

Before the Oil Conservation Division Examiner Hearing April 18, 2019

Case No. 20311

- Tiberius 33 WA Fed Com 2H
- Tiberius 33 WXY Fed Com 5H
- Tiberius 33 WA Fed Com 7H
- Tiberius 33 WXY Fed Com 10H

- Tiberius 33 WXY Fed Com 20H
- Tiberius 33 WA Fed Com 17H
- Tiberius 33 WXY Fed Com 15H
- Tiberius 33 WA Fed Com 12H



MarathonOil®

**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. 20311

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 Sections 32 and 33, Township 22 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 Sections 32 and 33, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 1280-acre, more or less, spacing unit.
3. Marathon plans to drill the **Tiberius 33 WA FC 2H; Tiberius 33 WXY FC 5H; Tiberius 33 WA FC 7H; Tiberius 33 WXY FC 10H; Tiberius 33 WA FC 12H; Tiberius 33 WXY FC 15H; Tiberius 33 WA FC 17H; and Tiberius 33 WXY FC 20H** wells to a depth sufficient to test the Wolfcamp formation.
4. These wells will be located within the Purple Sage Wolfcamp Gas Pool (Pool Code 98220).

5. The completed interval for the Tiberius 33 WXY FC 10H well will be within 330 feet of the N/2 of Sections 32 and 33 to allow the inclusion of the proximity tracts in a standard 1280-acre spacing unit comprised of Sections 32 and 33.

6. These wells do not comply with the Division's setback requirements for this pool. Marathon will apply for administrative approval of the non-standard well locations separately.

7. 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.

8. 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.

9. 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 on March 7, 2019, and that, after notice and hearing as required by law, the Division enter its order:

A. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within Sections 32 and 33, Township 22 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.

Respectfully submitted this 5th day of February, 2019.

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

By: Deana M. Bennett

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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 Wolfcamp horizontal spacing unit underlying Sections 32 and 33, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Tiberius 33 WA FC 2H; Tiberius 33 WXY FC 5H; Tiberius 33 WA FC 7H; Tiberius 33 WXY FC 10H; Tiberius 33 WA FC 12H; Tiberius 33 WXY FC 15H; Tiberius 33 WA FC 17H; and Tiberius 33 WXY FC 20H** wells, to be horizontally drilled. The producing area for these wells will be unorthodox. 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 9 miles East of Carlsbad, New Mexico.

20311
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 Wolfcamp horizontal spacing unit underlying Sections 32 and 33, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Tiberius 33 WA FC 2H; Tiberius 33 WXY FC 5H; Tiberius 33 WA FC 7H; Tiberius 33 WXY FC 10H; Tiberius 33 WA FC 12H; Tiberius 33 WXY FC 15H; Tiberius 33 WA FC 17H; and Tiberius 33 WXY FC 20H** wells, to be horizontally drilled. The producing area for these wells will be unorthodox. 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 9 miles East of Carlsbad, New Mexico.

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**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. 20311

AFFIDAVIT

STATE OF TEXAS)
) ss.
COUNTY OF MIDLAND)

Travis Prewett, 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. 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.

4. 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.

5. In this case, Marathon seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying Sections 32 and 33, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Tiberius 33 WA Fed Com 2H; Tiberius 33 WXY Fed Com 5H; Tiberius**

33 WA Fed Com 7H; Tiberius 33 WXY Fed Com 10H; Tiberius 33 WA Fed Com 12H; Tiberius 33 WXY Fed Com 15H; Tiberius 33 WA Fed Com 17H; and Tiberius 33 WXY Fed Com 20H wells, to be horizontally drilled.

6. Marathon changed the names from the names set out in the application to conform with BLM's naming protocol.

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

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

9. 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.

10. In my opinion, Marathon has made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells. A summary of my attempts to contact working interest owners is included in Exhibit A.

11. Attached as **Exhibit B** are proposed C-102s for the wells. The wells will develop the Purple Sage Wolfcamp pool, pool code 98220, which is a gas pool.

12. The Purple Sage Wolfcamp pool is governed by special pool rules, which require setbacks at least 330 feet from a unit boundary.

13. The proposed wells have 100 feet setbacks.

14. Marathon applied for and received Non-Standard Location (NSL) approval for all of the wells.

15. The approved NSLs are attached as **Exhibit C**.

16. **Exhibit D** is an example of the proposal letters sent to working interest owners.
17. **Exhibit E** 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.
18. Marathon requests overhead and administrative rates of \$8000.00/month for drilling a well and \$800.00/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.
19. Marathon requests the maximum cost plus 200% risk charge be assessed against non-consenting working interest owners.
20. Marathon requests that it be designated operator of the wells.
21. 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.
22. The parties Marathon is seeking to pool were notified of this hearing.
23. Marathon requests that overriding royalty interest owners be pooled.
24. **Exhibit F** 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 March 5, 2019.
25. The attachments to this affidavit were prepared by me, or compiled from company business records, or were prepared at my direction.

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

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

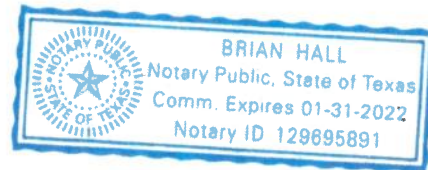
[Signature page follows]

Travis Prewett
Travis Prewett

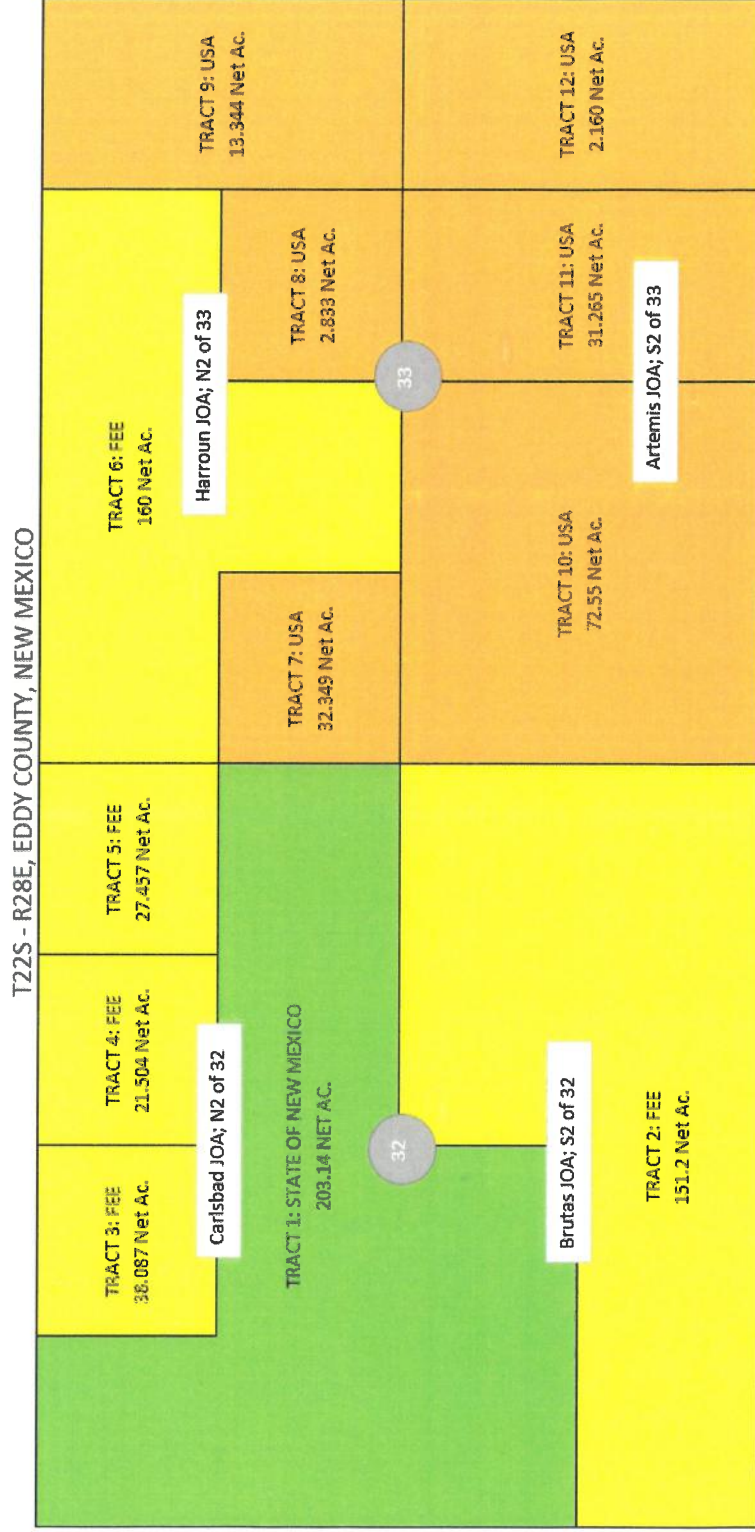
SUBSCRIBED AND SWORN to before me this 16th day of April, 2019 by Travis Prewett
on behalf of Marathon Oil Permian LLC.

B. Hall
Notary Public

My commission expires: 1/31/22



Lease Tract Map; All of Sections 32 & 33, T22S-R28E, Lea County, New Mexico
 Tiberius 33 WXY Fed Com 20H, Tiberius 33 WA Fed Com 17H, Tiberius 33 WXY Fed Com 15H,
 Tiberius 33 WA Fed Com 12H, Tiberius 33 WA FC 2H, Tiberius 33 WXY FC 5H, Tiberius 33 WA FC 7H, & Tiberius 33 WXY FC 10H



Summary of Interests – BPO Working Interest and Net Acres
Tiberius 33 WXY Fed Com 20H, Tiberius 33 WA Fed Com 17H, Tiberius 33 WXY Fed Com 15H,
Tiberius 33 WA Fed Com 12H, Tiberius 33 WA FC 2H, Tiberius 33 WXY FC 5H, Tiberius 33 WA FC 7H, & Tiberius 33 WXY FC 10H

BPO							
Tiberius WI Owner	N/2 32	S/2 32	N/2 33	S/2 33	32 + 33	Reduced to 25%	
Marathon Oil Permian LLC	73.561129520	51.427000000	48.357541000	56.600002781	229.945673301	57.48641833	
EOG Resources, Inc.	23.203130000				23.203130000	5.8007825	
Colgate Production, LLC	2.956100480	0.000000000	20.781250000	2.000000000	25.737350480	6.43433762	
John H. Mcissac	0.279640000	0.112000000	0.277307000		0.668947000	0.16723675	
Chester J. Steubben	0.000000000	0.112000000	0.138654000		0.250654000	0.0626635	
Alan D. Tuck, Jr. & Mrs. Evelyn Tuck	0.000000000	0.112000000	0.138653000		0.250653000	0.06266325	
Larry Turner	0.000000000		0.277307000		0.277307000	0.06932675	
Sande Wische	0.000000000	0.112000000	0.277307000		0.389307000	0.09732675	
Mizel Resources, a Trust		2.500000000		1.120000000	3.620000000	0.905	
Sisbro Oil & Gas, LLC		10.000000000		4.480000000	14.480000000	3.62	
CL & F Resources LP		18.750000000			18.750000000	4.6875	
Novo Oil & Gas Northern Delaware, LLC		14.062500000		9.000000000	23.062500000	5.765625	
Ozark Exploration, Inc.		2.812500000		1.800000000	4.612500000	1.153125	
Roemer Oil Company			0.874898000		0.874898000	0.2187245	
Richard Donnelly, et ux, Ann Ball Donnelly			1.793750000		1.793750000	0.4484375	
Magnum Hunter Production, Inc.			12.500000000		12.500000000	3.125	
MRC Permian Company			14.583333000	25.000000000	39.583333000	9.89583325	
HOG Partnership, LP				0.000000000	0.000000000	0	
Total		100.000000000	100.000000000	100.000002781		100.00000007	

Summary of Interests

Tiberius 33 WXY Fed Com 20H, Tiberius 33 WA Fed Com 17H, Tiberius 33 WXY Fed Com 15H,
Tiberius 33 WA Fed Com 12H, Tiberius 33 WA FC 2H, Tiberius 33 WXY FC 5H, Tiberius 33 WA FC 7H, & Tiberius 33 WXY FC 10H

• <u>Committed Working Interest:</u>			
• Marathon Oil Permian LLC	57.48641833%		57.48641833%
• <u>Uncommitted Working Interest-To Be Pooled:</u>			
• Colgate Production, LLC			
• John McIssac			
• Larry Turner			
• Sande Wische			
• Chester J. Stuebben			
• Alan D. Tuck, Jr., & Evelyn Tuck			
• EOG Resources, Inc.			
• CL & F Resources LP			
• Roemer Oil Company			
• Mizel Resources LP			
• Sisbro Oil & Gas, LLC			
• Novo Oil & Gas Northern Delaware, LLC			
• Ozark Exploration, Inc.			
• Richard Donnelly, et ux, Ann Ball Donnelly			
• Magnum Hunter Production, Inc.			
• HOG Partnership, LP			
• <u>Uncommitted Working Interest Owner-NOT to Be Pooled</u>			
• MRC Permian			WI: 9.89583325%
• <u>Other Entities Not Being Pooled:</u>			
• Foran Oil Company			
• Union Oil Company			
• <u>Unleased Mineral Interest:</u>			
			0.000000%

Summary of Attempted Contacts

- Marathon sent well proposal letters on February 4, 2019.
- Marathon then contacted parties to see if they would participate in the well and/or execute a joint operating agreement.
- Marathon conducted updated record searches and internet searches for contact information for parties it seeks to pool.
- Marathon continued to attempt to contact the parties who had not executed an agreement.
- Marathon filed an application to force pool parties who had not entered in to an agreement.
- Marathon sent notices of the force pooling application to the addresses of record.
- Marathon then also published notice in a newspaper of general circulation in the county where the wells will be located.

