

# Before the Oil Conservation Division Examiner Hearing April 6, 2023

## Case No. 23348

Chaos WC Federal Com 701H, Chaos WC Federal Com 702H, Chaos WC  
Federal Com 703H, Chaos WC Federal Com 704H, Chaos WC Federal Com  
801H, Chaos WC Federal Com 802H, Chaos WC Federal Com 803H, Chaos WC  
Federal Com 804H, Chaos WC Federal Com 805H, & Chaos WC Federal Com  
806H



**Marathon Oil**

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

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

CASE NO. 23348

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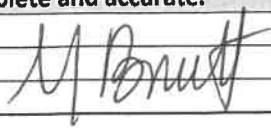
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**COMPULSORY POOLING APPLICATION CHECKLIST****ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

<b>Case: 23348</b>	<b>APPLICANT'S RESPONSE</b>
<b>Date: April 4, 2023</b>	
<b>Applicant</b>	<b>Marathon Oil Permian LLC</b>
<b>Designated Operator &amp; OGRID (affiliation if applicable)</b>	<b>Marathon Oil Permian LLC OGRID 372098</b>
<b>Applicant's Counsel:</b>	<b>Modrall Sperling</b>
<b>Case Title:</b>	<b>Application of Marathon Oil Permian LLC for Compulsory Pooling, Eddy County, New Mexico</b>
<b>Entries of Appearance/Intervenors:</b>	<b>MRC Permian/Holland &amp; Hart</b>
<b>Well Family</b>	<b>Chaos</b>
<b>Formation/Pool</b>	
<b>Formation Name(s) or Vertical Extent:</b>	<b>Wolfcamp</b>
<b>Primary Product (Oil or Gas):</b>	<b>Gas</b>
<b>Pooling this vertical extent:</b>	<b>Wolfcamp</b>
<b>Pool Name and Pool Code:</b>	<b>Purple Sage; Wolfcamp (Gas) 98220</b>
<b>Well Location Setback Rules:</b>	<b>Purple Sage Order</b>
<b>Spacing Unit</b>	
<b>Type (Horizontal/Vertical)</b>	<b>Horizontal</b>
<b>Size (Acres)</b>	<b>1920</b>
<b>Building Blocks:</b>	<b>320</b>
<b>Orientation:</b>	<b>East-West</b>
<b>Description: TRS/County</b>	<b>Sections 32, 33, and 34, Township 22 Souht, Range 28 East</b>
<b>Standard Horizontal Well Spacing Unit (Y/N), if No, describe <u>and</u> is approval of non-standard unit requested in this application?</b>	<b>Yes</b>
<b>Other Situations</b>	
<b>Depth Severance: Y/N. If yes, description</b>	<b>N</b>
<b>Proximity Tracts: If yes, description</b>	<b>Yes</b>
<b>Proximity Defining Well: if yes, description</b>	<b>The completed interval for the Chaos WC Fed Com 804H well is less than 330' from the adjoining tracts.</b>
<b>Applicant's Ownership in Each Tract</b>	<b>See Exhibit B-3.</b>
<b>Well(s)</b>	
<b>Name &amp; API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)</b>	<b>Add wells as needed</b>
<b>Well #1: Chaos WC Fed Com 701H (API Pending)</b>	<b>SHL: 872' FNL &amp; 461' FEL, Section 34, T-22-S R-28-E</b> <b>FTP: 990' FNL &amp; 330' FEL Section 34, T-22-S R-28-E BHL: 990' FNL &amp; 330'</b> <b>FWL Section 32, T-22-S R-28-E</b> <b>Orientation: East to West</b> <b>Completion Status: Standard</b>
	<b>Completion Target: Wolfcamp</b> <b>TVD: 9,615', MVD: 24,865'</b>



Well #2: Chaos WC Fed Com 702H (API Pending)	SHL: 958' FNL & 435' FEL, Section 34, T-22-S R-28-E FTP: 2310' FNL & 330' FEL Section 34, T-22-S R-28-E BHL: 2310' FNL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 9,615', MVD: 24,865'
Well #3: Chaos WC Fed Com 703H (API Pending)	SHL: 1767' FSL & 557' FEL, Section 34, T-22-S R-28-E FTP: 1650' FSL & 330' FEL Section 34, T-22-S R-28-E BHL: 1650' FSL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 9,615', MVD: 24,865'
Well #4: Chaos WC Fed Com 704H (API Pending)	SHL: 1702' FSL & 496' FEL, Section 34, T-22-S R-28-E FTP: 330' FSL & 330' FEL Section 34, T-22-S R-28-E BHL: 330' FSL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 9,615', MVD: 24,865'
Well #5: Chaos WC Fed Com 801H (API Pending)	SHL: 901' FNL & 452' FEL, Section 34, T-22-S R-28-E FTP: 330' FNL & 330' FEL Section 34, T-22-S R-28-E BHL: 330' FNL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 10,290', MVD: 25,540'
Well #6: Chaos WC Fed Com 802H (API Pending)	SHL: 930' FNL & 444' FEL, Section 34, T-22-S R-28-E FTP: 1320' FNL & 330' FEL Section 34, T-22-S R-28-E BHL: 1320' FNL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 9,970', MVD: 25,220'
Well #7: Chaos WC Fed Com 803H (API Pending)	SHL: 987' FNL & 427' FEL, Section 34, T-22-S R-28-E FTP: 1650' FNL & 330' FEL Section 34, T-22-S R-28-E BHL: 1650' FNL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 10,290', MVD: 25,540'
Well #8: Chaos WC Fed Com 804H (API Pending)	SHL: 1745' FSL & 537' FEL, Section 34, T-22-S R-28-E FTP: 2330' FSL & 330' FEL Section 34, T-22-S R-28-E BHL: 2330' FSL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 10,290', MVD: 25,540'
Well #9: Chaos WC Fed Com 805H (API Pending)	SHL: 1724' FSL & 516' FEL, Section 34, T-22-S R-28-E FTP: 990' FSL & 330' FEL Section 34, T-22-S R-28-E BHL: 990' FSL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 9,970', MVD: 25,220'
Well #10: Chaos WC Fed Com 806H (API Pending)	SHL: 1681' FSL & 475' FEL, Section 34, T-22-S R-28-E FTP: 360' FSL & 330' FEL Section 34, T-22-S R-28-E BHL: 360' FSL & 330' FWL Section 32, T-22-S R-28-E Orientation: East to West Completion Target: Wolfcamp Completion Status: Standard TVD: 10,290', MVD: 25,540'
Horizontal Well First and Last Take Points	See above cells and Exhibit B-2 (C-102s)
Completion Target (Formation, TVD and MD)	See above cells and Exhibit B-5 (proposal letter)
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	\$10,000

Production Supervision/Month \$	\$1,000
Justification for Supervision Costs	See Exhibit B Paragraph 24
Requested Risk Charge	200%
<b>Notice of Hearing</b>	
Proposed Notice of Hearing	Exhibit B-7
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit B-7
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit B-7
<b>Ownership Determination</b>	
Land Ownership Schematic of the Spacing Unit	Exhibit B-3
Tract List (including lease numbers and owners)	Exhibit B-3
If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to	NA
Pooled Parties (including ownership type)	Exhibit B-3
Unlocatable Parties to be Pooled	Exhibit B-3
Ownership Depth Severance (including percentage above & below)	NA
<b>Joinder</b>	
Sample Copy of Proposal Letter	Exhibit B-5
List of Interest Owners (ie Exhibit A of JOA)	Exhibit B-3
Chronology of Contact with Non-Joined Working Interests	Exhibit B-4
Overhead Rates In Proposal Letter	Exhibit B-5
Cost Estimate to Drill and Complete	Exhibit B-6
Cost Estimate to Equip Well	Exhibit B-6
Cost Estimate for Production Facilities	Exhibit B-6
<b>Geology</b>	
Summary (including special considerations)	Exhibit C
Spacing Unit Schematic	Exhibit C-2
Gunbarrel/Lateral Trajectory Schematic	Exhibit C-2
Well Orientation (with rationale)	Exhibit C-9
Target Formation	Exhibits C-3 to C-8
HSU Cross Section	Exhibit C-5
Depth Severance Discussion	NA
<b>Forms, Figures and Tables</b>	
C-102	Exhibit B-2
Tracts	Exhibit B-3
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit B-3
General Location Map (including basin)	Exhibit C-1
Well Bore Location Map	Exhibit C-3
Structure Contour Map - Subsea Depth	Exhibit C-3
Cross Section Location Map (including wells)	Exhibit C-4
Cross Section (including Landing Zone)	Exhibit C-5
<b>Additional Information</b>	
Special Provisions/Stipulations	NA
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
Printed Name (Attorney or Party Representative):	Deana M. Bennett
Signed Name (Attorney or Party Representative):	
Date:	April 4, 2023

4-Apr-23

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

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

CASE NO. 22348

SELF AFFIRMED DECLARATION OF FARLEY DUVALL

Farley Duvall hereby states and declares as follows:

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.
2. I have not previously testified before the Oil Conservation Division (“Division”).
3. I graduated from the University of Central Oklahoma in 2005 with a Bachelor’s Degree. I have worked as a landman with Marathon since 2017. Before joining Marathon, I worked as a landman with JC Land Management. My resume is attached as **Exhibit B.8**.
4. My area of responsibility at Marathon includes the area of Eddy County in New Mexico.
5. I am familiar with the application filed by Marathon in this case, which is attached as **Exhibit B.1**.
6. I am familiar with the status of the lands that are subject to the application.
7. I submit the following information pursuant to NMAC 19.15.4.12.A(1) in support of the above referenced compulsory pooling application.
8. The purpose of the application is to force pool all uncommitted interests into the horizontal spacing unit described below, and in the wells to be drilled in the unit.



9. 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.

10. In this case, Marathon seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying Sections 32, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico.

11. The spacing unit will be dedicated to the **Chaos WC Fed Com 701H, Chaos WC Fed Com 702H, Chaos WC Fed Com 703H, Chaos WC Fed Com 704H, Chaos WC Fed Com 801H, Chaos WC Fed Com 802H, Chaos WC Fed Com 803H, Chaos WC Fed Com 804H, Chaos WC Fed Com 805H, and Chaos WC Fed Com 806H** wells to be horizontally drilled.

12. Attached as **Exhibit B.2** are the proposed C-102s for the wells.

13. The C-102s identify the proposed surface hole locations, first take point, and bottom hole locations. The C-102s also identify the pool and pool code.

14. These wells will be located within the Purple Sage Wolfcamp Gas Pool, which is subject to special pool rules that establish 330-foot setback requirements. The wells will comply with the Purple Sage Wolfcamp pool rules.

15. There are no depth severances within the proposed spacing unit.

16. The completed interval for the **Chaos WC Fed Com 804H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed standard spacing unit for the wells.

17. **Exhibit B.3** includes a lease tract map outlining the unit being pooled. Exhibit B.3 also includes the parties being pooled, the nature, and the percent of their interests.

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

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

20. **Exhibit B.4** is a summary of my contacts with the working interest owners.

21. Marathon is the operator of the NE Loving 34 Federal 1 well, API 30-015-24718. The NE Loving 34 Federal 1 well is a gas well, and targets the Dublin Ranch; Atoka Gas pool (76130). Marathon is the only working interest owner in the NE Loving 34 Federal 1 well.

22. **Exhibit B.5** is a sample of the well proposal letter that was sent to all working interest owners. The proposal letter identifies the proposed surface hole and bottom hole locations and approximate TVD/MD for the wells.

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

24. Marathon requests overhead and administrative rates of \$10000.00/month for drilling a well and \$1000.00/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.

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



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

27. Marathon seeks to pool overriding royalty interest owners, and they were provided notice of this hearing.

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

29. **Exhibit B.7** 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, confirming that notice of the originally scheduled March 2, 2023 hearing was published on February 15, 2023.

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

31. In my opinion, the granting of this application is in the interests of conservation and the prevention of waste.

*[Signature page follows]*

I attest under penalty of perjury under the laws of the State of New Mexico that the information provided herein is correct and complete to the best of my knowledge and belief.

Dated: March 27, 2023



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Farley Duvall

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

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

CASE NO. 23348

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, 33, and 34, 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 the Sections 32, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 1920-acre, more or less, standard spacing unit.
3. Marathon plans to drill the **Chaos WC Fed Com 701H, Chaos WC Fed Com 702H, Chaos WC Fed Com 703H, Chaos WC Fed Com 704H, Chaos WC Fed Com 801H, Chaos WC Fed Com 802H, Chaos WC Fed Com 803H, Chaos WC Fed Com 804H, Chaos WC Fed Com 805H, and Chaos WC Fed Com 806H** wells to a depth sufficient to test the Wolfcamp formation. These wells will be horizontally drilled.
4. These wells will be located within the Purple Sage Wolfcamp Gas Pool, which is subject to special pool rules that establish 330 foot setback requirements.



5. These wells will comply with the Division's setback requirements for this pool.

6. The completed interval for the **Chaos WC Fed Com 804H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed standard spacing unit for the wells.

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.

WHEREFORE, Marathon requests this application be set for hearing before an Examiner of the Oil Conservation Division on March 2, 2023 and after notice and hearing as required by law, the Division enter its order:

A. Approving a standard 1920-acre Wolfcamp spacing unit;

B. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within Sections 32, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico;

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

D. Authorizing Marathon to recover its costs of drilling, equipping and completing the wells;

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

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

Respectfully submitted,

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

By: Deana M. Bennett

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

**CASE NO. 23348** : 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, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Chaos WC Fed Com 701H, Chaos WC Fed Com 702H, Chaos WC Fed Com 703H, Chaos WC Fed Com 704H, Chaos WC Fed Com 801H, Chaos WC Fed Com 802H, Chaos WC Fed Com 803H, Chaos WC Fed Com 804H, Chaos WC Fed Com 805H, and Chaos WC Fed Com 806H** wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed interval for the **Chaos WC Fed Com 804H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed spacing unit for the wells. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 3 ½ miles North of Loving, New Mexico.

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98220		<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)					
<sup>4</sup> Property Code		<sup>5</sup> Property Name CHAOS WC FEDERAL			<sup>6</sup> Well Number 701H				
<sup>7</sup> OGRID No. 372098		<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC			<sup>9</sup> Elevation 3074'				
<sup>10</sup> Surface Location									
UL or lot no. A	Section 34	Township 22S	Range 28E	Lat 1 dn	Feet from the 872	North/South line NORTH	Feet from the 461	East/West line EAST	County EDDY
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. D	Section 32	Township 22S	Range 28E	Lat 1 dn	Feet from the 990	North/South line NORTH	Feet from the 330	East/West line WEST	County EDDY
<sup>12</sup> Dedicated Acres 1920.0		<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.					

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

<p><b>LAST TAKE POINT/BOTTOM HOLE LOCATION</b> 990' FNL 330' FWL SECTION 32 NAD 83, SPCS NM EAST X: 808220.18' / Y: 492435.44' LAT: 32.35358976N / LON: 104.11673035W NAD 27, SPCS NM EAST X: 567038.08' / Y: 492375.85' LAT: 32.35346990N / LON: 104.11624105W</p>	<p><b>CORNER COORDINATES</b> NAD 83, SPCS NM EAST A - X: 621045.95' / Y: 488231.32' B - X: 618378.75' / Y: 488208.66' C - X: 613253.53' / Y: 488203.58' D - X: 607921.17' / Y: 488131.88' E - X: 607883.07' / Y: 483420.58' F - X: 613107.71' / Y: 493497.62' G - X: 618325.09' / Y: 493480.53' H - X: 623580.49' / Y: 493520.23' I - X: 623659.98' / Y: 490584.18' J - X: 623736.32' / Y: 488240.10'</p>	<p><b>CORNER COORDINATES</b> NAD 27, SPCS NM EAST A - X: 579863.58' / Y: 488171.68' B - X: 577198.42' / Y: 488149.04' C - X: 572071.26' / Y: 488144.03' D - X: 566738.97' / Y: 488072.40' E - X: 566701.00' / Y: 493360.96' F - X: 571925.58' / Y: 493437.94' G - X: 577142.89' / Y: 493430.79' H - X: 582398.22' / Y: 493460.43' I - X: 582477.84' / Y: 490524.42' J - X: 582555.91' / Y: 488180.43'</p>	<p><b>17 OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
			<p><b>18 SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Date of Survey _____ Signature and Seal of Professional Surveyor: _____</p> <p style="text-align: center; color: red; font-weight: bold; font-size: 2em;">PRELIMINARY</p> <p>Certificate Number _____</p>
<p><b>KICK OFF POINT/FIRST TAKE POINT</b> 990' FNL 330' FEL SECTION 34 NAD 83, SPCS NM EAST X: 823280.24' / Y: 492628.52' LAT: 32.35375243N / LON: 104.06796823W NAD 27, SPCS NM EAST X: 682097.86' / Y: 492488.74' LAT: 32.35363189N / LON: 104.06747167W</p>			<p><b>SURFACE HOLE LOCATION</b> 872' FNL 461' FEL SECTION 34 NAD 83, SPCS NM EAST X: 623145.89' / Y: 492645.30' LAT: 32.35407436N / LON: 104.06840239W NAD 27, SPCS NM EAST X: 582398.22' / Y: 493460.43'</p>

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Conversion

Horizontal Spacing Unit

**EXHIBIT**  
B-2

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

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

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

AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98220		<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)	
<sup>4</sup> Property Code		<sup>5</sup> Property Name CHAOS WC FEDERAL COM			<sup>6</sup> Well Number 702H
<sup>7</sup> OGRID No. 372098		<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC			<sup>9</sup> Elevation 3072'

<sup>10</sup> Surface Location

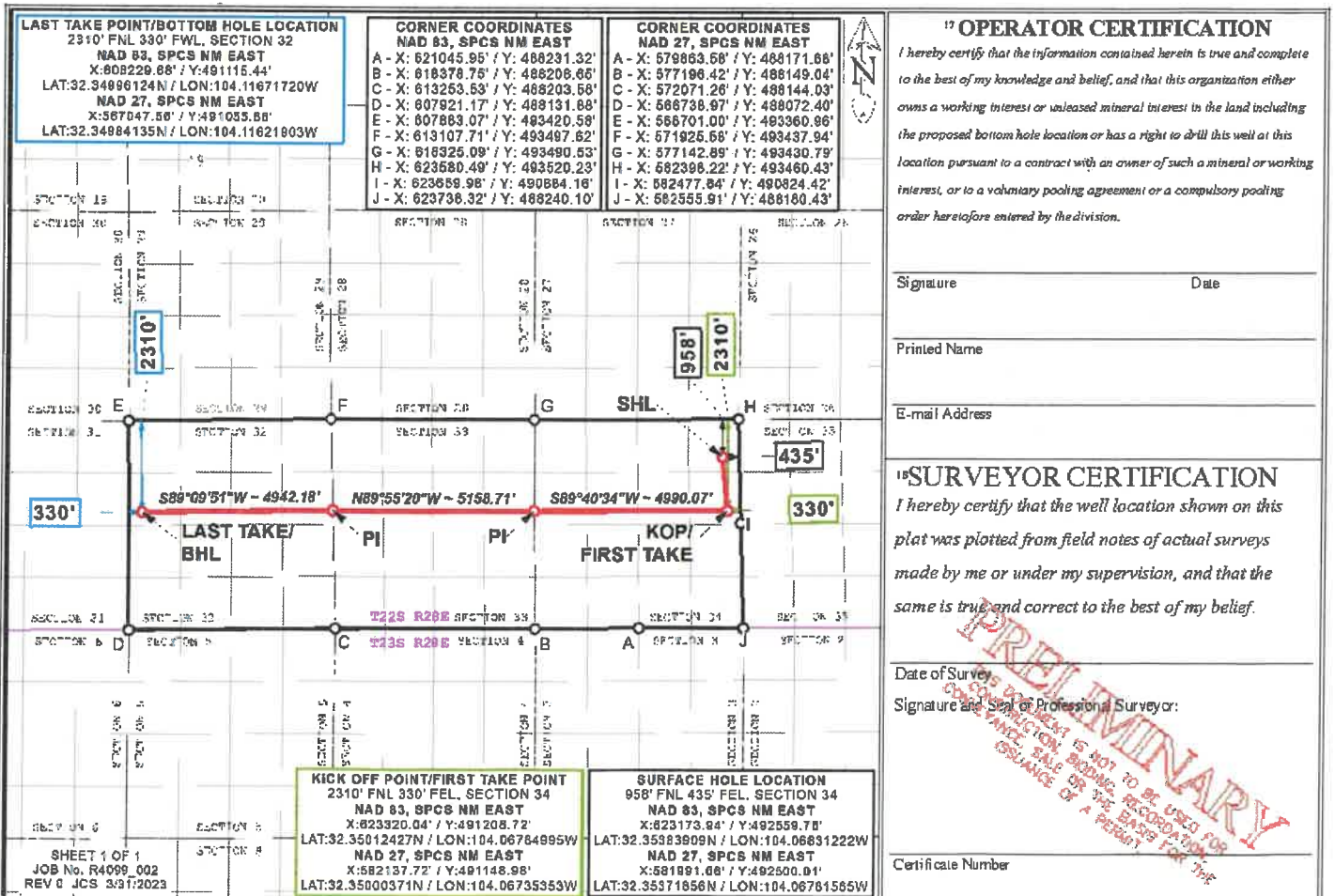
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	22S	28E		958	NORTH	435	EAST	EDDY

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	32	22S	28E		2310	NORTH	330	WEST	EDDY

<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.700012"

Horizontal Spacing Unit



**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  
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**District IV**  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

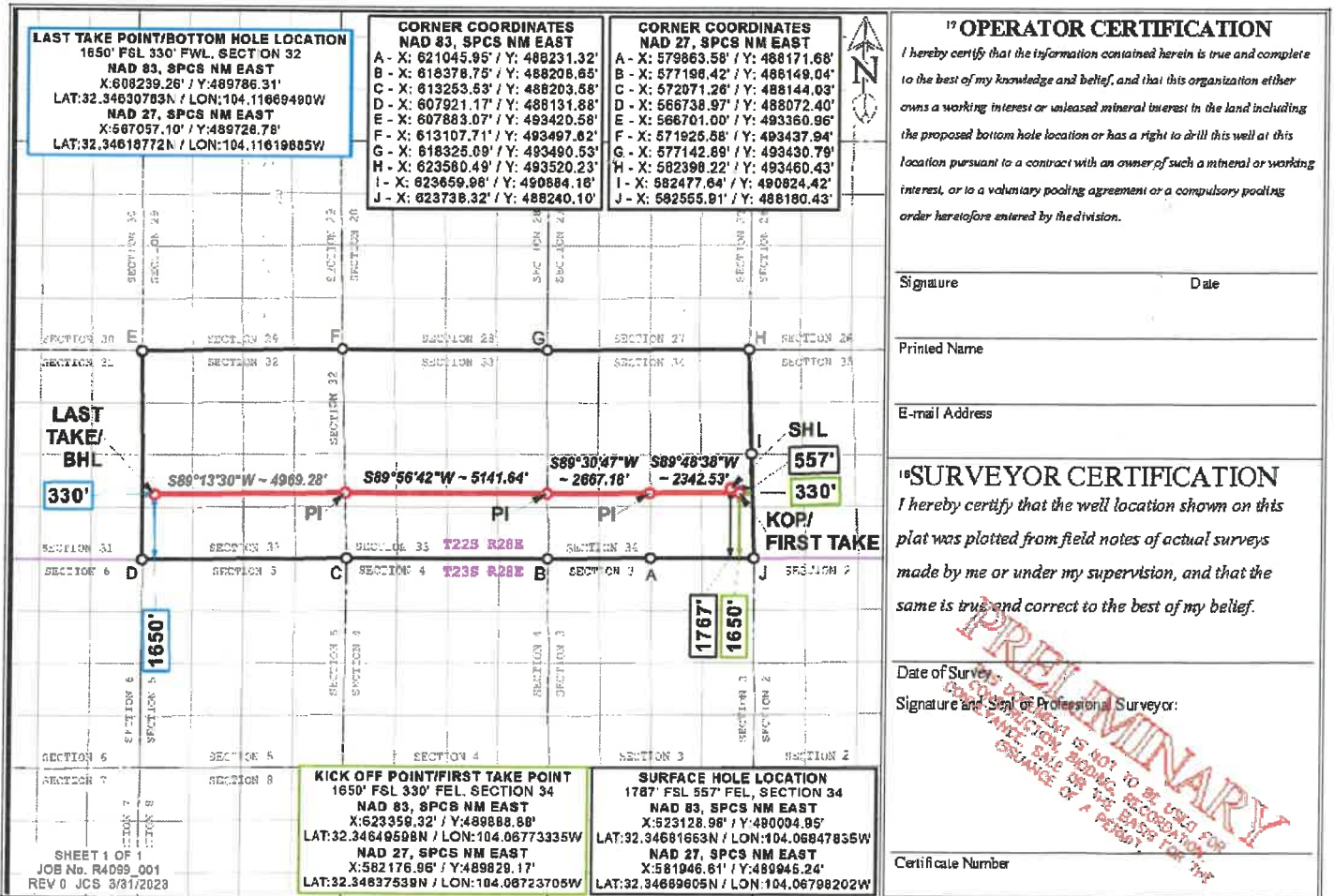
State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1, 2011  
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WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98220		<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)					
<sup>4</sup> Property Code		<sup>5</sup> Property Name CHAOS WC FEDERAL COM			<sup>6</sup> Well Number 703H				
<sup>7</sup> OGRID No. 372098		<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC			<sup>9</sup> Elevation 3056'				
<sup>10</sup> Surface Location									
UL or lot no. I	Section 34	Township 22S	Range 28E	Lot Idn	Feet from the 1767	North/South line SOUTH	Feet from the 557	East/West line EAST	County EDDY
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. L	Section 32	Township 22S	Range 28E	Lot Idn	Feet from the 1650	North/South line SOUTH	Feet from the 330	East/West line WEST	County EDDY
<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.700012"

