

Before the Oil Conservation Division Examiner Hearing January 10-11, 2019

Case No. 16415, 16416, 16417

Fremen 7 WD Fed Com 1H, Fremen WXY Fed Com 2H, & Fremen 7 WA
Fed Com 3H, Fremen 7 WXY Fed Com 5H, Fremen 7 WA Fed Com 9H



Exhibit 1

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

**AMENDED APPLICATION OF MARATHON
OIL PERMIAN LLC FOR COMPULSORY
POOLING, EDDY COUNTY, NEW MEXICO.**

CASE NO. 16415

AMENDED APPLICATION

Marathon Oil Permian LLC (“Marathon”), OGRID Number 372098, through its undersigned attorneys, hereby makes an amended application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. 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 S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico to form a 640-acre, more or less, spacing unit.
3. Marathon plans to drill the **Fremen 7 WD Fed Com 1H** well to a depth sufficient to test Wolfcamp formation. This well will be horizontally drilled.
4. This well will comply with the Division’s setback requirements.
5. This well will be located within the Purple Sage Wolfcamp Gas Pool.



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 in the Wolfcamp formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

8. Marathon further requests that it be allowed one (1) year between the time the well is drilled and completion of the well under the order issued by the Division.

WHEREFORE, this case is set for hearing before an Examiner of the Oil Conservation Division on January 10, 2019, Marathon requests that, after notice and hearing as required by law, the Division enter its order:

A. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico;

B. Designating Marathon as operator of this unit and the well to be drilled thereon;

C. Authorizing Marathon to recover its costs of drilling, equipping and completing the well;

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

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

F. Allowing a period of one (1) year between when the well is drilled and when the well is completed under the order.

Respectfully submitted,

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

By: Deana M. Bennett

Deana M. Bennett

Zoe E. Lees

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500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800

Attorneys for Applicant

CASE NO. 16415: Amended application of Marathon Oil Permian LLC for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Fremen 7 WD Fed Com 1H** well, to be horizontally drilled. The producing area for this well will be orthodox. 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, and allowing a one year period between when the well is drilled and when the well is completed. Said area is located approximately Nine (9) miles West of Malaga, New Mexico.

Exhibit 2

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

**AMENDED APPLICATION OF MARATHON
OIL PERMIAN LLC FOR COMPULSORY
POOLING, EDDY COUNTY, NEW MEXICO.**

CASE NO. 16416

AMENDED APPLICATION

Marathon Oil Permian LLC (“Marathon”), OGRID Number 372098, through its undersigned attorneys, hereby makes an amended application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. 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 S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico to form a 640-acre, more or less, spacing unit.
3. Marathon plans to drill the **Fremen 7 WXY Fed Com 2H** well to a depth sufficient to test the Wolfcamp formation. This well will be horizontally drilled.
4. This well will comply with the Division’s setback requirements.
5. This well will be located within the Purple Sage Wolfcamp Gas Pool.



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 in the Wolfcamp formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

8. Marathon further requests that it be allowed one (1) year between the time the well is drilled and completion of the well under the order issued by the Division.

WHEREFORE, this case is set for hearing before an Examiner of the Oil Conservation Division on January 10, 2019, Marathon requests that, after notice and hearing as required by law, the Division enter its order:

A. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico;

B. Designating Marathon as operator of this unit and the well to be drilled thereon;

C. Authorizing Marathon to recover its costs of drilling, equipping and completing the well;

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

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

F. Allowing a period of one (1) year between when the well is drilled and when the well is completed under the order.

Respectfully submitted,

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

By: Deana M. Bennett

Deana M. Bennett

Zoe E. Lees

Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800

Attorneys for Applicant

CASE NO. 16416: Amended Application of Marathon Oil Permian LLC for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Fremen 7 WXY Fed Com 2H** well, to be horizontally drilled. The producing area for this well will be orthodox. 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, and allowing a one year period between when the well is drilled and when the well is completed. Said area is located approximately Nine (9) miles West of Malaga, New Mexico.

Exhibit 3

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

**AMENDED APPLICATION OF MARATHON
OIL PERMIAN LLC FOR COMPULSORY
POOLING, EDDY COUNTY, NEW MEXICO.**

CASE NO. 16417

AMENDED APPLICATION

Marathon Oil Permian LLC (“Marathon”), OGRID Number 372098, through its undersigned attorneys, hereby makes an amended application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. 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 S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico to form a 640-acre, more or less, spacing unit.
3. Marathon plans to drill the **Fremen 7 WA Fed Com 3H, Fremen 7 WXY Fed Com 5H, and the Fremen 7 WA Fed Com 9H** wells 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 Purple Sage Wolfcamp Gas Pool.



5. 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.

6. The pooling of all interests in the Wolfcamp formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.

7. Marathon further requests that it be allowed one (1) year between the time the wells are drilled and completion of the first well under the order issued by the Division.

WHEREFORE, this case is set for hearing before an Examiner of the Oil Conservation Division on January 10, 2019, Marathon requests that, after notice and hearing as required by law, the Division enter its order:

A. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico;

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

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

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

E. 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.

F. Allowing a time period of one (1) year between when the wells are drilled and when the first well is completed under the order.

Respectfully submitted,

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

By: Deana M. Bennett

Deana M. Bennett

Zoe E. Lees

Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800

Attorneys for Applicant

CASE NO. 16417: Amended Application of Marathon Oil Permian LLC for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division: pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Fremen 7 WA Fed Com 3H, Fremen 7 WXY Fed Com 5H, and the Fremen 7 WA Fed Com 9H** wells, to be horizontally drilled. The producing area for these wells will be orthodox. 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, and allowing a one year period between when the wells are drilled and when the first well is completed. Said area is located approximately Nine (9) miles West of Malaga, New Mexico.

Exhibit 4

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) 746-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Bruzos Rd., Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-5170
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, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 98220	Pool Name PURPLE SAGE;WOLFCAMP (GAS)
Property Code	Property Name FREMEN 7 WD FED COM	Well Number 1H
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC	Elevation 3247'

Surface Location

UL or lot no. M	Section 7	Township 24S	Range 27E	Lot Idn	Feet from the 757	North/South line SOUTH	Feet from the 290	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot no. P	Section 8	Township 24S	Range 27E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 100	East/West line EAST	County EDDY
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Dedicated Acres 640.00	Joint or Infill	Consolidated Code	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.

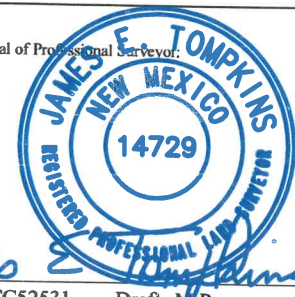
OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>			
Signature _____ Date _____			
Print Name _____			
E-mail Address _____			
SURVEYORS CERTIFICATION <i>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.</i>			
December 5, 2018 Date of Survey _____			
Signature and Seal of Professional Surveyor:  _____ James E. Tompkins			
Job No.: WTC52531 Draft: M.P. JAMES E. TOMPKINS 14729 Certificate Number _____			

EXHIBIT
4

NW CORNER
NMSP-E (NAD 83)
N.(Y): = 450715.8'
E.(X): = 570845.6'
LAT.: = 32.2390583° N
LON.: = 104.2377778° W
NMSP-E (NAD 27)
N.(Y): = 450657.7'
E.(X): = 529663.2'
LAT.: = 32.2389386° N
LON.: = 104.2373943° W

NE/NW CORNER
NMSP-E (NAD 83)
N.(Y): = 450745.7'
E.(X): = 576072.8'
LAT.: = 32.2391667° N
LON.: = 104.2208333° W
NMSP-E (NAD 27)
N.(Y): = 450687.9'
E.(X): = 534890.3'
LAT.: = 32.2390067° N
LON.: = 104.2204883° W

NE CORNER
NMSP-E (NAD 83)
N.(Y): = 450775.4'
E.(X): = 581299.7'
LAT.: = 32.2391914° N
LON.: = 104.2040814° W
NMSP-E (NAD 27)
N.(Y): = 450717.2'
E.(X): = 540117.1'
LAT.: = 32.2390720° N
LON.: = 104.2035833° W

SHL: 757' FSL, 290' FWL
NAD 83, NMSP-E, N.(Y): = 446172.0', E.(X): = 571114.5'
LAT.: = 32.2285664° N, LON.: = 104.2370372° W
NAD 27, NMSP-E, N.(Y): = 446114.0', E.(X): = 529632.0'
LAT.: = 32.2284474° N, LON.: = 104.2365381° W
FTP/KOP: 330' FSL, 100' FWL
NAD 83, NMSP-E, N.(Y): = 445744.9', E.(X): = 570924.6'
LAT.: = 32.2253930° N, LON.: = 104.2376526° W
NAD 27, NMSP-E, N.(Y): = 445687.0', E.(X): = 529742.1'
LAT.: = 32.2252740° N, LON.: = 104.2371534° W

FTP/KOP: 330' FSL, 100' FWL
SW CORNER
NMSP-E (NAD 83)
N.(Y): = 445415.0'
E.(X): = 570824.5'
LAT.: = 32.2244861° N
LON.: = 104.2380556° W
NMSP-E (NAD 27)
N.(Y): = 445357.0'
E.(X): = 529642.0'
LAT.: = 32.2243672° N
LON.: = 104.2374781° W

SE/SW CORNER
NMSP-E (NAD 83)
N.(Y): = 445426.2'
E.(X): = 576065.3'
LAT.: = 32.2245000° N
LON.: = 104.2211111° W
NMSP-E (NAD 27)
N.(Y): = 445367.2'
E.(X): = 534882.7'
LAT.: = 32.2243812° N
LON.: = 104.2205310° W

SE CORNER
NMSP-E (NAD 83)
N.(Y): = 445426.7'
E.(X): = 581312.0'
LAT.: = 32.2244883° N
LON.: = 104.2040824° W
NMSP-E (NAD 27)
N.(Y): = 445368.6'
E.(X): = 540129.4'
LAT.: = 32.2243688° N
LON.: = 104.2035646° W

LTP/BHL: 330' FSL, 100' FEL
NAD 83, NMSP-E, N.(Y): = 445756.6', E.(X): = 581206.3'
LAT.: = 32.2253958° N, LON.: = 104.2044029° W
NAD 27, NMSP-E, N.(Y): = 445698.5', E.(X): = 540023.7'
LAT.: = 32.2252760° N, LON.: = 104.2039051° W

SHL: 290'
757'
LTP/BHL: 330' FSL, 100' FEL

DISTRICT I
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DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
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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.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

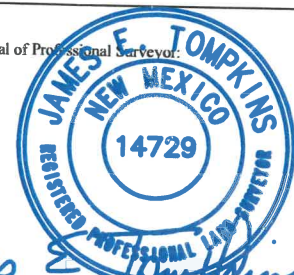
API Number		Pool Code 98220	Pool Name PURPLE SAGE;WOLFCAMP (GAS)
Property Code	Property Name FREMEN 7 WXY FED COM		Well Number 2H
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC		Elevation 3247'

Surface Location									
UL or lot no. M	Section 7	Township 24S	Range 27E	Lot Idn	Feet from the 787	North/South line SOUTH	Feet from the 290	East/West line WEST	County EDDY

Bottom Hole Location If Different From Surface									
UL or lot no. P	Section 8	Township 24S	Range 27E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 100	East/West line EAST	County EDDY
Dedicated Acres 640.00		Joint or Infill	Consolidated Code	Order No.					

