

**Before the Oil Conservation Division
Examiner Hearing June 27, 2019**

Case No. 20563: Nemesis 7 SB Fee 6H

and

***Case No. 20470: Nemesis 7 WXY Fee 1H; Nemesis 7 WA Fee 3H;
Nemesis 7 WXY Fee 5H; Nemesis 7 WA Fee 7H; Nemesis 7 WD Fee
2H; Nemesis 7 WD Fee 4H; and Nemesis 7 WD Fee 8H***



Marathon Oil®

**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. 20563

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

CASE NO. 20470

AFFIDAVIT

STATE OF TEXAS)
) ss.
COUNTY OF HARRIS)

Jeffrey Broussard, being duly sworn, deposes and states:

1. I am over the age of 18, I am a landman 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 landman.

2. I submit the following information pursuant to NMAC 19.15.4.12.A(1) in support of the above referenced compulsory pooling applications.

3. Attached as **Exhibit 1 and 2** are the applications for Case No. 20563 and Case No. 20470.

4. The purpose of these applications is to force pool working interest owners into the horizontal spacing unit described below, and in the wells to be drilled in the unit.

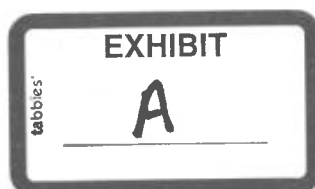


Exhibit A-Case Nos. 20563/20470

5. No opposition is expected because the interest owners being pooled have been contacted regarding the proposed wells, but have failed or refused to voluntarily commit their interests in the wells.

6. In Case No. 20563, Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Nemesis 7 SB Fee 6H well, to be horizontally drilled.

7. The producing areas for this well will be orthodox.

8. In Case No. 20470, Marathon seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Nemesis 7 WXY Fee 1H; Nemesis 7 WA Fee 3H; Nemesis 7 WXY Fee 5H; Nemesis 7 WA Fee 7H; Nemesis 7 WD Fee 2H; Nemesis 7 WD Fee 4H; Nemesis 7 WD Fee 8H wells, to be horizontally drilled.

9. The producing area for these wells will be orthodox.

10. Attached as **Exhibit 3** are the proposed C-102s for the wells.

11. The Bone Spring well will develop the Culebra Bluff, Bone Spring, South Pool, Pool Code 15011.

12. The Wolfcamp wells will develop the Purple Sage Wolfcamp Pool, Pool Code 98220, which is a gas pool.

13. A lease tract map outlining the Bone Spring unit being pooled is attached hereto as **Exhibit 4-A**. The parties being pooled and the percent of their interests is also included as part of **Exhibit 4-A**.

14. A lease tract map outlining the Wolfcamp unit being pooled is attached hereto as **Exhibit 4-B**. The parties being pooled and the percent of their interests is also included as part of Exhibit 4-B.

15. There are certain unleased mineral interest owners with whom Marathon is currently negotiating to the extent possible. Certain of unleased mineral interests are in the process of or will be determined via probate or other proceedings. Marathon does not seek to pool those interests at this time.

16. There are no depth severances within the Bone Spring formation.

17. There are no depth severances within the Wolfcamp formation.

18. I have conducted a diligent search of the public records in the county where the wells are located, and conducted phone directory and computer searches to locate contact information for parties entitled to notification, and mailed all parties well proposals, including an Authorization for Expenditure.

19. In my opinion, Marathon has made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells.

20. Exhibit 5 is an example of the proposal letters sent to working interest owners, along with an example of the proposal letter sent to the New Mexico Department of Transportation.

21. Exhibit 6 contains the Authorization for Expenditure for the proposed wells. The estimated cost of the wells set forth therein is fair and reasonable, and is comparable to the costs of other wells of similar depths and length drilled in this area of New Mexico.

22. Marathon requests overhead and administrative rates of \$7000.00/month for drilling a well and \$700.00/month for a producing well. These rates are fair, and comparable to the rates charged by other operators for wells of this type in this area of Southeastern, New Mexico.

Marathon requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.

23. Marathon requests the maximum cost plus 200% risk charge be assessed against non-consenting working interest owners.

24. Marathon requests that it be designated operator of the wells.

25. Marathon requests that it be allowed a period of one (1) year between when the wells are drilled and when the first well is completed under the order.

26. The parties Marathon is seeking to pool were notified of this hearing.

27. Marathon requests that overriding royalty interest owners be pooled.

28. Exhibit 18 is an affidavit of notice prepared by counsel for Marathon that shows the parties who were notified of this hearing, the status of whether they received notice, and an affidavit of publication from the Carlsbad Current-Argus newspaper, showing that notice of this hearing was published on April 18, 2019.

29. The attachments to this affidavit were prepared by me, or compiled from company business records, or were prepared at my direction.


30. I attest that the information provided herein is correct and complete to the best of my knowledge and belief.

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

[Signature page follows]


Jeffrey Broussard

SUBSCRIBED AND SWORN to before me this 25th day of June, 2019 by Jeffrey Broussard on behalf of Marathon Oil Permian LLC.


Notary Public

My commission expires: 1/23/2023

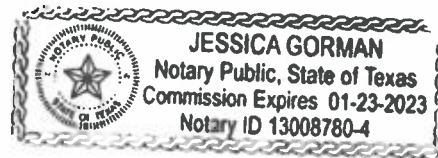


Exhibit 1

Case No. 20563 Application

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

CASE NO. _____

APPLICATION

Marathon Oil Permian LLC ("Marathon"), OGRID Number 372098, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 E/2 of Sections 7 and 18, Township 23 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 E/2 of Sections 7 and 18, Township 23 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 **Nemesis 7 SB Fee 6H** well to a depth sufficient to test the Bone Spring formation. This well will be horizontally drilled.
4. This well will be located within the Culebra Bluff; Bone Spring, South pool, pool code 15011.



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

6. The pooling of all interests in the Bone Spring 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 well is drilled and completion of the 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 Bone Spring formation underlying a horizontal spacing unit within the W/2 E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico;

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

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

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

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

F. Allowing a time period of one (1) year between when the well is drilled and when the 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. ____: 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 Bone Spring horizontal spacing unit underlying the W/2 E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Nemesis 7 SB Fee 6H** well, to be horizontally drilled. The producing area for this well will be orthodox. Also to be considered will be the cost of drilling and completing said well, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the well, and a 200% charge for risk involved in drilling said well, and allowing a one year period between when the well is drilled and when the well is completed. Said area is located approximately 2.5 miles Northwest of Loving, New Mexico

Exhibit 2

Case No. 20470 Application

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 AM 09:38

CASE NO. 20470

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 E/2 of Sections 7 and 18, Township 23 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 E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 640-acre, more or less, spacing unit.
3. Marathon plans to drill the **Nemesis 7 WXY Fee 1H; Nemesis 7 WA Fee 3H; Nemesis 7 WXY Fee 5H; Nemesis 7 WA Fee 7H; Nemesis 7 WD Fee 2H; Nemesis 7 WD Fee 4H; Nemesis 7 WD Fee 8H** 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 E/2 of Sections 7 and 18, Township 23 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 20470: 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 E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Nemesis 7 WXY Fee 1H; Nemesis 7 WA Fee 3H; Nemesis 7 WXY Fee 5H; Nemesis 7 WA Fee 7H; Nemesis 7 WD Fee 2H; Nemesis 7 WD Fee 4H; Nemesis 7 WD Fee 8H** 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 2.5 miles Northwest of Loving, New Mexico.

Exhibit 3

C-102s

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 15011	³ Pool Name CULEBRA BLUFF; BONE SPRING, SOUTH
⁴ Property Code	⁵ Property Name NEMESIS 7 SB FEE	⁶ Well Number 6H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

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
B	7	23S	28E		350	NORTH	1740	EAST	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
O	18	23S	28E		100	SOUTH	1984	EAST	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.

<p>Defining Well</p>	<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p>	<p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 564024.29' / Y: 482784.37' B - X: 566655.81' / Y: 482814.55' C - X: 566650.24' / Y: 472159.78' D - X: 564004.98' / Y: 472149.44'</p>	<p>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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>SURFACE HOLE LOCATION 350' FNL 1740' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606094.63' / Y: 482503.86' LAT: 32.32630108N / LON: 104.12368565W NAD 27, SPCS NM EAST X: 564912.33' / Y: 482444.54' LAT: 32.32618112N / LON: 104.12318801W</p>		
	<p>KICK OFF POINT 100' FNL 1974' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 605863.41' / Y: 482751.22' LAT: 32.32698228N / LON: 104.12443265W NAD 27, SPCS NM EAST X: 564681.12' / Y: 482691.90' LAT: 32.32686234N / LON: 104.12393496W</p>		
	<p>FIRST TAKE POINT 100' FNL 1974' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 605863.41' / Y: 482751.22' LAT: 32.32698228N / LON: 104.12443265W NAD 27, SPCS NM EAST X: 564681.12' / Y: 482691.90' LAT: 32.32686234N / LON: 104.12393496W</p>		
<p>LAST TAKE POINT/BOTTOM HOLE LOCATION 100' FNL 1984' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 605848.08' / Y: 472311.08' LAT: 32.29828397N / LON: 104.12454814W NAD 27, SPCS NM EAST X: 564665.54' / Y: 472252.02' LAT: 32.29816384N / LON: 104.12405139W</p>			<p>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.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number _____</p>

EXHIBIT

3

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Phone: (575) 393-6161 Fax: (575) 393-0720
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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 NEMESIS 7 WXY FEE	⁶ Well Number 1H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

¹⁰ Surface Location

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	7	23S	28E		550	NORTH	1650	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	23S	28E		330	SOUTH	330	EAST	EDDY

¹² Dedicated Acres 640.0	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.

<p>SECTION 1 SECTION 6 SECTION 12 SECTION 7 SECTION 13 SECTION 18 SECTION 19 SECTION 24</p> <p>SECTION 5 SECTION 8 SECTION 17 SECTION 20</p> <p>SHL KOP/ FIRST TAKE PI LAST TAKE/ BHL</p> <p>550' 330' 330' 330' 330' 330' 330'</p> <p>S00°31'48"W ~ 5035.07' S00°28'50"E ~ 4957.81'</p> <p>SHEET 1 OF 1 JOB No. R3979_001_A REV 0 JCS 4/23/2019</p>	<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p>	<p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 564024.28' / Y: 482784.37' B - X: 566655.81' / Y: 482814.55' C - X: 566650.24' / Y: 472159.78' D - X: 564004.98' / Y: 472149.44'</p>	<p>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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>Certificate Number _____</p>
	<p>SURFACE HOLE LOCATION 550' FNL 1650' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606182.80' / Y: 482304.86' LAT: 32.32575358N / LON: 104.12340149W NAD 27, SPCS NM EAST X: 565000.49' / Y: 482245.54' LAT: 32.32563362N / LON: 104.12290388W</p>		
	<p>KICK OFF POINT 330' FNL 330' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 607505.03' / Y: 482540.05' LAT: 32.32639290N / LON: 104.11911937W NAD 27, SPCS NM EAST X: 566322.71' / Y: 482480.71' LAT: 32.32627289N / LON: 104.11862189W</p>		
	<p>FIRST TAKE POINT 330' FNL 330' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 607505.03' / Y: 482540.05' LAT: 32.32639290N / LON: 104.11911937W NAD 27, SPCS NM EAST X: 566322.71' / Y: 482480.71' LAT: 32.32627289N / LON: 104.11862189W</p>		
<p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 330' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 607500.04' / Y: 472547.56' LAT: 32.29892507N / LON: 104.11820014W NAD 27, SPCS NM EAST X: 566317.48' / Y: 472488.47' LAT: 32.29880486N / LON: 104.11870358W</p>			<p>PRELIMINARY THIS PLAT IS NOT TO BE USED FOR RECORDATION, BIDDING, RECORDATION, OR SALE OF THE BASIS FOR THE ISSUANCE OF A PERMIT.</p>

District I
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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 NEMESIS 7 WD FEE			⁶ Well Number 2H
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC			⁹ Elevation 3045'

" Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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" Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	23S	28E		330	SOUTH	330	EAST	EDDY

¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p> <p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 564024.29' / Y: 482784.37' B - X: 566655.81' / Y: 482814.55' C - X: 568650.24' / Y: 472159.78' D - X: 564004.98' / Y: 472149.44'</p>	<p>SURFACE HOLE LOCATION 350' FNL 1650' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606184.65' / Y: 482504.89' LAT: 32.32630343N / LON: 104.12339423W NAD 27, SPCS NM EAST X: 565002.34' / Y: 482445.57' LAT: 32.32618348N / LON: 104.12289660W</p> <p>KICK OFF POINT 330' FNL 330' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 607505.03' / Y: 482540.05' LAT: 32.32639290N / LON: 104.11911937W NAD 27, SPCS NM EAST X: 566322.71' / Y: 482480.71' LAT: 32.32627289N / LON: 104.11862189W</p> <p>FIRST TAKE POINT 330' FNL 330' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 607505.03' / Y: 482540.05' LAT: 32.32639290N / LON: 104.11911937W NAD 27, SPCS NM EAST X: 566322.71' / Y: 482480.71' LAT: 32.32627289N / LON: 104.11862189W</p> <p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 330' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 607500.04' / Y: 472547.56' LAT: 32.29892507N / LON: 104.11920014W NAD 27, SPCS NM EAST X: 566317.48' / Y: 472488.47' LAT: 32.29880486N / LON: 104.11870358W</p>	<p>" OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
		<p>" 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.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number _____</p>
		<p>PRELIMINARY THIS IS NOT TO BE USED FOR PERMITS, BIDDING, RECORDATION, OR SALE OF THE EASES FOR THE ISSUANCE OF A PERMIT.</p>
		<p>SHEET 1 OF 1 JOB No. R3979_002_A REV 0 JCS 4/23/2019</p>

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Form C-102
Revised August 1, 2011
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☐ 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 NEMESIS 7 WA FEE	⁶ Well Number 3H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

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
B	7	23S	28E		550	NORTH	1680	EAST	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
P	18	23S	28E		330	SOUTH	992	EAST	EDDY

¹² Dedicated Acres 640.0	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.

<p>SECTION 1 SECTION 6 SECTION 12 T23S R27E SECTION 7 T23S R28E SECTION 13 SECTION 18 SECTION 24 SECTION 19</p> <p>SHL PI LAST TAKE/BHL</p> <p>550' 330' 330' 986' 986' 1680' 330' 992'</p> <p>KOP/ FIRST TAKE</p> <p>500°34'36"W - 5026.54' 500°27'04"E - 4961.43'</p> <p>SHEET 1 OF 1 JOB No. R3979_001_B REV 0 JCS 4/23/2019</p>	<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p>	<p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 564024.29' / Y: 482784.37' B - X: 566855.81' / Y: 482814.55' C - X: 566650.24' / Y: 472159.78' D - X: 564004.98' / Y: 472149.44'</p>	<p>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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>Certificate Number _____</p>
	<p>SURFACE HOLE LOCATION 550' FNL 1680' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606152.78' / Y: 482304.51' LAT: 32.32575279N / LON: 104.12349863W NAD 27, SPCS NM EAST X: 564970.48' / Y: 482245.20' LAT: 32.32563284N / LON: 104.12300101W</p>		
	<p>KICK OFF POINT 330' FNL 986' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606849.08' / Y: 482532.52' LAT: 32.32637579N / LON: 104.12124299W NAD 27, SPCS NM EAST X: 565666.77' / Y: 482473.19' LAT: 32.32625580N / LON: 104.12074544W</p>		
	<p>FIRST TAKE POINT 330' FNL 986' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606849.08' / Y: 482532.52' LAT: 32.32637579N / LON: 104.12124299W NAD 27, SPCS NM EAST X: 565666.77' / Y: 482473.19' LAT: 32.32625580N / LON: 104.12074544W</p>		
<p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 992' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 606837.56' / Y: 472544.96' LAT: 32.29892154N / LON: 104.12134424W NAD 27, SPCS NM EAST X: 565655.02' / Y: 472485.88' LAT: 32.29880137N / LON: 104.12084759W</p>			<p>PRELIMINARY THIS PLAT IS NOT TO BE USED FOR RECORDATION, BIDDING, RECORDATION, SALE OR THE BASIS FOR THE ISSUANCE OF A PERMIT FOR THE</p>

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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 NEMESIS 7 WD FEE	⁶ Well Number 4H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

¹⁰ Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	7	23S	28E		350	NORTH	1680	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	18	23S	28E		330	SOUTH	1254	EAST	EDDY

¹² Dedicated Acres 640.0	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.

