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

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

CASE NO. 23755

NOTICE OF FILING AMENDED EXHIBIT PACKET

On behalf of Marathon Oil Permian LLC notice is hereby provided of the filing of the amended exhibit, attached hereto. As requested by the Division at the November 2, 2023 hearing, Marathon has updated the exhibit packet to include an amended compulsory pooling checklist to include material inadvertently cut off during the scanning process and to correct the pool type from oil to gas, as well as to ensure that the list of pooled parties is included in the uploaded exhibit packet.

Respectfully submitted,

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

Deana M. Bennett

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CERTIFICATE OF SERVICE

I hereby certify that on November 2, 2023, I served a copy of the foregoing document to the following counsel of record via Electronic Mail to:

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Adam G. Rankin
Julia Broggi
Paula M. Vance
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Santa Fe, New Mexico 87504
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agrankin@hollandhart.com
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Attorneys for Fasken Oil & Ranch LTD.

By: Nema M. Bennett

Amended Exhibits

Before the Oil Conservation Division Examiner Hearing October 5, 2023

Case No. 23755
Decimus Fed Com 801H
Decimus Fed Com 701H
Decimus Fed Com 802H
Decimus Fed Com 702H
Decimus Fed Com 803H
Decimus Fed Com 703H
Decimus Fed Com 804H
Decimus Fed Com 704H



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

IN THE MATTER OF THE APPLICATION OF

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

CASE NO. 23755

TABLE OF CONTENTS FOR AMENDED EXHIBITS¹

Tab A: Compulsory Pooling Checklist

Tab B: Self Affirmed Declaration of Ryan Gyllenband, Land Professional

- Exhibit B.1: Application
- Exhibit B.2: C-102s
- Exhibit B.3: Lease Tract Maps/Parties to Be Pooled
- Exhibit B.4: Summary of Contacts
- Exhibit B.5 : Sample Proposal Letter
- Exhibit B.6 : AFEs
- Exhibit B.7: Notice Affidavit

Tab C: Self Affirmed Declaration of Greg Buratowski, Geologist

- Exhibit C.1: Locator Map
- Exhibit C.2: WellBore Schematic
- Exhibit C.3: Top of the Wolfcamp Structure Map
- Exhibit C.4: Wolfcamp Cross Section Reference Map
- Exhibit C.5: Wolfcamp Stratigraphic Cross Section
- Exhibit C.6: Top Wolfcamp to Top Wolfcamp B Isopach Map
- Exhibit C.7: Top Wolfcamp C Structure Map
- Exhibit C.8: Wolfcamp Cross Section Reference Map
- Exhibit C.9: Wolfcamp Stratigraphic Cross Section
- Exhibit C.10: Top Wolfcamp C to Top Wolfcamp D Isopach Map
- Exhibit C.11: Regional Stress Orientation Justification

¹ Amended as follows: Tab A rescanned to include previously cut off material and to change pool to Gas pool; Exhibit B.3 amended to include list of pooled parties.

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS										
Case: 23755	APPLICANT'S RESPONSE									
Date	November 2, 2023									
Applicant	Marathon Oil Permian LLC									
Designated Operator & OGRID (affiliation if applicable)	Marathon Oil Permian LLC OGRID No. 372098									
Applicant's Counsel:	Modrall, Sperling, Roehl, Harris, & Sisk, P.A.									
Case Title:	Application of Marathon Oil Permian LLC for Compulsory Pooling, Eddy County, New Mexico.									
Entries of Appearance/Intervenors:	Fasken Oil & Ranch LTD.									
Well Family	Decimus									
Formation/Pool										
Formation Name(s) or Vertical Extent:	Wolfcamp									
Primary Product (Oil or Gas):	Gas									
Pooling this vertical extent:	Wolfcamp									
Pool Name and Pool Code:	Purple Sage; Wolfcamp (Gas) Pool (Code 98220)									
Well Location Setback Rules:	State-Wide Rules Apply									
Spacing Unit										
Type (Horizontal/Vertical)	Horizontal									
Size (Acres)	Approx. 1276-acres									
Building Blocks:	320-Acres									
Orientation:										
Description: TRS/County	North/South									
Description: Tray county	S/2 of Sections 5 and 6, and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, N.M.P.M., Eddy County, New Mexico.									
Standard Horizontal Well Spacing Unit (Y/N), If No, describe and approval of non-standard unit requested in this application?	Yes.									
Other Situations										
Depth Severance: Y/N. If yes, description	N/A									
Proximity Tracts: If yes, description	Yes.									
Proximity Defining Well: if yes, description	The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining racts, thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit.									
Applicant's Ownership in Each Tract	See Exhibit B.3									
Well(s)										
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	Add wells as needed									
Well #2: Decimus Fed Com 701H	SHL: 1670' FSL & 302' FWL, Section 6, T23S, R28E BHL: 1650' FSL & 330' FEL, Section 5, T23S, R28E Completion Target: Purple Sage Wolfcamp (Approx. 9,330 TVD)									

