying the proposed spacing unit to participate in the drilling of the well or to otherwise commit their interests to the well.

7. The pooling of all interests and the approval of non-standard locations within the Wolfcamp formation underlying the proposed spacing unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

WHEREFORE, Marathon requests this application be set for hearing before an Examiner of the Oil Conservation Division on July 12, 2018, and after notice and hearing as required by law, the Division enter its order:

A. Creating a spacing and proration unit in the Wolfcamp formation comprised of the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico;

B. Approving non-standard locations (as needed);

C. Pooling all mineral interests in the Wolfcamp formation underlying this standard spacing and proration unit;

D. Designating Marathon as operator of this unit and the wells to be drilled thereon;




E. Authorizing Marathon to recover its costs of drilling, equipping and completing these wells;

F. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure; and

G. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS  
& SISK, P.A.

By:   
Earl E. DeBrine, Jr.  
Jennifer Bradfute  
Deana M. Bennett  
Post Office Box 2168  
500 Fourth Street NW, Suite 1000  
Albuquerque, New Mexico 87103-2168  
Telephone: 505.848.1800  
*Attorneys for Applicant*

**CASE NO. \_\_\_\_\_: Application of Marathon Oil Permian LLC for approval of non-standard locations and compulsory pooling, Lea County, New Mexico.** Applicant seeks an order from the Division: (1) creating a standard 320-acre, more or less, spacing and proration unit in covering the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico; (2) approving non-standard locations; and, (3) pooling all mineral interests in the Wolfcamp formation underlying this proposed standard spacing and proration unit. This proposed standard spacing and proration unit will be the unit for the **Flowmaster Fee 24-34-15 WD 3H** well, to be horizontally drilled. The producing areas for this well will contain unorthodox locations. Also to be considered will be the cost of drilling and completing said well, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 17 miles northwest of Jal, New Mexico.

# Flowmaster Fee 24 34 15 Unit Development



District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number	<sup>2</sup> Pool Code 2220	<sup>3</sup> Pool Name ANTELOPE RIDGE; WOLFCAMP
<sup>4</sup> Property Code	<sup>5</sup> Property Name FLOWMASTER FEE 24-34-15 WXY	<sup>6</sup> Well Number 2H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3519'

**" Surface Location**

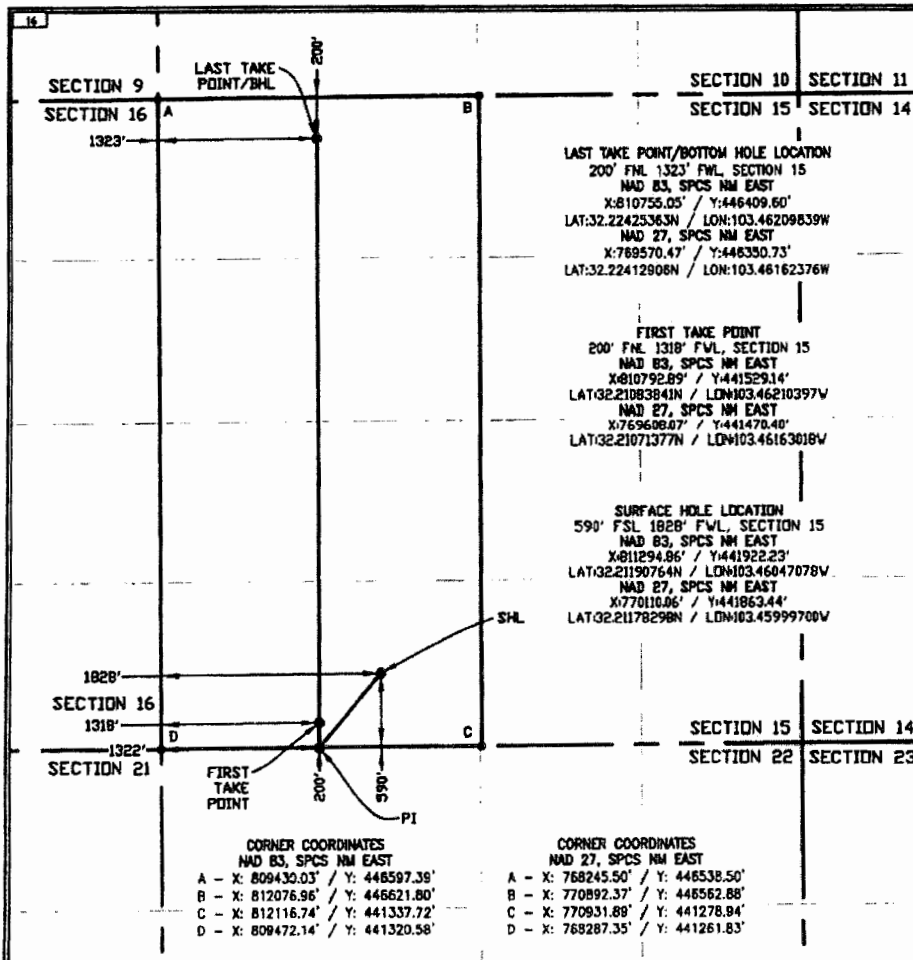
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	24S	34E		590	SOUTH	1828	WEST	LEA

**" Bottom Hole Location If Different From Surface**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	24S	34E		200	NORTH	1323	WEST	LEA

<sup>12</sup> Dedicated Acres 320.00	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



**" OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Jennifer Van Curen* 4/10/2018  
Signature Date

Jennifer Van Curen  
Printed Name

E-mail Address

**"SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  
MARCH 20, 2018

Date of Survey

Signature and Seal of Professional Surveyor

**LYLOYD P. SHORT**  
NEW MEXICO  
21653  
PROFESSIONAL SURVEYOR

Certificate Number LYLOYD P. SHORT 21653

2	03/08/2018	CAP
REV.	DATE	BY

**EXHIBIT**

**3-A**

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 2220	<sup>3</sup> Pool Name ANTELOPE RIDGE; WOLFCAMP
<sup>4</sup> Property Code	<sup>5</sup> Property Name FLOWMASTER FEE 24-34-15 WA	<sup>6</sup> Well Number 6H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3523'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	15	T24S	R34E		340	NORTH	390	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	T24S	R34E		200	SOUTH	330	WEST	LEA

<sup>12</sup> Dedicated Acres 320.00	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<sup>16</sup>				<sup>17</sup> OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature _____ Date _____  Printed Name _____  E-mail Address _____	
<sup>18</sup> SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.  JUNE 26, 2018  Date of Survey _____ Signature and Seal of Professional Surveyor _____					
Certificate Number LLOYD P. SHORT 21653					

3	04/24/2018	ANC
REV.	DATE	BY

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
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1220 S. St. Francis Dr., Santa Fe, NM 87505  
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State of New Mexico  
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1220 South St. Francis Dr.  
Santa Fe, NM 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 2220	<sup>3</sup> Pool Name ANTELOPE RIDGE; WOLFCAMP
<sup>4</sup> Property Code	<sup>5</sup> Property Name FLOWMASTER FEE 24-34-15 WA	<sup>6</sup> Well Number 14H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3518'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	15	T24S	R34E		589	SOUTH	1918	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	T24S	R34E		200	NORTH	2317	WEST	LEA

<sup>12</sup> Dedicated Acres 320.00	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p><sup>16</sup></p> <p><b>SECTION 9 A</b> <b>SECTION 16</b></p> <p><b>SECTION 10</b> <b>SECTION 15</b></p> <p><b>SECTION 11</b> <b>SECTION 14</b></p> <p><b>SECTION 16</b> <b>SECTION 21 D</b></p> <p><b>SECTION 15</b> <b>SECTION 22</b></p> <p><b>SECTION 14</b> <b>SECTION 23</b></p> <p><b>CORNER COORDINATES</b> NAD 83, SPCS NM EAST A - X: 809430.03' / Y: 446597.39' B - X: 812076.96' / Y: 446621.80' C - X: 812116.74' / Y: 441337.72' D - X: 809472.14' / Y: 441320.58'</p> <p><b>CORNER COORDINATES</b> NAD 27, SPCS NM EAST A - X: 768245.50' / Y: 446538.50' B - X: 770692.37' / Y: 446562.88' C - X: 770931.89' / Y: 441278.94' D - X: 768287.35' / Y: 441261.83'</p>				<p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>	
<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>JUNE 26, 2018</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>Certificate Number _____</p>				<p><b>LLOYD P. SHORT</b> NEW MEXICO 21653 PROFESSIONAL SURVEYOR</p>	

2	04/23/2018	JCS
REV.	DATE	BY



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Revised August 1, 2011  
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District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 76560	<sup>3</sup> Pool Name FAIRVIEW MILLS; WOLFCAMP (GAS)
<sup>4</sup> Property Code	<sup>5</sup> Property Name FLOWMASTER FEE 24-34-15 WD	<sup>6</sup> Well Number 3H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3523'

<sup>10</sup> Surface Location

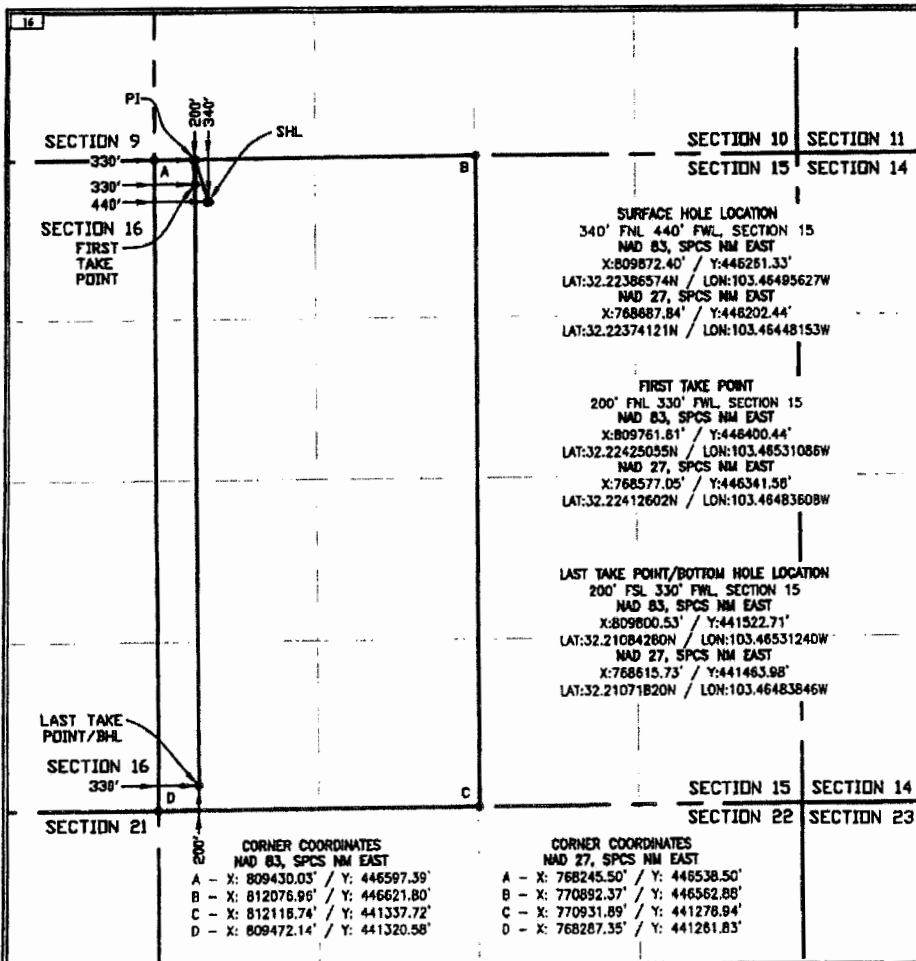
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	15	24S	34E		340	NORTH	440	WEST	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	15	24S	34E		200	SOUTH	330	WEST	LEA