Horizontal Spacing Unit

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WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98220		<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)	
<sup>4</sup> Property Code		<sup>5</sup> Property Name CHAOS WC FEDERAL COM			<sup>6</sup> Well Number 704H
<sup>7</sup> OGRID No. 372098		<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC			<sup>9</sup> Elevation 3055'

<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	22S	28E		1702	SOUTH	496	EAST	EDDY

<sup>11</sup> Bottom Hole Location if Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	22S	28E		330	SOUTH	330	WEST	EDDY

<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p><b>LAST TAKE POINT/BOTTOM HOLE LOCATION</b> 330' FSL 330' FWL, SECTION 32 NAD 83, SPCS NM EAST X:808248.77' / Y:488466.32' LAT:32.34267914N / LON:104.11867275W NAD 27, SPCS NM EAST X:567066.58' / Y:488406.82' LAT:32.34255920N / LON:104.11617483W</p>	<p><b>CORNER COORDINATES</b> NAD 83, SPCS NM EAST A - X: 621045.95' / Y: 488231.32' B - X: 618378.75' / Y: 488206.65' C - X: 613253.53' / Y: 488203.56' D - X: 607921.17' / Y: 488131.88' E - X: 607883.07' / Y: 493420.58' F - X: 613107.71' / Y: 493497.62' G - X: 618325.09' / Y: 493490.53' H - X: 623580.49' / Y: 493520.23' I - X: 623559.98' / Y: 490884.18' J - X: 623736.32' / Y: 488240.10'</p>	<p><b>CORNER COORDINATES</b> NAD 27, SPCS NM EAST A - X: 679863.68' / Y: 488171.66' B - X: 577196.42' / Y: 488149.04' C - X: 572071.26' / Y: 488144.03' D - X: 666738.97' / Y: 488072.40' E - X: 666701.00' / Y: 493360.96' F - X: 571926.66' / Y: 493437.94' G - X: 677142.89' / Y: 493430.79' H - X: 682398.22' / Y: 493460.43' I - X: 682477.84' / Y: 490824.42' J - X: 682555.91' / Y: 488180.43'</p>	<p><b>17 OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
<p><b>LAST TAKE/SHL 330'</b> <b>SHL 496'</b> <b>KOP/FIRST TAKE 330'</b></p> <p>Bearings and Distances: S89°13'47"W - 4996.13' S89°56'33"W - 5132.75' S89°30'45"W - 2663.02' S89°48'47"W - 2358.32'</p>			<p><b>18 SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Date of Survey _____ Signature and Seal of Professional Surveyor: _____</p>
<p><b>FIRST TAKE POINT</b> 330' FSL 330' FEL, SECTION 34 NAD 83, SPCS NM EAST X:823395.43' / Y:488589.00' LAT:32.34286760N / LON:104.06761732W NAD 27, SPCS NM EAST X:582216.04' / Y:488589.32' LAT:32.34274697N / LON:104.06712116W</p> <p><b>SURFACE HOLE LOCATION</b> 1702' FSL 496' FEL, SECTION 34 NAD 83, SPCS NM EAST X:623191.99' / Y:488940.78' LAT:32.34883975N / LON:104.06827478W NAD 27, SPCS NM EAST X:582009.63' / Y:488981.05' LAT:32.34651817N / LON:104.06777846W</p>			<p><b>PRELIMINARY</b></p> <p>THIS PLAT IS NOT TO BE USED FOR CONVEYANCE, BIDDING, RECORDATION, OR ANY OTHER PURPOSE WITHOUT THE WRITTEN CONSENT OF THE DIVISION OF OIL CONSERVATION.</p> <p>Certificate Number _____</p>

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.700012"

Horizontal Spacing Unit

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 399-6161 Fax: (575) 399-0720  
**District II**  
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Phone: (575) 748-1283 Fax: (575) 748-9920  
**District III**  
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Phone: (505) 334-6178 Fax: (505) 334-6170  
**District IV**  
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Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)
<sup>4</sup> Property Code	<sup>5</sup> Property Name CHAOS WC FEDERAL COM	<sup>6</sup> Well Number 801H
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>9</sup> Elevation 3074'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	22S	28E		901	NORTH	452	EAST	EDDY

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	22S	28E		330	NORTH	330	WEST	EDDY

<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
---	-------------------------------	----------------------------------	-------------------------

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

<p><b>LAST TAKE POINT/BOTTOM HOLE LOCATION</b> 330' FNL 330' FWL SECTION 32 NAD 83, SPCS NM EAST X: 808216.42' / Y: 493095.44' LAT: 32.35540402N / LON: 104.11675042W NAD 27, SPCS NM EAST X: 567033.34' / Y: 493035.83' LAT: 32.35528417N / LON: 104.11625206W</p>	<p><b>CORNER COORDINATES</b> NAD 83, SPCS NM EAST A - X: 621045.95' / Y: 488231.32' B - X: 618378.75' / Y: 488208.60' C - X: 613253.53' / Y: 488203.56' D - X: 607921.17' / Y: 488191.88' E - X: 607669.07' / Y: 488420.58' F - X: 613107.71' / Y: 493487.62' G - X: 618325.09' / Y: 493490.63' H - X: 623660.49' / Y: 493520.23' I - X: 623668.98' / Y: 490884.16' J - X: 623738.32' / Y: 488240.10'</p>	<p><b>CORNER COORDINATES</b> NAD 27, SPCS NM EAST A - X: 579863.58' / Y: 488171.66' B - X: 677190.42' / Y: 488149.04' C - X: 572071.26' / Y: 488144.03' D - X: 666739.97' / Y: 488072.40' E - X: 568701.00' / Y: 493360.86' F - X: 571926.58' / Y: 493437.94' G - X: 577142.89' / Y: 493430.79' H - X: 582398.22' / Y: 493460.43' I - X: 582477.64' / Y: 490824.42' J - X: 582555.91' / Y: 488160.43'</p>	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or leased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
			<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Date of Survey _____ Signature and Seal of Professional Surveyor: _____</p>
<p>SHEET 1 OF 1 JOB No. R4099_002 REV D JCS 3/31/2023</p>	<p><b>KICK OFF POINT/FIRST TAKE POINT</b> 330' FNL 330' FEL, SECTION 34 NAD 83, SPCS NM EAST X: 823280.35' / Y: 483188.42' LAT: 32.35556851N / LON: 104.06802737W NAD 27, SPCS NM EAST X: 582078.07' / Y: 483128.63' LAT: 32.35544599N / LON: 104.06753075W</p>	<p><b>SURFACE HOLE LOCATION</b> 001' FNL 452' FEL, SECTION 34 NAD 83, SPCS NM EAST X: 823155.20' / Y: 492616.78' LAT: 32.35399590N / LON: 104.06697247W NAD 27, SPCS NM EAST X: 581972.81' / Y: 492657.01' LAT: 32.35387537N / LON: 104.06787569W</p>	<p>Certificate Number _____</p>

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.700012"

Horizontal Spacing Unit

**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

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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

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 AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98220		<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)	
<sup>4</sup> Property Code		<sup>5</sup> Property Name CHAOS WC FEDERAL COM			<sup>6</sup> Well Number 802H
<sup>7</sup> OGRID No. 372098		<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC			<sup>9</sup> Elevation 3073'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	34	22S	28E		930	NORTH	444	EAST	EDDY

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	32	22S	28E		1320	NORTH	330	WEST	EDDY

<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
---	-------------------------------	----------------------------------	-------------------------

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

<p><b>LAST TAKE POINT/BOTTOM HOLE LOCATION</b> 1320' FNL 330' FEL, SECTION 32 NAD 83, SPCS NM EAST X: 608222.55' / Y: 492105.44' LAT: 32.35268263N / LON: 104.11673381W NAD 27, SPCS NM EAST X: 567040.45' / Y: 492045.86' LAT: 32.35255276N / LON: 104.11623555W</p>	<p><b>CORNER COORDINATES</b> NAD 83, SPCS NM EAST A - X: 621046.95' / Y: 488231.32' B - X: 618378.70' / Y: 488208.66' C - X: 613253.53' / Y: 488203.58' D - X: 607921.17' / Y: 488131.88' E - X: 607883.07' / Y: 493420.58' F - X: 613107.71' / Y: 493497.82' G - X: 618326.09' / Y: 493480.53' H - X: 623580.49' / Y: 493520.23' I - X: 623659.98' / Y: 490884.16' J - X: 623738.32' / Y: 488240.10'</p>	<p><b>CORNER COORDINATES</b> NAD 27, SPCS NM EAST A - X: 579863.58' / Y: 488171.68' B - X: 577196.42' / Y: 488149.04' C - X: 572071.26' / Y: 488144.03' D - X: 568738.97' / Y: 488072.40' E - X: 566701.00' / Y: 493360.98' F - X: 571926.58' / Y: 493437.94' G - X: 577142.89' / Y: 493430.79' H - X: 582398.22' / Y: 493460.43' I - X: 582477.64' / Y: 490824.42' J - X: 582555.91' / Y: 488180.43'</p>	<p><b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p>
		<p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>	
<p><b>18 SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: _____</p> <p>Certificate Number _____</p>		<p><b>PRELIMINARY</b></p> <p>THIS DOCUMENT IS NOT TO BE USED FOR CONVEYANCE, SALE OR AS EVIDENCE FOR THE PURPOSE OF A PLAT.</p>	

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.700012"

Horizontal Spacing Unit

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Energy, Minerals & Natural Resources Department  
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Santa Fe, NM 87505

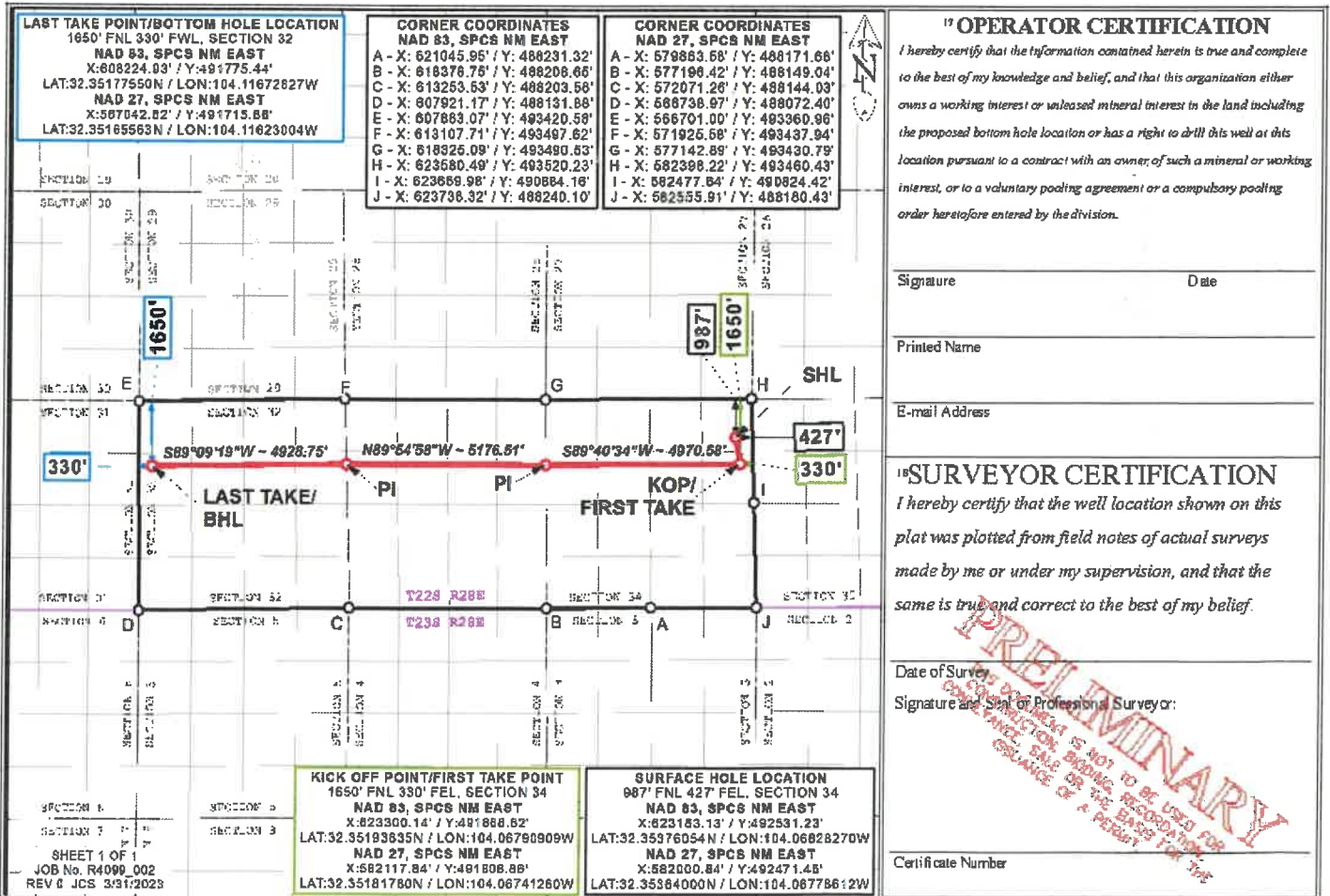
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**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98220		<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)					
<sup>4</sup> Property Code		<sup>5</sup> Property Name CHAOS WC FEDERAL COM				<sup>6</sup> Well Number 803H			
<sup>7</sup> OGRID No. 372098		<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC				<sup>9</sup> Elevation 3072'			
<sup>10</sup> Surface Location									
UL or lot no. A	Section 34	Township 22S	Range 28E	Lot Idn	Feet from the 987	North/South line NORTH	Feet from the 427	East/West line EAST	County EDDY
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. E	Section 32	Township 22S	Range 28E	Lot Idn	Feet from the 1650	North/South line NORTH	Feet from the 330	East/West line WEST	County EDDY
<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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<sup>1</sup> API Number	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)
<sup>4</sup> Property Code	<sup>5</sup> Property Name CHAOS WC FEDERAL COM	
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	<sup>6</sup> Well Number 804H <sup>9</sup> Elevation 3055'

<sup>10</sup> Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	22S	28E		1745	SOUTH	537	EAST	EDDY

<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	32	22S	28E		2330	SOUTH	330	WEST	EDDY

<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<p><b>LAST TAKE POINT/BOTTOM HOLE LOCATION</b> 2330' FSL 330' FWL, SECTION 32 NAD 83, SPCS NM EAST X:608234.36' / Y:490466.31' LAT:32.34817686N / LON:104.11870831W NAD 27, SPCS NM EAST X:567052.22' / Y:490408.78' LAT:32.34805686N / LON:104.11820820W</p>	<p><b>CORNER COORDINATES</b> NAD 83, SPCS NM EAST A - X: 621045.95' / Y: 488231.32' B - X: 618378.76' / Y: 488208.65' C - X: 613253.53' / Y: 488203.58' D - X: 607921.17' / Y: 488131.88' E - X: 607883.07' / Y: 493420.58' F - X: 613107.71' / Y: 493497.62' G - X: 618325.09' / Y: 493490.53' H - X: 623580.49' / Y: 493520.23' I - X: 623659.98' / Y: 490684.18' J - X: 623738.32' / Y: 488240.10'</p>	<p><b>CORNER COORDINATES</b> NAD 27, SPCS NM EAST A - X: 579863.58' / Y: 488171.68' B - X: 577196.42' / Y: 488149.04' C - X: 572071.26' / Y: 488144.03' D - X: 566738.97' / Y: 488072.40' E - X: 566701.00' / Y: 493360.96' F - X: 571925.58' / Y: 493437.94' G - X: 577142.89' / Y: 493430.79' H - X: 582398.22' / Y: 493460.43' I - X: 582477.84' / Y: 490824.42' J - X: 582555.91' / Y: 488180.43'</p>	<p><b>17 OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
			<p><b>18 SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>Date of Survey _____ Signature and Seal of Professional Surveyor: _____</p> <p><b>PRELIMINARY</b></p> <p>Certificate Number _____</p>

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.700012"  
 Horizontal Spacing Unit

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

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

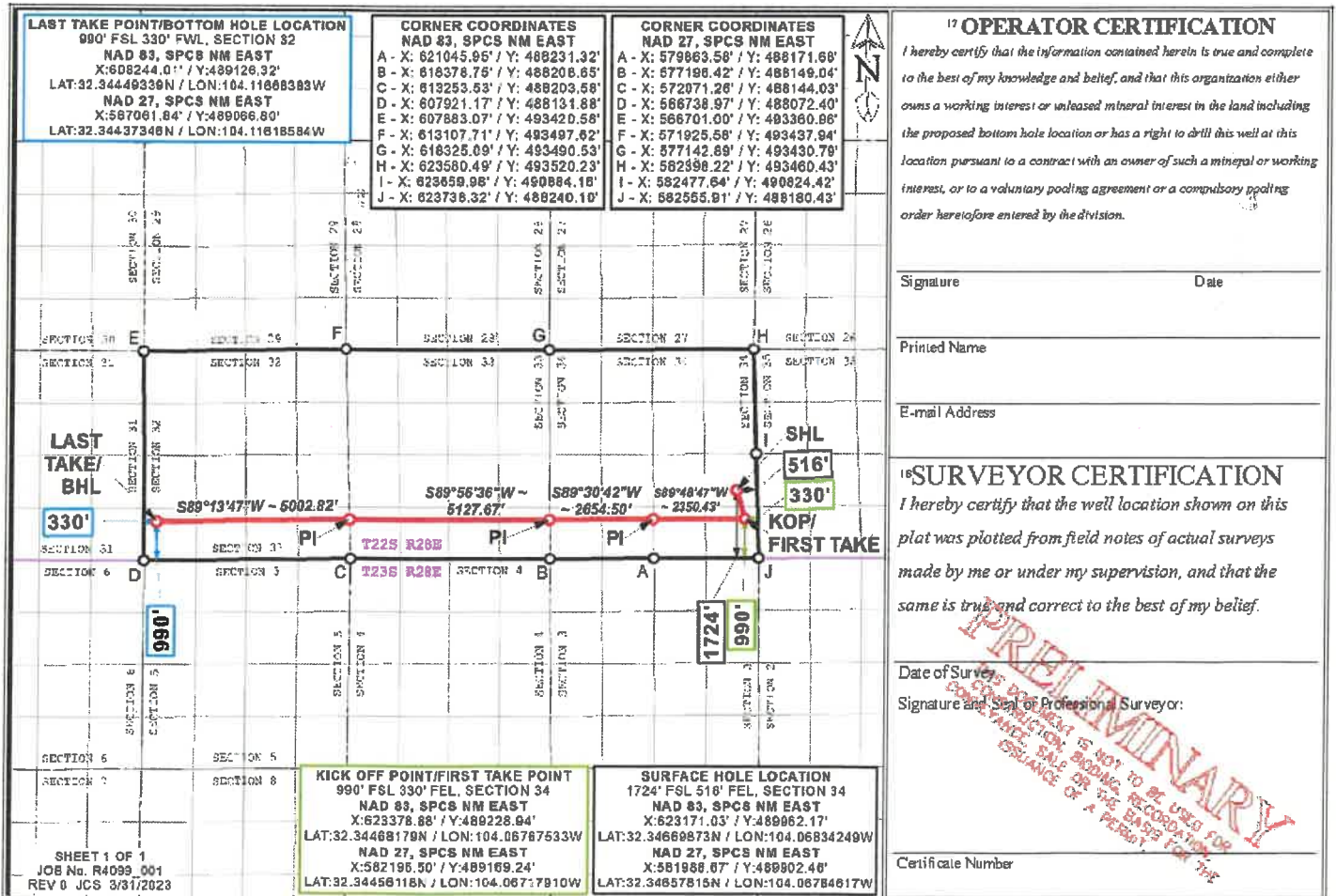
Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number		<sup>2</sup> Pool Code 98220		<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)					
<sup>4</sup> Property Code		<sup>5</sup> Property Name CHAOS WC FEDERAL COM						<sup>6</sup> Well Number 805H	
<sup>7</sup> OGRID No. 372098		<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC						<sup>9</sup> Elevation 3055'	
<sup>10</sup> Surface Location									
UL or lot no. I	Section 34	Township 22S	Range 28E	Lat 1 <sup>st</sup> dn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
					1724	SOUTH	516	EAST	
<sup>11</sup> Bottom Hole Location If Different From Surface									
UL or lot no. M	Section 32	Township 22S	Range 28E	Lat 1 <sup>st</sup> dn	Feet from the	North/South line	Feet from the	East/West line	County EDDY
					990	SOUTH	330	WEST	
<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.70001 2"

Horizontal Spacing Unit

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

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

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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number	<sup>2</sup> Pool Code 98220	<sup>3</sup> Pool Name PURPLE SAGE; WOLFCAMP (GAS)
<sup>4</sup> Property Code	<sup>5</sup> Property Name CHAOS WC FEDERAL COM	
<sup>7</sup> OGRID No. 372098	<sup>8</sup> Operator Name MARATHON OIL PERMIAN LLC	
		<sup>6</sup> Well Number 806H
		<sup>9</sup> Elevation 3054'

<sup>10</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	34	22S	28E		1681	SOUTH	475	EAST	EDDY

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

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	22S	28E		360	SOUTH	330	WEST	EDDY

<sup>12</sup> Dedicated Acres 1920.0	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

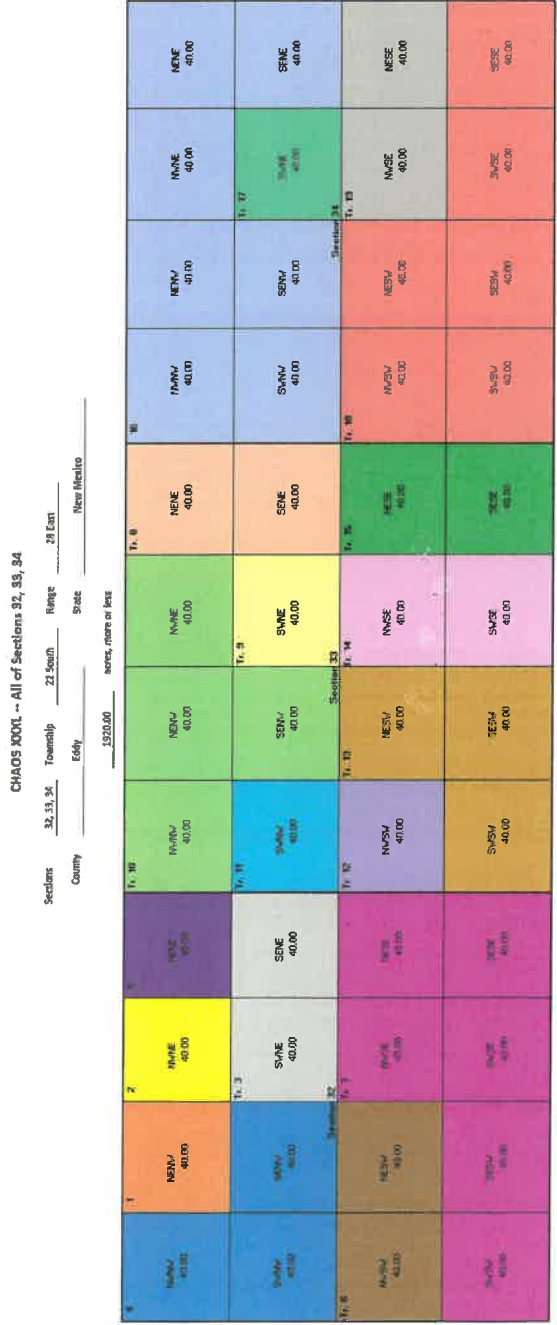
<p><b>CORNER COORDINATES NAD 83, SPCS NM EAST</b> A - X: 621045.95' / Y: 488231.32' B - X: 616376.76' / Y: 488206.65' C - X: 613253.53' / Y: 488203.68' D - X: 607921.17' / Y: 488131.88' E - X: 607883.07' / Y: 493420.58' F - X: 613107.71' / Y: 493497.82' G - X: 618325.09' / Y: 493490.55' H - X: 623560.49' / Y: 493520.23' I - X: 623659.98' / Y: 490684.16' J - X: 623736.32' / Y: 488240.10'</p>	<p><b>CORNER COORDINATES NAD 27, SPCS NM EAST</b> A - X: 679863.56' / Y: 488171.68' B - X: 677196.42' / Y: 488149.04' C - X: 672071.26' / Y: 488144.03' D - X: 666736.97' / Y: 488072.40' E - X: 666701.00' / Y: 483360.96' F - X: 671925.68' / Y: 493437.94' G - X: 677142.89' / Y: 493430.79' H - X: 682398.22' / Y: 493460.43' I - X: 682477.84' / Y: 490624.42' J - X: 682655.91' / Y: 488160.43'</p>	<p><b>SURFACE HOLE LOCATION 1681' FSL 475' FEL, SECTION 34 NAD 83, SPCS NM EAST X: 623213.09' / Y: 489919.93' LAT: 32.34658083N / LON: 104.08820663W NAD 27, SPCS NM EAST X: 682030.73' / Y: 489859.87' LAT: 32.34646024N / LON: 104.06771032W</b></p>	<p><b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or 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.</i></p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p>
			<p><b><sup>18</sup> SURVEYOR CERTIFICATION</b> <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p><b>FEBRUARY 17, 2023</b></p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i></p> <p><b>LLOYD P. SHORT 21653</b></p> <p>Certificate Number _____</p>