<p>SECTION 1 SECTION 6 SECTION 12 SECTION 7 SECTION 13 SECTION 18 SECTION 24</p> <p>SHL KOP/ FIRST TAKE PI LAST TAKE/ BHL</p> <p>350' 330' 330' 1254' 1254' 1680' 330'</p> <p>500°31'47"W - 5023.01' 500°28'49"E - 4962.88'</p> <p>SHEET 1 OF 1 JOB No. R3979_002.B REV 0 JCS 4/23/2019</p>	<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p>	<p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 564024.29' / Y: 482784.37' B - X: 566655.81' / Y: 482814.55' C - X: 566650.24' / Y: 472159.78' D - X: 564004.98' / Y: 472149.44'</p>	<p>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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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.</p> <p>Date of Survey _____</p> <p>Signature _____</p> <p>Certificate Number _____</p>
	<p>SURFACE HOLE LOCATION 350' FNL 1680' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606154.64' / Y: 482504.55' LAT: 32.32630265N / LON: 104.12349137W NAD 27, SPCS NM EAST X: 564972.34' / Y: 482445.23' LAT: 32.32618269N / LON: 104.12299374W</p>		
	<p>KICK OFF POINT 330' FNL 1254' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606580.89' / Y: 482529.44' LAT: 32.32636878N / LON: 104.12211126W NAD 27, SPCS NM EAST X: 565398.58' / Y: 482470.12' LAT: 32.32624881N / LON: 104.12161368W</p>		
	<p>FIRST TAKE POINT 330' FNL 1254' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606580.89' / Y: 482529.44' LAT: 32.32636878N / LON: 104.12211126W NAD 27, SPCS NM EAST X: 565398.58' / Y: 482470.12' LAT: 32.32624881N / LON: 104.12161368W</p>		
<p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 1254' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 606576.04' / Y: 472543.93' LAT: 32.29892014N / LON: 104.12219065W NAD 27, SPCS NM EAST X: 565393.50' / Y: 472484.86' LAT: 32.29878998N / LON: 104.12169397W</p>			

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¹ API Number	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name NEMESIS 7 WXY FEE	⁶ Well Number 5H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

¹⁰ Surface Location

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	7	23S	28E		550	NORTH	1710	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

U/I. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	18	23S	28E		330	SOUTH	1652	EAST	EDDY

¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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<p>SECTION 1 SECTION 6 SECTION 12 SECTION 7 SECTION 13 SECTION 18 SECTION 19 SECTION 20</p> <p>T23S R27E T23S R28E</p> <p>SHEET 1 OF 1 JOB No. R3979_001_C REV 0 JCS 4/23/2019</p>	<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p> <p>KOP/ FIRST TAKE</p> <p>550' FNL 1710' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606122.79' / Y: 482304.17' LAT: 32.32575201N / LON: 104.12359577W NAD 27, SPCS NM EAST X: 564940.48' / Y: 482244.85' LAT: 32.32563205N / LON: 104.12309815W</p> <p>KICK OFF POINT 330' FNL 1646' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606188.97' / Y: 482524.94' LAT: 32.32635853N / LON: 104.12338010W NAD 27, SPCS NM EAST X: 565006.67' / Y: 482465.62' LAT: 32.32623857N / LON: 104.12288247W</p> <p>FIRST TAKE POINT 330' FNL 1646' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606188.97' / Y: 482524.94' LAT: 32.32635853N / LON: 104.12338010W NAD 27, SPCS NM EAST X: 565006.67' / Y: 482465.62' LAT: 32.32623857N / LON: 104.12288247W</p> <p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 1652' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 606177.56' / Y: 472542.37' LAT: 32.29891800N / LON: 104.12348031W NAD 27, SPCS NM EAST X: 564995.03' / Y: 472483.30' LAT: 32.29879786N / LON: 104.12298358W</p>	<p>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.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p>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.</p> <p>Date of Survey _____</p> <p>Signature _____ I am a Licensed Professional Surveyor.</p> <p>PRELIMINARY THIS DOCUMENT IS NOT TO BE USED FOR CONVEYANCE, SALE OR THE BASIS FOR THE ISSUANCE OF A PERMIT.</p> <p>Certificate Number _____</p>
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¹ API Number	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name NEMESIS 7 WA FEE	⁶ Well Number 7H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

¹⁰ Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	7	23S	28E		550	NORTH	1740	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	18	23S	28E		330	SOUTH	2310	EAST	EDDY

¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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	<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p>	<p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 564024.29' / Y: 482784.37' B - X: 566655.81' / Y: 482814.55' C - X: 566650.24' / Y: 472159.78' D - X: 564004.98' / Y: 472149.44'</p>	<p>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</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>SURFACE HOLE LOCATION 550' FNL 1740' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 606092.78' / Y: 482303.82' LAT: 32.32575122N / LON: 104.12369291W NAD 27, SPCS NM EAST X: 564910.48' / Y: 482244.51' LAT: 32.32563127N / LON: 104.12319528W</p>	<p>KICK OFF POINT 330' FNL 2302' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 605533.04' / Y: 482517.41' LAT: 32.32634134N / LON: 104.12550369W NAD 27, SPCS NM EAST X: 564350.74' / Y: 482458.10' LAT: 32.32622141N / LON: 104.12500599W</p>	
	<p>FIRST TAKE POINT 330' FNL 2302' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 605533.04' / Y: 482517.41' LAT: 32.32634134N / LON: 104.12550369W NAD 27, SPCS NM EAST X: 564350.74' / Y: 482458.10' LAT: 32.32622141N / LON: 104.12500599W</p>	<p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 2310' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 605520.04' / Y: 472539.79' LAT: 32.29891443N / LON: 104.12560838W NAD 27, SPCS NM EAST X: 564337.51' / Y: 472480.73' LAT: 32.29879432N / LON: 104.12511157W</p>	
	<p>PRELIMINARY THIS DOCUMENT IS NOT TO BE USED FOR ANALYSIS, BIDDING, RECORDATION, OR SALE OF THE BASIS FOR THE ISSUANCE OF A PERMIT</p>		
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⁴ Property Code	⁵ Property Name NEMESIS 7 WD FEE	⁶ Well Number 8H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

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
B	7	23S	28E		350	NORTH	1710	EAST	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
O	18	23S	28E		330	SOUTH	2178	EAST	EDDY

¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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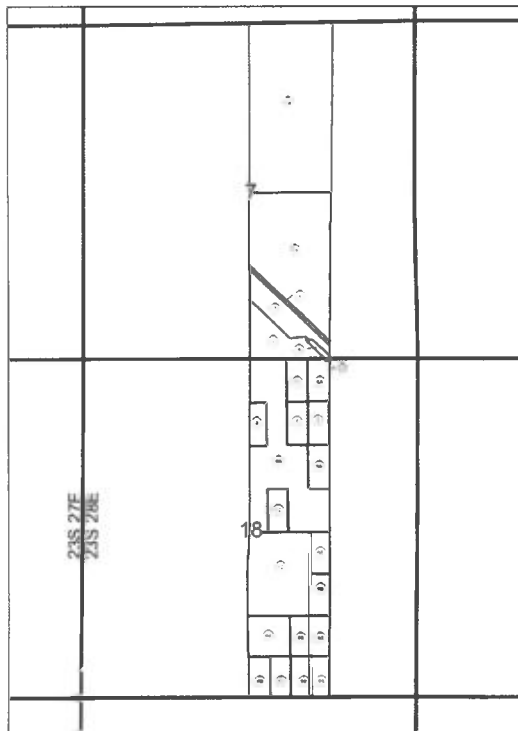
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	<p>CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 605206.57' / Y: 482843.69' B - X: 607838.13' / Y: 482873.90' C - X: 607832.81' / Y: 472218.86' D - X: 605187.51' / Y: 472208.49'</p>	<p>CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 584024.29' / Y: 482784.37' B - X: 586655.81' / Y: 482814.55' C - X: 586650.24' / Y: 472159.78' D - X: 584004.98' / Y: 472149.44'</p>	<p>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 under heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
	<p>SURFACE HOLE LOCATION 350' FNL 1710' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 608124.64' / Y: 482504.20' LAT: 32.32630186N / LON: 104.12358851W NAD 27, SPCS NM EAST X: 584942.33' / Y: 482444.88' LAT: 32.32618191N / LON: 104.12309087W</p>	<p>KICK OFF POINT 330' FNL 2178' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 605656.75' / Y: 482518.83' LAT: 32.32634458N / LON: 104.12510316W NAD 27, SPCS NM EAST X: 584474.46' / Y: 482459.52' LAT: 32.32622465N / LON: 104.12460547W</p>	
	<p>FIRST TAKE POINT 330' FNL 2178' FEL, SECTION 7 NAD 83, SPCS NM EAST X: 605656.75' / Y: 482518.83' LAT: 32.32634458N / LON: 104.12510316W NAD 27, SPCS NM EAST X: 584474.46' / Y: 482459.52' LAT: 32.32622465N / LON: 104.12460547W</p>	<p>LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 2178' FEL, SECTION 18 NAD 83, SPCS NM EAST X: 605652.04' / Y: 472540.31' LAT: 32.29891515N / LON: 104.12518117W NAD 27, SPCS NM EAST X: 564469.51' / Y: 472481.25' LAT: 32.29879503N / LON: 104.12468437W</p>	
	<p>PRELIMINARY THIS PLAT IS NOT TO BE USED FOR RECORDATION, BIDDING, RECORDATION, LEASE SALE OR THE BASIS FOR THE ISSUANCE OF A PERMIT</p>		

Exhibit 4

Lease Tract Map and Interests

' Lease Tract Map
Nemesis 7 SB Fee 6H
W/2 E/2 of Sections 7 & 18, T23S-R28E— 320 acres



- All tracts are Fee acreage



Summary of Interests

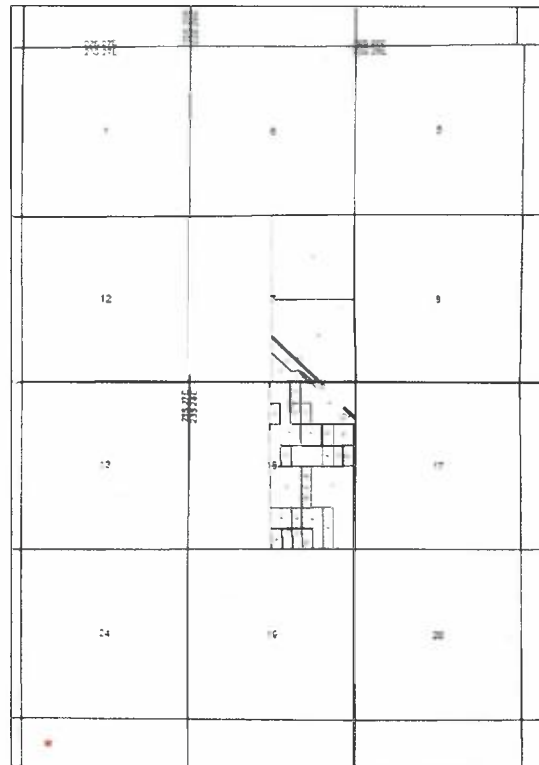
Nemesis 7 SB Fee 6H

W/2 E/2 of Sections 7 & 18, T23S-R28E– 320 acres

<u>Committed Working Interest:</u>	54.894304%
Marathon Oil Permian LLC	54.894304%
 <u>Uncommitted Working Interest:</u>	 40.318732%
OXY USA WTP Limited Partnership	23.498148%
Chevron USA Inc.	9.453539%
Fasken Land & Minerals, Ltd.	7.367045%
 <u>Unleased Mineral Interest:</u>	 0.847989%
State Highway Commission of NM	0.847989%

Lease Tract Map

Nemesis 7 WXY Fee 1H, Nemesis 7 WA Fee 3H, Nemesis 7 WXY Fee 5H, Nemesis 7 WA Fee 7H,
Nemesis 7 WD Fee 2H, Nemesis 7 WD Fee 4H, Nemesis 7 WD Fee 8H
E/2 of Sections 7 & 18, T23S-R28E- 640 acres

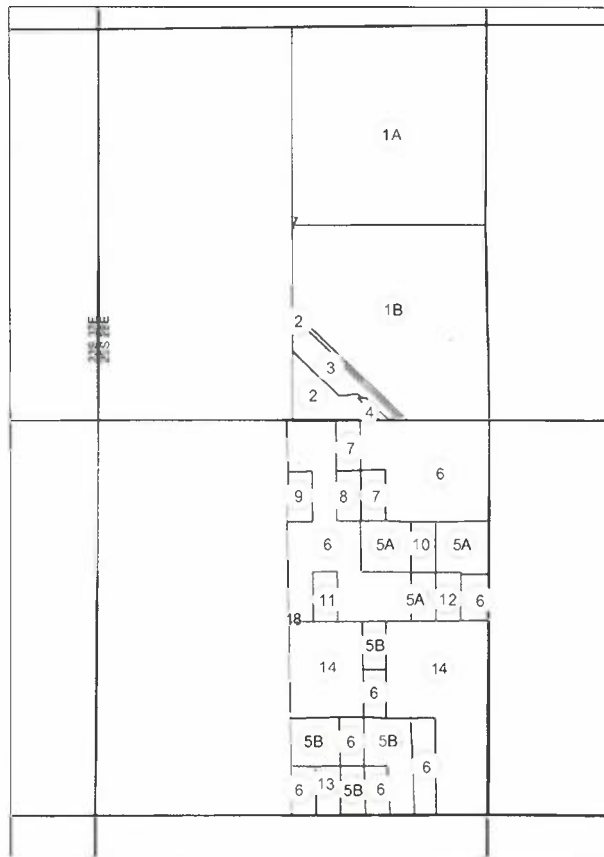


- All tracts are Fee Acreage



Lease Tract Map

Nemesis 7 WXY Fee 1H, Nemesis 7 WA Fee 3H, Nemesis 7 WXY Fee 5H, Nemesis 7 WA Fee 7H,
Nemesis 7 WD Fee 2H, Nemesis 7 WD Fee 4H, Nemesis 7 WD Fee 8H
E/2 of Sections 7 & 18, T23S-R28E- 640 acres



Summary of Interests

Nemesis 7 WXY Fee 1H, Nemesis 7 WA Fee 3H, Nemesis 7 WXY Fee 5H, Nemesis 7 WA Fee 7H,
Nemesis 7 WD Fee 2H, Nemesis 7 WD Fee 4H, Nemesis 7 WD Fee 8H
E/2 of Sections 7 & 18, T23S-R28E– 640 acres