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) **Ownership Determination** Exhibit B.3 Land Ownership Schematic of the Spacing Unit Exhibit B.3 Tract List (including lease numbers and owners)

N/A

N/A

Exhibit B.3

Exhibit B.3

Released to Imaging: 11/2/2023 1:43:56 PM

Pooled Parties (including ownership type)

Unlocatable Parties to be Pooled

requirements.

below)

If approval of Non-Standard Spacing Unit is requested, Tract List (including lease numbers and owners) of Tracts subject to notice

Ownership Depth Severance (including percentage above &

Received by OCD: 11/2/2023 1:00:40 PM	Page / 0
Joinder	
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
Geology	
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.11
Target Formation	Exhibit C.3 to C.6 & Exhibit C.7 to C.10
HSU Cross Section	Exhibit C.5 & Exhibit C.9
Depth Severance Discussion	N/A
Forms, Figures and Tables	
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.2
Structure Contour Map - Subsea Depth	Exhibit C.3 & Exhibit C.7
Cross Section Location Map (including wells)	Exhibit C.4 & Exhibit C.8
Cross Section (including Landing Zone)	Exhibit C.5 & Exhibit C.9
Additional Information	
Special Provisions/Stipulations	N/A
CERTIFICATION: I hereby certify that the information prov	ided in this checklist is complete and accurate.
Printed Name (Attorney or Party Representative):	Deana M. Bennett
Signed Name (Attorney or Party Representative):	/s/ Deana M. Bennett
Date:	11/2/2023

Received by OCD: 11/2/2023 1:00:40 PM

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. 23755

SELF AFFIRMED DECLARATION OF RYAN GYLLENBAND

Ryan Gyllenband hereby states and declares as follows:

- 1. I am over the age of 18, I am a landman for Marathon Oil Permian LLC ("Marathon") and have personal knowledge of the matters stated herein.
- 2. I have previously testified before the Oil Conservation Division ("Division") and my credentials as an expert petroleum landman were accepted as a matter of record.
 - 3. My area of responsibility at Marathon includes the area Eddy County in New Mexico.
- 4. I am familiar with the application filed by Marathon in this case, which is attached as **Exhibit B.1.**
 - 5. I am familiar with the status of the lands that are subject to this application.
- 6. I submit the following information pursuant to NMAC 19.15.4.12.A(1) in support of the above referenced application.
- 7. 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.
- 8. 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.
- 9. In this case, Marathon seeks an order from the Division pooling all uncommitted mineral interests within a standard 1280-acre, more or less, Wolfcamp horizontal spacing unit

underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.

- 10. This spacing unit will be dedicated to the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H wells, to be horizontally drilled.
 - 11. Attached as **Exhibit B.2** are the proposed C-102s for the wells.
- 12. The C-102s identify the proposed surface hole locations and the bottom hole locations, and the first take points. The C-102s also identify the pool and pool code.
- 13. 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.
 - 14. The producing areas for the wells is expected to be orthodox.
- 15. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be 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.
 - 16. There are no depth severances within the proposed spacing unit.
- 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 the working interest owners 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.