<sup>12</sup> Dedicated Acres 320.00	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



**<sup>17</sup> OPERATOR CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Jennifer Van Curen* 4/9/2018  
Signature Date

Jennifer Van Curen  
Printed Name

E-mail Address

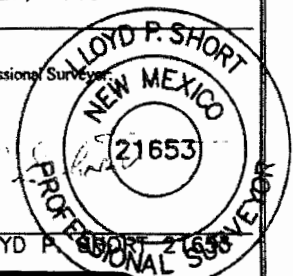
**<sup>18</sup> SURVEYOR CERTIFICATION**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MARCH 20, 2018

Date of Survey

Signature and Seal of Professional Surveyor



Certificate Number LLOYD P. SHORT 21653

1	02/22/2018	CAP
REV.	DATE	BY

EXHIBIT

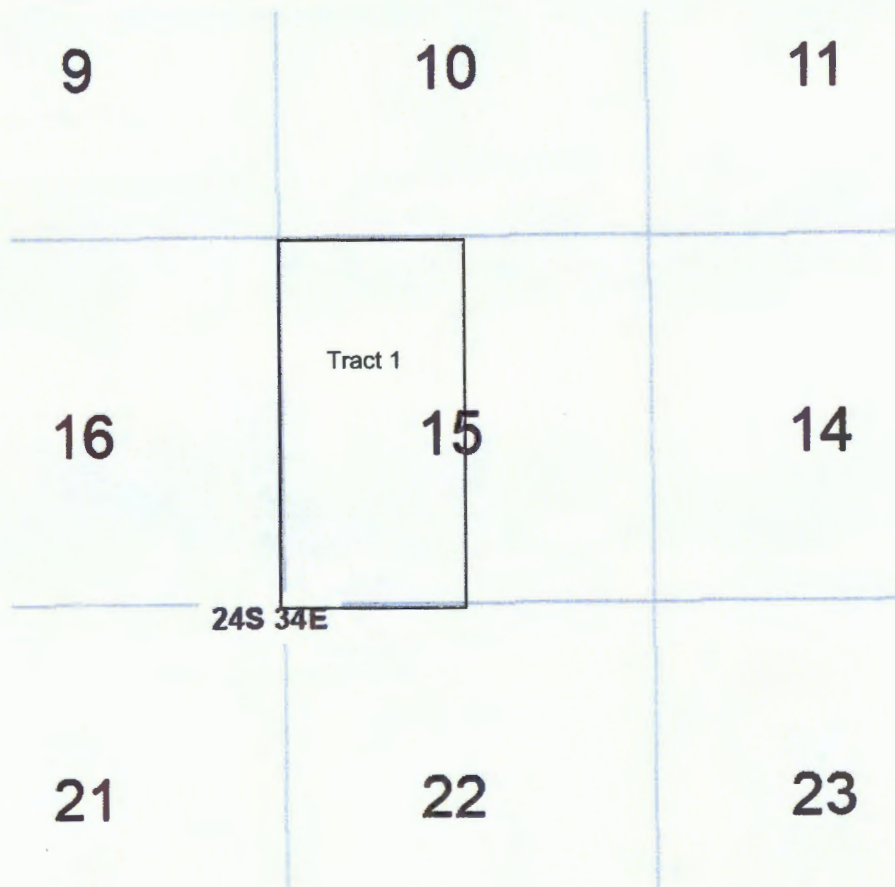
3-B

**Lease Tract Map**

**Flowmaster Fee 24-34-15 WXY 2H, Flowmaster Fee 24-34-15 WD 3H, Flowmaster Fee 24-34-15 WA 6H and Flowmaster Fee 24-34-15 WA 14H**

**W/2 of Section 15, 24S-34E – 320 acres**

- Tract 1: Fee Acreage





## Summary of Interests

**Flowmaster Fee 24-34-15 WXY 2H, Flowmaster Fee 24-34-15 WD 3H, Flowmaster Fee 24-34-15 WA 6H and Flowmaster Fee 24-34-15 WA 14H**

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### Committed Working Interest:

Marathon Oil Permian LLC  
Chevron USA, Inc.  
MRC Permian LKE, Co.

65.416997%  
28.226563%  
0.7812500%

**94.424810%**

### Uncommitted Working Interest:

Tap Rock Resources, LLC

5.325190%

**5.325190%**

### Unleased Mineral Interest:

West Texas A&M University  
Ohio State University

0.125000%  
0.125000%

**0.250000%**

Ryan Gyllenband  
Land Professional



**Marathon Oil Permian LLC**  
5555 San Felipe Street  
Houston, TX 77056  
Telephone: 713.296.2453 Mobile: 281.684.7389  
Fax: 713.513.4006  
mrgyllenband@marathonoil.com

April 20, 2018

VIA CERTIFIED RETURN RECEIPT MAIL

West Texas A&M University  
c/o The Texas A&M University System – Office of General Counsel  
Attn: J.L. Burke Estate  
301 Tarrow Street, 6<sup>th</sup> Floor  
College Station, TX 77840-7896

Re: Flowmaster Fee 2H, 3H, 6H & 14H Well Proposals  
Section 15, T24S-R34E  
Lea County, New Mexico

Dear West Texas A&M University:

Marathon Oil Permian LLC (“Marathon”) shows you with 0.40 unleased net mineral acres in the W/2 of Section 15, 24S-34E. As an unleased mineral owner, Marathon would like to offer you the opportunity to lease your minerals to Marathon at the below lease terms:

- 
- 
- 

This offer to lease terminates May 25, 2018 and is subject to due diligence and title verification satisfactory to Marathon. Should you be agreeable to this offer to lease, please sign the lease form included in this proposal in the presence of a notary and return to my attention at the address listed above.

Marathon proposes the drilling of the following wells located in the W/2 of Section 15, 24S-34E, Lea County, New Mexico to be drilled from 2 different surface pad locations. Should you not elect to lease, Marathon would also like to offer you the opportunity to participate in the drilling of the wells as a working interest owner.

- Flowmaster Fee 24 34 15 WXY 2H with a proposed first take point located 200' FSL and 1,318' FWL of Section 15, 24S-34E, and a proposed last take point located 200' FNL and 1,323' FWL of Section 15, 24S-34E. The well will have a targeted interval located in the Wolfcamp Formation (~12,302' TVD) with a productive lateral length of approximately 4,620'. The total estimated drilling and completion cost is \$7,371,853 as shown in the attached AFE.
- Flowmaster Fee 24 34 15 WD 3H with a proposed first take point located 200' FNL and 330' FWL of Section 15, 24S-34E, and a proposed last take point located 200' FSL and 330' FWL of Section 15, 24S-34E. The well will have a targeted interval located in the Wolfcamp Formation (~13,344' TVD) with a productive lateral length of approximately 4,621'. The total estimated drilling and completion cost is \$7,452,203 as shown in the attached AFE.
- Flowmaster Fee 24 34 15 WA 6H with a proposed first take point located 200' FNL and 330' FWL of Section 15, 24S-34E, and a proposed last take point located 200' FSL and 330' FWL of Section 15, 24S-34E. The well will have a targeted interval located in the Wolfcamp Formation (~12,499' TVD) with a productive lateral length of approximately 4,621'. The total estimated drilling and completion cost is \$7,397,123 as shown in the attached AFE.



- Flowmaster Fee 24 34 15 WA 14H with a proposed first take point located 200' FSL and 2,315' FWL of Section 15, 24S-34E, and a proposed last take point located 200' FNL and 2,317' FWL of Section 15, 24S-34E. The well will have a targeted interval located in the Wolfcamp Formation (~12,483' TVD) with a productive lateral length of approximately 4,623'. The total estimated drilling and completion cost is \$7,372,933 as shown in the attached AFE.

These proposed locations and target depths are subject to change depending on any surface or subsurface concerns encountered. The AFEs represent an estimate of the costs that will be incurred to drill and complete the wells, but those electing to participate in the wells are responsible for their proportionate share of the actual costs incurred.

MRO proposes drilling the well under the terms of the 1989 AAPL JOA and a form of this JOA will be sent to you following this proposal. The JOA will have these general provisions:

- 100%/300%/300% non-consent penalty
- \$7,000/\$700 drilling and producing rates
- Contract area of W/2 Section 15, 24S-34E, covering all depths

Your estimated WI would be 0.125%.

If your election is to participate in the drilling and completion of the wells please sign and return a copy of this letter along with the enclosed AFE within thirty (30) days of receipt of this proposal.

Should you have any questions regarding this or other matters, please don't hesitate to contact me at the above listed numbers.

Sincerely,

Ryan Gyllenband

**Flowmaster Fee 2H, 3H, 6H & 14H**

\_\_\_\_\_ elects to participate in the drilling, completing, and equipping of the Flowmaster Fee 24  
34 15 WXY 2H well.

\_\_\_\_\_ elects NOT to participate in the drilling, completing, and equipping of the Flowmaster  
Fee 24 34 15 WXY 2H well.

\_\_\_\_\_ elects to participate in the drilling, completing, and equipping of the Flowmaster Fee 24  
34 15 WD 3H well.

\_\_\_\_\_ elects NOT to participate in the drilling, completing, and equipping of the Flowmaster  
Fee 24 34 15 WD 3H well.

\_\_\_\_\_ elects to participate in the drilling, completing, and equipping of the Flowmaster Fee 24  
34 15 WA 6H well.

\_\_\_\_\_ elects NOT to participate in the drilling, completing, and equipping of the Flowmaster  
Fee 24 34 15 WA 6H well.

\_\_\_\_\_ elects to participate in the drilling, completing, and equipping of the Flowmaster Fee 24  
34 15 WA 14H well.

\_\_\_\_\_ elects NOT to participate in the drilling, completing, and equipping of the Flowmaster  
Fee 24 34 15 WA 14H well.

**West Texas A&M University**

By: \_\_\_\_\_

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

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Permian Asset Team		Location <u>24, 34, 15</u>	Rig <u>0</u>
Field	<u>0</u>	State <u>NEW MEXICO</u>	
Lease / Facility	<u>Flowmaster Fee 24 34 15 WXY 2H</u>	County/Parish <u>LEA</u>	
Operator	<u>MARATHON OIL PERMIAN LLC</u>	Estimated Start Date <u>28-Mar-2019</u>	
		Estimated Completion Date <u>28-Apr-2019</u>	

Estimated Gross Cost This AFE: \$7,371,853

Project Description & Reason for Expenditure: Drill, Complete, & Equip a Horizontal Well

This well is planned to be drilled and completed with multistage fracturing using plug and perf. The estimated cost of drilling, testing, completing, and equipping the well is \$7,371,853 as detailed in the provided authority for expenditure document. This will include installation of transitional and long term artificial lift systems. The well will be drilled to a total vertical depth of 12,302' and a total measured depth of 17,183', with an estimated treatable lateral length of 4,620' and will be completed with an estimated 30 stages and approximately 2500 lbs/ft of proppant.

