

Before the Oil Conservation Division Examiner Hearing May 2, 2019

Case No. 20468

*Honey Mustard 22 WXY Fed Com 8H, Honey Mustard 22 WA Fed Com 2H,
Honey Mustard 22 WXY Fed Com 6H, Honey Mustard 22 WA Fed Com 9H,
Honey Mustard 22 WD Fed Com 3H, Honey Mustard 22 WD Fed Com 5H,
Honey Mustard 22 WD Fed Com 11H, Honey Mustard 22 WD Fed Com 10H*



Exhibit A

Exhibit 1

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

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

APR 03 2019 4:09:38

CASE NO. 20468

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 pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Section 22, Township 24 South, Range 28 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 W/2 of Section 22, Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 320-acre, more or less, spacing unit.
3. Marathon plans to drill the **Honey Mustard Federal Com WA 2H, Honey Mustard Federal Com WD 3H, Honey Mustard Federal Com WD 5H, Honey Mustard Federal Com WXY 6H, Honey Mustard Federal Com WXY 8H, Honey Mustard Federal Com WA 9H, Honey Mustard Federal Com WD 10H & Honey Mustard Federal Com WD 11H** wells to a depth sufficient to test the Wolfcamp formation. These wells will be horizontally drilled.



4. These wells will be located within the Purple Sage Wolfcamp Gas Pool, pool code 98220.

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, Marathon requests this application be set for hearing before an Examiner of the Oil Conservation Division May 2, 2019, and 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 W/2 of Section 22, Township 24 South, Range 28 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.

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

By: Deana M. Bennett

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. 20468 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 W/2 of Section 22, Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Honey Mustard Federal Com WA 2H, Honey Mustard Federal Com WD 3H, Honey Mustard Federal Com WD 5H, Honey Mustard Federal Com WXY 6H, Honey Mustard Federal Com WXY 8H, Honey Mustard Federal Com WA 9H, Honey Mustard Federal Com WD 10H & Honey Mustard Federal Com WD 11H** 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 1.5 miles South/Southwest of Malaga, New Mexico.

Exhibit 2

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

¹ API Number		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)	
⁴ Property Code		⁵ Property Name HONEY MUSTARD 22 WA Fed Com			⁶ Well Number 2H
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC			⁹ Elevation 2999'
¹⁰ Surface Location					
UL or lot no. M	Section 22	Township 24S	Range 28E	Lot Idn	Feet from the 479
				North/South line SOUTH	Feet from the 989
				East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. D	Section 22	Township 24S	Range 28E	Lot Idn	Feet from the 330
				North/South line NORTH	Feet from the 993
				East/West line WEST	County EDDY
¹² Dedicated Acres 320.0		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ 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.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 618403.24' / Y: 440522.49' B - X: 621044.41' / Y: 440514.29' C - X: 621117.44' / Y: 435144.26' D - X: 618435.00' / Y: 435137.87'		CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 577219.77' / Y: 440463.98' B - X: 579860.89' / Y: 440455.74' C - X: 579933.80' / Y: 435085.82' D - X: 577251.41' / Y: 435079.46'	
LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 993' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619395.83' / Y: 440189.41' LAT: 32.20990564N / LON: -104.08094625W NAD 27, SPCS NM EAST X: 578212.33' / Y: 440130.89' LAT: 32.20978400N / LON: -104.08045407W		FIRST TAKE POINT 330' FSL 1011' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619441.78' / Y: 435470.27' LAT: 32.19693295N / LON: -104.08083350W NAD 27, SPCS NM EAST X: 578258.19' / Y: 435411.84' LAT: 32.19681115N / LON: -104.08034172W	
KICK OFF POINT 100' FSL 1011' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619444.86' / Y: 435240.27' LAT: 32.19630071N / LON: -104.08082530W NAD 27, SPCS NM EAST X: 578261.26' / Y: 435181.85' LAT: 32.19617888N / LON: -104.08033355W		SURFACE HOLE LOCATION 479' FSL 989' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619417.38' / Y: 435618.92' LAT: 32.19734173N / LON: -104.08091127W NAD 27, SPCS NM EAST X: 578233.78' / Y: 435560.49' LAT: 32.19721993N / LON: -104.08041948W	

17 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 released 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 _____

18 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.

Date of Survey _____

Signature and Seal of Professional Surveyor _____

Certificate Number _____

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⁴ Property Code		⁵ Property Name HONEY MUSTARD 22 WD Fed Com			⁶ Well Number 3H
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC			⁹ Elevation 2999'
¹⁰ Surface Location					
UL or lot no. M	Section 22	Township 24S	Range 28E	Lot Idn	Feet from the 259
				North/South line SOUTH	Feet from the 956
				East/West line WEST	County EDDY
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. D	Section 22	Township 24S	Range 28E	Lot Idn	Feet from the 330
				North/South line NORTH	Feet from the 330
				East/West line WEST	County EDDY
¹² Dedicated Acres 320.0		¹³ Joint or Infill		¹⁴ Consolidation Code	
				¹⁵ 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.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 618403.24' / Y: 440522.49' B - X: 621044.41' / Y: 440514.29' C - X: 621117.44' / Y: 435144.26' D - X: 618435.00' / Y: 435137.87'		CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 577219.77' / Y: 440463.98' B - X: 579860.89' / Y: 440455.74' C - X: 579933.80' / Y: 435085.82' D - X: 577251.41' / Y: 435079.46'	
LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 330' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 618732.79' / Y: 440191.46' LAT: 32.20991556N / LON: -104.08309003W NAD 27, SPCS NM EAST X: 577549.31' / Y: 440132.95' LAT: 32.20979395N / LON: -104.08259776W			
FIRST TAKE POINT 330' FSL 330' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 618760.67' / Y: 435468.64' LAT: 32.19693287N / LON: -104.08303543W NAD 27, SPCS NM EAST X: 577577.09' / Y: 435410.23' LAT: 32.19681110N / LON: -104.08254356W			
KICK OFF POINT 100' FSL 330' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 618763.70' / Y: 435238.65' LAT: 32.19630062N / LON: -104.08302738W NAD 27, SPCS NM EAST X: 577580.11' / Y: 435180.24' LAT: 32.19617884N / LON: -104.08253552W			
SURFACE HOLE LOCATION 259' FSL 956' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619387.37' / Y: 435398.87' LAT: 32.19673706N / LON: -104.08100995W NAD 27, SPCS NM EAST X: 578203.77' / Y: 435340.45' LAT: 32.19661525N / LON: -104.08051817W			
17 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 _____		18 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. Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____	

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⁴ Property Code	⁵ Property Name HONEY MUSTARD 22 WD Fed Com	⁶ Well Number 5H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 2999'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24S	28E		259	SOUTH	986	WEST	EDDY

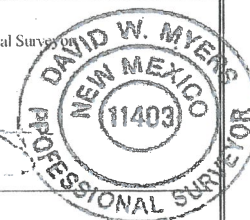
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	24S	28E		330	NORTH	993	WEST	EDDY

¹² Dedicated Acres 320.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

SHEET 1 OF 3 JOB No. R3935_006 REV 2 BM 09/26/2018	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 618403.24' / Y: 440522.49' B - X: 621044.41' / Y: 440514.29' C - X: 621117.44' / Y: 435144.26' D - X: 618435.00' / Y: 435137.87'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 577219.77' / Y: 440463.98' B - X: 579860.89' / Y: 440455.74' C - X: 579933.80' / Y: 435085.82' D - X: 577251.41' / Y: 435079.46'	¹⁷ 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 _____
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name HONEY MUSTARD 22 WXY Fed Com	⁶ Well Number 6H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 2998'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24S	28E		479	SOUTH	1019	WEST	EDDY

¹¹ 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	22	24S	28E		330	NORTH	1653	WEST	EDDY

¹² Dedicated Acres 320.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 618403.24' / Y: 440522.49' B - X: 621044.41' / Y: 440514.29' C - X: 621117.44' / Y: 435144.26' D - X: 618435.00' / Y: 435137.87'		CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 577219.77' / Y: 440463.98' B - X: 579860.89' / Y: 440455.74' C - X: 579933.80' / Y: 435085.82' D - X: 577251.41' / Y: 435079.46'	
SECTION 16 1653'		SECTION 15 993'	
SECTION 21 1671'		SECTION 23 1011'	
SECTION 22 1671'		SECTION 27 1011'	
SECTION 28 479'		SECTION 29 1011'	
LAST TAKE/BHL 330' FNL 1653' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620055.86' / Y: 440187.36' LAT: 32.20989573N / LON: -104.07881221W NAD 27, SPCS NM EAST X: 578872.35' / Y: 440128.83' LAT: 32.20977406N / LON: -104.07832013W		FIRST TAKE POINT 330' FSL 1671' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620101.82' / Y: 435471.84' LAT: 32.19693300N / LON: -104.07869970W NAD 27, SPCS NM EAST X: 578918.21' / Y: 435413.41' LAT: 32.19681117N / LON: -104.07820801W	
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¹⁷ OPERATOR CERTIFICATION
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Signature _____ Date _____

Printed Name _____

E-mail Address _____

¹⁸ SURVEYOR CERTIFICATION
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Date of Survey _____

Signature and Seal of Professional Surveyor _____

Certificate Number _____

SHEET 1 OF 3
JOB No. R3935_003
REV 2 BM 09/26/2018

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⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC			⁹ Elevation 3000'

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24S	28E		479	SOUTH	959	WEST	EDDY

¹¹ 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
D	22	24S	28E		330	NORTH	330	WEST	EDDY

¹² Dedicated Acres 320.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 330' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 618732.79' / Y: 440191.46' LAT: 32.20991556N / LON: -104.08309003W NAD 27, SPCS NM EAST X: 577549.31' / Y: 440132.95' LAT: 32.20979395N / LON: -104.08259776W		FIRST TAKE POINT 330' FSL 330' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 618760.67' / Y: 435468.64' LAT: 32.19693287N / LON: -104.08303543W NAD 27, SPCS NM EAST X: 577577.09' / Y: 435410.23' LAT: 32.19681110N / LON: -104.08254356W	
KICK OFF POINT 100' FSL 330' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 618763.70' / Y: 435238.65' LAT: 32.19630062N / LON: -104.08302738W NAD 27, SPCS NM EAST X: 577580.11' / Y: 435180.24' LAT: 32.19617884N / LON: -104.08253552W		SURFACE HOLE LOCATION 479' FSL 959' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619387.38' / Y: 435618.88' LAT: 32.19734181N / LON: -104.08100825W NAD 27, SPCS NM EAST X: 578203.79' / Y: 435560.45' LAT: 32.19722002N / LON: -104.08051645W	

SHEET 1 OF 3
JOB No. R3935_001
REV 2 BM 09/25/2018

¹⁷ 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 _____

¹⁸ 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.