- Exhibit B.4 is a summary of my contacts with the working interest owners and the 20. unleased mineral interest owners.
- Exhibit B.5 is a sample of the well proposal letter that was sent to all working interest 21. owners and unleased mineral interest owners. The proposal letter identifies the proposed surface hole location, and proposed first and last take points, and approximate TVD/MD for the wells.
- Exhibit B.6 contains the Authorization for Expenditure for the proposed wells. The 22. 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.
- Marathon requests overhead and administrative rates of \$8,000.00/month for drilling 23. a well and \$800.00/month for a producing well. These rates are fair, and comparable to the rates charged by other operators for wells of this type in this area of Southeastern, New Mexico. Marathon requests that these rates be adjusted periodically as provided in the COPAS Accounting Procedure.
- Marathon requests the maximum cost plus 200% risk charge be assessed against non-24. consenting working interest owners.
 - 25. Marathon requests that it be designated operator of the wells.
 - The parties Marathon is seeking to pool were notified of this hearing. 26.
- Marathon seeks to pool overriding royalty interest owners, and they were also 27. provided notice of this hearing.
- Exhibit B.7 is an affidavit of notice prepared by counsel for Marathon that shows the 28. parties who were notified of this hearing, the status of whether they received notice, and an affidavit of publication from the Carlsbad Current Argus newspaper, showing that notice of this hearing was published on August 17, 2023.
- The attachments to this declaration were prepared by me, or compiled from company 29. business records, or were prepared at my direction.

30. 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 this 2nd day of October, 2023.

Ryan Øyllenband

9

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. **23755**

APPLICATION

Marathon Oil Permian LLC ("Marathon"), OGRID Number 372098, through its undersigned attorneys, hereby submits this application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. In support of this application, Marathon states as follows:

- 1. Marathon is an interest owner in the subject lands and has a right to drill a well thereon.
- 2. Marathon seeks to dedicate the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 1280-acre, more or less, standard spacing unit.
- 3. Marathon plans to drill the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H 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 intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit under Rule 19.15.16.15(B)(1)(b) NMAC.
- 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 September 7, 2023 and after notice and hearing as required by law, the Division enter its order:

- A. Pooling all uncommitted mineral interests in the Wolfcamp formation underlying a horizontal spacing unit within the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico;
- B. Designating Marathon as operator of this unit and the wells to be drilled thereon;
- C. Authorizing Marathon to recover its costs of drilling, equipping and completing the wells;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;
- E. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells.

Respectfully submitted,

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

By: Dema 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. 23755: 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 standard 1280-acre, more or less, Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit. 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 3.5 miles northwest of Loving, NM.

OCD Examiner Hearing 11-2-23

No. 23755

Page 17 of 92

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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

Phone: (505) 334-6178 Fax: (505) 334-6170 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

1 API Number

1000 Rio Brazos Road, Aztec, NM 87410

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

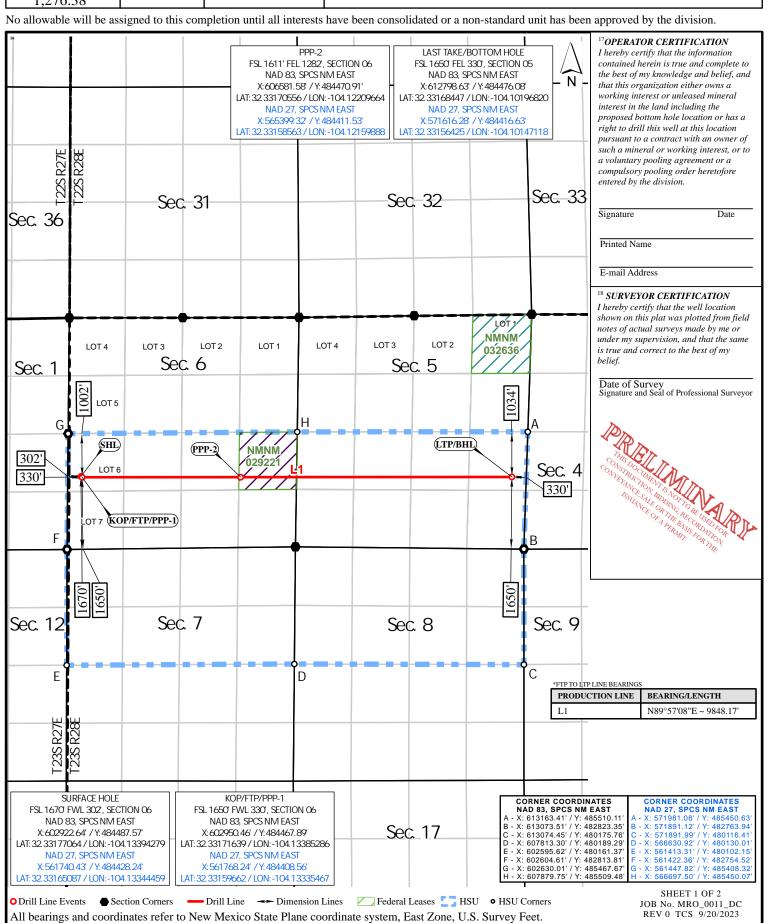
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District III