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code 98220		³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)					
⁴ Property Code		⁵ Property Name TIBERIUS 33 WA FED COM						⁶ Well Number 2H	
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC						⁹ Elevation 3043'	
¹⁰ Surface Location									
UL or lot no. I	Section 33	Township 22S	Range 28E	Lot Idn	Feet from the 1320	North/South line SOUTH	Feet from the 420	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 32	Township 22S	Range 28E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 100	East/West line WEST	County EDDY
¹² Dedicated Acres 1280.0		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Infill Well		KICK OFF POINT 330' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618272.93' / Y:488538.55' LAT:32.34281777N / LON:-104.08421394W NAD 27, SPCS NM EAST X:577090.61' / Y:488478.93' LAT:32.34269737N / LON:-104.08371718W		SURFACE HOLE LOCATION 1320' FSL 420' FEL, SECTION 33 NAD 83, SPCS NM EAST X:617935.47' / Y:489528.21' LAT:32.34554034N / LON:-104.08529923W NAD 27, SPCS NM EAST X:576753.17' / Y:489468.57' LAT:32.34541998N / LON:-104.08480234W		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____	
LAST TAKE/BHL T22S R28E 100' T23S R28E 330' SECTION 6		PI S89°13'52"W ~ 5226.13'		SHL S89°56'33"W ~ 5028.49'		KOP/ FIRST TAKE 420' 100' 100'	
LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 100' FWL, SECTION 32 NAD 83, SPCS NM EAST X:608018.78' / Y:488463.37' LAT:32.34267230N / LON:-104.11741747W NAD 27, SPCS NM EAST X:566836.60' / Y:488403.87' LAT:32.34255238N / LON:-104.11691951W		FIRST TAKE POINT 330' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618272.93' / Y:488538.55' LAT:32.34281777N / LON:-104.08421394W NAD 27, SPCS NM EAST X:577090.61' / Y:488478.93' LAT:32.34269737N / LON:-104.08371718W		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number _____			
CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 607883.07' / Y: 493420.58' B - X: 618325.10' / Y: 493490.53' C - X: 618378.75' / Y: 488208.65' D - X: 607921.17' / Y: 488131.89'		CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 566701.00' / Y: 493360.96' B - X: 577142.90' / Y: 493430.79' C - X: 577196.42' / Y: 488149.04' D - X: 566738.97' / Y: 488072.41'		PRELIMINARY THIS DOCUMENT IS NOT TO BE USED FOR ANY TRANSACTION, INCLUDING SALE OF THE LAND, UNTIL THE ISSUANCE OF A PERMIT.			
SHEET 1 OF 3 JOB No. R3957_010A REV 0 JCS 2/7/2019							

EXHIBIT

B

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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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 TIBERIUS 33 WXY FED COM						⁶ Well Number 5H	
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC						⁹ Elevation 3043'	
¹⁰ Surface Location									
UL or lot no. I	Section 33	Township 22S	Range 28E	Lot Idn	Feet from the 1350	North/South line SOUTH	Feet from the 420	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 32	Township 22S	Range 28E	Lot Idn	Feet from the 992	North/South line SOUTH	Feet from the 100	East/West line WEST	County EDDY
¹² Dedicated Acres 1280.0		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Infill Well KICK OFF POINT 987' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618261.37' / Y:489195.74' LAT:32.34462436N / LON:-104.08424644W NAD 27, SPCS NM EAST X:577079.06' / Y:489136.11' LAT:32.34450399N / LON:-104.08374961W		SURFACE HOLE LOCATION 1350' FSL 420' FEL, SECTION 33 NAD 83, SPCS NM EAST X:617934.94' / Y:489558.21' LAT:32.34562280N / LON:-104.08530071W NAD 27, SPCS NM EAST X:576752.64' / Y:489498.57' LAT:32.34550245N / LON:-104.08480382W		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.	
LAST TAKE/ BHL 100' T22S R28E T23S R28E SECTION 6		SHL 420' 100' 100' KOP/ FIRST TAKE 1350' 987' 987' SECTION 3		Signature _____ Date _____ Printed Name _____ E-mail Address _____	
LAST TAKE POINT/BOTTOM HOLE LOCATION 992' FSL 100' FWL, SECTION 32 NAD 83, SPCS NM EAST X:608014.01' / Y:489125.51' LAT:32.34449244N / LON:-104.11742859W NAD 27, SPCS NM EAST X:566831.84' / Y:489066.00' LAT:32.34437252N / LON:-104.11693057W		FIRST TAKE POINT 987' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618261.37' / Y:489195.74' LAT:32.34462436N / LON:-104.08424644W NAD 27, SPCS NM EAST X:577079.06' / Y:489136.11' LAT:32.34450399N / LON:-104.08374961W		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.	
CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 607883.07' / Y: 493420.58' B - X: 618325.10' / Y: 493490.53' C - X: 618378.75' / Y: 488208.65' D - X: 607921.17' / Y: 488131.89'		CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 566701.00' / Y: 493360.96' B - X: 577142.90' / Y: 493430.79' C - X: 577196.42' / Y: 488149.04' D - X: 566738.97' / Y: 488072.41'		Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____	

SHEET 1 OF 3
JOB No. R3957_010B
REV 0 JCS 2/7/2019

District I
1625 N. French Dr., Hobbs, NM 88240
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
	98220	PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name	⁶ Well Number
	TIBERIUS 33 WA FED COM	7H
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
372098	MARATHON OIL PERMIAN LLC	3043'

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
I	33	22S	28E		1380	SOUTH	420	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
L	32	22S	28E		1652	SOUTH	100	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
1280.0			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Infill Well KICK OFF POINT 1647' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618249.75' / Y:489855.75' LAT:32.34643867N / LON:-104.08427907W NAD 27, SPCS NM EAST X:577067.46' / Y:489796.10' LAT:32.34631831N / LON:-104.08378218W SURFACE HOLE LOCATION 1380' FSL 420' FEL, SECTION 33 NAD 83, SPCS NM EAST X:617934.41' / Y:489588.21' LAT:32.34570527N / LON:-104.08530220W NAD 27, SPCS NM EAST X:576752.12' / Y:489528.57' LAT:32.34558492N / LON:-104.08480530W LAST TAKE POINT/BOTTOM HOLE LOCATION 1652' FSL 100' FWL, SECTION 32 NAD 83, SPCS NM EAST X:608009.26' / Y:489785.51' LAT:32.34630670N / LON:-104.11743968W NAD 27, SPCS NM EAST X:566827.10' / Y:489725.98' LAT:32.34618679N / LON:-104.11694160W FIRST TAKE POINT 1647' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618249.75' / Y:489855.75' LAT:32.34643867N / LON:-104.08427907W NAD 27, SPCS NM EAST X:577067.46' / Y:489796.10' LAT:32.34631831N / LON:-104.08378218W CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 607883.07' / Y: 493420.58' B - X: 618325.10' / Y: 493490.53' C - X: 618378.75' / Y: 488208.65' D - X: 607921.17' / Y: 488131.89' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 566701.00' / Y: 493360.96' B - X: 577142.90' / Y: 493430.79' C - X: 577196.42' / Y: 488149.04' D - X: 566738.97' / Y: 488072.41' SHEET 1 OF 3 JOB No. R3957_010C REV 0 JCS 2/7/2019	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____ ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____ PRELIMINARY THIS DOCUMENT IS NOT TO BE USED FOR ANY PURPOSES WITHOUT THE WRITTEN PERMISSION OF THE BUREAU OF LAND MANAGEMENT.
--	--

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

Form C-102
Revised August 1, 2011
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
	98220	PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name	⁶ Well Number
	TIBERIUS 33 WXY FED COM	10H
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation
372098	MARATHON OIL PERMIAN LLC	3043'

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
I	33	22S	28E		1410	SOUTH	420	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
L	32	22S	28E		2314	SOUTH	100	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
1280.0			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Defining Well KICK OFF POINT 2304' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618238.19' / Y:490512.93' LAT:32.34824523N / LON:-104.08431157W NAD 27, SPCS NM EAST X:577055.91' / Y:490453.27' LAT:32.34812488N / LON:-104.08381462W	SURFACE HOLE LOCATION 1410' FSL 420' FEL, SECTION 33 NAD 83, SPCS NM EAST X:617933.88' / Y:489618.21' LAT:32.34578774N / LON:-104.08530368W NAD 27, SPCS NM EAST X:576751.59' / Y:489558.57' LAT:32.34566738N / LON:-104.08480678W	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division Signature _____ Date _____ Printed Name _____ E-mail Address _____			
			18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____		
				LAST TAKE POINT/BOTTOM HOLE LOCATION 2314' FSL 100' FWL, SECTION 32 NAD 83, SPCS NM EAST X:608004.49' / Y:490447.64' LAT:32.34812683N / LON:-104.11745080W NAD 27, SPCS NM EAST X:566822.35' / Y:490388.10' LAT:32.34800694N / LON:-104.11695266W	FIRST TAKE POINT 2304' FSL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618238.19' / Y:490512.93' LAT:32.34824523N / LON:-104.08431157W NAD 27, SPCS NM EAST X:577055.91' / Y:490453.27' LAT:32.34812488N / LON:-104.08381462W

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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 TIBERIUS 33 WA FED COM						⁶ Well Number 12H	
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC						⁹ Elevation 3058'	
¹⁰ Surface Location									
UL or lot no. A	Section 33	Township 22S	Range 28E	Lot Idn	Feet from the 1050	North/South line NORTH	Feet from the 720	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. E	Section 32	Township 22S	Range 28E	Lot Idn	Feet from the 2314	North/South line NORTH	Feet from the 100	East/West line WEST	County EDDY
¹² Dedicated Acres 1280.0		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Infill Well KICK OFF POINT 2318' FNL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618231.49' / Y:491172.94' LAT:32.35005953N / LON:-104.08432830W NAD 27, SPCS NM EAST X:577049.23' / Y:491113.26' LAT:32.34993919N / LON:-104.08383128W SURFACE HOLE LOCATION 1050' FNL 720' FEL, SECTION 33 NAD 83, SPCS NM EAST X:617607.98' / Y:492441.50' LAT:32.35355055N / LON:-104.08633789W NAD 27, SPCS NM EAST X:576425.77' / Y:492381.80' LAT:32.35343027N / LON:-104.08564068W						17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division Signature _____ Date _____ Printed Name _____ E-mail Address _____			
SECTION 30 SECTION 29 SECTION 28 SECTION 27 SECTION 31 SECTION 32 SECTION 33 SECTION 34 SECTION 6 SECTION 5 SECTION 4 SECTION 3 2314' 100' 1050' 2318' 720' 100' 100' S89°11'34"W ~ 5172.31' N89°54'52"W ~ 5059.96' LAST TAKE/ BHL PI KOP/ FIRST TAKE LAST TAKE POINT/BOTTOM HOLE LOCATION 2314' FNL 100' FWL, SECTION 32 NAD 83, SPCS NM EAST X:607999.74' / Y:491107.64' LAT:32.34994109N / LON:-104.11746189W NAD 27, SPCS NM EAST X:566817.61' / Y:491048.08' LAT:32.34982121N / LON:-104.11696369W FIRST TAKE POINT 2318' FNL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618231.49' / Y:491172.94' LAT:32.35005953N / LON:-104.08432830W NAD 27, SPCS NM EAST X:577049.23' / Y:491113.26' LAT:32.34993919N / LON:-104.08383128W CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 607883.07' / Y: 493420.58' B - X: 618325.10' / Y: 493490.53' C - X: 618378.75' / Y: 488208.65' D - X: 607921.17' / Y: 488131.89' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 566701.00' / Y: 493360.96' B - X: 577142.90' / Y: 493430.79' C - X: 577196.42' / Y: 488149.04' D - X: 566738.97' / Y: 488072.41'						18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____			

SHEET 1 OF 3
JOB No. R3957_011A
REV 0 JCS 2/7/2019

PRELIMINARY
THIS DOCUMENT IS NOT TO BE USED FOR
CONSTRUCTION, BIDDING, RECORDING OR
ANY AND SALE OF THE BASIS FOR THE
ISSUANCE OF A PLAT.