Date of Survey _____

Signature and Seal of Professional Surveyor

Certificate Number _____

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

¹ API Number	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name HONEY MUSTARD 22 WA Fed Com	⁶ Well Number 9H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 2998'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24S	28E		478	SOUTH	1049	WEST	EDDY

¹¹ 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	22	24S	28E		330	NORTH	2316	WEST	EDDY

¹² Dedicated Acres 320.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 618403.24' / Y: 440522.49' B - X: 621044.41' / Y: 440514.29' C - X: 621117.44' / Y: 435144.26' D - X: 618435.00' / Y: 435137.87' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 577219.77' / Y: 440463.98' B - X: 579860.89' / Y: 440455.74' C - X: 579933.80' / Y: 435085.82' D - X: 577251.41' / Y: 435079.46' LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 2316' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620718.86' / Y: 440185.30' LAT: 32.20988574N / LON: -104.07666856W NAD 27, SPCS NM EAST X: 579535.33' / Y: 440126.76' LAT: 32.20976404N / LON: -104.07617656W FIRST TAKE POINT 330' FSL 2352' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620782.93' / Y: 435473.46' LAT: 32.19693301N / LON: -104.07649777W NAD 27, SPCS NM EAST X: 579599.31' / Y: 435415.02' LAT: 32.19681114N / LON: -104.07600618W KICK OFF POINT 100' FSL 2352' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620786.06' / Y: 435243.47' LAT: 32.19630077N / LON: -104.07648944W NAD 27, SPCS NM EAST X: 579602.43' / Y: 435185.03' LAT: 32.19617888N / LON: -104.07599787W SURFACE HOLE LOCATION 478' FSL 1049' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619477.36' / Y: 435618.86' LAT: 32.19734120N / LON: -104.08071737W NAD 27, SPCS NM EAST X: 578293.76' / Y: 435560.43' LAT: 32.19721940N / LON: -104.08022559W Diagram Labels: SECTION 16, SECTION 15, SECTION 14, SECTION 23, SECTION 21, SECTION 22, SECTION 28, SECTION 27 LAST TAKE/ BHL, FIRST TAKE, SHL, KOP 2316', 330', 1049', 2352', 478', 330', 100' SHEET 1 OF 3 JOB No. R3935_004 REV 2 BM 09/26/2018	¹⁷ 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 _____ ¹⁸ 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. Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____ DAVID W. MYERS NEW MEXICO 11403 PROFESSIONAL SURVEYOR
--	--

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
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District IV
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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

¹ API Number		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)	
⁴ Property Code		⁵ Property Name HONEY MUSTARD 22 WD Fed Com			⁶ Well Number 10H
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC			⁹ Elevation 2998'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24S	28E		259	SOUTH	1046	WEST	EDDY

¹¹ 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	22	24S	28E		330	NORTH	2316	WEST	EDDY

¹² Dedicated Acres 320.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 618403.24' / Y: 440522.49' B - X: 621044.41' / Y: 440514.29' C - X: 621117.44' / Y: 435144.26' D - X: 618435.00' / Y: 435137.87' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 577219.77' / Y: 440463.98' B - X: 579860.89' / Y: 440455.74' C - X: 579933.80' / Y: 435085.82' D - X: 577251.41' / Y: 435079.46' SECTION 16 A SECTION 15 B SECTION 14 SECTION 23 2316' LAST TAKE/ BHL 330' 330' LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 2316' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620718.86' / Y: 440185.30' LAT: 32.20988574N / LON: -104.07668856W NAD 27, SPCS NM EAST X: 579535.33' / Y: 440126.76' LAT: 32.20976404N / LON: -104.07617656W SECTION 21 SECTION 22 1046' 2352' FIRST TAKE SHL KOP 330' 330' 259' 100' 330' SECTION 28 D SECTION 27 C SHEET 1 OF 3 JOB No. R3935_008 REV 2 BM 09/26/2018	¹⁷ 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 _____ ¹⁸ 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. Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____	
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name HONEY MUSTARD 22 WD. Fed Com	⁶ Well Number 11H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 2998'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	24S	28E		259	SOUTH	1016	WEST	EDDY

¹¹ 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	22	24S	28E		330	NORTH	1653	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
320.0			

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.

CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 618403.24' / Y: 440522.49' B - X: 621044.41' / Y: 440514.29' C - X: 621117.44' / Y: 435144.26' D - X: 618435.00' / Y: 435137.87' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 577219.77' / Y: 440463.98' B - X: 579860.89' / Y: 440455.74' C - X: 579933.80' / Y: 435085.82' D - X: 577251.41' / Y: 435079.46' LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 1653' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620055.86' / Y: 440187.36' LAT: 32.20989573N / LON: -104.07881221W NAD 27, SPCS NM EAST X: 578872.35' / Y: 440128.83' LAT: 32.20977406N / LON: -104.07832013W FIRST TAKE POINT 330' FSL 1671' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620101.82' / Y: 435471.84' LAT: 32.19693300N / LON: -104.07869970W NAD 27, SPCS NM EAST X: 578918.21' / Y: 435413.41' LAT: 32.19681117N / LON: -104.07820801W KICK OFF POINT 100' FSL 1671' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 620104.90' / Y: 435241.85' LAT: 32.19630076N / LON: -104.07869151W NAD 27, SPCS NM EAST X: 578921.28' / Y: 435183.42' LAT: 32.19617892N / LON: -104.07819984W SURFACE HOLE LOCATION 259' FSL 1016' FWL, SECTION 22 NAD 83, SPCS NM EAST X: 619447.39' / Y: 435398.88' LAT: 32.19673668N / LON: -104.08081591W NAD 27, SPCS NM EAST X: 578263.79' / Y: 435340.45' LAT: 32.19661487N / LON: -104.08032414W Diagram Labels: SECTION 16, SECTION 15, SECTION 14, SECTION 23, SECTION 21, SECTION 22, SECTION 28, SECTION 27 1653', 993', 1671', 1016', 1671', 1011', 1011', 259', 100', 330', SHL, KOP SHEET 1 OF 3 JOB No. R3935_007 REV 2 BM 09/26/2018	¹⁷ 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 _____ ¹⁸ 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. Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____ DAVID W. MYERS NEW MEXICO PROFESSIONAL SURVEYOR 11403
--	--

Exhibit 3

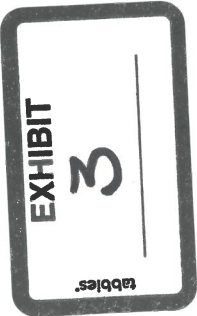
Lease Tract Map

Honey Mustard 22 WXY Fed Com 8H, Honey Mustard 22 WA Fed Com 2H, Honey Mustard 22 WXY Fed Com 6H, Honey Mustard 22 WA Fed Com 9H, Honey Mustard 22 WD Fed Com 3H, Honey Mustard 22 WD Fed Com 5H, Honey Mustard 22 WD Fed Com 11H, Honey Mustard 22 WD Fed Com 10H

W/2 Section 22, T24S-R28E – 320 acres

16	24S 28E	14
21	22	23
24S 28E	27	26
	24S 28E	

- Tract 1: BLM Lease NMNM 0556542
- Tract 2: BLM Lease NMNM 20360
- Tract 3: State Lease V0-0471-0004
- Tract 4: BLM Lease NMNM 20360



Honey Mustard 22 WXY Fed Com 8H, Honey Mustard 22 WA Fed Com 2H, Honey Mustard 22 WXY Fed Com 6H, Honey Mustard 22 WA Fed Com 9H, Honey Mustard 22 WD Fed Com 3H, Honey Mustard 22 WD Fed Com 5H, Honey Mustard 22 WD Fed Com 11H, Honey Mustard 22 WD Fed Com 10H

W/2 Section 22, T24S-R28E—320 acres

Committed Working Interest:
Marathon Oil Permian LLC
Broughton Petroleum, Inc.

63.24062%
61.38287%
1.85775%

Uncommitted Working Interest:
CXA Oil & Gas Holdings, LP
Roy Edward Guinnup
Roy G. Barton, Jr. and wife, Claudia Barton

3.158510%
2.96875%
0.15625%
0.03351%

Uncommitted Working Interest:
CM Resources
WPX Energy Permian, LLC
Mizel Resources
Sisbro Oil & Gas, LLC
S.K. Warren Resources, LLC
MRC Permian Company
Foran Oil Company

33.60087%
7.24375%
6.25000%
5.00000%
5.00000%
4.88875%
3.12500%
2.08338%

**Parties in italics have elected to participate, but have not yet signed Operating Agreement.*



Exhibit 4

Jeffrey Broussard
Landman



Marathon Oil Permian LLC
5555 San Felipe Street
Houston, Texas 77056
Telephone: 713-296-3159
jbroussard1@marathonoil.com

January 15, 2019

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED
7017 2680 0000 3163 0798

MRC Permian Company
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Re: Honey Mustard Federal Com 2H, 3H, 5H, 6H, 8H, 9H, 10H & 11H Well Proposals
W/2 of Section 22, Township 24 South, Range 28 East
Eddy County, New Mexico

Dear MRC Permian Company:

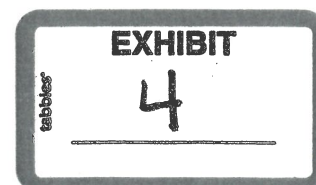
Marathon Oil Permian LLC ("Marathon") proposes the drilling of the following wells located in Section 22, 24S-28E, Eddy, New Mexico, all to be drilled from two surface pad locations.

Pad	Well Name	SHL	BHL	Proration Unit	Target TVD	Est. MD
1	Honey Mustard Federal Com 24-28-22 WXY 8H	860' FWL & 260' FSL	330' FWL & 330' FNL	W/2 of Sec. 22	9,562'	14,454'
1	Honey Mustard Federal Com 24-28-22 WA 2H	890' FWL & 260' FSL	990' FWL & 330' FNL	W/2 of Sec. 22	9,715'	14,590'
1	Honey Mustard Federal Com 24-28-22 WXY 6H	920' FWL & 260' FSL	1650' FWL & 330' FNL	W/2 of Sec. 22	9,562'	14,461'
1	Honey Mustard Federal Com 24-28-22 WA 9H	950' FWL & 260' FSL	2310' FWL & 330' FNL	W/2 of Sec. 22	9,715'	14,677'
2	Honey Mustard Federal Com 24-28-22 WD 3H	860' FWL & 210' FSL	330' FWL & 330' FNL	W/2 of Sec. 22	10,319'	15,210'
2	Honey Mustard Federal Com 24-28-22 WD 5H	890' FWL & 210' FSL	990' FWL & 330' FNL	W/2 of Sec. 22	10,554'	15,429'
2	Honey Mustard Federal Com 24-28-22 WD 11H	920' FWL & 210' FSL	1650' FWL & 330' FNL	W/2 of Sec. 22	10,319'	15,216'
2	Honey Mustard Federal Com 24-28-22 WD 10H	950' FWL & 210' FSL	2310' FWL & 330' FNL	W/2 of Sec. 22	10,554'	15,510'

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.

Marathon proposes drilling the wells under the terms of the 1989 AAPL JOA. Enclosed is a draft of the JOA covering the contract area. The JOA has the following general provisions:

- 100%/300%/300% non-consent penalty
- \$7,000/\$700 drilling and producing rates



- Contract area of W/2 of Section 22, 24S-28E, covering from the top of the Wolfcamp Formation to the base of the Wolfcamp formation

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.

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

This term assignment offer terminates on February 15, 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 phone number or email.

Sincerely,



Jeffrey Broussard
Marathon Oil Permian LLC

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WA 2H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WA 2H.

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 3H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 3H.

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 5H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 5H.

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WXY 6H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WXY 6H.

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WXY 8H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WXY 8H.

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WA 9H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WA 9H.

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 10H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 10H.

_____ MRC Permian Company elects to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 11H.

_____ MRC Permian Company elects NOT to participate in the drilling, completing, and equipping of the Honey Mustard Federal Com 24-28-22 WD 11H.