Phone: (575) 393-6161 Fax: (575) 393-0720

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 A1	PI Number			² Pool Code 9822(PURPLE SAGE; WOLFCAMP (GAS)					
⁴ Property Coo	le	DECIMUS FED COM							⁶ Well Number 701H		
⁷ OGRID No. 372098		*Operator Name *Elevation MARATHON OIL PERMIAN LLC 3044'									
	¹⁰ Surface Location										
UL or lot no. L 6	Section 6	Township 23S	Range 28E	Lot Idn	Feet from the $1670'$	North/South line SOUTH	Feet from the 302'	East/West line WEST	County EDDY		
	¹¹ Bottom Hole Location If Different From Surface										
UL or lot no. I	Section 5	Township 23S	Range 28E	Lot Idn	Feet from the 1650'	North/South line SOUTH	Feet from the 330'	East/West line EAST	EDDY		
1,276.38	¹³ Jo	oint or Infill 14 Consolidation Code			¹⁵ Order No.						



OCD Examiner Hearing 11-2-23

No. 23755
Page 18 of 92
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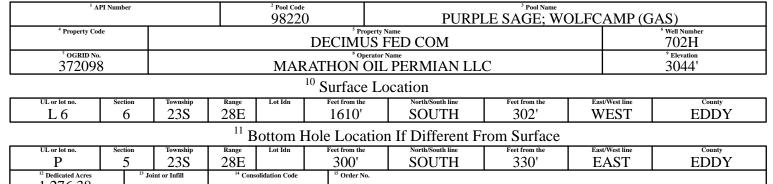
Phone: (575) 393-6161 Fax: (575) 393-0720 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

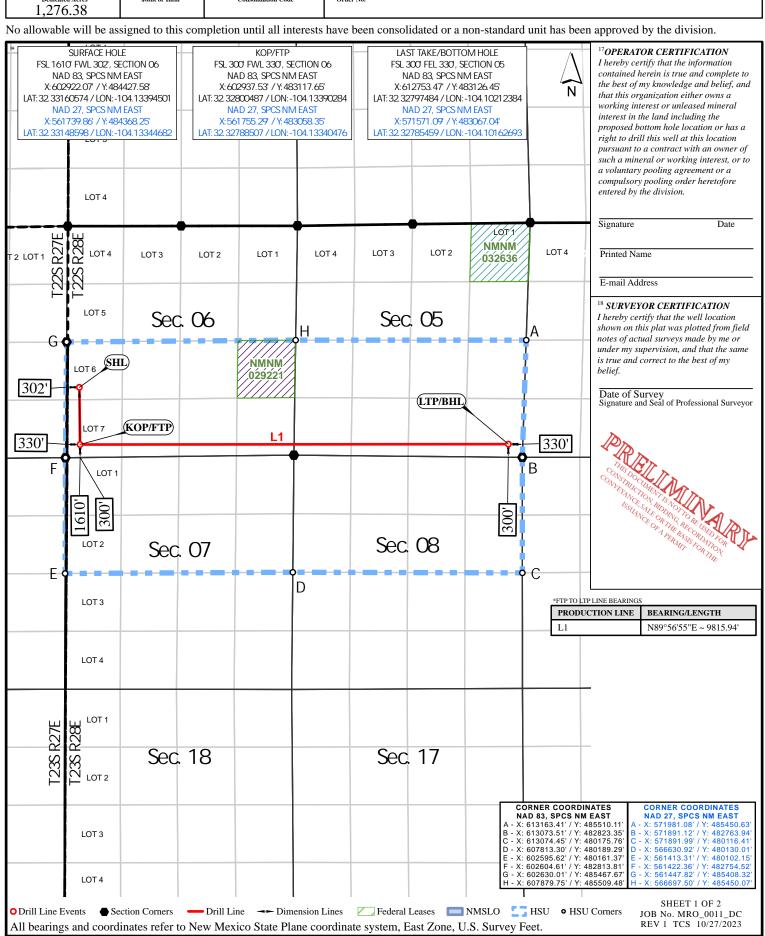
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WELL LOCATION AND ACREAGE DEDICATION PLAT