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>OPERATOR CERTIFICATION</p> <p><i>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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Print Name _____</p> <p>E-mail Address _____</p>			
<p>SURVEYORS CERTIFICATION</p> <p><i>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.</i></p> <p>December 5, 2018</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p>			
<p>SHL: 787' FSL, 290' FWL</p> <p>NAD 83, NMSP-E, N.(Y): = 448201.9', E.(X): = 571114.5' LAT.: = 32.2286487° N, LON.: = 104.2370371° W NAD 27, NMSP-E, N.(Y): = 448143.9', E.(X): = 529532.0' LAT.: = 32.2265297° N, LON.: = 104.2365380° W</p> <p>FTP/KOP: 330' FSL, 100' FWL</p> <p>NAD 83, NMSP-E, N.(Y): = 445744.9', E.(X): = 570924.6' LAT.: = 32.2253930° N, LON.: = 104.2376526° W NAD 27, NMSP-E, N.(Y): = 445687.0', E.(X): = 529742.1' LAT.: = 32.2252740° N, LON.: = 104.2371534° W</p> <p>LTP/BHL: 330' FSL, 100' FEL</p> <p>NAD 83, NMSP-E, N.(Y): = 445756.6', E.(X): = 580976.3' LAT.: = 32.2253963° N, LON.: = 104.2051468° W NAD 27, NMSP-E, N.(Y): = 445698.5', E.(X): = 539793.6' LAT.: = 32.2252768° N, LON.: = 104.2046490° W</p>			
<p>SHL: 290'</p> <p>LTP/BHL: 330' FSL, 100' FEL</p>			
<p>FTP/KOP: 330' FSL, 100' FWL</p> <p>SW CORNER NMSP-E (NAD 83) N.(Y): = 445415.0' E.(X): = 570824.5' LAT.: = 32.2244861° N LON.: = 104.2380556° W</p> <p>SE/SW CORNER NMSP-E (NAD 83) N.(Y): = 445425.2' E.(X): = 576065.3' LAT.: = 32.2245000° N LON.: = 104.2211111° W</p> <p>SE CORNER NMSP-E (NAD 83) N.(Y): = 445426.7' E.(X): = 581312.0' LAT.: = 32.2244863° N LON.: = 104.2040624° W</p>			



James E. Tompkins
Job No.: WTC52531 Draft: M.P.
JAMES E. TOMPKINS 14729
Certificate Number

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 98220	Pool Name PURPLE SAGE;WOLFCAMP (GAS)
Property Code	Property Name FREMEN 7 WA FED COM	Well Number 3H
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC	Elevation 3248'

Surface Location

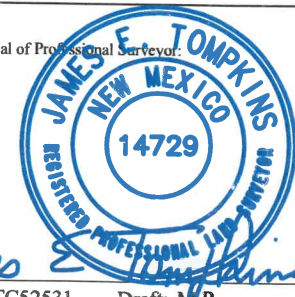
UL or lot no. M	Section 7	Township 24S	Range 27E	Lot Idn	Feet from the 817	North/South line SOUTH	Feet from the 290	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot no. P	Section 8	Township 24S	Range 27E	Lot Idn	Feet from the 990	North/South line SOUTH	Feet from the 100	East/West line EAST	County EDDY
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Dedicated Acres 640.00	Joint or Infill	Consolidated Code	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>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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>			
Signature _____ Date _____			
Print Name _____			
E-mail Address _____			
SURVEYORS CERTIFICATION <i>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.</i>			
December 5, 2018			
Date of Survey			
Signature and Seal of Professional Surveyor:  James E. Tompkins			
Job No.: WTC52531 Draft: M.P.			
JAMES E. TOMPKINS 14729			
Certificate Number			

NW CORNER
NMSP-E (NAD 83)
N(Y): = 450715.8'
E(X): = 570845.6'
LAT.: = 32.2390583° N
LON.: = 104.2377778° W
NMSP-E (NAD 27)
N(Y): = 450657.7'
E(X): = 529663.2'
LAT.: = 32.2389386° N
LON.: = 104.2373943° W

NE/NW CORNER
NMSP-E (NAD 83)
N(Y): = 450745.7'
E(X): = 576072.6'
LAT.: = 32.2391667° N
LON.: = 104.2208333° W
NMSP-E (NAD 27)
N(Y): = 450687.5'
E(X): = 534890.3'
LAT.: = 32.2390067° N
LON.: = 104.2204883° W

NE CORNER
NMSP-E (NAD 83)
N(Y): = 450775.4'
E(X): = 581299.7'
LAT.: = 32.2391914° N
LON.: = 104.2040814° W
NMSP-E (NAD 27)
N(Y): = 450717.2'
E(X): = 540117.1'
LAT.: = 32.2390720° N
LON.: = 104.2035833° W

SHL: 817' FSL, 290' FWL
NAD 83, NMSP-E, N(Y): = 446231.9', E(X): = 571114.6'
LAT.: = 32.2267312° N, LON.: = 104.2370368° W
NAD 27, NMSP-E, N(Y): = 446173.9', E(X): = 529932.1'
LAT.: = 32.2266122° N, LON.: = 104.2365377° W
FTP/KOP: 990' FSL, 100' FWL
NAD 83, NMSP-E, N(Y): = 446404.9', E(X): = 570924.8'
LAT.: = 32.2272073° N, LON.: = 104.2376499° W
NAD 27, NMSP-E, N(Y): = 446347.0', E(X): = 529742.4'
LAT.: = 32.2270883° N, LON.: = 104.2371507° W

LTP/BHL: 990' FSL, 100' FEL
NAD 83, NMSP-E, N(Y): = 446416.6', E(X): = 580964.9'
LAT.: = 32.2272107° N, LON.: = 104.2051810° W
NAD 27, NMSP-E, N(Y): = 446358.5', E(X): = 539782.3'
LAT.: = 32.2270911° N, LON.: = 104.2046832° W

SW CORNER
NMSP-E (NAD 83)
N(Y): = 445415.0'
E(X): = 570824.5'
LAT.: = 32.2244861° N
LON.: = 104.2380556° W
NMSP-E (NAD 27)
N(Y): = 445357.0'
E(X): = 529642.0'
LAT.: = 32.2243672° N
LON.: = 104.2374781° W

SE/SW CORNER
NMSP-E (NAD 83)
N(Y): = 445425.2'
E(X): = 576065.3'
LAT.: = 32.2245000° N
LON.: = 104.2211111° W
NMSP-E (NAD 27)
N(Y): = 445367.2'
E(X): = 534882.7'
LAT.: = 32.2243812° N
LON.: = 104.2205310° W

SE CORNER
NMSP-E (NAD 83)
N(Y): = 445426.7'
E(X): = 581312.0'
LAT.: = 32.2244883° N
LON.: = 104.2040624° W
NMSP-E (NAD 27)
N(Y): = 445368.6'
E(X): = 540128.4'
LAT.: = 32.2243668° N
LON.: = 104.2035646° W

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 Rd., 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, New Mexico 87505

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 98220	Pool Name PURPLE SAGE;WOLFCAMP (GAS)
Property Code	Property Name FREMEN 7 WXY FED COM	Well Number 5H
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC	Elevation 3248'

Surface Location

UL or lot no. M	Section 7	Township 24S	Range 27E	Lot Idn	Feet from the 847	North/South line SOUTH	Feet from the 290	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot no. I	Section 8	Township 24S	Range 27E	Lot Idn	Feet from the 1650	North/South line SOUTH	Feet from the 100	East/West line EAST	County EDDY
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Dedicated Acres 640.00	Joint or Infill	Consolidated Code	Order No.
---------------------------	-----------------	-------------------	-----------

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>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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p>			
Signature		Date	
Print Name			
E-mail Address			
<p>SURVEYORS 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.</p>			
December 5, 2018			
Date of Survey			
Signature and Seal of Professional Surveyor			
<p>JAMES E. TOMPKINS NEW MEXICO REGISTERED PROFESSIONAL LAND SURVEYOR 14729</p>			
Job No.: WTC52531 Draft: M.P.			
JAMES E. TOMPKINS 14729			
Certificate Number			

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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DISTRICT III
1000 Rio Brazos Rd., 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
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OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 98220	Pool Name PURPLE SAGE;WOLFCAMP (GAS)
Property Code	Property Name FREMEN 7 WA FED COM	Well Number 9H
OGRID No. 372098	Operator Name MARATHON OIL PERMIAN LLC	Elevation 3249'

Surface Location

UL or lot no. M	Section 7	Township 24S	Range 27E	Lot Idn	Feet from the 877	North/South line SOUTH	Feet from the 290	East/West line WEST	County EDDY
--------------------	--------------	-----------------	--------------	---------	----------------------	---------------------------	----------------------	------------------------	----------------

Bottom Hole Location If Different From Surface

UL or lot no. I	Section 8	Township 24S	Range 27E	Lot Idn	Feet from the 2310	North/South line SOUTH	Feet from the 100	East/West line EAST	County EDDY
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Dedicated Acres 640.00	Joint or Infill	Consolidated Code	Order No.
---------------------------	-----------------	-------------------	-----------

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>OPERATOR CERTIFICATION <i>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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Print Name _____</p> <p>E-mail Address _____</p>			
<p>SURVEYORS CERTIFICATION <i>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.</i></p> <p>December 5, 2018 Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p>			
<p>James E. Tompkins REGISTERED PROFESSIONAL LAND SURVEYOR NEW MEXICO 14729</p> <p>Job No.: WTC52531 Draft: M.P. JAMES E. TOMPKINS 14729 Certificate Number _____</p>			

SW CORNER
NMSP-E (NAD 83)
N.(Y): = 445415.0'
E.(X): = 570824.5'
LAT.: = 32.2244861° N
LON.: = 104.2380556° W
NMSP-E (NAD 27)
N.(Y): = 445357.0'
E.(X): = 529642.0'
LAT.: = 32.2243672° N
LON.: = 104.2374781° W

SE/SW CORNER
NMSP-E (NAD 83)
N.(Y): = 445425.2'
E.(X): = 578065.3'
LAT.: = 32.2245000° N
LON.: = 104.2211111° W
NMSP-E (NAD 27)
N.(Y): = 445367.2'
E.(X): = 534882.7'
LAT.: = 32.2243812° N
LON.: = 104.2205310° W

NE/NW CORNER
NMSP-E (NAD 83)
N.(Y): = 450745.7'
E.(X): = 578072.8'
LAT.: = 32.2391667° N
LON.: = 104.2208333° W
NMSP-E (NAD 27)
N.(Y): = 450687.5'
E.(X): = 534890.3'
LAT.: = 32.2390067° N
LON.: = 104.2204683° W