<u>Committed Working Interest:</u>	51.414968%
Marathon Oil Permian LLC	51.414968%
 <u>Committed Working Interest (Elections but no JOA):</u>	 0.5804325%
MRC Permian Company	0.5804325%
 <u>Uncommitted Working Interest:</u>	 45.526091%
OXY USA WTP Limited Partnership	24.317024%
Chevron USA Inc.	13.930379%
Fasken Land & Minerals, Ltd.	7.278688%
 <u>Unleased Mineral Interest:</u>	 0.446995%
State Highway Commission of NM	0.423329%
NM Department of Transportation	0.023666%



Exhibit 5

Well proposal letter

Jeffrey Broussard
Landman



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

January 30, 2019

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED
7017 2680 0000 3163 1290

OXY USA WTP Limited Partnership
5 Greenway Plaza, Suite 110
Houston, Texas 77046

Re: Nemesis 1H, 2H, 3H, 4H, 5H, 6H, 7H, 8H Well Proposals
E/2 of Sections 7 & 18, Township 23 South, Range 28 East
Eddy County, New Mexico

Dear OXY USA WTP Limited Partnership:

Marathon Oil Permian LLC ("Marathon") proposes the drilling of the following wells located in Sections 7 & 18, 23S-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	Nemesis 7 WXY Fee 1H	1650' FEL & 550' FNL of Sec. 7	330' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,380'	19,690'
1	Nemesis 7 WA Fee 3H	1680' FEL & 550' FNL of Sec. 7	1000' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,501'	19,742'
1	Nemesis 7 WXY Fee 5H	1710' FEL & 550' FNL of Sec. 7	1650' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,375'	19,589'
1	Nemesis 7 WA Fee 7H	1740' FEL & 550' FNL of Sec. 7	2310' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,495'	19,725'
2	Nemesis 7 WD Fee 2H	1650' FEL & 350' FNL of Sec. 7	330' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,960'	20,261'
2	Nemesis 7 WD Fee 4H	1680' FEL & 350' FNL of Sec. 7	1254' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	10,274'	20,495'
2	Nemesis 7 WD Fee 8H	1710' FEL & 350' FNL of Sec. 7	2178' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,960'	20,181'
2	Nemesis 7 SB Fee 6H	1740' FEL & 350' FNL of Sec. 7	1980' FEL & 100' FSL of Sec. 18	E/2 of Secs. 7 & 18	7,825'	18,503'

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 E/2 of Sections 7 & 18, 23S-28E, covering from the top of the Bone Spring 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 March 1, 2019 and is subject to due diligence and title verification satisfactory to Marathon.

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

Sincerely,



Jeffrey Broussard
Marathon Oil Permian LLC

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 1H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 1H.

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 2H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 2H.

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 3H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 3H.

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 4H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 4H.

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 5H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 5H.

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 SB Fee 6H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 SB Fee 6H.

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 7H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 7H.

_____ OXY USA WTP Limited Partnership elects to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 8H.

_____ OXY USA WTP Limited Partnership elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 8H.

OXY USA WTP Limited Partnership

By: _____

Print Name: _____

Title: _____

Date: _____

Jeffrey Broussard
Landman



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

January 31, 2019

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED
7017 2680 0000 3163 1306

State of New Mexico, Department of Transportation
P.O. Box 1148
Santa Fe, New Mexico 87501

Re: Nemesis 1H, 2H, 3H, 4H, 5H, 6H, 7H, and 8H Well Proposals
E/2 of Sections 7 & 18, Township 23 South, Range 28 East
Eddy County, New Mexico

Dear State of New Mexico, Department of Transportation:

The records of Marathon Oil Permian LLC ("Marathon") indicates that you own an unleased mineral interest in the E/2 of Sections 7 & 18, 23S-28E. As an unleased mineral owner, Marathon would like to offer you the opportunity to lease your minerals to Marathon at the below lease terms:

This offer to lease terminates March 1, 2019 and is subject to due diligence and title verification satisfactory to Marathon. Should you be agreeable to this offer to lease, please sign the lease form in the presence of a notary and complete the IRS Form W-9 included in this proposal and return them in the enclosed self-addressed, stamped envelope.

Marathon proposes the drilling of the following wells located in Sections 7 & 18, 23S-28E, Eddy County, New Mexico, all to be drilled from two surface pad locations. Should you not elect to lease, Marathon would also like to offer you the opportunity to participate in the drilling of the wells as a working interest owner.

Pad	Well Name	SHL	BHL	Proration Unit	Target TVD	Est. MD
1	Nemesis 7 WXY Fee 1H	1650' FEL & 550' FNL of Sec. 7	330' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,380'	19,690'
1	Nemesis 7 WA Fee 3H	1680' FEL & 550' FNL of Sec. 7	1000' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,501'	19,742'
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1	Nemesis 7 WA Fee 7H	1740' FEL & 550' FNL of Sec. 7	2310' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,495'	19,725'
2	Nemesis 7 WD Fee 2H	1650' FEL & 350' FNL of Sec. 7	330' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,960'	20,261'
2	Nemesis 7 WD Fee 4H	1680' FEL & 350' FNL of Sec. 7	1254' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	10,274'	20,495'

2	Nemesis 7 WD Fee 8H	1710' FEL & 350' FNL of Sec. 7	2178' FEL & 330' FSL of Sec. 18	E/2 of Secs. 7 & 18	9,960'	20,181'
2	Nemesis 7 SB Fee 6H	1740' FEL & 350' FNL of Sec. 7	1980' FEL & 100' FSL of Sec. 18	E/2 of Secs. 7 & 18	7,825'	18,503'

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, and if you are interested in participating, please execute and return the enclosed JOA. The JOA has these general provisions:

- 100%/300%/300% non-consent penalty
- \$7,000/\$700 drilling and producing rates
- Contract area of E/2 of Sections 7 & 18, 23S-28E, covering the depths from the top of the Bone Spring 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.

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

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 1H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 1H.

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 2H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 2H.

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 3H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 3H.

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 4H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 4H.

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 5H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WXY Fee 5H.

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 SB Fee 6H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 SB Fee 6H.

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 7H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WA Fee 7H.

_____ State of New Mexico, Department of Transportation elects to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 8H.

_____ State of New Mexico, Department of Transportation elects NOT to participate in the drilling, completing, and equipping of the Nemesis 7 WD Fee 8H.

State of New Mexico, Department of Transportation

By: _____

Print Name: _____

Title: _____

Date: _____

Exhibit 6

All AFEs

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

DATE 11/19/2018
 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	CULEBRA BLUFF/BO	FORMATION: 2ND BONE SPRINGS	WILDCAT	EXPLORATION
Lease/Facility	Nemeds 7 SB Fee 6H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth 18,503 Est Drilling Days _____ Est Completion Days 11

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	190,000
7012050	Production Casing	133,000
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		556,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	471,250
7019040	Directional Drilling Services	155,000
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	75,000
7019140	Mud Fluids & Services	62,000
7012310	Solids Control equipment	32,000
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	19,063
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	72,500
7018150	Rig Equipment and Misc.	9,063
7001110	Telecommunications Services	5,000
7001120	Consulting Services	85,188
7001400	Safety and Environmental	29,000
7018120	Rental Buildings (trailers)	14,500
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	152,884
TOTAL DRILLING - INTANGIBLE		\$1,780,947

TOTAL DRILLING COST \$2,336,947

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 11/19/2018

Asset Team PERMIAN
Field CULEBRA BLUFF, BC FORMATION: 2ND BONE SPRINGS
Lease/Facility Nemesis 7 SB Fee 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)	350,000
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)	360,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe; drig & compl)	20,000
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	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200

TOTAL COMPLETION COST

\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

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

TOTAL SURFACE EQUIPMENT COST

\$ 839,730

ARTIFICIAL LIFT

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

TOTAL ARTIFICIAL LIFT COST

\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

TOTAL COST

TOTAL LOCATION COST	\$ 71,250
TOTAL DRILLING COST	\$ 2,336,947
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$9,823,627

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

DATE 11/19/2018
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/WOL	FORMATION: WOLFCAMP XY	WILDCAT	EXPLORATION
Lease/Facility	Nemesis 7 WXY Fee 2H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			
Est Total Depth	19,690	Est Drilling Days		Est Completion Days 11

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	128,000
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		592,000

DRILLING COST - INTANGIBLE

7019300	Drilling Rig Mob/Demob	32,500
7019320	Drilling Rig - day work/footage	590,850
7019040	Directional Drilling Services	201,000
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	40,000
7019020	Cement and Cementing Service Production	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging-posttoring	19,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,363
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,800
7018150	Rig Equipment and Misc.	11,363
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,808
7001400	Safety and Environmental	36,360
7018120	Rental Buildings (trailers)	18,180
7019110	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	172,125
TOTAL DRILLING - INTANGIBLE		\$2,039,047

TOTAL DRILLING COST

\$2,631,047

COMPLETION - TANGIBLE

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

Asset Team PERMIAN
 Field PURPLE SAGE;WOL FORMATION: WOLFCAMP XY
 Lease/Facility Nemesis 7 WXY Fee 1H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (Blow hand & equip)	360,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zapper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200
TOTAL COMPLETION COST		\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	67,350
7012500	Tanks	199,450
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	\$ 2,631,047
TOTAL COMPLETION COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,117,727

Participant's Approval

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

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

DATE 11/19/2018
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;WOL	FORMATION: WOLFCAMP D	WILDCAT	EXPLORATION
Lease/Facility	Nemesis 7 WD Fee 2H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth	20,261	Est Drilling Days		Est Completion Days	11
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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	177,820
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		641,820

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	627,250
7019040	Directional Drilling Services	215,000
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	75,000
7019140	Mud Fluids & Services	68,000
7012310	Solids Control equipment	43,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	74,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	20,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	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	22,063
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	96,500
7018150	Rig Equipment and Misc.	12,063
7001110	Telecommunications Services	5,000
7001120	Consulting Services	113,388
7001400	Safety and Environmental	38,600
7018120	Rental Buildings (trailers)	19,300
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	181,964
TOTAL DRILLING - INTANGIBLE		\$2,139,626

TOTAL DRILLING COST

\$2,781,446

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 11/19/2018

Asset Team PERMIAN
Field PURPLE SAGE;WOL FORMATION: WOLFCAMP D
Lease/Facility Nermels 7 WD Fee 2H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	360,000
7019320	Fracturing Services	4,100,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	295,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. BIt, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	459,200
TOTAL COMPLETION - INTANGIBLE		\$6,779,200
TOTAL COMPLETION COST		\$6,794,200

SURFACE EQUIPMENT - TANGIBLE

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

ARTIFICIAL LIFT

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

SUMMARY OF ESTIMATED DRILLING WELL COSTS

TOTAL LOCATION COST	\$ 71,250
TOTAL DRILLING COST	\$ 2,781,446
TOTAL COMPLETIONS COST	\$ 6,794,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,656,126

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

DATE 11/19/2018
 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;WOL	FORMATION: WOLF CAMP A	WILDCAT
Lease/Facility	Nemesis 7 WA Fee 3H		EXPLORATION
Location	EDDY COUNTY		DEVELOPMENT
Prospect	MALAGA		X EXPLOITATION
			RECOMPLETION
			WORKOVER

Est Total Depth	19,742	Est Drilling Days		Est Completion Days	11
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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	128,000
7012050	Orig 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		592,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	590,850
7019040	Directional Drilling Services	201,000
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	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging/geosteering	19,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,363
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,900
7018150	Rlt Equipment and Misc.	11,363
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,808
7001400	Safety and Environmental	36,360
7018120	Rental Buildings (trailers)	18,180
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	172,125
TOTAL DRILLING - INTANGIBLE		\$2,039,047

TOTAL DRILLING COST

\$2,631,047

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 11/19/2018

Asset Team PERMAN
Field PURPLE SAGE;WOL FORMATION: WOLFCAMP A
Lease/Facility Nemesis 7 WA Fee 3H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019120	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drig)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	360,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe; drig & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drig; lghtplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lghtplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200
TOTAL COMPLETION COST		\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	U&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 (ripple, 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)	-
7019150	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	\$ 2,631,047
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,117,727

Participant's Approval

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

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

DATE 11/19/2018
 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/WOL	FORMATION: WOLFCAMP D	WILDCAT	EXPLORATION
Lease/Facility	Nemesis 2 WD Fee 4H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			
Est Total Depth	20,495	Est Drilling Days		Est Completion Days 11

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	177,810
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		641,810

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	627,250
7019040	Directional Drilling Services	215,000
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	75,000
7019140	Mud Fluids & Services	68,000
7012310	Solids Control equipment	43,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	74,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging/geosteering	20,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	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	22,063
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	96,500
7018150	Rig Equipment and Misc.	12,063
7001110	Telecommunications Services	5,000
7001120	Consulting Services	113,388
7001400	Safety and Environmental	38,600
7018120	Rental Buildings (trailers)	19,300
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	181,963
TOTAL DRILLING - INTANGIBLE		\$2,139,626

TOTAL DRILLING COST

\$2,781,436

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 11/19/2018

Asset Team PERMIAN
 Field PURPLE SAGE;WOL FORMATION: WOLFCAMP D
 Lease/Facility Nemesis 7 WD Fee 4H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	360,000
7019320	Fracturing Services	4,100,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	295,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lghtplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frac Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	459,200
TOTAL COMPLETION - INTANGIBLE		\$6,779,200

TOTAL COMPLETION COST

\$6,794,200

SURFACE EQUIPMENT - TANGIBLE

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

TOTAL SURFACE EQUIPMENT COST

\$ 839,730

ARTIFICIAL LIFT

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

TOTAL ARTIFICIAL LIFT COST

\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

TOTAL COST

TOTAL LOCATION COST	\$ 71,250
TOTAL DRILLING COST	\$ 2,781,436
TOTAL COMPLETIONS COST	\$ 6,794,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,656,116

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

DATE 11/19/2018
 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY MATT HEHSCHE
 ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT H

Asset Team	PERMIAN			
Field	PURPLE SAGE/WOL	FORMATION: WOLFCAMP XY	WILDCAT	EXPLORATION
Lease/Facility	Nemesis 7 WXY Feg SM		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth 19,580 Est Drilling Days _____ Est Completion Days 11

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	128,000
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		592,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	590,850
7019040	Directional Drilling Services	201,000
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	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging/geosteering	19,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019130	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,363
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,900
7018150	Rig Equipment and Misc.	11,363
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,808
7001400	Safety and Environmental	36,360
7018130	Rental Buildings (trailers)	18,180
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	172,125
TOTAL DRILLING - INTANGIBLE		\$2,039,047

TOTAL DRILLING COST

\$2,631,047

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 11/19/2018

Asset Team PERMIAN
Field PURPLE SAGE-WOL FORMATION: WOLF CAMP XY
Lease/Facility Nemesis 7 WXY Fee 5H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	160,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe, drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (Incl drlg, lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (w. BH, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200

TOTAL COMPLETION COST

\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Pumps	-
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	\$ 2,631,047
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$10,117,727

Participant's Approval

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

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

DATE 11/19/2018
 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/WOL FORMATION: WOLFCAMP A WILDCAT EXPLORATION
 Lease/Facility Nemois 7 WA Fee 7H DEVELOPMENT RECOMPLETION
 Location EDDY COUNTY X EXPLOITATION WORKOVER
 Prospect MALAGA