Prepared By: JACOB BEATY, JOHN HASHMAN, MATT HENSCHEN, TOMMY MAZAL/BILLY MOORE

 Final Approval

Date: 4/18/18

Title: Regional Vice President Permian Asset Team

**Participant's Approval**

Name of \_\_\_\_\_  
Company: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

EXHIBIT

5-A

MARATHON OIL PERMIAN LLC  
 AUTHORITY FOR EXPENDITURE  
 DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1900

DRILLING & LOCATION PREPARED BY JACOB BEATY  
 COMPLETION PREPARED BY JOHN HASHMAN  
 FACILITIES PREPARED BY MATT HENSCHEN  
 ARTIFICIAL LIFT PREPARED BY TOMMY MAZAL/BILLY P

Asset Team	PERMIAN		
Field	0	FORMATION: WOLFCAMP XY	WILDCAT
Lease/Facility	Flowmaster Fee 24 34 15 WKY 2H		EXPLORATION
Location	LEA COUNTY		DEVELOPMENT
Prospect	RED HILLS		X EXPLOITATION
			RECOMPLETION
			WORKOVER

Est Total Depth	17,183	Est Drilling Days	17183	Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	33,750
7001250	Land Broker Fees and Services	37,500
TOTAL LOCATION COST - INTANGIBLE		71,250

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	40,000
7012050	Intermediate Casing 1	147,000
7012050	Intermediate Casing 2	271,000
7012050	Production Casing	60,000
7012050	Drig Umer Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	70,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	-
TOTAL DRILLING - TANGIBLE		695,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	531,563
7019040	Directional Drilling Services	195,500
7019020	Cement and Cementing Service	15,000
7019020	Cement and Cementing Service	25,000
7019020	Cement and Cementing Service	60,000
7019020	Cement and Cementing Service	45,000
7019140	Mud Fluids & Services	82,000
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	73,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7019000	Well Logging Services	-
7019150	Mud Logging-geosteering	19,000
7019250	Stabilizers, Hole Openers, Underreamers (OH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	135,000
7001440	Vacuum Trucks	20,000
7000030	Contract Labor - general	30,000
7018150	Rental Tools and Equipment (surface rentals)	94,500
7018150	Rig Equipment and Misc.	7,088
7001110	Telecommunications Services	10,000
7001120	Consulting Services	134,663
7001400	Safety and Environmental	10,000
7018120	Rental Buildings (trailers)	-
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	197,105
TOTAL DRILLING - INTANGIBLE		\$1,965,918

TOTAL DRILLING COST	\$2,660,918
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COMPLETION - TANGIBLE

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	37,000
TOTAL COMPLETION - TANGIBLE		\$97,000

MARATHON OIL PERMIAN LLC  
AUTHORITY FOR EXPENDITURE  
DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1900

Asset Team PERMIAN  
Field 0 FORMATION: WOLFCAMP XY  
Lease/Facility Rowmaster Fee 24 34 15 WXY 2H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	5,000
7019220	Drilling Rig During Completion	35,000
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	120,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	125,000
7019320	Fracturing Services	2,300,000
7019330	Perforating	175,000
7019360	Wireline Services	10,000
7001460	Water Hauling & Disposal (frac fluids)	200,000
7016180	Freight - Truck (haul pipe; drlg & compl)	10,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	25,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	40,000
7018150	Zipper Manifold	110,000
7019300	Frack Stack Rentals	40,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental ( w/o operator, frac tanks, lightplants)	65,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	15,000
7011010	8% Contingency & Taxes	274,200
TOTAL COMPLETION - INTANGIBLE		\$3,654,200
TOTAL COMPLETION COST		\$3,751,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	86,765
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	69,528
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,078
7012270	Miscellaneous Materials (containment system)	43,047
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,116
7012290	Metering and Instrumentation	250,831
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	77,572
7012500	Tanks	142,674
7012100	Heater Treater	12,997
7012640	Flare & Accessories	17,469
7000010	Electrical Labor	29,116
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,293
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$809,485
TOTAL SURFACE EQUIPMENT COST		\$ 809,485

ARTIFICIAL LIFT

7006640	Company Labor	3,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	22,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	8% Contingency & Taxes	2,500
TOTAL ARTIFICIAL LIFT		79,000
TOTAL ARTIFICIAL LIFT COST		\$ 79,000

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 71,250
TOTAL DRILLING COST	\$ 2,660,918
TOTAL COMPLETIONS COST	\$ 3,751,200
TOTAL SURFACE EQUIPMENT COST	\$ 809,485
TOTAL ARTIFICIAL LIFT COST	\$ 79,000
GRAND TOTAL COST	\$7,371,853



Drilling Project #
Pad Project #
DATE: 1/01/2000

Permian Asset Team	
Field	0
Lease / Facility	Flowmaster Fee 24 34 15 WA 6H
Operator	MARATHON OIL PERMIAN LLC
Location	24, 34, 15
State	NEW MEXICO
County/Parish	LEA
Estimated Start Date	19-Mar-2019
Estimated Completion Date	31-Jan-1900
Estimated Gross Cost This AFE: \$7,397,123	

Project Description & Reason for Expenditure: Drill, Complete, & Equip a Horizontal Well

This well is planned to be drilled and completed with multistage fracturing using plug and perf. The estimated cost of drilling, testing, completing, and equipping the well is \$7,397,123 as detailed in the provided authority for expenditure document. This will include installation of transitional and long term artificial lift systems. The well will be drilled to a total vertical depth of 12,499' and a total measured depth of 17,320', with an estimated treatable lateral length of 4,621' and will be completed with an estimated 30 stages and approximately 2,500 lbs/ft of proppant.

Prepared By: JACOB BEATY, JOHN HASHMAN, MATT HENSCHEN, TOMMY MAZAL, BILLY MOORE,

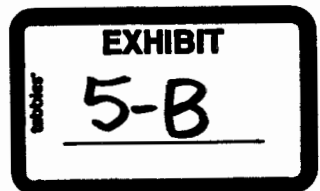
 **Final Approval**  
Date: 4/18/18  
Title: Regional Vice President Permian Asset Team

Participant's Approval

Name of Company: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_





MARATHON OIL PERMIAN LLC  
 AUTHORITY FOR EXPENDITURE  
 DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1900

DRILLING & LOCATION PREPARED BY JACOB BEATY  
 COMPLETION PREPARED BY JOHN HASHMAN  
 FACILITIES PREPARED BY MATT HENSCHEN  
 ARTIFICIAL LIFT PREPARED BY TOMMY MAZAL/BILLY P

Asset Team	PERMIAN		
Field	0	FORMATION: WOLFCAMP A	WILDCAT
Lease/Facility	Flowmaster Fee 24 34 15 WA 6H		DEVELOPMENT
Location	LEA COUNTY		X EXPLOITATION
Prospect	RED HILLS		

Est Total Depth 17,320 Est Drilling Days 17320 Est Completion Days 5.5

LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	45,000
7001250	Land Broker Fees and Services	50,000
TOTAL LOCATION COST - INTANGIBLE		95,000

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	40,000
7012050	Intermediate Casing 1	147,000
7012050	Intermediate Casing 2	271,000
7012050	Production Casing	61,000
7012050	Drig Uner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	70,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	-
TOTAL DRILLING - TANGIBLE		696,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	43,333
7019220	Drilling Rig - day work/footage	540,000
7019040	Directional Drilling Services	195,500
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	60,000
7019020	Cement and Cementing Service Production	45,000
7019140	Mud Fluids & Services	82,000
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	74,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7019000	Well Logging Services	-
7019150	Mud Logging-geosteering	19,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	135,000
7001440	Vacuum Trucks	20,000
7000030	Contract Labor - general	30,000
7018150	Rental Tools and Equipment (surface rentals)	96,000
7018150	Rig Equipment and Misc.	7,200
7001110	Telecommunications Services	10,000
7001120	Consulting Services	136,800
7001400	Safety and Environmental	10,000
7018120	Rental Buildings (trailers)	-
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	199,107
TOTAL DRILLING - INTANGIBLE		\$1,991,840

TOTAL DRILLING COST

\$2,687,940

COMPLETION - TANGIBLE

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	37,000
TOTAL COMPLETION - TANGIBLE		\$97,000

MARATHON OIL PERMIAN LLC  
AUTHORITY FOR EXPENDITURE  
DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1900

Asset Team PERMIAN  
Field 0 FORMATION: WOLFCAMP A  
Lease/Facility Flowmaster Fee 24 34 15 WA 6H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	5,000
7019220	Drilling Rig During Completion	85,000
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	120,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	125,000
7019320	Fracturing Services	2,300,000
7019330	Perforating	175,000
7019360	Wireline Services	10,000
7001460	Water Hauling & Disposal (frac fluids)	200,000
7016180	Freight - Truck (haul pipe; drlg & compl)	10,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (Incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	25,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	40,000
7018150	Zipper Manifold	110,000
7019300	Frack Stack Rentals	40,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental ( w/o operator, frac tanks, lightplants)	65,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	15,000
7011010	8% Contingency & Taxes	274,200
TOTAL COMPLETION - INTANGIBLE		\$3,654,200

TOTAL COMPLETION COST \$3,751,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,794
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	67,540
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,951
7012270	Miscellaneous Materials (containment system)	43,227
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,116
7012290	Metering and Instrumentation	237,079
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	66,998
7012500	Tanks	144,894
7012100	Heater Treater	17,330
7012640	Flare & Accessories	11,646
7000010	Electrical Labor	29,116
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,293
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$783,983

TOTAL SURFACE EQUIPMENT COST \$ 783,983

ARTIFICIAL LIFT

7006640	Company Labor	3,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	22,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	8% Contingency & Taxes	2,500
TOTAL ARTIFICIAL LIFT		79,000

TOTAL ARTIFICIAL LIFT COST \$ 79,000

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 95,000
TOTAL DRILLING COST	\$ 2,687,940
TOTAL COMPLETIONS COST	\$ 3,751,200
TOTAL SURFACE EQUIPMENT COST	\$ 783,983
TOTAL ARTIFICIAL LIFT COST	\$ 79,000
GRAND TOTAL COST	\$7,397,123

Permian Asset Team		Location <b>24, 34, 15</b>	Rig <b>480</b>
Field	<b>0</b>		
Lease / Facility	<b>Flowmaster Fee 24 34 15 WA 14H</b>	State <b>NEW MEXICO</b>	
Operator	<b>MARATHON OIL PERMIAN LLC</b>	County/Parish <b>LEA</b>	
		Estimated Start Date <b>6-Jun-2019</b>	
		Estimated Completion Date <b>7-Jul-2019</b>	

Estimated Gross Cost This AFE: **\$7,372,933**

Project Description & Reason for Expenditure: Drill, Complete, & Equip a Horizontal Well

This well is planned to be drilled and completed with multistage fracturing using plug and perf. The estimated cost of drilling, testing, completing, and equipping the well is \$7,372,933 as detailed in the provided authority for expenditure document. This will include installation of transitional and long term artificial lift systems. The well will be drilled to a total vertical depth of 12,483' and a total measured depth of 17,363', with an estimated treatable lateral length of 4,623' and will be completed with an estimated 30 stages and approximately 2500 lbs/ft of proppant.