MRC Permian Company

By: _____

Print Name: _____

Title: _____

Date: _____

Exhibit 5

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

DATE 12/11/2018
 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY HOLLY MURPHY
 ARTIFICIAL LIFT PREPARED BY HOLLY MURPHY

Asset Team	PERMIAN		
Field	PURPLE SAGE; WOI	FORMATION: WOLFCAMP A	
Lease/Facility	Honey Mustard Federal Com 24-28-22 WA 2H		WILDCAT
Location	EDDY COUNTY		DEVELOPMENT
Prospect	MALAGA		X EXPLOITATION
			EXPLORATION
			RECOMPLETION
			WORKOVER

Est Total Depth	14,590	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

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	67,000
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		531,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	453,050
7019040	Directional Drilling Services	148,000
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	55,000
7019140	Mud Fluids & Services	61,300
7012310	Solids Control equipment	31,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	54,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	13,000
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	18,713
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	69,700
7018150	Rig Equipment and Misc.	8,713
7001110	Telecommunications Services	5,000
7001120	Consulting Services	81,898
7001400	Safety and Environmental	27,880
7018120	Rental Buildings (trailers)	13,940
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	147,048
TOTAL DRILLING - INTANGIBLE		\$1,716,741

TOTAL DRILLING COST **\$2,247,741**

COMPLETION - TANGIBLE

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



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

DATE 12/11/2018

Asset Team PERMIAN
Field PURPLE SAGE; WOI FORMATION: WOLFCAMP A
Lease/Facility Honey Mustard Federal Com 24-28-22 WA 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)	210,000
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)	315,000
7019320	Fracturing Services	1,960,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	147,000
7016180	Freight - Truck (haul pipe; drlg & compl)	15,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	35,000
7000030	Contract Labor - general	90,000
7001110	Telecommunications Services	-
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frack Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	234,800
TOTAL COMPLETION - INTANGIBLE		\$3,641,800

TOTAL COMPLETION COST

\$3,656,800

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	\$ 71,250
TOTAL DRILLING COST	\$ 2,247,741
TOTAL COMPLETIONS COST	\$ 3,656,800
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$6,985,021

Participant's Approval

Name of
Company: _____

Signature: _____

Title: _____ Date: _____

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

DATE 12/11/2018
 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY MATT HENSCHEN
 ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT H

Asset Team	PERMIAN		
Field	PURPLE SAGE; WOI	FORMATION: WOLFCAMP D	
Lease/Facility	Honey Mustard Federal Com 24-28-22 WD 3H		
Location	EDDY COUNTY		
Prospect	MALAGA		
		WILDCAT	EXPLORATION
		DEVELOPMENT	RECOMPLETION
		X EXPLOITATION	WORKOVER
Est Total Depth	15,210	Est Drilling Days	
		Est Completion Days	5.5

LOCATION COST - INTANGIBLE

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

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	67,000
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		531,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	476,450
7019040	Directional Drilling Services	157,000
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	45,000
7019140	Mud Fluids & Services	62,200
7012310	Solids Control equipment	33,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rlg)	56,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	
7019150	Mud Logging-geosteering	14,000
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	19,163
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	73,300
7018150	Rlg Equipment and Misc.	9,163
7001110	Telecommunications Services	5,000
7001120	Consulting Services	86,128
7001400	Safety and Environmental	29,320
7018120	Rental Buildings (trailers)	14,660
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	149,792
TOTAL DRILLING - INTANGIBLE		\$1,758,674

TOTAL DRILLING COST

\$2,289,674

COMPLETION - TANGIBLE

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

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

DATE 12/11/2018

Asset Team PERMIAN
Field PURPLE SAGE; WOI FORMATION: WOLFCAMP D
Lease/Facility Honey Mustard Federal Com 24-28-22 WD 3H

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)	210,000
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)	315,000
7019320	Fracturing Services	2,275,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	155,000
7016180	Freight - Truck (haul pipe; drlg & compl)	15,000
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	35,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frack Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	260,000
TOTAL COMPLETION - INTANGIBLE		\$3,990,000
TOTAL COMPLETION COST		\$4,005,000

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	297,080
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	\$ 71,250
TOTAL DRILLING COST	\$ 2,289,674
TOTAL COMPLETIONS COST	\$ 4,005,000
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$7,375,154

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

DATE 12/11/2018
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HI

Asset Team	PERMIAN		
Field	PURPLE SAGE; WOI	FORMATION: WOLFCAMP D	
Lease/Facility	Honey Mustard Federal Com 24-28-22 WD 5H		
Location	EDDY COUNTY		
Prospect	MALAGA		
		WILDCAT	EXPLORATION
		DEVELOPMENT	RECOMPLETION
		X EXPLOITATION	WORKOVER

Est Total Depth	15,429	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

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	67,000
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		531,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	476,450
7019040	Directional Drilling Services	157,000
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	45,000
7019140	Mud Fluids & Services	62,200
7012310	Solids Control equipment	33,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	56,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	14,000
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	19,163
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	73,300
7018150	Rig Equipment and Misc.	9,163
7001110	Telecommunications Services	5,000
7001120	Consulting Services	86,128
7001400	Safety and Environmental	29,320
7018120	Rental Buildings (trailers)	14,660
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	149,792
TOTAL DRILLING - INTANGIBLE		\$1,758,674

TOTAL DRILLING COST	\$2,289,674
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COMPLETION - TANGIBLE

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

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

DATE 12/11/2018

Asset Team PERMIAN
 Field PURPLE SAGE; WOI FORMATION: WOLFCAMP D
 Lease/Facility Honey Mustard Federal Com 24-28-22 WD 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)	210,000
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)	315,000
7019320	Fracturing Services	2,275,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	155,000
7016180	Freight - Truck (haul pipe; drlg & compl)	15,000
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	35,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frack Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trallers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	260,000
TOTAL COMPLETION - INTANGIBLE		\$3,990,000

TOTAL COMPLETION COST

\$4,005,000

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	\$ 71,250
TOTAL DRILLING COST	\$ 2,289,674
TOTAL COMPLETIONS COST	\$ 4,005,000
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$7,375,154

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

DATE 12/11/2018
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HI

Asset Team	PERMIAN			
Field	PURPLE SAGE; WOI	FORMATION: WOLFCAMP XY	WILDCAT	EXPLORATION
Lease/Facility	Honey Mustard Federal Com 24-28-22 WXY 6H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth	14,461	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

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	67,000
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		531,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	453,050
7019040	Directional Drilling Services	148,000
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	55,000
7019140	Mud Fluids & Services	61,300
7012310	Solids Control equipment	31,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	54,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	13,000
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 (include: 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	18,713
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	69,700
7018150	Rig Equipment and Misc.	8,713
7001110	Telecommunications Services	5,000
7001120	Consulting Services	81,898
7001400	Safety and Environmental	27,880
7018120	Rental Buildings (trailers)	13,940
7019310	Coring (sidewalls & analysts)	-
7011010	7% Contingency & Taxes	147,048
TOTAL DRILLING - INTANGIBLE		\$1,716,741

TOTAL DRILLING COST	\$2,247,741
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COMPLETION - TANGIBLE

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

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

DATE 12/11/2018

Asset Team PERMIAN
Field PURPLE SAGE; WO1 FORMATION: WOLFCAMP XY
Lease/Facility Honey Mustard Federal Com 24-28-22 WXY 6H

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)	210,000
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)	315,000
7019320	Fracturing Services	1,960,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	147,000
7016180	Freight - Truck (haul pipe; drlg & compl)	15,000
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	35,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frack Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	234,800
TOTAL COMPLETION - INTANGIBLE		\$3,641,800

TOTAL COMPLETION COST

\$3,656,800

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	\$ 71,250
TOTAL DRILLING COST	\$ 2,247,741
TOTAL COMPLETIONS COST	\$ 3,656,800
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$6,985,021

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

DATE 12/11/2018
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HI

Asset Team	PERMIAN			
Field	PURPLE SAGE; WOI	FORMATION: WOLFCAMP XY	WILDCAT	EXPLORATION
Lease/Facility	Honey Mustard Federal Com 24-28-22 WXY 8H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth	14,454	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	37,500
7001250	Land Broker Fees and Services	33,750

TOTAL LOCATION COST - INTANGIBLE	71,250
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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	67,000
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	531,000
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DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	453,050
7019040	Directional Drilling Services	148,000
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	55,000
7019140	Mud Fluids & Services	61,300
7012310	Solids Control equipment	31,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	54,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	13,000
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	18,713
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	69,700
7018150	Rig Equipment and Misc.	8,713
7001110	Telecommunications Services	5,000
7001120	Consulting Services	81,898
7001400	Safety and Environmental	27,880
7018120	Rental Buildings (trailers)	13,940
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	147,048

TOTAL DRILLING - INTANGIBLE	\$1,716,741
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TOTAL DRILLING COST	\$2,247,741
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COMPLETION - TANGIBLE

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

TOTAL COMPLETION - TANGIBLE	\$15,000
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MARATHON OIL PERMIAN LLC
AUTHORITY FOR EXPENDITURE
DETAIL OF ESTIMATED WELL COSTS

DATE 12/11/2018

Asset Team PERMIAN
Field PURPLE SAGE; WOI FORMATION: WOLFCAMP XY
Lease/Facility Honey Mustard Federal Com 24-28-22 WXY 8H

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)	210,000
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)	315,000
7019320	Fracturing Services	1,960,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	147,000
7016180	Freight - Truck (haul pipe; drlg & compl)	15,000
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	35,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frack Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	234,800
TOTAL COMPLETION - INTANGIBLE		\$3,641,800

TOTAL COMPLETION COST

\$3,656,800

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	\$ 71,250
TOTAL DRILLING COST	\$ 2,247,741
TOTAL COMPLETIONS COST	\$ 3,656,800
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$6,985,021

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

DATE 12/11/2018
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HI

Asset Team	PERMIAN		
Field	PURPLE SAGE; WOI	FORMATION: WOLFCAMP A	WILDCAT
Lease/Facility	Honey Mustard Federal Com 24-28-22 WA 9H		DEVELOPMENT
Location	EDDY COUNTY		X EXPLOITATION
Prospect	MALAGA		

Est Total Depth	14,677	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

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	67,000
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		531,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	453,050
7019040	Directional Drilling Services	148,000
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	55,000
7019140	Mud Fluids & Services	61,300
7012310	Solids Control equipment	31,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	54,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	13,000
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	18,713
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	69,700
7018150	Rig Equipment and Misc.	8,713
7001110	Telecommunications Services	5,000
7001120	Consulting Services	81,898
7001400	Safety and Environmental	27,880
7018120	Rental Buildings (trailers)	13,940
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	147,048
TOTAL DRILLING - INTANGIBLE		\$1,716,741

TOTAL DRILLING COST	\$2,247,741
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COMPLETION - TANGIBLE

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

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

DATE 12/11/2018

Asset Team PERMIAN
Field PURPLE SAGE; WO1 FORMATION: WOLFCAMP A
Lease/Facility Honey Mustard Federal Com 24-28-22 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)	210,000
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)	315,000
7019320	Fracturing Services	1,960,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	147,000
7016180	Freight - Truck (haul pipe; drlg & compl)	15,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. BH, BHA)	-
7000030	Contract Labor - general	35,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frack Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	234,800
TOTAL COMPLETION - INTANGIBLE		\$3,641,800

TOTAL COMPLETION COST

\$3,656,800

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	-
7013350	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	\$ 71,250
TOTAL DRILLING COST	\$ 2,247,741
TOTAL COMPLETIONS COST	\$ 3,656,800
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$6,985,021

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

DATE 12/11/2018
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HI

Asset Team	PERMIAN	FORMATION: WOLFCAMP D	WILDCAT	EXPLORATION
Field	PURPLE SAGE; WOI		DEVELOPMENT	RECOMPLETION
Lease/Facility	Honey Mustard Federal Com 24-28-22 WD 10H		X EXPLOITATION	WORKOVER
Location	EDDY COUNTY			
Prospect	MALAGA			

Est Total Depth	15,510	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

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	67,000
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		531,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	481,650
7019040	Directional Drilling Services	159,000
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	45,000
7019140	Mud Fluids & Services	62,400
7012310	Solids Control equipment	33,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rlg)	57,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	14,000
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	19,263
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	74,100
7018150	Rig Equipment and Misc.	9,263
7001110	Telecommunications Services	5,000
7001120	Consulting Services	87,068
7001400	Safety and Environmental	29,640
7018120	Rental Buildings (trailers)	14,820
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	150,549
TOTAL DRILLING - INTANGIBLE		\$1,770,252

TOTAL DRILLING COST	\$2,301,252
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COMPLETION - TANGIBLE

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

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

DATE 12/11/2018

Asset Team PERMIAN
 Field PURPLE SAGE; WOI FORMATION: WOLFCAMP D
 Lease/Facility Honey Mustard Federal Com 24-28-22 WD 10H