Est Total Depth 19,725 Est Drilling Days Est Completion Days 11

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	128,000
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	55,000
7012550	Drilling Wellhead Equipment	50,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRD Materials	5,000
TOTAL DRILLING - TANGIBLE		592,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	590,850
7019040	Directional Drilling Services	201,000
7019020	Cement and Cementing Service Surface	15,000
7019020	Cement and Cementing Service Intermediate 1	25,000
7019020	Cement and Cementing Service Intermediate 2	40,000
7019020	Cement and Cementing Service Production	60,000
7019140	Mud Fluids & Services	66,600
7012310	Solids Control equipment	41,000
7012020	Bits	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	70,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	
7019150	Mud Logging/steering	19,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	60,000
7001160	Contract Services - Disposal/Non-Hazardous Waste	80,000
7001440	Vacuum Trucks	10,000
7000030	Contract Labor - general	30,000
7000030	Contract Labor - Operations	3,000
7001200	Contract Services - Facilities	10,000
7019300	Well Services - Well Control Services	21,363
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	90,900
7018150	Rig Equipment and Misc.	11,363
7001110	Telecommunications Services	5,000
7001120	Consulting Services	106,808
7001400	Safety and Environmental	36,360
7018120	Rental Buildings (trailers)	18,180
7019310	Coring (sidewalls & analysis)	
7011010	7% Contingency & Taxes	172,125
TOTAL DRILLING - INTANGIBLE		\$2,039,047

TOTAL DRILLING COST

\$2,631,047

COMPLETION - TANGIBLE

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

Asset Team PERMIAN
Field PURPLE SAGE-WOL FORMATION: WOLFCAMP A
Lease/Facility Hermes 7 WA Fee 7H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	350,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	360,000
7019320	Fracturing Services	3,750,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	285,000
7016180	Freight - Truck (haul pipe, drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg, lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. BHT, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200
TOTAL COMPLETION COST		\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	27,950
7012270	Miscellaneous Materials (containment system)	43,230
7008060	SCADA	-
7016180	Freight - truck	-
7001190	Contract Engineering	29,115
7012290	Metering and Instrumentation	237,080
7012290	I&E Materials	-
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	-
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	67,350
7012500	Tanks	193,450
7012100	Heater Treater	17,560
7012540	Flare & Accessories	11,645
7000010	Electrical Labor	29,115
7000010	Mechanical Labor	-
7012480	Rod Pumping unit & Pad	-
7012380	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	\$ 2,631,047
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,117,727

Participant's Approval

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

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

DATE 11/19/2018
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;WOL	FORMATION: WOLFCAMP D	WILDCAT	EXPLORATION
Lease/Facility	Nemesis 7 WD Fee BH		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth 20 181 Est Drilling Days Est Completion Days 11

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	177,800
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		641,800

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	32,500
7019220	Drilling Rig - day work/footage	627,250
7019040	Directional Drilling Services	215,000
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	75,000
7019140	Mud Fluids & Services	68,000
7012310	Solids Control equipment	43,000
7012020	Blts	70,000
7019010	Casing Crew and Services	30,000
7016350	Fuel (Rig)	74,000
7019140	Fuel (Mud)	18,000
7001460	Water (non potable)	25,000
7012350	Water (potable)	5,000
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	20,000
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	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	22,063
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	96,500
7018150	Rig Equipment and Misc.	12,063
7001110	Telecommunications Services	5,000
7001120	Consulting Services	113,388
7001400	Safety and Environmental	38,600
7018120	Rental Buildings (trailers)	19,300
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	181,962
TOTAL DRILLING - INTANGIBLE		\$2,139,625

TOTAL DRILLING COST \$2,781,425

COMPLETION - TANGIBLE

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

Asset Team PERMIAN
 Field PURPLE SAGE;WOL FORMATION: WOLF CAMP D
 Lease/Facility Nemesis 7 WD Fee 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)	350,000
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from drlg)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equip)	360,000
7019320	Fracturing Services	4,100,000
7019330	Perforating	300,000
7019360	Wireline Services	15,000
7001460	Water Hauling & Disposal (frac fluids)	295,000
7016180	Freight - Truck (haul pipe; drlg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. BH, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	459,200
TOTAL COMPLETION - INTANGIBLE		\$6,779,200

TOTAL COMPLETION COST

\$6,794,200

SURFACE EQUIPMENT - TANGIBLE

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

TOTAL SURFACE EQUIPMENT COST

\$ 839,730

ARTIFICIAL LIFT

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

TOTAL ARTIFICIAL LIFT COST

\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

	TOTAL COST
TOTAL LOCATION COST	\$ 71,250
TOTAL DRILLING COST	\$ 2,781,425
TOTAL COMPLETIONS COST	\$ 6,794,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,656,105

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. 20563

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

CASE NO. 20470

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 Base of the Second Bone Spring Sand. The proposed project area is identified by a black-dashed box, and the 6H well is identified by a blue line.

3. Exhibit 7 shows that the structure dips to the East.

4. **Exhibit 8** identifies five wells in the vicinity of the proposed Bone Spring well, shown by a line of cross-section running from A to A'.

1



5. **Exhibit 9** is a stratigraphic cross section hung on the base of the Second Bone Spring Sand. The well logs on the cross-section give a representative sample of the Bone Spring formation in the area. The target zone is identified by the words "Producing Zone" and the shaded area across the cross section, along with a red arrow. The Second Bone Spring Sand thickens slightly from North to South.

6. **Exhibit 10** is a Gross Interval Isochore from the Second Bone Spring Sand Top to Base. The formation thickens slightly from North to South.

7. **Exhibit 11** 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 1-7.

8. Exhibit 11 shows that the structure dips to the East.

9. I have prepared separate exhibits for the proposed Upper Wolfcamp wells and Lower Wolfcamp wells.

10. **Exhibit 12** identifies five 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'.

11. **Exhibit 13** 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 is 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 is relatively consistent from North to South. The Wolfcamp A thickness varies slightly from North to South.

12. **Exhibit 14** is a Gross Interval Isochore of the Wolfcamp to Wolfcamp B. The formation is relatively uniform across the proposed well unit.

13. **Exhibit 15** identifies five 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'.

14. **Exhibit 16** 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 interval thickens from North to South.

15. **Exhibit 17** is a Gross Interval Isochore of the Wolfcamp C2 to D3. The formation is relatively uniform across the proposed well unit.

16. 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.

17. The preferred well orientation in this area is either North/South or East/West. This is because SH_{max} is roughly 45° from North within this unit.

18. **Exhibits 7-17** were prepared by my or under my supervision or compiled from company business records.

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

[Signature page follows]

Matt Baker

Matt Baker

SUBSCRIBED AND SWORN to before me this 25th day of June, 2019 by Matt Baker,
on behalf of Marathon Oil Permian LLC.

Jessica Gorman

Notary Public

My commission expires: 1/23/2023

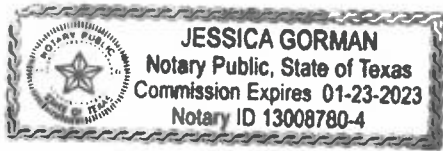
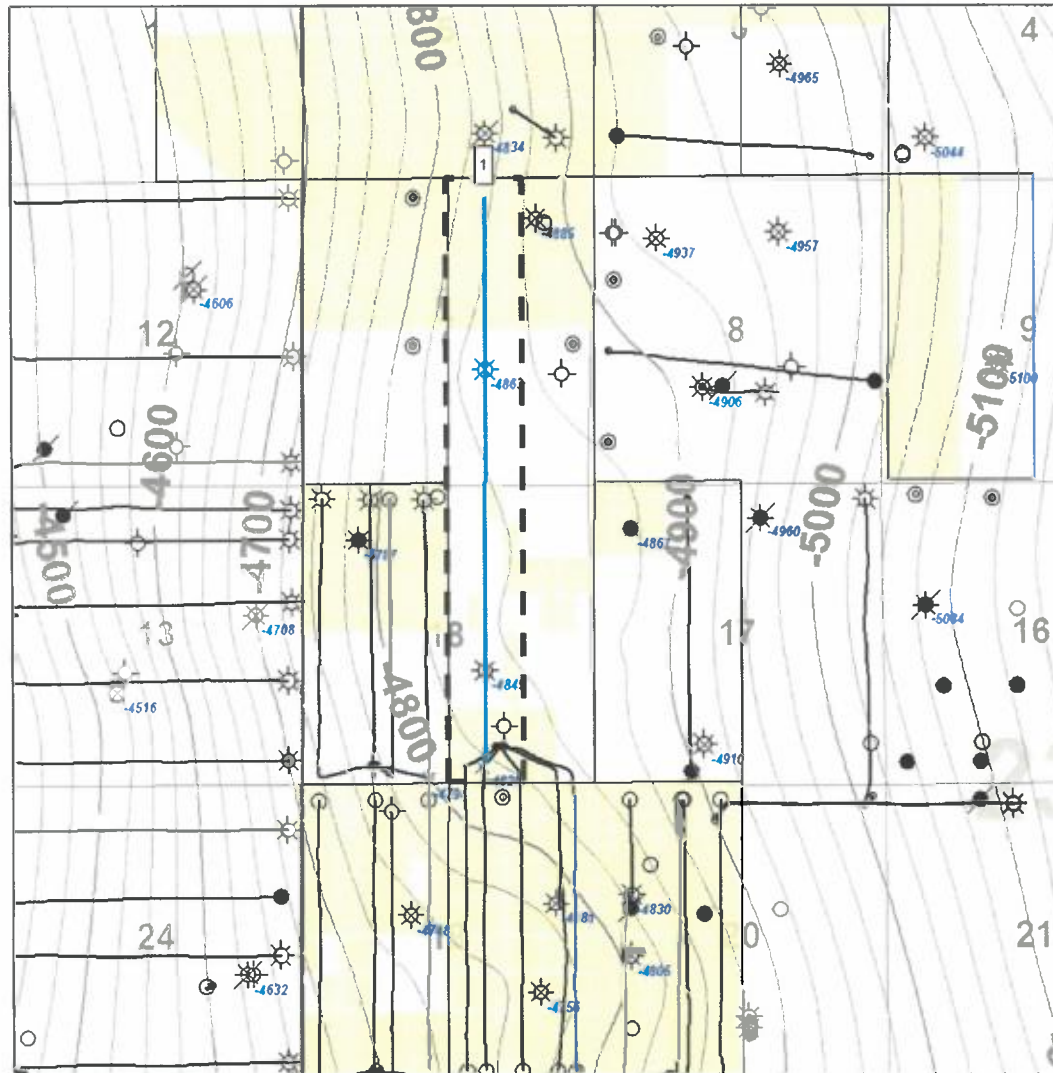


Exhibit 7

7 SB Fee 6H (Bone Spring) Structure Map

Nemesis 7 Fee Unit

Structure Map – Base of 2nd Bone Spring Sand (TVDSS)



1 Nemesis 7 SB Fee 6H

Map Legend

SMSG

MRO – Horizontal Location

MRO Acreage

Project Area

C.I. = 25'