Prepared By: JACOB BEATY, JOHN HASHMAN, MATT HENSCHEN, TOMMY MAZAL/BILLY MOORE,

  
**Final Approval**  
Date: 4/18/18  
Title: Regional Vice President Permian Asset Team

**Participant's Approval**

Name of  
Company: \_\_\_\_\_

Signature: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_



MARATHON OIL PERMIAN LLC  
 AUTHORITY FOR EXPENDITURE  
 DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1990

DRILLING & LOCATION PREPARED BY JACOB BEATY  
 COMPLETION PREPARED BY JOHN HASHMAN  
 FACILITIES PREPARED BY MATT HENSCHEN  
 ARTIFICIAL LIFT PREPARED BY TOMMY MAZAL/BILLY P

Asset Team	PERMIAN	FORMATION: WOLFCAMP A	WILDCAT	EXPLORATION
Field	0		DEVELOPMENT	RECOMPLETION
Lease/Facility	Flowmaster Fee 24 34 15 WA 14H		X EXPLOITATION	WORKOVER
Location	LEA COUNTY			
Prospect	RED HILLS			

Est Total Depth	17,363	Est Drilling Days	17363	Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	33,750
7001250	Land Broker Fees and Services	37,500
TOTAL LOCATION COST - INTANGIBLE		71,250

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	40,000
7012050	Intermediate Casing 1	147,000
7012050	Intermediate Casing 2	271,000
7012050	Production Casing	61,000
7012050	Drig Uner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	70,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	-
TOTAL DRILLING - TANGIBLE		696,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	531,563
7019040	Directional Drilling Services	195,500
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	60,000
7019020	Cement and Cementing Service Production	45,000
7019140	Mud Fluids & Services	82,000
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	73,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7019000	Well Logging Services	-
7019150	Mud Logging/geosteering	19,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	135,000
7001440	Vacuum Trucks	20,000
7000030	Contract Labor - general	30,000
7018150	Rental Tools and Equipment (surface rentals)	94,500
7018150	Rig Equipment and Misc.	7,088
7001110	Telecommunications Services	10,000
7001120	Consulting Services	134,663
7001400	Safety and Environmental	10,000
7018120	Rental Buildings (trailers)	-
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	197,185
TOTAL DRILLING - INTANGIBLE		\$1,965,998

TOTAL DRILLING COST

\$2,661,998

COMPLETION - TANGIBLE

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	37,000
TOTAL COMPLETION - TANGIBLE		597,000

MARATHON OIL PERMIAN LLC  
AUTHORITY FOR EXPENDITURE  
DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1900

Asset Team PERMIAN  
Field 0 FORMATION: WOLFCAMP A  
Lease/Facility Flowmaster Fee 24 34 15 WA 14H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	5,000
7019220	Drilling Rig During Completion	35,000
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	120,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7018350	Fuel (from drlg)	-
7018010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	125,000
7019320	Fracturing Services	2,300,000
7019330	Perforating	175,000
7019360	Wireline Services	10,000
7001460	Water Hauling & Disposal (frac fluids)	200,000
7016180	Freight - Truck (haul pipe; drlg & compl)	10,000
7018150	BQP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	25,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	40,000
7018150	Zipper Manifold	110,000
7019300	Frack Stack Rentals	40,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental ( w/o operator, frac tanks, lightplants)	65,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	15,000
7011010	8% Contingency & Taxes	274,200
TOTAL COMPLETION - INTANGIBLE		\$3,654,200

TOTAL COMPLETION COST

\$3,751,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	86,765
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	69,528
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,078
7012270	Miscellaneous Materials (containment system)	43,047
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,116
7012290	Metering and Instrumentation	250,831
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	77,572
7012500	Tanks	142,674
7012100	Heater Treater	12,997
7012640	Flare & Accessories	17,469
7000010	Electrical Labor	29,116
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,293
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$809,485

TOTAL SURFACE EQUIPMENT COST

\$ 809,485

ARTIFICIAL LIFT

7006640	Company Labor	3,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	22,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	8% Contingency & Taxes	2,500
TOTAL ARTIFICIAL LIFT		79,000

TOTAL ARTIFICIAL LIFT COST

\$ 79,000

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 71,250
TOTAL DRILLING COST	\$ 2,661,998
TOTAL COMPLETIONS COST	\$ 3,751,200
TOTAL SURFACE EQUIPMENT COST	\$ 809,485
TOTAL ARTIFICIAL LIFT COST	\$ 79,000
GRAND TOTAL COST	\$7,372,933



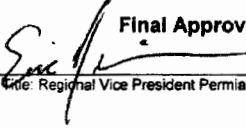
Drilling Project #  
Pad Project #  
DATE: 1/2/1900

Permian Asset Team  
Field 0 Location 24, 34, 16 Rig NR6  
Lease / Facility Flowmaster Fee 24 34 15 WD 3H State NEW MEXICO  
Operator MARATHON OIL PERMIAN LLC County/Parish LEA  
Estimated Start Date 20-Apr-2019  
Estimated Completion Date 22-May-2019  
Estimated Gross Cost This AFE: \$7,452,203

Project Description & Reason for Expenditure: Drill, Complete, & Equip a Horizontal Well

This well is planned to be drilled and completed with multistage fracturing using plug and perf. The estimated cost of drilling, testing, completing, and equipping the well is \$7,452,203 as detailed in the provided authority for expenditure document. This will include installation of transitional and long term artificial lift systems. The well will be drilled to a total vertical depth of 13,344' and a total measured depth of 18,216', with an estimated treatable lateral length of 4,621' and will be completed with an estimated 30 stages and approximately 2500 lbs/ft of proppant.

Prepared By: JACOB BEATY, JOHN HASHMAN, MATT HENSCHEN, TOMMY MAZAL/BILLY MOORE

 **Final Approval**  
Date: 4/18/18  
Title: Regional Vice President Permian Asset Team

**Participant's Approval**

Name of  
Company: \_\_\_\_\_  
Signature: \_\_\_\_\_  
Title: \_\_\_\_\_ Date: \_\_\_\_\_



MARATHON OIL PERMIAN LLC  
 AUTHORITY FOR EXPENDITURE  
 DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1900  
 DRILLING & LOCATION PREPARED BY JACOB BEATY  
 COMPLETION PREPARED BY JOHN HASHMAN  
 FACILITIES PREPARED BY MATT HENSCHEN  
 ARTIFICIAL LIFT PREPARED BY TOMMY MAZAL/BILLY F

Asset Team	PERMIAN		
Field	0	FORMATION: WOLFCAMP D	
Lease/Facility	Flowmaster Fee 24 34 15 WD 3H		WILDCAT
Location	LEA COUNTY		DEVELOPMENT
Prospect	RED MILLS		X EXPLOITATION
			EXPLORATION
			RECOMPLETION
			WORKOVER

Est Total Depth	18,216	Est Drilling Days	18216	Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	45,000
7001250	Land Broker Fees and Services	50,000
TOTAL LOCATION COST - INTANGIBLE		95,000

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	40,000
7012050	Intermediate Casing 1	147,000
7012050	Intermediate Casing 2	258,000
7012050	Production Casing	61,000
7012050	Drig Uner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	70,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	-
TOTAL DRILLING - TANGIBLE		693,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	43,333
7019220	Drilling Rig - day work/footage	562,500
7019040	Directional Drilling Services	205,000
7019020	Cement and Cementing Service	15,000
7019020	Cement and Cementing Service	40,000
7019020	Cement and Cementing Service	60,000
7019020	Cement and Cementing Service	50,000
7019140	Mud Fluids & Services	68,000
7012310	Solids Control equipment	43,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	77,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7019000	Well Logging Services	-
7019150	Mud Logging/geosteering	20,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	155,000
7001440	Vacuum Trucks	20,000
7000030	Contract Labor - general	30,000
7018150	Rental Tools and Equipment (surface rentals)	100,000
7018150	Rig Equipment and Misc.	7,500
7001110	Telecommunications Services	10,000
7001120	Consulting Services	142,500
7001400	Safety and Environmental	10,000
7018120	Rental Buildings (trailers)	-
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	203,187
TOTAL DRILLING - INTANGIBLE		\$2,050,020

TOTAL DRILLING COST

\$2,743,020

COMPLETION - TANGIBLE

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	37,000
TOTAL COMPLETION - TANGIBLE		\$97,000

MARATHON OIL PERMIAN LLC  
 AUTHORITY FOR EXPENDITURE  
 DETAIL OF ESTIMATED WELL COSTS

DATE 1/0/1900

Asset Team PERMIAN  
 Field 0 FORMATION: WOLFCAMP D  
 Lease/Facility Flowmaster Fee 24 34 15 WD 3H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	5,000
7019220	Drilling Rig During Completion	35,000
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	120,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	125,000
7019320	Fracturing Services	2,300,000
7019330	Perforating	175,000
7019360	Wireline Services	10,000
7001460	Water Hauling & Disposal (frac fluids)	200,000
7016180	Freight - Truck (haul pipe; drlg & compl)	10,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment ( Incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. BIt, BHA)	-
7000030	Contract Labor - general	25,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	40,000
7018150	Zipper Manifold	110,000
7019300	Frack Stack Rentals	40,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental ( w/o operator, frac tanks, lightplants)	65,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	15,000
7011010	8% Contingency & Taxes	274,200
TOTAL COMPLETION - INTANGIBLE		\$3,654,200

TOTAL COMPLETION COST \$3,751,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,794
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	67,540
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,951
7012270	Miscellaneous Materials (containment system)	43,227
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,116
7012290	Metering and Instrumentation	237,079
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	66,998
7012500	Tanks	144,894
7012100	Heater Treater	17,330
7012640	Hare & Accessories	11,646
7000010	Electrical Labor	29,116
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,293
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$783,983

TOTAL SURFACE EQUIPMENT COST \$ 783,983

ARTIFICIAL LIFT

7006640	Company Labor	3,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	27,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	8% Contingency & Taxes	2,500
TOTAL ARTIFICIAL LIFT		79,000

TOTAL ARTIFICIAL LIFT COST \$ 79,000

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 95,000
TOTAL DRILLING COST	\$ 2,743,020
TOTAL COMPLETIONS COST	\$ 3,751,200
TOTAL SURFACE EQUIPMENT COST	\$ 783,983
TOTAL ARTIFICIAL LIFT COST	\$ 79,000
GRAND TOTAL COST	\$7,452,203



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

**APPLICATION OF MARATHON  
OIL PERMIAN LLC FOR APPROVAL  
OF A NON-STANDARD SPACING  
AND PRORATION UNIT,  
NON-STANDARD LOCATIONS, AND  
COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO**

CASE NO. 16306

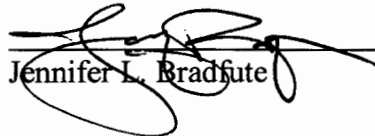
**APPLICATION OF MARATHON  
OIL PERMIAN LLC FOR APPROVAL  
OF NON-STANDARD LOCATIONS AND  
COMPULSORY POOLING,  
LEA COUNTY, NEW MEXICO**

CASE NO. 16307

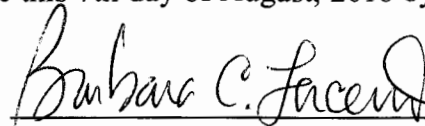
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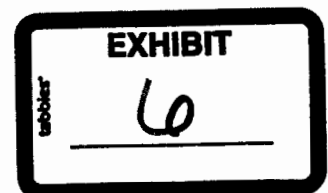
STATE OF NEW MEXICO            )  
  ) ss.  
COUNTY OF BERNALILLO        )

Jennifer L. Bradfute, attorney in fact and authorized representative of Marathon Oil Permian LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application was provided under the notice letter and that proof of receipt is attached hereto.