NE CORNER
NMSP-E (NAD 83)
N.(Y): = 450775.4'
E.(X): = 581298.7'
LAT.: = 32.2391914° N
LON.: = 104.2040814° W
NMSP-E (NAD 27)
N.(Y): = 450717.2'
E.(X): = 540117.1'
LAT.: = 32.2390720° N
LON.: = 104.2035633° W

FTP/KOP:
2310' FSL
100' FWL
NAD 83, NMSP-E, N.(Y): = 447725.0', E.(X): = 570925.3'
LAT.: = 32.2308359° N, LON.: = 104.2376446° W
NAD 27, NMSP-E, N.(Y): = 447667.0', E.(X): = 529742.9'
LAT.: = 32.2307170° N, LON.: = 104.2371454° W

LTP/BHL:
2310' FSL
100' FEL
NAD 83, NMSP-E, N.(Y): = 447736.6', E.(X): = 581172.2'
LAT.: = 32.2308385° N, LON.: = 104.2045055° W
NAD 27, NMSP-E, N.(Y): = 447678.5', E.(X): = 539989.6'
LAT.: = 32.2307190° N, LON.: = 104.2040076° W

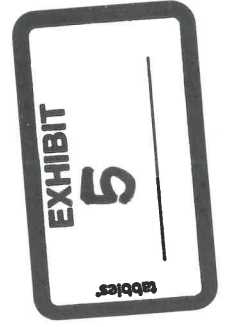
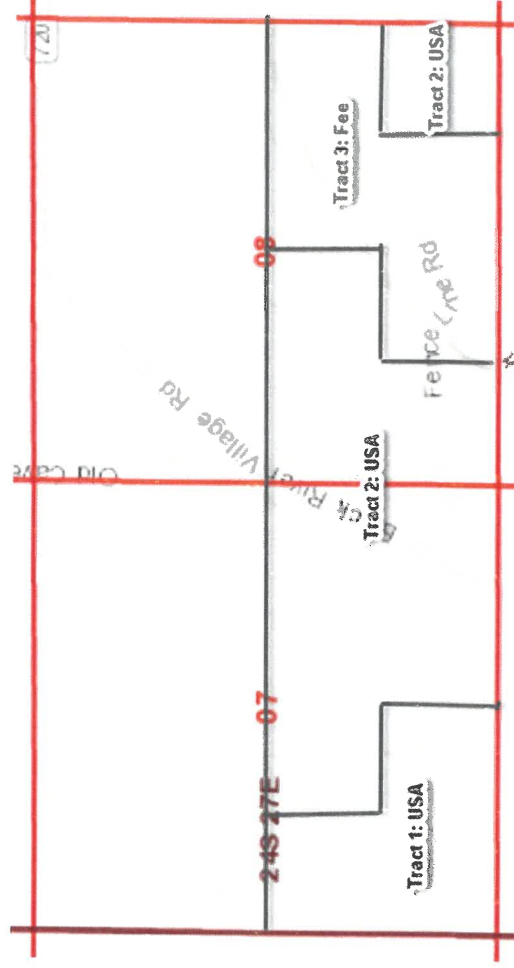
SHL: 877' FSL, 290' FWL
NAD 83, NMSP-E, N.(Y): = 446291.9', E.(X): = 571114.5'
LAT.: = 32.2268960° N, LON.: = 104.2370368° W
NAD 27, NMSP-E, N.(Y): = 446233.9', E.(X): = 529932.1'
LAT.: = 32.2267770° N, LON.: = 104.2365377° W

Exhibit 5

Lease Tract Map

Fremen 7 WA Fed Com 3H, Fremen 7 WA Fed Com 9H, Fremen 7 WD Fed Com 1H, Fremen WXY Fed Com 2H
& Fremen 7 WXY Fed Com 5H
S2 of Section 7 and S2 of Section 8, T24S-R27E – 640 acres

- Tract 1: Federal Lease LC 064200
- Tract 2: Federal Lease NMNM 112268
- Tract 3: Fee Lease



Summary of Interests

**Fremen 7 WA Fed Com 3H, Fremen 7 WA Fed Com 9H, Fremen7 WD Fed Com 1H, Fremen WXY Fed Com 2H
& Fremen 7 WXY Fed Com 5H
S2 of Section 7 and S2 of Section 8, T24S-R27E – 640 acres**

Committed Working Interest

- Marathon Oil Permian LLC

31.25%

Uncommitted Working Interest

- COG Operating, LLC
- Marshall & Winston, Inc.
- Apache Corporation

68.75%

31.25%
18.75%
18.75%

Unleased Mineral Interest

0%

Fremen List of Offset Owners, per VOG

Mewbourne Oil Company	PO Box 7698	Tyler	TX	75711-7698
COG Operating, LLC	600 W. Illinois Avenue	Midland	TX	79701
Devon Energy Production Co	20 North Broadway, Ste. 1500	Oklahoma City	OK	73102
Marshall & Winston, Inc.	P.O. Box 50880	Midland	TX	79710
ConocoPhillips Company	PO Box 2197	Houston	TX	77252
Foundation Minerals, LLC	P.O. Box 50820	Midland	TX	79710
Mavros Minerals LLC	P.O. Box 50820	Midland	TX	79710
Oak Valley Mineral and Land, LP	P.O. Box 50820	Midland	TX	79710
Trinity River Energy Lease Assets Inc.	777 Main St. Ste 900	Fort Worth	TX	76102-5313
OGX Production LTD	P.O. Box 2064	Midland	TX	79702
Chesapeake Exploration LLC	PO Box 18496	Oklahoma City	OK	73154-0496
Chevron USA Inc	6301 Deauville	Midland	TX	79706-2964
Apache Corporation	303 Veterans Airpark Lane, Ste 1000	Midland	TX	79705

Owners for Fremen

COG Operating, LLC	600 W. Illinois Avenue	Midland	TX	79705
Marshall & Winston, Inc.	P.O. Box 50880	Midland	NM	88220
Apache Corporation	303 Veterans Airpark Lane, Ste 1000	Midland	OK	73102
USA	620 Greene St.	Carlsbad	NM	88220
Devon Energy Production Co	20 North Broadway, Ste. 1500	Oklahoma City	OK	73102
O'Neill Propoerties, Ltd.	P.O. Box 2840	Midland	TX	79702

Summary of Attempted Contacts

- Marathon sent revised well proposal letters on November 29, 2018.
- Marathon then contacted parties to see if they would participate in the well and/or execute a joint operating agreement.
- Marathon conducted updated record searches and internet searches for contact information for parties it seeks to pool.
- Marathon continued to attempt to contact the parties who had not executed an agreement.
- Marathon filed an application to force pool parties who had not entered in to an agreement.
- Marathon sent notices of the force pooling application to the addresses of record.
- Marathon then also published notice in a newspaper of general circulation in the county where the wells will be located.

Exhibit 6

Travis Prewett
Senior Land Professional
THPrewett@marathonoil.com



Marathon Oil Permian, LLC
5555 San Felipe St.
Houston, Texas 77056
Telephone: (713) 296 - 3696

November 29, 2018

VIA CERTIFIED RETURN RECEIPT MAIL

Apache Corporation
303 Veterans Airpark Lane, Suite 1000
Midland, TX 79705

Re: REVISED Fremen 7 Fed 1H, 2H, 3H, 5H and 9H Well Proposals
S/2 of Section 7 & 8, T24S-27E
Eddy County, New Mexico

Dear Working Interest Owner:

Marathon Oil Permian LLC ("MRO") proposes the drilling of the following four (4) wells planned to produce from the SW of Section 7, T24S-R27E, Eddy County, New Mexico.

- Fremen 7 WA Fed Com 9H with a proposed First Take Point of ~330' FWL and ~2,310' FSL of Section 7, T24S-R27E and a proposed bottom hole location of ~330' FEL and ~2,310' FSL of Section 8, T24S-R27E. The well will have a targeted interval located in the Wolfcamp Formation (~9,028' TVD) with an estimated treated lateral length of 9,829'. The total estimated drilling and completion cost is \$10,089,286.00 as shown in the attached AFE.
- Fremen 7 WXY Fed Com 5H with a proposed First Take Point of ~330' FWL and ~1,650' FSL of Section 7, T24S-R27E and a proposed bottom hole location of ~330' FEL and ~1,650' FSL of Section 8, T24S-R27E. The well will have a targeted interval located in the Wolfcamp Formation (~8,893' TVD) with an estimated treated lateral length of 9,825'. The total estimated drilling and completion cost is \$10,089,286.00 as shown in the attached AFE.
- Fremen 7 WA Fed Com 3H with a proposed First Take Point of ~330' FWL and ~990' FSL of Section 7, T24S-R27E and a proposed bottom hole location of ~330' FEL and ~990' FSL of Section 8, T24S-R27E. The well will have a targeted interval located in the Wolfcamp Formation (~9,028' TVD) with an estimated treated lateral length of 9,824'. The total estimated drilling and completion cost is \$10,089,286.00 as shown in the attached AFE.
- Fremen 7 WXY Fed Com 2H with a proposed First Take Point of ~330' FWL and ~330' FSL of Section 7, T24S-R27E and a proposed bottom hole location of ~330' FEL and ~330' FSL of Section 8, T24S-R27E. The well will have a targeted interval located in the Wolfcamp Formation (~8,893' TVD) with an estimated treated lateral length of 9,834'. The total estimated drilling and completion cost is \$10,089,286.00 as shown in the attached AFE.
- Fremen 7 WD Fed Com 1H with a proposed First Take Point of ~330' FWL and ~330' FSL of Section 7, T24S-R27E and a proposed bottom hole location of ~330' FEL and ~330' FSL of Section 8, T24S-R27E. The well will have a targeted interval located in the Wolfcamp Formation (~9,550' TVD) with an estimated treated lateral length of 9,834'. The total estimated drilling and completion cost is \$10,626,990.00 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 if you are interested in participating, a form of this JOA will be sent to you following this proposal. The JOA will have these general provisions:

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-five (35) days of receipt of this proposal.

If you do not wish to participate, Marathon proposes to acquire your interest via term assignment at the following terms:

- 3 year lease term
- \$2000 bonus consideration per net mineral acre
- Delivering a 80% NRI, proportionately reduced

This term assignment offer terminates February 1, 2019 and is subject to due diligence and title verification satisfactory to Marathon.

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

Sincerely,



Travis Prewett
Marathon Oil Company
Land Professional – Permian Asset

<<< WELL ELECTIONS FOLLOW >>>

Drilling and Completing in the S/2 of Section 7 and 8, T24S-R27E, Eddy County, New Mexico.