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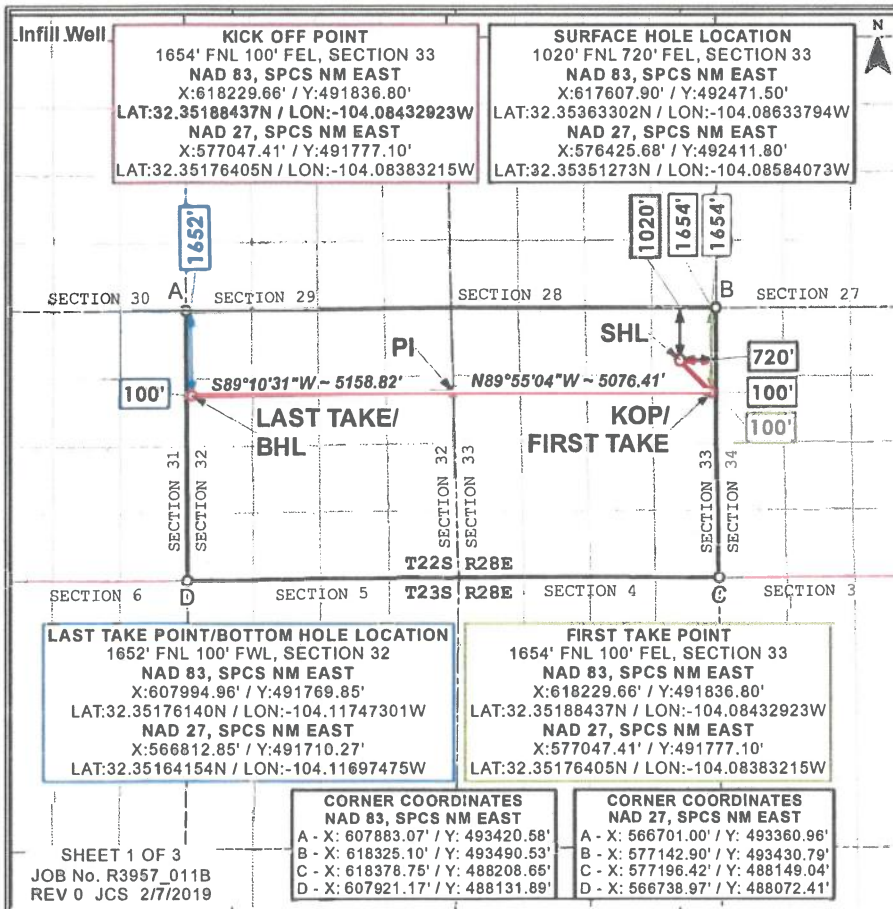
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OIL CONSERVATION DIVISION
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Santa Fe, NM 87505

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 TIBERIUS 33 WXY FED COM						⁶ Well Number 15H	
⁷ OGRID No. 372098		⁸ Operator Name MARATHON OIL PERMIAN LLC						⁹ Elevation 3058'	
¹⁰ Surface Location									
UL or lot no. A	Section 33	Township 22S	Range 28E	Lot Idn	Feet from the 1020	North/South line NORTH	Feet from the 720	East/West line EAST	County EDDY
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. E	Section 32	Township 22S	Range 28E	Lot Idn	Feet from the 1652	North/South line NORTH	Feet from the 100	East/West line WEST	County EDDY
¹² Dedicated Acres 1280.0		¹³ Joint or Infill		¹⁴ Consolidation Code		¹⁵ Order No.			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Infill Well		KICK OFF POINT 1654' FNL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618229.66' / Y:491836.80' LAT:32.35188437N / LON:-104.08432923W NAD 27, SPCS NM EAST X:577047.41' / Y:491777.10' LAT:32.35176405N / LON:-104.08383215W		SURFACE HOLE LOCATION 1020' FNL 720' FEL, SECTION 33 NAD 83, SPCS NM EAST X:617607.90' / Y:492471.50' LAT:32.35363302N / LON:-104.08633794W NAD 27, SPCS NM EAST X:576425.68' / Y:492411.80' LAT:32.35351273N / LON:-104.08584073W		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____	
		LAST TAKE POINT/BOTTOM HOLE LOCATION 1652' FNL 100' FWL, SECTION 32 NAD 83, SPCS NM EAST X:607994.96' / Y:491769.85' LAT:32.35176140N / LON:-104.11747301W NAD 27, SPCS NM EAST X:566812.85' / Y:491710.27' LAT:32.35164154N / LON:-104.11697475W		FIRST TAKE POINT 1654' FNL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618229.66' / Y:491836.80' LAT:32.35188437N / LON:-104.08432923W NAD 27, SPCS NM EAST X:577047.41' / Y:491777.10' LAT:32.35176405N / LON:-104.08383215W		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____	
CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 607883.07' / Y: 493420.58' B - X: 618325.10' / Y: 493490.53' C - X: 618378.75' / Y: 488208.65' D - X: 607921.17' / Y: 488131.89'		CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 566701.00' / Y: 493360.96' B - X: 577142.90' / Y: 493430.79' C - X: 577196.42' / Y: 488149.04' D - X: 566738.97' / Y: 488072.41'		PRELIMINARY THIS DOCUMENT IS NOT TO BE USED FOR CONSTRUCTION, RECORDING, OR CONVEYANCE, SURETY, OR ISSUANCE OF A PLAT.			

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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 TIBERIUS 33 WA FED COM	⁶ Well Number 17H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3058'

¹⁰ Surface Location

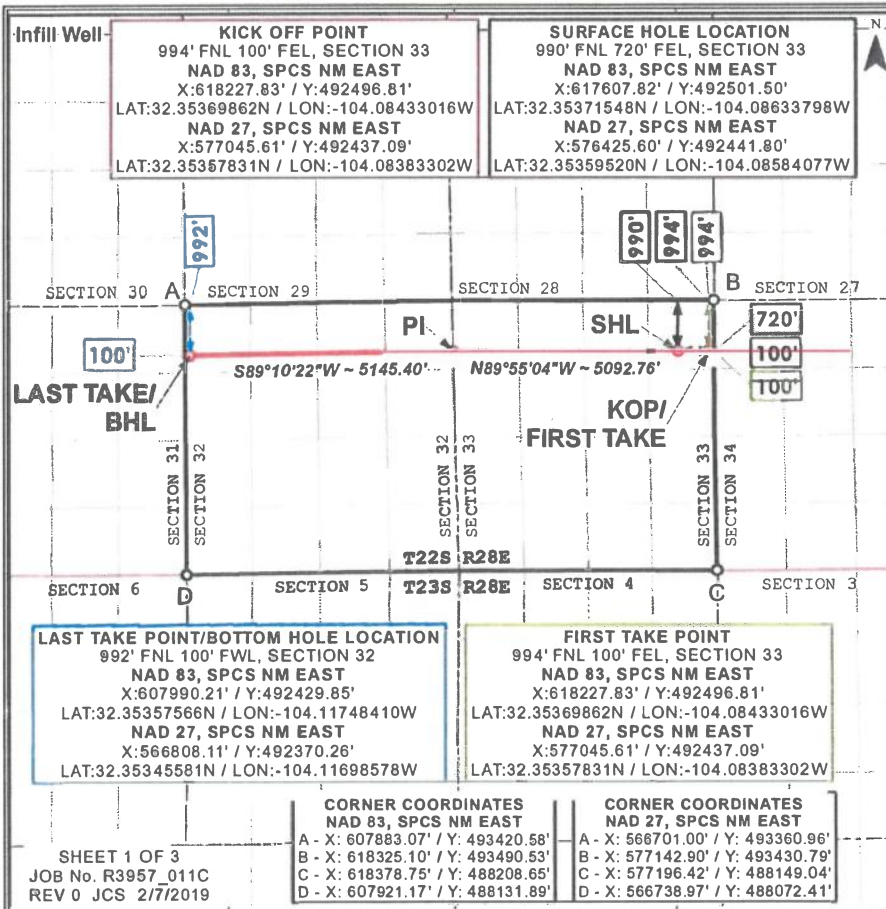
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	33	22S	28E		990	NORTH	720	EAST	EDDY

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
D	32	22S	28E		992	NORTH	100	WEST	EDDY

¹² Dedicated Acres 1280.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
---	-------------------------------	----------------------------------	-------------------------

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



17 OPERATOR CERTIFICATION

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

Signature _____ Date _____

Printed Name _____

E-mail Address _____

18 SURVEYOR CERTIFICATION

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

Date of Survey _____

Signature and Seal of Professional Surveyor: _____

Certificate Number _____

PRELIMINARY
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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	Property Name TIBERIUS 33 WXY FED COM	⁶ Well Number 20H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3058'

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
A	33	22S	28E		960	NORTH	720	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
D	32	22S	28E		330	NORTH	100	WEST	EDDY

¹² Dedicated Acres 1280.0	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.

Infill Well KICK OFF POINT 330' FNL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618226.00' / Y:493160.66' LAT:32.35552346N / LON:-104.08433110W NAD 27, SPCS NM EAST X:577043.79' / Y:493100.93' LAT:32.35540317N / LON:-104.08383389W SURFACE HOLE LOCATION 960' FNL 720' FEL, SECTION 33 NAD 83, SPCS NM EAST X:617607.74' / Y:492531.50' LAT:32.35379795N / LON:-104.08633802W NAD 27, SPCS NM EAST X:576425.52' / Y:492471.80' LAT:32.35367767N / LON:-104.08584081W LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 100' FWL, SECTION 32 NAD 83, SPCS NM EAST X:607985.44' / Y:493092.05' LAT:32.35539597N / LON:-104.11749523W NAD 27, SPCS NM EAST X:566803.36' / Y:493032.44' LAT:32.35527614N / LON:-104.11699685W FIRST TAKE POINT 330' FNL 100' FEL, SECTION 33 NAD 83, SPCS NM EAST X:618226.00' / Y:493160.66' LAT:32.35552346N / LON:-104.08433110W NAD 27, SPCS NM EAST X:577043.79' / Y:493100.93' LAT:32.35540317N / LON:-104.08383389W CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 607883.07' / Y: 493420.58' B - X: 618325.10' / Y: 493490.53' C - X: 618378.75' / Y: 488208.65' D - X: 607921.17' / Y: 488131.89' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 566701.00' / Y: 493360.96' B - X: 577142.90' / Y: 493430.79' C - X: 577196.42' / Y: 488149.04' D - X: 566738.97' / Y: 488072.41' SHEET 1 OF 3 JOB No. R3957_011D REV 0 JCS 2/7/2019	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____ ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number _____ PRELIMINARY THIS DOCUMENT IS NOT TO BE USED FOR CONVEYANCE, SALE, OR RECORDATION OF A PLAT.
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State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7854

Marathon Oil Permian, LLC. [OGRID 372098]
Tiberius 33 WA FC Well No. 2H
API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	1320 FSL & 420 FEL	I	33	22S	28E	Eddy
First Take Point	330 FSL & 100 FEL	P	33	22S	28E	Eddy
Last Take Point/ Terminus	330 FSL & 100 FWL	M	32	22S	28E	Eddy

Proposed Horizontal Gas Units

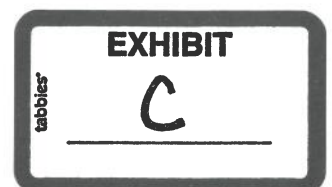
<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33 Section 32	1280	Purple Sage; Wolfcamp (GAS)	98220