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence Angle: 00°07'02.700012"

Horizontal Spacing Unit

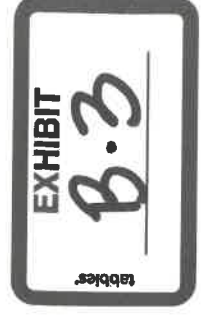


### Exhibit B.3 - Lease Tract Map: Sections 32, 33, and 34, T22S-R28E, Eddy County, NM Purple Sage; Wolfcamp (Gas) pool



Tract 1:	STATE	40.00
Tract 2:	Fee	40.00
Tract 3:	Fee	80.00
Tract 4:	Fee	120.00
Tract 5:	Fee	40.00
Tract 6:	Fee	80.00
Tract 7:	Fee	240.00
Tract 8:	FED	80.00
Tract 9:	FED	40.00
Tract 10:	Fee	160.00
Tract 11:	Fee	40.00
Tract 12:	FED	40.00
Tract 13:	FED	120.00
Tract 14:	Fee	80.00
Tract 15:	FED	80.00
Tract 16:	Fee	280.00
Tract 17:	FED	40.00
Tract 18:	FED	240.00
Tract 19:	FED	80.00
Total:		1920.00

Total Federal Acres:	720.00
Total State Acres:	40.00
Total Fee Acres:	1160.00
Total Unit Acres:	1920.00



**Summary of Working Interests: Chaos WC Federal Com 701H, 702H, 703H, 801H, 802H, 803H, 804H, 805H, & 806H Sections 32, 33, and 34, T22S-R28E, Eddy County, NM (1920 Acre Spacing Unit)**

**Committed Working Interest: 68.213394%**

Interest Owner	Unit WI
Marathon Oil Permian, LLC	67.914436%
*Accelerate Resources Operating	0.225000%
*Accelerate Resources Corporation	0.073958%

\*Parties have executed a JOA with Marathon for the Chaos development

**Uncommitted Working Interest: 31.786606%**

Interest Owner	Unit WI
Alan D. Tuck, Jr. and Evelyn Tuck	0.005826%
BPX Properties (NA), LP	0.313194%
Chester J. Stuebben	0.075541%
Cimarron Energy Corporation	0.208333%
Eastland Resources, Inc.	0.313194%
EOG Resources, Inc.	3.867188%
Hooker Energy, LLC	0.247917%
Irene Hyrb McIsaac	0.151082%
Larry Turner	0.151082%
Magnum Hunter Production, Inc.	2.083333%
Melissa Kay O'Kelley	0.035417%
Mizel Resources, a Trust	0.091092%
MRC Permian Company	6.250000%
Occidental Permian Limited Partnership	15.833333%
Ozark Exploration, Inc.	0.263585%
Ridge Runner Resources Agent, Inc.	0.625000%
Roemer Oil Company	0.145816%
Sisbro Oil and Gas LLC	0.656035%
Spinnaker Oil & Gas, LP	0.042708%
Stephen Paul Schalk, Trustee of the Schalk Family Trust under the will of John E. Schalk	0.173611%
The Estate of Martha R. Schalk, deceased	0.173611%
The Estate of Mr. Sande Wische, deceased	0.011652%
Winged Foot Oil Co., Inc.	0.068056%



**Marathon Oil**

## WIOS to Be Pooled

<u>Interest Owner</u>	<u>Unit WI</u>
Alan D. Tuck, Jr. and Evelyn Tuck	0.005826%
BPX Properties (NA), LP	0.313194%
Chester J. Stuebben	0.075541%
Cimarron Energy Corporation	0.208333%
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EOG Resources, Inc.	3.867188%
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The Estate of Martha R. Schalk, deceased	0.173611%
The Estate of Mr. Sande Wische, deceased	0.011652%
Winged Foot Oil Co., Inc.	0.068056%

## ORRI TO BE POOLED

A. Wayne Stevenson
Alan D. Tuck, Jr. and Evelyn Tuck
Andrew Woochul Shin
Antero Royalties LLC
Ashley Susan Aarons
Bantam Royalties, LLC
Barbara Watkins Naudain Revocable Living Trust dated July 3, 1991
Blue Mesa Limited Partnership
Bob W. Dutton
Boscamp FLP LLP
Bruce Elbert Despain
Buddy White Family Limited Partnership
Castle Farms, LP
Centurion Energy Corporation
CEP Minerals, LLC
Chaparral Minerals, LLC
Charles A. Abrams and Marilyn K. Abrams, Trustees of the Abrams Living Trust dated September 8, 1992
Charles R. Wiggins
Chester J. Stuebben
Claudia Short, individually
CLM & B Enterprises LLC
Conrad E. Coffield
David E. Prue Revocable Trust dated May 25, 1995
David Lee Power
David Paul Rhodes and Susan Kim Rhodes
Davis Land & Minerals, Inc.
Dennis and Patricia Anne Moreau Family Trust
Diego Cobo
Dollbeer Mesa Mobil Home Park, LP
Don B. Jones

Duane B. Herbert and Carol B. Herbert
Earl R. Bruno, Jr.
Eastland Resources, Inc.
Enrico R. Ambrosi
Erika Sarandis
Erwin Kellen LLC
Estrellita Hermogeno and Romeo Hermogeno, Trustees of the Hermogeno Family Trust
Floyd Energy, Ltd.
Frank Donald LLC
Franz Weis
Frazier Family Partnership, LP
Fred Ashbaugh and Susan Ashbaugh Living Trust dated August 22, 1996
Fred Henning and Ann Henning
Gerald F. Johnson, Trustee and subsequent Trustees of the Gerald F. Johnson Trust dated September 10, 1991
Good News Minerals, LLC
Goodrich Petroleum Company of
Hatch Royalty, LLC
HDC Partners
HOG Partnership LP
Irene Hyrb McIsaac
Irene M. Cimoli, Trustee of the Irene M. Cimoli Revocable Trust dated May 11, 1998
Jack Fletcher
James E. Burr
Jane B. Ramsland
Jane B. Ramsland, Trustee of the Russell J. Ramsland Family Trust
Janesky Trust
Jeannie Rae Kessler, as her separate property
Jeffrey Moore and LaVerne Moore

## ORRI TO BE POOLED

JLC Partners LP
Jo Ann Rustamier Stinson
Joel L. Miller Energy, L.P.
John A. Udall and Cathy D. Udall Revocable Trust dated December 21, 1989
John L. Budd and Christine Mary Budd
John W. Morris
Judy Lee Rustamier Makowsky
Karen E. Vanselow Family Trust
Kastman Oil Company LLC
Kathleen J. Watkins and Albert L. Watkins
Kathy J. Curtis Trust
Katrina Property, LP
Kent Allen Herman and Kelly Herman
Kimbell Royalty Holdings, LLC
L.E. Oppermann
Lamar E. Loyd
Larry A. Clark
Larry Turner
Laura Leila Fanning and Jeanne Fanning Andrews
Lee R. Gjovik and Lyleth E. Gjovik, Trustees of the Lee R. and Lyleth E. Gjovik Joint Revocable Trust dated October 21, 2003
Lobo Oil
Magnum Hunter Production, Inc.
MARATHON OIL PERMIAN, LLC
Marvin L. Smith
Michael B. Meyers
Michael John Despain
Mizel Resources, a Trust
Mountain Lion Oil and Gas, LLC
MSH Family Real Estate Partnership II, LLC

N Noble FLP LLP
Noble Royalties, Inc.
Opal Wright, Trustee of the Roxy Ann Burkhead Separate Property Trust under agreement dated December 16, 2002
Ortman Family Trust dated September 13, 1994
Ozark Exploration, Inc.
Pamela Power McBride
Parr Family Limited Partnership
Pegasus Resources, LLC
Pierce Family Trust
Quanah Exploration, LLC
Randall Steven Braun
Richard A. Calvert
Richard D. Miller and Jane F. Miller, husband and wife, as tenants by the entirety
Richard Donnelly and Ann Ball
Richard Edwin Rogstad and Betty Jean Rogstad AB Living Trust dated January 17, 2003
Richard R. Despain
Richard W. Munn
Richard W. Stump
Robert A. Stine, a single man
Robert Duncan and Heidi Duncan, as joint tenants with right of survivorship
Robert H. Marshall
Robert K Yamato and Judith S. Yamato, Trustees of the Yamato Trust dated September 30, 1988, restated June 29, 1990
Rusk Capital Management LLC
Russell J. Ramsland, Sr.
Rutter and Wilbanks Corporation
Seeks Petroleum, Inc.
Serenity Resources, LLC

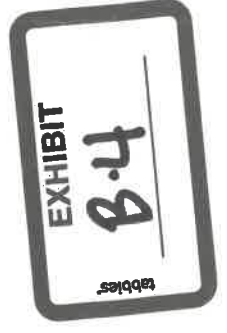
## ORRI TO BE POOLED

Shields Rentals LP
Sisbro Oil and Gas LLC
Slayton Investments, LLC
SMP Sidecar Titan Mineral Holdings, LP
SMP Titan Flex, LP
SMP Titan Mineral Holdings, LP
Spinnaker Investments, LP
Spinnaker Oil & Gas, LP
Stargazer Property, LLC
Stephen Paul Schalk, individually
Stephen Paul Schalk, Trustee of the
Stephen Paul Schalk, Trustee of the
StumpRock, LP
Susan H. Carrodus
Susannah D. Adelson, Trustee of the
TAS Royalty Company
The Beneficiarie(s) of the Rustamier
The Enfield-Coffield Family Revocable Trust under Trust Agreement dated February 2, 1998
The Estate of Mr. Sande Wische, deceased
The Francisco C. Runas, Jr. and Hermelina P. Runas Family Trust dated December 10, 1993
The George M Paulson, Jr. Revocable Trust

**Exhibit B.4 - Summary of Contacts:  
Chaos WC Federal Com 701H, 702H, 703H, 801H, 802H, 803H, 804H, 805H, & 806H  
Sections 32, 33, and 34, T22S-R28E , Eddy County, NM (1920 Acre Spacing Unit)**

**Summary of Contacts**

- Marathon conducted extensive title work to determine the working interest owners and other interest owners.
- Marathon searched public records, phone directory, and various types of internet searches.
- Marathon sent well proposal letters to the working interest owners on or around December 15, 2022.
- Marathon proposed general terms of a Joint Operating Agreements (JOA) within the well proposal letters sent to working interest owners.
  - Marathon has discussed the general terms of the JOA with the intent of finalizing the JOA with the working interest owners prior to spud (subject to final approvals)
- Marathon had multiple communications with the uncommitted working interest owners, which I have outlined in the chart on the following slide.
- Marathon filed applications to force pool parties who had not entered into an agreement.
- Marathon's counsel sent notices of the force pooling applications to the addresses of record for the uncommitted interest owners and also for overriding royalty interest owners.
- Marathon also published notice in a newspaper of general circulation in the county where the wells will be located.



**Exhibit B.4 continued - Summary of Contacts:**  
**Chaos WC Federal Com 701H, 702H, 703H, 801H, 802H, 803H, 804H, 805H, & 806H**  
**Sections 32, 33, and 34, T22S-R28E , Eddy County, NM (1920 Acre Spacing Unit)**

Summary of Contacts with Interest Owners					
Party	% Working Interest	Date Proposal Sent	Proposal Letter Received	Follow Up	Date
Eastland Resources, Inc.	0.313104%	12/15/2022	12/20/2022	Conference call with Joel Parsons, attorney for Eastland, to walk through Eastland's interest, development plans, and hearing timing.	2/23/2023
Occidental Permian Limited Partnership	15.653333%	12/15/2022	12/20/2022	Discuss Chaos development plans, interest verification, and JOA provisions. In commercial discussions re options.	2/14/2023
BPX Properties (NA), LP	0.313104%	12/15/2022	12/21/2023	Requested verification of their working interest in the Chaos unit.	1/26/2023
Coterra Energy, Inc.	2.063333%	1/9/2023	1/10/2023	Requested verification of their working interest in the Chaos unit.	1/26/2023
Larry Turner (attorney)	0.151082%	12/15/2022	12/20/2022	Verification of ownership and gauged MOP's interest in purchasing his wellbore interest.	1/18/2023
Accelerate Resources Corporation	0.073565%	1/9/2023	1/10/2023	Notified Marathon of their acquisition of Tumbler's interest and discussed Chaos development plans.	1/13/2023
Accelerate Resources Operating, LLC	0.225000%	1/9/2023	1/10/2023	Notified Marathon of their acquisition of Tumbler's interest and discussed Chaos development plans.	1/13/2023
Hyrd Irene McIsaac	0.151082%	12/15/2022	12/21/2022	Indicated intention to participate via certified mail.	1/12/2023
Ridge Runner Resources Agent, Inc.	0.625000%	12/15/2022	12/20/2022	WFO called to discuss trading out of this interest. Continuing commercial discussions.	3/23/2023
Hooker Energy, LLC	0.247917%	12/15/2022	12/20/2022	Requested verification of their working interest in the Chaos unit.	12/29/2022
Ozark Exploration, Inc.	0.265665%	12/15/2022	12/19/2022	Requested verification of their working interest in the Chaos unit.	12/22/2022
MRC Permian Company	2.063333%	12/15/2022	12/19/2022	Discuss Chaos development plans and interest verification.	12/21/2022
CL&F Resources, LP	2.343750%	12/15/2022	12/19/2022	Discuss Chaos development plans, interest verification, and JOA provisions.	12/19/2022
Alan D. Tuck, Jr. and Evelyn Tuck	0.005826%	12/15/2022	Undelivered via mail	Currently unable to locate individual; Continuing research. Attempted mailing to a minimum of 3 different addresses.	3/15/2023
Chester J. Stuebben	0.075541%	12/15/2022	Undelivered via mail	Currently unable to locate individual; Continuing research. Attempted mailing to a minimum of 3 different addresses.	3/15/2023
Melissa O'Kelley	0.035417%	12/15/2022	Undelivered via mail	Currently unable to locate individual; Continuing research. Attempted mailing to a minimum of 3 different addresses.	3/15/2023
Roemer Oil Company	0.145816%	12/15/2022	Undelivered via mail	Currently unable to locate individual; Continuing research. Attempted mailing to a minimum of 3 different addresses.	3/15/2023
Winged Foot Oil Co., Inc.	0.068056%	12/15/2022	Undelivered via mail	Currently unable to locate individual; Continuing research. Attempted mailing to a minimum of 3 different addresses.	3/15/2023
Claudia Short	0.000000%	12/15/2022	12/19/2022	Discuss Chaos development plans and interest verification. Confirmation that interest is only ORRI.	3/7/2023







Farley Duvall  
Land Professional - Permian

Marathon Oil Company  
990 Town & Country Blvd.  
Houston, Texas 77024  
713.296.2399 (o)  
fduvall@marathonoil.com

January 9, 2023

Magnum Hunter Production, Inc.  
600 E. Colinas Blvd., Suite 1100  
Irving, TX 75039

Re: Chaos WC Fed Com 701H, 702H, 703H, 704H, 801H, 802H, 803H, 804H, 805H, & 806H  
(the "Wells")  
Participation Proposal  
Sections 32, 33, & 34, T22S-R28E  
Eddy County, New Mexico

Dear Sir/Madam:

Marathon Oil Permian LLC ("Marathon") proposes the drilling, completion, and equipping of the Wells, at a legal location in Sections 32, 33, & 34, Township 22 South, Range 28 East, Eddy County, New Mexico (the "Subject Lands), as follows:

- 1) **Chaos WC Fed Com 701H**  
First take point: 330' FEL & 900' FNL of Section 34, 22S-28E  
Last take point: 330' FWL & 990' FNL of Section 32, 22S-28E  
The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 9,615' and an approximate measured depth of 24,865'.
- 2) **Chaos WC Fed Com 702H**  
First take point: 330' FEL & 2310' FNL of Section 34, 22S-28E  
Last take point: 330' FWL & 2310' FNL of Section 32, 22S-28E  
The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 9,615' and an approximate measured depth of 24,865'.
- 3) **Chaos WC Fed Com 703H**  
First take point: 330' FEL & 1650' FSL of Section 34, 22S-28E  
Last take point: 330' FWL & 1650' FSL of Section 32, 22S-28E  
The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 9,615' and an approximate measured depth of 24,865'.
- 4) **Chaos WC Fed Com 704H**  
First take point: 330' FEL & 330' FSL of Section 34, 22S-28E  
Last take point: 330' FWL & 330' FSL of Section 32, 22S-28E



The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 9,615' and an approximate measured depth of 24,865'.

**5) Chaos WC Fed Com 801H**

First take point: 330' FEL & 330' FNL of Section 34, 22S-28E

Last take point: 330' FWL & 330' FSL of Section 32, 22S-28E

The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 10,290' and an approximate measured depth of 25,540'.

**6) Chaos WC Fed Com 802H**

First take point: 330' FEL & 1,320' FNL of Section 34, 22S-28E

Last take point: 330' FWL & 1,320' FSL of Section 32, 22S-28E

The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 9,970' and an approximate measured depth of 25,220'.

**7) Chaos WC Fed Com 803H**

First take point: 330' FEL & 1650' FNL of Section 34, 22S-28E

Last take point: 330' FWL & 1650' FSL of Section 32, 22S-28E

The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 10,290' and an approximate measured depth of 25,540'.

**8) Chaos WC Fed Com 804H**

First take point: 330' FEL & 2330' FNL of Section 34, 22S-28E

Last take point: 330' FWL & 2330' FSL of Section 32, 22S-28E

The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 10,290' and an approximate measured depth of 25,540'.

**9) Chaos WC Fed Com 805H**

First take point: 330' FEL & 990' FNL of Section 34, 22S-28E

Last take point: 330' FWL & 990' FSL of Section 32, 22S-28E

The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 9,970' and an approximate measured depth of 25,220'.

**10) Chaos WC Fed Com 806H**

First take point: 330' FEL & 330' FNL of Section 34, 22S-28E

Last take point: 330' FWL & 360' FSL of Section 32, 22S-28E

The Well will be drilled horizontally within the Purple Sage Wolfcamp formation to an approximate true vertical depth of 10,290' and an approximate measured depth of 25,540'.

**Authority for Expenditure (AFE)s**

Enclosed with this letter is an Authority for Expenditure ("AFE") for each of the proposed Wells. Please be aware that the enclosed AFEs are only an estimate of costs to be incurred, and by electing to participate, you shall be responsible for your proportionate share of all actual costs incurred.

### Voluntary Agreement of Compulsory Pooling

Marathon will provide, upon request, a proposed Joint Operating Agreement (“JOA”) for development of the Subject Lands that will include the following basic terms:

- Marathon Oil Permian LLC to be named as Operator
- Contract Area begin the Subject Lands
- As a charge for the risk involved in drilling the well, 300% of the above costs
- \$10,000 per month drilling overhead rates and \$1,000 per month producing overhead rates, adjusted annually pursuant to Section III.1.A.3 of COPAS form titled “Accounting Procedure-Joint Operations.”

If you would like to discuss a farmout, an assignment of interest, an acreage trade or other form of agreement for your interests in the Subject Lands, please contact the undersigned. If Marathon is unable to reach a voluntary agreement for the development of the Subject Lands with all the interest owners in the proposed spacing unit, Marathon will file an application with the New Mexico Oil Conservation Division for an order pooling the Subject Lands.

### Election Instructions

Please use the attached ballot to indicate your desire to participate in each of the proposed wells and return a signed AFE for each well in which you elect to participate. If we do not receive a response form you within thirty (30) days, we will proceed with the necessary proceedings to pool your interests in the proposed spacing unit for the initial wells.

Should you elect to participate, your interest will automatically be covered by the Operator’s insurance unless and until you provide written notice to Operator to the contrary, together with a valid, current insurance certificate from your insurance carrier in compliance with Operator’s minimum insurance requirements.

Should you have any questions regarding the above, please do not hesitate to contact me at the information provided in the top of this letter.

Best Regards,  
**Marathon Oil Permian LLC**

Farley Duvall  
Land Professional

**PARTICIPATION BALLOT**

**Magnum Hunter Production, Inc.** hereby elects to:

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 701H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 701H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 702H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 702H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 703H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 703H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 704H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 704H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 801H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 801H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 802H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 802H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 803H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 803H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 804H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 804H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 805H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 805H** Well by paying its proportionate share of all actual costs.

\_\_\_\_\_ Not to participate in the **Chaos WC Fed Com 806H** Well.

\_\_\_\_\_ Participate in the **Chaos WC Fed Com 806H** Well by paying its proportionate share of all actual costs.

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

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

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

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

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

DATE 11/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 701H	DEVELOPMENT	RECOMPLETION
Location	330' FEL & 500' FNL of Section 34, 225-28E	X	EXPLOITATION
Prospect	Malaga		WORKOVER
Est Total Depth	24,865	Est Drilling Days	34,192
		Est Completion Days	11

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>\$275,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	852,022
7012050	Production Casing	615,216
7012050	Drill Liner Hanger, Tiesback Eq & Ctg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	8,225
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7290002	Drilling Rig Mob/DEMOb	106,923
7290002	Drilling Rig - day work/footage	888,260
7013040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,325
7012810	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	81,248
7019350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging - geosteering	26,772
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	57,574
7019110	Casing inspection/cleaning	26,674
7019110	Drill pipe/collar inspection services	16,450
7016180	Freight - truck	41,124
7001460	Water hauling and disposal (includes soil farming)	98,698
7001160	Contract Services - Disposal/Non-Hazardous Waste	131,597
7001440	Vacuum Trucks	16,450
7000030	Contract Labor - general	49,349
7000010	Contract Labor - Operations	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	22,207
7260001	Rig Equipment and Misc.	177,656
7001110	Telecommunications Services	8,225
7001120	Consulting Services	186,539
7001400	Safety and Environmental	62,180
7330002	Rental Buildings (trailers)	22,207
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	371,387
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>
<b>TOTAL DRILLING COST</b>		<b>\$5,027,220</b>

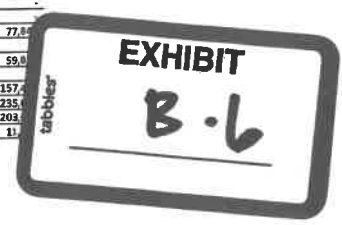
MARATHON OIL PERMIAN LLC  
 AUTHORITY FOR EXPENDITURE  
 DETAIL OF ESTIMATED WELL COSTS

DATE 11/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 701H

GL CODE	DESCRIPTION	ESTIMATED COST
7012590	Tubing	-
7012040	Tubing Accessories ( nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,487
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)	511,234
7390002	Fracturing Services	6,893,556
7016330	Perforating	313,137
7019360	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,270
7016180	Freight - Truck (haul pipe, drlg & compl)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment (incl drlg: fh/plant, hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie, Bit, BHA)	77,500
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,000
7001110	Safety and Environmental	157,000
7001490	Consulting Services	235,000
7001120	Zipper Manifold	203,000
7019300	Frack Stack Rentals	11,000
7016180	Freight (Transportation Services)	11,000



7260001	Equipment Rental (w/o operator, frac tanks, hydraulic)	304,587
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (pump-down pumps)	59,883
7011010	8% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>\$9,493,920</b>

**TOTAL COMPLETION COST \$9,506,920**

SURFACE EQUIPMENT - TANGIBLE		
7012350	Misc. Piping, Fittings & Valves	99,681
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7016180	Freight - truck	9,942
7001190	Contract Engineering	6,159
7012290	Metering and Instrumentation	168,687
7012290	I&E Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Separator Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,154
7012100	Heater Treater	83,211
7012640	Flare & Accessories	1,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	21,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>\$1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST \$ 1,050,000**

ARTIFICIAL LIFT		
7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,899
7012350	Materials & Supplies	3,028
7012550	Production Tree	5,071
7012580	Tubing	106,482
7016190	Freight	5,071
7018150	Rentals	6,085
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,339
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST \$ 431,000**

SUMMARY OF ESTIMATED DRILLING WELL COSTS	TOTAL COST
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETION COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.