  
\_\_\_\_\_  
Jennifer L. Bradfute

SUBSCRIBED AND SWORN to before me this 7th day of August, 2018 by Jennifer L. Bradfute.

  
\_\_\_\_\_  
Notary Public



Unit Owner to be Force Pooled		
Name	Address 1	Address 2
Chevron U.S.A. Inc.	6301 Deauville Blvd.	Midland, TX 79706
Tap Rock Resources, LLC	602 Park Point Drive, Suite 200	Golden, CO 80401
MRC Permian LKE, Co.	5400 LBJ Freeway	Dallas, TX 75240
West Texas A&M University c/o The Texas A&M University System Office of General Counsel	301 Tarrow Street, 6th Floor	College Station, TX 77840-7896
Ohio State University	190 N. Oval Mall	Columbus, OH 43210
ORRI Owners in Unit		
Name	Address 1	Address 2
MO Oil, LLC	P.O. Box 429	Roswell, NM 88202
Foundation Minerals	4000 N. Big Spring, Suite 310	Midland, TX 79705
Mavros Minerals, LLC	4000 N. Big Spring, Suite 310	Midland, TX 79705
Oak Valley Land & Mineral, LP	4000 N. Big Spring, Suite 310	Midland, TX 79705
Offset Owners		
COG Operating LLC	One Concho Center, 600 W Illinois Avenue	Midland, TX 79701
COG Production, LLC	One Concho Center, 600 W Illinois Avenue	Midland, TX 79701
EOG Resources Inc.	5509 Champions Drive	Midland, TX 79706
EOG Y Resources Inc.	5509 Champions Drive	Midland, TX 79706
EOG A Resources Inc.	5509 Champions Drive	Midland, TX 79706
EOG M Resources Inc.	5509 Champions Drive	Midland, TX 79706
OXY USA Inc.	5 Greeway Plaza, Suite 110	Houston, TX 77046
OXY USA WTP, LLC	5 Greeway Plaza, Suite 110	Houston, TX 77046
OXY Y-1 Company	5 Greeway Plaza, Suite 110	Houston, TX 77046
Centennial Resource Production, LLC	1001 17th Street, Suite 1800	Denver, CO 80202
Chevron USA, Inc.	6301 Deauville Blvd.	Midland, TX 79706
Synergy Land Group LLC	P.O. Box 82009	Lafayette, LA 70598
Energen Resources Corp.	605 Richard Arrington, Jr. Blvd	North Birmingham, AL 35203
Bergfeld Land & Minerals Group LLC	305 S. Broadway Ave., Suite 304	Tyler, TX 75702
Tap Rock Resources, LLC	602 Park Point Drive, Suite 200	Golden, CO 80401
Shamrock Royalty LLC	200 W. Highway 6	Woodway, TX 76712
Y-20 II, LLC	P.O. Box 2078	Abilene, TX 79604
Yakka III, LLC	P.O. Box 2078	Abilene, TX 79604
Crood Fund I LP	1018 North 5th	Abilene, TX 79601
Chisos Mineral, LLC	1111 Bagby Street, Suite 2150	Houston, TX 77002
Llano Natural Resources	4920 S. Loop 289, Suite 206	Lubbock, TX 79414
Darbe Daniels Nokes	28820 Grayfox Street	Malibu, CA 90265
Keith Pratt Daniels	912 E 530 N	Heber City, UT 84032
Foundation Minerals, LLC	4000 N. Big Spring, Suite 310	Midland, TX 79705
Mavros Minerals, LLC	4000 N. Big Spring, Suite 310	Midland, TX 79705
Oak Valley Mineral & Land, LP	4000 N. Big Spring, Suite 310	Midland, TX 79705
Pamela Dennis Dial	2106 Oxford Ave.	Austin, TX 78704
Estate of Cyle Britton Atwood	8723 Silverhill Lane	Austin, TX 78759
Aquinnah Resources LLC	110 W Louisiana, Suite 404	Midland, TX 79701

Robert E. Landreth	110 W Louisiana, Suite 404	Midland, TX 79701
Advance Energy Partners LLC	11490 Westheimer Road, Suite 950	Houston TX 77077

Zina Crum  
Modrall Sperling  
500 4th Street NW  
Suite 1000  
Albuquerque NM 87102



PS Form 3877

Type of Mailing: CERTIFIED  
06/20/2018

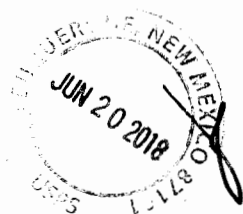


Flowmaster

Firm Mailing Book ID: 145758

Line	Article Number	Name, Street & P.O. Address	Postage	Fee	R.R.Fee	Reference	Rest.Del.Fee Contents
1	9314 8699 0430 0047 8977 28	Advance Energy Partners LLC 11490 Westheimer Road, Suite 950 Houston TX 77077	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
2	9314 8699 0430 0047 8977 35	Aquinnah Resources LLC 110 W Louisiana, Suite 404 Midland TX 79701	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
3	9314 8699 0430 0047 8977 42	Bergfeld Land & Minerals Group LLC 305 S. Broadway Ave., Suite 304 Tyler TX 75702	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
4	9314 8699 0430 0047 8977 59	Centennial Resource Production, LLC 1001 17th Street, Suite 1800 Denver CO 80202	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
5	9314 8699 0430 0047 8977 66	Chevron U.S.A. Inc. 6301 Deauville Blvd. Midland TX 79706	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
6	9314 8699 0430 0047 8977 73	Chevron USA, Inc. 6301 Deauville Blvd. Midland TX 79706	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
7	9314 8699 0430 0047 8977 80	Chisos Mineral, LLC 1111 Bagby Street, Suite 2150 Houston TX 77002	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
8	9314 8699 0430 0047 8977 97	COG Operating LLC One Concho Center, 600 W Illinois Avenue Midland TX 79701	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
9	9314 8699 0430 0047 8978 03	COG Production, LLC One Concho Center, 600 W Illinois Avenue Midland TX 79701	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
10	9314 8699 0430 0047 8978 10	Crood Fund I LP 1018 North 5th Ablene TX 79604	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
11	9314 8699 0430 0047 8978 27	Darbe Daniels Nokes 28820 Grayfox Street Malibu CA 90265	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
12	9314 8699 0430 0047 8978 34	Energen Resources Corp. 605 Richard Arrington, Jr. Blvd North Birmingham AL 35203	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
13	9314 8699 0430 0047 8978 41	EOG A Resources Inc. 5509 Champions Drive Midland TX 79706	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
14	9314 8699 0430 0047 8978 58	EOG M Resources Inc. 5509 Champions Drive Midland TX 79706	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
15	9314 8699 0430 0047 8978 65	EOG Resources Inc. 5509 Champions Drive Midland TX 79706	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice

Zina Crum  
Modrall Sperling  
500 4th Street NW  
Suite 1000  
Albuquerque NM 87102



PS Form 3877  
Type of Mailing: CERTIFIED  
06/20/2018



Firm Mailing Book ID: 145758

Line	Article Number	Name, Street & P.O. Address	Postage	Fee	R.R.Fee	Reference	Rest.Del.Fee Contents
16	9314 8699 0430 0047 8978 72	EOG Y Resources Inc. 5509 Champions Drive Midland TX 79706	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
17	9314 8699 0430 0047 8978 89	Estate of Cyle Britton Atwood 8723 Silverhill Lane Austin TX 78759	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
18	9314 8699 0430 0047 8978 96	Foundation Minerals 4000 N. Big Spring, Suite 310 Midland TX 79705	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
19	9314 8699 0430 0047 8979 02	Foundation Minerals, LLC 4000 N. Big Spring, Suite 310 Midland TX 79705	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
20	9314 8699 0430 0047 8979 19	Keith Pratt Daniels 912 E 530 N Heber City UT 84032	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
21	9314 8699 0430 0047 8979 26	Llano Natural Resources 4920 S. Loop 289, Suite 206 Lubbock TX 79414	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
22	9314 8699 0430 0047 8979 33	Mavros Minerals, LLC 4000 N. Big Spring, Suite 310 Midland TX 79705	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
23	9314 8699 0430 0047 8979 40	Mavros Minerals, LLC 4000 N. Big Spring, Suite 310 Midland TX 79705	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
24	9314 8699 0430 0047 8979 57	MO Oil, LLC P.O. Box 429 Roswell NM 88202	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
25	9314 8699 0430 0047 8979 64	MRC Permian LKE, Co. 5400 LBJ Freeway Dallas TX 75240	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
26	9314 8699 0430 0047 8979 71	Oak Valley Land & Mineral, LP 4000 N. Big Spring, Suite 310 Midland TX 79705	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
27	9314 8699 0430 0047 8979 88	Oak Valley Mineral & Land, LP 4000 N. Big Spring, Suite 310 Midland TX 79705	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
28	9314 8699 0430 0047 8979 95	Ohio State University 190 N. Oval Mall Columbus OH 43210	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
29	9314 8699 0430 0047 8980 08	OXY USA Inc. 5 Greeway Plaza, Suite 110 Houston TX 77046	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
30	9314 8699 0430 0047 8980 15	OXY USA WTP, LLC 5 Greeway Plaza, Suite 110 Houston TX 77046	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice

Zina Crum  
Modrall Sperling  
500 4th Street NW  
Suite 1000  
Albuquerque NM 87102



PS Form 3877  
Type of Mailing: CERTIFIED  
06/20/2018



Firm Mailing Book ID: 145758

Line	Article Number	Name, Street & P.O. Address	Postage	Fee	R.R.Fee	Reference	Rest.Del.Fee Contents
31	9314 8699 0430 0047 8980 22	OXY Y-1 Company 5 Greeway Plaza, Suite 110 Houston TX 77046	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
32	9314 8699 0430 0047 8980 39	Pamela Dennis Dial 2106 Oxford Ave. Austin TX 78704	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
33	9314 8699 0430 0047 8980 46	Robert E. Landreth 110 W Louisiana, Suite 404 Midland TX 79701	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
34	9314 8699 0430 0047 8980 53	Shamrock Royalty LLC 200 W. Highway 6 Woodway TX 76712	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
35	9314 8699 0430 0047 8980 60	Synergy Land Group LLC P.O. Box 82009 Lafayette LA 70598	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
36	9314 8699 0430 0047 8980 77	Tap Rock Resources, LLC 602 Park Point Drive, Suite 200 Golden CO 80401	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
37	9314 8699 0430 0047 8980 84	Tap Rock Resources, LLC 602 Park Point Drive, Suite 200 Golden CO 80401	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
38	9314 8699 0430 0047 8980 91	West Texas A&M University c/o The Texas A&M University System - Office of General Counse 301 Tarrow Street, 6th Floor College Station TX 77840	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
39	9314 8699 0430 0047 8981 07	Y-20 II, LLC P.O. Box 2078 Abline TX 79604	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
40	9314 8699 0430 0047 8981 14	Yakka III, LLC P.O. Box 2078 Abline TX 79604	\$1.21	\$3.45	\$1.50	81363-0132	\$0.00 Notice
<b>Totals:</b>			<b>\$48.40</b>	<b>\$138.00</b>	<b>\$60.00</b>		<b>\$0.00</b>
<b>Grand Total:</b>							<b>\$246.40</b>