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the SW4
Section 31, encroachment to the SE4



Administrative Order NSL-7854
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

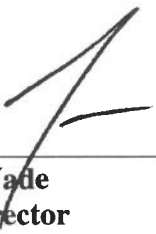
Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
Governor

Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7858

Marathon Oil Permian, LLC. [OGRID 372098]
Tiberius 33 WXY FC Well No. 5H
API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	1350 FSL & 420 FEL	I	33	22S	28E	Eddy
First Take Point	987 FSL & 100 FEL	P	33	22S	28E	Eddy
Last Take Point/ Terminus	992 FSL & 100 FWL	M	32	22S	28E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33	1280	Purple Sage; Wolfcamp (GAS)	98220
Section 32			

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the SW4
Section 31, encroachment to the SE4

Administrative Order NSL-7858
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
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Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7855

Marathon Oil Permian, LLC. [OGRID 372098]
Tiberius 33 WA FC Well No. 7H
API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	1380 FSL & 420 FEL	I	33	22S	28E	Eddy
First Take Point	1647 FSL & 100 FEL	P	33	22S	28E	Eddy
Last Take Point/ Terminus	1652 FSL & 100 FWL	M	32	22S	28E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33	1280	Purple Sage; Wolfcamp (GAS)	98220
Section 32			

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the SW4
Section 31, encroachment to the SE4

Administrative Order NSL-7855
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office

State of New Mexico
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Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7859

Marathon Oil Permian, LLC. [OGRID 372098]
Tiberius 33 WXY FC Well No. 10H
API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	1410 FSL & 420 FEL	I	33	22S	28E	Eddy
First Take Point	2304 FSL & 100 FEL	I	33	22S	28E	Eddy
Last Take Point/ Terminus	2314 FSL & 100 FWL	L	32	22S	28E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33	1280	Purple Sage; Wolfcamp (GAS)	98220
Section 32			

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the SW4
Section 31, encroachment to the SE4

Administrative Order NSL-7859
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
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Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7856

Marathon Oil Permian, LLC. [OGRID 372098]
Tiberius 33 WA FC Well No. 12H
API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	1050 FNL & 720 FEL	A	33	22S	28E	Eddy
First Take Point	2318 FNL & 100 FEL	H	33	22S	28E	Eddy
Last Take Point/ Terminus	2314 FNL & 100 FWL	E	32	22S	28E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33	1280	Purple Sage; Wolfcamp (GAS)	98220
Section 32			

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the NW4
Section 31, encroachment to the NE4

Administrative Order NSL-7856
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

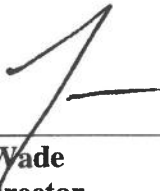
Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
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Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7860

Marathon Oil Permian, LLC. [OGRID 372098]
Tiberius 33 WXY FC Well No. 15H
API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	1020 FNL & 720 FEL	A	33	22S	28E	Eddy
First Take Point	1654 FNL & 100 FEL	H	33	22S	28E	Eddy
Last Take Point/ Terminus	1652 FNL & 100 FWL	E	32	22S	28E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33	1280	Purple Sage; Wolfcamp (GAS)	98220
Section 32			

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the NW4
Section 31, encroachment to the NE4

Administrative Order NSL-7860
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

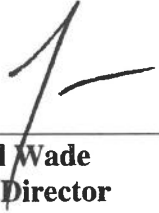
Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office

State of New Mexico
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Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7857

Marathon Oil Permian, LLC. [OGRID 372098]
Tiberius 33 WA FC Well No. 17H
API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	990 FNL & 720 FEL	A	33	22S	28E	Eddy
First Take Point	994 FNL & 100 FEL	A	33	22S	28E	Eddy
Last Take Point/ Terminus	992 FNL & 100 FWL	E	32	22S	28E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33 Section 32	1280	Purple Sage; Wolfcamp (GAS)	98220

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the NW4
Section 31, encroachment to the NE4

Administrative Order NSL-7857
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

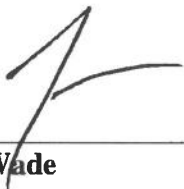
Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office

State of New Mexico
Energy, Minerals and Natural Resources Department

Michelle Lujan Grisham
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Sarah Cottrell Propst
Cabinet Secretary

Todd E. Leahy, JD, PhD
Deputy Cabinet Secretary

Gabriel Wade, Acting Director
Oil Conservation Division



April 1, 2019

Ms. Deana M. Bennett
dmb@modrall.com

NON-STANDARD LOCATION

Administrative Order NSL-7861

Marathon Oil Permian, LLC. [OGRID 372098]

Tiberius 33 WXY FC Well No. 20H

API No. 30-015-PENDING

Proposed Location

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Sec.</u>	<u>Twsp</u>	<u>Range</u>	<u>County</u>
Surface	960 FNL & 720 FEL	A	33	22S	28E	Eddy
First Take Point	330 FNL & 100 FEL	A	33	22S	28E	Eddy
Last Take Point/ Terminus	330 FNL & 100 FWL	D	32	22S	28E	Eddy

Proposed Horizontal Gas Units

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
Section 33	1280	Purple Sage; Wolfcamp (GAS)	98220
Section 32			

Reference is made to your application received on March 6, 2019.

You have requested to complete this horizontal well as a gas well described above in the referenced pool or formation. This well is governed by special rules for the Purple Sage; Wolfcamp (Gas) Pool of and provides for 320-acre units, with wells located at least 330 feet from a unit outer boundary.

This well's completed interval is as close as 100 feet to the eastern and western edge of the horizontal spacing unit. Encroachment will impact the following tracts.

Section 34, encroachment to the NW4

Section 31, encroachment to the NE4

Administrative Order NSL-7861
Marathon Oil Permian, LLC
April 1, 2019
Page 2 of 2

The Division understands you have given notice of this application to all operators or owners who are "affected persons," as defined in Paragraph (8) Subsection A of 19.15.2.7 NMAC, in all adjoining units towards which the proposed location encroaches.

Division understands you seek this unorthodox location to fit the spacing for the other wells in the development plan of the entire section and thereby preventing waste within the Wolfcamp formation underlying the Section 33 and Section 32.

Your application has been filed under Subsection 6 of Paragraph of Section (C) of 19.15.16.15 NMAC, 19.15.15.13 NMAC and Paragraph (2) of Subsection A of 19.15.4.12 NMAC.

Per Subsection B of 19.15.15.13 NMAC, Division approves this unorthodox location.

The above approvals are subject to your following all other applicable Division rules.

Jurisdiction of this case is retained for the entry of further orders as Division deems necessary.



Gabriel Wade
Acting Director

GW/lrl

cc: Oil Conservation Division – Artesia District Office
Bureau of Land Management – Carlsbad Field Office

Travis H. Prewett
Sr. Land Professional



Marathon Oil Permian LLC
5555 San Felipe Street
Houston, Texas 77056
Telephone: 713-296-3696
thprewett@marathonoil.com

February 4, 2019

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED
7018 1130 0000 1011 0152

Alan D. Tuck, Jr. & Evelyn Tuck
2829 Wilfred Reid Cir.
Sarasota, FL 34240

Re: Tiberius 33 FC 2H, 5H, 7H, 10H, 12H, 15H, 17H & 20H Well Proposals
All of Sections 32 & 33, Township 22 South, Range 28 East
Eddy County, New Mexico

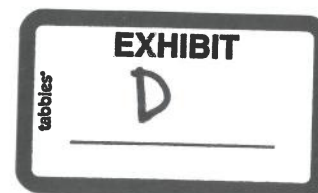
Dear Alan D. Tuck, Jr. & Evelyn Tuck:

The purpose of this letter is to update the previous Tiberius Well Proposal Letter to exclude the proposed Bone Spring wells and to amend the well depths and the geographical boundary of the Tiberius Unit. Please note that the information contained in this letter voids and supersedes any inconsistent information regarding the Tiberius wells in the previous Well Proposal Letter.

Marathon Oil Permian LLC ("Marathon") proposes the drilling of the following wells located in a 1,280 acre unit, being All of Sections 32 & 33, T22S-R28E, Eddy County, New Mexico, all to be drilled from two surface pad locations.

Pad	Well Name	SHL	BHL	Proration Unit	Target TVD	Est. MD
1	Tiberius 33 WA FC 2H	420' FEL & 1320' FSL of Sec. 33	100' FWL & 330' FSL of Sec. 32	All of Secs. 32 & 33	9,821'	20,383'
1	Tiberius 33 WXY FC 5H	420' FEL & 1350' FSL of Sec. 33	100' FWL & 990' FSL of Sec. 32	All of Secs. 32 & 33	9,613'	20,124'
1	Tiberius 33 WA FC 7H	420' FEL & 1380' FSL of Sec. 33	100' FWL & 1650' FSL of Sec. 32	All of Secs. 32 & 33	9,821'	20,306'
1	Tiberius 33 WXY FC 10H	420' FEL & 1410' FSL of Sec. 33	100' FWL & 2360' FSL of Sec. 32	All of Secs. 32 & 33	9,613'	20,150'
2	Tiberius 33 WA FC 12H	720' FEL & 1050' FNL of Sec. 33	100' FWL & 2310' FNL of Sec. 32	All of Secs. 32 & 33	9,843'	20,426'
2	Tiberius 33 WXY FC 15H	720' FEL & 1020' FNL of Sec. 33	100' FWL & 1650' FNL of Sec. 32	All of Secs. 32 & 33	9,635'	20,161'
2	Tiberius 33 WA FC 17H	720' FEL & 990' FNL of Sec. 33	100' FWL & 990' FNL of Sec. 32	All of Secs. 32 & 33	9,843'	20,350'
2	Tiberius 33 WXY FC 20H	720' FEL & 960' FNL of Sec. 33	100' FWL & 330' FNL of Sec. 32	All of Secs. 32 & 33	9,635'	20,165'

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
- \$8,000/\$800 drilling and producing rates
- Contract area of All of Sections 32 & 33, T22S-R28E, covering the depths from the top of the Wolfcamp formation to the base of the Wolfcamp formation.

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

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

This term assignment offer terminates on March 4, 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,

Travis H. Prewett

Travis H. Prewett
Marathon Oil Permian LLC

<<< ELECTIONS FOLLOW >>>

Pad one, as follows

Tiberius 33 WA FC 2H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Tiberius 33 WXY FC 5H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Tiberius 33 WA FC 7H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Tiberius 33 WXY FC 10H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Pad two, as follows

Tiberius 33 WA FC 12H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Tiberius 33 WXY FC 15H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Tiberius 33 WA FC 17H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Tiberius 33 WXY FC 20H

____ Alan D. Tuck, Jr. & Evelyn Tuck elects to participate in the drilling, completing, and equipping of the well.

____ Alan D. Tuck, Jr. & Evelyn Tuck elects NOT to participate in the drilling, completing, and equipping of the well.

Alan D. Tuck, Jr. & Evelyn Tuck

By: _____

Print Name: _____

Title: _____

Date: _____

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

DATE 1/29/2019
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team	PERMIAN		
Field	Purple Sage Wolfco	FORMATION: Wolfcamp A	WILDCAT
Lease/Facility	Tiberus 33 WA FC 2H		DEVELOPMENT
Location	EDDY COUNTY		X EXPLOITATION
Prospect	MALAGA		WORKOVER

Est Total Depth	20,383	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	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	43,333
7019220	Drilling Rig - day work/footage	596,267
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)	71,000
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 (OH rentals)	15,000
7019110	Casing inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	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	21,467
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	91,733
7018150	Rig Equipment and Misc.	11,467
7001110	Telecommunications Services	5,000
7001120	Consulting Services	107,787
7001400	Safety and Environmental	36,693
7018120	Rental Buildings (trailers)	18,347
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	173,509
TOTAL DRILLING - INTANGIBLE		\$2,060,202

TOTAL DRILLING COST	\$2,652,202
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COMPLETION - TANGIBLE

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



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

DATE 1/29/2019

Asset Team PERMIAN
Field Purple Sage; Wolfci FORMATION: Wolfcamp A
Lease/Facility Tiberius 33 WA FC 2H

COMPLETION - INTANGIBLE

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

TOTAL COMPLETION COST

\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	85,795
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	74,150
7001110	Telecommunication equip (Telemetry)	-
7012610	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	\$ 95,000
TOTAL DRILLING COST	\$ 2,652,202
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$10,162,632