Initial Elections Below

Fremen 7 WA Fed Com 9H

_____ elects to participate in the drilling, completing, and equipping of the aforementioned well.

_____ elects NOT to participate in the drilling, completing, and equipping of the aforementioned well.

Fremen 7 WXY Fed Com 5H

_____ elects to participate in the drilling, completing, and equipping of the aforementioned well.

_____ elects NOT to participate in the drilling, completing, and equipping of the aforementioned well.

Fremen 7 WA Fed Com 3H

_____ elects to participate in the drilling, completing, and equipping of the aforementioned well.

_____ elects NOT to participate in the drilling, completing, and equipping of the aforementioned well.

Fremen 7 WXY Fed Com 2H

_____ elects to participate in the drilling, completing, and equipping of the aforementioned well.

_____ elects NOT to participate in the drilling, completing, and equipping of the aforementioned well.

Fremen 7 WD Fed Com 1H

_____ elects to participate in the drilling, completing, and equipping of the aforementioned well.

_____ elects NOT to participate in the drilling, completing, and equipping of the aforementioned well.

Apache Corporation

By: _____

Print Name: _____

Title: _____

Date: _____

Exhibit 7

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

DATE 11/20/2018
 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY SCOTT KING
 ARTIFICIAL LIFT PREPARED BY BILLY MOORE

Asset Team	PERMIAN	FORMATION: WOLFCAMP D	WILDCAT	EXPLORATION
Field			DEVELOPMENT	RECOMPLETION
Lease/Facility	FREMEN FEDERAL 24 27 7 WD 1H		X EXPLOITATION	WORKOVER
Location	EDDY COUNTY			
Prospect	MALAGA			

Est Total Depth	<u>19,642</u>	Est Drilling Days	<u>24</u>	Est Completion Days	<u>11</u>
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LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	30,000
7001250	Land Broker Fees and Services	27,000
TOTAL LOCATION COST - INTANGIBLE		57,000

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	175,170
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	50,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	5,000
TOTAL DRILLING - TANGIBLE		639,170

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	26,000
7019220	Drilling Rig - day work/footage	624,000
7019040	Directional Drilling Services	215,000
7019020	Cement and Cementing Service	15,000
7019020	Cement and Cementing Service	25,000
7019020	Cement and Cementing Service	40,000
7019020	Cement and Cementing Service	75,000
7019020	Cement and Cementing Service	68,000
7019140	Mud Fluids & Services	43,000
7012310	Solids Control equipment	70,000
7012020	Bits	30,000
7019010	Casing Crew and Services	74,000
7016350	Fuel (Rig)	18,000
7019140	Fuel (Mud)	25,000
7001460	Water (non potable)	5,000
7012350	Water (potable)	-
7019000	Well Logging Services	20,000
7019150	Mud Logging/geosteering	15,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing Inspection/cleaning	10,000
7019110	Drill pipe/collar inspection services	25,000
7016180	Freight - truck	60,000
7001460	Water hauling and disposal (includes soil farming)	80,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	10,000
7001440	Vacuum Trucks	30,000
7000030	Contract Labor - general	3,000
7000030	Contract Labor - Operations	10,000
7001200	Contract Services - Facilities	22,000
7019300	Well Services - Well Control Services	10,000
7019350	Well Services - Well/Wellhead Services	96,000
7018150	Rental Tools and Equipment (surface rentals)	22,000
7018150	Rig Equipment and Misc.	5,000
7001110	Telecommunications Services	112,800
7001120	Consulting Services	38,400
7001400	Safety and Environmental	19,200
7018120	Rental Buildings (trailers)	-
7019310	Coring (sidewalls & analysis)	180,990
7011010	7% Contingency & Taxes	
TOTAL DRILLING - INTANGIBLE		\$2,127,390

TOTAL DRILLING COST

\$2,766,560

COMPLETION - TANGIBLE

7012580	Tubing	-
7012040	Tubing Accessories (nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
TOTAL COMPLETION - TANGIBLE		\$15,000



Asset Team PERMIAN
Field FORMATION: WOLFCAMP D
Lease/Facility FREMEN FEDERAL 24 27 7 WD 1H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
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)	360,000
7019320	Fracturing Services	4,100,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	295,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Blt, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	459,200
TOTAL COMPLETION - INTANGIBLE		\$6,779,200

TOTAL COMPLETION COST

\$6,794,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	67,350
7012500	Tanks	193,450
7012100	Heater Treater	17,560
7012640	Flare & Accessories	11,645
7000010	Electrical Labor	29,115
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,290
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$839,730

TOTAL SURFACE EQUIPMENT COST

\$ 839,730

ARTIFICIAL LIFT

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	5,000
7006640	Company Labor	6,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	42,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	Contingency & Taxes	5,000
TOTAL ARTIFICIAL LIFT		169,500

TOTAL ARTIFICIAL LIFT COST

\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

TOTAL COST

TOTAL LOCATION COST	\$ 57,000
TOTAL DRILLING COST	\$ 2,766,560
TOTAL COMPLETIONS COST	\$ 6,794,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$10,626,990

Participant's Approval

Name of
Company: _____
Signature: _____
Title: _____ Date: _____

Exhibit 8

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

DATE 11/29/2018

DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY SCOTT KING
ARTIFICIAL LIFT PREPARED BY BILLY MOORE

Asset Team PERMIAN
Field FORMATION: WOLFCAMP XY
Lease/Facility WILDCAT
Location DEVELOPMENT
Prospect EDDY COUNTY X EXPLOITATION
MALAGA WORKOVER

Est Total Depth 18,988 Est Drilling Days 22.6 Est Completion Days 11

LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	30,000
7001250	Land Broker Fees and Services	27,000
TOTAL LOCATION COST - INTANGIBLE		57,000

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	126,000
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	50,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	5,000
TOTAL DRILLING - TANGIBLE		590,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	26,000
7019220	Drilling Rig - day work/footage	587,600
7019040	Directional Drilling Services	201,000
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	40,000
7019020	Cement and Cementing Service Production	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
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)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,300
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,400
7018150	Rig Equipment and Misc.	11,300
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,220
7001400	Safety and Environmental	36,160
7018120	Rental Buildings (trailers)	18,080
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	171,196
TOTAL DRILLING - INTANGIBLE		\$2,026,856

TOTAL DRILLING COST

\$2,616,856

COMPLETION - TANGIBLE

7012580	Tubing	-
7012040	Tubing Accessories (nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
TOTAL COMPLETION - TANGIBLE		\$15,000



Asset Team PERMIAN
Field FORMATION: WOLFCAMP XY
Lease/Facility FREMEN FEDERAL 24 27 7 WKY 2H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
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)	360,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
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	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200

TOTAL COMPLETION COST \$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	67,350
7012500	Tanks	193,450
7012100	Heater Treater	17,560
7012640	Flare & Accessories	11,645
7000010	Electrical Labor	29,115
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,290
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$839,730

TOTAL SURFACE EQUIPMENT COST \$ 839,730

ARTIFICIAL LIFT

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	5,000
7006640	Company Labor	6,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	42,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	Contingency & Taxes	5,000
TOTAL ARTIFICIAL LIFT		169,500

TOTAL ARTIFICIAL LIFT COST \$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 57,000
TOTAL DRILLING COST	\$ 2,616,856
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,089,286

Participant's Approval

Name of
Company: _____
Signature: _____
Title: _____ Date: _____

Exhibit 9

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

DATE 11/20/2018

DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY SCOTT KING
ARTIFICIAL LIFT PREPARED BY BILLY MOORE

Asset Team PERMIAN
Field FORMATION: WOLFCAMP A
Lease/Facility FREMEN FEDERAL 24 27 7 WA 3H
Location EDDY COUNTY
Prospect MALAGA
WILDCAT
DEVELOPMENT
X EXPLOITATION
EXPLORATION
RECOMPLETION
WORKOVER

Est Total Depth 19,104 Est Drilling Days 22.6 Est Completion Days 11

LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	30,000
7001250	Land Broker Fees and Services	27,000
TOTAL LOCATION COST - INTANGIBLE		57,000

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	126,000
7012050	Drlg Liner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	50,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	5,000
TOTAL DRILLING - TANGIBLE		590,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	26,000
7019220	Drilling Rig - day work/footage	587,600
7019040	Directional Drilling Services	201,000
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	40,000
7019020	Cement and Cementing Service Production	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
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)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,300
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,400
7018150	Rig Equipment and Misc.	11,300
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,220
7001400	Safety and Environmental	36,160
7018120	Rental Buildings (trailers)	18,080
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	171,196
TOTAL DRILLING - INTANGIBLE		\$2,026,856

TOTAL DRILLING COST

\$2,616,856

COMPLETION - TANGIBLE

7012580	Tubing	-
7012040	Tubing Accessories (nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
TOTAL COMPLETION - TANGIBLE		\$15,000



Asset Team PERMIAN
Field FORMATION: WOLFCAMP A
Lease/Facility FREMEN FEDERAL 24 27 7 WA 3H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
700127G	Location and Access (dress location after rig move, set anchors)	10,000
701922G	Drilling Rig During Completion	-
701914G	Mud Fluids & Services	-
701903G	Coiled Tubing Services (3 runs)	350,000
701924G	Snubbing Services	-
701927G	Pulling/Swab Units	-
701635G	Fuel (from drlg)	-
701901G	Casing Crew and Services	-
701902G	Cement and Cementing Services	-
701908G	Well Testing Services (flow hand & equip)	360,000
701932G	Fracturing Services	3,750,000
701933G	Perforating	300,000
701936G	Wireline Services	15,000
700146G	Water Hauling & Disposal (frac fluids)	285,000
701618G	Freight - Truck (haul pipe; drlg & compl)	20,000
701815G	BOP Rental & Testing	-
701815G	Rental Tools and Equipment (incl drlg, lightplant, hydra-walk)	-
701815G	CT Downhole Rental Equipment (ie. Bit, BHA)	-
700003G	Contract Labor - general	60,000
700111G	Telecommunications Services	120,000
700140G	Safety and Environmental	-
700112G	Consulting Services	100,000
701815G	Zipper Manifold	250,000
701930G	Frack Stack Rentals	85,000
701619G	Freight (Transportation Services)	-
701815G	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
701812G	Rental Buildings (trailers)	35,000
700003G	Contract Labor - Pumping (pump-down pumps)	60,000
701101G	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200
TOTAL COMPLETION COST		\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

701235G	Misc. Piping, Fittings & Valves	85,795
700664G	Company Labor & Burden	-
700003G	Contract Labor - General	74,150
700111G	Telecommunication equip (Telemetry)	-
701241G	Line Pipe & Accessories	27,950
701227G	Miscellaneous Materials (containment system)	43,230
700806G	SCADA	-
701618G	Freight - truck	-
700119G	Contract Engineering	29,115
701229G	Metering and Instrumentation	237,080
701229G	I&E Materials	-
701220G	Gas Treating	-
701220G	Dehydration	-
701201G	Compressor	-
701235G	Power	-
701261G	Vapor Recovery Unit	-
701244G	Separator & other pressure vessels	67,350
701250G	Tanks	193,450
701210G	Heater Treater	17,560
701264G	Flare & Accessories	11,645
700001G	Electrical Labor	29,115
700001G	Mechanical Labor	-
701248G	Rod Pumping unit & Pad	-
701218G	Pumping Unit Engine	-
701235G	Electrical Power (electrical cooperative construction costs)	23,290
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$839,730
TOTAL SURFACE EQUIPMENT COST		\$ 839,730