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No. 23755

Page 19 of 92

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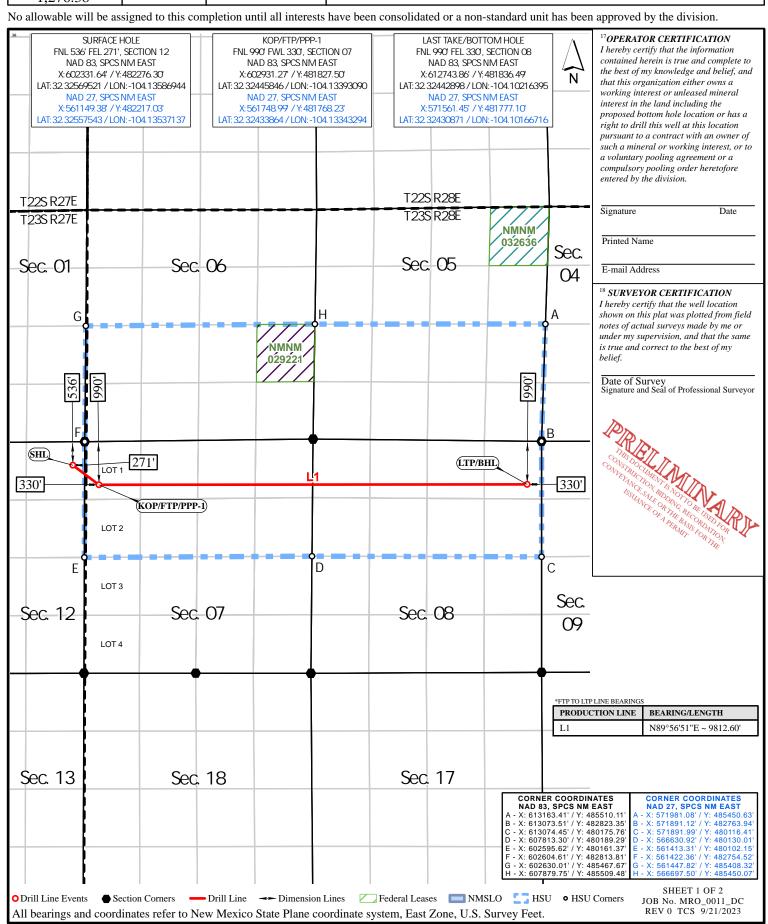
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WELL LOCATION AND ACREAGE DEDICATION PLAT

WEEL EGG/MONTHAD REKENGE DEDICATION LEXT									
¹ API Number	² Pool Code 98220	² Pool Code 98220 PURPLE SAGE; WOLFC							
⁴ Property Code	5	* Property Name DECIMUS FED COM							
⁷ OGRID No. 372098		* Operator Name MARATHON OIL PERMIAN LLC							
¹⁰ Surface Location									

536' **NORTH** 271'

	¹¹ Bottom Hole Location If Different From Surface										
Ü	L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
	A	8	23S	28E		990'	NORTH	330'	EAST	EDDY	
	Dedicated Acres	13 J	oint or Infill	¹⁴ Cons	olidation Code	15 Order No.					