List Number of Pieces  
Listed by Sender

Total Number of Pieces  
Received at Post Office

Postmaster:  
Name of receiving employee

Dated:

Report - CertifiedPro.net  
5/20/2018 to 6/20/2018  
Name: zinacrum  
8/7/2018 8:12:24 AM

Name 2	Address 1	Address 2	Address 3	City	State	Zip	FMB ID	User Name	User ID	Mailing Status	Service Options
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	110 W Louisiana, Suite 404			Midland	TX	79701	145758	zinacrum	20112	Lost	Return Receipt - Electronic
	305 S. Broadway Ave., Suite 304			Tyler	TX	75702	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	1001 17th Street, Suite 1800			Denver	CO	80202	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	6301 Deauville Blvd.			Midland	TX	79706	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	6301 Deauville Blvd.			Midland	TX	79706	145758	zinacrum	20112	Lost	Return Receipt - Electronic
	1111 Bagby Street, Suite 2150			Houston	TX	77002	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	One Concho Center, 600 W Illinois Avenue			Midland	TX	79701	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	One Concho Center, 600 W Illinois Avenue			Midland	TX	79701	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	1018 North 5th			Abilene	TX	79604	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
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	605 Richard Arrington, Jr. Blvd			North Birmingham	AL	35203	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
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	912 E 530 N			Heber City	UT	84032	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
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	4000 N. Big Spring, Suite 310			Midland	TX	79705	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
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	190 N. Oval Mall			Columbus	OH	43210	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
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	5 Greeway Plaza, Suite 110			Houston	TX	77046	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
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	200 W. Highway 6			Woodway	TX	76712	145758	zinacrum	20112	Lost	Return Receipt - Electronic
	P.O. Box 82009			Lafayette	LA	70598	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	602 Park Point Drive, Suite 200			Golden	CO	80401	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	602 Park Point Drive, Suite 200			Golden	CO	80401	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
ern - Office of General Counse	301 Tarrow Street, 6th Floor			College Station	TX	77840	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
	P.O. Box 2078			Abilene	TX	79604	145758	zinacrum	20112	Delivered	Return Receipt - Electronic
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	301 Dinosaur Trail			Santa Fe	NM	87508	145773	zinacrum	20112	Lost	Return Receipt - Electronic

# Affidavit of Publication

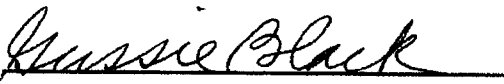
STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

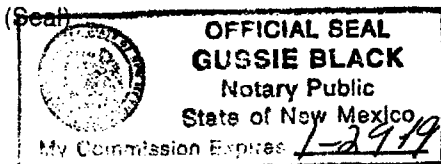
Beginning with the issue dated  
June 22, 2018  
and ending with the issue dated  
June 22, 2018.

  
Publisher

Sworn and subscribed to before me this  
22nd day of June 2018.

  
Business Manager

My commission expires  
January 29, 2019



This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE  
June 22, 2018

CASE No. 16307: Notice to all affected parties, as well as the heirs and devisees of Chevron U.S.A. Inc.; Tap Rock Resources, LLC; MRC Permian LKE, Co.; West Texas A&M University c/o The Texas A&M University System - Office of General Counsel; Ohio State University; MO Oil, LLC; Foundation Minerals; Mavros Minerals, LLC; Oak Valley Land & Mineral, LP; COG Operating LLC; COG Production, LLC; EOG Resources Inc.; EOG Y Resources Inc.; EOG A Resources Inc.; EOG M Resources Inc.; OXY USA Inc.; OXY USA WTP, LLC; OXY Y-1 Company; Centennial Resource Production, LLC; Chevron USA, Inc.; Synergy Land Group LLC; Energen Resources Corp.; Bergfeld Land & Minerals Group LLC; Shamrock Royalty LLC; Y-20 II, LLC; Yakka III, LLC; Crood Fund I LP; Chisos Mineral, LLC; Llano Natural Resources; Darbe Daniels Nokes; Keith Pratt Daniels; Foundation Minerals, LLC; Oak Valley Mineral & Land, LP; Pamela Dennis Dial; Estate of Cyle Britton Atwood; Aquinnah Resources LLC; Robert E. Landreth; Advance Energy Partners LLC of Marathon Oil Permian LLC's application for a non-standard spacing and proration unit, non-standard locations, and compulsory pooling, Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on July 12, 2018, to consider this application. Applicant seeks an order from the Division: (1) creating a standard 320-acre, more or less, spacing and proration unit in covering the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico; (2) approving non-standard locations; and, (3) pooling all mineral interests in the Wolfcamp formation underlying this proposed standard spacing and proration unit. This proposed standard spacing and proration unit will be the unit for the Flowmaster Fee 24-34-15 WD 3H well, to be horizontally drilled. The producing areas for this well will contain unorthodox locations. Also to be considered will be the cost of drilling and completing said well, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the well, and a 200% charge for risk involved in drilling said well. Said area is located approximately 17 miles northwest of Jal, New Mexico. #32948

01104570

00213827

DOLORES SERNA  
MODRALL, SPERLING, ROEHL, HARRIS &  
P. O. BOX 2168  
ALBUQUERQUE, NM 87103-2168



# Affidavit of Publication

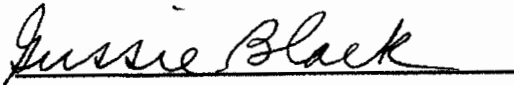
STATE OF NEW MEXICO  
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated  
June 22, 2018  
and ending with the issue dated  
June 22, 2018.

  
Publisher

Sworn and subscribed to before me this  
22nd day of June 2018.

  
Business Manager

My commission expires  
January 29, 2019

(Seal)



OFFICIAL SEAL  
GUSSIE BLACK  
Notary Public  
State of New Mexico  
My Commission Expires 1-29-19

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

## LEGAL NOTICE June 22, 2018

CASE No. 16306; Notice to all affected parties, as well as the heirs and devisees of Chevron U.S.A. Inc.; Tap Rock Resources, LLC; MRC Permian LKE, Co.; West Texas A&M University c/o The Texas A&M University System - Office of General Counsel; Ohio State University; MO Oil, LLC; Foundation Minerals; Mavros Minerals, LLC; Oak Valley Land & Mineral, LP; COG Operating LLC; COG Production, LLC; EOG Resources Inc.; EOG Y Resources Inc.; EOG A Resources Inc.; EOG M Resources Inc.; OXY USA Inc.; OXY USA WTP, LLC; OXY Y-1 Company; Centennial Resource Production, LLC; Chevron USA, Inc.; Synergy Land Group LLC; Energen Resources Corp.; Bergfeld Land & Minerals Group LLC; Shamrock Royalty LLC; Y-20 II, LLC; Yakka III, LLC; Crood Fund I LP; Chisos Mineral, LLC; Llano Natural Resources; Darbe Daniels Nokes; Keith Pratt Daniels; Foundation Minerals, LLC; Oak Valley Mineral & Land, LP; Pamela Dennis Dial; Estate of Cyle Britton Atwood; Aquinnah Resources LLC; Robert E. Landreth; Advance Energy Partners LLC of Marathon Oil Permian LLC's application for a non-standard spacing and proration unit, non-standard locations, and compulsory pooling, Lea County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on July 12, 2018, to consider this application. Applicant seeks an order from the Division: (1) creating a standard 320-acre, more or less, spacing and proration unit in covering the W/2 of Section 15, Township 24 South, Range 34 East, NMPM, Lea County, New Mexico; (2) approving non-standard locations; and, (3) pooling all mineral interests in the Wolfcamp formation underlying this proposed standard spacing and proration unit. This proposed standard spacing and proration unit will be the unit for the Flowmaster Fee 24-34-15 WXY 2H, Flowmaster Fee 24-34-15 WA 6H, and Flowmaster Fee 24-34-15 WA 14H wells, to be horizontally drilled. The producing areas for these wells will contain unorthodox locations. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 17 miles northwest of Jai, New Mexico.  
#32947

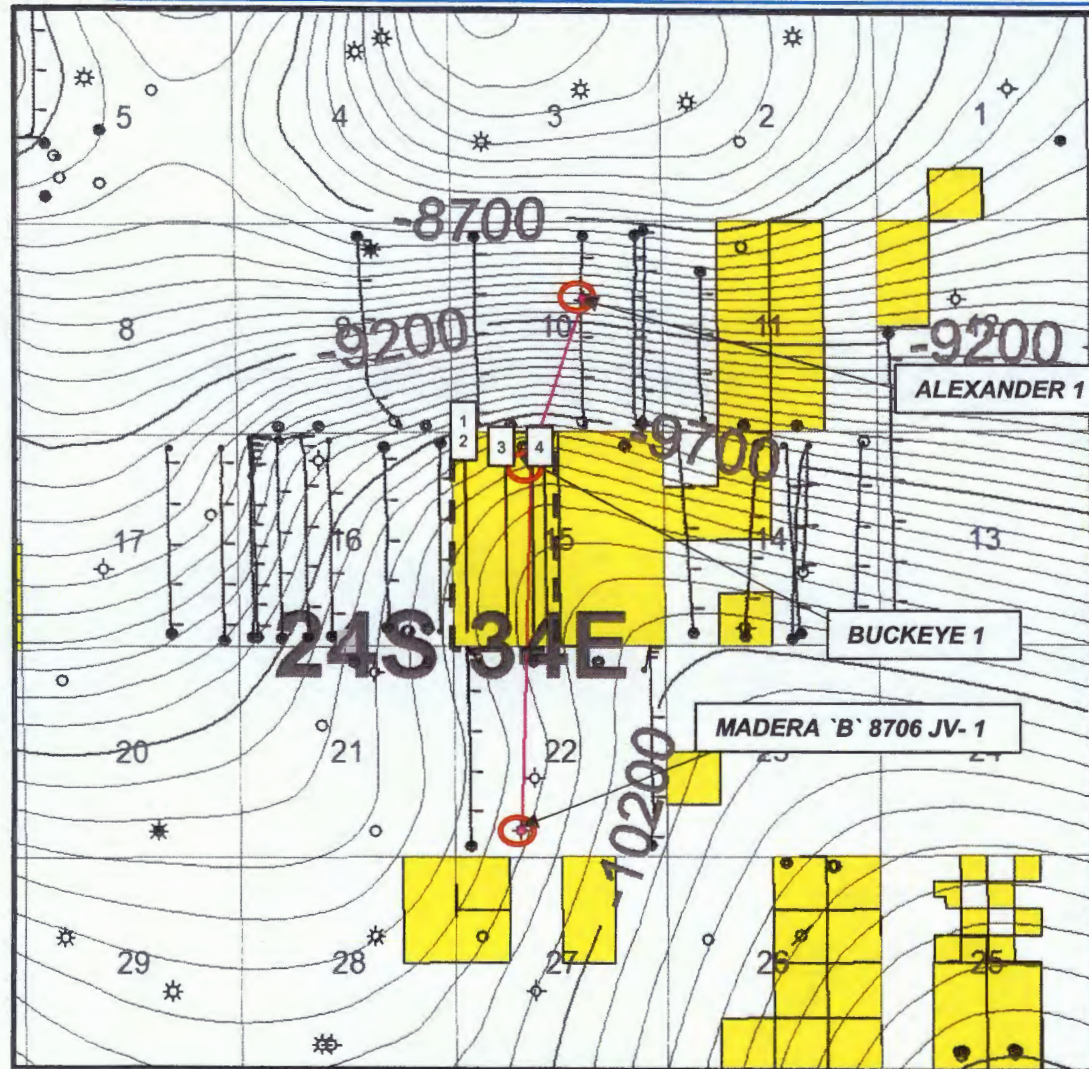
01104570

00213823

DOLORES SERNA  
MODRALL, SPERLING, ROEHL, HARRIS &  
P. O. BOX 2168  
ALBUQUERQUE, NM 87103-2168

# Flowmaster Fee 24 34 15 WA 6H/WD 3H/WXY 2H/WA 14H

## Structure Map – Top of Wolfcamp D4 (SSTVD)



### Map Legend



MRO – Horizontal Location



No offsetting WD producers



MRO Acreage



Project Area

- 1 Flowmaster Fee 24 34 15 WA 6H
- 2 Flowmaster Fee 24 34 15 WD 3H
- 3 Flowmaster Fee 24 34 15 WXY 2H
- 4 Flowmaster Fee 24 34 15 WA 14H