I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURTNEY NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 702H	DEVELOPMENT	RECOMPLETION
Location	330' FEL & 2310' FNL of Section 34, 225-28E	X EXPLOITATION	WORKOVER
Prospect	Malaga		

Est Total Depth	24,865	Est Drilling Days	34,192	Est Completion Days	11
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GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>\$275,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	352,022
7012050	Production Casing	615,216
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	8,225
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7290002	Drilling Rig Mob/Demob	106,923
7290002	Drilling Rig - day work/footage	881,280
7019040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	26,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7015140	Mud Fluids & Services	114,325
7012310	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	81,248
7016350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging-geosteering	26,772
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	57,574
7019110	Casing Inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7016180	Freight - truck	41,124
7001460	Water hauling and disposal (Includes soil farming)	96,698
7001160	Contract Services - Disposal/Non-Hazardous Waste	134,597
7001440	Vacuum Trucks	15,450
7000030	Contract Labor - general	49,349
7000010	Contract Labor - Operations	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	21,207
7260001	Rig Equipment and Misc.	177,656
7001110	Telecommunications Services	8,225
7001120	Consulting Services	186,539
7001490	Safety and Environmental	62,180
7330002	Rental Buildings (trailers)	22,207
7019310	Coring (sidewalls & analysis)	-
7011010	B% Contingency & Taxes	372,387
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>

**TOTAL DRILLING COST \$5,027,220**

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 702H

GL CODE	DESCRIPTION	ESTIMATED COST
7012580	Tubing	-
7012040	Tubing Accessories (multiple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,417
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)	511,234
7290002	Fracturing Services	6,019,550
7019330	Perforating	312,137
7019360	Wireline Services	-
7001460	Water hauling & Disposal (frac fluids)	383,270
7016180	Freight - Truck (haul pipe, drlg & compl)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment (Incl drlg; lightplant, hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie, Bit, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,883
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zipper Manifold	235,662
7019300	Frack Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498



7250001	Equipment Rental (w/o operator, frac tanks, lightplants)	304,597
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (sump-down pumps)	59,883
7011010	8% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>\$9,481,920</b>

**TOTAL COMPLETION COST \$9,506,920**

SURFACE EQUIPMENT - TANGIBLE		
7012350	Misc. Piping, Fittings & Valves	99,681
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7015180	Freight - truck	9,942
7001130	Contract Engineering	6,159
7012290	Metering and Instrumentation	168,687
7012290	ISE Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	23,154
7012100	Heater Treater	83,211
7012640	Flare & Accessories	13,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	21,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>\$1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST \$ 1,050,000**

ARTIFICIAL LIFT		
7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,036
7012550	Production Tree	5,071
7012500	Tubing	106,462
7016190	Freight	5,071
7018150	Rentals	6,085
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,339
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST \$ 431,000**

SUMMARY OF ESTIMATED DRILLING WELL COSTS	TOTAL COST
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETIONS COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURTNEY NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp		WILDCAT
Lease/Facility	Chaos WC Fed Com 703H		DEVELOPMENT
Location	330' FNL & 1650' FNL of Section 34, 225-28E	X	EXPLOITATION
Prospect	Malaga		WORKOVER
Est Total Depth	24,865	Est Drilling Days	34.192
		Est Completion Days	11

LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
	<b>TOTAL LOCATION COST - INTANGIBLE</b>	<b>\$275,000</b>

DRILLING COST - TANGIBLE

7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	352,022
7012050	Production Casing	635,216
7012050	Drill Liner Hanger, Tieback Eq & Ctg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	8,225
		-
	<b>TOTAL DRILLING - TANGIBLE</b>	<b>\$1,317,635</b>

DRILLING COST - INTANGIBLE

7290002	Drilling Rig Mob/Demob	106,923
7290002	Drilling Rig - day work/footage	888,280
7019040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,325
7012310	Solids Control equipment	79,945
7012020	Bits	221,070
7019010	Casing Crew and Services	83,248
7016350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging/Geosteering	26,771
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	57,574
7019110	Casing Inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7016380	Freight - truck	41,124
7001460	Water hauling and disposal (includes soil farming)	98,698
7001160	Contract Services - Disposal/Non-Hazardous Waste	131,597
7001440	Vacuum Trucks	16,450
7000030	Contract Labor - general	49,349
7000010	Contract Labor - Operations	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	21,207
7260001	Rig Equipment and Misc.	177,656
7001110	Telecommunications Services	8,225
7001120	Consulting Services	186,539
7001400	Safety and Environmental	62,180
7330002	Rental Buildings (trailers)	22,207
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	372,387
		-
	<b>TOTAL DRILLING - INTANGIBLE</b>	<b>\$3,709,605</b>

TOTAL DRILLING COST

\$5,027,220

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 703H

COMPLETION - TANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7012580	Tubing	-
7012040	Tubing Accessories (hanger, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
	<b>TOTAL COMPLETION - TANGIBLE</b>	<b>\$15,000</b>

COMPLETION - INTANGIBLE

7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,487
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)	511,234
7390002	Fracturing Services	6,893,556
7019350	Perforating	913,137
7019360	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,270
7016180	Freight - Truck (haul pipe, drig & compl)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment (incl drig, tight/lant, hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie. Bit, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,883
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zipper Manifold	235,663
7019300	Frack Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498

7260001	Equipment Rental ( w/o operator, frac tanks, light plants)	304,597
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (pump-down pumps)	59,883
7011010	8% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>\$9,491,920</b>

**TOTAL COMPLETION COST \$19,506,920**

**SURFACE EQUIPMENT - TANGIBLE**

7012350	Misc. Piping, Fittings & Valves	99,681
7005640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	5,510
7016180	Freight - truck	9,942
7001190	Contract Engineering	6,159
7012290	Metering and Instrumentation	168,687
7012290	I&E Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	25,154
7012100	Heater Treater	89,211
7012640	Flare & Accessories	12,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	22,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>\$1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST \$1,050,000**

**ARTIFICIAL LIFT**

7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,028
7012550	Production Tree	5,071
7012350	Tubing	105,482
7016190	Freight	5,071
7018150	Rentals	6,085
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,139
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST \$431,000**

**SUMMARY OF ESTIMATED DRILLING WELL COSTS**

	TOTAL COST
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETION COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp		
Lease/Facility	Chaos WC Fad Com 704H		
Location	330' FEL & 330' FNL of Section 34, 22S-28E		
Prospect	Malaga		
Est Total Depth	24,865	Est Drilling Days	34.192
		Est Completion Days	11

LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>\$275,000</b>

DRILLING COST - TANGIBLE

7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	592,022
7012050	Production Casing	615,216
7012050	Drilling Liner Hanger, Tieback Eq & Csg Accessories	41,124
7012050	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous NRO Materials	8,225
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

DRILLING COST - INTANGIBLE

7290002	Drilling Rig Mob/Demob	105,923
7290002	Drilling Rig - day work/footage	888,280
7013040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,325
7012310	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	82,248
7019350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging+geosteering	26,772
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	57,574
7019110	Casing Inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7019110	Drill pipe/collar inspection services	41,124
7019180	Freight - truck	98,698
7001460	Water hauling and disposal (Includes soil farming)	131,597
7001160	Contract Services - Disposal/Non-Hazardous Waste	16,450
7001440	Vacuum Trucks	49,349
7000030	Contract Labor - general	4,935
7000010	Contract Labor - Operations	16,450
7001200	Contract Services - Facilities	37,629
7019300	Well Services - Well Control Services	16,450
7019350	Well Services - Well/Wellhead Services	22,207
7290003	Rental Tools and Equipment (surface rentals)	177,656
7280001	Rig Equipment and Misc.	8,225
7001110	Telecommunications Services	186,539
7001120	Consulting Services	62,180
7001400	Safety and Environmental	22,207
7290002	Rental Buildings (trailers)	-
7019310	Coring (sidewalls & analysis)	-
701010	8% Contingency & Taxes	372,387
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>

TOTAL DRILLING COST \$5,027,220

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fad Com 704H

COMPLETION - TANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7012580	Tubing	-
7013040	Tubing Accessories ( nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

COMPLETION - INTANGIBLE

7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,487
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)	513,234
7290002	Fracturing Services	6,893,556
7019330	Perforating	313,137
7018360	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,270
7016180	Freight - Truck (haul pipe; drlg & compl)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment (incl drlg; lightant hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie. Bit, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,863
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zipper Manifold	235,663
7019300	Frack Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498

7250001	Equipment Rental (w/o operator, frac tanks, h <sub>2</sub> h <sub>2</sub> plants)	304,597
7330002	Rental Buildings/Trailers	-
7000030	Contract Labor - Pumping (pump-down pumps)	59,883
7011010	8% Contingency & Taxes	-

**TOTAL COMPLETION - INTANGIBLE** \$ 9,451,920

**TOTAL COMPLETION COST** \$ 9,506,920

**SURFACE EQUIPMENT - TANGIBLE**

7012350	Misc. Piping, Fittings & Valves	99,681
7005640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012420	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7016180	Freight - truck	9,942
7001190	Contract Engineering	6,139
7012350	Metering and Instrumentation	169,687
7012250	I&E Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,154
7012100	Heater Treater	83,211
7012640	Flare & Accessories	12,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	22,148

**TOTAL SURFACE EQUIPMENT - TANGIBLE** \$ 1,050,000

**TOTAL SURFACE EQUIPMENT COST** \$ 1,050,000

**ARTIFICIAL LIFT**

7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,028
7012550	Production Tree	5,071
7012980	Tubing	106,482
7016190	Freight	5,071
7018150	Rentals	6,085
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,339

**TOTAL ARTIFICIAL LIFT** 431,000

**TOTAL ARTIFICIAL LIFT COST** \$ 431,000

**SUMMARY OF ESTIMATED DRILLING WELL COSTS**

	TOTAL COST
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETIONS COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$ 16,290,140</b>

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

DATE 11/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 801H	DEVELOPMENT	RECOMPLETION
Location	330° FEL & 330° FNL of Section 34, 225-28E	X EXPLOITATION	WORKOVER
Prospect	Malgia		
Est Total Depth	25,540	Est Drilling Days	34,192
		Est Completion Days	11

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>\$275,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	352,022
7012050	Production Casing	615,216
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7013040	Casing & Tubing Access	106,923
7250003	Miscellaneous MRO Materials	8,125
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7290002	Drilling Rig Mob/Demob	106,923
7290002	Drilling Rig - day work/footage	888,280
7019040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,325
7012310	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	82,248
7019350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging-geosteering	26,772
7019250	Stabilizers, Mole Openers, Underreamers (DH rentals)	57,574
7019110	Casing Inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7016180	Freight - truck	41,124
7001460	Water hauling and disposal (includes soil farming)	98,698
7001160	Contract Services - Disposal/Non-Hazardous Waste	131,597
7001440	Vacuum Trucks	16,450
7000030	Contract Labor - general	49,349
7000010	Contract Labor - Operations	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	21,207
7260001	Rig Equipment and Misc.	177,656
7001130	Telecommunications Services	8,225
7001120	Consulting Services	186,539
7001400	Safety and Environmental	62,180
7330002	Rental Buildings (trailers)	22,207
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	372,387
		-
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>
<b>TOTAL DRILLING COST</b>		<b>\$5,027,220</b>

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

DATE 11/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 801H

GL CODE	DESCRIPTION	ESTIMATED COST
7012040	Tubing	-
7012040	Tubing Accessories (plugs, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dres location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,487
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)	-
7390002	Fracturing Services	511,234
7019330	Perforating	6,893,556
7019360	Wireline Services	313,137
7001460	Water Hauling & Disposal (frac fluids)	-
7016180	Freight - Truck (haul pipe, drig & comp)	383,270
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment (incl drig, light plant, hydro-walk)	-
7290003	CT Downhole Rental Equipment (ie, Bit, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,883
7001130	Safety and Environmental	-
7001440	Consulting Services	157,493
7001120	Zipper Manifold	235,663
7019300	Frack Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498

7260001	Equipment Rental (w/o operator, frac tanks, lifts/pumps)	304,597
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (pump-down pumps)	59,883
7011010	8% Contingency & Taxes	-

TOTAL COMPLETION - INTANGIBLE 19,491,920

TOTAL COMPLETION COST 19,506,920

**SURFACE EQUIPMENT - TANGIBLE**

7012350	Misc. Piping, Fittings & Valves	99,681
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7016180	Freight - truck	9,942
7001190	Contract Engineering	6,159
7012290	Metering and Instrumentation	168,587
7012260	I&E Materials	98,948
7012100	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012160	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,154
7012100	Heater Treater	83,213
7012640	Flare & Accessories	11,067
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	21,148

TOTAL SURFACE EQUIPMENT - TANGIBLE 11,050,000

TOTAL SURFACE EQUIPMENT COST \$ 1,050,000

**ARTIFICIAL LIFT**

7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,028
7012550	Production Tree	5,071
7012580	Tubing	106,482
7016190	Freight	5,071
7012350	Rentals	6,085
7018130	Kill Fluid	1,028
7018220	Well Services & Rig	24,339

TOTAL ARTIFICIAL LIFT 431,000

TOTAL ARTIFICIAL LIFT COST \$ 431,000

**SUMMARY OF ESTIMATED DRILLING WELL COSTS**

	<b>TOTAL COST</b>
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETION COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 802H	DEVELOPMENT	RECOMPLETION
Location	330' FEL & 1320' FNL of Section 34, 225-28E	X EXPLOITATION	WORKOVER
Prospect	Malaga		

Est Total Depth 25,220 Est Drilling Days 34.192 Est Completion Days 11

LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>\$275,000</b>

DRILLING COST - TANGIBLE

7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	352,022
7012050	Production Casing	615,216
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	4,125
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

DRILLING COST - INTANGIBLE

7290002	Drilling Rig Mob/Demob	106,923
7290002	Drilling Rig - day work/footage	889,280
7019040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7015140	Mud Fluids & Services	114,325
7012810	Solids Control equipment	79,945
7012030	Bits	222,070
7019010	Casing Crew and Services	82,248
7016350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7018150	Mud Logging+steering	26,772
7019250	Stabilizers, Hole Openers, Underreamers (OH rentals)	57,574
7019110	Casing Inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7016180	Freight - truck	41,124
7001460	Water hauling and disposal (includes soil farming)	98,698
7001160	Contract Services - Disposal/Non-Hazardous Waste	131,597
7001440	Vacuum Trucks	16,450
7000390	Contract Labor - general	49,349
7000010	Contract Labor - Operations	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	22,207
7260001	Rig Equipment and Misc.	177,656
7001110	Telecommunications Services	4,225
7001120	Consulting Services	186,539
7001400	Safety and Environmental	62,180
7290002	Rental Buildings (trailers)	22,207
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	372,387
		-
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>
<b>TOTAL DRILLING COST</b>		<b>\$5,027,220</b>

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 802H

COMPLETION - TANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7012580	Tubing	-
7012040	Tubing Accessories ( nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

COMPLETION - INTANGIBLE

7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,467
7019240	Snubbing Services	-
7019270	Pulling/Swab Units	-
7016350	Fuel (from dril)	-
7019010	Casing Crew and Services	-
7019020	Cement and Cementing Services	-
7019080	Well Testing Services (flow hand & equb)	511,734
7290002	Fracturing Services	6,893,556
7019330	Perforating	313,137
7019360	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,270
7016180	Freight - Truck (haul pipe, dril & com)	-
7290003	BOV Rental & Testing	-
7290003	Rental Tools and Equipment ( incl dril; lightplant,hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie. Bit, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,883
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zipper Manifold	245,663
7019300	Frac Stack Rentals	209,604
7016180	Freight (Transportation Services)	13,498



7260001	Equipment Rental   w/o operator, frac tanks, lights/lants	304,597
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (pump-down pumps)	59,863
7011010	5% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>\$9,491,920</b>

**TOTAL COMPLETION COST** **19,506,920**

SURFACE EQUIPMENT - TANGIBLE		
7012350	Misc. Piping, Fittings & Valves	99,681
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7016180	Freight - truck	9,942
7001190	Contract Engineering	6,139
7012390	Metering and instrumentation	168,697
7012290	I&E Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Separator or Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,154
7012100	Heater/Treater	83,211
7012640	Parts & Accessories	12,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	77,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>\$1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST** **\$ 1,050,000**

ARTIFICIAL LIFT		
7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	7,028
7012550	Production Tree	5,071
7012580	Tubing	108,482
7016190	Freight	5,071
7018150	Rentals	6,085
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,339
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST** **\$ 431,000**

SUMMARY OF ESTIMATED DRILLING WELL COSTS	TOTAL COST
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETION COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 804H	DEVELOPMENT	RECOMPLETION
Location	330' FEL & 1650' FNL of Section 34, 225-2BE	X EXPLOITATION	WORKOVER
Prospect	Malaga		

Est Total Depth	25,540	Est Drilling Days	34,192	Est Completion Days	11
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LOCATION COST - INTANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>275,000</b>

DRILLING COST - TANGIBLE

7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,938
7012050	Intermediate Casing 2	352,022
7012050	Production Casing	615,216
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	8,225
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>1,317,615</b>

DRILLING COST - INTANGIBLE

7290002	Drilling Rig Mob/Demob	106,933
7290002	Drilling Rig - day work/footage	889,180
7019040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	14,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,325
7012310	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	81,248
7016350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging-geosteering	26,772
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	57,574
7019110	Casing Inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7016180	Freight - truck	41,124
7001460	Water hauling and disposal (includes soil farming)	98,698
7001150	Contract Services - Disposal/Non-Hazardous Waste	131,597
7001440	Vacuum Trucks	16,450
7000030	Contract Labor - general	49,349
7000010	Contract Labor - Operations	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	22,207
7290001	Rig Equipment and Misc.	177,656
7001120	Telecommunications Services	8,225
7001120	Consulting Services	186,539
7001400	Safety and Environmental	62,180
7330002	Rental Buildings (trailers)	22,207
7019310	Coring (sidewalk & analysis)	-
7011010	8% Contingency & Taxes	372,387
		-
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>

**TOTAL DRILLING COST** **\$5,027,220**

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 804H

COMPLETION - TANGIBLE

GL CODE	DESCRIPTION	ESTIMATED COST
7012590	Tubing	-
7012040	Tubing Accessories (nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>15,000</b>

COMPLETION - INTANGIBLE

7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7018030	Coiled Tubing Services (3 runs)	263,487
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)	511,234
7390002	Fracturing Services	6,893,556
7019330	Perforating	313,137
7019350	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,270
7016180	Freight - Truck (haul pipe, drig & comp)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment (incl drig; light/lant; hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie. Bit, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,889
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zigzag Manifold	236,663
7019300	Frack Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498

7250001	Equipment Rental (w/o operator, frac tanks, light plants)	304,597
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (pump-down pumps)	59,883
7011010	8% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>9,491,920</b>

**TOTAL COMPLETION COST** **9,506,920**

SURFACE EQUIPMENT - TANGIBLE		
7012350	Misc. Piping, Fittings & Valves	99,681
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	108,158
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,158
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7016180	Freight - truck	9,942
7001190	Contract Engineering	6,139
7012390	Metering and Instrumentation	169,687
7012290	IE&E Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,134
7012100	Heater Treater	83,211
7012640	Flare & Accessories	12,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	22,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST** **\$ 1,050,000**

ARTIFICIAL LIFT		
7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,028
7012550	Production Tree	5,071
7012560	Tubing	106,462
7016190	Freight	5,071
7018150	Rentals	6,085
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,339
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST** **\$ 431,000**

SUMMARY OF ESTIMATED DRILLING WELL COSTS	TOTAL COST
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETIONS COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.

I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 804H	DEVELOPMENT	RECOMPLETION
Location	330' FEL & 2330' FNL of Section 34, 225-28E	X EXPLOITATION	WORKOVER
Prospect	Malaga		
Est Total Depth	25,540	Est Drilling Days	34,192
		Est Completion Days	11

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>275,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	592,022
7012050	Production Casing	615,218
7012050	Drill Liner Hanger, Tieback Eq & Ctg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	8,225
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7290002	Drilling Rig Mob/Demob	106,923
7290002	Drilling Rig - Drilling Work/footage	888,280
7019040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,325
7012310	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	82,248
7016350	Fuel (Rig)	49,349
7019140	Fuel (Mud)	41,124
7001460	Water (non potable)	8,225
7012350	Water (potable)	-
7019000	Well Logging Services	26,772
7019150	Mud Logging+geosteering	57,574
7019250	Stabilizers, Hole Openers, Underramers (DH rentals)	26,674
7019110	Casing Inspection/cleaning	16,450
7019110	Drill pipe/collar inspection services	41,124
7016180	Freight - truck	98,698
7001460	Water hauling and disposal (includes soil farming)	131,597
7001160	Contract Services - Disposal/Non-Hazardous Waste	16,450
7001440	Vacuum Trucks	49,349
7000030	Contract Labor - general	4,935
7000010	Contract Labor - Operations	16,450
7001200	Contract Services - Facilities	37,629
7019300	Well Services - Well Control Services	16,450
7019350	Well Services - Well/Wellhead Services	22,207
7290003	Rental Tools and Equipment (surface rentals)	177,656
7260001	Rig Equipment and Misc.	8,225
7001110	Telecommunications Services	186,539
7001120	Consulting Services	62,180
7001400	Safety and Environmental	22,207
7300002	Rental Buildings (trailers)	-
7019310	Coring (sidewalls & analysis)	372,387
701010	8% Contingency & Taxes	-
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>

**TOTAL DRILLING COST** **\$5,027,220**

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 804H

GL CODE	DESCRIPTION	ESTIMATED COST
7012580	Tubing	-
7012040	Tubing Accessories ( nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,487
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)	\$11,234
7390002	Fracturing Services	6,893,556
7019330	Perforating	343,137
7019360	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,270
7016180	Freight - Truck (haul pipe: drlg & comp)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment ( incl drlg; lightslant,hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie. BH, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,883
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zipper Manifold	235,663
7019300	Frack Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498

7260001	Equipment Rental (w/o operator, frac tanks, lights/plants)	304,597
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (pump-down pumps)	59,883
7011010	8% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>\$9,491,920</b>

**TOTAL COMPLETION COST** **19,506,920**

**SURFACE EQUIPMENT - TANGIBLE**

7012350	Misc. Piping, Fittings & Valves	99,681
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7016180	Freight - truck	9,942
7001190	Contract Engineering	6,159
7012290	Metering and Instrumentation	165,697
7012230	I&E Materials	98,948
7012200	Gas Treatment	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,154
7012100	Water Treater	83,211
7012640	Flare & Accessories	12,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	22,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>\$1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST** **\$ 1,050,000**

**ARTIFICIAL LIFT**

7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,028
7012550	Production Trees	5,071
7012580	Tubing	306,482
7016190	Freight	5,071
7018150	Rentals	6,085
7019130	Kill Fluid	3,028
7019220	Well Services & Rig	24,339
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST** **\$ 431,000**

**SUMMARY OF ESTIMATED DRILLING WELL COSTS**

	<b>TOTAL COST</b>
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETIONS COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 805H	DEVELOPMENT	RECOMPLETION
Location	330' FEL & 99' FNL of Section 34, 22S-28E	X EXPLOITATION	WORKOVER
Prospect	Malaga		
Est Total Depth	25,220	Est Drilling Days	34,192
		Est Completion Days	11

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>\$275,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	352,022
7012050	Production Casing	615,216
7012050	Drig Liner Hanger, Tieback Eq & Csg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7012040	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	8,225
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7290002	Drilling Rig Mob/Demob	106,923
7290002	Drilling Rig - day work/footage	888,260
7019000	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,925
7012310	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	87,248
7016350	Fuel (Rig)	137,583
7019140	Fuel (Road)	49,349
7001460	Water (non potable)	41,124
7012350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging+osteering	26,772
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	57,574
7019110	Casing Inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7016180	Freight - truck	41,124
7001460	Water hauling and disposal (includes soil farming)	98,698
7001150	Contract Services - Disposal/Non-Hazardous Waste	131,597
7001440	Vacuum Trucks	16,450
7000030	Contract Labor - general	49,349
7000010	Contract Labor - Operations	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	25,207
7260001	Rig Equipment and Misc.	177,656
7001110	Telecommunications Services	8,225
7001120	Consulting Services	186,539
7001400	Safety and Environmental	61,180
7330002	Rental Buildings (trailers)	21,207
7019910	Corng (sidewalks & analysis)	-
7011010	8% Contingency & Taxes	371,387
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>
<b>TOTAL DRILLING COST</b>		<b>\$5,027,220</b>

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 805H

GL CODE	DESCRIPTION	ESTIMATED COST
7012580	Tubing	-
7012040	Tubing Accessories ( nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,487
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 & equib)	511,234
7390002	Fracturing Services	6,893,556
7019320	Perforating	913,137
7019360	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,270
7016130	Freight - Truck (haul pipe, drig & comp)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment (incl drig; lightplant,hydra-walk)	-
7290003	CT Downhole Rental Equipment (ie. BH, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,889
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zipper Manifold	235,663
7019300	Frack Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498

7250001	Equipment Rental   w/o operator, frac tanks, lifts/plants	304,597
7330002	Rental Buildings (trailers)	-
7000030	Contract Labor - Pumping (pump down pumps)	59,889
7011010	8% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>59,491,920</b>

**TOTAL COMPLETION COST** **59,506,920**

SURFACE EQUIPMENT - TANGIBLE		
7012350	Misc. Piping, Fittings & Valves	99,681
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	108,258
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,510
7016180	Freight - truck	9,942
7001350	Contract Engineering	6,159
7012280	Metering and Instrumentation	159,687
7012290	I&E Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,154
7012100	Heater Treater	83,211
7012640	Flare & Accessories	11,087
7000010	Electrical Labor	54,674
7000010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	21,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST** **\$ 1,050,000**

ARTIFICIAL LIFT		
7000030	Contract Labor	5,071
7001120	Consultant	4,056
7000230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,028
7012550	Production Tree	5,071
7012580	Tubing	306,482
7016190	Freight	5,071
7018150	Rentals	6,085
7018130	Kill Fluid	1,028
7018220	Well Services & Rig	24,339
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST** **\$ 431,000**

SUMMARY OF ESTIMATED DRILLING WELL COSTS	TOTAL COST
TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,017,220
TOTAL COMPLETION COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000
<b>GRAND TOTAL COST</b>	<b>\$16,290,140</b>

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_ Signature: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

DATE 12/15/2022  
 DRILLING & LOCATION PREPARED BY COURT NELSON  
 COMPLETION PREPARED BY KRISTEN DRAIN  
 FACILITIES PREPARED BY HARSHA DISSANAYAKE  
 ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE

Asset Team	PERMIAN		
Field	Purple Sage Wolfcamp	WILDCAT	EXPLORATION
Lease/Facility	Chaos WC Fed Com 806H	DEVELOPMENT	RECOMPLETION
Location	330' FEL & 330' FNL of Section 34, 22S-28E	X EXPLOITATION	WORKOVER
Prospect	Malaga		
Est Total Depth	25,640	Est Drilling Days	34,192
		Est Completion Days	11