ARTIFICIAL LIFT

701258G	Tubing	50,000
701204G	Tubing Accessories (nipple, wireline entry)	5,000
701255G	Wellhead Equip	5,000
701256G	Packers - Completion Equipment	5,000
700664G	Company Labor	6,000
701218G	Gas Lift Equipment	23,000
701248G	Rod Pumping, Sucker Rods & Rod Pump	-
701214G	Elect Sub Pumps (ESP)	-
701935G	Well Services-Well/Wellhead Services	42,500
701227G	Materials & Supplies-Tangible	25,000
701255G	Surface Wellhead Equipment	3,000
701239G	Pig Launchers/Receivers & Rel Equip	-
701101G	Contingency & Taxes	5,000
TOTAL ARTIFICIAL LIFT		169,500
TOTAL ARTIFICIAL LIFT COST		\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 57,000
TOTAL DRILLING COST	\$ 2,616,856
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,089,286

Participant's Approval

Name of
Company: _____
Signature: _____
Title: _____ Date: _____

Exhibit 10

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

DATE 11/20/2018
 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY SCOTT KING
 ARTIFICIAL LIFT PREPARED BY BILLY MOORE

Asset Team	PERMIAN	FORMATION: WOLFCAMP XY	WILDCAT	EXPLORATION
Field			DEVELOPMENT	RECOMPLETION
Lease/Facility	FREMEN FEDERAL 24 27 7 WKY 5-4		X EXPLOITATION	WORKOVER
Location	EDDY COUNTY			
Prospect	MALAGA			

Est Total Depth	<u>19,004</u>	Est Drilling Days	<u>22.6</u>	Est Completion Days	<u>11</u>
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LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	30,000
7001250	Land Broker Fees and Services	27,000
TOTAL LOCATION COST - INTANGIBLE		57,000

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	126,000
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	50,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	5,000
TOTAL DRILLING - TANGIBLE		590,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	26,000
7019220	Drilling Rig - day work/footage	587,600
7019040	Directional Drilling Services	201,000
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	40,000
7019020	Cement and Cementing Service Production	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
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)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,300
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,400
7018150	Rig Equipment and Misc.	11,300
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,220
7001400	Safety and Environmental	36,160
7018120	Rental Buildings (trailers)	18,080
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	171,196
TOTAL DRILLING - INTANGIBLE		\$2,026,856

TOTAL DRILLING COST

\$2,616,856

COMPLETION - TANGIBLE

7012580	Tubing	-
7012040	Tubing Accessories (nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
TOTAL COMPLETION - TANGIBLE		\$15,000



Asset Team PERMIAN
Field FORMATION: WOLF CAMP XY
Lease/Facility FREMEN FEDERAL 24 27 7 WXY 5H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
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)	360,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg, lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Blt, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$ 6,391,200
TOTAL COMPLETION COST		\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	67,350
7012500	Tanks	193,450
7012100	Heater Treater	17,560
7012640	Flare & Accessories	11,645
7000010	Electrical Labor	29,115
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,290
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$839,730
TOTAL SURFACE EQUIPMENT COST		\$ 839,730

ARTIFICIAL LIFT

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	5,000
7006640	Company Labor	6,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	42,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	Contingency & Taxes	5,000
TOTAL ARTIFICIAL LIFT		169,500
TOTAL ARTIFICIAL LIFT COST		\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

TOTAL LOCATION COST	\$ 57,000
TOTAL DRILLING COST	\$ 2,616,856
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,089,286

Participant's Approval

Name of Company: _____
Signature: _____
Title: _____ Date: _____

Exhibit 11

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

DATE 11/20/2018
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY SCOTT KING
ARTIFICIAL LIFT PREPARED BY BILLY MOORE

Asset Team	PERMIAN	FORMATION: WOLFCAMP A	WILDCAT	EXPLORATION
Field			DEVELOPMENT	RECOMPLETION
Lease/Facility	FREMEN FEDERAL 24 27 7 WA 9H		X EXPLOITATION	WORKOVER
Location	EDDY COUNTY			
Prospect	MALAGA			

Est Total Depth	19,222	Est Drilling Days	22.6	Est Completion Days	11
-----------------	--------	-------------------	------	---------------------	----

LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	30,000
7001250	Land Broker Fees and Services	27,000
TOTAL LOCATION COST - INTANGIBLE		57,000

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	126,000
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	50,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	5,000
TOTAL DRILLING - TANGIBLE		590,000

DRILLING COST - INTANGIBLE

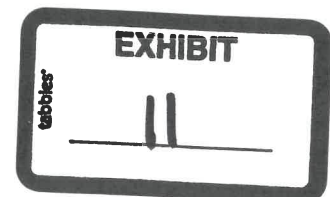
7019200	Drilling Rig Mob/Demob	26,000
7019220	Drilling Rig - day work/footage	587,600
7019040	Directional Drilling Services	201,000
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	40,000
7019020	Cement and Cementing Service Production	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
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)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,300
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,400
7018150	Rig Equipment and Misc.	11,300
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,220
7001400	Safety and Environmental	36,160
7018120	Rental Buildings (trailers)	18,080
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	171,196
TOTAL DRILLING - INTANGIBLE		\$2,026,856

TOTAL DRILLING COST

\$2,616,856

COMPLETION - TANGIBLE

7012580	Tubing	-
7012040	Tubing Accessories (nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
TOTAL COMPLETION - TANGIBLE		\$15,000



Asset Team PERMIAN
Field FORMATION: WOLFCAMP A
Lease/Facility FREMEN FEDERAL 24 27 7 WA 9H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
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)	360,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
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	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200
TOTAL COMPLETION COST		\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	67,350
7012500	Tanks	193,450
7012100	Heater Treater	17,560
7012640	Flare & Accessories	11,645
7000010	Electrical Labor	29,115
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	23,290
TOTAL SURFACE EQUIPMENT - TANGIBLE		\$839,730
TOTAL SURFACE EQUIPMENT COST		\$ 839,730

ARTIFICIAL LIFT

7012580	Tubing	50,000
7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	5,000
7006640	Company Labor	6,000
7012180	Gas Lift Equipment	23,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	42,500
7012270	Materials & Supplies-Tangible	25,000
7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	Contingency & Taxes	5,000
TOTAL ARTIFICIAL LIFT		169,500
TOTAL ARTIFICIAL LIFT COST		\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 57,000
TOTAL DRILLING COST	\$ 2,616,856
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,089,286

Participant's Approval

Name of
Company: _____
Signature: _____
Title: _____ Date: _____

Exhibit 12

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

**AMENDED APPLICATION OF MARATHON OIL PERMIAN LLC FOR
COMPUSLORY
POOLING, EDDY COUNTY, NEW MEXICO.**

CASE NO. 16415

**AMENDED APPLICATION OF MARATHON OIL PERMIAN LLC FOR
COMPUSLORY
POOLING, EDDY COUNTY, NEW MEXICO.**

CASE NO. 16416

**AMENDED APPLICATION OF MARATHON OIL PERMIAN LLC FOR
COMPUSLORY
POOLING, EDDY COUNTY, NEW MEXICO.**

CASE NO. 16417

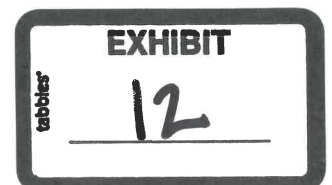
AFFIDAVIT

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

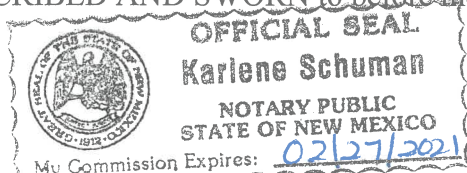
Deana M. Bennett, attorney in fact and authorized representative of Marathon Oil Permian LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Applications were sent under a notice letter and that proof of receipt is attached hereto.



Deana M. Bennett



SUBSCRIBED AND SWORN to before me this 4th day of January, 2019 by Deana M. Bennett.



My commission expires: _____

Karlene Schuman
Notary Public

Transaction Report Details - CertifiedPro.net
Firm Mail Book ID= 157858
Generated: 1/3/2019 9:36:10 AM