C.I. = 50'



1 mile

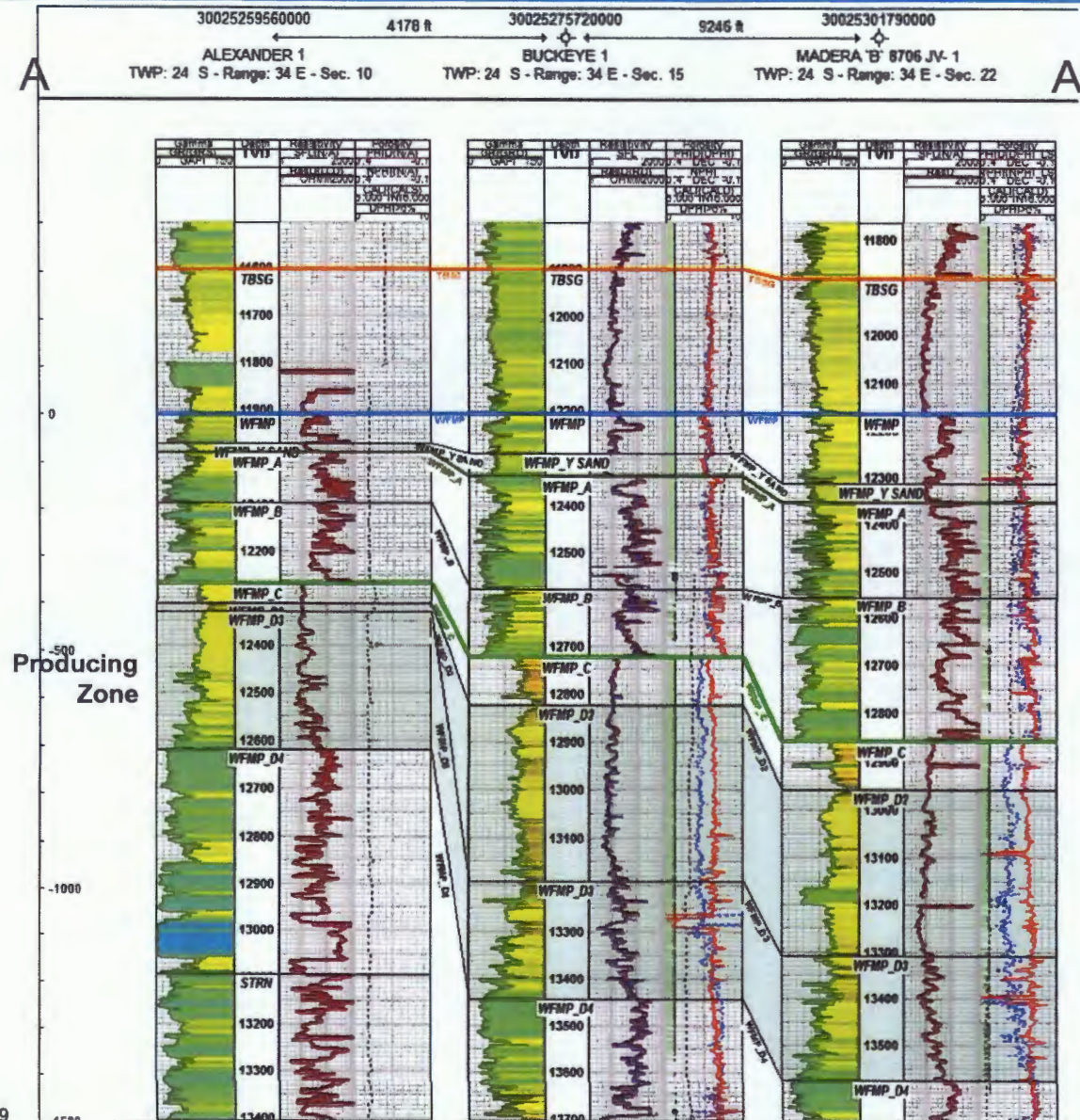
EXHIBIT

7



# Flowmaster Fee 24 34 15 WA 6H/WD 3H/WXY 2H/WA 14H

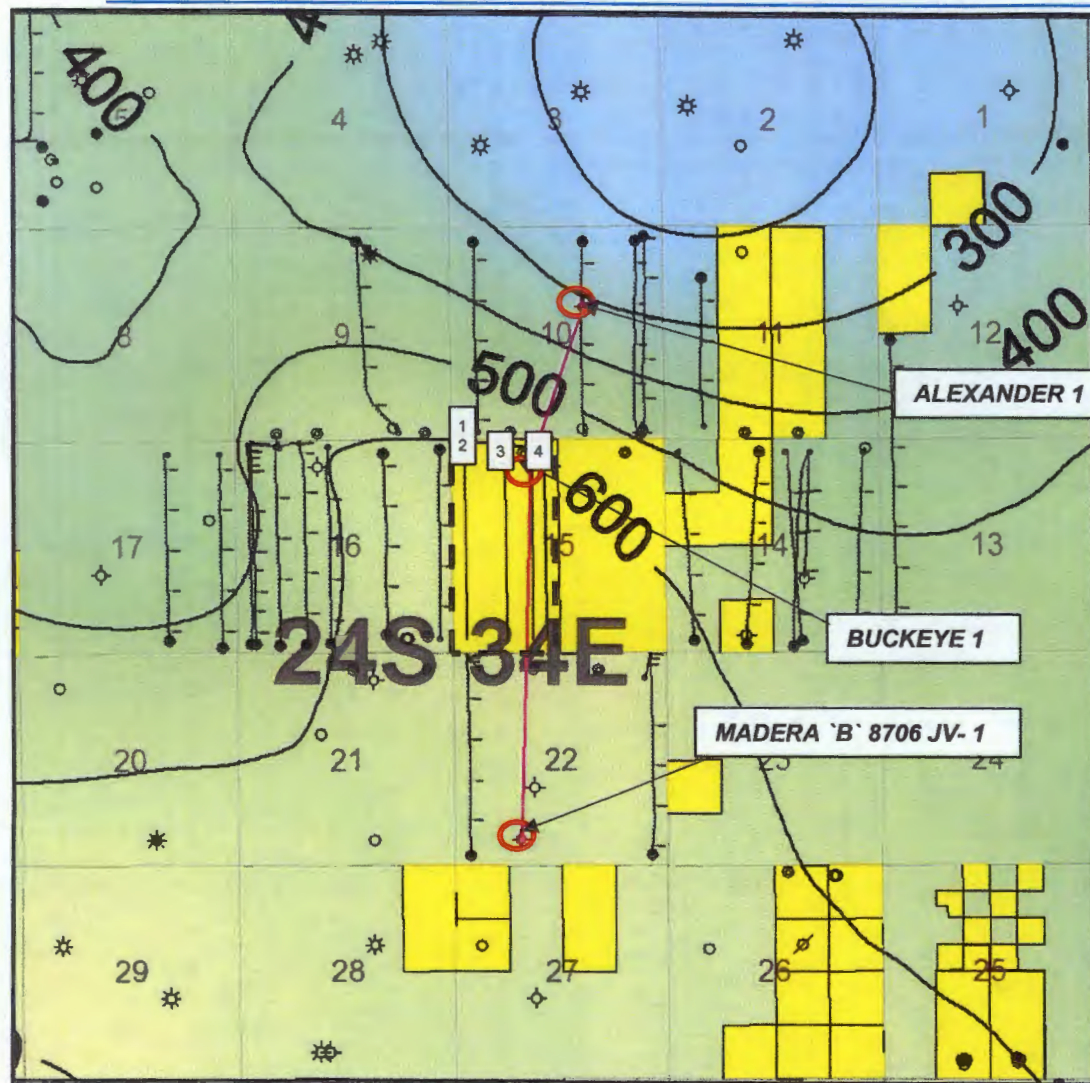
## Stratigraphic Cross Section (Top Wolfcamp Datum)





# Flowmaster Fee 24 34 15 WA 6H/WD 3H/WXY 2H/WA 14H

Gross Interval Isochore – Wolfcamp D2 to Wolfcamp D4



## Map Legend



MRO – Horizontal Location



No offsetting WD producers

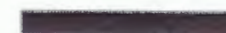


MRO Acreage



Project Area

C.I. = 100'