1 mile

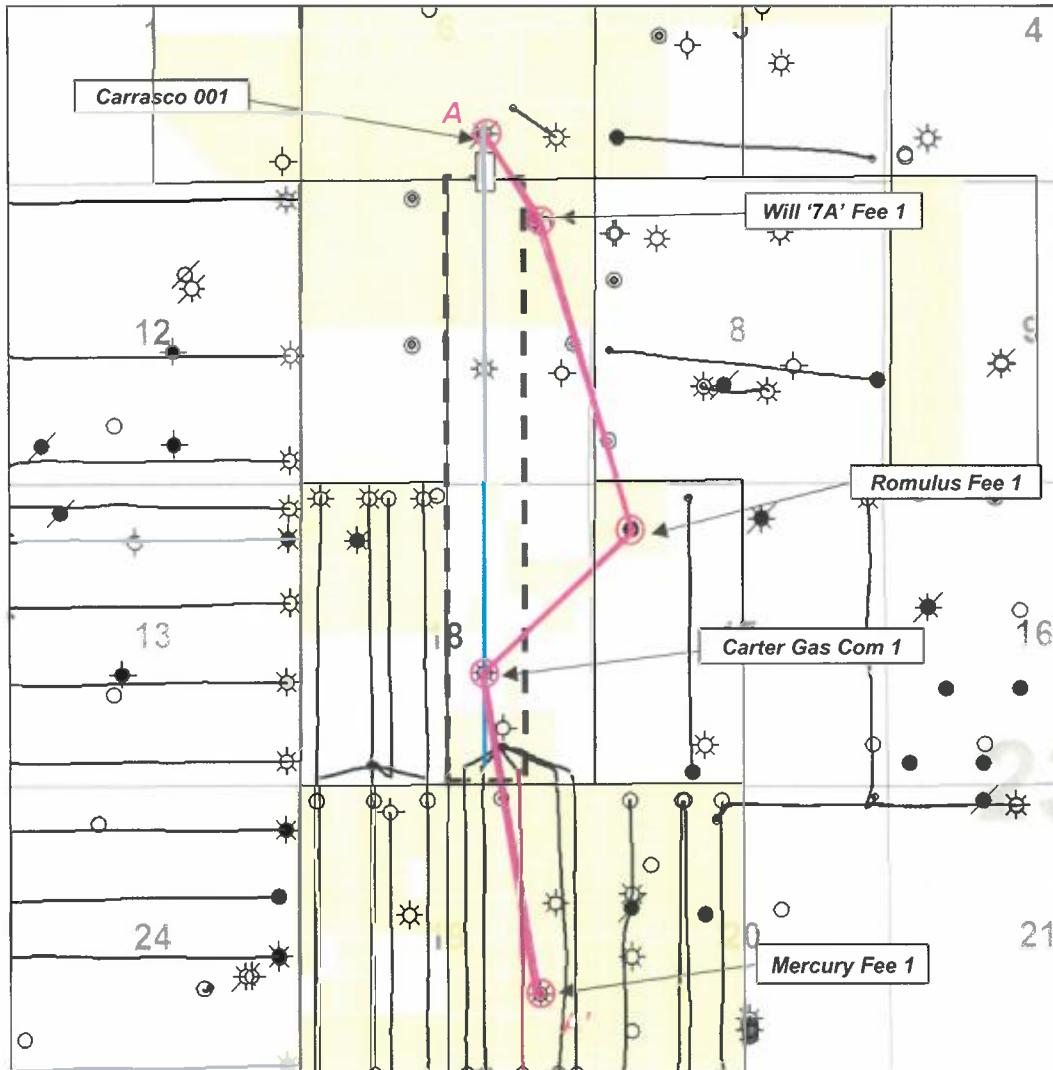


Exhibit 8

7 SB Fee 6H (Bone Spring) Bone Spring Cross-Section Reference Map

Nemesis 7 Fee Unit

Reference Map for Cross Section – 2nd Bone Spring



1 Nemesis 7 SB Fee 6H

Map Legend

SBSG

MRO – Horizontal Location

Cross Section line

MRO Acreage

Project Area

1 mile

54

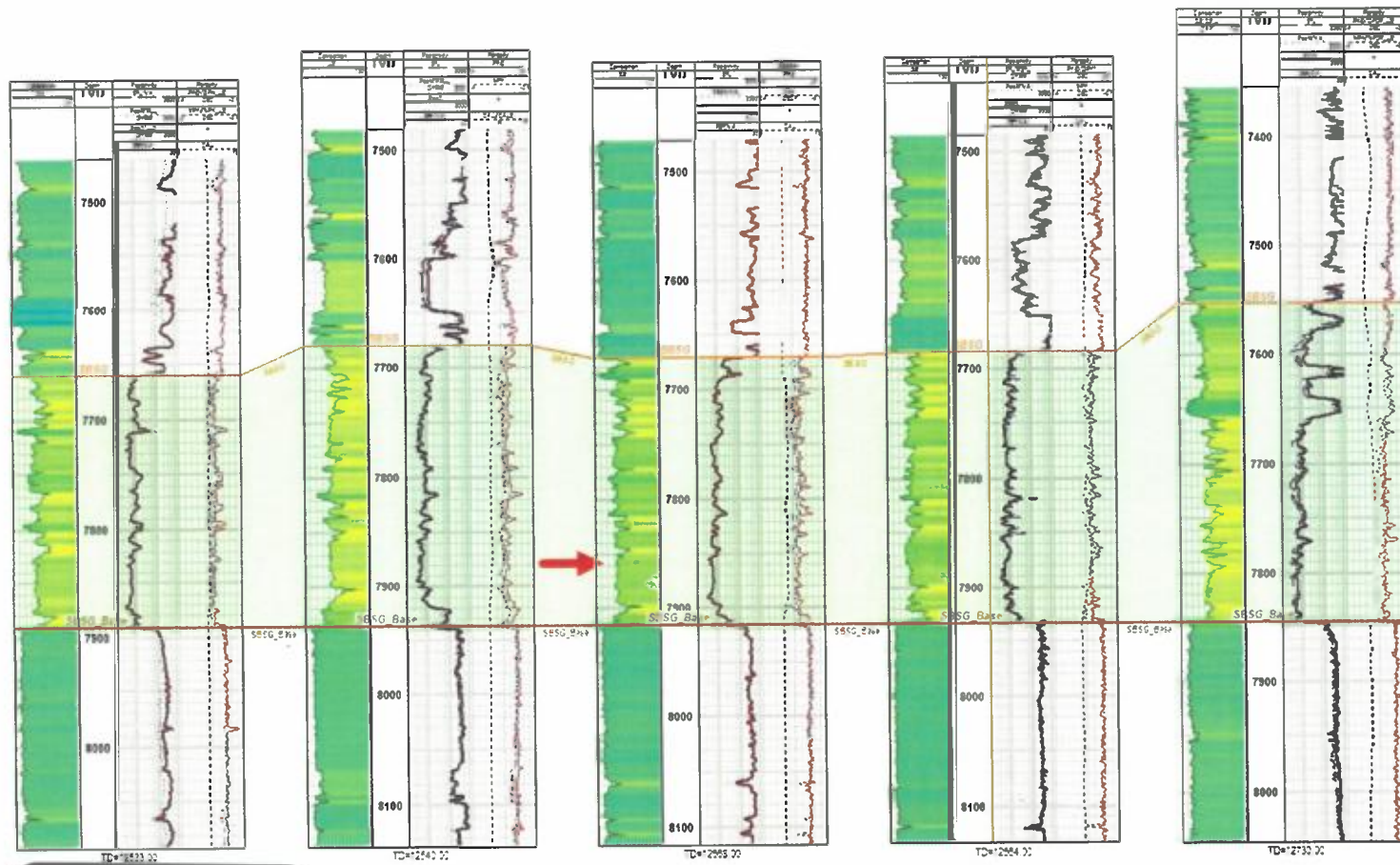
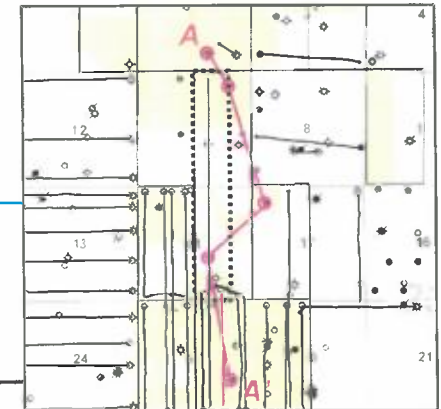
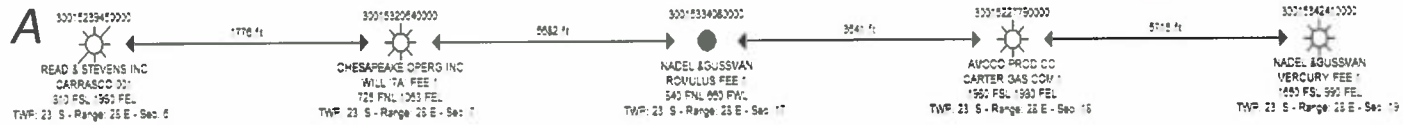


Exhibit 9

7 SB Fee 6H (Bone Spring) Cross Section

Nemesis 7 Fee Unit

Stratigraphic Cross Section (Base 2nd Bone Spring Sand Datum)



EXHIBIT

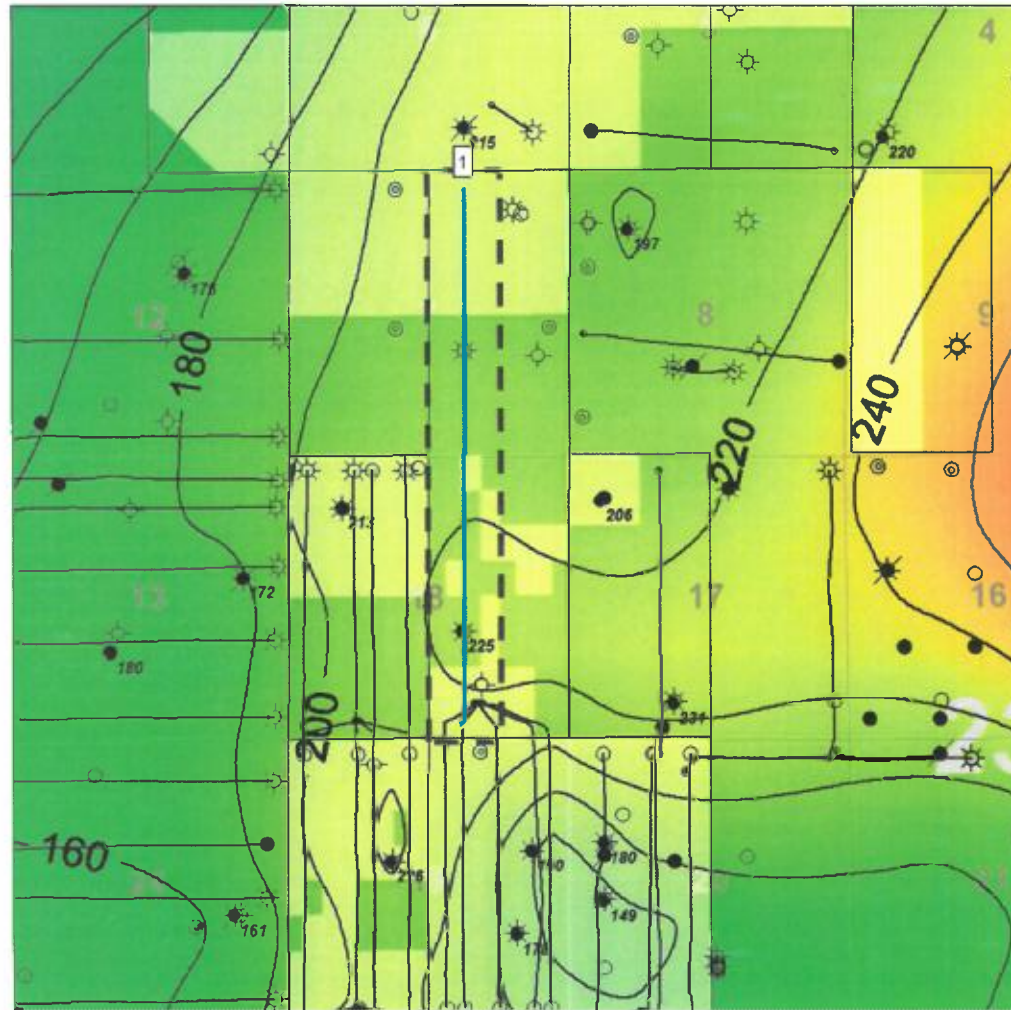
9

Exhibit 10

7 SB Fee 6H (Bone Spring) Isochore

Nemesis 7 Fee Unit

Gross Interval Isochore – 2nd Bone Spring Sand Top to Base



1 Nemesis 7 SB Fee 6H

Map Legend



MRO – Horizontal Location



Cross Section line

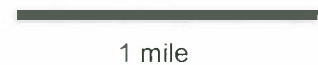


MRO Acreage



Project Area

C.I. = 25'



1 mile

EXHIBIT

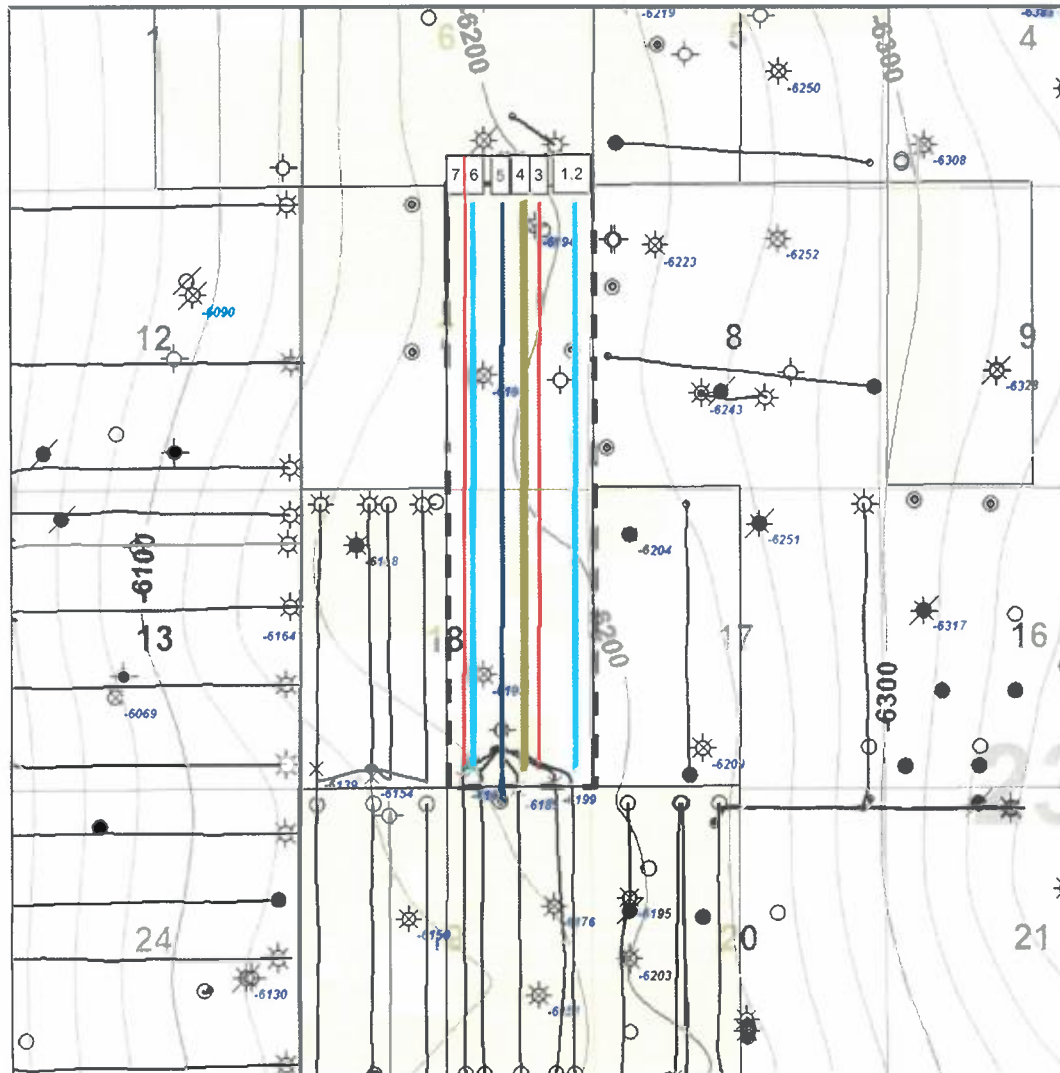
10

Exhibit 11

Wolfcamp Structure Map





Nemesis 7 Fee Unit

Structure Map – Top of Wolfcamp (SSTVD)



- 1 Nemesis 7 WXY Fee 1H
- 2 Nemesis 7 WD Fee 2H
- 3 Nemesis 7 WA Fee 3H
- 4 Nemesis 7 WD Fee 4H
- 5 Nemesis 7 WXY Fee 5H
- 6 Nemesis 7 WD Fee 8H
- 7 Nemesis 7 WA Fee 7H

Map Legend

-  WXY
-  WA
-  WC2
-  WD2

MRO – Horizontal Location



MRO Acreage



Project Area

C.I. = 25'



1 mile

EXHIBIT

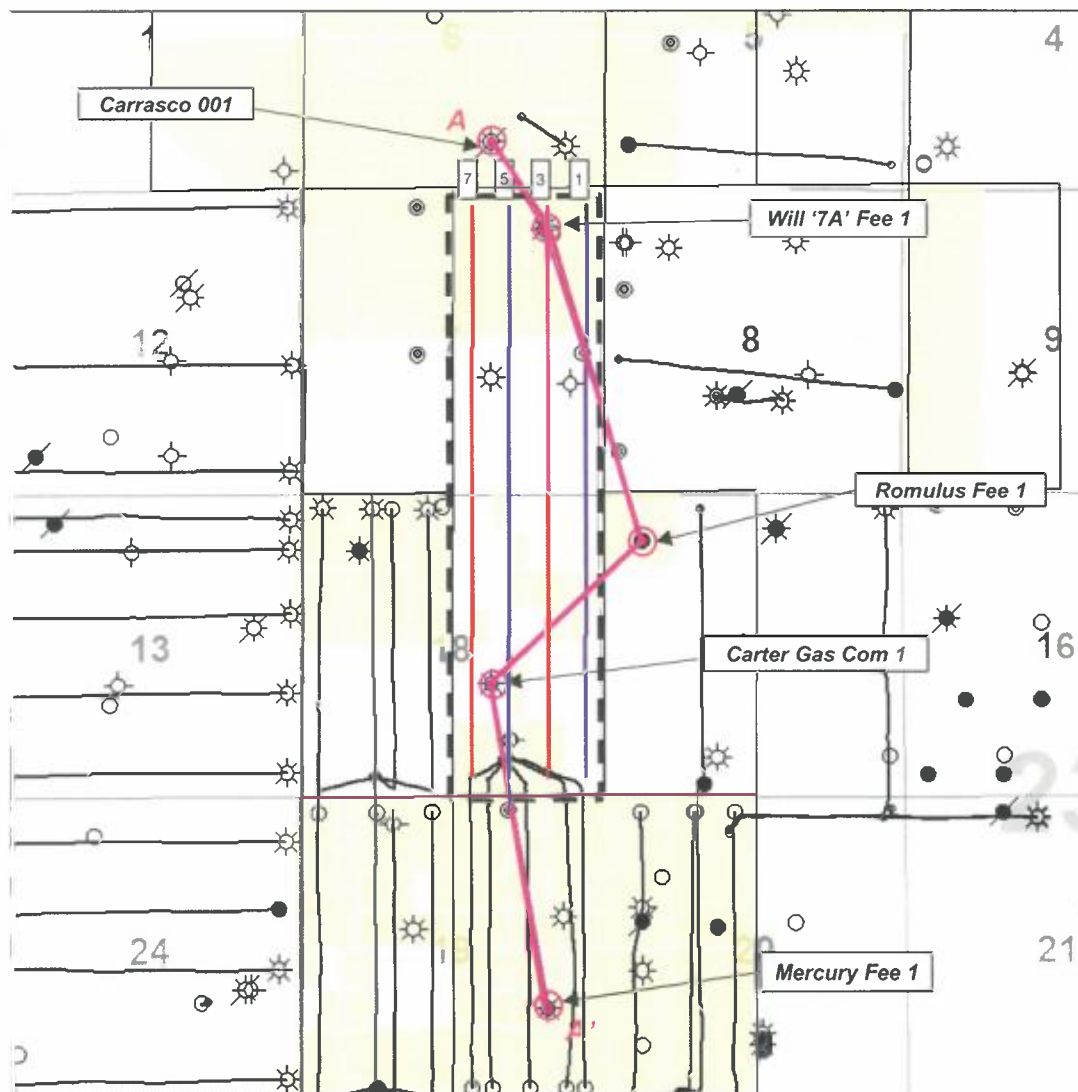
11

Exhibit 12

Upper Wolfcamp Cross-Section Reference Map

Nemesis 7 Fee Unit

Reference Map for Cross Section – Upper Wolfcamp Wells



Map Legend

- WXY
- WA
- WC2
- WD2
- MRO – Horizontal Location
- Cross Section line
- MRO Acreage
- Project Area