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)	210,000
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)	315,000
7019320	Fracturing Services	2,275,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	155,000
7016180	Freight - Truck (haul pipe; drlg & compl)	15,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bt, BHA)	-
7000030	Contract Labor - general	35,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frack Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	260,000
TOTAL COMPLETION - INTANGIBLE		\$3,990,000

TOTAL COMPLETION COST

\$4,005,000

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	\$ 71,250
TOTAL DRILLING COST	\$ 2,301,252
TOTAL COMPLETIONS COST	\$ 4,005,000
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$7,386,732

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

DATE 12/11/2018
 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY MATT HENSCHEN
 ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HI

Asset Team	PERMIAN			
Field	PURPLE SAGE; WOJ	FORMATION: WOLFCAMP D	WILDCAT	EXPLORATION
Lease/Facility	Honey Mustard Federal Com 24-28-22 WD 11H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth	15,216	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

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	67,000
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		591,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	481,650
7019040	Directional Drilling Services	159,000
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	45,000
7019140	Mud Fluids & Services	62,400
7012310	Solids Control equipment	33,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	57,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	14,000
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)	80,000
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	19,263
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	74,100
7018150	Rig Equipment and Misc.	9,263
7001110	Telecommunications Services	5,000
7001120	Consulting Services	87,068
7001400	Safety and Environmental	29,640
7018120	Rental Buildings (trailers)	14,820
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	150,549
TOTAL DRILLING - INTANGIBLE		\$1,770,252

TOTAL DRILLING COST

\$2,301,252

COMPLETION - TANGIBLE

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

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

DATE 12/11/2018

Asset Team PERMIAN
Field PURPLE SAGE; WOI FORMATION: WOLFCAMP D
Lease/Facility Honey Mustard Federal Com 24-28-22 WD 11H

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)	210,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drig)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	315,000
7019320	Fracturing Services	2,275,000
7019330	Perforating	175,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	155,000
7016180	Freight - Truck (haul pipe; drig & compl)	15,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drig; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	35,000
7001110	Telecommunications Services	90,000
7001400	Safety and Environmental	-
7001120	Consulting Services	60,000
7018150	Zipper Manifold	150,000
7019300	Frac Stack Rentals	45,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	135,000
7018120	Rental Buildings (trailers)	15,000
7000030	Contract Labor - Pumping (pump-down pumps)	30,000
7011010	8% Contingency & Taxes	260,000
TOTAL COMPLETION - INTANGIBLE		\$3,990,000
TOTAL COMPLETION COST		\$4,005,000

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
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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	\$ 71,250
TOTAL DRILLING COST	\$ 2,301,252
TOTAL COMPLETIONS COST	\$ 4,005,000
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$7,386,732

Exhibit 6

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

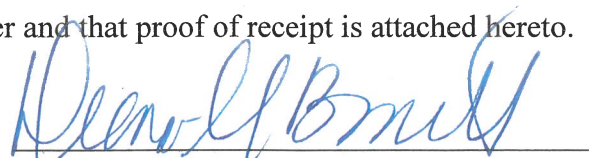
APPLICATION OF MARATHON OIL PERMIAN LLC FOR COMPUSLORY
POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 20468
(HONEY MUSTARD)

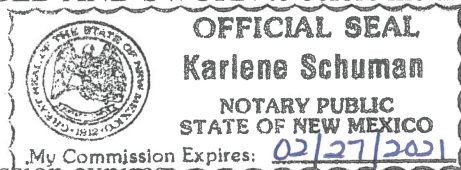
AFFIDAVIT

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

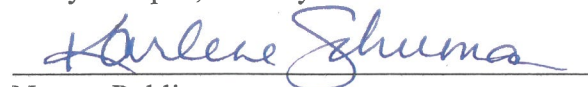
Deana M. Bennett, attorney in fact and authorized representative of Marathon Oil Permian LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application was sent under a notice letter and that proof of receipt is attached hereto.


Deana M. Bennett

SUBSCRIBED AND SWORN to before me this 29th day of April, 2019 by Deana M. Bennett.



My commission expires: _____


Notary Public



Jane Schuman
dral Spierling Roehl Harris & Sisk P.A.
Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
04/12/2019

Firm Mailing Book ID: 165065

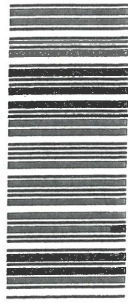
81363-
0124

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0058 0281 42	Broughton Petroleum, Inc. Attn: Lois Krennek P.O. Box 1389 Sealy TX 77474	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
2	9314 8699 0430 0058 0281 59	CM Resources, LLC 303 W. Wall St., #700 Midland TX 79701	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
3	9314 8699 0430 0058 0281 66	CXA Oil & Gas Holdings, L.P. 1302 West Avenue Austin TX 78701	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
4	9314 8699 0430 0058 0281 73	Foran Oil Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
5	9314 8699 0430 0058 0281 80	Hochstim Marital Trust 3717 Maplewood Ave. Dallas TX 75205	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
6	9314 8699 0430 0058 0281 97	Huggins Trustee No. 1 2407 River Oaks Blvd J.M. Beique	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
7	9314 8699 0430 0058 0282 03	5216 Treemont Mizel Resources, a Trust 4350 S. Monaco St., 5th Floor Denver CO 80237	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
8	9314 8699 0430 0058 0282 10	MRC Permian Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
9	9314 8699 0430 0058 0282 27	Roy Edward Guinnup 2812-A Wayside Ave. Fort Worth TX 75240	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
10	9314 8699 0430 0058 0282 34	Roy G. Barton, Jr. and wife, Claudia Barton 1919 N. Turner St. Hobbs NM 88240	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
11	9314 8699 0430 0058 0282 41	S K Warren Resources, LLC P.O. Box 470372 Tulsa OK 74147	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
12	9314 8699 0430 0058 0282 58	Sandra Richards Adams 232303 Verona View Lane Katy TX 77493	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
13	9314 8699 0430 0058 0282 65	Sisbro Oil & Gas, LLC 4350 S. Monaco St., 5th Floor Denver CO 80237	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
14	9314 8699 0430 0058 0282 72	WPX Energy Permian, LLC Attn: Kim Dent P.O. Box 3102 MO37 Tulsa OK 74101	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
15	9314 8699 0430 0058 0282 89		\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice

riene Schuman
drall Sperling Roehl Harris & Sisk P.A.
Fourth Street, Suite 1000
buquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
04/12/2019



Firm Mailing Book ID: 165065

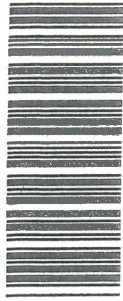
Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
16	9314 8699 0430 0058 0282 96	Roy G. Barton Jr. P.O. Box 978 Hobbs NM 88240	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
17	9314 8699 0430 0058 0283 02	Bishop-Windham Family Limited Partnership P.O. Box 2698 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
18	9314 8699 0430 0058 0283 19	Doroil Corporation 1637 Prairie Mark Lane Houston TX 77077	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
19	9314 8699 0430 0058 0283 26	Donald E. Hockaday III, Trustee of the Dorothy L. Hockaday Trust 11607 Noblewood Crest Lane Houston TX 77082	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
20	9314 8699 0430 0058 0283 33	Arlen L. Edgar 414 West Texas, Suite 208 Midland TX 79701	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
21	9314 8699 0430 0058 0283 40	G. K. Partners 550 West Texas, suite 600 Midland TX 79701	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
22	9314 8699 0430 0058 0283 57	Griffin Petroleum Company 2800 North Big Spring Street Midland TX 79705	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
23	9314 8699 0430 0058 0283 64	Christa Hinojosa 1443 Scenic Ridge Houston TX 77043	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
24	9314 8699 0430 0058 0283 71	Isramco Resources, LLC 2425 West Loop South, Suite 810 Houston TX 77027	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
25	9314 8699 0430 0058 0283 88	Scott T. Peterson and wife Billie Peterson P.O. Box 1112 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
26	9314 8699 0430 0058 0283 95	Carol Shumate P.O. 2473 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
27	9314 8699 0430 0058 0284 01	Gene Shumate P.O. 2473 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
28	9314 8699 0430 0058 0284 18	Williamson Oil & Gas Company, LLC 303 Veteran's Airpark Lane, Suite 1100 Midland TX 79705	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
29	9314 8699 0430 0058 0284 25	Jerune Allen 245 Nicklaus Drive Rio Rancho NM 87124	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
30	9314 8699 0430 0058 0284 32	Robert S. Lee P.O. Box 10523 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice



Jilene Schuman
Drall Sperling Roehl Harris & Sisk P.A.
Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
04/12/2019



Firm Mailing Book ID: 165065

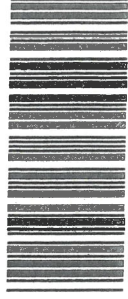
Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
31	9314 8699 0430 0058 0284 49	Dolores McCall P.O. Box 931 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
32	9314 8699 0430 0058 0284 56	M. D. Abel. Co. P.O. Box 949 Lampasas TX 76550	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
33	9314 8699 0430 0058 0284 63	Robert N. Enfield Revocable Trust P.O. Box 2431 Santa Fe NM 87504	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
34	9314 8699 0430 0058 0284 70	Howard A Rubin, Inc. 623 Camino Rancheros Santa Fe NM 87505	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
35	9314 8699 0430 0058 0284 87	Neva Blackstock 4373 Heathford Court Jacksonville FL 32224	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
36	9314 8699 0430 0058 0284 94	Art Gibson 1500 West Kansas Midland TX 79701	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
37	9314 8699 0430 0058 0285 00	David Hanger and Rita Hanger, Trustees of David Hanger and Rita Hanger Trust 440 Independence Parkway, apt 3102 Plano TX 75075	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
38	9314 8699 0430 0058 0285 17	Richard Roda 275 Swan Retreat Road Big Fork MT 59911	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
39	9314 8699 0430 0058 0285 24	Grover D. Smith 13714 Chelwood Place Houston TX 77069	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
40	9314 8699 0430 0058 0285 31	Whilden Trust #1 910 Louisiana Houston TX 77002	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
41	9314 8699 0430 0058 0285 48	Transatlantic Petroleum Corporation 41 Schermerhorn Street Brooklyn NY 11201	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
42	9314 8699 0430 0058 0285 55	Calumet Oil Company 2455 East 51st Street, Suite 101 Tulsa OK 74105	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
43	9314 8699 0430 0058 0285 62	Bryan Bell Family LLC 213 20th Street New Orleans LA 70124	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
44	9314 8699 0430 0058 0285 79	Rubie Crosby Bell Family LLC 213 20th Street New Orleans LA 70124	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
45	9314 8699 0430 0058 0285 86	Madison M. Hinkle P.O. Box 2292 Roswell NM 88202	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice



lene Schuman
 Irall Sperling Roehl Harris & Sisk P.A.
 Fourth Street, Suite 1000
 Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
 04/12/2019



Firm Mailing Book ID: 165065

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
46	9314 8699 0430 0058 0285 93	Rolla R. Hinkle III P.O. Box 2292 Roswell NM 88202	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
47	9314 8699 0430 0058 0286 09	Foran Oil Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
48	9314 8699 0430 0058 0286 16	AGS Oil & Gas Holdings, Inc. 10 Inverness Drive East, Suite 155 Englewood CO 80112	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
49	9314 8699 0430 0058 0286 23	AGS Oil & Gas Holdings II, Inc. 10 Inverness Drive East, Suite 155 Englewood CO 80112	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
50	9314 8699 0430 0058 0286 30	Warren American Oil Company, LLC P.O. Box 470372 Tulsa OK 74147	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
51	9314 8699 0430 0058 0286 47	Rialto Production Company P.O. Box 981028 Houston TX 77098	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
52	9314 8699 0430 0058 0286 54	Woodson Oil & Gas, LP 301 Commerce Street, Suite 1830 Fortworth TX 76102	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
53	9314 8699 0430 0058 0286 61	Bahnhof Holdings LP P.O. Box 10505 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
54	9314 8699 0430 0058 0286 78	Dinero Energy Corp PO Box 10505 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
55	9314 8699 0430 0058 0286 85	Sydtran, LP PO Box 940549 Houston TX 77094	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
56	9314 8699 0430 0058 0286 92	Russell J. Ramsland, Jr. PO Box 10505 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
57	9314 8699 0430 0058 0287 08	KCK Resources, Inc. 2507 Dartmouth Drive Midland TX 79705	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
58	9314 8699 0430 0058 0287 15	Jane B. Ramsland Oil & Gas Partnership LTD PO Box 10505 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
59	9314 8699 0430 0058 0287 22	Justin T. Crum PO Box 3598 Roswell NM 88202	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
60	9314 8699 0430 0058 0287 39	Bo Digby 1414 Shafter Ave Odessa TX 79761	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice