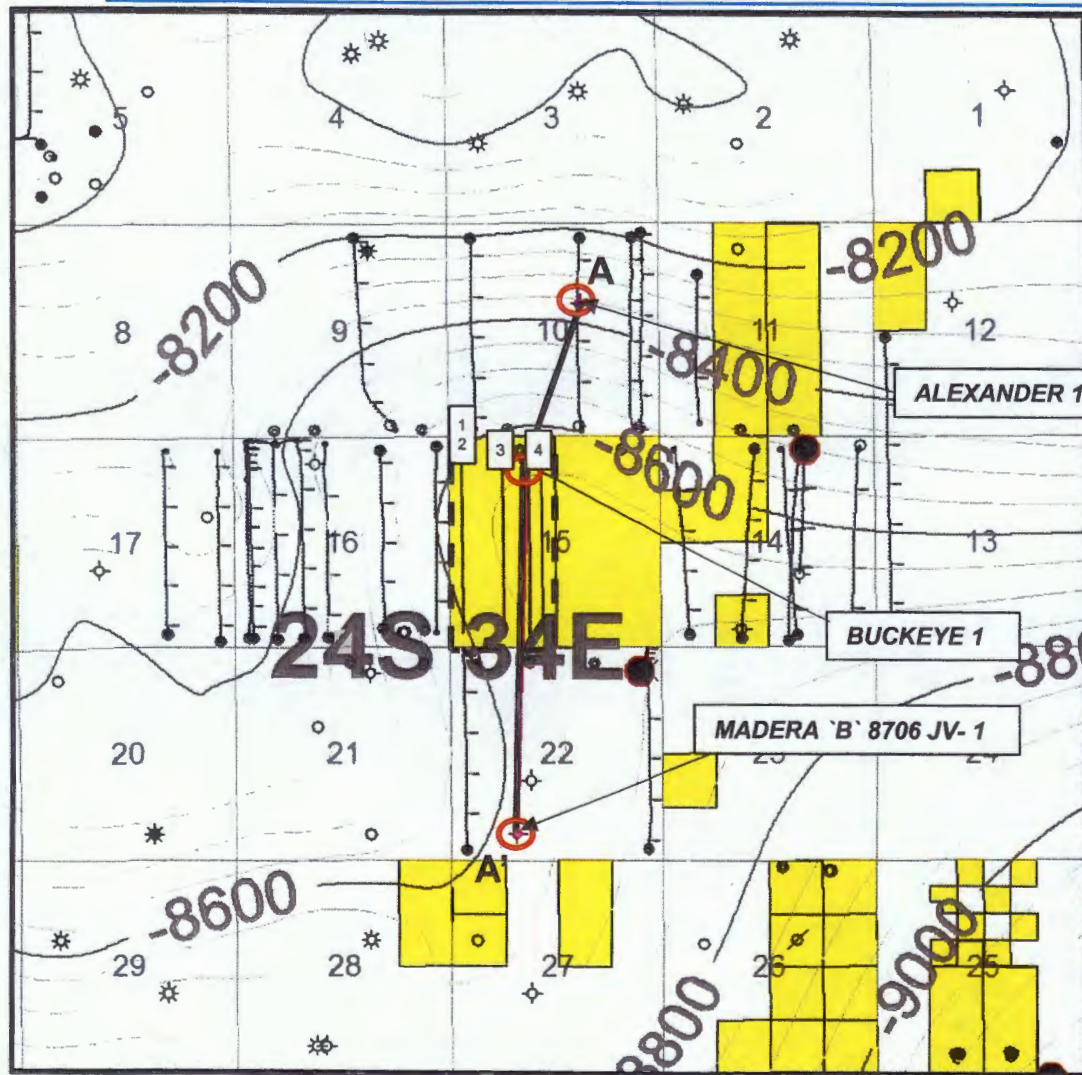


1 mile

- 1 Flowmaster Fee 24 34 15 WA 6H
- 2 Flowmaster Fee 24 34 15 WD 3H
- 3 Flowmaster Fee 24 34 15 WXY 2H
- 4 Flowmaster Fee 24 34 15 WA 14H

# Flowmaster Fee 24 34 15 WA 6H/WD 3H/WXY 2H/WA 14H

## Structure Map – Top of Wolfcamp (SSTVD)



### Map Legend



MRO – Horizontal Location



Offsetting WXY/WA Producers



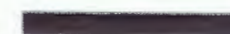
MRO Acreage



Project Area

- 1 Flowmaster Fee 24 34 15 WA 6H
- 2 Flowmaster Fee 24 34 15 WD 3H
- 3 Flowmaster Fee 24 34 15 WXY 2H
- 4 Flowmaster Fee 24 34 15 WA 14H

C.I. = 50'



1 mile

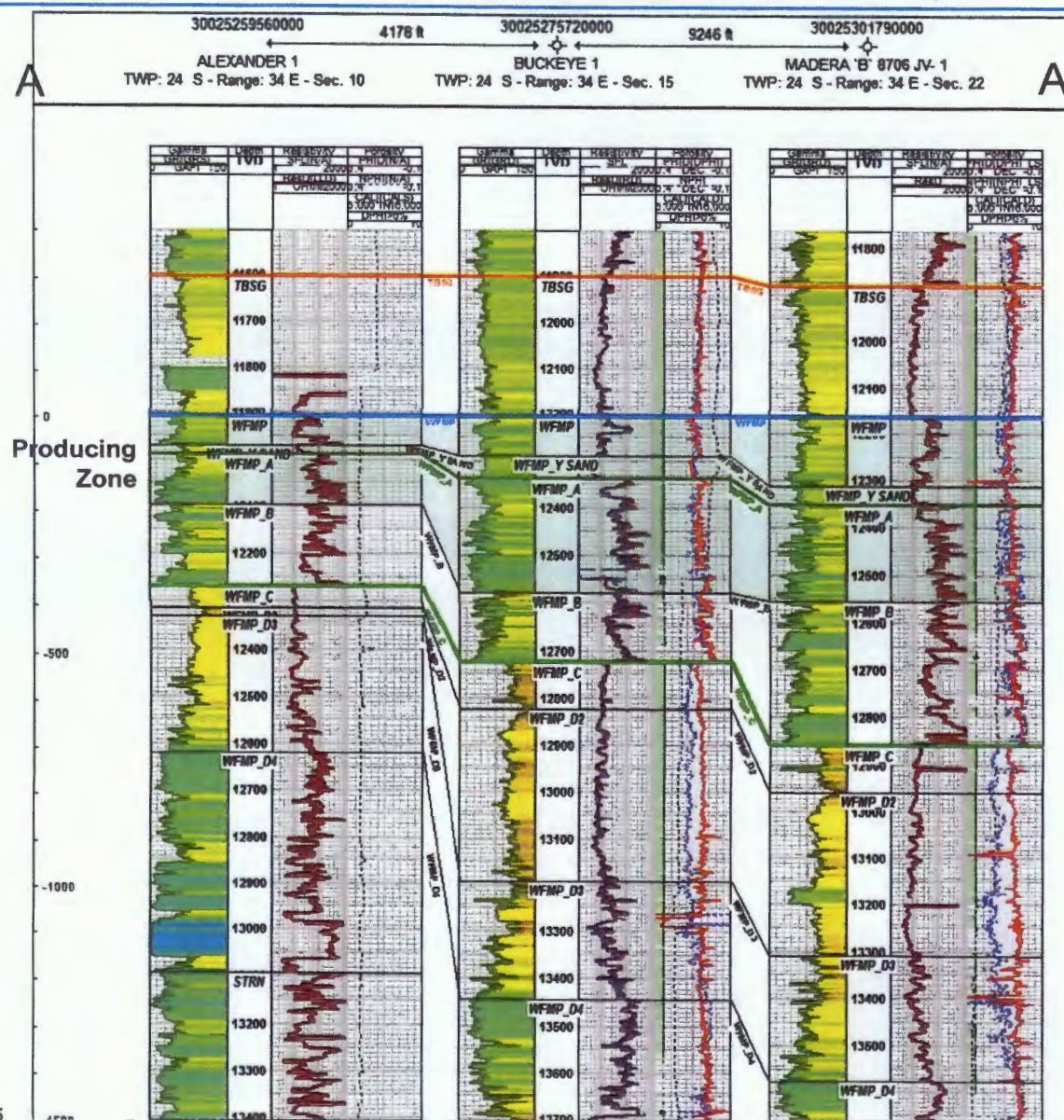
EXHIBIT

8



# Flowmaster Fee 24 34 15 WA 6H/WD 3H/WXY 2H/WA 14H

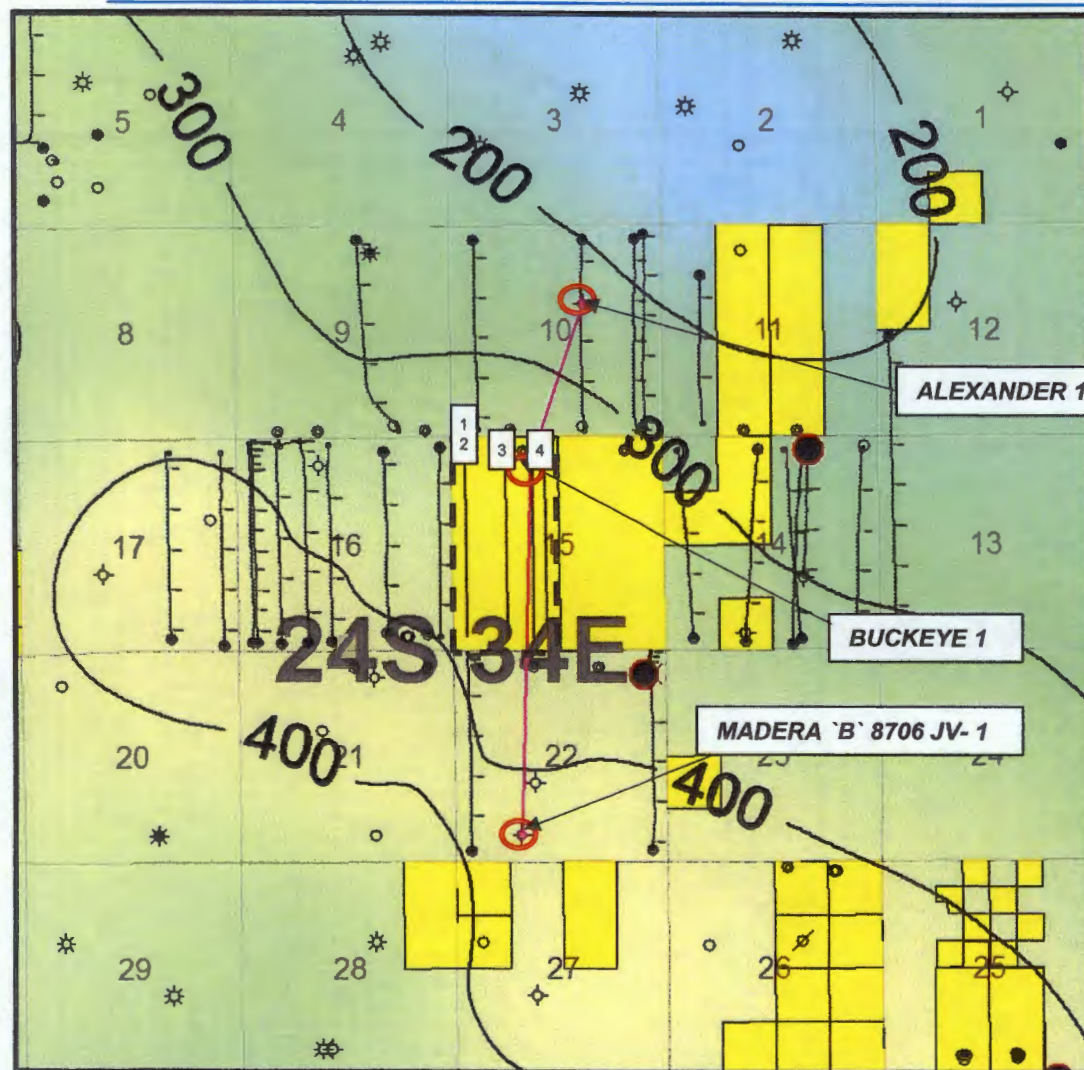
## Stratigraphic Cross Section (Top Wolfcamp Datum)





# Flowmaster Fee 24 34 15 WA 6H/WD 3H/WXY 2H/WA 14H

Gross Interval Isochore – Wolfcamp to Wolfcamp B



## Map Legend



MRO – Horizontal Location



Offsetting WXY/WA Producers



MRO Acreage



Project Area

C.I. = 100'



1 mile

- 1 Flowmaster Fee 24 34 15 WA 6H
- 2 Flowmaster Fee 24 34 15 WD 3H
- 3 Flowmaster Fee 24 34 15 WXY 2H
- 4 Flowmaster Fee 24 34 15 WA 14H