Participant's Approval

Name of
Company: _____

Signature: _____

Title: _____ Date: _____

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

DATE 1/29/2019
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team PERMIAN
Field Purple Sage Wells FORMATION: Wolfcamp XY WILDCAT EXPLORATION
Lease/Facility Tiberius 31 WRY FC SH DEVELOPMENT RECOMPLETION
Location EDDY COUNTY X EXPLOITATION WORKOVER
Prospect MALAGA

Est Total Depth 20,124 Est Drilling Days _____ Est Completion Days 5.5

LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	128,000
7012050	Drift Liner Hanger, Tieback Eq & Ctg 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	43,333
7019220	Drilling Rig - day work/footage	596,267
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)	71,000
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	21,467
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	91,733
7018150	Rig Equipment and Misc.	11,467
7001110	Telecommunications Services	5,000
7001120	Consulting Services	107,787
7001400	Safety and Environmental	36,693
7018120	Rental Buildings (trailers)	18,347
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	173,509
TOTAL DRILLING - INTANGIBLE		\$2,060,202

TOTAL DRILLING COST \$2,652,202

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 1/29/2019

Asset Team PERMIAN
Field Purple Sage; Wolfcr FORMATION: Wolfcamp XY
Lease/Facility Tiberius 33 WXY FC 5H

COMPLETION - INTANGIBLE

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

TOTAL COMPLETION COST

\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

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

TOTAL SURFACE EQUIPMENT COST

\$ 839,730

ARTIFICIAL LIFT

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

TOTAL ARTIFICIAL LIFT COST

\$ 169,500

SUMMARY OF ESTIMATED DRILLING WELL COSTS

TOTAL COST

TOTAL LOCATION COST	\$ 95,000
TOTAL DRILLING COST	\$ 2,652,202
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$10,162,632

Participant's Approval

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

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

DATE 1/29/2019
 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY MATT HENSCHEN
 ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team PERMIAN
 Field Purple Sage; Wolfcamp FORMATION: Wolfcamp A WILDCAT EXPLORATION
 Lease/Facility Tiberion 33 WA FC 7H DEVELOPMENT RECOMPLETION
 Location EDDY COUNTY X EXPLOITATION WORKOVER
 Prospect MALAGA

Est Total Depth 20,306 Est Drilling Days Est Completion Days 5.5

LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	128,000
7012050	Drle 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	43,333
7019220	Drilling Rig - day work/footage	596,267
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)	71,000
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	21,467
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	91,733
7018150	Rig Equipment and Misc.	11,467
7001110	Telecommunications Services	5,000
7001120	Consulting Services	107,787
7001400	Safety and Environmental	36,693
7018120	Rental Buildings (trailers)	18,347
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	173,509
TOTAL DRILLING - INTANGIBLE		\$2,060,202

TOTAL DRILLING COST

\$2,652,202

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; Wolfc FORMATION: Wolfcamp A
 Lease/Facility Tiberius 33 WA FC 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 drilg)	-
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; drilg & compl)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (ind drilg; 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	\$ 95,000
TOTAL DRILLING COST	\$ 2,652,202
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500

GRAND TOTAL COST

\$10,162,632

Participant's Approval

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

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

DATE 1/29/2019
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team	PERMIAN			
Field	Purple Sage Wolfc	FORMATION: Wolfcamp XY	WILDCAT	EXPLORATION
Lease/Facility	Tiberius 33 WXY FC 10H		DEVELOPMENT	RECOMPLETION
Location	LODY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth	20,150	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	128,000
7012050	Drig Liner Hanger, Tieback Eiq & 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	43,333	
7019220	Drilling Rig - day work/footage	596,267	
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)	71,000	
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	21,467	
7019350	Well Services - Well/Wellhead Services	10,000	
7018150	Rental Tools and Equipment (surface rentals)	91,733	
7018150	Rig Equipment and Misc.	11,467	
7001110	Telecommunications Services	5,000	
7001120	Consulting Services	107,787	
7001400	Safety and Environmental	36,693	
7018120	Rental Buildings (trailers)	18,347	
7019310	Coring (sidewalls & analysis)	-	
7011010	7% Contingency & Taxes	173,509	
TOTAL DRILLING - INTANGIBLE		\$2,060,202	

TOTAL DRILLING COST \$2,652,202

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 1/29/2019

Asset Team PERMIAN
Field Purple Sage; Wolfc FORMATION: Wolfcamp XY
Lease/Facility Tiberius 33 WXY FC 10H

COMPLETION - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	10,000
7019220	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	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. Bili, 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 (jump-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	\$ 95,000
TOTAL DRILLING COST	\$ 2,652,202
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,162,632

Participant's Approval

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

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

DATE 1/29/2019
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team	PERMIAN			
Field	Purple Sage; Wolfc	FORMATION: Wolfcamp A	WILDCAT	EXPLORATION
Lease/Facility	Tiberkus 33 WA FC 12H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth	20,426	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	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	43,333
7019220	Drilling Rig - day work/footage	596,267
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)	71,000
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 (OH rentals)	15,000
7019110	Casing Inspection/cleaning	15,000
7019110	Drill pipe/collar inspection services	10,000
7016180	Freight - truck	25,000
7001460	Water hauling and disposal (includes soil farming)	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	21,467
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	91,733
7018150	Rig Equipment and Misc.	11,467
7001110	Telecommunications Services	5,000
7001120	Consulting Services	107,787
7001400	Safety and Environmental	36,693
7018120	Rental Buildings (trailers)	18,347
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	173,509
TOTAL DRILLING - INTANGIBLE		\$2,060,202

TOTAL DRILLING COST	\$2,652,202
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COMPLETION - TANGIBLE

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

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

DATE 1/29/2019

Asset Team PERMIAN
 Field Purple Sage; Wolfc FORMATION: Wolfcamp A
 Lease/Facility Tiberius 33 WA FC 12H

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 & comp)	20,000
7018150	BOP Rental & Testing	-
7018150	Rental Tools and Equipment (ind drlg; lightplant,hydra-walk)	-
7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
7000030	Contract Labor - general	60,000
7001110	Telecommunications Services	120,000
7001400	Safety and Environmental	-
7001120	Consulting Services	100,000
7018150	Zipper Manifold	250,000
7019300	Frack Stack Rentals	85,000
7016190	Freight (Transportation Services)	-
7018150	Equipment Rental (w/o operator, frac tanks, lightplants)	160,000
7018120	Rental Buildings (trailers)	35,000
7000030	Contract Labor - Pumping (pump-down pumps)	60,000
7011010	8% Contingency & Taxes	431,200
TOTAL COMPLETION - INTANGIBLE		\$6,391,200
TOTAL COMPLETION COST		\$6,406,200

SURFACE EQUIPMENT - TANGIBLE

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

ARTIFICIAL LIFT

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

SUMMARY OF ESTIMATED DRILLING WELL COSTS

TOTAL LOCATION COST	\$ 95,000
TOTAL DRILLING COST	\$ 2,652,202
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,162,632

Participant's Approval

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

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

DATE 1/29/2019

DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
 COMPLETION PREPARED BY JOSH SHANNON
 FACILITIES PREPARED BY MATT HENSCHEN
 ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team	PERMIAN			
Field	Purple Sage: Woffco	FORMATION: Wolfcamp XV	WILDCAT	EXPLORATION
Lease/Facility	Tiberius 13 WXY FC 15H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			
Est Total Depth	20,161	Est Drilling Days		Est Completion Days 5.5

LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	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

7015200	Drilling Rig Mob/Demob	43,333
7015220	Drilling Rig - day work/footage	596,267
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)	71,000
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	21,467
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	91,733
7018150	Rig Equipment and Misc.	11,467
7001110	Telecommunications Services	5,000
7001120	Consulting Services	107,787
7001400	Safety and Environmental	36,693
7018120	Rental Buildings (trailers)	18,347
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	173,509
TOTAL DRILLING - INTANGIBLE		\$2,060,202

TOTAL DRILLING COST

\$2,652,202

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; Wolfc: FORMATION: Wolfcamp XY
 Lease/Facility Tiberius 33 WXY FC 15H

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. Bits, 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	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	191,450
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	\$ 95,000
TOTAL DRILLING COST	\$ 2,652,202
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,162,632

Participant's Approval

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

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

DATE 1/29/2019
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team PERMIAN
Field Purple Sage; Wolfs FORMATION: Wolfcamp A
Lease/Facility Tiberius 33 WA FC 17H
Location EDDY COUNTY
Prospect MALAGA

WILDCAT
DEVELOPMENT
☒ EXPLOITATION
EXPLORATION
RECOMPLETION
WORKOVER

Est Total Depth 20,350 Est Drilling Days _____ Est Completion Days 5.5

LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	28,000
7012050	Surface Casing	16,000
7012050	Intermediate Casing 1	55,000
7012050	Intermediate Casing 2	231,000
7012050	Production Casing	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	43,333
7019220	Drilling Rig - day work/footage	596,267
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)	71,000
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 Opimers, 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	21,467
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	91,733
7018150	Rig Equipment and Misc.	11,467
7001110	Telecommunications Services	5,000
7001120	Consulting Services	107,787
7001400	Safety and Environmental	36,693
7018120	Rental Buildings (trailers)	18,347
7019310	Coring (sidewalls & analysis)	-
7011010	7% Contingency & Taxes	173,509
TOTAL DRILLING - INTANGIBLE		\$2,060,202

TOTAL DRILLING COST

\$2,652,202

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 1/29/2019

Asset Team PERMIAN
Field Purple Sage; Wolfc FORMATION: Wolfcamp A
Lease/Facility Tiberius 33 WA FC 17H

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 & comp)	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	21,000
7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
7019350	Well Services-Well/Wellhead Services	47,500
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	\$ 95,000
TOTAL DRILLING COST	\$ 2,652,202
TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,162,632

Participant's Approval

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

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

DATE 1/29/2019
DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD
COMPLETION PREPARED BY JOSH SHANNON
FACILITIES PREPARED BY MATT HENSCHEN
ARTIFICIAL LIFT PREPARED BY BILLY MOORE/MATT HE

Asset Team	PERMIAN			
Field	Purple Sage, Wolfc	FORMATION: Wolfcamp XY	WILDCAT	EXPLORATION
Lease/Facility	Tiberius 33 WXY FC 20H		DEVELOPMENT	RECOMPLETION
Location	EDDY COUNTY		X EXPLOITATION	WORKOVER
Prospect	MALAGA			

Est Total Depth	20,165	Est Drilling Days		Est Completion Days	5.5
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LOCATION COST - INTANGIBLE

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

DRILLING COST - TANGIBLE

7012050	Conductor Pipe	26,000
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 & Cag Accessories	55,000
7012550	Drilling Wellhead Equipment	50,000
7012040	Casing & Tubing Access	24,000
7012270	Miscellaneous MRO Materials	5,000
TOTAL DRILLING - TANGIBLE		591,000

DRILLING COST - INTANGIBLE

7019200	Drilling Rig Mob/Demob	43,333
7019220	Drilling Rig - day work/footage	596,267
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)	71,000
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	21,467
7019350	Well Services - Well/Wellhead Services	10,000
7018150	Rental Tools and Equipment (surface rentals)	91,733
7018150	Rig Equipment and Misc.	11,467
7001110	Telecommunications Services	5,000
7001120	Consulting Services	107,787
7001400	Safety and Environmental	36,693
7018120	Rental Buildings (trailers)	18,347
7019310	Coring (sidewalls & analysis)	-
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TOTAL DRILLING COST

\$2,652,202

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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; Wolfc; FORMATION: Wolfcamp XY
 Lease/Facility Tiberius 33 WKY FC 20H

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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
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7018150	CT Downhole Rental Equipment (ie. Bit, BHA)	-
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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
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7012040	Tubing Accessories (nipple, wireline entry)	5,000
7012550	Wellhead Equip	5,000
7012560	Packers - Completion Equipment	5,000
7006640	Company Labor	6,000
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7012480	Rod Pumping, Sucker Rods & Rod Pump	-
7012140	Elect Sub Pumps (ESP)	-
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7012550	Surface Wellhead Equipment	3,000
7012390	Pig Launchers/Receivers & Rel Equip	-
7011010	Contingency & Taxes	5,000
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TOTAL ARTIFICIAL LIFT COST		\$ 169,500

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TOTAL COMPLETIONS COST	\$ 6,406,200
TOTAL SURFACE EQUIPMENT COST	\$ 839,730
TOTAL ARTIFICIAL LIFT COST	\$ 169,500
GRAND TOTAL COST	\$10,162,632

Participant's Approval

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

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. 20311

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 17th day of April, 2019 by Deana M. Bennett.