1 mile

EXHIBIT

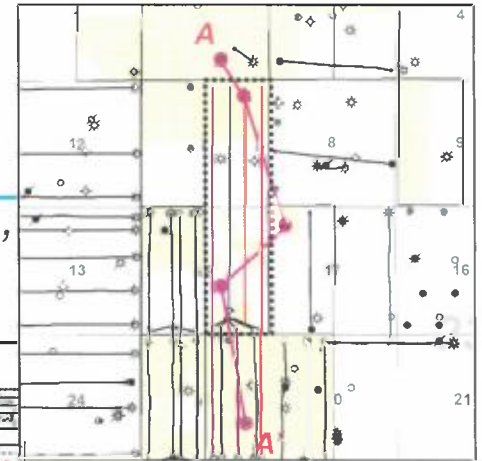
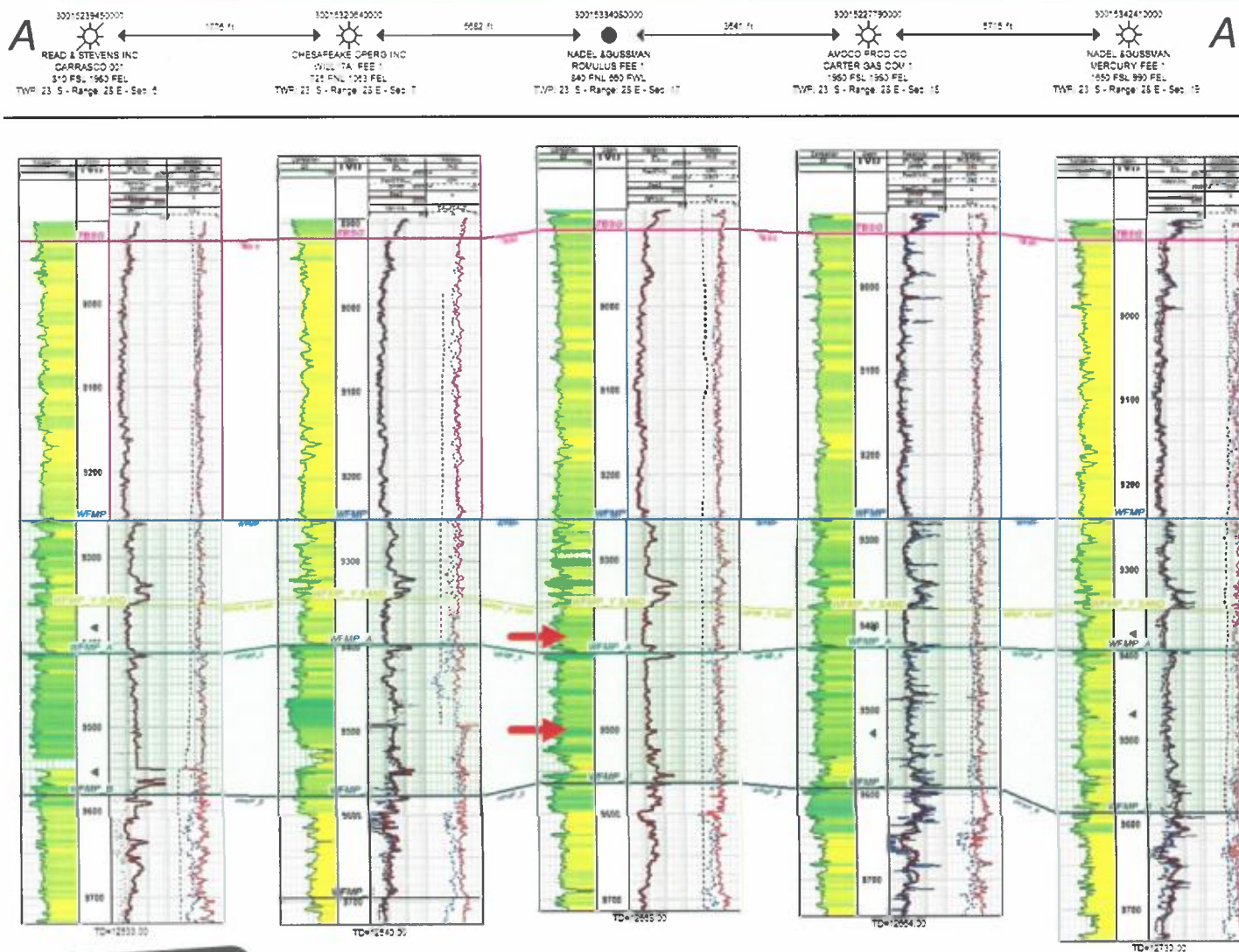
12

Exhibit 13

Upper Wolfcamp Cross Section

Nemesis 7 Fee Unit

Stratigraphic Cross Section (Top Wolfcamp Datum)



Wolfcamp Y-Sand
thickness relatively
consistent from North to
South

Wolfcamp A thickness
varies slightly from
North to South

Producing
Zone

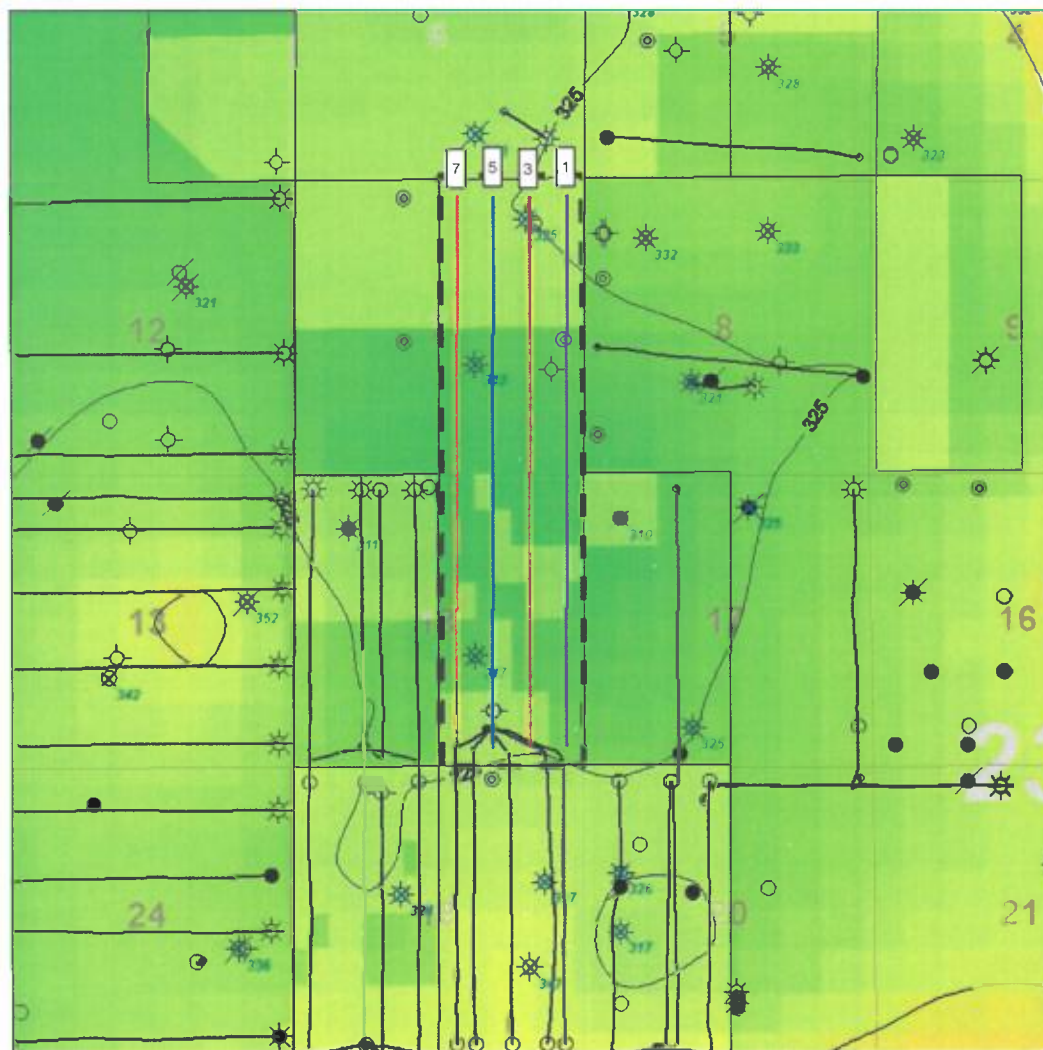


Exhibit 14

Upper Wolfcamp Isochore

Nemesis 7 Fee Unit

Gross Interval Isochore – Wolfcamp to Wolfcamp B



Map Legend

WXY

WA

WC2

WD2

MRO – Horizontal Location

Cross Section line



MRO Acreage



Project Area

C.I. = 25'