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No. 23755

Page 20 of 92

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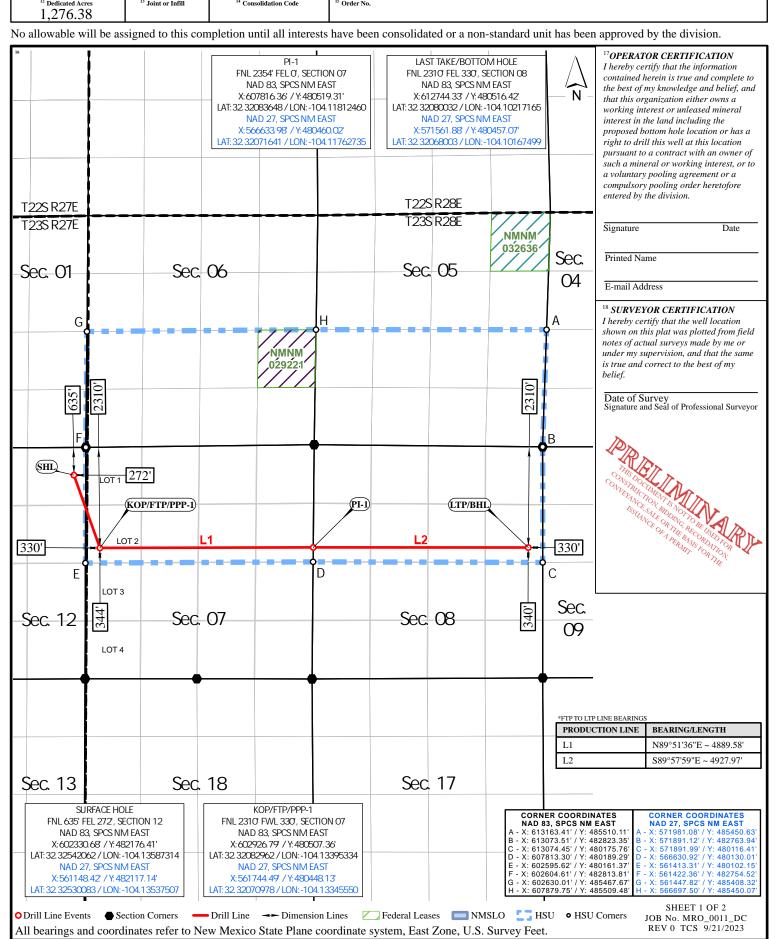
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811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Santa Fe, NM 87505 Phone: (505) 334-6178 Fax: (505) 334-6170

WELL LOCATION AND ACREAGE DEDICATION PLAT								
¹ API Number	² Pool Code 98220							
⁴ Property Code	DECIMU	⁶ Well Number 704H						
⁷ OGRID No. 372098	MARATHON MARATHON	⁹ Elevation 3044'						
10 G G T								

Surface Location

UL or lot no.	Section 12	Township 23S	Range 27E	Lot Idn	Feet from the 635'	North/South line NORTH	Feet from the 272'	East/West line EAST	County EDDY	
	¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	
Н	8	23S	28E		2310'	NORTH	330'	EAST	EDDY	



OCD Examiner Hearing 11-2-23

No. 23755

Page 21 of 92

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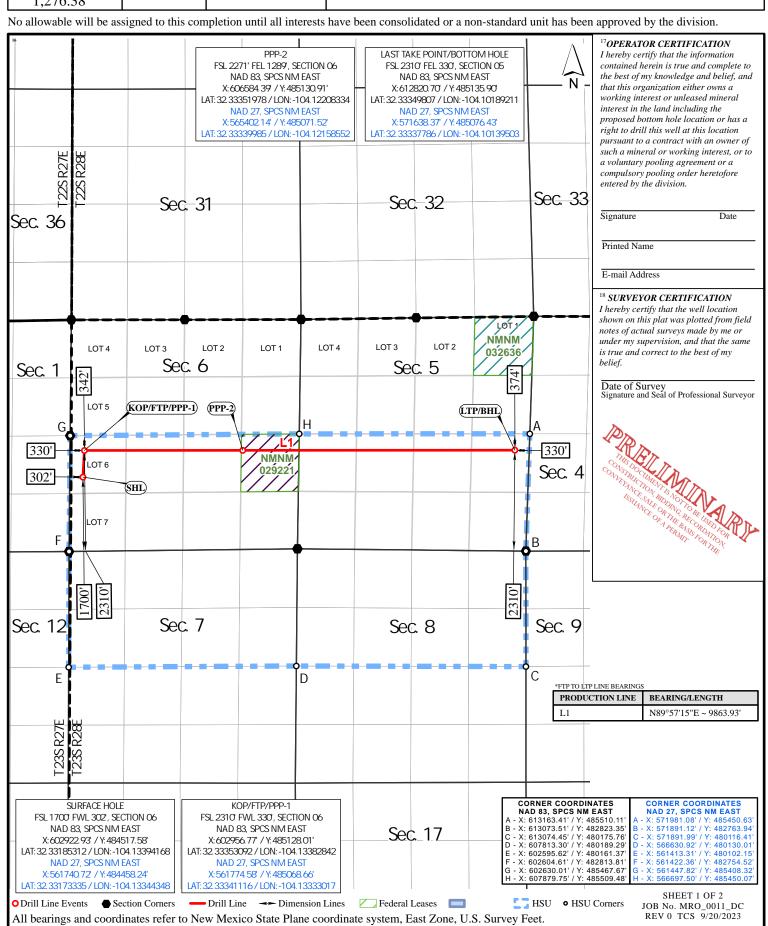
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Phone: (575) 393-6161 Fax: (575) 393-0720