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access	165,000
7001250	Land Broker Fees and Services	110,000
		0
<b>TOTAL LOCATION COST - INTANGIBLE</b>		<b>\$275,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Conductor Pipe	41,124
7012050	Surface Casing	27,964
7012050	Intermediate Casing 1	85,538
7012050	Intermediate Casing 2	352,022
7012050	Production Casing	615,216
7012050	Drill Liner Hanger, Tieback Eq & Ctg Accessories	41,124
7012550	Drilling Wellhead Equipment	39,479
7013080	Casing & Tubing Access	106,923
7290003	Miscellaneous MRO Materials	8,225
		-
<b>TOTAL DRILLING - TANGIBLE</b>		<b>\$1,317,615</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7290002	Drilling Rig Mob/Demob	106,923
7290002	Drilling Rig - day work/footage	888,280
7019040	Directional Drilling Services	310,240
7019020	Cement and Cementing Service Surface	24,674
7019020	Cement and Cementing Service Intermediate 1	41,124
7019020	Cement and Cementing Service Intermediate 2	74,023
7019020	Cement and Cementing Service Production	139,822
7019140	Mud Fluids & Services	114,125
7012510	Solids Control equipment	79,945
7012020	Bits	222,070
7019010	Casing Crew and Services	82,248
7016350	Fuel (Rig)	137,683
7019140	Fuel (Mud)	49,349
7001460	Water (non potable)	41,124
7013350	Water (potable)	8,225
7019000	Well Logging Services	-
7019150	Mud Logging-geosteering	26,772
7019250	Stabilizers, Hole Openers, Underreamers (DH rentals)	57,574
7019110	Casing inspection/cleaning	24,674
7019110	Drill pipe/collar inspection services	16,450
7016180	Freight - truck	41,124
7001460	Water hauling and disposal (includes soil farming)	98,698
7001440	Contract Services - Disposal/Non-Hazardous Waste	16,450
7000030	Vacuum Trucks	49,349
7000010	Contract Labor - general	4,935
7001200	Contract Services - Facilities	16,450
7019300	Well Services - Well Control Services	37,629
7019350	Well Services - Well/Wellhead Services	16,450
7290003	Rental Tools and Equipment (surface rentals)	22,207
7260001	Rig Equipment and Misc.	177,655
7001110	Telecommunications Services	8,225
7001120	Consulting Services	186,539
7001400	Safety and Environmental	62,180
7330002	Rental Buildings (trailers)	22,207
7019310	Coring (sidewalls & analysis)	-
7011010	8% Contingency & Taxes	372,187
<b>TOTAL DRILLING - INTANGIBLE</b>		<b>\$3,709,605</b>
<b>TOTAL DRILLING COST</b>		<b>\$5,027,220</b>

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

DATE 12/15/2022

Asset Team	PERMIAN
Field	Purple Sage Wolfcamp
Lease/Facility	Chaos WC Fed Com 806H

GL CODE	DESCRIPTION	ESTIMATED COST
7012580	Tubing	-
7013080	Tubing Accessories ( nipple, wireline entry)	-
7012550	Wellhead Equip	15,000
7012560	Packers - Completion Equipment	-
		-
<b>TOTAL COMPLETION - TANGIBLE</b>		<b>\$15,000</b>

GL CODE	DESCRIPTION	ESTIMATED COST
7001270	Location and Access (dress location after rig move, set anchors)	16,767
7290002	Drilling Rig During Completion	-
7019140	Mud Fluids & Services	-
7019030	Coiled Tubing Services (3 runs)	263,487
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 & eqtjp)	511,134
7290002	Fracturing Services	6,893,556
7019330	Perforating	913,137
7019360	Wireline Services	-
7001460	Water Hauling & Disposal (frac fluids)	383,170
7016180	Freight - Truck (haul pipe, drlg & compl)	-
7290003	BOP Rental & Testing	-
7290003	Rental Tools and Equipment ( Incl drlg; light/lant, hydr-walk)	-
7290003	CT Downhole Rental Equipment (ie. Bit, BHA)	77,848
7290003	Contract Labor - general	-
7000030	Telecommunications Services	59,883
7001110	Safety and Environmental	-
7001400	Consulting Services	157,493
7001120	Zipper Manifold	335,663
7019300	Frac Stack Rentals	203,604
7016180	Freight (Transportation Services)	11,498



7260001	Equipment Rental (w/o operator, frac tanks, lights, lants)	304,597
7330002	Rental Buildings (trailers)	-
7030030	Contract Labor - Pumping (pump-down pumps)	59,883
7011010	8% Contingency & Taxes	-
<b>TOTAL COMPLETION - INTANGIBLE</b>		<b>\$9,491,920</b>

**TOTAL COMPLETION COST \$9,506,920**

**SURFACE EQUIPMENT - TANGIBLE**

7012350	Misc. Piping, Fittings & Valves	99,681
7005640	Company Labor & Burden	-
7000030	Contract Labor - General	108,238
7001110	Telecommunication equip (Telemetry)	-
7012410	Line Pipe & Accessories	28,858
7012270	Miscellaneous Materials (containment system)	30,060
7008060	SCADA	9,530
7016180	Freight - truck	9,942
7001130	Contract Engineering	6,159
7012290	Metering and Instrumentation	168,687
7012290	I&E Materials	98,948
7012200	Gas Treating	-
7012200	Dehydration	-
7012010	Compressor	11,448
7012350	Power	-
7012610	Vapor Recovery Unit	-
7012440	Separator & other pressure vessels	159,945
7012500	Tanks	28,154
7012100	Heater Treater	83,211
7012640	Flare & Accessories	12,087
7009010	Electrical Labor	54,874
7009010	Mechanical Labor	118,232
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	-
7012350	Electrical Power (electrical cooperative construction costs)	21,148
<b>TOTAL SURFACE EQUIPMENT - TANGIBLE</b>		<b>\$1,050,000</b>

**TOTAL SURFACE EQUIPMENT COST \$ 1,050,000**

**ARTIFICIAL LIFT**

7000030	Contract Labor	5,071
7001120	Consultant	4,056
7008230	Time Writing/Overhead	5,071
7012180	Artificial Lift Equipment	265,699
7012350	Materials & Supplies	2,028
7012550	Production Tree	5,071
7012580	Tubing	106,482
7016190	Freight	5,071
7018150	Rentals	6,285
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,339
<b>TOTAL ARTIFICIAL LIFT</b>		<b>431,000</b>

**TOTAL ARTIFICIAL LIFT COST \$ 431,000**

**SUMMARY OF ESTIMATED DRILLING WELL COSTS**

TOTAL LOCATION COST	\$ 275,000
TOTAL DRILLING COST	\$ 5,027,220
TOTAL COMPLETIONS COST	\$ 9,506,920
TOTAL SURFACE EQUIPMENT COST	\$ 1,050,000
TOTAL ARTIFICIAL LIFT COST	\$ 431,000

**GRAND TOTAL COST \$16,290,140**

**EXTRA EXPENSE INSURANCE**

- I elect to be covered by Operator's Extra Expense Insurance and pay my proportionate share of the premium.
- I elect to purchase my own well control insurance policy.

If neither box is checked above, non-operating working interest owner elects to be covered by Operator's well control insurance.

Prepared by: \_\_\_\_\_ Date: \_\_\_\_\_

Company Approval: \_\_\_\_\_ Date: \_\_\_\_\_

Joint Owner Interest: \_\_\_\_\_ Amount: \_\_\_\_\_

Joint Owner Name: \_\_\_\_\_

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

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

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

CASE NO. 23348

SELF-AFFIRMED DECLARATION OF DEANA M. BENNETT

Deana M. Bennett, attorney in fact and authorized representative of Marathon Oil Permian, LLC, the Applicant herein, declares as follows:

1) The above-referenced Application was provided under notice letter, dated February 7, 2023, and attached hereto, as Exhibit A.

2) Exhibit B is the mailing list, which shows the notice letters were delivered to the USPS for mailing on February 7, 2023.

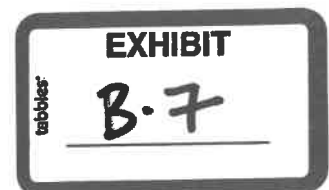
3) Exhibit C is the certified mailing tracking information, which is automatically compiled by CertifiedPro, the software Modrall uses to track the mailings. This spreadsheet shows the names and addresses of the parties to whom notice was sent and the status of the mailing.

4) Exhibit D is the Affidavit of Publication from the Carlsbad Current Argus, confirming that notice of the March 2, 2023 hearing was published on February 15, 2023.

5) I attest under penalty of perjury under the laws of the State of New Mexico that the information provided herein is correct and complete to the best of my knowledge and belief.

Dated: April 4, 2023

  
\_\_\_\_\_  
Deana M. Bennett





MODRALL SPERLING  
LAWYERS

February 7, 2023

Deana M. Bennett  
505.848.1834  
dmb@modrall.com

**VIA CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

**Re: APPLICATION OF MARATHON OIL PERMIAN, LLC FOR  
COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.  
CASE NO. 23348**

TO: AFFECTED PARTIES

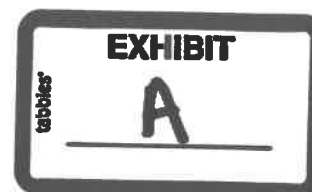
This letter is to advise you that Marathon Oil Permian, LLC (“Marathon”) has filed the enclosed application.

In Case No. 23348, Marathon seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying Sections 32, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Chaos WC Fed Com 701H, Chaos WC Fed Com 702H, Chaos WC Fed Com 703H, Chaos WC Fed Com 704H, Chaos WC Fed Com 801H, Chaos WC Fed Com 802H, Chaos WC Fed Com 803H, Chaos WC Fed Com 804H, Chaos WC Fed Com 805H, and Chaos WC Fed Com 806H** wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed interval for the **Chaos WC Fed Com 804H** well is less than 330’ from the adjoining tracts and the Division’s rules allow for the inclusion of proximity tracts within the proposed spacing unit for the wells. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 3 ½ miles North of Loving, New Mexico.

**The hearing will be conducted remotely on March 2, 2023 beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: <https://www.emnrd.nm.gov/ocd/hearing-info/>. This hearing is subject to continuance by the Division to a subsequent docket date.**

As a party who may be affected by this application, we are notifying you of your right to appear at the hearing and participate in this case, including

Modrall Spierling  
Roehl Harris & Sisk P.A.  
  
500 Fourth Street NW  
Suite 1000  
Albuquerque,  
New Mexico 87102  
  
PO Box 2168  
Albuquerque,  
New Mexico 87103-2168  
  
Tel: 505.848.1800  
www.modrall.com



Page 2

the right to present evidence either in support of or in opposition to the applications. Failure to appear at the hearing may preclude you from any involvement in this case at a later date.

You are further notified that if you desire to appear in this case, then you are requested to file a Pre-Hearing Statement with the Division at least four business days in advance of a scheduled hearing before the Division or the Commission, but in no event later than 5:00 p.m. mountain time, on the Thursday preceding the scheduled hearing date, with a copy delivered to the undersigned.

Sincerely,

A handwritten signature in cursive script that reads "Deana M. Bennett".

Deana M. Bennett

*Attorney for Applicant*

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

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

CASE NO. 23348

**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, 33, and 34, 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 the Sections 32, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 1920-acre, more or less, standard spacing unit.
3. Marathon plans to drill the **Chaos WC Fed Com 701H, Chaos WC Fed Com 702H, Chaos WC Fed Com 703H, Chaos WC Fed Com 704H, Chaos WC Fed Com 801H, Chaos WC Fed Com 802H, Chaos WC Fed Com 803H, Chaos WC Fed Com 804H, Chaos WC Fed Com 805H, and Chaos WC Fed Com 806H** wells to a depth sufficient to test the Wolfcamp formation. These wells will be horizontally drilled.
4. These wells will be located within the Purple Sage Wolfcamp Gas Pool, which is subject to special pool rules that establish 330 foot setback requirements.

5. These wells will comply with the Division's setback requirements for this pool.

6. The completed interval for the **Chaos WC Fed Com 804H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed standard spacing unit for the wells.

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.

WHEREFORE, Marathon requests this application be set for hearing before an Examiner of the Oil Conservation Division on March 2, 2023 and after notice and hearing as required by law, the Division enter its order:

- A. Approving a standard 1920-acre Wolfcamp spacing unit;
- B. Pooling all mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within Sections 32, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico;
- C. Designating Marathon as operator of this unit and the wells to be drilled thereon;
- D. Authorizing Marathon to recover its costs of drilling, equipping and completing the wells;
- E. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

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

Respectfully submitted,

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

By: Deana M. Bennett

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

**CASE NO. 23348 : 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, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the **Chaos WC Fed Com 701H, Chaos WC Fed Com 702H, Chaos WC Fed Com 703H, Chaos WC Fed Com 704H, Chaos WC Fed Com 801H, Chaos WC Fed Com 802H, Chaos WC Fed Com 803H, Chaos WC Fed Com 804H, Chaos WC Fed Com 805H, and Chaos WC Fed Com 806H** wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed interval for the **Chaos WC Fed Com 804H** well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed spacing unit for the wells. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 3 ½ miles North of Loving, New Mexico.



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

PS Form 3877

Type of Mailing: CERTIFIED MAIL  
 02/07/2023

Firm Mailing Book ID: 240773

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0104 1890 49	David A. Falk and Vickye Faulk R782 East Derrick Road Carlsbad NM 88220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
2	9314 8699 0430 0104 1890 56	JAMRT, LLC 4491 Aspenwood Court Marietta GA 30062	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
3	9314 8699 0430 0104 1890 63	Harold F. Phillips 8508 Stable Glen Drive Dallas TX 75243	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
4	9314 8699 0430 0104 1890 70	John Phillips 8508 Stable Glen Drive Dallas TX 75243	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
5	9314 8699 0430 0104 1890 87	Lucy Phillips Gussoni 8508 Stable Glen Drive Dallas TX 75243	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
6	9314 8699 0430 0104 1890 94	Mark Phillips 8508 Stable Glen Drive Dallas TX 75243	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
7	9314 8699 0430 0104 1891 00	Mary Jo Phillips Mote 8508 Stable Glen Drive Dallas TX 75243	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
8	9314 8699 0430 0104 1891 17	Stephen Phillips 8508 Stable Glen Drive Dallas TX 75243	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
9	9314 8699 0430 0104 1891 24	Therese Phillips Clark 8508 Stable Glen Drive Dallas TX 75243	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
10	9314 8699 0430 0104 1891 31	A. Wayne Stevenson 6568 S. SR 55 Oxford IN 47971	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
11	9314 8699 0430 0104 1891 48	Alan D. Tuck, Jr. and Evelyn Tuck 2370 N. Euclid Upland CA 91786	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
12	9314 8699 0430 0104 1891 55	Andrew Woochul Shin 14962 Riverside Dr. Apple Valley CA 92307	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
	9314 8699 0430 0104 1891 62	Antero Royalties LLC 15601 Dallas Parkway Ste 900 Addison TX 75001	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
	9314 8699 0430 0104 1891 79	Ashley Susan Aarons 116 South Croft Ave #402 Los Angeles CA 90048	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
	9314 8699 0430 0104 1891 86	Bantam Royalties, LLC P.O. Box 10668 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



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16	9314 8699 0430 0104 1891 93	Barbara Watkins Naudain Revocable Living Trust Revocable Living Trust 3 Egrets Nest Dr. Savannah GA 31406	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
17	9314 8699 0430 0104 1892 09	Blue Mesa Limited Partnership 3600 Lovers Lane Dallas TX 75225	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
18	9314 8699 0430 0104 1892 16	Bob W. Dutton P.O. Box 2519 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
19	9314 8699 0430 0104 1892 23	Boscamp FLP LLP 5531 Winston Court Dallas TX 75220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
20	9314 8699 0430 0104 1892 30	Bruce Elbert Despain 2609 Bridger Blvd Sandy UT 84093	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
21	9314 8699 0430 0104 1892 47	Buddy White Family Limited Partnership 33 S. Lake Dr. Santa Rosa Beach FL 32459	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
22	9314 8699 0430 0104 1892 54	Castle Farms, LP 311 Kelleer St. Petaluma CA 94952	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
23	9314 8699 0430 0104 1892 61	Centurion Energy Corporation 500 West Ohio Ave. Ste. Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
24	9314 8699 0430 0104 1892 78	CEP Minerals, LLC P.O. Box 50820 Midland TX 79710	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
25	9314 8699 0430 0104 1892 85	Chaparral Minerals, LLC P.O. Box 5238 Midland TX 79704	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
26	9314 8699 0430 0104 1892 92	Charles A. Abrams and Marilyn K. Abrams Trustees of Abrams Living Trust 13880 Little Pond Road Valley Center CA 92082	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
27	9314 8699 0430 0104 1893 08	Charles R. Wiggins P.O. Box 10862 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
28	9314 8699 0430 0104 1893 15	Chester J. Stuebben 1275 Rock Ave. #HH5 North Plainfield NJ 70600	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
29	9314 8699 0430 0104 1893 22	Claudia Short, individually P.O. Box 25825 Albuquerque NM 87125	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
30	9314 8699 0430 0104 1893 39	CLM & B Enterprises LLC 24 Sloane Rd. Newburgh NY 12550	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



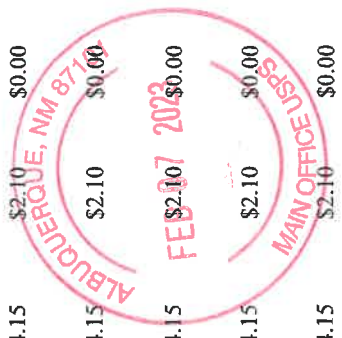
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31	9314 8699 0430 0104 1893 46	Conrad E. Coffield P.O. Box 3580 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
32	9314 8699 0430 0104 1893 53	David E. Prue Revocable Trust dated May 25, 1995 31693 South River Road #F Harrison Township MI 48045	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
33	9314 8699 0430 0104 1893 60	David Lee Power 3523 Stanolind Ave Midland TX 79707	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
34	9314 8699 0430 0104 1893 77	David Paul Rhodes and Susan Kim Rhodes 205 Derby Court Southlake TX 76092	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
35	9314 8699 0430 0104 1893 84	Davis Land & Minerals, Inc. P.O. Box 79188 Houston TX 77279	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
36	9314 8699 0430 0104 1893 91	Dennis and Patricia Anne Moreau Family Trust Family Trust 8865 8865 Mockingbird Circle Fountain Valley CA 92708	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
37	9314 8699 0430 0104 1894 07	Diego Cobo 20628 Arrow Highway #B Covina CA 91724	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
38	9314 8699 0430 0104 1894 14	Dollbeer Mesa Mobil Home Park, LP 8 Elk Grove Lane Laguna Niguel CA 92677	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
39	9314 8699 0430 0104 1894 21	Don B. Jones 22954 Hilton Buckeye AR 85236	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
40	9314 8699 0430 0104 1894 38	Duane B. Herbert and Carol B. Herbert 752 South 500 East Orem UT 84097	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
41	9314 8699 0430 0104 1894 45	Earl R. Bruno, Jr. P.O. Box 590 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
42	9314 8699 0430 0104 1894 52	Eastland Resources, Inc. Post Office Drawer 3488 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
43	9314 8699 0430 0104 1894 69	Enrico R. Ambrosi P.O. Box 2069 Lake Ozark MO 65049	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
44	9314 8699 0430 0104 1894 76	Erika Sarandis 118 Yucca Lane Sweetwater TX 79556	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
45	9314 8699 0430 0104 1894 83	Erwin Kellen LLC 1921 Humboldt Ave South Minneapolis MN 55403	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



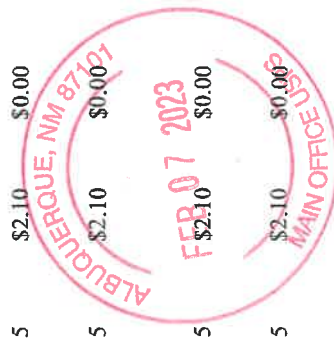
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46	9314 8699 0430 0104 1894 90	Estrellita Hermogeno and Romeo Hermogeno Trustees of Hermogeno Family Trust 13698 Balboa Ct. Fontana CA 92336	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
47	9314 8699 0430 0104 1895 06	Floyd Energy, Ltd. P.O. Box 52107 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
48	9314 8699 0430 0104 1895 13	Frank Donald LLC 5500 Wayzata Blvd Ste 1045 Golden Valley MN 55416	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
49	9314 8699 0430 0104 1895 20	Franz Weis 2808 Andover Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
50	9314 8699 0430 0104 1895 37	Frazier Family Partnership, LP 537 West Brow Road Lookout Mountain TN 37350	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
51	9314 8699 0430 0104 1895 44	Fred Ashbaugh and Susan Ashbaugh Living Trust Living Trust 104 Sussex Court Belton MO 64012	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
52	9314 8699 0430 0104 1895 51	Fred Henning and Ann Henning 336 Pembroke Lane So. Venice FL 34293	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
53	9314 8699 0430 0104 1895 68	Gerald F. Johnson, Trustee and subsequent Trustees of Gerald F. Johnson Trust 117A, 28th St. Manhattan Beach CA 90266	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
54	9314 8699 0430 0104 1895 75	Good News Minerals, LLC PO Box 50820 Midland TX 79710	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
55	9314 8699 0430 0104 1895 82	Goodrich Petroleum Company of Louisiana 808 Travis, Suite 1320 Houston TX 77002	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
56	9314 8699 0430 0104 1895 99	Hatch Royalty, LLC 1717 West 6th St. Ste 290 Austin TX 78703	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
57	9314 8699 0430 0104 1896 05	HDC Partners 5949 Sherry Lane, Suite 780 Dallas TX 75225	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
58	9314 8699 0430 0104 1896 12	HOG Partnership LP 5950 Cedar Springs Road, LB 242 Dallas TX 75235	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
59	9314 8699 0430 0104 1896 29	Irene Hyrb McIsaac 3452 Lyrac St. Oakton VA 22124	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



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60	9314 8699 0430 0104 1896 36	Irene M. Cimoli, Trustee of the Irene M. Cimoli Irene M. Cimoli Revocable Trust P.O. Box 4216 San Rafael CA 94913	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
61	9314 8699 0430 0104 1896 43	Jack Fletcher P.O. Box 10887 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
62	9314 8699 0430 0104 1896 50	James E. Burr 2505 Emerson Dr. Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
63	9314 8699 0430 0104 1896 67	Jane B. Ramsland P.O. Box 10505 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
64	9314 8699 0430 0104 1896 74	Jane B. Ramsland, Trustee of the Russell J. Ramsland Family Trust P.O. Box 10505 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
65	9314 8699 0430 0104 1896 81	Janesky Trust 11 Fawn Meadow Lane Shelton CT 06464	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
66	9314 8699 0430 0104 1896 98	Jeannie Rae Kessler, as her separate property P.O. Box 879 Duncan OK 73534	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
67	9314 8699 0430 0104 1897 04	Jeffrey Moore and LaVerne Moore 140 Maple Dr. Sacramento CA 95823	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
68	9314 8699 0430 0104 1897 11	JLC Partners LP 107 Royal Garden Terrace Madison MS 39110	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
69	9314 8699 0430 0104 1897 28	Jo Ann Rustamier Stinson 591 Longwood Lane Conroe TX 77302	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
70	9314 8699 0430 0104 1897 35	Joel L. Miller Energy, L.P. P.O. Box 3003 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
71	9314 8699 0430 0104 1897 42	John A. Udall and Cathy D. Udall Revocable Trust 7 Rocky Point Road Corona del Mar CA 92625	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
72	9314 8699 0430 0104 1897 59	John L. Budd and Christine Mary Budd 466 Highland View Court Mesquite NV 89027	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
73	9314 8699 0430 0104 1897 66	John W. Morris P.O. Box 1236 Carlsbad NM 88220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
74	9314 8699 0430 0104 1897 73	Judy Lee Rustamier Makowsky 1206 W. Scharbauer Dr. Midland TX 79705	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



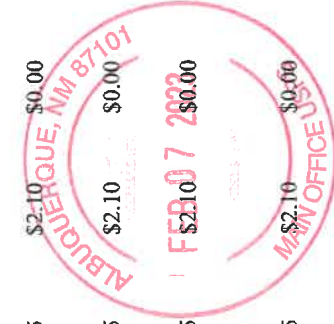
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75	9314 8699 0430 0104 1897 80	Karen E. Vanselow Family Trust 2590 Sapra St. Thousand Oaks CA 91362	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
76	9314 8699 0430 0104 1897 97	Kastman Oil Company LLC P.O. Box 5930 Lubbock TX 79408	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
77	9314 8699 0430 0104 1898 03	Kathleen J. Watkins and Albert L. Watkins 1414 S. 2nd St. Dekalb IL 60115	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
78	9314 8699 0430 0104 1898 10	Kathy J. Curtis Trust 3985 Bedaki Ave NE Lowell MI 49331	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
79	9314 8699 0430 0104 1898 27	Katrina Property, LP 2354 Beau Chene Dr. Biloxi MS 39535	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
80	9314 8699 0430 0104 1898 34	Kent Allen Herman and Kelly Herman 86 Southwest Century Dr. #451 Bend OR 97702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
81	9314 8699 0430 0104 1898 41	Kimbell Royalty Holdings, LLC 777 Tayloer St., Suite 810 Fort Worth TX 76012	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
82	9314 8699 0430 0104 1898 58	L.E. Oppermann 707 W. Indiana, Suite B Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
83	9314 8699 0430 0104 1898 65	Lamar E. Loyd P.O. Box 90037 Houston TX 77290	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
84	9314 8699 0430 0104 1898 72	Larry A. Clark 64503 Round Robin Land Tucson AZ 85739	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
85	9314 8699 0430 0104 1898 89	Larry Turner Star Route 2 Lamesa TX 79331	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
86	9314 8699 0430 0104 1898 96	Laura Leila Fanning and Jeanne Fanning Andrews 333 South 61st Ave Unit 1 Pensacola FL 32506	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
87	9314 8699 0430 0104 1899 02	Lee R. Gjovik and Lyleth E. Gjovik Trustees of Gjovik Revocable Trust 5209 Milward Dr. Madison WI 53711	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
88	9314 8699 0430 0104 1899 19	Lobo Oil 5123 Wilbur Ave. Tazana CA 91356	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
89	9314 8699 0430 0104 1899 26	Magnum Hunter Production, Inc. 600 E. Cofinas Blvd., Suite 1100 Irving TX 75039	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