Jene Schuman
 4444 Sperling Roehl Harris & Sisk P.A.
 Fourth Street, Suite 1000
 Albuquerque NM 87102

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Type of Mailing: CERTIFIED MAIL
 04/12/2019



Firm Mailing Book ID: 165065

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
61	9314 8699 0430 0058 0287 46	Wagner & Cochran PO Box 101265 Fort Worth TX 76185	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
62	9314 8699 0430 0058 0287 53	Duer Wagner, Jr. PO Box 101265 Fort Worth TX 76185	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
63	9314 8699 0430 0058 0287 60	Zunis Energy, LLC 15 East 5th St., Suite 330 Tulsa OK 74103	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
64	9314 8699 0430 0058 0287 77	Susannah D. Adelson, Trustee of the James Adelson & Family 2015 Trusts 15 East 5th St., Suite 330 Tulsa OK 74103	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
65	9314 8699 0430 0058 0287 84	Santa Elena Minerals IV, LP P.O. Box 2063 Midland TX 79702	\$1.15	\$3.50	\$1.60	\$0.00	81363-Honey M Notice
			Totals:	\$227.50	\$104.00	\$0.00	
			Grand Total:				\$406.25

Number of Pieces Sent by Sender	Total Number of Pieces Received at Post Office	Postmaster: Name of receiving employee	Dated:
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APR 12 2019

USPS Article Number	Date Created	Name 1	Name 2	Address	City	State	Zip	Mailing Status	Service Options	Mail Delivery Date
9314869904300058028784	2019-04-12 8:12 AM	Santa Elena Minerals IV, LP		P.O. Box 2063	Midland	TX	79702	Delivered	Return Receipt - Electronic, Certified Mail	04-29-2019
9314869904300058028777	2019-04-12 8:12 AM	Susanmah D. Adelson, Trustee of the James Adelson	& Family 2015 Trusts	15 East 5th St., Suite 330	Tulsa	OK	74103	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028760	2019-04-12 8:12 AM	Zunis Esquivel, LLC		15 East 5th St., Suite 330	Tulsa	OK	74103	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
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9314869904300058028685	2019-04-12 8:12 AM	Sydran, LP		PO Box 940549	Houston	TX	77094	UnDelivered	Return Receipt - Electronic, Certified Mail	04-23-2019
9314869904300058028678	2019-04-12 8:12 AM	Dinero Energy Corp		PO Box 10505	Midland	TX	79702	Mailed	Return Receipt - Electronic, Certified Mail	04-23-2019
9314869904300058028661	2019-04-12 8:12 AM	Bahnhof Holdings LP		P.O. Box 10505	Midland	TX	79702	Mailed	Return Receipt - Electronic, Certified Mail	04-23-2019
9314869904300058028654	2019-04-12 8:12 AM	Woodson Oil & Gas, LP		301 Commerce Street, Suite 1830	Fort Worth	TX	76102	Returned to Sender	Return Receipt - Electronic, Certified Mail	04-23-2019
9314869904300058028647	2019-04-12 8:12 AM	Rialto Production Company		P.O. Box 981028	Houston	TX	77098	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028630	2019-04-12 8:12 AM	Warren American Oil Company, LLC		P.O. Box 470372	Tulsa	OK	74147	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028623	2019-04-12 8:12 AM	AGS Oil & Gas Holdings II, Inc.		10 Inverness Drive East, Suite 155	Englewood	CO	80112	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028616	2019-04-12 8:12 AM	AGS Oil & Gas Holdings, Inc.		10 Inverness Drive East, Suite 155	Englewood	CO	80112	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028609	2019-04-12 8:12 AM	Foran Oil Company		5400 LBJ Freeway, Suite 1500	Dallas	TX	75240	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
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9314869904300058028562	2019-04-12 8:12 AM	Bryan Bell Family LLC		213 20th Street	New Orleans	LA	70124	Delivered	Return Receipt - Electronic, Certified Mail	04-17-2019
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9314869904300058028517	2019-04-12 8:12 AM	Richard Road		275 Swan Retreat Road	Big Fork	MT	59911	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
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9314869904300058028487	2019-04-12 8:12 AM	Neva Blackstock		4373 Heathford Court	Jacksonville	FL	32224	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
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9314869904300058028449	2019-04-12 8:12 AM	Dolores McCall		P.O. Box 931	Midland	TX	79702	Mailed	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028432	2019-04-12 8:12 AM	Robert S. Lee		P.O. Box 10523	Midland	TX	79702	Mailed	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028425	2019-04-12 8:12 AM	Jerrime Allen		245 Nicklaus Drive	Rio Rancho	NM	87124	Lost	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028418	2019-04-12 8:12 AM	Williamson Oil & Gas Company, LLC		303 Veteran's Airpark Lane, Suite 1100	Midland	TX	79702	Mailed	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028401	2019-04-12 8:12 AM	Gene Shumate		P.O. 2473	Midland	TX	79702	Mailed	Return Receipt - Electronic, Certified Mail	04-22-2019
9314869904300058028395	2019-04-12 8:12 AM	Scott T. Peterson and wife Billie Peterson		P.O. Box 1112	Midland	TX	79702	Delivered	Return Receipt - Electronic, Certified Mail	04-17-2019
9314869904300058028388	2019-04-12 8:12 AM	Isramco Resources, LLC		2425 West Loop South, Suite 810	Houston	TX	77027	Delivered	Return Receipt - Electronic, Certified Mail	04-18-2019
9314869904300058028371	2019-04-12 8:12 AM	Christa Hinojosa		1443 Scenic Ridge	Houston	TX	77043	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028357	2019-04-12 8:12 AM	Griffin Petroleum Company		2800 North Big Spring Street	Midland	TX	79705	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028340	2019-04-12 8:12 AM	G. K. Partners		550 West Texas, suite 600	Midland	TX	79701	Mailed	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028333	2019-04-12 8:12 AM	Arlen L. Edgar		414 West Texas, Suite 208	Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028326	2019-04-12 8:12 AM	Donald E. Hockaday III, Trustee of the Dorothy L	Hockaday Trust	11607 Noblewood Crest Lane	Houston	TX	77082	Delivered	Return Receipt - Electronic, Certified Mail	04-19-2019
9314869904300058028319	2019-04-12 8:12 AM	Dorcil Corporation		1637 Prairie Mark Lane	Houston	TX	77077	Mailed	Return Receipt - Electronic, Certified Mail	04-15-2019
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9314869904300058028289	2019-04-12 8:12 AM	WPA Energy Permian, LLC	Attn: Kim Dent	4350 S. Monaco St., 5th Floor	Tulsa	OK	74101	Mailed	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028272	2019-04-12 8:12 AM	Sibbro Oil & Gas, LLC		232303 Verona View Lane	Denver	CO	80237	UnDelivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028265	2019-04-12 8:12 AM	Sandra Richards Adams		P.O. Box 470372	Katy	TX	77493	Mailed	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028258	2019-04-12 8:12 AM	S K Warren Resources, LLC		1919 N. Turner St.	Tulsa	OK	74147	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
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9314869904300058028166	2019-04-12 8:12 AM	CXA Oil & Gas Holdings, L.P.		1302 West Avenue	Dallas	TX	75240	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028159	2019-04-12 8:12 AM	CM Resources, LLC		303 W. Wall St., #700	Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058028142	2019-04-12 8:12 AM	Broughton Petroleum, Inc.	Attn: Lois Krenek	P.O. Box 1389	Sealy	TX	77474	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019

CARLSBAD CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001283510

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PO BOX 2168

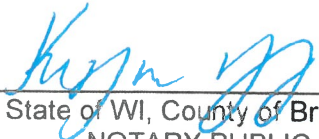
ALBUQUERQUE NM 87103

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:

04/18/19

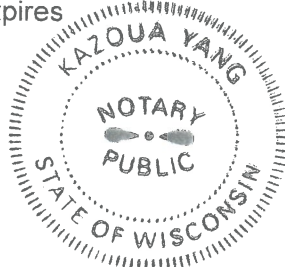

Legal Clerk

Subscribed and sworn before me this
18th of April 2019.


State of WI, County of Brown
NOTARY PUBLIC

11/9/22
My Commission Expires

Ad#:0001283510
P O : Honey Mustard
of Affidavits :0.00



CASE No. 20468: Notice to all affected parties, as well as the heirs and devisees of BROUGHTON PETROLEUM, INC. ATTN: LOIS KRENEKCM RESOURCES, LLC; CXA OIL & GAS HOLDINGS, L.P.; FORAN OIL COMPANY; HOCHSTIM MARITAL TRUST; HUGGINS TRUSTEENO. 1; J.M. BEIQUE; MIZEL RESOURCES, A TRUST; MRC PERMIAN COMPANY; ROY EDWARD GUINNUP; ROY G. BARTON, JR. AND WIFE, CLAUDIA BARTON; S K WARREN RESOURCES, LLC; SAUNDRARICHARDS ADAMS; SISBRO OIL & GAS, LLC; WPX ENERGY PERMIAN, LLC ATTN: KIM DENT; ROY G. BARTON JR.; BISHOP-WINDHAM FAMILY LIMITED PARTNERSHIP; DOROIL CORPORATION; DONALD E. HOCKADAY III, TRUSTEE OF THE DOROTHY L. HOCKADAY TRUST; ARLEN L. EDGAR; G. K. PARTNERS; GRIFFIN PETROLEUM COMPANY; CHRISTAHINO JOSA; SRAMCORE RESOURCES, LLC; SCOTT T. PETERSON AND WIFE BILLIE PETERSON; CAROL SHUMATE; GENE SHUMATE; WILLIAMSON OIL & GAS COMPANY, LLC; JERUNE ALLEN; ROBERT S. LEE; DOLORES MCCALL; M. D. ABEL CO.; ROBERT N. ENFIELD REVOCABLE TRUST; HOWARD A RUBIN, INC.; NEVA BLACKSTOCK ART GIBSON; DAVID HANGER AND RITA HANGER TRUSTEES OF DAVID HANGER AND RITA HANGER TRUST; RICHARD RODA; GROVER D. SMITH; WHILDEN TRUST #1; TRANSATLANTIC PETROLEUM CORPORATION; CALUMET OIL COMPANY; BRYAN BELL FAMILY LLC; RUBIE CROSBY BELL FAMILY LLC; MADISON M. HINKLE; ROLLAR. HINKLE III; AGS OIL & GAS HOLDINGS, INC.; AGS OIL & GAS HOLDINGS II, INC.; WARREN AMERICAN OIL COMPANY, LLC RIALTO PRODUCTION COMPANY; WOODSON OIL & GAS, LP; BAHNHOF HOLDINGS LP; DINERO ENERGY CORP; SYDTRAN, LP; RUSSELL J. RAMSLAND, JR.; KCK RESOURCES INC.; JANE B. RAMSLAND OIL & GAS PARTNERSHIP LTD; JUSTIN T. CRUM; BO DIGBY WAGNER & COCHRAN; DUER WAGNER, JR. ZUNIS ENERGY, LLC; SUSANNAHD. ADELSON TRUSTEE OF THE JAMES ADELSON FAMILY 2015 TRUSTS; SANTA ELENA MINERALS IV, LP 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 May 2, 2019. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the W/2 of Section 22, Township 24 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Honey Mustard Federal Com WA 2H, Honey Mustard Federal Com WD 3H, Honey Mustard Federal Com WD 5H, Honey Mustard Federal Com WXY 6H, Honey Mustard Federal Com WXY 8H, Honey Mustard Federal Com WA 9H, Honey Mustard Federal Com WD 10H & Honey Mustard Federal Com WD 11H.