Notary Public

My commission expires: _____



FCC LLC FBO RICHARD A BILLS, IBA	LATIGO RANCH, LLC	KASTMAN OIL COMPANY	DATED 7/11/06
JOHN D MILLER REVOCABLE LIVING TRUST	JOHN D MILLER REVOCABLE LIVING TRUST	COMMUNITY PROPERTY	SOLE-401 (1) #C08981
RICHARD B & MARGARET N SANFORD	STERLING TRUST CO FBO JOAN WELTZEN,	JOHN M WELTZEN, IBA #064545	
STERLING TRUST COMPANY FBO	KESTER TRUST COMPANY FBO		
KEITH RAYMOND & HAZEL JEAN LAWS	CHINE FAMILY TRUST, GEORGE NEW KEE &	YOKO ISA CHING, TTEES	
THE JOHNSON FAMILY TRUST, WILLIAM	NEAL SKOK AND JANET SKOK	& JOAN JOHNSON, TTEES	
WOODLEY PROPERTIES, LLC	WOODLEY PROPERTIES, LLC		
MAN BUN WONG AND MICHELLE M WONG	PATTI HULVERSHORN LIVING TRUST		
TAE CHENG AND JUNG TACK KIM	THE EMMES AND JUNG TACK KIM		
OSAN ENTITIES, LLC A FLORIDA LIMITED	SUSAN WELTZEN REVOCABLE TRUST	WARD & JO M JENNINGS TRUST	
MAX M & MARILYN H MATTHEWS LWNG TRST	DR-LLC	LIABILITY COMPANY	
DONALD R & PAMELA C CLOWTHER	ER RESIDENTIAL INVESTMENTS, LLC		
COCKE AND HAYNATHEN	JOHN & BOB LEE TRUST, TITVROS		
EM EVANS JR/NOBLE WINSTON ROYALTES LLC	RICHARD B WETHERILL	PROTECTION TRUST	
PALLINE LESLEY TEASDALE ASSET	SERRA LEE, LLC		
GERALDAN ANN & DAVID G NEWGAARD	TERRY G HAUGEN AND BARBARA J HAUGEN	REVOC TRUST OTD 4/16/1993	
CAROL J LARKINS AND MICHAEL C LARKINS	MARCIA J CAMPBELL AND ERNIE L CAMPBELL	FAMILY TRUST DTD 4-6-99	
FIRST FINANCIAL GROUP, LC	DONALD J CAMPBELL & VIOLET M CAMPBELL	DTD 12/5/06	
MUKAI AND MICHIKO MUKAI, TTEES	ROBERT LANE AND SARAH LANE REVOCABLE		
PERSHING LLC FBO ROGER O NOLTE	CLEO F & DONALD W HOEGEMEYER		
ROGER L PETRIE AND CAROLINE S PETRIE	GORDON G PETRIE AND MELANIE S PETRIE		
PERSHING LLC AS CUSTODIAN	ALF HJ33069587 FBO HAROLD F DORCH	RON L DELLELLS, IBA 33K442765	
THE FLETCHER BOWMAN TRUST	MICHAEL MCGIBBIN AND HELENE SOGBORN	PERSHING LLC AS CUSTODIAN	
JOHN CELLS	DENNIS W VOOS REVOCABLE FAMILY TRUST		
ALBERT C & MARILYN N SYDES FAMILY TRUST	JAMES SUN YU JAM REVOCABLE LIVING TRUST		
TRU NGUYEN AND HAI DAM TI	STEVEN CRAIG POTTER		
THE SEUI PAUL HORIO LIVING TRUST	CARL F BURGER AND GAIL S BURGER	BENFT OF MICHELLE SCHAEFER	
AUDREY W. ADAMS	LESTER FAMILY, LLC		
OPPORTUNITY ENERGY INCOME FUND	THE THOMAS T GEORGES JR REVOCABLE TRUST		
THE PAMELA GEORGES LIVING TRUST	QINGLING JENNY LU		
RICHARD L GREEN AND BETTIE J GREEN JTWROS	JOHN B CUNNING AND CAROL A CUNNING		
THE SANDRA FARWELL EIKE REVOCABLE TRUST	DIGHT L BARRY TRUST		
NIGHTHAWK ROYALTES, LLC	IN YOUNG KIM AND YOON KIM, K TRUSTEES		
COOGAN FAMILY TRUST DATED 3-16-87	LA CRUZ LP	DATED 9-30-88	
OWEN A ELLIS AND SANDRA R ELLIS	SHARON S BELL		
THE DENNY DENNENY LIVING TRUST	LUISSES ELLER AND SHARLES BAUER		
ROBERT T YAMATO LUTTHS YAMATO TTEES	DENNIS AND PATRICIA MOREAU FAMILY TRUST		
H J & F FAMILY LIMITED PARTNERSHIP	SND INVESTMENTS LP		
FRAZER FAMILY PARTNERSHIP, LP	WERNICK WONG KOONG LEE RLT	DTD OCTOBER 23, 2002	
MARGARET ANN LEE REV LIVING TRUST	JOHN H RILL AND FRANCES B HILL, 1988 TRUST	DATED 23 OCTOBER 2002	
CHARLES R DENNEY AND JOAN A DENNEY	MARILYN BROEDERS	DATED 10/4/88	
DOMINICK REALTY, LLC			

[illegible]

9314869904300056219306	2019-02-26 10:07 AM	81363-0166	THE ERNIA MARTIN BEUTEL TRUST	DTD AUGUST 21, 1986	CONCORD	CA	94519	To be Returned	Return Receipt - Electronic	157476
9314869904300056219290	2019-02-26 10:07 AM	81363-0166	RICHARD P KONDO	1754 HUMPHREY DRIVE	South Hamilton	MA	01982	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219283	2019-02-26 10:07 AM	81363-0166	JOHN DAVID GRISBAUM	3006 Bee Caves Road, Ste. CL50	AUSTIN	TX	78746	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219276	2019-02-26 10:07 AM	81363-0166	MDC PARTNERS, LP	152 Sundown CV	MADISON	MS	39110	Delivered	Return Receipt - Electronic	157476 03-02-2019
9314869904300056219269	2019-02-26 10:07 AM	81363-0166	CHARLES H PHILLIPS AND LINDA PHILLIPS	6045 Canfield	Alpharetta	GA	30022	Delivered	Return Receipt - Electronic	157476 03-04-2019
9314869904300056219254	2019-02-26 10:07 AM	81363-0166	FET TATUM REALTY, LLC	157 TIMBERTON DRIVE	HATTIESBURG	MS	39401	Delivered	Return Receipt - Electronic	157476 03-04-2019
9314869904300056219245	2019-02-26 10:07 AM	81363-0166	FREDRICK AND SUSAN ASHBAUGH REVOCABLE	1513 Cross Creek Drive	Raymore	MO	64083	Delivered	Return Receipt - Electronic	157476 03-02-2019
9314869904300056219238	2019-02-26 10:07 AM	81363-0166	GNI OIL AND GAS, LLC	841 BISHOP STREET, SUITE 1000	HONOLULU	HI	96813	Delivered	Return Receipt - Electronic	157476 03-04-2019
9314869904300056219214	2019-02-26 10:07 AM	81363-0166	PASCOE FAMILY INVESTMENTS, LLC	9400 ETCHART ROAD	BAKERSFIELD	CA	93314	Delivered	Return Receipt - Electronic	157476 03-22-2019
9314869904300056219211	2019-02-26 10:07 AM	81363-0166	Charles R. Viggins	PO Box 10862	Midland	TX	79702	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219207	2019-02-26 10:07 AM	81363-0166	Mountain Lion Oil and Gas, LLC	7941 Katy Freeway #117	Houston	TX	77024	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219191	2019-02-26 10:07 AM	81363-0166	Suannah D Adelson, Trustee of the	15 East 5th Street, Suite 3300	Tulsa	OK	74103	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219184	2019-02-26 10:07 AM	81363-0166	Zunie Energy, LLC	PO Box 10253	Midland	TX	79702	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219177	2019-02-26 10:07 AM	81363-0166	Eastland Resources, Inc	P O Box 670988	Midland	TX	79702	Delivered	Return Receipt - Electronic	157476 03-11-2019
9314869904300056219170	2019-02-26 10:07 AM	81363-0166	Kimberly Royalties, LP	P O Taylor Street, Ste 800	Dallas	TX	75367	Delivered	Return Receipt - Electronic	157476 03-05-2019
9314869904300056219159	2019-02-26 10:07 AM	81363-0166	Kimball Hill Holdings, LLC	305 West Wall Street, Ste 500	Midland	TX	79701	Delivered	Return Receipt - Electronic	157476 03-05-2019
9314869904300056219146	2019-02-26 10:07 AM	81363-0166	Colgate Production, LLC	117 1st Avenue West	Midland	TX	79707	Delivered	Return Receipt - Electronic	157476 03-05-2019
9314869904300056219139	2019-02-26 10:07 AM	81363-0166	Pamela Power Burton	3523 Starlinell Ave	Houston	TX	77027	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219122	2019-02-26 10:07 AM	81363-0166	David Lee Power	801 Louisiana Street, Suite 700	Denver	CO	80237	To be Returned	Return Receipt - Electronic	157476
9314869904300056219115	2019-02-26 10:07 AM	81363-0166	Goodrich Petroleum Company of Louisiana	4350 South Monaco Street, 5th Floor	Dallas	TX	75201	To be Returned	Return Receipt - Electronic	157476
9314869904300056219108	2019-02-26 10:07 AM	81363-0166	Sibro Oil & Gas, LLC	325 North St. Paul Ste 4800	Oklahoma City	OK	73116	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219092	2019-02-26 10:07 AM	81363-0166	J Cleo Thompson/James Cleo Thompson Jr.	1001 West Wilshire, Suite 206	Dallas	TX	75240	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219085	2019-02-26 10:07 AM	81363-0166	Novo Oil & Gas Northern Delaware, LLC	5400 LBJ Freeway, Suite 1500	Albuquerque	NM	87125	To be Returned	Return Receipt - Electronic	157476
9314869904300056219061	2019-02-26 10:07 AM	81363-0166	MRC Permian Company	P.O. Box 26887	Houston	TX	77002	Delivered	Return Receipt - Electronic	157476 03-01-2019
9314869904300056219054	2019-02-26 10:07 AM	81363-0166	Estate of Martha R. Schalk, deceased	801 Louisiana Street, Suite 700	Dallas	TX	75240	To be Returned	Return Receipt - Electronic	157476
9314869904300056219047	2019-02-26 10:07 AM	81363-0166	Goodrich Petroleum Company of Louisiana	P.O. Box 26887	Albuquerque	NM	87125	To be Returned	Return Receipt - Electronic	157476
9314869904300056219030	2019-02-26 10:07 AM	81363-0166	Joseph Wm. Foran	P.O. Box 26887	Albuquerque	NM	87125	To be Returned	Return Receipt - Electronic	157476
9314869904300056219023	2019-02-26 10:07 AM	81363-0166	Stephen Paul Schalk Trustee of	P.O. Box 25825	Albuquerque	NM	87125	To be Returned	Return Receipt - Electronic	157476
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9314869904300056219009	2019-02-26 10:07 AM	81363-0166	Claudia Short	1200 17th St. Suite 2610	Denver	CO	80202	Delivered	Return Receipt - Electronic	157476 03-14-2019
9314869904300056218996	2019-02-26 10:07 AM	81363-0166	Estate of Martha R. Schalk, deceased	4000 N Big Spring Street, Suite 500	Midland	TX	79702	Delivered	Return Receipt - Electronic	157476 03-18-2019
9314869904300056218989	2019-02-26 10:07 AM	81363-0166	Hooker Energy, LLC, c/o First Financial Trust	2370 North Ave, JHHS	Upland	CA	91786	To be Returned	Return Receipt - Electronic	157476
9314869904300056218972	2019-02-26 10:07 AM	81363-0166	Roemer Oil Company	126 Passaic Street	North Plainfield	NJ	70600	Delivered	Return Receipt - Electronic	157476 03-14-2019
9314869904300056218965	2019-02-26 10:07 AM	81363-0166	EDG Resources, Inc.	Star Route 2	Newark	NJ	07104	Lost	Return Receipt - Electronic	157476
9314869904300056218958	2019-02-26 10:07 AM	81363-0166	Alan D Tuck, Jr & Evelyn Tuck	3000 North Ocean Drive, # 38F	Lamesa	TX	79331	To be Returned	Return Receipt - Electronic	157476
9314869904300056218941	2019-02-26 10:07 AM	81363-0166	Chester J Stuebben	306 West Wall Street, Ste 500	Midland	TX	79701	Delivered	Return Receipt - Electronic	157476
9314869904300056218934	2019-02-26 10:07 AM	81363-0166	Sandra Wische							
9314869904300056218934	2019-02-26 10:07 AM	81363-0166	Larry Turner							
9314869904300056218927	2019-02-26 10:07 AM	81363-0166	John Mdsac							
9314869904300056218910	2019-02-26 10:07 AM	81363-0166	Colgate Production, LLC							

CARLSBAD
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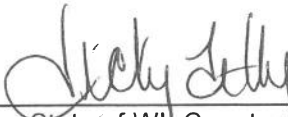
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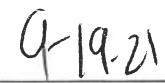
I, a legal clerk of the **Carlsbad Current-Argus**,
a newspaper published daily at the City of
Carlsbad, in said county of Eddy, state of New
Mexico and of general paid circulation in said
county; that the same is a duly qualified
newspaper under the laws of the State wherein
legal notices and advertisements 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:

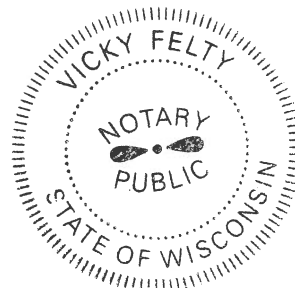
03/05/19


Legal Clerk

Subscribed and sworn before me this
5th of March 2019.