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90	9314 8699 0430 0104 1899 33	Marvin L. Smith P.O. Box 10505 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
91	9314 8699 0430 0104 1899 40	Michael B. Meyers 26966 Calle Dolores Capistrano Beach CA 92624	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
92	9314 8699 0430 0104 1899 57	Michael John Despain 562 Draper Heights Way Draper UT 84093	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
93	9314 8699 0430 0104 1899 64	Mizel Resources, a Trust 4350 South Monaco Street, 5th Floor Denver CO 80237	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
94	9314 8699 0430 0104 1899 71	Mountain Lion Oil and Gas, LLC 7941 Katy Freeway, #117 Houston TX 77024	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
95	9314 8699 0430 0104 1899 88	MSH Family Real Estate Partnership II, LLC 4143 Maple Ave Ste 500 Dallas TX 75219	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
96	9314 8699 0430 0104 1899 95	NNoble FLP LLP 15601 Dallas Parkway Ste 900 Addison TX 75001	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
97	9314 8699 0430 0104 1900 07	Noble Royalties, Inc. 15601 N. Dallas Parkway Ste 900 Addison TX 75001	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
98	9314 8699 0430 0104 1900 14	Opal Wright, Trustee of the Roxy Ann Burkhead Separate Property Trust 3624 West Braveheart Dr. Eagle ID 83646	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
99	9314 8699 0430 0104 1900 21	Ortman Family Trust dated September 13, 1994 29 Mather Road San Anselmo CA 94960	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
100	9314 8699 0430 0104 1900 38	Ozark Exploration, Inc. 3838 Oak Lawn Ave., Suite 1525 Dallas TX 75210	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
101	9314 8699 0430 0104 1900 45	Pamela Power McBride 3807 Permian Ct. Midland TX 79703	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
102	9314 8699 0430 0104 1900 52	Parr Family Limited Partnership 1320 Blatt Boulevard Bradley IL 60915	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
103	9314 8699 0430 0104 1900 69	Pegasus Resources, LLC P.O. Box 123610 Fort Worth TX 76121	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
104	9314 8699 0430 0104 1900 76	Pierce Family Trust 609 Hickory Court Hurst TX 76054	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice

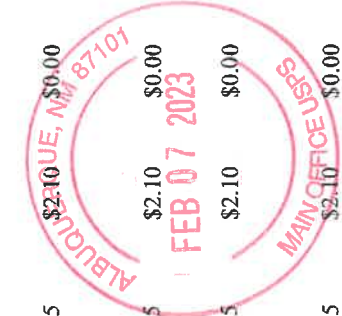
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105	9314 8699 0430 0104 1900 83	Quannah Exploration, LLC 200 North Loraine Ste 555 Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
106	9314 8699 0430 0104 1900 90	Randall Steven Braun 2050 S. Xenia Way Denver CO 80231	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
107	9314 8699 0430 0104 1901 06	Richard A. Calvert P.O. Box 4449 Palos Verdes CA 90274	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
108	9314 8699 0430 0104 1901 13	Richard D. Miller and Janc F. Miller 1885 Boardwalk St. Joseph MI 49085	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
109	9314 8699 0430 0104 1901 20	Richard Donnelly and Ann Ball P.O. Box 3506 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
110	9314 8699 0430 0104 1901 37	Richard Edwin Rogstad and Betty Jean Rogstad AB Living Trust P.O. Box 236 Bonsall CA 92003	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
111	9314 8699 0430 0104 1901 44	Richard R. Despain 8444 Willow Creek Dr. Sandy UT 84093	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
112	9314 8699 0430 0104 1901 51	Richard W. Munn 63 N. Greenvine Circle The Woodlands TX 77382	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
113	9314 8699 0430 0104 1901 68	Richard W. Stump 4723 Spring Meadow Lane #2 Midland TX 79705	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
114	9314 8699 0430 0104 1901 75	Robert A. Stine 971 Hygeia Encinitas CA 92024	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
115	9314 8699 0430 0104 1901 82	Robert Duncan and Heidi Duncan joint tenants with right of survivorship 2324 Shorewood Dr. Carmichael CA 95608	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
116	9314 8699 0430 0104 1901 99	Robert H. Marshall P.O. Box 1422 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
117	9314 8699 0430 0104 1902 05	Robert K Yamato and Judith S. Yamato Trustees of Yamato Trust 8482 Aspenwood Ave. Westminster CA 92683	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
118	9314 8699 0430 0104 1902 12	Rusk Capital Management LLC 7600 W. Tidwell Rd., Suite 800 Houston TX 77040	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice





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

PS Form 3877

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 02/07/2023

Firm Mailing Book ID: 240773

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
119	9314 8699 0430 0104 1902 29	Russell J. Ramsland, Sr. P.O. Box 10505 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
120	9314 8699 0430 0104 1902 36	Rutter and Wilbanks Corporation P.O. Box 3186 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
121	9314 8699 0430 0104 1902 43	Seeks Petroleum, Inc. P.O. Box 1015 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
122	9314 8699 0430 0104 1902 50	Serenity Resources, LLC P.O. Box 5240 Midland TX 79704	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
123	9314 8699 0430 0104 1902 67	Shields Rentals LP 641 Cherry Glenn Circle Nashville TN 37215	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
124	9314 8699 0430 0104 1902 74	Sisbro Oil and Gas LLC 4350 South Monaco Street, 5th Floor Denver CO 80237	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
125	9314 8699 0430 0104 1902 81	Slayton Investments, LLC P.O. Box 2035 Roswell NM 88202	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
126	9314 8699 0430 0104 1902 98	SMP Sidecar Titan Mineral Holdings, LP 4143 Maple Ave Ste 500 Dallas TX 75219	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
127	9314 8699 0430 0104 1903 04	SMP Titan Flex, LP 4143 Maple Ave Ste 500 Dallas TX 75219	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
128	9314 8699 0430 0104 1903 11	SMP Titan Mineral Holdings, LP 4143 Maple Ave Ste 500 Dallas TX 75219	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
129	9314 8699 0430 0104 1903 28	Spinmaker Investments, LP P.O. Box 3488 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
130	9314 8699 0430 0104 1903 35	Spinmaker Oil & Gas, LP Post Office Drawer 3488 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
131	9314 8699 0430 0104 1903 42	Stargazer Property, LLC 3440 Santa Clara Circle Costa Mesa CA 92626	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
132	9314 8699 0430 0104 1903 59	Stephen Paul Schaik, individually P.O. Box 26687 Albuquerque NM 87125	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
133	9314 8699 0430 0104 1903 66	Stephen Paul Schaik, Trustee of Karen Schaik Family Trust P.O. Box 26687 Albuquerque NM 87125	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



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

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134	9314 8699 0430 0104 1903 73	Stephen Paul Schalk, Trustee of Schalk Family Trust P.O. Box 26687 Albuquerque NM 87125	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
135	9314 8699 0430 0104 1903 80	StumpRock, LP 13205 Turkey Roost Road Manchaca TX 78652	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
136	9314 8699 0430 0104 1903 97	Susan H. Carrodus 227 Carmel Ave. El Carrito CA 94530	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
137	9314 8699 0430 0104 1904 03	Susannah D. Adelson, Trustee of the James Adelson & Family 2015 Trusts 15 East 5th Street, Suite 3300 Tulsa OK 74103	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
138	9314 8699 0430 0104 1904 10	TAS Royalty Company P.O. Box 5279 Austin TX 78763	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
139	9314 8699 0430 0104 1904 27	The Beneficarie(s) of the Rustamier Grandchildren's Trust 1206 W. Scharbauer Dr. Midland TX 79705	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
140	9314 8699 0430 0104 1904 34	The Enfield-Coffield Family Revocable Trust under P.O. Box 3580 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
141	9314 8699 0430 0104 1904 41	The Estate of Mr. Sande Wische, deceased Carol Wische, Personal Representative 13118 Redon Dr. Palm Beach Gardens FL 33410	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
142	9314 8699 0430 0104 1904 58	The Francisco C. Runas, Jr. and Hermelina P. Runas Family Trust 240 East 47th St. Long Beach CA 90805	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
143	9314 8699 0430 0104 1904 65	The George M Paulson, Jr. Revocable Trust 1258 North Oak Forest Rd Salt Lake City UT 84103	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
144	9314 8699 0430 0104 1904 72	The Heirs or Devises of Ted LaCaff P.O. Box 4083 Midland TX 79704	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
145	9314 8699 0430 0104 1904 89	The Jack C. Kinney Revocable Trust 1707 Pacific Coast Hwy #506 Hermosa Beach CA 90254	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
146	9314 8699 0430 0104 1904 96	The Ray C. Lombardi and Rosemarie Lombardi Revocable Living Trust 839 Shepard Way Redwood City CA 94062	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



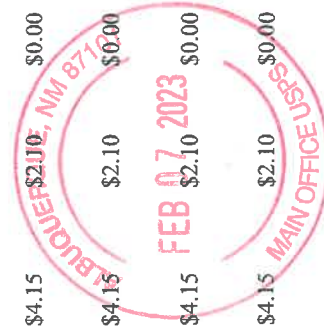
Karlene Schuman  
Modrall Spering Roehl Harris & Sisk P.A.  
500 Fourth Street, Suite 1000  
Albuquerque NM 87102

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147	9314 8699 0430 0104 1905 02	Thomas N. Turnquist and Annic T. Walljasper 2002 Madison St. Madison WI 53711	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
148	9314 8699 0430 0104 1905 19	Vail Consulting, LP 5019 Morris Ave. Addison TX 75001	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
149	9314 8699 0430 0104 1905 26	Vendetta Royalty Partners, Ltd. P.O. Box 141638 Austin TX 78714	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
150	9314 8699 0430 0104 1905 33	Wagner Trust dated December 9, 1985 P.O. Box 70067 Reno NV 89570	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
151	9314 8699 0430 0104 1905 40	Warren Ventures, Ltd. 808 W. Wall St. Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
152	9314 8699 0430 0104 1905 57	Wendy Pouliot 4260 Silver Crest Ave. Sacramento CA 95821	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
153	9314 8699 0430 0104 1905 64	William F. Brainerd P.O. Box 1891 Roswell NM 88202	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
154	9314 8699 0430 0104 1905 71	William Frank and Barbara Bozich Family Trust 3558 Windspun Dr. Huntington Beach CA 92699	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
155	9314 8699 0430 0104 1905 88	Windom Royalties, LLC 15601 Dallas Parkway Ste 900 Addison TX 75001	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
156	9314 8699 0430 0104 1905 95	Wood Heat Products, Inc. 155 County Rad 286 Niota TN 37826	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
157	9314 8699 0430 0104 1906 01	Zamaga Energy, LLC 1700 Pennsylvania Ave Ste #400 Washington DC 20006	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
158	9314 8699 0430 0104 1906 18	Zunis Energy, LLC 15 East 5th Street, Suite 3300 Tulsa OK 74103	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
159	9314 8699 0430 0104 1906 25	Alliance Land and Minerals, LLC P.O. Box 809 Artesia NM 88211	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
160	9314 8699 0430 0104 1906 32	Anne Kennedy and Elizabeth A. Bardelli, JT 200 Cross Keys Road, Unit R61 Baltimore MD 21210	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
161	9314 8699 0430 0104 1906 49	Camarie Oil and Gas, LLC 2502 Camarie Midland TX 79705	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



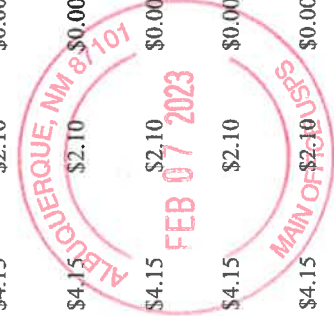
Karlene Schuman  
 Modrall Sperlberg Roehl Harris & Sisk P.A.  
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162	9314 8699 0430 0104 1906 56	Catherine Powell PO Box 1096 Snyder TX 79550	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
163	9314 8699 0430 0104 1906 63	Charlotte Link 1510 Northwind Road Louisville KY 40207	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
164	9314 8699 0430 0104 1906 70	Dorothy Bayles 6328 Chatham Road Oklahoma City OK 73132	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
165	9314 8699 0430 0104 1906 87	Eileen Iannelli 912 Midland Creek Drive Southlake TX 76029	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
166	9314 8699 0430 0104 1906 94	Estate of Irene E. Calvani P.O. Box 3187 Carlsbad NM 88221	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
167	9314 8699 0430 0104 1907 00	First National Bank of Santa Fe, Trustee of Dorothy Harroun Irrevocable Trust 200 Lomas Blvd NW Albuquerque NM 87102	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
168	9314 8699 0430 0104 1907 17	HARROUN ENERGY, LLC c/o New Mexico Bank & Trust P.O. Box 2300 Albuquerque NM 87103	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
169	9314 8699 0430 0104 1907 24	Jerry Calvani P.O. Box 172 Carlsbad NM 88221	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
170	9314 8699 0430 0104 1907 31	Karen Ward 1218 Lady Lane Duncanville TX 75116	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
171	9314 8699 0430 0104 1907 48	Leo Lopez 325 Smedley Rd Carlsbad NM 88220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
172	9314 8699 0430 0104 1907 55	Leonardo Lopez 315 Smedley Rd. Carlsbad NM 88220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
173	9314 8699 0430 0104 1907 62	Lucy Allen 1708 Versailles Allen TX 75002	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
174	9314 8699 0430 0104 1907 79	OLLI Energy, LLC 200 N. Lorraine Street, Suite 510 Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
175	9314 8699 0430 0104 1907 86	Prospector, LLC P.O. Box 429 Roswell NM 88202	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
176	9314 8699 0430 0104 1907 93	Robert C. McGuire 9543 Rockbrook Dallas TX 75220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



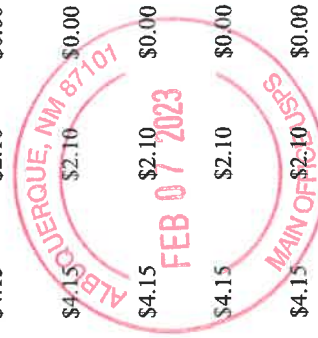
Karlene Schuman  
 Modrall Spering Roehl Harris & Sisk P.A.  
 500 Fourth Street, Suite 1000  
 Albuquerque NM 87102

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177	9314 8699 0430 0104 1908 09	Robert Calvani 1023 Calvani Rd. Carlsbad NM 88220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
178	9314 8699 0430 0104 1908 16	Robert Lynn Pack P.O. Box 3217 Carlsbad NM 88221	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
179	9314 8699 0430 0104 1908 23	Ross Duncan Properties P.O. Box 647 Artesia NM 88211	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
180	9314 8699 0430 0104 1908 30	Susan R. Weiss 15 Lambert St. Apt #1413 Cambridge MA 02141	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
181	9314 8699 0430 0104 1908 47	The Allar Company P.O. Box 1567 Graham TX 76450	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
182	9314 8699 0430 0104 1908 54	The State of New Mexico 310 Old Santa Fe Trail Santa Fe NM 87501	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
183	9314 8699 0430 0104 1908 61	UNITED STATES OF AMERICA Dept of Interior / BLM 301 Dinosaur Trail Santa Fe NM 87508	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
184	9314 8699 0430 0104 1908 78	Valspark Oil and Gas, LLC 36 Positano Loop Roswell NM 88201	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
185	9314 8699 0430 0104 1908 85	Featherstone Development P.O. Box 429 Roswell NM 88202	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
186	9314 8699 0430 0104 1908 92	Heirs of H. Gerald Nathan 3933 Park Lane Dallas TX 75220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
187	9314 8699 0430 0104 1909 08	Heirs or devisees of Maurice W. Nathan 3933 Park Lane Dallas TX 75220	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
188	9314 8699 0430 0104 1909 15	John E. Schaik 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
189	9314 8699 0430 0104 1909 22	Nadel & Gussman Permian, LLC 15 East Fifth St. Ste 3300 Tulsa OK 74103	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
190	9314 8699 0430 0104 1909 39	MRC Permian Company 5400 LBJ Freeway, Suite 1500 Dallas TX 75240	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
191	9314 8699 0430 0104 1909 46	Accelerate Resources Corporation 5949 Sherry Lane Ste 1060 Dallas TX 75225	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



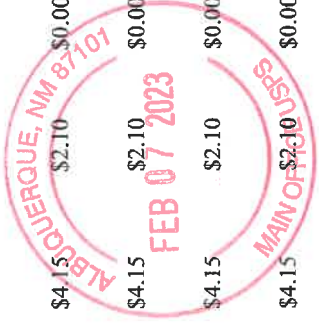
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192	9314 8699 0430 0104 1909 53	Black Stone Energy Company, LLC 1001 Fannin St. Ste 2020 Houston TX 77002	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
193	9314 8699 0430 0104 1909 60	BPX Properties (NA), LP 1700 Platte St. Denver CO 80202	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
194	9314 8699 0430 0104 1909 77	Chester J. Stuebben 1275 Rock Ave. #HH5 North Plainfield NJ 70600	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
195	9314 8699 0430 0104 1909 84	Cimarron Energy Corporation 350 N. St. Paul St. Dallas TX 75201	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
196	9314 8699 0430 0104 1909 91	EOG Resources, Inc. P.O. Box 4362 Houston TX 77210	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
197	9314 8699 0430 0104 1910 04	G. Arthur Donnelly, III, Trustee of G Arthur Donnelly III Children's Trust P.O. Box 3488 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
198	9314 8699 0430 0104 1910 11	Hooker Energy, LLC P.O. Box 701 Abilene TX 79604	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
199	9314 8699 0430 0104 1910 28	Hooker-O'Kelly, Ltd. P.O. Box 7479 Odessa TX 79760	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
200	9314 8699 0430 0104 1910 35	Irene Hyrb McIsaac 3452 Lyrac St. Oakton VA 22124	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
201	9314 8699 0430 0104 1910 42	Jan Donnelly O'Neill, Trustee of the Jan Donnelly O'Neill Children's Trust P.O. Drawer 3488 Midland TX 79702	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
202	9314 8699 0430 0104 1910 59	Melissa Kay 221 Grove Court Horseshoe Bay TX 78657	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
203	9314 8699 0430 0104 1910 66	Occidental Permian Limited Partnership 5 Greenway Plaza Ste 110 Houston TX 77046	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
204	9314 8699 0430 0104 1910 73	Ozark Exploration, Inc. 3838 Oak Lawn Ave., Suite 1525 Dallas TX 75210	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
205	9314 8699 0430 0104 1910 80	Ridge Runner Resources Agent, Inc. 4000 N. Big Spring Ste 210 Midland TX 79705	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
206	9314 8699 0430 0104 1910 97	Roemer Oil Company 10 W. Shady Lane Houston TX 77063	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice



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207	9314 8699 0430 0104 1911 03	The Estate of Martha R. Schalk, deceased P.O. Box 26687 Albuquerque NM 87125	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
208	9314 8699 0430 0104 1911 10	The Estate of Mr. Sande Wische, deceased 13118 Redon Dr. Palm Beach Gardens FL 33410	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
209	9314 8699 0430 0104 1911 27	Tumbler Operating Partners, LLC 1150 N. Kimball Ave., Ste 100 Southlake TX 76092	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
210	9314 8699 0430 0104 1911 34	Winged Foot Oil Co., Inc. 1030 Andrews Highway, Ste 204 Midland TX 79701	\$1.50	\$4.15	\$2.10	\$0.00	81363 Chaos Notice
<b>Totals:</b>			<b>\$315.00</b>	<b>\$871.50</b>	<b>\$441.00</b>	<b>\$0.00</b>	
<b>Grand Total:</b>						<b>\$1,627.50</b>	



List Number of Pieces Listed by Sender: 210

Total Number of Pieces Received at Post Office: 210

Postmaster: Name of receiving employee: [Signature]

Dated:







9314869904300104189377	2023-02-07 12:11 PM	81363 Chaos	David Paul Rhodes and Susan Kim Rhodes	TX	76092	Lost	Return Receipt - Electronic, Certified Mail	2023-02-09 12:52 PM
9314869904300104189380	2023-02-07 12:11 PM	-81363 Chaos	David Lee Power	TX	79707	Delivered	Return Receipt - Electronic, Certified Mail	2023-02-09 12:52 PM
9314869904300104189383	2023-02-07 12:11 PM	-81363 Chaos	David E. Prue Revocable Trust dated May 25, 1995	MI	48045	Lost	Return Receipt - Electronic, Certified Mail	2023-02-09 12:52 PM
9314869904300104189346	2023-02-07 12:11 PM	81363 Chaos	Conrad E. Coffield	TX	79702	Returned to Sender	Return Receipt - Electronic, Certified Mail	2023-02-09 12:52 PM
9314869904300104189339	2023-02-07 12:11 PM	81363 Chaos	CLM & B Enterprises LLC	NY	12450	Lost	Return Receipt - Electronic, Certified Mail	2023-02-09 12:52 PM
9314869904300104189322	2023-02-07 12:11 PM	81363 Chaos	Claudia Short, Individually	NM	87125	Delivered	Return Receipt - Electronic, Certified Mail	2023-02-09 12:52 PM
9314869904300104189315	2023-02-07 12:11 PM	81363 Chaos	Chester J. Stuebgen	NJ	70600	Lost	Return Receipt - Electronic, Certified Mail	2023-02-10 12:49 PM
9314869904300104189308	2023-02-07 12:11 PM	81363 Chaos	Charles R. Wiggins	TX	79702	Delivered	Return Receipt - Electronic, Certified Mail	2023-02-10 12:49 PM
9314869904300104189292	2023-02-07 12:11 PM	81363 Chaos	Charles A. Abrams and Marilyn K. Abrams	CA	92082	Lost	Return Receipt - Electronic, Certified Mail	2023-02-22 9:36 AM
9314869904300104189285	2023-02-07 12:11 PM	81363 Chaos	Chapparral Minerals, LLC	TX	79704	Delivered	Return Receipt - Electronic, Certified Mail	2023-02-09 10:26 AM
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# Carlsbad Current Argus.