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 1.5 miles South/Southwest of Malaga, New Mexico.

Exhibit B

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

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

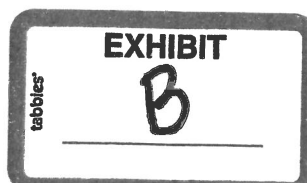
CASE NO. 20468
(HONEY MUSTARD)

AFFIDAVIT

STATE OF TEXAS)
) ss.
COUNTY OF HARRIS)

Matt Baker, being duly sworn, deposes and states:

1. I am over the age of 18, I am a geologist for Marathon Oil Permian LLC, and have personal knowledge of the matters stated herein. I have been qualified by the Oil Conservation Division ("Division") as an expert petroleum geologist.
2. **Exhibit 7** is a structure map of the top of the Wolfcamp. The proposed project area is identified by a black-dashed box. The proposed horizontal locations are identified by colored lines, and the proposed wells are numbered 1-8.
3. Exhibit 7 shows that the structure dips to the East.
4. I have prepared separate exhibits for the proposed Upper Wolfcamp wells and Lower Wolfcamp wells.
5. **Exhibit 8** identifies four vertical wells in the vicinity of the proposed Upper Wolfcamp wells, which are the WA and WXY wells, and has a line of cross-section running from A to A'.



6. **Exhibit 9** is a stratigraphic cross section hung on the top of the Wolfcamp, also for the Upper Wolfcamp wells. The well logs on the cross-section give a representative sample of the Wolfcamp formation in the area. The target zones for the wells are the Wolfcamp Y Sand and the Wolfcamp A, identified by the words "Producing Zone" and the shaded area across the cross section, along with a red arrow. The Wolfcamp Y Sand thickness is consistent across the unit. The Wolfcamp A has some thickness variability from North to South.

7. **Exhibit 10** is a Gross Interval Isochore of the Wolfcamp to Wolfcamp B. The formation is relatively uniform across the proposed well unit.

8. **Exhibit 11** identifies four vertical wells in the vicinity of the proposed Lower Wolfcamp wells, which are the WD wells, and has a line of cross-section running from A to A'.

9. **Exhibit 12** is a stratigraphic cross section showing the Wolfcamp D2 datum, also for the Lower Wolfcamp wells. The well logs on the cross-section give a representative sample of the Wolfcamp formation in the area. The target zones for the wells are identified by the words "Producing Zone" and the shaded area across the cross section, along with a red arrow. The Wolfcamp C2 interval thickens from North to South. The Wolfcamp D2 thickness is relatively consistent from across the unit.

10. **Exhibit 13** is a Gross Interval Isochore of the Wolfcamp C2 to D3. The gross formation thickness increases from North to South.

11. I conclude from the maps that:

- a. The horizontal spacing unit is justified from a geologic standpoint.
- b. There are no structural impediments or faulting that will interfere with horizontal development.

c. Each quarter quarter section in the unit will contribute more or less equally to production.

12. The preferred well orientation in this area is either North/South or East/West.

This is because the SH_{max} is $\sim 45-50^\circ$ from North within this unit.

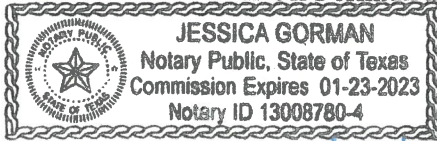
13. Exhibits 7-13 were prepared by my or under my supervision or compiled from company business records.

14. The granting of this application is in the interests of conservation and the prevention of waste.

[Signature page follows]

M. P. B.
Matt Baker

SUBSCRIBED AND SWORN to before me this 30th day of April, 2019 by Matt Baker,
on behalf of Marathon Oil Permian LLC.



Jessica Gorman
Notary Public

My commission expires: 1/23/2023

Exhibit 7

Honey Mustard 22 Fed Com Unit

Structure Map – Top of Wolfcamp (SSTVD)

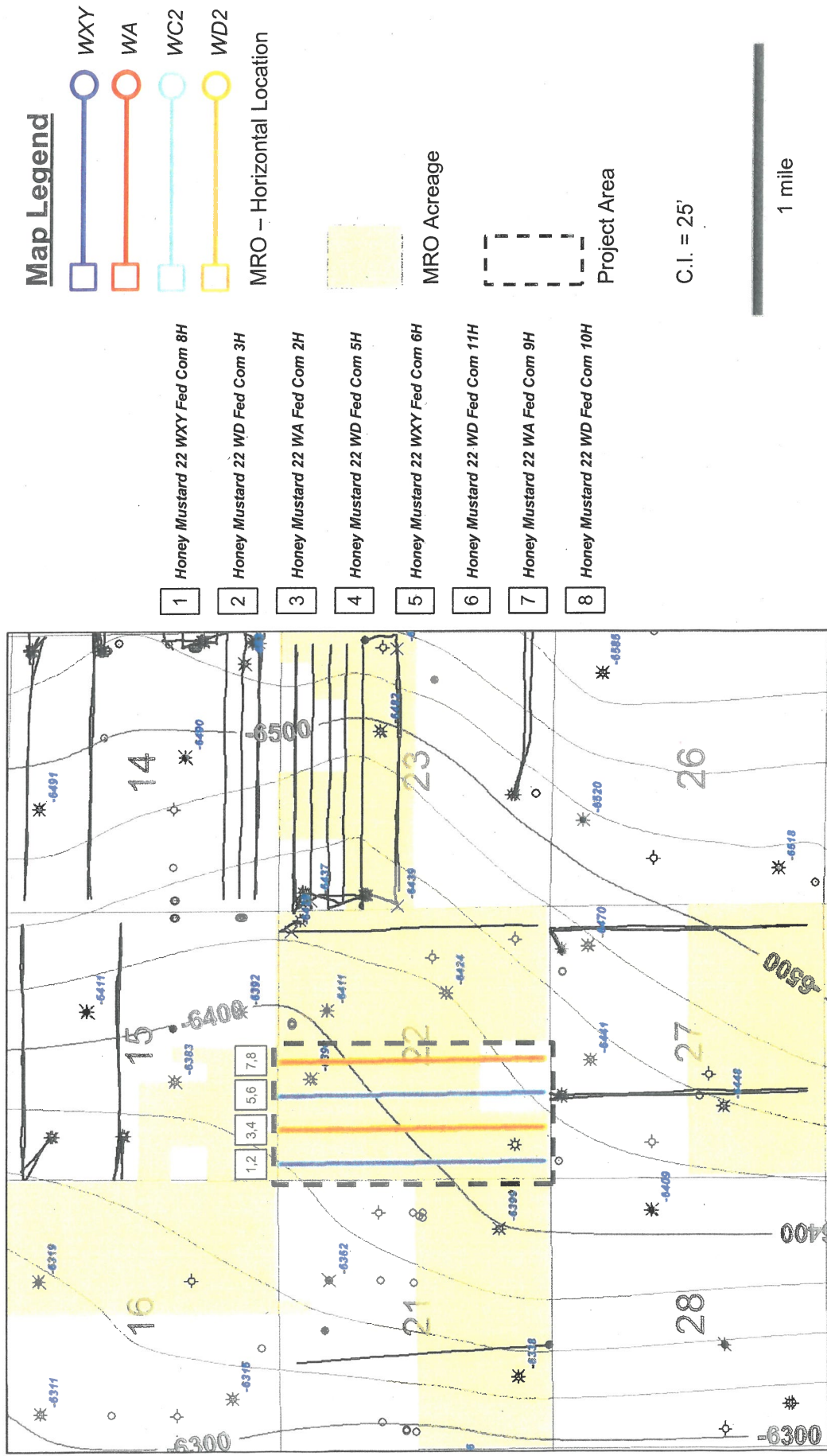
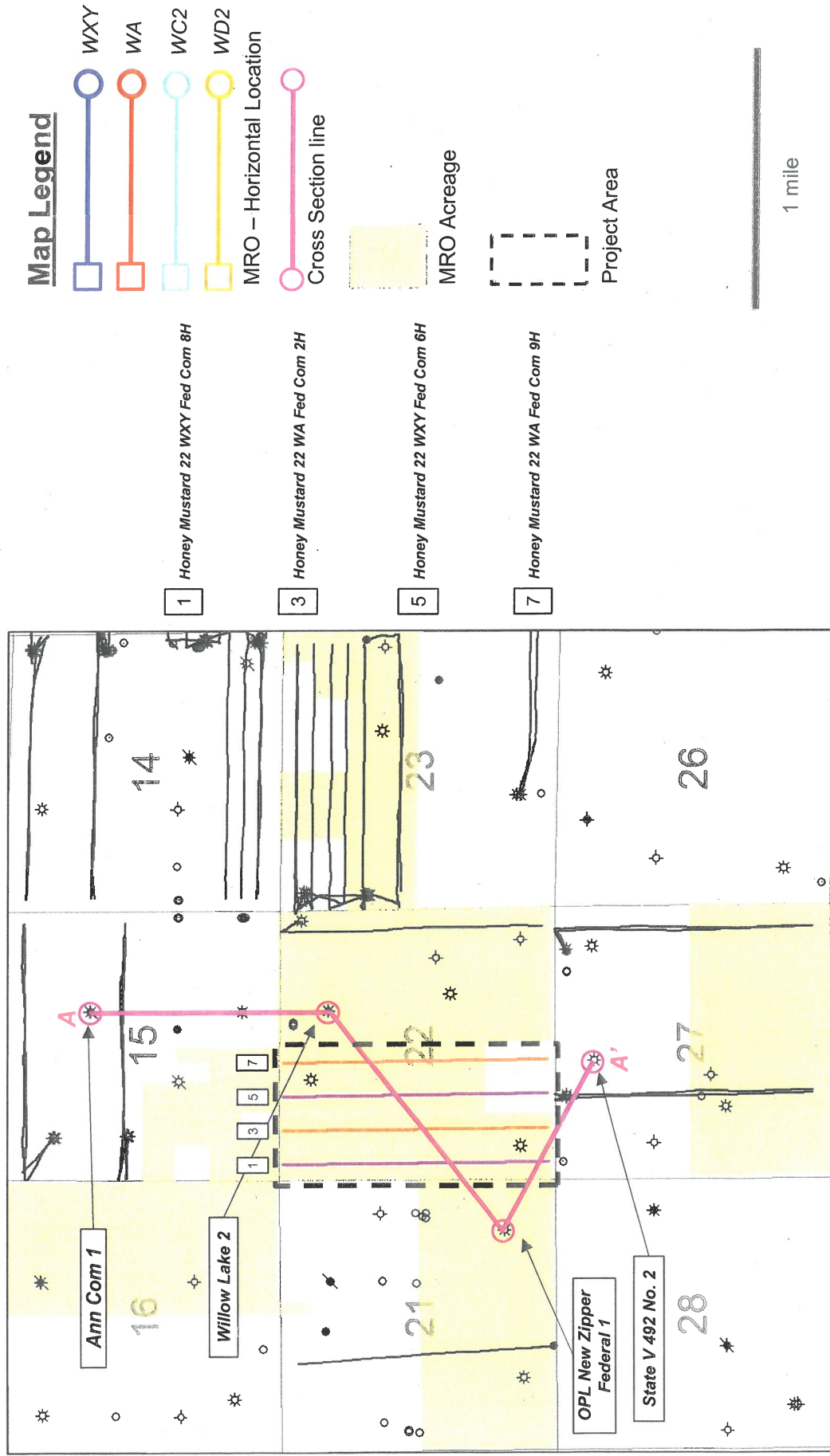