State of WI County of Brown
NOTARY PUBLIC


My Commission Expires



Ad#:0001279121
P O : 0001279121
of Affidavits :0.00

CASE NO. 20311: Notice to all affected parties, as well as the heirs and devisees of Colgate Production, LLC, John McIssac, Larry Turner, Sande Wische, Chester J Stuebben, Alan D Tuck, Jr & Evelyn Tuck, EOG Resources, Inc., Roemer Oil Company, Hooker Energy, LLC, c/o First Financial Trust & Assessment Mngmnt Co, Estate of Martha R. Schalk, deceased, Claudia Short, Stephen Paul Schalk, Trustee of the Karen Schalk Family Trust, Stephen Paul Schalk Trustee of the Schalk Family Trust, Joseph Wm. Foran, Goodrich Petroleum Company of Louisiana, Estate of Martha R. Schalk, deceased, MRC Permian Company, Novo Oil & Gas Northern Delaware, LLC, J Cleo Thompson/James Cleo Thompson Jr. , Sisbro Oil & Gas, LLC, Goodrich Petroleum Company of Louisiana, David Lee Power, Pamela Power Burton, Colgate Production, LLC, Kimbell Royalty Holdings, LLC, Bitter End Royalties, LP, Eastland Resources, Inc, George R Jones and wife, Mae Margaret Jones, Zunis Energy, LLC, Susannah D Adelson, Trustee of the James Adelson & Family 2015 Trusts, Mountain Lion Oil and Gas, LLC, Charles R. Wiggins, Pascoe Family Investments, LLC, Gni Oil And Gas, LLC, Fredrick And Susan Ashbaugh Revocable Living Trust, Fet Tatum Realty, LLC, Charles H Phillips And Linda Phillips, Trustees Phillips Living Trust, Mdc Partners, LP, John David Grisebaum, Richard P Kondo, The Erna Martin Beutel Trust, Benjamin White, Mitchell 5, Inc., Edgar W Gee And Alice C L Gee, Loren E Snyder, Lenexa Plaza Investors, Inc., Premier Trust, Inc. Agent For Davidson Family Trust, Olaf E Gjovik, Min Jen Shao And Tessa Shao, Baystate Condominiums, LLC, Victorian Inn Of Paris, Inc., Michael Kc & Fanny Dea Lai, Bernard A Stoeckman And Bonita M Stoeckman, L Marie Dubuque, S R Bless Investments, LLC, McClure Ohana Properties, LLC, Dot Development Corp, Larry R Brookhart And Ellen R Brookhart, Elizabeth Franciska Brackmann, Byron Parsons Ira, Gail Johnson Miller Trustee Of Miller Family Trst, Steven K Sterzer, Md, Inc Pension Plan, Shields Rentals, LP, A Muze, LLC, The Bobmar Trust, Dated June 24, 1994, D&R Family LP, Ptl Funding Inc, Gp, Robert De Klotz, President, Hucul Oil, LLC, Michael P Kanan, Ingrid M Bangers, The Macknet Insurance Trust, Robert C And Kathleen M Sangster Charitable Remainder Trust, Karen N Crane-Mcnab, Ara Kasparian DbA Ak Co, Thomas Paine 2006 Trust Dtd 10-13-06 Eric M Schwartz, Itee, Daniel Camejo And Jacqueline Camejo, Bruce Huntress Kendall, Jr And Andrea Yee, Wayne E Arnold, Family Trust, Jack Bodger And Cynthia Bodger, Michael Wyman, Allen Burnham, Ronald S Petersen Trust, Whistlewood LLC, Marie E Nevins, Pershing LLC FBO Paul I Dilcher, Robert Earle Allen, Ram Development Group, Constance T Lucy Gst Trust, John W Manske Revocable Trust, Edward E Miller, Owl Ventures, LLC, E & B Larsen Family Investments, Erik Larsen/B Larsen Mngrs, The Eileen Pond Brunt Family Trust, The Reed Trust Dated 6/1/05, David S Reed, Elenor Reed, Trustees, Bernetta F Burstyn, Revocable Living Trust , Best Investment Services, Inc, Timothy And Mary Dolores Allwardt , Gordon B Knight Revocable Living Trust, The Christopher B Knight Trust, James David Cahill, Diana P Mace, Jeffrey D Klatt, Pendleton Family Trust Dtd July 9, 1990, Seacon Construction Employee, Joan D Nimtz Family Trust Dtd 7/1/99, The Stoll Family

Trust Dated 7/21/88, The Mccamon Family Trust Dated 10-1-02, Daniel Jerome Stoll & Joann Stoll Trust, PMA Realty Series, LLC, The Gordon E Nimtz Family Trust, Barry Limited Partnership, Hylen Trust Dated 3-27-91, As Amended, Dynamic Plumbing Systems, Inc., Pgmgi Ttee FBO Standard Group Reinsurance Co Steve Burke, Pershing LLC Robert & Karen Mankin Trust, Joan F Welch Revocable Living Trust, Lily Hing Ping Siu, Cot Giang And Ngo Beo Giang Rev Trust, Pershing LLC Nanette Buccola Trustee, Robert L Simon & D'marie Simon Trustees Of The 1986 Simon Family Trust, Daniel & Donna Darling Rev Trust, Bastille Living Trust, Ditched Dad Realty Trust, Kenneth W Morris And Harvey L Morris, Michael And Norma Hansen Family Trust, Lois J Adduci And Tracy A Laird Jtwros, Robert R & Penelope Gustafson Liv Trust, Bonnie R Weise, Andrew Hans Reger And Gina Marie Reger, Dominick Realty, LLC, Marilyn Brodersen, Charles R Denney And Joan A Denney, John H Hill And Frances B Hill 1988 Trust, Margaret Ann Lee Rev Living Trust, Wrenwick Kwock Koong Lee Rlt, Frazier Family Partnership, LP, Smd Investments LP, H J & K Family Limited Partnership, Dennis And Patricia Moreau Family Trust, Robert K Yamato Judith S Yamato, Ttees, Ulysses E Bauer And Shirley A Bauer, Marcia Read Sweeney Living Trust, Sharon S Bell, Owen A Ellis And Sandra R Ellis, Robert Duncan And Heidi Duncan, La Cruz LP, Coogan Family Trust Dated 3-16-87, In Young Kim And Yoomi Kim, Trustees, Nighthawk Royalties, LLC, David L Barry Trust, The Sandra Farwell Eike Revocable Trust, John B Cunning And Carol A Cunning, Richard L Green And Bettye J Green Jtwros, Qingling Jenny Lu, The Pamela Georges Living Trust, The Thomas T Georges Jr Revocable Trust Benft Of Michelle Schaffer, Opportunity Energy Income Fund, Lester Family, LLC, Audrey W. Adams, Carl F Burger And Gail S Burger, The Seiji Paul Horio Living Trust, Uribe Family Trust "A" Dtd 2-28-68, Steven Craig Potter, Tu Nguyen And Hai Dam Ti, James Sun Yu Lam Revocable Living Trust, Albert C & Marilyn K Sykes Family Trust, Dennis W Voos Revocable Family Trust, John C Ellis, Michael Sokobin And Helene Sokobin, The Myrtle I Boykin Trust, IRA #13v096957 FBO Harold F Doench Pershing LLC As Custodian, Pershing LLC As Custodian Ron L Delellis, Gordon G Petrie And Melanie S Petrie, Roger L Petrie And Caroline S Petrie, James H Spilker, Cleo F & Donald W Hoegemeyer, Fred Barrie And Margaret Barrie Ttees, Carl And Virginia Lischeske Living Trust, Pershing LLC FBO Roger O Nolte, Robert Lane And Sara A Lane Revocable Family Trust, Mukai And Michiko Mukai, Ttees, Donald J Campbell & Violet M Campbell Revoc Trust, First Financial Group, LC, Marcia K Campbell And Ernie L Campbell, Carol J Larkins And Michael C Larkins, Terry G Haugen And Barbara J Haugen, Geraldean Ann & David G Newgaard, Sierra Lee, Lc, Pauline Lesley Teasdale Asset Protection Trust, Richard B Wetherell, E W Evans Jr/Noble Windom Royalties LLC, John B & Carol A Cunning, Jtwros, Jacqueline Kanya-Matzen, Er Residential Investments, LLC, Donald Dale Gerald, David R & Pamela C Lowther, DF LLC, Max M & Marilyn H Matthews Lvng Trst, Susan Ivison Revocable Trust, Obi Entities, LLC, A Florida Limited Liability Company, The Jennings Family Revocable Trust Ward L & Jo Jennings Ttees, Tae Cheol And Jung Taick Min, Patti Hulvershorn

Living Trust, Man Bun Wong And Michelle M Wong, Woodley Properties, LLC, Neal Skok And Janet Skok, The Johnston Family Trust, William & Joan Johnston, Ching Family Trust, George Niew Kee & Yoko Isa Ching, Keith Raymond & Hazel Jean Laws, Sterling Trust Company FBO John M Weltzien, Sterling Trust Co FBO Joan Weltzien, Richard B & Margaret M Sanford Community Property, John D Miller Revocable Living Trust, Kastman Oil Company, Latigo Ranch, LLC, FCC LLC FBO Richard A Bills, Ira, Lawrence J Alter Md & Randi K Alter Tic, Keenan And White Defined Benefit Plan, The Channave Family Trust #3, Churchill Retirement Income, LLC, Fernwood Management, LLC, Jaydell Buxton And Judy Buxton, Silverleaf Holdings, LW, Delanie A Webb, Gordon Family Revocable Trust, Richard F. Gordon, Richard F Gordon, Harold L Shetler And Joyce I Shetler, Randall K Bennett And Shelley D Bennett, James Rees & Virginia U Jensen Jtwros, The Bauke Family Trust, Laura Leila Fanning & Charlene Fanning Joint Tenants, Sally & Vernon Shinkle Living Trust, Flanagan Revocable Trust, Fintan M & Carol D Flanagan Trstees, Flanagan Enterprises, Inc., Richard D Miller And Jane F Miller, David E Prue Revocable Trust, Kyle Ray , Graham, Linda Hanson, Marshall A Johnson Living Trust, Allan Family LLC, Steven H Podolsky Revocable Trust, Milton Podolsky Revocable Trust, Lynn E Schachinger Rev Living Trust, Iris O Podolsky Revocable Trust, The Iris D Podolsky LLC, Podolsky Ann Gift Trst/Terri Podolsky, Podolsky Ann Gift Trst/Alana Podolsky, Robert Stommel, J Norman & Marylou Wilkins, Max G Ruf And Hildegard Ruf Living Trust, Eric C Thormodsgard, FCCC LLC FBO Thomas L Thompson, Michael L & Linda J Thurlow Living Trust, Arnold C Greenberg, Margaret Hussey Living Trust, Deforest Properties, LLC, Pershing LLC FBO Richard W Mcmanus, JJB Royalty, LLC, Kester Family Trust Dated 5-17-95, Daryl Morrison Trust, Daryl Morrison Ttee, David George & Ella Foppiano Revocable Trust, Antonia M. Petrakos, Nancy P Levin, Trustee Of Adamson St Real Estate Trust, Michael John Fisch, Jnp Energy LLC, Rm Properties, LLC, Raymond J Basta, Gordon C. George Trust, Cyrus R Griffin And Susan G Griffin, Richard J Shaw And May J Shaw, Karl Ohs, Brian Donald Richards, Dab Gas And Oil LLC, Sas Gas And Oil LLC, The Ruth C Mcgary Charitable, Rex J Reinhart And Jean Reinhart Jtwros, Thomas L Jasper Revocable Trust, Jeffrey J Wieland, Aida E Silva, LLC, Gventures, LC Richard W Munn, Wiley Family Holdings LLC, Noble Royalty Access Fund I LP, Tas Royalty Company, PBES 18-007, LLC, Warren Ventures, Ltd, Serenity Resources, LLC, Rusk Capital Management LLC, Erika M. Sarandis, Spinnaker Oil & Gas, L.P., Richard Donnelly etux Ann Ball Donnelly, Hooker Energy, LLC, Hershel O'Kelley, Winged Foot Oil Co., Inc., Jo Ann Rustamier Stinson, Judy Lee Rustamier Makowsky, Jo Ann Rustamier Stinson/Judy Lee Rustamier Makowsky, Co-Trustees Of Marathon Oil Permian LLC's Application 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 Sections 32 and 33, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Tiberius 33 WA FC 2H; Tiberius 33 WXY FC 5H; Ti-