PART OF THE USA TODAY NETWORK

## Affidavit of Publication

Ad # 0005595870

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POBOX 2168

ALBUQUERQUE, NM 87103

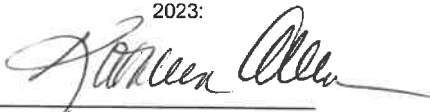
I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements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

02/15/2023



Legal Clerk

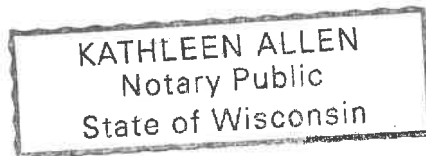
Subscribed and sworn before me this February 15, 2023:



State of WI, County of Brown  
NOTARY PUBLIC



My commission expires



Ad # 0005595870  
PO #: Cause No. 23348  
# of Affidavits: 1

This is not an invoice



CASE NO. 23348: Notice to all affected parties, as well as heirs and devisees of David A. Falk and Vickye Faulk; JAMRT, LLC; Harold F. Phillips; John Phillips; Lucy Phillips Gussoni; Mark Phillips; Mary Jo Phillips Mote; Stephen Phillips; Therese Phillips Clark; A. Wayne Stevenson; Alan D. Tuck, Jr. and Evelyn Tuck; Andrew Woonchul Shin; Antero Royalties LLC; Ashley Susan Aarons; Bantam Royalties, LLC; Barbara Watkins Naudain Revocable Living Trust dated July 3, 1991; Blue Mesa Limited Partnership; Bob W. Dutton; Boscamp FLP LLP; Bruce Elbert Despain; Buddy White Family Limited Partnership; Castle Farms, LP; Centurion Energy Corporation; CEP Minerals, LLC; Chaparral Minerals, LLC; Charles A. Abrams and Marilyn K. Abrams, Trustees of the Abrams Living Trust dated September 8, 1992; Charles R. Wiggins; Chester J. Stuebben; Claudia Short, individually; CLM & B Enterprises LLC; Conrad E. Coffield; David E. Prue Revocable Trust dated May 25, 1995; David Lee Power; David Paul Rhodes and Susan Kim Rhodes; Davis Land & Minerals, Inc.; Dennis and Patricia Anne Moreau Family Trust; Diego Cobo; Dollbeer Mesa Mobil Home Park, LP; Don B. Jones; Duane B. Herbert and Carol B. Herbert; Earl R. Bruo, Jr.; Eastland Resources, Inc.; Enrico R. Ambrsi; Erika Sarandis; Erwin Kellen LLC; Estrellita Hermogeno and Romeo Hermogeno, Trustees of the Hermogeno Family Trust; Floyd Energy, Ltd.; Frank Donald LLC; Franz Weis; Frazier Family Partnership, LP; Fred Ashbaugh and Susan Ashbaugh Living Trust dated August 22, 1996; Fred Henning and Ann Henning; Gerald F. Johnson, Trustee and subsequent Trustees of the Gerald F. Johnson Trust dated September 10, 1991; Good News Minerals, LLC; Goodrich Petroleum Company of Louisiana; Hatch Royalty, LLC; HDC Partners; Irene Hyrb Mclsaac; Irene M. Cimoli, Trustee of the Irene M. Cimoli Revocable Trust dated May 11, 1998; Jack Fletcher; James E. Burr; Jane B. Ramsland; Jane B. Ramsland, Trustee of the Russell J. Ramsland Family Trust; Janesky Trust; Jeanne Rae Kessler, as her separate property; Jeffrey Moore and LaVerne Moore; JLC Partners LP; Jo Ann Rustamier Stinson; Joel L. Miller Energy, L.P.; John A. Udall and Cathy D. Udall Revocable Trust dated December 21, 1989; John L. Budd and Christine Mary Budd; John W. Morris; Judy Lee Rustamier Makowsky; Karen E. Vanselow Family Trust; Kastman Oil Company LLC; Kathleen J. Watkins and Albert L. Watkins; Kathy J. Curtis Trust; Katrina Property, LP; Kent Allen Herman and Kelly Herman; Kimbell Royalty Holdings, LLC; L.E. Oppermann; Lamar E. Loyd; Larry A. Clark; Larry Turner; Laura Leila Fanning and Jeanne Fanning Andrews; Lee R. Gjovik and Lyleth E. Gjovik, Trustees of the Lee R. and Lyleth E. Gjovik, Joint Revocable Trust dated October 21, 2003; Lobo Oil; Magnum Hunter Production, Inc.; Marvin L. Smith; Michael B. Meyers; Michael John Despain; Mizel Resources, a Trust; Mountain Lion Oil and Gas, LLC; MSH Family Real Estate Partnership II, LLC; N Noble FLP LLP; Noble Royalties, Inc.; Opal Wright, Trustee of the Roxy Ann Burkhead Separate Property Trust under agreement dated December 16, 2002; Ortman Family Trust dated September 13, 1994; Ozark Exploration, Inc.; Pamel Power McBride; Parr Family Limited Partnership; Pegasus Resources, LLC; Pierce Family Trust; Quannah Exploration, LLC; Randall Steven Braun; Richard A. Calvert; Richard D. Miller and Jane F. Miller, husband and wife, as tenants by the entirety; Richard Donnelly and Ann Ball Donnelly, his wife; Richard Edwin Rogstad and Betty Jean Rogstad AB Living Trust dated January 17, 2003; Richard R. Despain; Richard W. Munn; Richard W. Stump; Robert A. Stine, a single man; Robert Duncan and Heidi Duncan, as joint tenants with right of survivorship; Robert H. Marshall; Robert K. Yamato and Judith S. Yamato, Trustees of the Yamato Trust dated September 30, 1988, restated June 29, 1990; Rusk Capital Management LLC; Russell J. Ramsland, Sr.; Rutter and Wilbanks Corporation; Seeks Petroleum, Inc.; Serenity Resources, LLC; Shields Rentals LP; Sisbro Oil and Gas LLC; Slayton Investment, LLC; SMP Sidecar Titan Mineral Holdings, LP; SMP Titan Flex, LP; SMP Titan Mineral Holdings, LP; Spinnaker Investments, LP; Spinnaker Oil & Gas, LP; Stargazer Property, LLC; Stephen Paul Schalk, individually; Stephen Paul Schalk, Trustee of the Karen Schalk Family Trust, established under the will of Martha Rouse Schalk, deceased; Stephen Paul Schalk, Trustee of the Schalk Family Trust under the will of John E. Schalk; Stump Rock, LP; Susan H. Carrodus; Susannah D. Adelson, Trustee of the James Adelson and Family 2015 Trusts; TAS Royalty Company; The Beneficiaries of the Rustamier Grandchildren's Trust; the Enfield-Coffield Family Revocable Trust under Trust Agreement dated February 2, 1998; the Estate of Mr. Sande Wische, deceased Carol Wische, Personal Representative; The Francisco C. Runas, Jr. and Hermelina P. Runas Family Trust dated December 10, 1993; The George M. Paulson, Jr. Revocable Trust; The Heirs or Devisees of Ted LaCaff, deceased; The Jack C. Kinney Revocable Trust; The Ray C. Lombardi and Rosemarie Lombardi Revocable Living Trust; Thomas N. Turnquist and Annie T. Walljasper; Vail Consulting, LP; Vendetta Royalty Partners, Ltd.; Wagner Trust dated December 9, 1985; Warren Ventures, Ltd.; Wendy Pouliot; William F. Brainerd; William Frank and Barbara Bozich Family Trust dated November 8, 2004; Window Royalties, LLC; Wood Heat Pro-

ULLS, INC.; Zamaga Energy, LLC; Zumis Energy, LLC; Alliance Land and Minerals, LLC; Anne Kennedy and Elizabeth A. Bardelli, JT; Camarie Oil and Gas, LLC; Catherine Powell; Charlotte Link; Dorothy Bayles; Eileen Iannelli; Estate of Irene E. Calvani, deceased; First National Bank of Santa Fe, Trustee of the Dorothy S. Harroun Irrevocable Trust dated October 13, 1983; Harroun Energy, LLC c/o New Mexico Bank and Trust; Jerry Calvani; Karen Ward; Leo Lopez; Leonardo Lopez; Lucy Allen; OLLI Energy, LLC; Prospector, LLC; Robert C. McGuire; Robert Calvani; Robert Lynn Pack; Ross Duncan Properties; Susan R. Weiss; The Allar Company; The State of New Mexico; The United States of America Department of the Interior Bureau of Land Management; Valspark Oil and Gas, LLC; Featherstone Development Corporation; Heirs of H. Gerald Nathan, deceased; Heirs or devisees of Maurice W. Nathan, deceased; Margaret T. O'Neill, Trustee for Susan R. Weiss pursuant to Testamentary Trust created by the will of Philip P. Weiss, dated September 19, 1977; John E. Schalk; Nadel & Gussman Permian, LLC; MRC Permian Company; Accelerate Resources Corporation; Black Stone Energy Company, LLC; BPX Properties (NA), LP; Chester J. Stuebben; Cimarron Energy Corporation; Davis Land & Minerals, Inc.; EOG Resources, Inc.; G. Arthur Donnelly, III, Trustee of the Arthur Donnelly, III Children's Trust; HOG Partnership LP; Hooker Energy, LLC; Hooker-O'Kelly, Ltd.; Irene Hyrb McIsaac; James E. Burr; Jan Donnelly O'Neill, Trustee of the Jan Donnelly O'Neill Children's Trust; Melissa Kay O'Kelley; Occidental Permian Limited Partnership; Ozark Exploration, Inc.; Ridge Runner Resources Agent, Inc.; Roemer Oil Company; The Estate of Martha R. Schalk, deceased; The Estate of Mr. Sande Wische, deceased; Tumbler Operating Partners, LLC; and Winged Foot Oil Co., Inc. of Application of Marathon Oil Permian LLC for compulsory pooling, Eddy County, New Mexico. The State of New Mexico through its Oil Conservation Division hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on March 2, 2023 to consider this application. Information about accessing the electronic hearing is posted at "OCD NOTICES" at <https://www.emnrd.nm.gov/ocd/hearing-info/>. This hearing is subject to continuance by the Division to a subsequent docket date. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying Sections 32, 33, and 34, Township 22 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Chaos WC Fed Com 701H, Chaos WC Fed Com 702H, Chaos WC Fed Com 703H, Chaos WC Fed Com 704H, Chaos WC Fed Com 801H, Chaos WC Fed Com 802H, Chaos WC Fed Com 803H, Chaos WC Fed Com 804H, Chaos WC Fed Com 805H, and Chaos WC Fed Com 806H wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed interval for the Chaos WC Fed Com 804H well is less than 330' from the adjoining tracts and the Division's rules allow for the inclusion of proximity tracts within the proposed spacing unit for the wells. Also to be considered will be the cost of drilling and completing said wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells. Said area is located approximately 3 1/2 miles North of Loving, New Mexico. #5595870, Current Argus, February 15, 2023

# Farley Duvall

## Advanced Land Professional

(405-410-9921) – [farleyduvall@gmail.com](mailto:farleyduvall@gmail.com) – Houston, TX

### EXPERIENCE

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#### **Marathon Oil Company Houston, TX (2017-Present)**

##### *Advanced Land Professional - New Mexico & Oklahoma - Feb 2022 - Present*

- Manage a dynamic company-operated multi-rig drill schedule to ensure complete Land readiness in all aspects including contingencies and acceleration of rig programs. Collaborate with Engineering, Geology, Regulatory and Planning disciplines in the planning and execution of the Permian drilling program.
- Negotiate, prepare, and review Land contracts including oil and gas leases, assignments, joint operating agreements, as well as exchange, farm-out, and other miscellaneous letter agreements.
- Conceptualize and strategically generate acreage trades to protect and advance the value of future wells within the plan of development.
- Maintain knowledge of Marathon's acreage inventory and land positions in assigned areas and monitor competitor activity and land position. Manage outside operated well proposals and participate in internal reviews.

##### *Senior Land Specialist – Oklahoma, New Mexico, & North Dakota - Aug 2017 - Feb 2022*

- Managed Marathon's entire non-op portfolio for the Permian, Bakken, & Oklahoma assets from receipt of proposal to election and/or divestiture to third parties via farmout, carry, and other multiple creative deal structures.
- Drafted and negotiated agreements and contracts with outside parties including agreements, assignments, farmouts, trades, and legal settlements.
- Prepared company operated wells for drill readiness from concept to final regulatory approval and completion in an ever-changing rig schedule and budgetary environment.
- Constantly collaborated with legal, regulatory, subsurface, operations, accounting, and Land Administration groups.

#### **J.C. Land Management, Inc., Oklahoma City, OK (2014-2017)**

##### *Landman/Project Manager – North Dakota, Oklahoma, Kansas, & Texas*

- While in-house at the client, Bakken II, HBT LP, managed the pursuit of non-op acquisitions. Including but not limited to title assignment/review, solicitations to Mineral/WI owners, deal structure negotiation, and presented opportunities to management and capital partners
- Review and analyze title opinions, ownership reports, leases and other contracts in order to maintain internal records.
- Manage, assign, and review daily work assignments for all sub-contractors including title, leasing, and permitting.



## **Brannon Land Services, LLC, Edmond, OK (2010–2014)**

### *Landman – Oklahoma & Texas*

- Coordinated and managed the daily operations of multiple concurrent title, leasing, permitting, and ROW projects. Responsible for scheduling, quality control, and assessments of all sub contract landmen.
- Reviewed and analyzed title opinions, ownership reports, leases and other contracts to set up or change ownership interests and cure title requirements to establish and update ownership records for non-op and client operated wells.
- Managed election, proposal, and workover process for both non-op and company operated wells for multiple Operators and non-op funds.

## **EDUCATION**

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### **University of Central Oklahoma (2001-2005)**

- *Bachelor of Arts Degree - Criminal Justice*

### **Professional Organizations**

- AAPL, RPL Certification - 10/2020-Present
- HAPL - 09/2019-Present

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

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

CASE NO. 22348

SELF AFFIRMED DECLARATION OF GREG BURATOWSKI

Greg Buratowski hereby states and declares as follows:

1. I am over the age of 18, I am a geologist for Marathon Oil Permian LLC, and have personal knowledge of the matters stated herein.
2. I have not previously testified before the Oil Conservation Division (“Division”).
3. I graduated from University of Arkansas in 2014 with a Master of Science in Geology. I have worked as a geologist with Marathon since 2014. My resume is attached as **Exhibit C.10.**
4. My area of responsibility at Marathon includes the area of Eddy County in New Mexico.
5. I am familiar with the application filed by Marathon in this case.
6. I conducted a geological study of the area embracing Marathon’s Chaos Development Area.
7. **Exhibit C.1** is a locator map showing the approximate location of the proposed unit in relation to the Capitan Reef.
8. **Exhibit C.2** is a wellbore schematic showing Marathon’s Chaos development plan.
9. **Exhibit C.3** is structure map of the top of the Wolfcamp formation. The proposed project area is identified by a black-dashed box, and the proposed wells are identified by red lines.





The contour interval used this exhibit is 25 feet. This exhibit shows that the top of the Wolfcamp dips to the east.

10. **Exhibit C.4** is a cross section reference map that identifies three wells in the vicinity of the proposed wells, shown by a line of cross-section running from A to A'.

11. The Artemis Federal Com 1 well, API 30-015-34011, was operated by Marathon, but Marathon has since plugged the well, in 2020, consistent with OCD's requirements. The Artemis Federal Com 1 well was a gas well, which targeted the Dublin Ranch; Atoka Gas pool (76130). I have reviewed the location of the former Artemis Federal Com 1 well and have concluded that the Chaos wells Marathon is proposing will not be impacted by that existing well bore because production from this vertical well is from an interval well below the target intervals of the Chaos well, nor will the Chaos wells impact that existing well bore.

12. Marathon is the operator of the NE Loving 34 Federal 1 well, API 30-015-24718. The NE Loving 34 Federal 1 well is a gas well, and targets the Dublin Ranch; Atoka Gas pool (76130). I have reviewed the location of the NE Loving 34 Federal 1 well and have concluded that the Chaos wells Marathon is proposing will not be impacted by that existing well because production from this vertical well is from an interval well below the target intervals of the Chaos well, nor will the Chaos wells impact that existing well.

13. **Exhibit C.5** is a stratigraphic cross section hung on the top of the Wolfcamp formation. The well logs on the cross-section give a representative sample of the Upper Wolfcamp formation in the area. The producing zones are identified by green shading and red arrows. The producing zones are the Wolfcamp A ("WCA"); Wolfcamp B ("WCB"), and Wolfcamp C ("WCC").

14. **Exhibit C.6** is a Gross Interval Isochore of the top of the Wolfcamp to Wolfcamp B. Exhibit C.6 identifies the unit by a black dashed box and the four Wolfcamp A wells are identified by red lines. The Upper Wolfcamp thickens toward the east.

15. **Exhibit C.7** is a Gross Interval Isochore of the top of the Wolfcamp B to Wolfcamp C. Exhibit C.7 identifies the unit by a black dashed box and the two Wolfcamp B wells are identified by red lines. The Wolfcamp B has consistent thickness across the unit.

16. **Exhibit C.8** is a Gross Interval Isochore of the top of the Wolfcamp C to Wolfcamp D. Exhibit C.8 identifies the unit by a black dashed box and the four Wolfcamp C wells are identified by red lines. The Wolfcamp C has consistent thickness across the unit.

17. 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 section in the proposed unit will contribute more or less equally to production.

18. **Exhibit C.9** provides an overview of the stress orientation in the area based on the 2020 Snee-Zoback paper.

19. The preferred well orientation in this area is either north/south or east/west. This is because the  $S_{Hmax}$  is at approximately 45 degrees in mid-Eddy County. Marathon is proposing east/west orientation to maximize the lateral length given Marathon's acreage.

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

21. In my opinion, the granting of Marathon's application is in the interests of conservation and the prevention of waste.

*[Signature page follows]*

I attest under penalty of perjury under the laws of the State of New Mexico that the information provided herein is correct and complete to the best of my knowledge and belief.

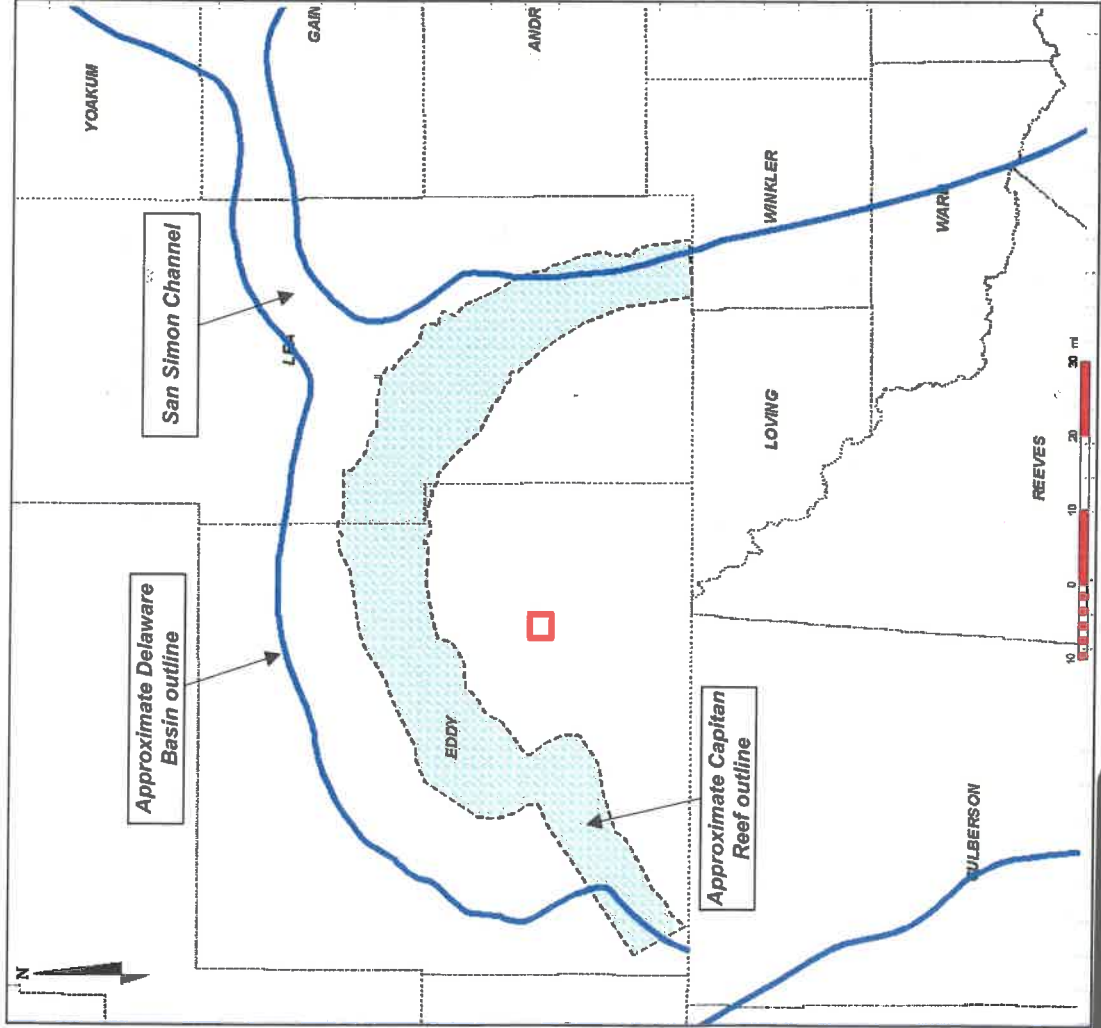
Dated: March <sup>27<sup>th</sup></sup>, 2023.



Greg Buratowski

# Chaos Federal Com Unit

## Locator Map

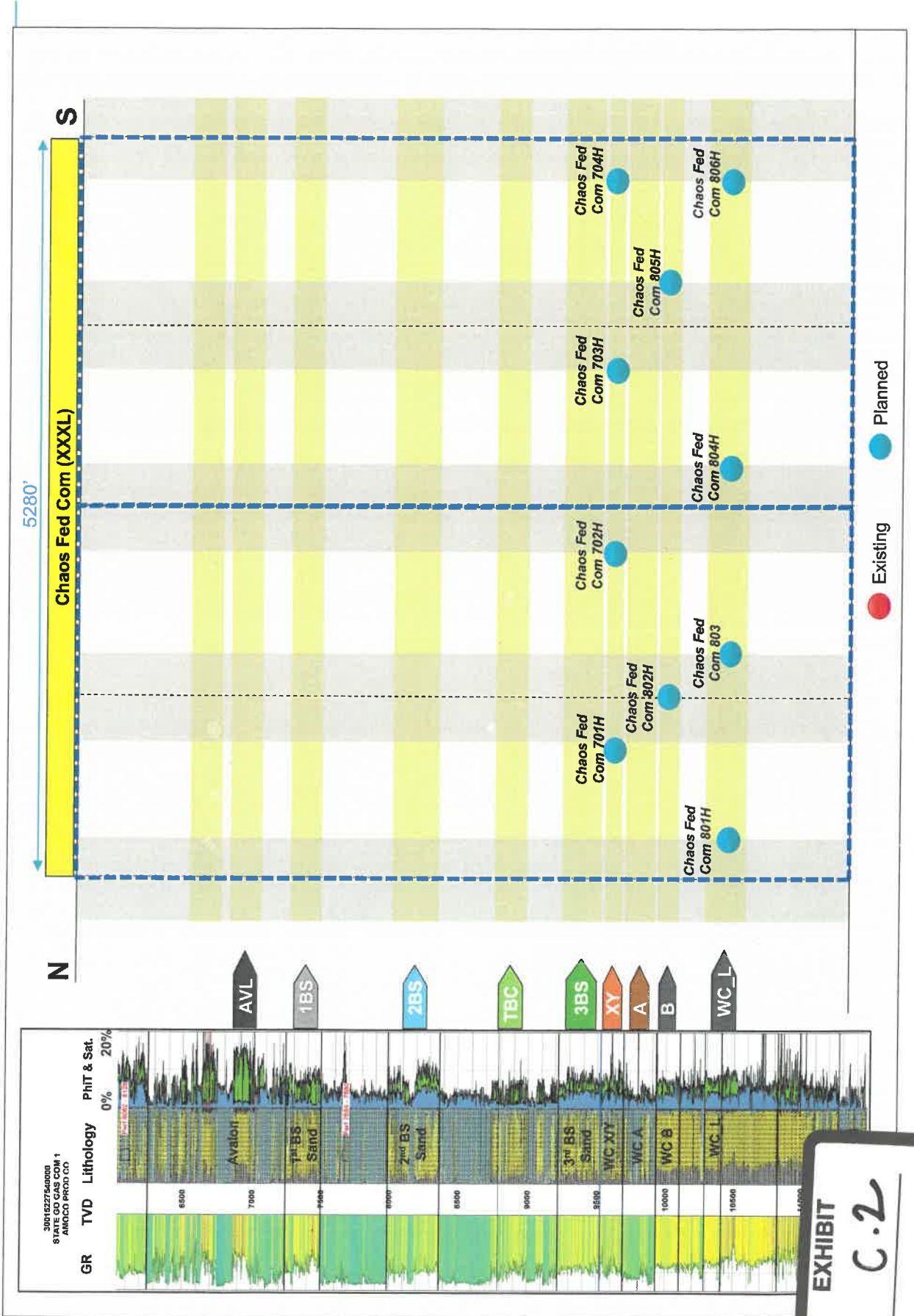


- Approximate location of proposed Chaos Federal Com well locations shown with red box
- Located outside of the Capitan Reef
- Mid-eastern Eddy County



# Chaos Fed Com Unit

## Wellbore Schematic

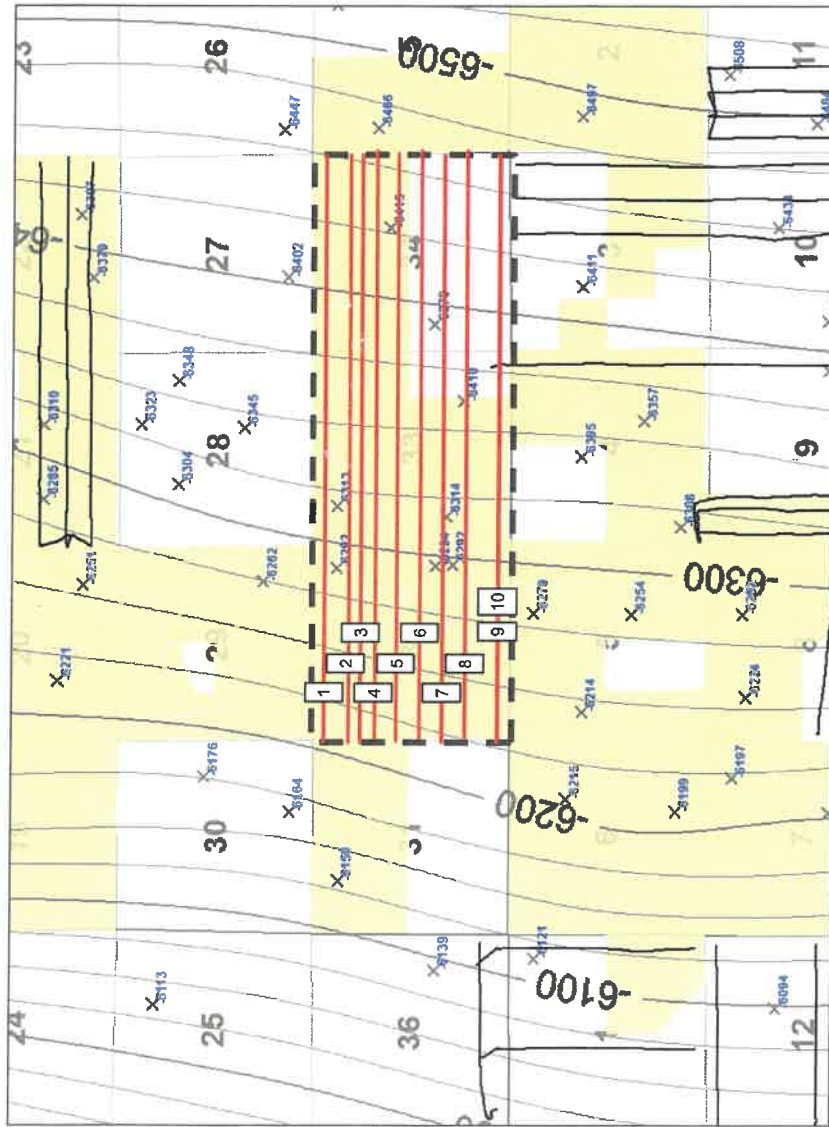


tabber

**EXHIBIT**  
C-2

# Chaos Federal Com Unit

## Structure Map – Top of Wolfcamp (TVDSS)



- 1 Chaos WC Federal Com 801H
- 2 Chaos WC Federal Com 701H
- 3 Chaos WC Federal Com 802H
- 4 Chaos WC Federal Com 803H
- 5 Chaos WC Federal Com 702H
- 6 Chaos WC Federal Com 804H
- 7 Chaos WC Federal Com 703H
- 8 Chaos WC Federal Com 805H
- 9 Chaos WC Federal Com 704H
- 10 Chaos WC Federal Com 806H

### Map Legend\*

- Proposed Wells
- Existing Wolfcamp wells
- MRO Acreage Project Area

C.I. = 25'  
1 mile

The top of the Wolfcamp dips towards the east.