Exhibit 8

Honey Mustard 22 Fed Com Unit

Reference Map for Cross Section – Upper Wolfcamp Wells



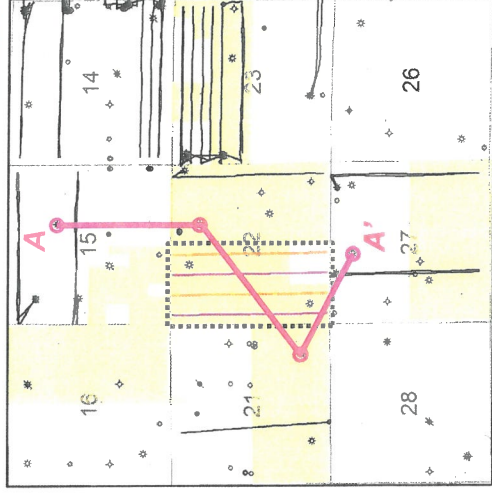
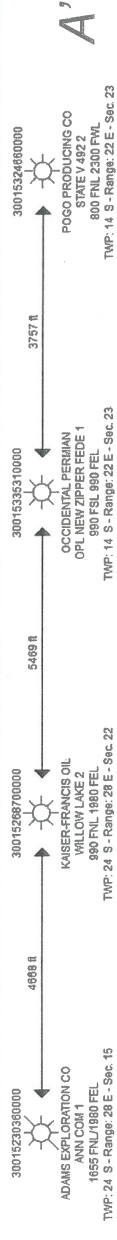
EXHIBIT

8

Exhibit 9

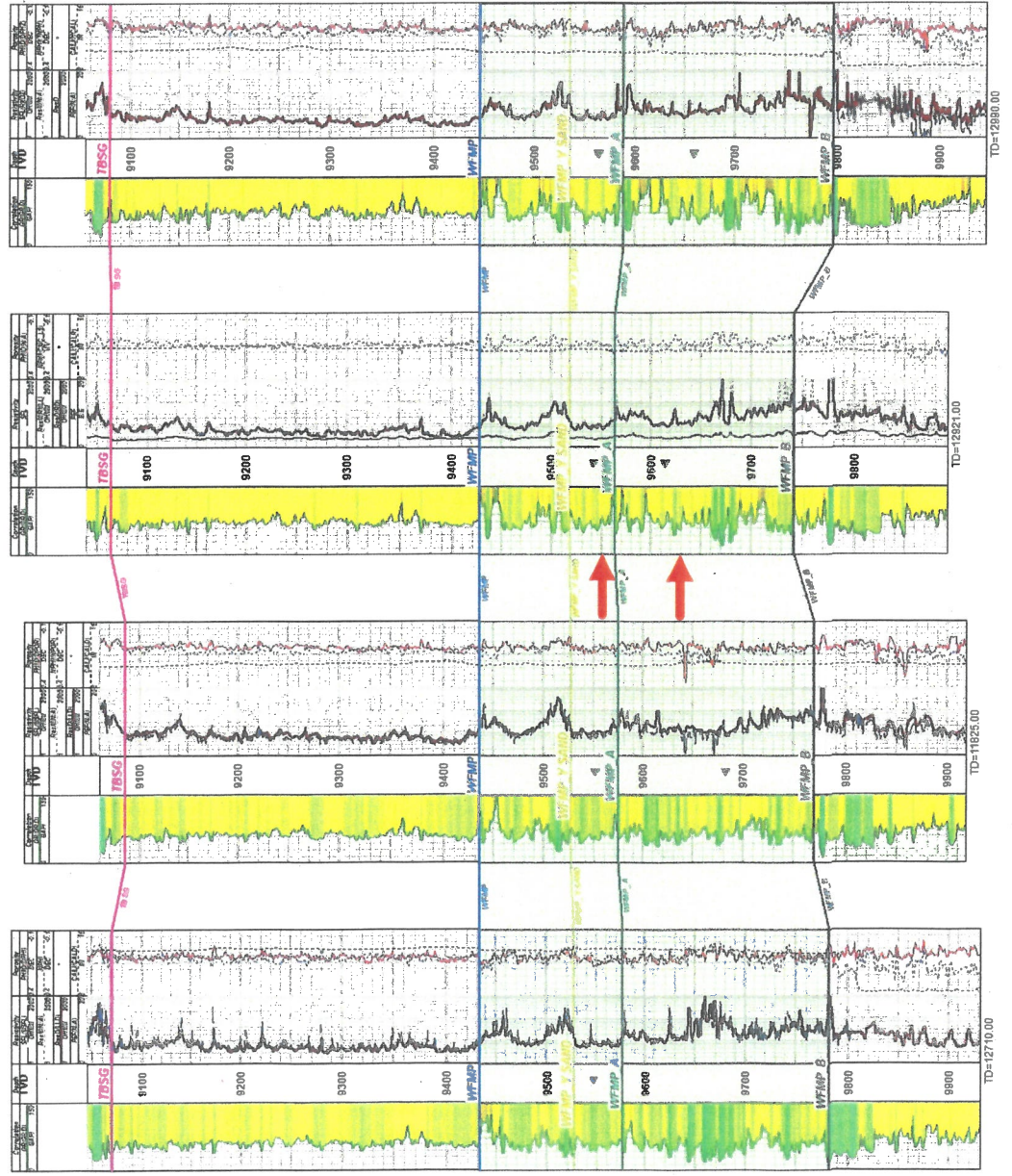
Honey Mustard 22 Fed Com Unit

Stratigraphic Cross Section (Top Wolfcamp Datum)