1 mile

1 Nemesis 7 WXY Fee 1H

3 Nemesis 7 WA Fee 3H

5 Nemesis 7 WXY Fee 5H

7 Nemesis 7 WA Fee 7H

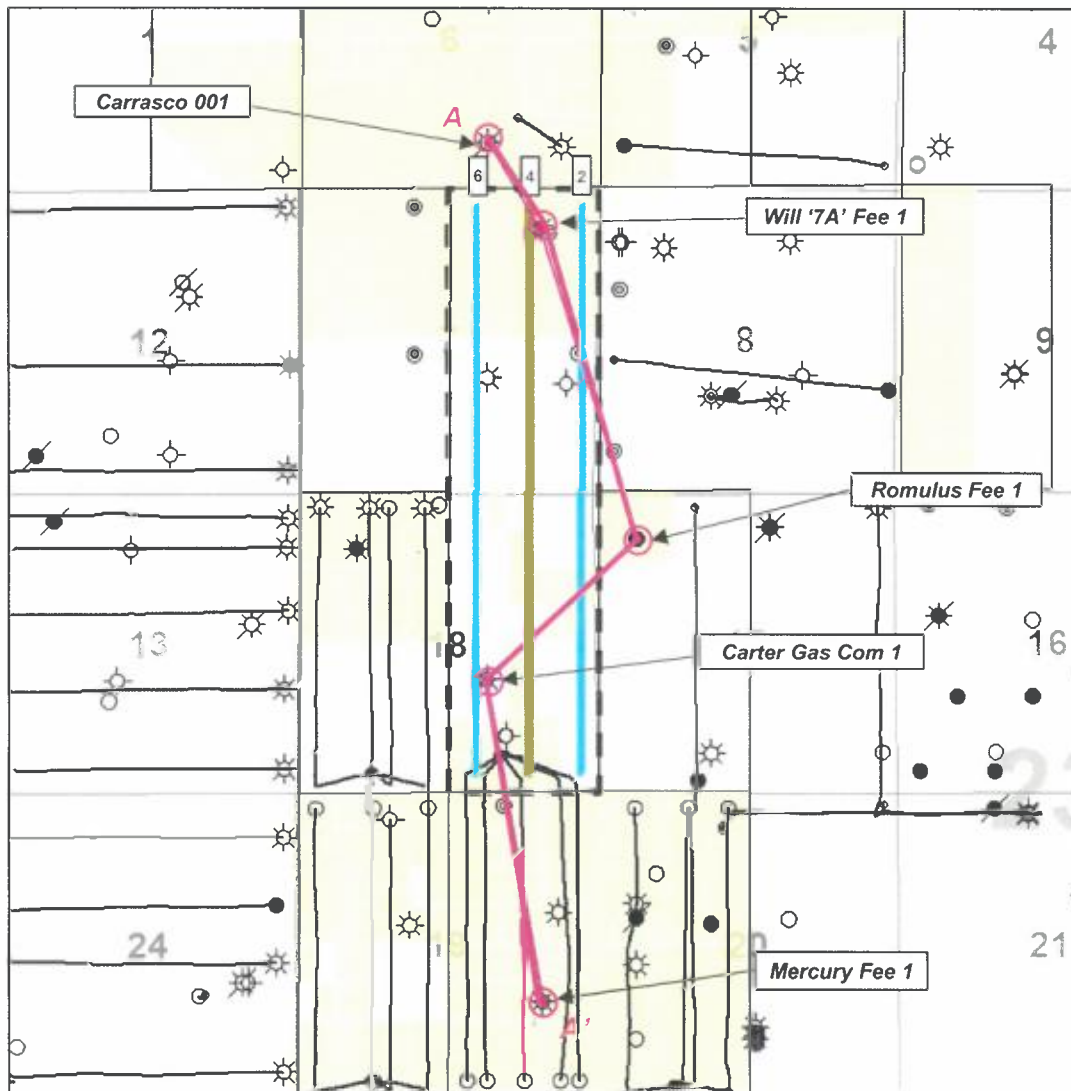


Exhibit 15

Lower Wolfcamp Cross-Section Reference Map

Nemesis 7 Fee Unit

Reference Map for Cross Section – Lower Wolfcamp Wells



Map Legend

- WXY
- WA
- WC2
- WD2

MRO – Horizontal Location

- Cross Section line



MRO Acreage



Project Area



1 mile



MarathonOil

EXHIBIT

15

tabbles

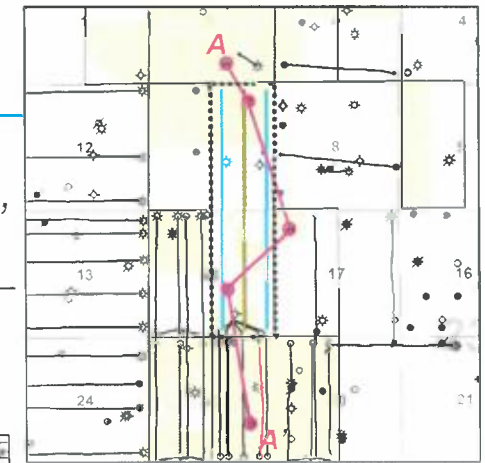
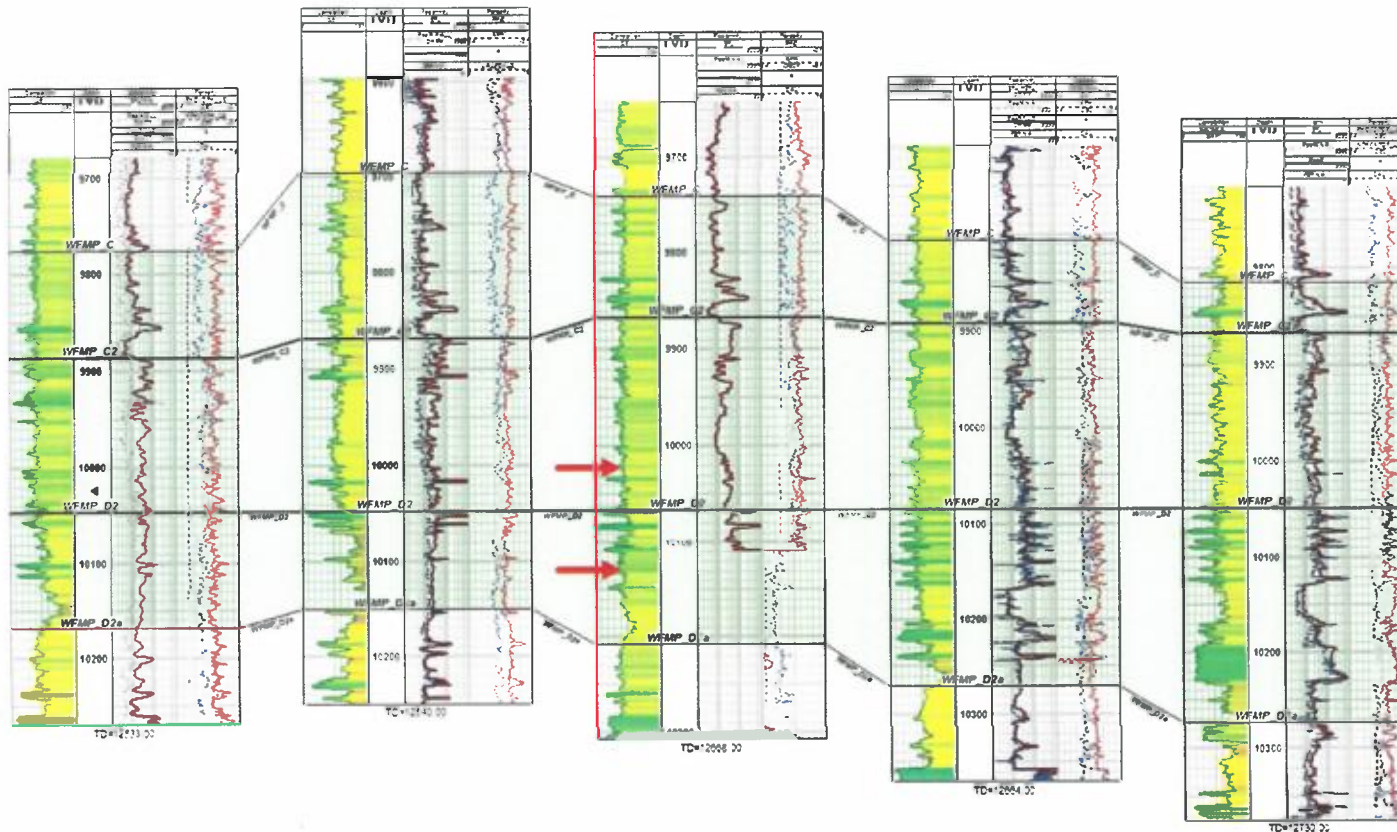
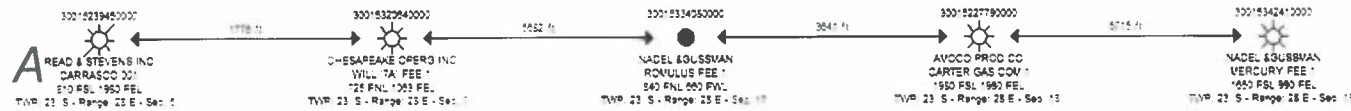
121

Exhibit 16

Lower Wolfcamp Cross Section

Nemesis 7 Fee Unit

Stratigraphic Cross Section (Wolfcamp D2 Datum)



Wolfcamp C2 interval thickens from North to South

Wolfcamp D2 interval thickens from North to South

Producing Zone

162

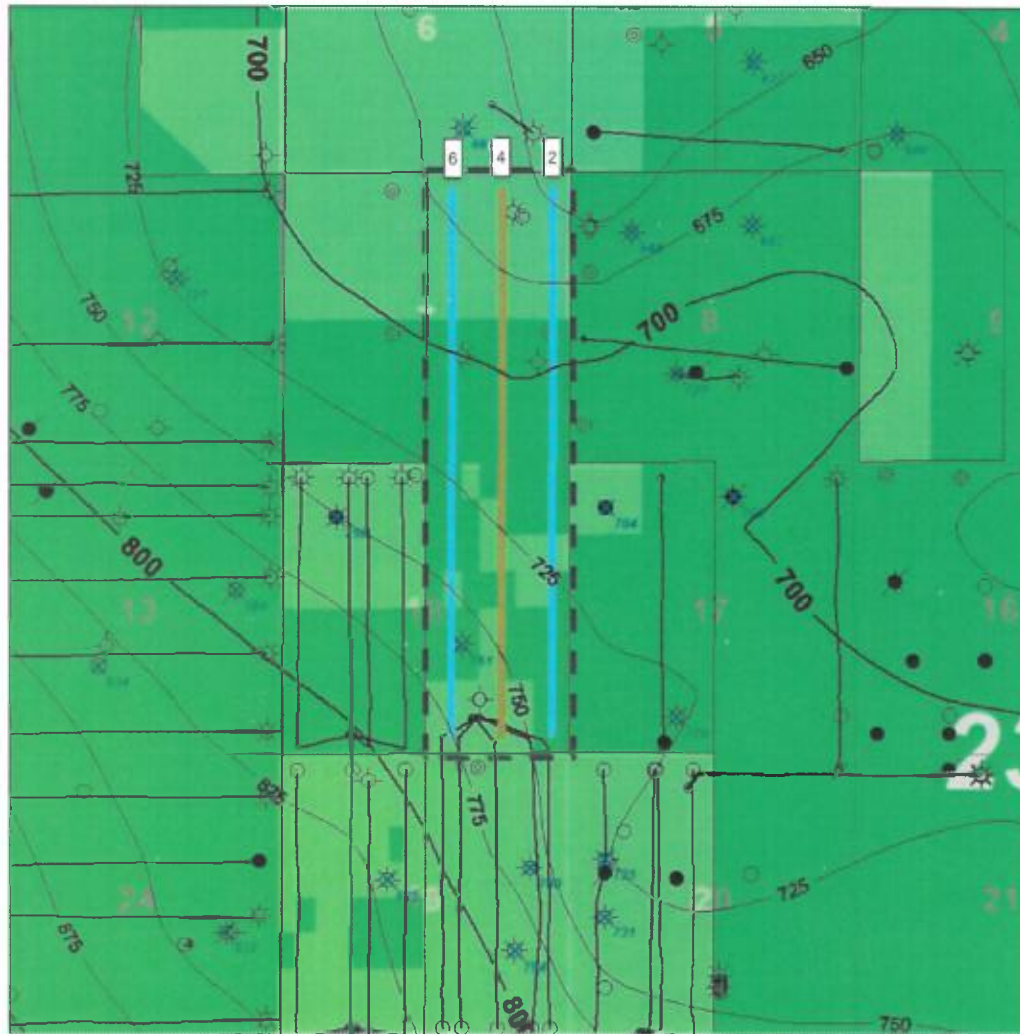


Exhibit 17

Lower Wolfcamp Isochore

Nemesis 7 Fee Unit

Gross Interval Isochore – Wolfcamp C2 to Wolfcamp D3



Map Legend

- WXY
- WA
- WC2
- WD2

MRO – Horizontal Location

- Cross Section line



MRO Acreage



Project Area



1 mile

2 Nemesis 7 WD Fee 2H

4 Nemesis 7 WD Fee 4H

6 Nemesis 7 WD Fee 8H

63



Exhibit 18

Notice Affidavit

**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. 20563
(Nemesis)**

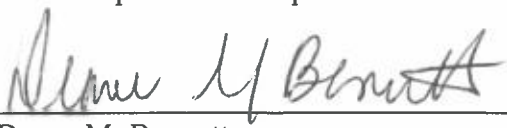
**APPLICATION OF MARATHON OIL PERMIAN LLC FOR COMPUSLORY
POOLING, EDDY COUNTY, NEW MEXICO.**

**CASE NO. 20470
(Nemesis)**

AFFIDAVIT

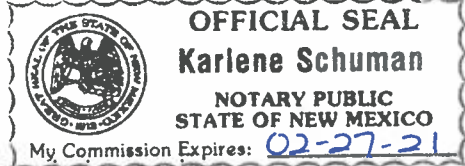
STATE OF NEW MEXICO)
) ss.
COUNTY OF BERNALILLO)

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 24th day of June, 2019 by Deana M. Bennett.



My commission expires: _____



Notary Public



Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
04/12/2019



Firm Mailing Book ID: 165169

81363 -
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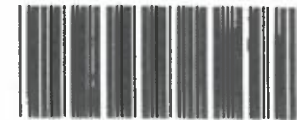
Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0058 0646 76	Chevron U.S.A. Inc. Attn: Lois Krenck 1400 Smith St. Houston TX 77002	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
2	9314 8699 0430 0058 0646 83	Fasken Land & Minerals, Ltd. 6101 Holiday Hill Rd. Midland TX 79707	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
3	9314 8699 0430 0058 0646 90	OXY USA WTP Limited Partnership 5 Greenway Plaza, Suite 110 Houston TX 77046	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
4	9314 8699 0430 0058 0647 06	Mewbourne Oil Company P.O. Box 7698 Tyler TX 75701	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
5	9314 8699 0430 0058 0647 13	David Petroleum Corp. 116 W. 1st Street Roswell NM 88203	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
6	9314 8699 0430 0058 0647 20	Chesapeake Exploration, L.L.C. P.O. Box 18496	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
7	9314 8699 0430 0058 0647 37	NBI Properties, Inc. P.O. Box 4470	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
8	9314 8699 0430 0058 0647 44	Tierra Oil Company, LLC P.O. Box 700968 San Antonio TX 78270	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
9	9314 8699 0430 0058 0647 51	Chalcam Exploration, LLC 403 Tierra Berrenda Roswell NM 88201	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
10	9314 8699 0430 0058 0647 75	MRC Permian Company One Lincoln Centre 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
11	9314 8699 0430 0058 0647 82	State of New Mexico, Dept. of Transportation P.O. Box 1148 Santa Fe NM 87501	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
12	9314 8699 0430 0058 0647 99	Santa Elena Minerals, LP P.O. Box 2063 Midland TX 79702	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
13	9314 8699 0430 0058 0648 05	JPH Holdings, LP 4400 Arcady Dallas TX 75205	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
14	9314 8699 0430 0058 0648 12	Jeri Alexander Magnum and First Financial Trust as Trustees of the Carol Gibson Trust P.O. Box 701 Abilene TX 79604	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice



US

Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877
Type of Mailing: CERTIFIED MAIL
04/12/2019



Firm Mailing Book ID: 165169

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
15	9314 8699 0430 0058 0648 29	Jeri Alexander Magnum and First Financial Trust Trustees of the Cynthia Rhodes Trust P.O. Box 701 Abilene TX 79604	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
16	9314 8699 0430 0058 0648 36	Sally Guitar 10 Woodhaven Circle Abilene TX 79605	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
17	9314 8699 0430 0058 0648 43	Melissa Gray a/k/a Melissa McGee 2801 S. 25th Street Abilene TX 79605	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
18	9314 8699 0430 0058 0648 50	Sharon Guitar Ellis P.O. Box 469 Valleyford WA 99036	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
19	9314 8699 0430 0058 0648 67	Paul B. Hofer, III and John M. Hofer, co-Trustees of the Laura Jean Hofer Trust 11248 S. Turner Avenue Ontario CA 91761	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
20	9314 8699 0430 0058 0648 74	Murchison-Guitar Family LP 20405 Vintage Dr. Red Bluff CA 96080	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
21	9314 8699 0430 0058 0648 81	Barbara Lee Backman, Inc. 510 W. Riverside Avenue Spokane WA 99201	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
22	9314 8699 0430 0058 0648 98	Truchas Peaks, LLC 110 Louisiana, Suite 500 Midland TX 79701	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
23	9314 8699 0430 0058 0649 04	Guitar Galusha, LP 1202 Sylvan Avenue Abilene TX 79605	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
24	9314 8699 0430 0058 0649 11	Lesli Guitar Nichols 6305 W. County Road 34 Knott TX 79748	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
25	9314 8699 0430 0058 0649 28	John Kelly Guitar 325 Woodland Drive Abilene TX 79603	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
26	9314 8699 0430 0058 0649 35	Woods Dickens Ranch, LP 461 8th Street Lubbock TX 79416	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
27	9314 8699 0430 0058 0649 42	Kelly Woods Leach 4610 8th Street Lubbock TX 79416	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
28	9314 8699 0430 0058 0649 59	Jack G. Woods, Jr. P.O. Box 1159 Abilene TX 79604	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
29	9314 8699 0430 0058 0649 66	Caren G. Lucas a/k/a Caren Gall Lucas Machell P.O. Box 90621 Austin TX 78709	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice

APR 12 2019

66

Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877

Type of Mailing: CERTIFIED MAIL
04/12/2019



Firm Mailing Book ID: 165169

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
30	9314 8699 0430 0058 0649 73	Caki Family Limited Partnership 3721 Pallos Verdas Dallas TX 75229	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
31	9314 8699 0430 0058 0649 80	Guitar Land & Cattle, LP 451 Pine Street, Suite 352 Abilene TX 79601	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
32	9314 8699 0430 0058 0649 97	Margaret Ann Guitar and John Alexander Guitar, the Earl B. Guitar Jr. Bypass Trust P.O. Box 748 Abilene TX 79604	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
33	9314 8699 0430 0058 0650 00	Judy Guitar Uhey, LLC P.O. Box 632 Elizabethtown KY 42702	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
34	9314 8699 0430 0058 0650 17	Caren Gall Machell, trustee of the Caren Gall Machell Exempt Trust P.O. Box 90621 Austin TX 79709	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
35	9314 8699 0430 0058 0650 24	Crownrock Minerals, LP P.O. Box 51933 Midland TX 79710	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
36	9314 8699 0430 0058 0650 31	William J. Beesing 950 Etnyre Terrace Oregon IL 61061	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
37	9314 8699 0430 0058 0650 48	Estate of Peggy Lu Beesing Vorel c/o Cheryl M. Ballard 15701 Wood Creek Lane Edmond OK 73013	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
38	9314 8699 0430 0058 0650 55	Dashea Beesing Gelnar 7315 Nichols Rd. Oklahoma City OK 73120	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
39	9314 8699 0430 0058 0650 62	Estates of Phyllis Jean Peal & Roger C. Peal c/o Sally Ann Cundiff 405 E. 10th Street Rolla MO 65401	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
40	9314 8699 0430 0058 0650 79	Lewis C. Sawyer Loving Trust 14390 E. Marina Drive, #209 Aurora CO 80014	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
41	9314 8699 0430 0058 0650 86	Sandra M. Sawyer & the Estate of Edward A. Sawyer P.O. Box 6452 Rochester MN 55903	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
42	9314 8699 0430 0058 0650 93	Estate of Delta L. Sawyer c/o Lewis C. Sawyer 14390 E. Marina Drive, #209 Aurora CO 80014	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
43	9314 8699 0430 0058 0651 09	Estate of Duane Housouer a/k/a Douglas Duane Housouer 3836 Azure Lane Addison TX 75001	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice

APR 12 2019

67

Karlene Schuman
Modrall Sperling Roehl Harris & Sisk P.A.
500 Fourth Street, Suite 1000
Albuquerque NM 87102

PS Form 3877
Type of Mailing: CERTIFIED MAIL
04/12/2019



Firm Mailing Book ID: 165169

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
44	9314 8699 0430 0058 0651 16	Devon Energy Production Company, L.P. 333 West Sheridan Avenue Oklahoma City OK 73102	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
45	9314 8699 0430 0058 0651 23	Oxy USA WTP Limited Partnership 5 Greenway Plaza, Suite 110 Houston TX 77046	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
46	9314 8699 0430 0058 0651 30	Stryker Energy, LLC P.O. Box 53448 Houston TX 77052	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
47	9314 8699 0430 0058 0651 47	Dick Jackson 411 N. Maple Ave. Mountain Grove MO 65711	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
48	9314 8699 0430 0058 0651 54	Marathon Oil Permian, LLC 5555 San Felipe Street Houston TX 77057	\$1.30	\$3.50	\$1.60	\$0.00	81363-Nemesis Notice
Totals:			\$62.40	\$168.00	\$76.80	\$0.00	
			Grand Total:		\$307.20		

List Number of Pieces Listed by Sender	Total Number of Pieces Received at Post Office	Postmaster: Name of receiving employee	Dated:
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48

APR 12 2019

USPS Article Number	Date Created	Name 1	Name 2	Address	City	State	Zip	Mailing Status	Sent via Options	Mail Delivery Date
9314869904300058065154	2019-04-12 12:53 PM	Marathon Oil Permian, LLC		5555 San Felipe Street	Houston	TX	77057	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058065147	2019-04-12 12:53 PM	Dick Jackson		411 N. Maple Ave.	Houston	MO	65211	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065130	2019-04-12 12:53 PM	Stryker Energy, LLC		P.O. Box 53448	Houston	TX	77052	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065116	2019-04-12 12:53 PM	Devon Energy Production Company, L.P.		5 Greenway Plaza, Suite 110	Houston	TX	77046	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065109	2019-04-12 12:53 PM	Estate of Duane Housouer a/k/a Douglas Duane		3333 West Sheridan Avenue	Oklahoma City	OK	73102	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058065093	2019-04-12 12:53 PM	Estate of Delta L. Sawyer c/o Lewis C. Sawyer	Housouer	3836 Azure Lane	Addison	TX	75001	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065086	2019-04-12 12:53 PM	Estate of Edward A. Sandra M. Sawyer & the Estate of Edward A.		14390 E. Marina Drive, #209	Aurora	CO	80014	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065079	2019-04-12 12:53 PM	Lewis C. Sawyer Living Trust	Sawyer	P.O. Box 6452	Rochester	MN	55903	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065062	2019-04-12 12:53 PM	Estate of Phyllis Jean Peel & Roger C. Peel	c/o Sally Ann Cundiff	14390 E. Marina Drive, #209	Aurora	CO	80014	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065055	2019-04-12 12:53 PM	Estate of Peggy Lu Beesing Vorel	c/o Cheryl M. Ballard	405 E. 10th Street	Rolla	MO	65401	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065048	2019-04-12 12:53 PM	Dasha Beesing Gelhar		7315 Wood Creek Lane	Oklahoma City	OK	73120	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058065031	2019-04-12 12:53 PM	William J. Beesing		950 Emyre Terrace	Edmond	OK	73013	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058065024	2019-04-12 12:53 PM	Crownrock Minerals, LP		P.O. Box 51933	Midland	IL	61061	Delivered	Return Receipt - Electronic, Certified Mail	04-17-2019
9314869904300058065017	2019-04-12 12:53 PM	Caren Gail Machell, trustee of the Caren Gail	Machell Exempt Trust	P.O. Box 90621	Austin	TX	79710	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058065000	2019-04-12 12:53 PM	Judy Guitart Uhry, LLC		P.O. Box 632	Elizabethtown	TX	79709	Delivered	Return Receipt - Electronic, Certified Mail	04-29-2019
9314869904300058064997	2019-04-12 12:53 PM	Margaret Ann Guitart and John Alexander Guitart,	the Earl B. Guitart Jr. Bypass Trust	P.O. Box 748	Abilene	TX	79604	Delivered	Return Receipt - Electronic, Certified Mail	04-18-2019
9314869904300058064980	2019-04-12 12:53 PM	Guitar Land & Cattle, LP		451 Pine Street, Suite 352	Abilene	TX	79601	Delivered	Return Receipt - Electronic, Certified Mail	04-18-2019
9314869904300058064973	2019-04-12 12:53 PM	Cali Family Limited Partnership		3721 Pallos Verdas	Dallas	TX	75229	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064966	2019-04-12 12:53 PM	Caren G. Lucas a/k/a Caren Gail Lucas Machell		P.O. Box 90621	Austin	TX	78709	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064959	2019-04-12 12:53 PM	Jack G. Woods, Jr.		P.O. Box 1159	Abilene	TX	79604	Delivered	Return Receipt - Electronic, Certified Mail	04-29-2019
9314869904300058064942	2019-04-12 12:53 PM	Kelly Woods Leach		4610 8th Street	Lubbock	TX	79416	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064935	2019-04-12 12:53 PM	Wood's Dickens Ranch, LP		461 8th Street	Lubbock	TX	79416	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064928	2019-04-12 12:53 PM	John Kelly Guitar		325 Woodland Drive	Abilene	TX	79603	Lost	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064911	2019-04-12 12:53 PM	Lesli Guitar Nichols		6305 W. County Road 34	Abilene	TX	79603	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064904	2019-04-12 12:53 PM	Guitar Galusha, LP		1202 Sylvan Avenue	Abilene	TX	79605	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064898	2019-04-12 12:53 PM	Touhas Peaks, LLC		110 Louisiana, Suite 500	Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064881	2019-04-12 12:53 PM	Barbara Lee Buckman, Inc.		510 W. Riverside Avenue	Spokane	WA	99201	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064874	2019-04-12 12:53 PM	Murchison-Guitar Family LP		2005 Vintage Dr.	Red Bluff	CA	96080	Delivered	Return Receipt - Electronic, Certified Mail	04-19-2019
9314869904300058064867	2019-04-12 12:53 PM	Paul B. Hofer, III and John M. Hofer, co-Trustees	of the Laura Jean Hofer Trust	P.O. Box 469	Ontario	CA	91761	Delivered	Return Receipt - Electronic, Certified Mail	04-17-2019
9314869904300058064850	2019-04-12 12:53 PM	Sharon Guitar Ellis		11348 S. Turner Avenue	Vallejo	CA	94591	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064843	2019-04-12 12:53 PM	Melissa Gray a/k/a Melissa McGee		2801 S. 25th Street	Abilene	TX	79605	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064836	2019-04-12 12:53 PM	Sally Guitar		10 Woodhaven Circle	Abilene	TX	79605	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064829	2019-04-12 12:53 PM	Jeri Alexander Magnum and First Financial Trust	Trustees of the Cynthia Rhodes Trust as Trustees of the Carol Gibson Trust	P.O. Box 701	Abilene	TX	79604	Lost	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064812	2019-04-12 12:53 PM	Jeri Alexander Magnum and First Financial Trust		P.O. Box 701	Abilene	TX	79604	Lost	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064805	2019-04-12 12:53 PM	JPH Holdings, LP		4400 Arcady	Dallas	TX	75205	Lost	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064799	2019-04-12 12:53 PM	Santa Elena Minerals, LP		P.O. Box 2063	Midland	TX	79702	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064782	2019-04-12 12:53 PM	State of New Mexico, Dept of Transportation		P.O. Box 1148	Santa Fe	NM	87501	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064775	2019-04-12 12:53 PM	MRC Permian Company	One Lincoln Centre	5400 LBJ Freeway, Suite 1500	Dallas	TX	75240	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064751	2019-04-12 12:53 PM	Chalkam Exploration, LLC		403 Tierra Bonenda	Roswell	NM	88201	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064744	2019-04-12 12:53 PM	Terra Oil Company, LLC		P.O. Box 70098	San Antonio	TX	78270	Delivered	Return Receipt - Electronic, Certified Mail	04-18-2019
9314869904300058064737	2019-04-12 12:53 PM	NBI Properties, Inc.		P.O. Box 4470	Tulsa	OK	74159	Delivered	Return Receipt - Electronic, Certified Mail	04-17-2019
9314869904300058064720	2019-04-12 12:53 PM	Chesapeake Exploration, L.L.C.		P.O. Box 18496	Oklahoma City	OK	73154	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064713	2019-04-12 12:53 PM	David Petroleum Corp.		116 W. 1st Street	Roswell	NM	88203	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064706	2019-04-12 12:53 PM	Mewbourne Oil Company		P.O. Box 7698	Tyler	TX	75701	Delivered	Return Receipt - Electronic, Certified Mail	04-16-2019
9314869904300058064690	2019-04-12 12:53 PM	QXY USA WTP Limited Partnership		5 Greenway Plaza, Suite 110	Houston	TX	77046	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064683	2019-04-12 12:53 PM	Fadden Land & Minerals, Ltd.	Attn: Lois Krenak	6101 Holiday Hill Rd.	Midland	TX	79707	Delivered	Return Receipt - Electronic, Certified Mail	04-15-2019
9314869904300058064676	2019-04-12 12:53 PM	Chevron U.S.A. Inc.		1400 Smith St.	Houston	TX	77002	Delivered	Return Receipt - Electronic, Certified Mail	04-17-2019

CARLSBAD
CURRENT-ARGUS

AFFIDAVIT OF PUBLICATION

Ad No.
0001283499

MODRALL SPERLING
PO BOX 2168

ALBUQUERQUE NM 87103

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

04/18/19



Legal Clerk

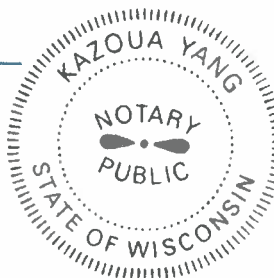
Subscribed and sworn before me this
18th of April 2019.



State of WI, County of Brown
NOTARY PUBLIC



My Commission Expires



Ad#:0001283499
P O : 0001283499
of Affidavits :0.00

CASE No. 20470: Notice to all affected parties, as well as the heirs and devisees of JERI ALEXANDER MAGNUM AND FIRST FINANCIAL TRUST TRUSTEES OF THE CYNTHIA RHODES TRUST; SALLY GUITAR; MELISSA GRAY A/K/A MELISSA MCGEE; SHARON GUITAR ELLIS; PAUL B. HOFER, III AND JOHN M. HOFER, CO-TRUSTEES OF THE LAURA JEAN HOFER TRUST; MURCHISON-GUITAR FAMILY LP; BARBARA LEE BACKMAN, INC.; TRUCHAS PEAKS, LLC; GUITAR GALUSHA, LP; LESLI GUITAR NICHOLS; JOHN KELLY GUITAR; WOODS DICKENS RANCH, LP; KELLY WOODS LEACH; JACK G. WOODS, JR.; CAREN G. LUCAS A/K/A CAREN GALL LUCAS MACHELL; CAKI FAMILY LIMITED PARTNERSHIP; GUITAR LAND & CATTLE, LP; MARGARET ANN GUITAR AND JOHN ALEXANDER GUITAR, THE EARL B. GUITAR JR. BYPASS TRUST; JUDY GUITAR UHEY, LLC; CAREN GALL MACHELL, TRUSTEE OF THE CAREN GALL MACHELL EXEMPT TRUST; CROWNROCK MINERALS, LP; WILLIAM J. BEESING; ESTATE OF PEGGY LU BEESING VOREL C/O CHERYL M. BALLARD; DASHEA BEESING GELNAR; ESTATES OF PHYLLIS JEAN PEAL & ROGER C. PEAL C/O SALLY ANN CUNDIFF; LEWIS C. SAWYER LOVING TRUST; SANDRA M. SAWYER & THE ESTATE OF EDWARD A. SAWYER; ESTATE OF DELTA L. SAWYER C/O LEWIS C. SAWYER; ESTATE OF DUANE HOUSOUER A/K/A DOUGLAS DUANE HOUSOUER; DEVON ENERGY PRODUCTION COMPANY, L.P.; OXY USA WTP LIMITED PARTNERSHIP; STRYKER ENERGY, LLC; DICK JACKSON 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 E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Nemesis 7 WXY Fee 1H; Nemesis 7 WA Fee 3H; Nemesis 7 WXY Fee 5H; Nemesis 7 WA Fee 7H; Nemesis 7 WD Fee 2H; Nemesis 7 WD Fee 4H; Nemesis 7 WD Fee 8H 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 2.5 miles Northwest of Loving, New Mexico.

CASE No. _____: Notice to all affected parties, as well as the heirs and devisees of JERI ALEXANDER MAGNUM AND FIRST FINANCIAL TRUST TRUSTEES OF THE CYNTHIA RHODES TRUST; SALLY GUITAR; MELISSA GRAY A/K/A MELISSA MCGEE; SHARON GUITAR ELLIS; PAUL B. HOFER, III AND JOHN M. HOFER, CO-TRUSTEES OF THE LAURA JEAN HOFER TRUST; MURCHISON-GUITAR FAMILY LP; BARBARA LEE BACKMAN, INC.; TRUCHAS PEAKS, LLC; GUITAR GALUSHA, LP; LESLI GUITAR NICHOLS; JOHN KELLY GUITAR; WOODS DICKENS RANCH, LP; KELLY WOODS LEACH; JACK G.

WOODS, JR.; CAREN G. LUCAS A/K/A CAREN GALL LUCAS MACHELL; CAKI FAMILY LIMITED PARTNERSHIP; GUITAR LAND & CATTLE, LP; MARGARET ANN GUITAR AND JOHN ALEXANDER GUITAR, THE EARL B. GUITAR JR. BYPASS TRUST; JUDY GUITAR UHEY, LLC; CAREN GALL MACHELL, TRUSTEE OF THE CAREN GALL MACHELL EXEMPT TRUST; CROWNROCK MINERALS, LP; WILLIAM J. BEESING; ESTATE OF PEGGY LU BEESING VOREL C/O CHERYL M. BALLARD; DASHEA BEESING GELNAR; ESTATES OF PHYLLIS JEAN PEAL & ROGER C. PEAL C/O SALLY ANN CUNDIFF; LEWIS C. SAWYER LOVING TRUST; SANDRA M. SAWYER & THE ESTATE OF EDWARD A. SAWYER; ESTATE OF DELTA L. SAWYER C/O LEWIS C. SAWYER; ESTATE OF DUANE HOUSOUER A/K/A DOUGLAS DUANE HOUSOUER; DEVON ENERGY PRODUCTION COMPANY, L.P.; OXY USA WTP LIMITED PARTNERSHIP; STRYKER ENERGY, LLC; DICK JACKSON 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 June 6, 2019. This case has not yet been assigned a case number. In this case, Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the W/2 E/2 of Sections 7 and 18, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Nemesis 7 SB Fee 6H well, to be horizontally drilled. The producing area for this well will be orthodox. Also to be considered will be the cost of drilling and completing said well, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the well, and a 200% charge for risk involved in drilling said well, and allowing a one year period between when the well is drilled and when the well is completed. Said area is located approximately 2.5 miles Northwest of Loving, New Mexico.
Pub: April 18, 2019 #1283499