Certified Mail Article Number	Date Created	Reference Number	Name 1	Name 2	Address	City	State	Zip	Certified Mailing Status	Service Options	Mail Delivery Date
9314869904300054225859	2018-12-20 10:19 AM	81363-0164	State of New Mexico		P.O. Box 1148	Santa Fe	NM	87504	Delivered	Return Receipt - Electronic	01-02-2019
9314869904300054225842	2018-12-20 10:19 AM	81363-0164	EOG Resources		P.O. Box 4362	Houston	TX	77210	Delivered	Return Receipt - Electronic	01-03-2019
9314869904300054225835	2018-12-20 10:19 AM	81363-0164	Mewbourne Oil Company &	Mewbourne Energy Partners 15-A, LP	Box 7968	Tyler	TX	75711	Delivered	Return Receipt - Electronic	12-27-2018
9314869904300054225828	2018-12-20 10:19 AM	81363-0164	MRC Permian Company		5400 LBJ Freeway	Dallas	TX	75240	Delivered	Return Receipt - Electronic	12-26-2018
9314869904300054225811	2018-12-20 10:19 AM	81363-0164	ConocoPhillips Company		P.O. Box 2197	Houston	TX	77252	Delivered	Return Receipt - Electronic	12-31-2018
9314869904300054225804	2018-12-20 10:19 AM	81363-0164	Apache Corporation		2000 Post Oak Blvd, Suite 100	Houston	TX	77056	Delivered	Return Receipt - Electronic	01-02-2019
9314869904300054225798	2018-12-20 10:19 AM	81363-0164	Marshall & Winston, Inc.		6 Dista Dr. #3100	Midland	TX	79705	Delivered	Return Receipt - Electronic	12-27-2018
9314869904300054225781	2018-12-20 10:19 AM	81363-0164	James Davis & Barbara Davis		889 Black River Village	Carlsbad	NM	88220	Delivered	Return Receipt - Electronic	12-24-2018
9314869904300054225774	2018-12-20 10:19 AM	81363-0164	Sharon Meece		5315 Musket Ridge	Austin	TX	78759	Delivered	Return Receipt - Electronic	12-26-2018
9314869904300054225767	2018-12-20 10:19 AM	81363-0164	Mary Ellen Paul Meece		111 Dove Ln	Meadowlakes	TX	78654	Delivered	Return Receipt - Electronic	12-24-2018
9314869904300054225750	2018-12-20 10:19 AM	81363-0164	Escondido Oil & Gas		P.O. Box 51390	Midland	TX	79710	Delivered	Return Receipt - Electronic	12-28-2018
9314869904300054225743	2018-12-20 10:19 AM	81363-0164	Craig William Ogden		159 Ogden Rd.	Loving	NM	88256	Delivered	Return Receipt - Electronic	12-24-2018
9314869904300054225736	2018-12-20 10:19 AM	81363-0164	Jt. Wall Family Living Trust		1725 CH 11	Clovis	NM	88101	Delivered	Return Receipt - Electronic	12-24-2018
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9314869904300054225712	2018-12-20 10:19 AM	81363-0164	Ann Forehand Langinals		1303 N. Canal #15	Carlsbad	NM	88220	Mailed	Return Receipt - Electronic	
9314869904300054225705	2018-12-20 10:19 AM	81363-0164	Earl Ray (dec'd) & Mary Lynn Forehand		112 East Cherry Lane	Carlsbad	NM	88201	Mailed	Return Receipt - Electronic	
9314869904300054225699	2018-12-20 10:19 AM	81363-0164	Smith Family Trust by Harlen		P.O. Box 333	Socorro	NM	87801	Delivered	Return Receipt - Electronic	12-31-2018
9314869904300054225682	2018-12-20 10:19 AM	81363-0164	Bentley Revocable Trust u/a/d 8-8-2003	& Elizabeth F. Smith by Susan Ogden Bentley, Trustee	P.O. Box 647	Nashville	TN	37215	Delivered	Return Receipt - Electronic	12-29-2018
9314869904300054225675	2018-12-20 10:19 AM	81363-0164	Russell L. Smith		1900 Richard Jones Rd #P-3	Artesia	NM	88221	Delivered	Return Receipt - Electronic	12-26-2018
9314869904300054225668	2018-12-20 10:19 AM	81363-0164	Patricia A. Magby		390 Box 157	Cape Coral	FL	33993	Mailed	Return Receipt - Electronic	
9314869904300054225651	2018-12-20 10:19 AM	81363-0164	James E. Reed	c/o Jodie R. Darden, et al.	3410 NW 9th Terrace	San Angelo	TX	76901	Delivered	Return Receipt - Electronic	12-27-2018
9314869904300054225644	2018-12-20 10:19 AM	81363-0164	Alisa Ogden		901 Madison	Loving	NM	88256	To be Returned	Return Receipt - Electronic	
9314869904300054225637	2018-12-20 10:19 AM	81363-0164	Edgar D. Smith		5353 David Ct, Apt A	Gurnee	IL	60031	Delivered	Return Receipt - Electronic	12-28-2018
9314869904300054225620	2018-12-20 10:19 AM	81363-0164	Devon Energy		333 West Sheridan Ave.	Midland	TX	79701	Delivered	Return Receipt - Electronic	12-26-2018
9314869904300054225613	2018-12-20 10:19 AM	81363-0164	Concho Oil and Gas		600 W. Illinois Avenue	Artesia	NM	88210	Delivered	Return Receipt - Electronic	12-26-2018
9314869904300054225606	2018-12-20 10:19 AM	81363-0164	COG Operating, LLC		2208 W Main St.	Midland	TX	79710	Delivered	Return Receipt - Electronic	12-26-2018
9314869904300054225590	2018-12-20 10:19 AM	81363-0164	Foundation Minerals, LLC		PO BOX 50820	Carlsbad	NM	88220	To be Returned	Return Receipt - Electronic	
9314869904300054225583	2018-12-20 10:19 AM	81363-0164	Bureau of Land Management	Oak Valley Mineral and Land, LP	620 E Greene St.	Tyler	TX	75711	Delivered	Return Receipt - Electronic	12-27-2018
9314869904300054225576	2018-12-20 10:19 AM	81363-0164	Mewbourne Oil Company		PO BOX 7698						

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001272189

MODRALL SPERLING
PO BOX 2168

ALBUQUERQUE NM 87103

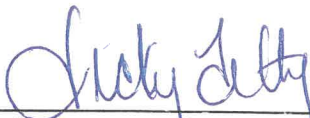
I, a legal clerk of the **Carlsbad Current-Argus**,
a newspaper published daily at the City of
Carlsbad, in said county of Eddy, state of New
Mexico and of general paid circulation in said
county; that the same is a duly qualified
newspaper under the laws of the State wherein
legal notices and advertisements may be
published; that the printed notice attached
~~hereto was published in the regular and entire~~
edition of said newspaper and not in supplement
thereof on the date as follows, to wit:

12/26/18



Legal Clerk

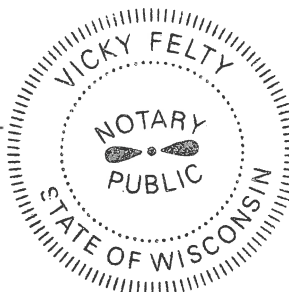
Subscribed and sworn before me this
26th of December 2018.



State of WI, County of Brown
NOTARY PUBLIC

9-19-21

My Commission Expires



CASE No. 16415: Notice to all affected parties, as well as the heirs and devisees of Mewbourne Oil Company; Mewbourne Energy Partners 15-A, LP; Bureau of Land Management; Foundation Minerals, LLC; Mavros Minerals, LLC & Oak Valley Mineral and Land, LP; COG Operating, LLC; Concho Oil and Gas; Devon Energy; Edgar D. Smith; Alisa Ogden; James E. Reed c/o Jodie R. Darden, et al.; Patricia A. Magby; Russell L. Smith; Ross Duncan Properties LLC; Benting Revocable Trust u/a/d 8-8-2003 by Susan Ogden Benting, Trustee; Smith Family Trust by Harlen & Elizabeth F. Smith; Earl Ray (dec'd) & Mary Lynn Forehand; Ann Forehand Langlinais; Karen Ogden Cortese; JL Wall Family Living Trust; Craig William Ogden; Escondido Oil & Gas; Mary Ellen Paul Meece; Sharon Meece; James Davis & Barbara Davis; Marshall & Winston, Inc.; Apache Corporation; ConocoPhillips Company; MRC Permian Company; EOG Resources; and the State of New Mexico of Marathon Oil Permian LLC's application for compulsory pooling, Eddy 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 January 10, 2019, to consider this application. Applicant seeks an order from the Division: pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Fremen 7 WD Fed Com 1H well, to be horizontally drilled. The producing area for this well will be orthodox. 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, and allowing a one year period between when the well is drilled and when the well is completed. Said area is located approximately Nine (9) miles West of Malaga, New Mexico.

CASE No. 16416: Notice to all affected parties, as well as the heirs and devisees of Mewbourne Oil Company; Mewbourne Energy Partners 15-A, LP; Bureau of Land Management; Foundation Minerals, LLC; Mavros Minerals, LLC & Oak Valley Mineral and Land, LP; COG Operating, LLC; Concho Oil and Gas; Devon Energy; Edgar D. Smith; Alisa Ogden; James E. Reed c/o Jodie R. Darden, et al.; Patricia A. Magby; Russell L. Smith; Ross Duncan Properties LLC; Benting Revocable Trust u/a/d 8-8-2003 by Susan Ogden Benting, Trustee; Smith Family Trust by Harlen & Elizabeth F. Smith; Earl Ray (dec'd) & Mary Lynn Forehand; Ann Forehand Langlinais; Karen Ogden Cortese; JL Wall Family Living Trust; Craig William Ogden; Escondido Oil & Gas; Mary Ellen Paul Meece; Sharon Meece; James Davis & Barbara Davis; Marshall & Winston, Inc.; Apache Corporation; ConocoPhillips Company; MRC Permian Company; EOG Resources; and the State of New Mexico of Marathon Oil Permian LLC's application for compulsory pooling, Eddy 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. January 10, 2019, to consider this application. Applicant seeks an order from the Division: pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Fremen 7 WXY Fed Com 2H well, to be horizontally drilled. The producing area for this well will be orthodox. 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, and allowing a one year period between when the well is drilled and when the well is completed. Said area is located approximately Nine (9) miles West of Malaga, New Mexico.

CASE No. 16417: Notice to all affected parties, as well as the heirs and devisees of Mewbourne Oil Company; Mewbourne Energy Partners 15-A, LP; Bureau of Land Management; Foundation Minerals, LLC; Mavros Minerals, LLC & Oak Valley Mineral and Land, LP; COG Operating, LLC; Concho Oil and Gas; Devon Energy; Edgar D. Smith; Alisa Ogden; James E. Reed c/o Jodie R. Darden, et al.; Patricia A. Magby; Russell L. Smith; Ross Duncan Properties LLC; Benting Revocable Trust u/a/d 8-8-2003 by Susan Ogden Benting, Trustee; Smith Family Trust by Harlen & Elizabeth F. Smith; Earl Ray (dec'd) & Mary Lynn Forehand; Ann Forehand Langlinais; Karen Ogden Cortese; JL Wall Family Living Trust; Craig William Ogden; Escondido Oil & Gas; Mary Ellen Paul Meece; Sharon Meece; James Davis & Barbara Davis; Marshall & Winston, Inc.; Apache Corporation; ConocoPhillips Company; MRC Permian Company; EOG Resources; and the State of New Mexico of Marathon Oil Permian LLC's application for compulsory pooling, Eddy 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 January 10, 2019, to consider this application. Applicant seeks an order from the Division: pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 7 and 8, Township 24 South, Range 27 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Fremen 7 WA Fed Com 3H, Fremen 7 WXY Fed Com 5H, and the Fremen 7 WA Fed Com 9H wells, to be horizontally drilled. The producing area for these wells will be orthodox. 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, and allowing a one year period between when the wells are drilled and when the first well is completed. Said area is located approximately Nine (9) miles West of Malaga, New Mexico.