WELL LOCATION AND ACREAGE DEDICATION PLAT

WEEL ENGINEERING PERIOD											
¹ A	PI Number			² Pool Code 98220		PURPL	LFCAMP (G	MP (GAS)			
⁴ Property Co	de				DECIMUS F			⁶ Well Number 801H			
372098		* Operator Name MARATHON OIL PERMIAN LLC						⁹ Elevation 3044'			
	¹⁰ Surface Location										
UL or lot no. L6	Section 6	Township 23S						East/West line WEST	EDDY		

11 Bottom Hole Location If Different From Surface 23S 2310' **SOUTH** 330' **EAST EDDY** 28E 1.276.38



23S

28Ē

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WELL LOCATION AND ACREAGE DEDICATION PLAT

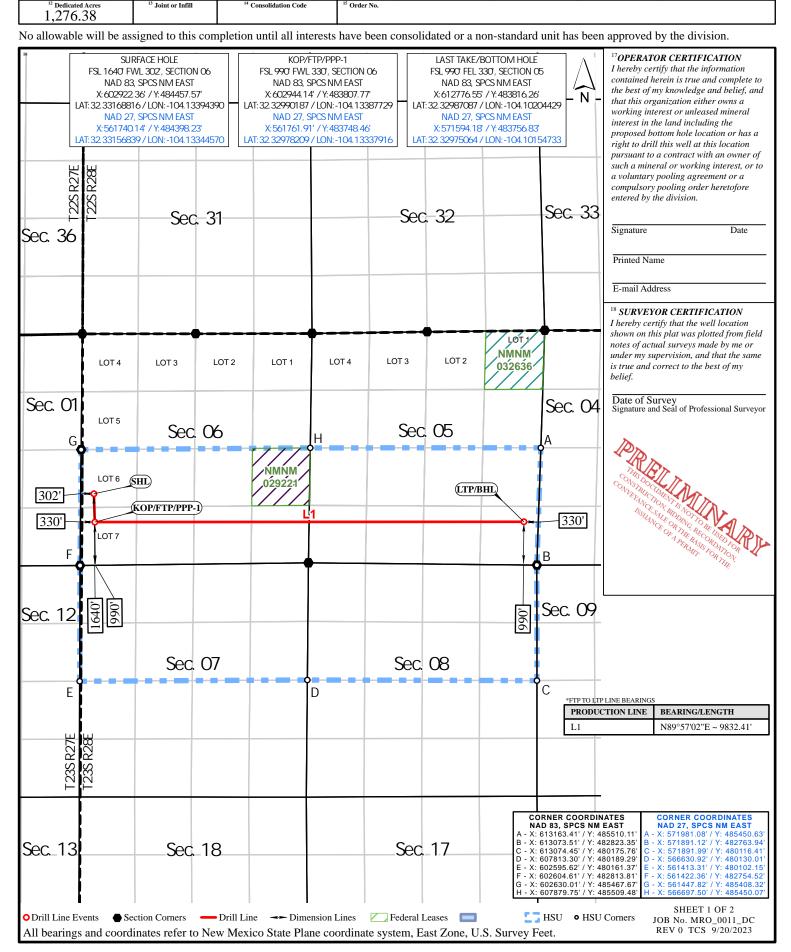
¹ API Number ² Pool Code 98220 PURPLE SAGE; WOLFCA							AMP (G	AS)				
⁴ Property Coo	de		DECIMUS FED COM							6 Well Number 802H		
⁷ OGRID No 372098			* Operator Name MARATHON OIL PERMIAN LLC							⁹ Elevation 3044'		
	¹⁰ Surface Location											
UL or lot no. L6	Section 6	Township 23S	28E	Lot Idn	Feet from the 1640'	North/South line SOUTH	Feet from the 302'					
	¹¹ Bottom Hole Location If Different From Surface											
III or let no	Section	Township	nchin Danga Lat Idn Foot from the North/South line Foot from the Foot/West line County					Country				