Wolfcamp Y-Sand thickness consistent across unit

Some thickness variability in the Wolfcamp A from North to South



Producing Zone

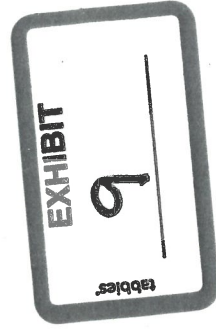


Exhibit 10

Honey Mustard 22 Fed Com Unit

Gross Interval Isochore – Wolfcamp to Wolfcamp B

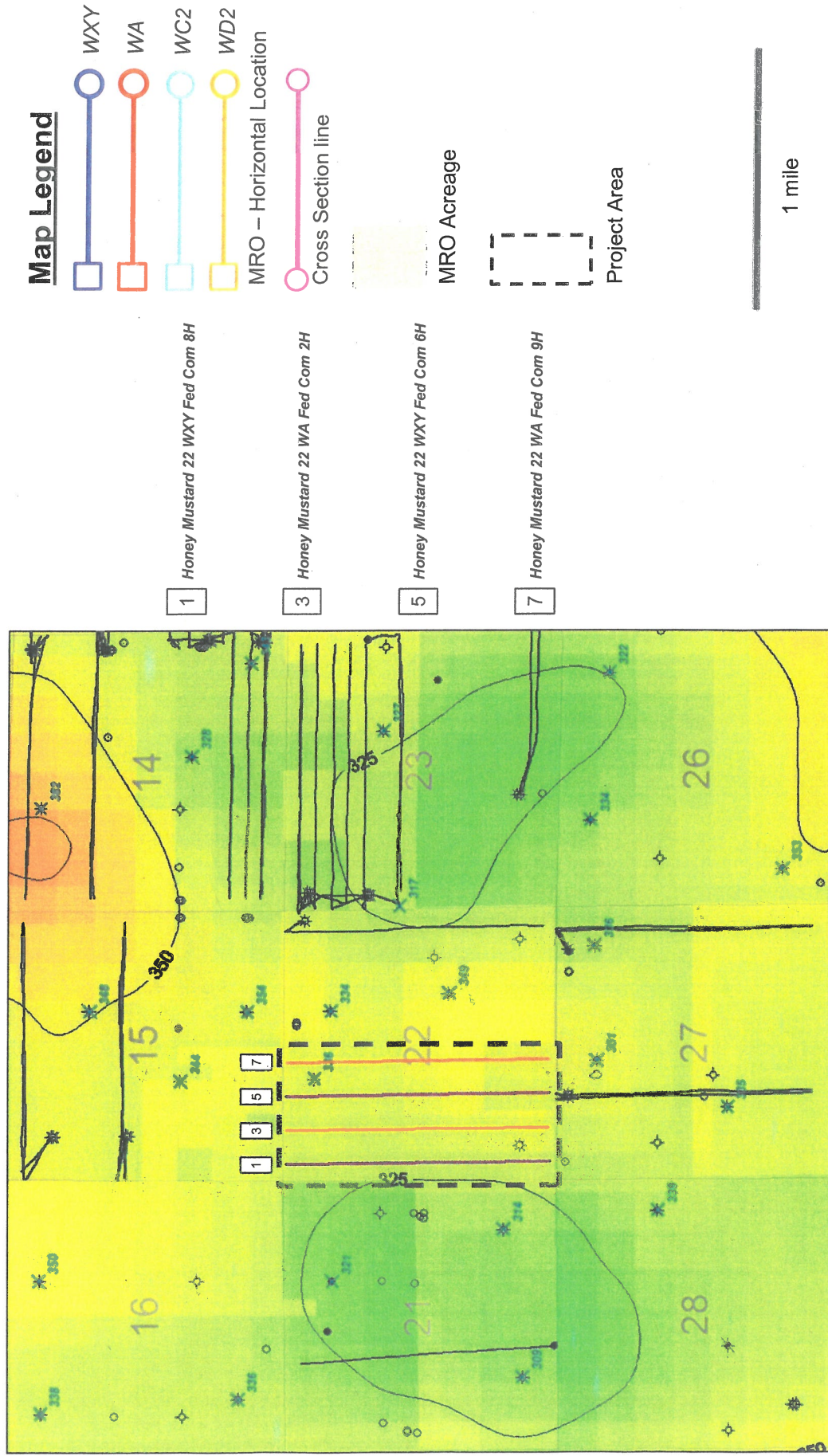


Exhibit 11

Honey Mustard 22 Fed Com Unit

Reference Map for Cross Section – Lower Wolfcamp Wells

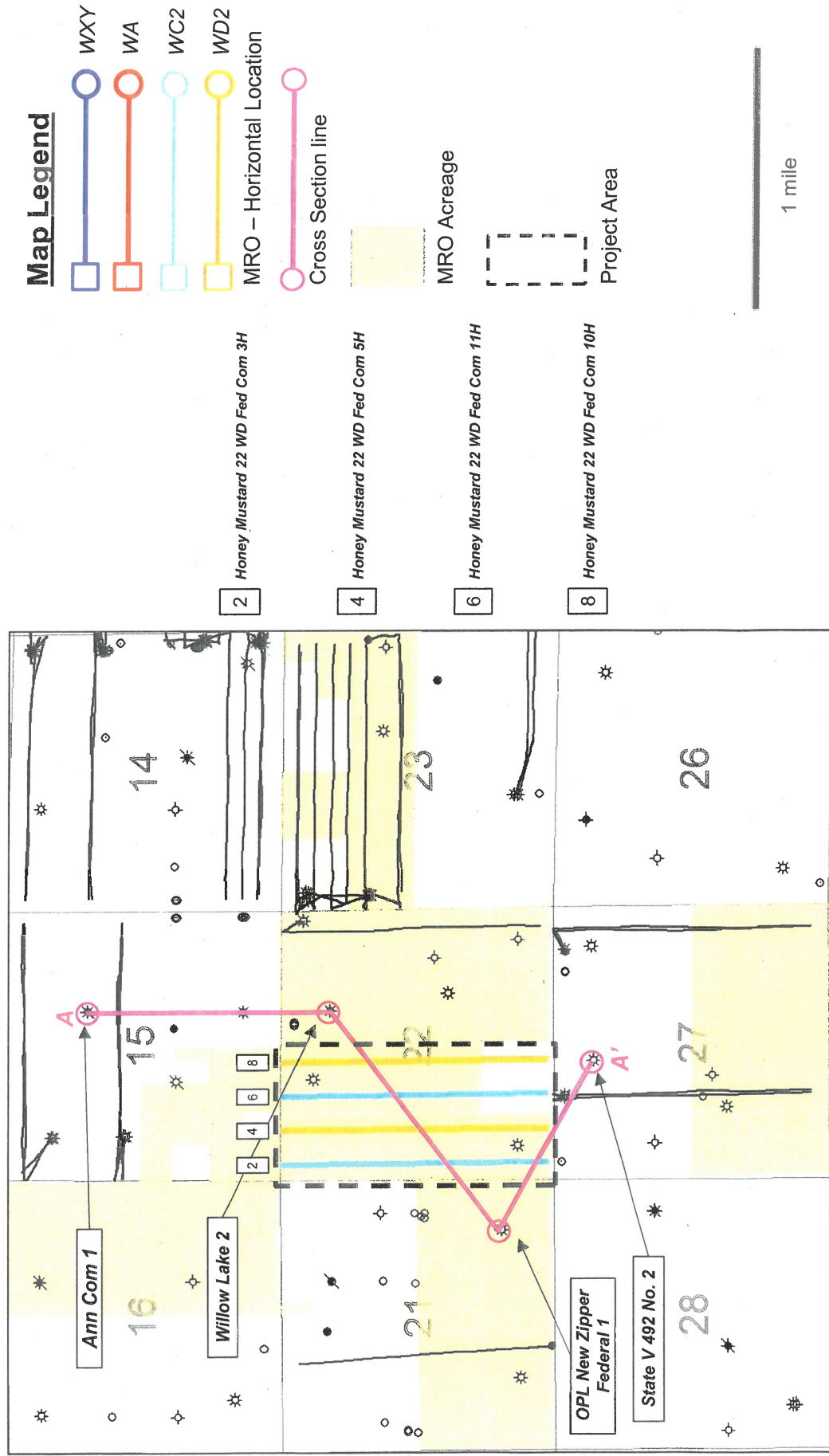
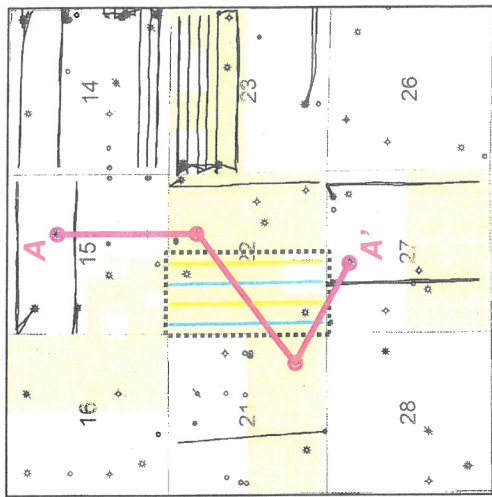
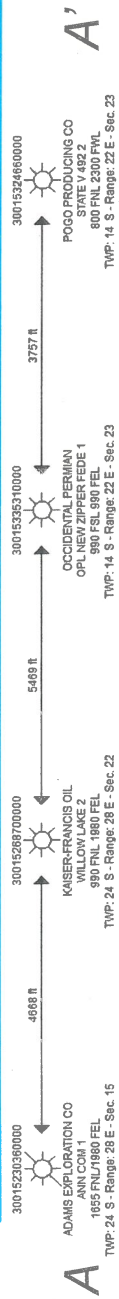


Exhibit 12

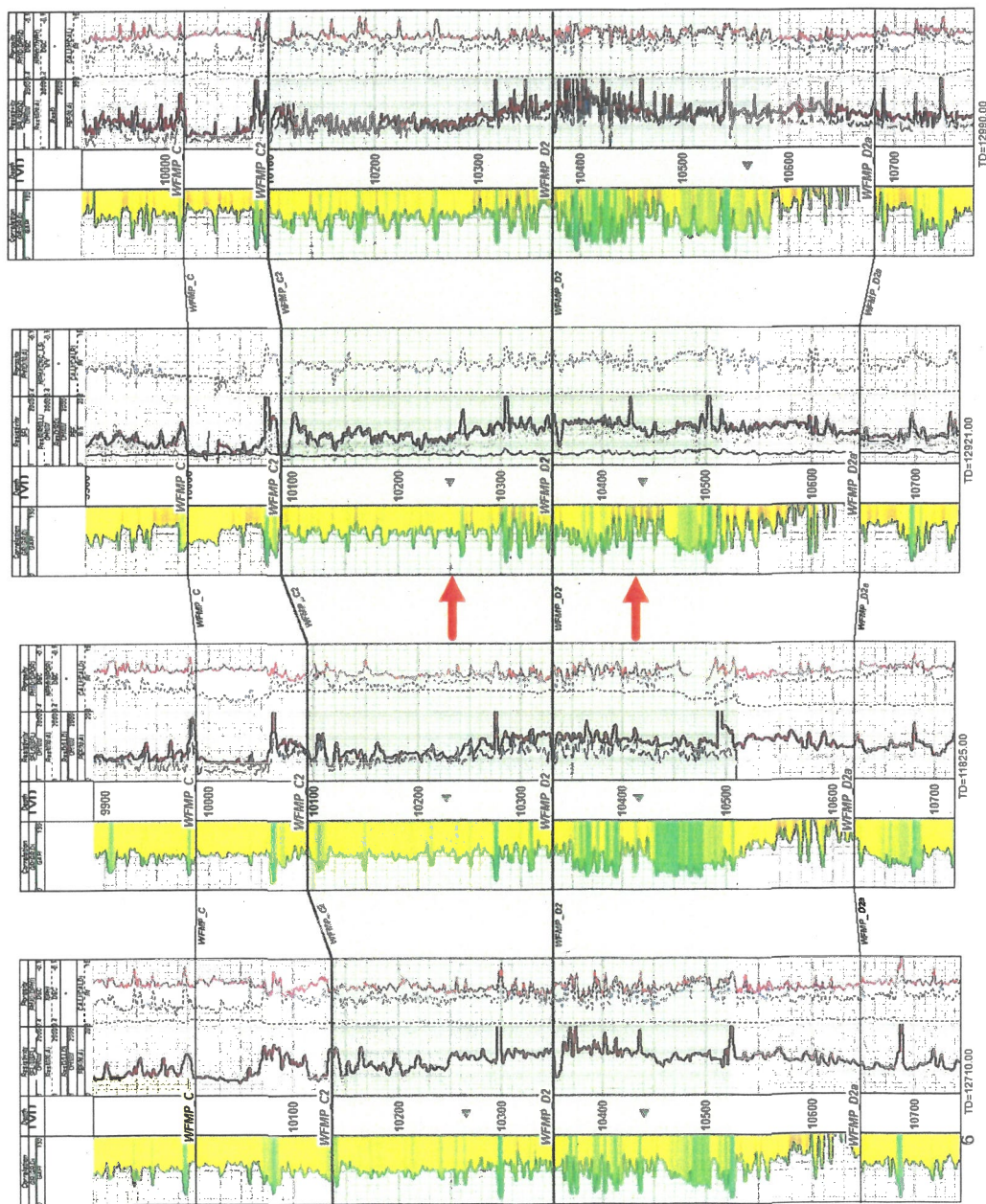
Honey Mustard 22 Fed Com Unit

Stratigraphic Cross Section (Wolfcamp D2 Datum)



Wolfcamp C2 interval thickens from North to South

Relatively consistent D2 thickness across the unit



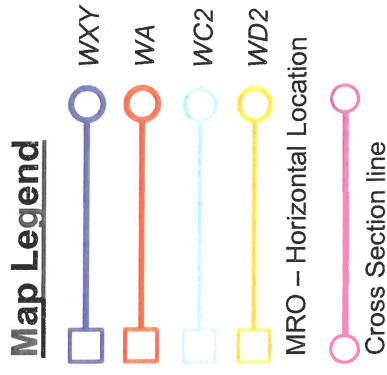
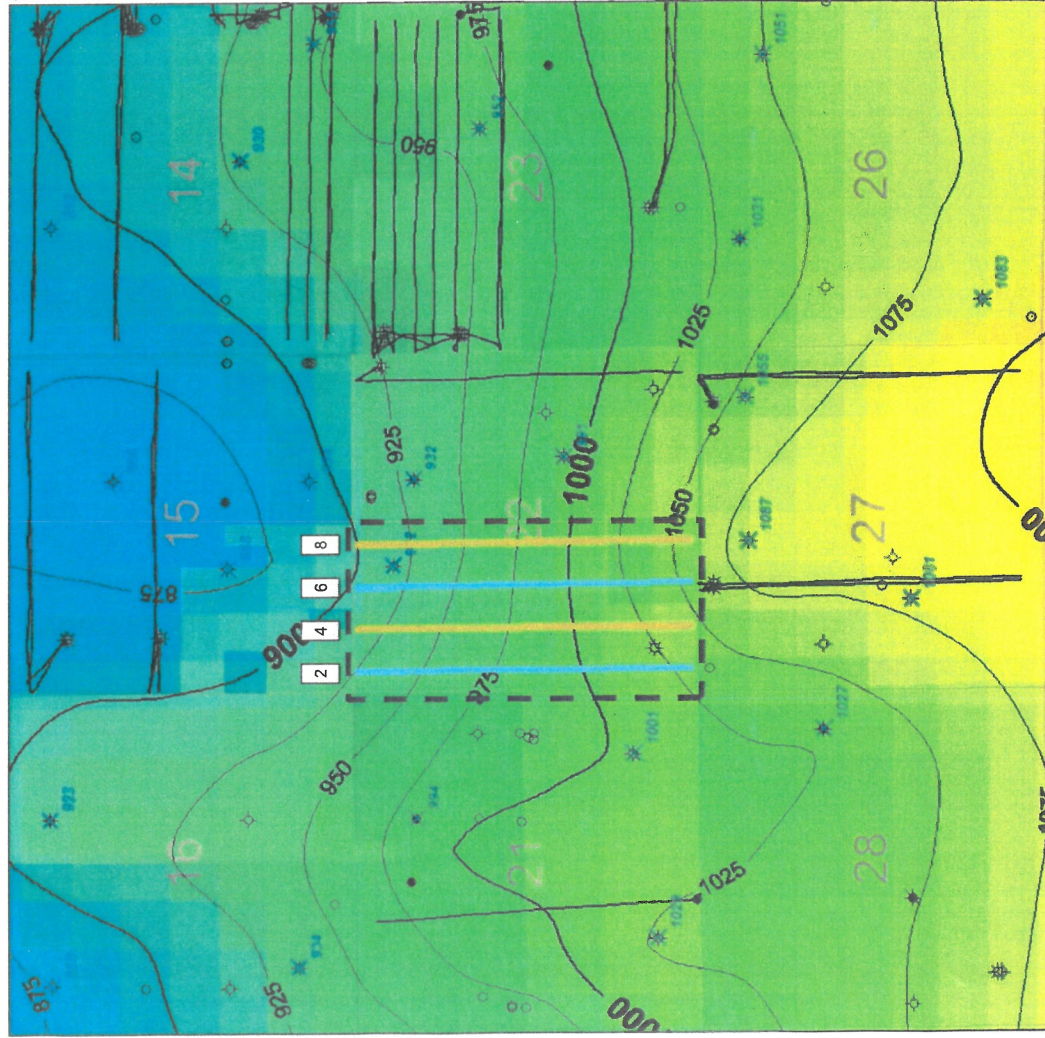
Producing Zone



Exhibit 13

Honey Mustard 22 Fed Com Unit

Gross Interval Isochore – Wolfcamp C2 to Wolfcamp D3



2 Honey Mustard 22 WD Fed Com 3H

4 Honey Mustard 22 WD Fed Com 5H

6 Honey Mustard 22 WD Fed Com 11H

8 Honey Mustard 22 WD Fed Com 10H

MRO Acreage

Project Area

1 mile

EXHIBIT

13

MarathonOil