**EXHIBIT**

**C-3**

tabbles



# Chaos Federal Com Unit

## Reference Map for Cross Section



C.I. = 25'

1 mile

### Map Legend\*

- Proposed Wells
  - Existing Wolfcamp wells
  - MRO Acreage Project Area
- The top of the Wolfcamp dips towards the east.

- |    |                           |
|----|---------------------------|
| 1  | Chaos WC Federal Com 801H |
| 2  | Chaos WC Federal Com 701H |
| 3  | Chaos WC Federal Com 802H |
| 4  | Chaos WC Federal Com 803H |
| 5  | Chaos WC Federal Com 702H |
| 6  | Chaos WC Federal Com 804H |
| 7  | Chaos WC Federal Com 703H |
| 8  | Chaos WC Federal Com 805H |
| 9  | Chaos WC Federal Com 704H |
| 10 | Chaos WC Federal Com 806H |



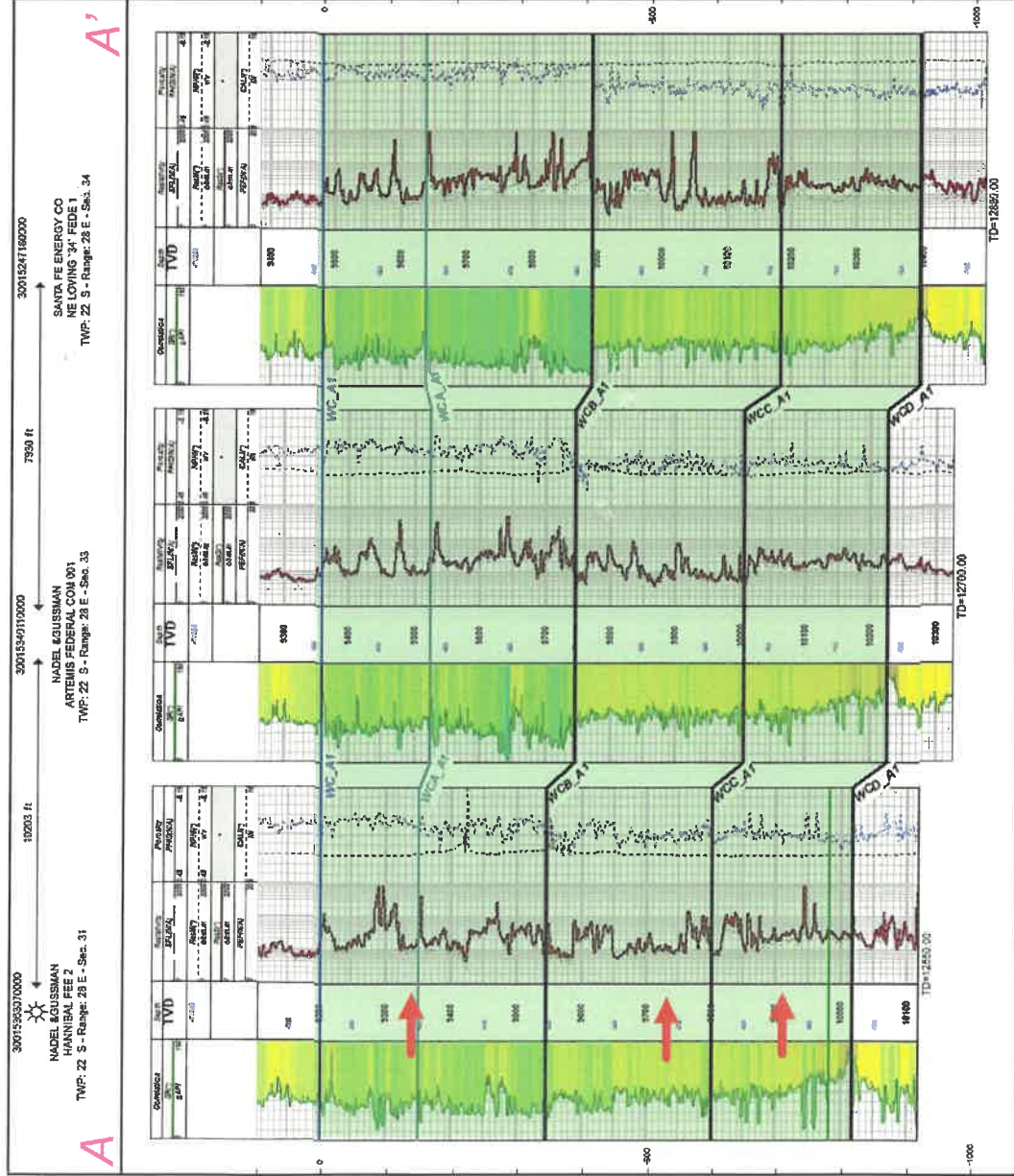
MRO Acreage Project Area





# Chaos Federal Com Unit

## Stratigraphic Cross Section (Top Wolfcamp Datum)



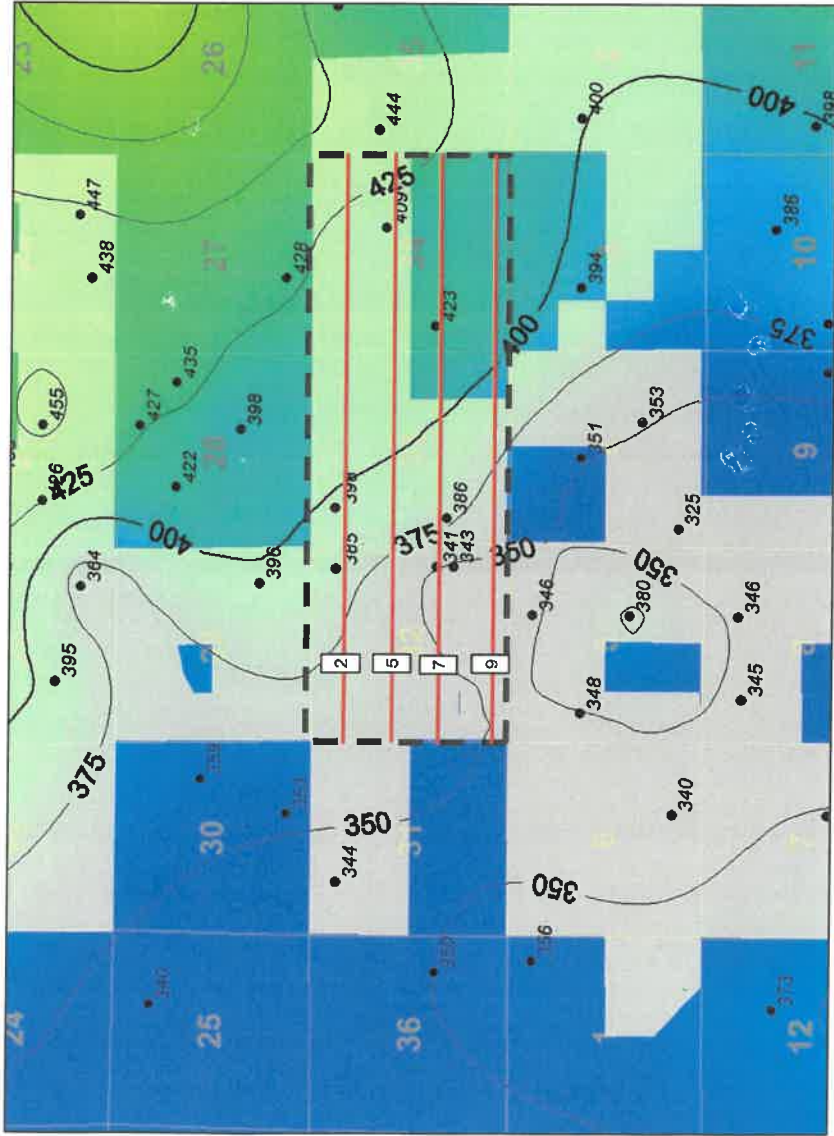
Producing Zone – Wolfcamp

EXHIBIT  
C-5  
Tables



# Chaos Federal Com Unit

## Gross Interval Isochore – Top Wolfcamp to Top Wolfcamp B



### Map Legend\*

Proposed Upper Wolfcamp Wells

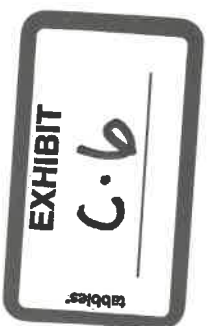
MRO Acreage Project Area

Upper Wolfcamp thickens towards the east.

1 mile

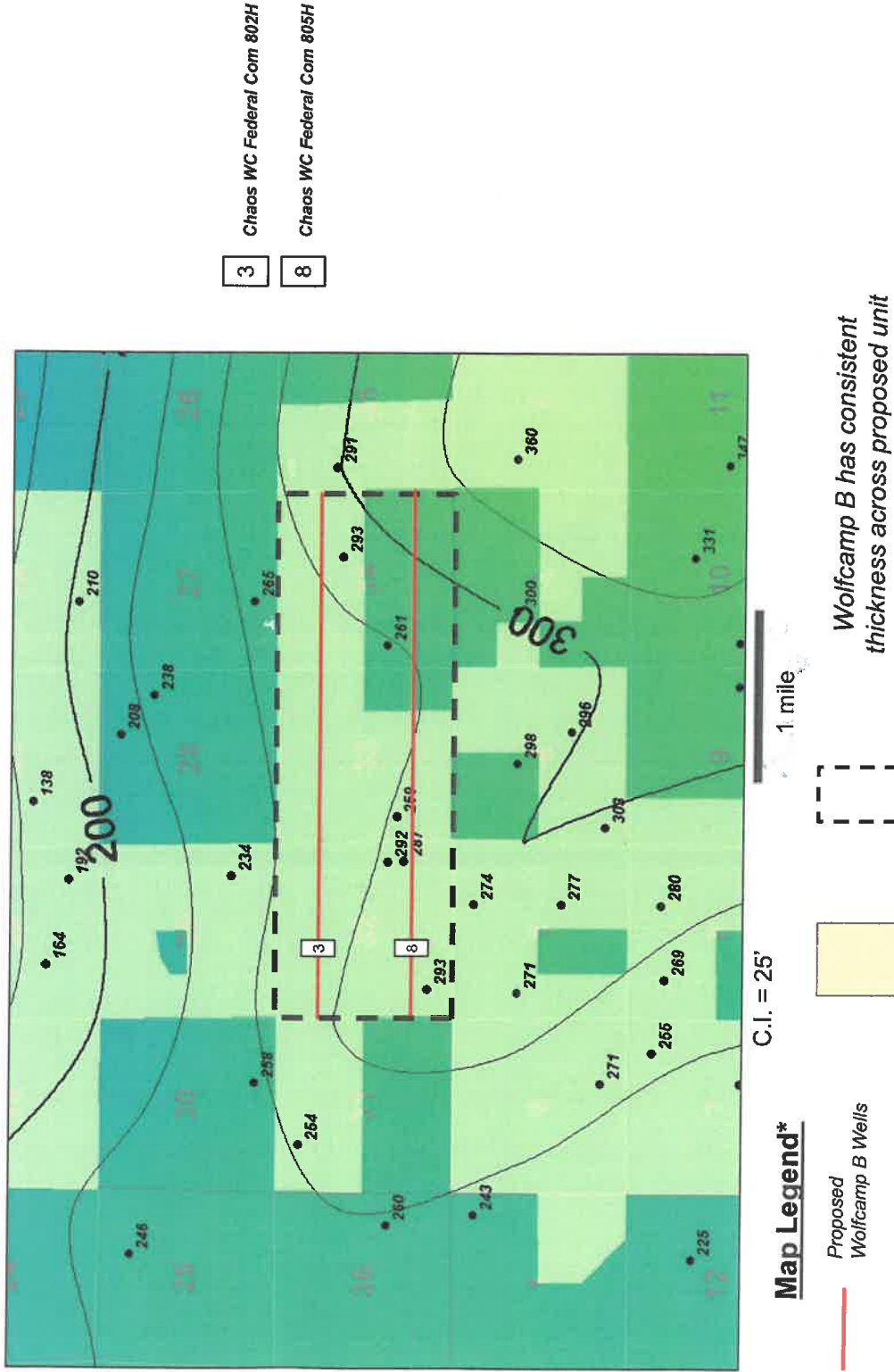
C.I. = 25'

- 2 Chaos WC Federal Com 701H
- 5 Chaos WC Federal Com 702H
- 7 Chaos WC Federal Com 703H
- 9 Chaos WC Federal Com 704H



# Chaos Federal Com Unit

## Gross Interval Isochore – Top Wolfcamp B to Top Wolfcamp C



MRO Acreage Project Area

Wolfcamp B has consistent thickness across proposed unit

Map Legend\*

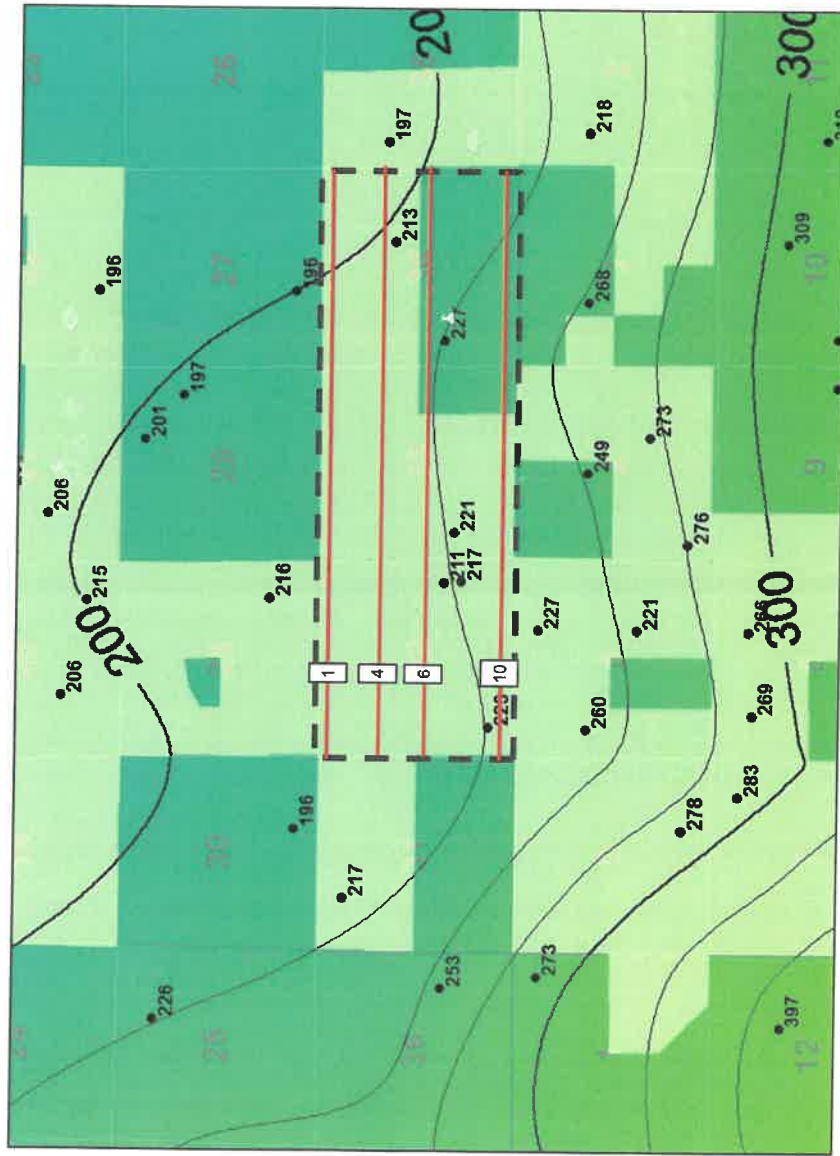
C.I. = 25'

1 mile



# Chaos Federal Com Unit

## Gross Interval Isochore – Top Wolfcamp C to Top Wolfcamp D



- 1 Chaos WC Federal Com 801H
- 4 Chaos WC Federal Com 803H
- 6 Chaos WC Federal Com 804H
- 10 Chaos WC Federal Com 806H

### Map Legend\*

Proposed Wolfcamp C Wells



MRO Acreage Project Area



Wolfcamp C has consistent thickness across proposed unit



# Chaos Federal Com Unit

## Preferred Well Orientation - SHmax

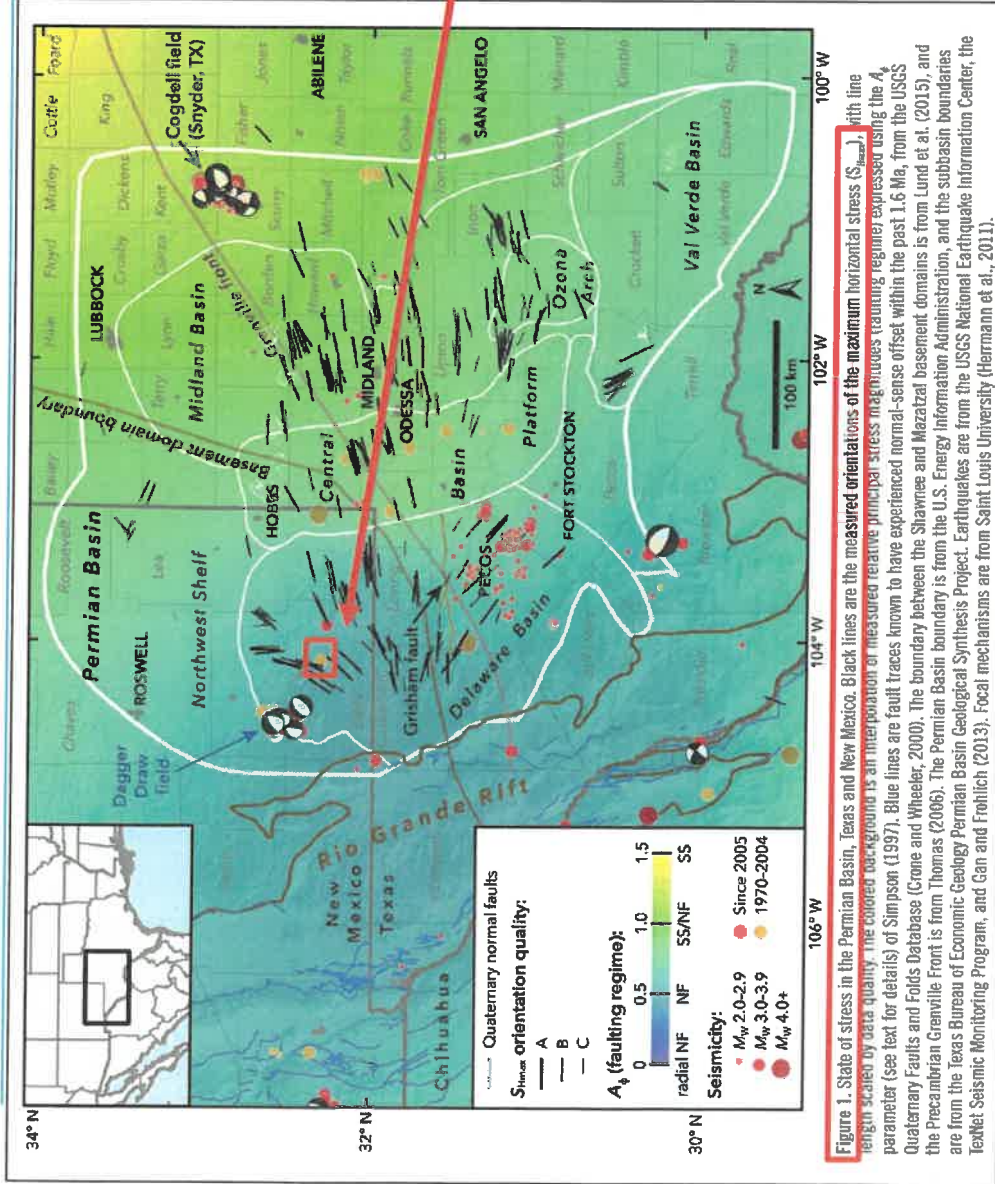


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of the maximum horizontal stress ( $S_{Hmax}$ ) with line length scaled by data quality. The colored background is an interpolation of measured relative principal stress magnitudes (assuming regular spacing) using the  $A_1$  parameter (see text for details) of Simpson (1997). Blue lines are fault traces known to have experienced normal-sense offset within the past 1.6 Ma, from the USCS Quaternary Faults and Folds Database (Crone and Wheeler, 2000). The boundary between the Shawnee and Mezatzal basement domains is from Lund et al. (2015), and the Precambrian Grenville Front is from Thomas and Wheeler, 2000). The Permian Basin boundary is from the U.S. Energy Information Administration, and the subbasin boundaries are from the Texas Bureau of Economic Geology Permian Basin Geological Synthesis Project. Earthquakes are from the USCS National Earthquake Information Center, the Texas Seismic Monitoring Program, and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Hermann et al., 2011).

Preferred well orientation is either N/S or E/W

As outlined in Snee & Zoback (2018), SHmax is at approximately 45° in this part of Eddy Count. As a result, hydraulic fractures will prefer to propagate outwards at 45° regardless if wells are oriented N/S or E/W.

Source:  
 Snee, J.L. & M.D. Zoback, 2018, State of stress in the Permian Basin, Texas and New Mexico: Implications for induced seismicity: The Leading Edge, 810-819, <https://doi.org/10.1190/le37020810.1>.

EXHIBIT  
 C-9



# GREG BURATOWSKI

gregburatowski@gmail.com

(501) 681-2605

Geoscientist with extensive experience in field development, well-planning, and geologic operations, who is also skilled in geologic mapping and exploration geology, including high-grading areas of production potential for play analysis.

## INDUSTRY EXPERIENCE

*Geologist, Permian Asset Team*, Marathon Oil Corporation August 2022 - Present

- Execute the plan of development for Marathon's Northern Delaware Development
- Evaluate well spacing and geologic quality of target intervals in Marathon's acreage to determine optimal plan of development
- Proposed well tests for target intervals in areas new to Marathon for given target intervals
- Created geologic maps to characterize petrophysical variations in order to assist in field development

*Geologist, Bakken Subsurface Development*, Marathon Oil Corporation June 2017 – August 2022

- Execute the plan of development for Marathon's Bakken acreage as sole development geologist (~\$400MM on an annual basis)
- Evaluate acquisition opportunities and have **added thousands of acres and hundreds of future wells** to MRO's portfolio
- Build Geostatic models in Petrel by integrating petrophysical and rock mechanic data used for modeling of well spacing
- Work with engineers to plan completions trials and acquisition of scientific data on wells, including pilot holes and geochemistry
- Provided quarterly competitive intelligence updates to upper management and team which drive completions trials
- Utilized IHS Harmony to perform RTA, analyzing well productivity. Evaluated completion design changes on well productivity
- Testify often (>40 times) before the NDIC and have substantial working knowledge of North Dakota regulatory requirements

*Geologist, Resource Plays Well-Planning and Geo-Operations*, Marathon Oil Corporation June 2014 - June 2017

- Planned and created geologic prognoses of wells to be drilled in Bakken, Eagle Ford/Austin Chalk and Permian assets
- Geosteered Bakken, Permian, SCOOP/STACK, and Eagle Ford/Austin Chalk wells (**Over 600,000 ft of laterals geosteered**)
- Created geologic maps to characterize petrophysical variations in order to assist in field development
- Mapped and characterized the Wilcox Formation to increase drilling efficiency
- Developed substantial knowledge of day-to-day rig operations and communicated daily with drilling engineers and rig personnel
- Gained on-site drilling operations experience through regular rig-site visits

*Geologist, North American Onshore Exploration*, Marathon Oil Corporation May 2013 - August 2013

- Created multi-variable play fairway risk segment map for Haynesville Shale Exploration
- Synthesized various geologic variables, engineering data, and production data to high-grade areas of production potential
- Defined areas for potential acquisition and divestiture through geologic risk assessment

*Participant, AAPG Imperial Barrel Award* Spring 2012

- Awarded 2<sup>nd</sup> place in Mid-Continental Region AAPG Imperial Barrel Award
- Analyzed the production viability of the Danish North Sea and presented a risk-benefit analysis of plays to judges

## EDUCATION

**Master of Science, Geology**, May 2014 University of Arkansas, Fayetteville, AR  
 Thesis: *The Application of Detrital Zircon Geochronology to Determine the Sedimentary Provenance of the Middle Bloyd Sandstone, Arkoma Shelf, Northern Arkansas*

**Bachelor of Science, Geology**, June 2012 University of Arkansas, Fayetteville, AR

## SOFTWARE PROFICIENCIES

- GeoGraphix
- Petrel
- BHL Boresight (geosteering)
- Rogii Inc. StarSteer (geosteering)
- Spotfire
- IHS Harmony (RTA)
- Decision Space Geophysics
- GIS - Arc Map/Arc Pro
- Priemere PowerTools Plug ins (Arc)
- WellView
- DrillingInfo (Enervus)

## AFFILIATIONS

American Association of Petroleum Geology, 2010-Present  
 Houston Geological Society, 2013-Present