Pub: December 26, 2018

Exhibit 13

Fremen Fed Com WA 9H, WXY 5H, WA 3H, WXY2H and WD 1H

Structure Map – Top of Wolfcamp (SSTVD)

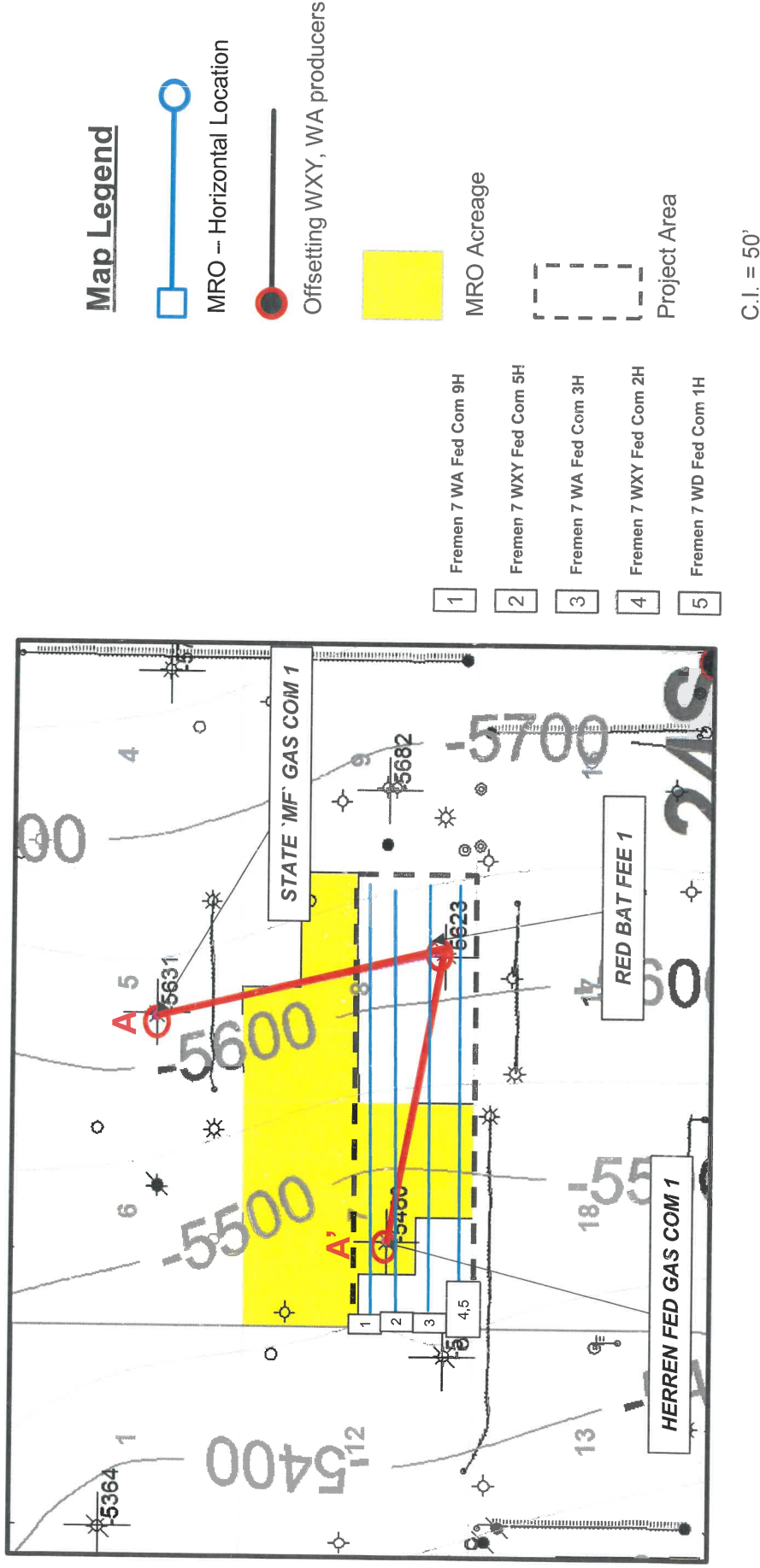
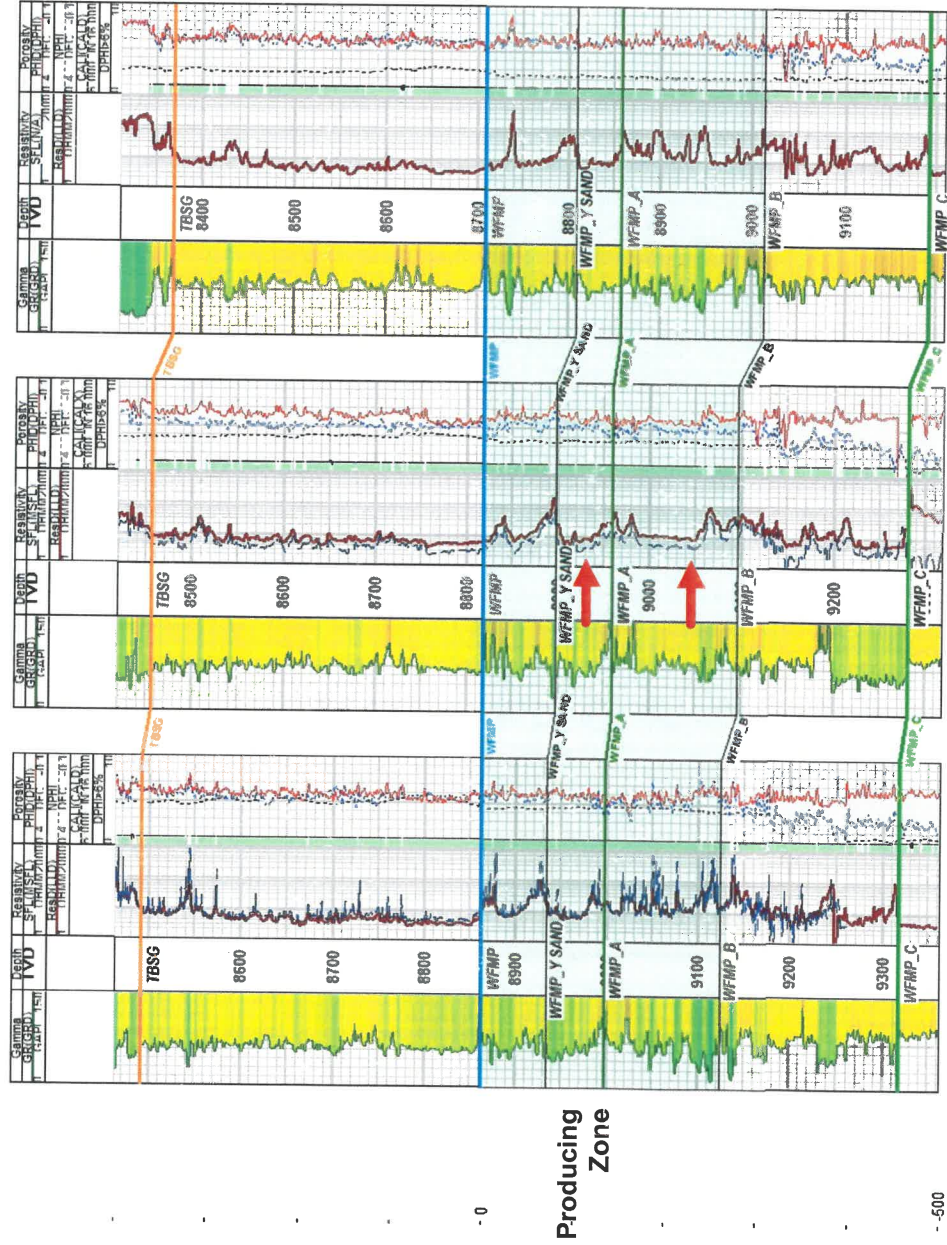


Exhibit 14

Fremen Fed Com WA 9H, WXY 5H, WA 3H, WXY2H and WD 1H

Stratigraphic Cross Section (Top Wolfcamp Datum)



Producing Zone

-500

EXHIBIT

14

tabbles

Exhibit 15

Fremen Fed Com WA 9H, WXY 5H, WA 3H, WXY2H and WD 1H

Gross Interval Isochore – Wolfcamp to Wolfcamp B

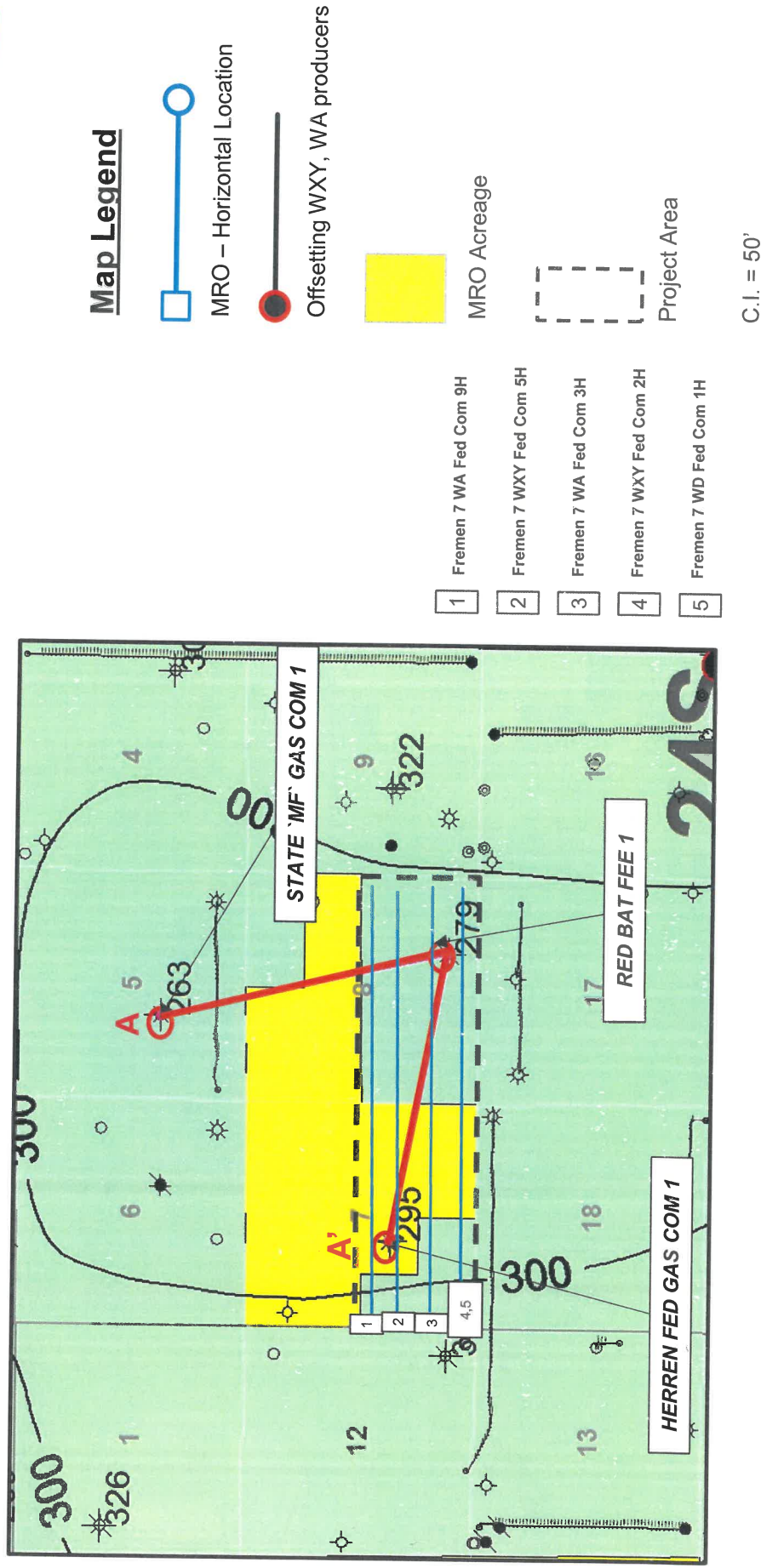


Exhibit 16

Fremen Fed Com WA 9H, WXY 5H, WA 3H, WXY2H and WD 1H

Structure Map – Top of Wolfcamp B (SSTVD)