berius 33 WA FC 7H; Tiberius 33 WXY FC 10H; Tiberius 33 WA FC 12H; Tiberius 33 WXY FC 15H; Tiberius 33 WA FC 17H; and Tiberius 33 WXY FC 20H wells, to be horizontally drilled. The producing area for these wells will be unorthodox. 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 9 miles East of Carlsbad, New Mexico.
Pub:March 5, 2019 #1279121

“Producing Zone” and the shaded area across the cross section, along with a red arrow. That zone is continuous across the well unit.

6. **Exhibit J** is a Gross Interval Isochore of the Wolfcamp to Wolfcamp B. The gross interval of the target formations thickens slightly moving from West to East.

7. 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.

8. The preferred well orientation in this unit is East/West. This is because the SH_{max} is $\sim 35-45^\circ$ from North within this unit.

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

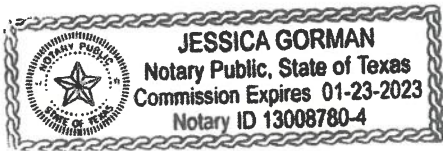
[Signature page follows]

Matt Baker
Matt Baker

SUBSCRIBED AND SWORN to before me this 16th day of April, 2019 by Matt Baker,
on behalf of Marathon Oil Permian LLC.

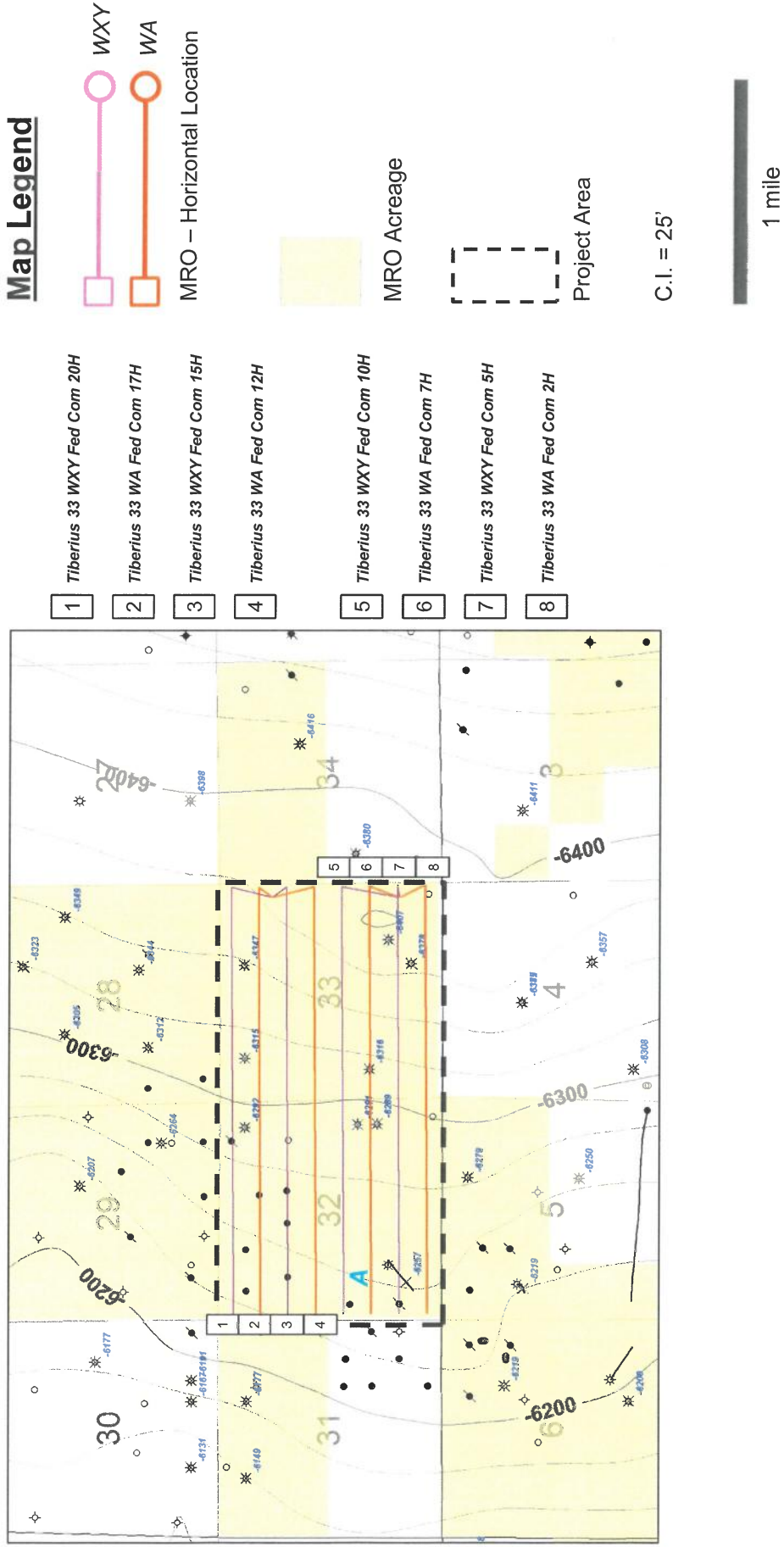
Jessica Gorman
Notary Public

My commission expires: 1/23/2023



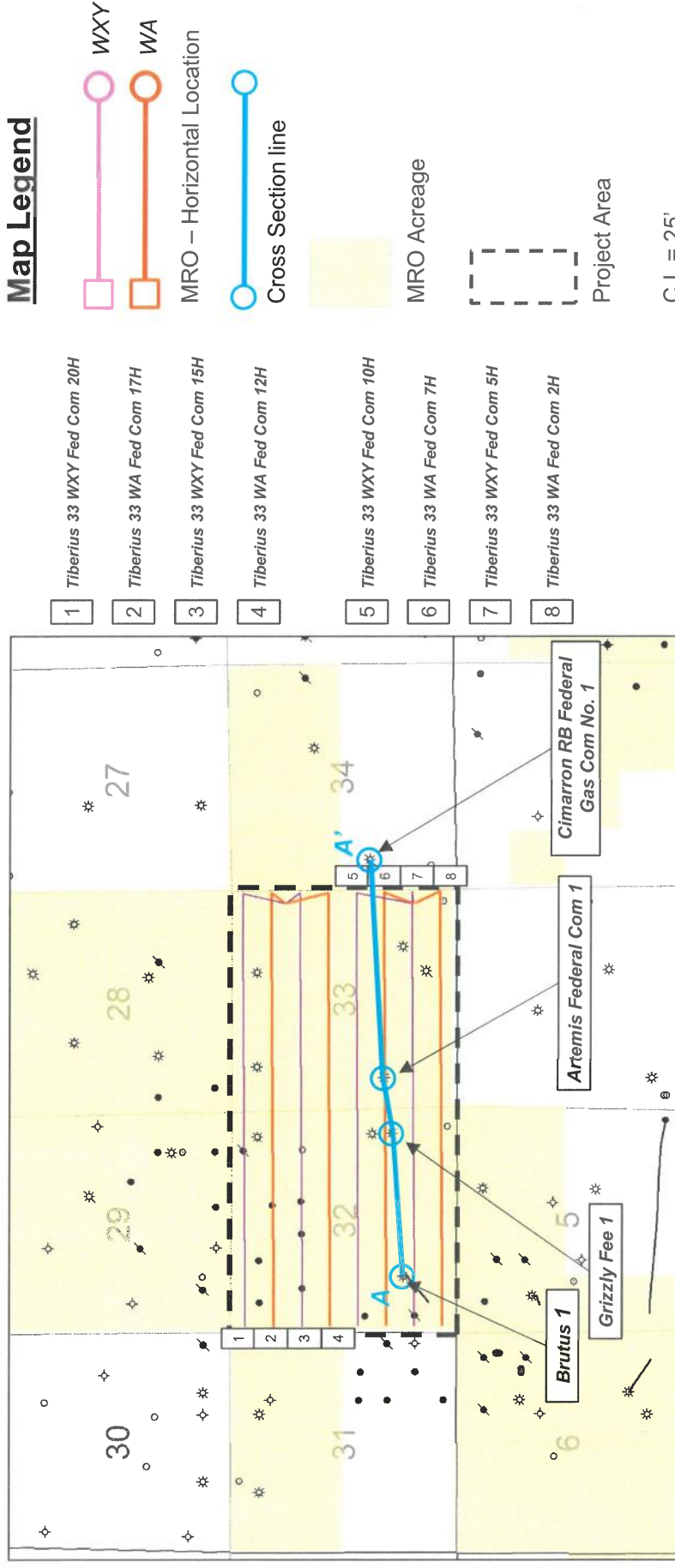
Tiberius 33 Fed Com Unit

Structure Map – Top of Wolfcamp (SSTVD)



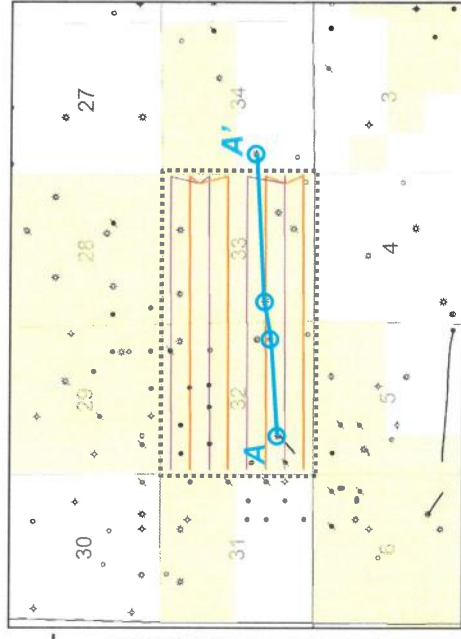
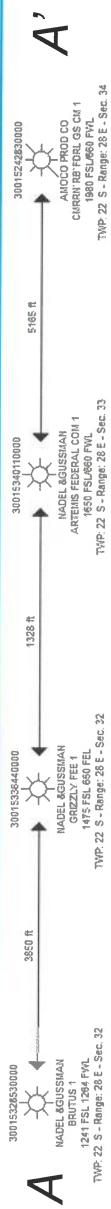
Tiberius 33 Fed Com Unit

Reference Map for Cross Section



Tiberius 33 Fed Com Unit

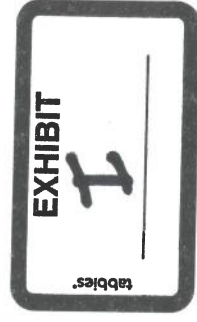
Stratigraphic Cross Section (Top Wolfcamp Datum)



Wolfcamp Y-Sand thickness
consistent across unit

Wolfcamp A thickens from West
to East

Producing
Zone



Tiberius 33 Fed Com Unit

Gross Interval Isochore – Wolfcamp to Wolfcamp B