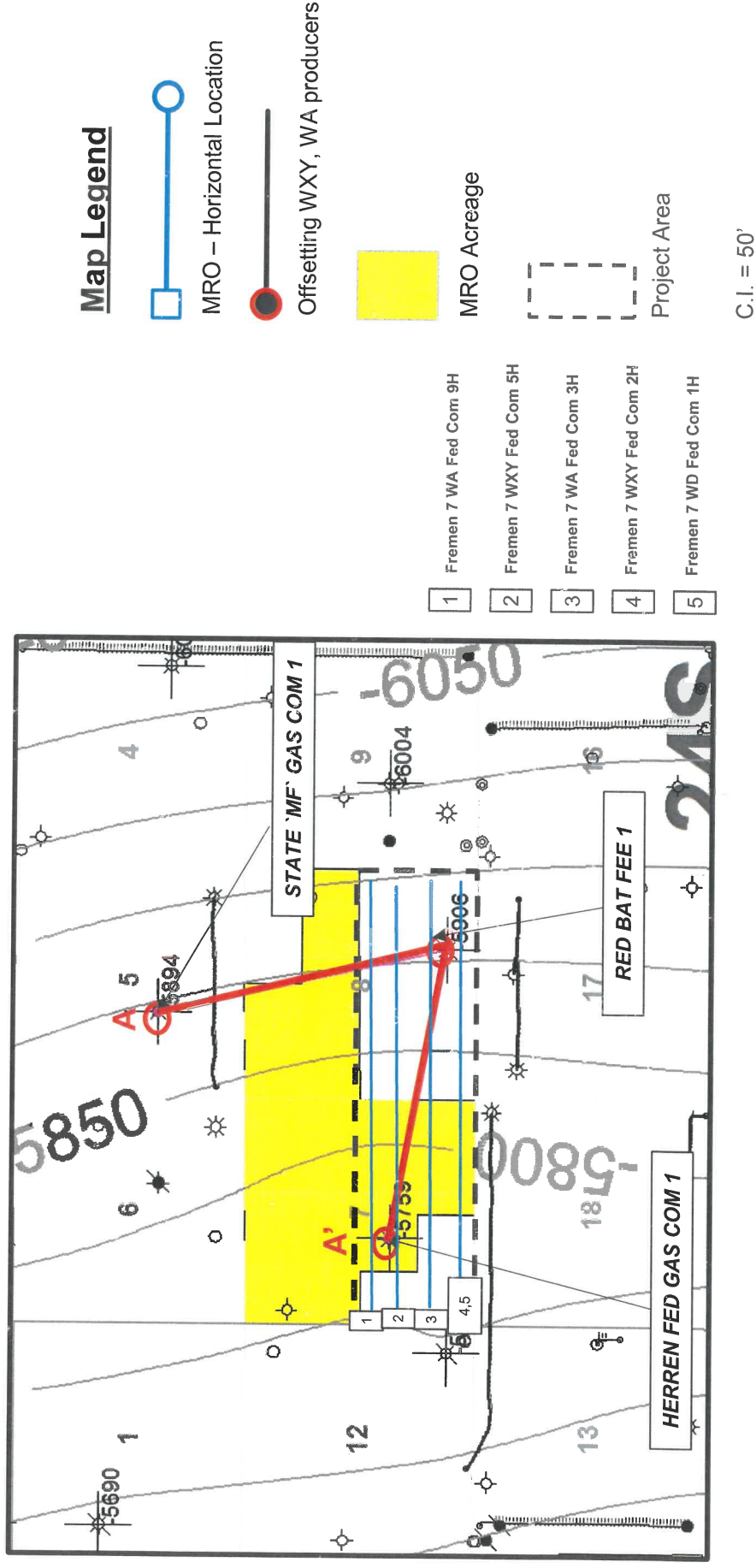
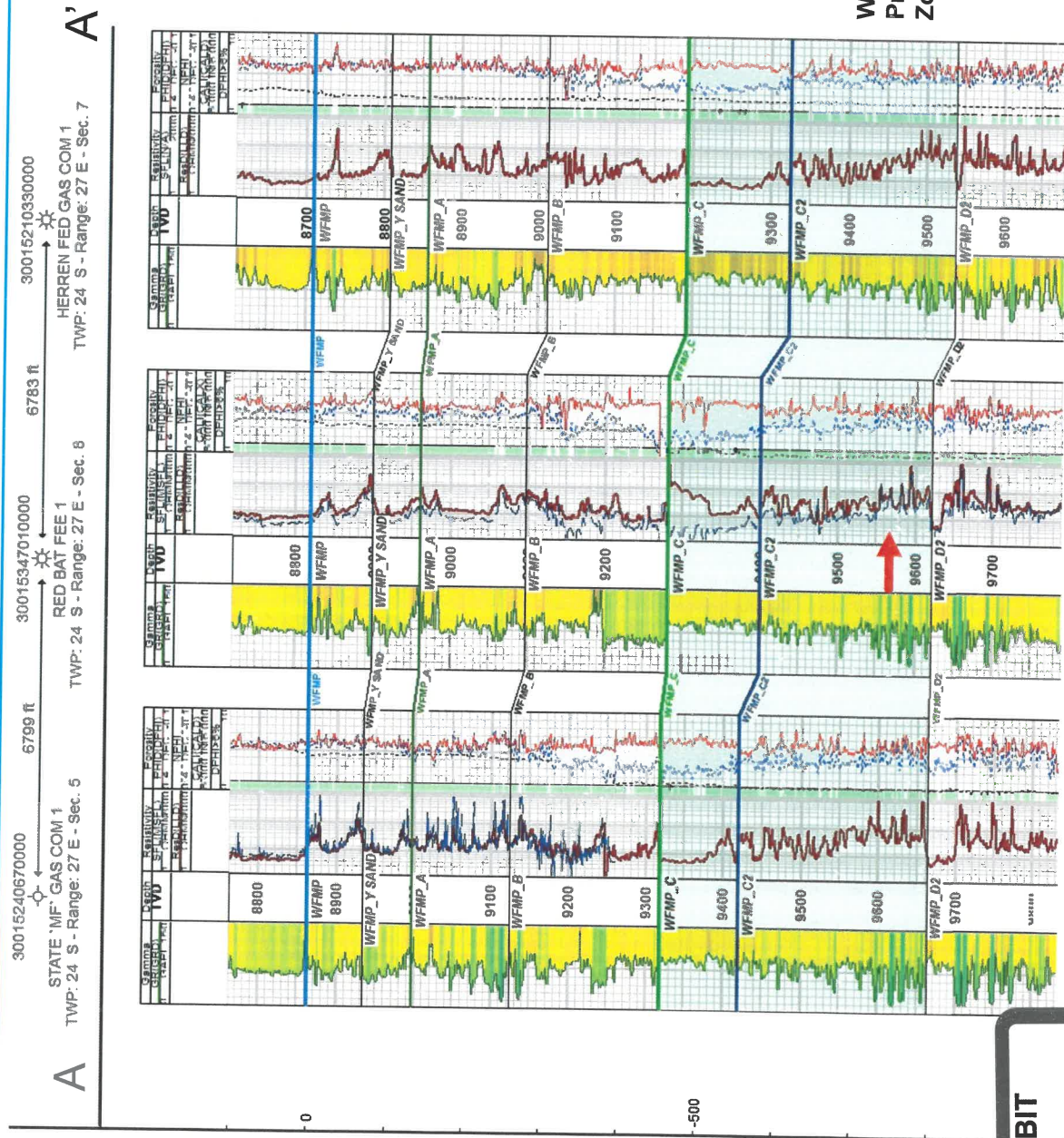


Exhibit 17

Fremen Fed Com WA 9H, WXY 5H, WA 3H, WXY2H and WD 1H

Stratigraphic Cross Section (Top Wolfcamp Datum)



EXHIBIT

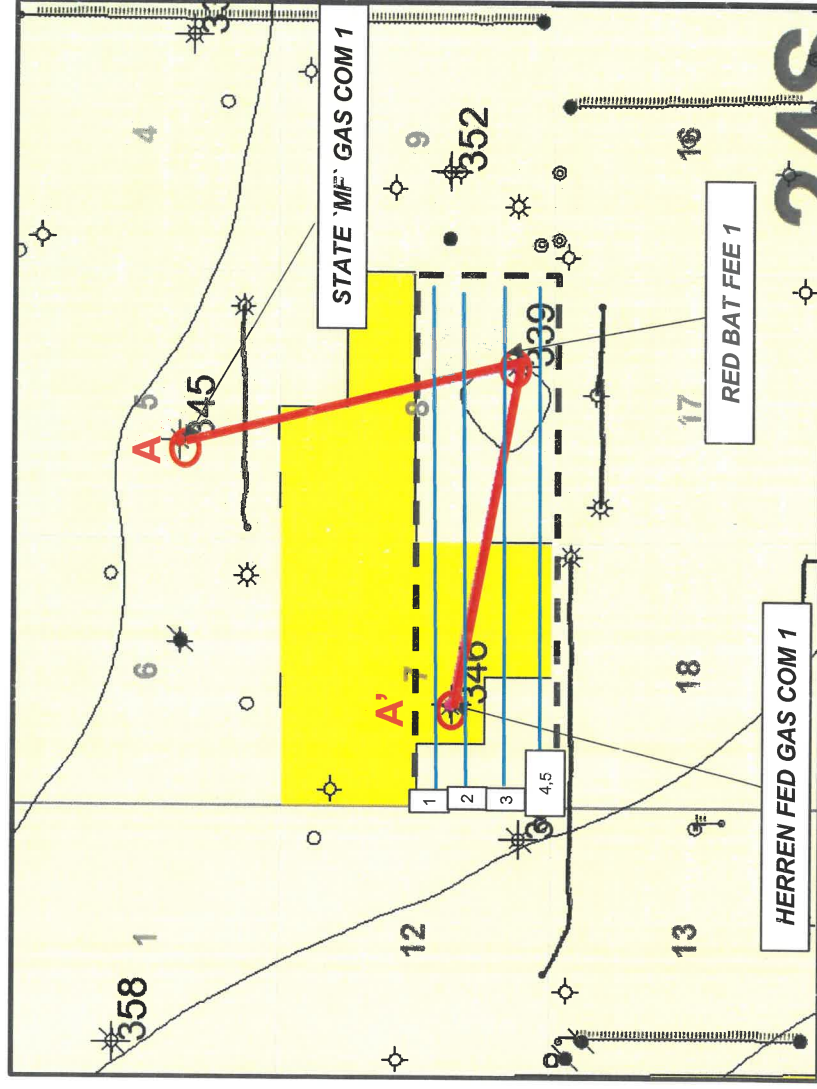
17

tabbles

Exhibit 18

Fremen Fed Com WA 9H, WXY 5H, WA 3H, WXY2H and WD 1H

Gross Interval Isochore – Wolfcamp C to Wolfcamp D2



Map Legend



MRO – Horizontal Location



No Offsetting WD producers



MRO Acreage



Project Area

C.I. = 50'



1 mile

EXHIBIT

18

tables