SOUTH

990'

330'

EAST



OCD Examiner Hearing 11-2-23

No. 23755

Page 23 of 92

Form C-102 Registed August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

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

Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

1 API Number

1000 Rio Brazos Road, Aztec, NM 87410

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

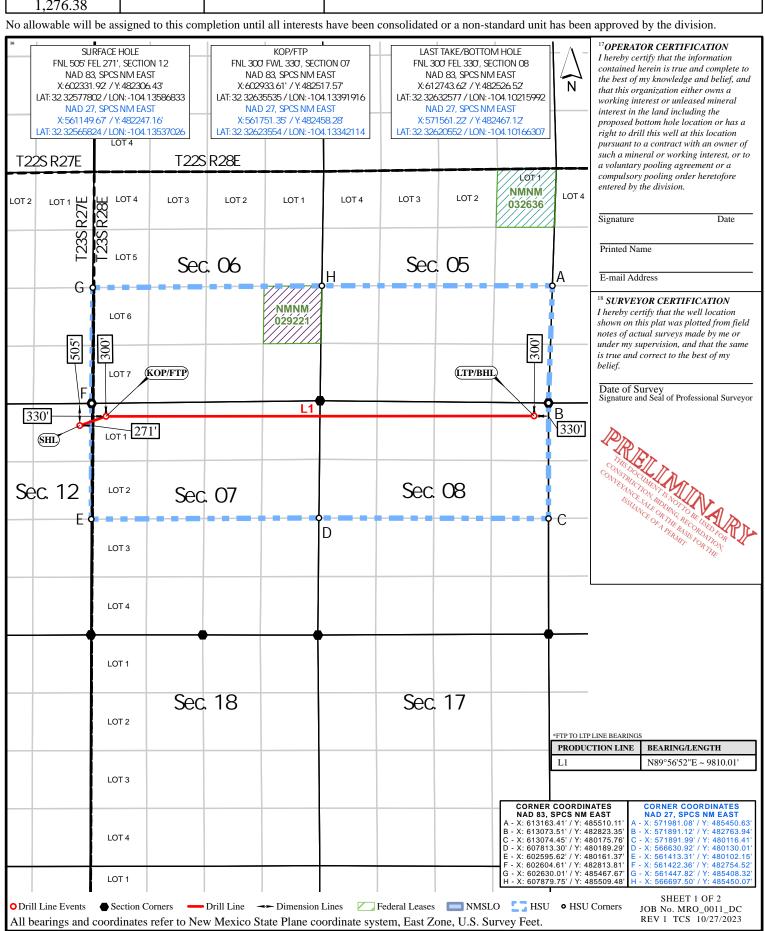
811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III

Phone: (575) 393-6161 Fax: (575) 393-0720

WELL LOCATION AND ACREAGE DEDICATION PLAT

	- I Trumber			98220)	PURPLE SAGE; WOLFCAMP (GAS)					
⁴ Property Coo	le				⁶ Well Number 803H						
⁷ ogrid № 372098			s Operator Name MARATHON OIL PERMIAN LLC						° Elevation 3044'		
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
A	12	23S	27E		505'	NORTH	271'	EAST	EDDY		
11 Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
A	8	23S	28E		300'	NORTH	330'	EAST	EDDY		
1.276.38	¹³ Jo	int or Infill 14 Consolidation Code		15 Order No.							



OCD Examiner Hearing 11-2-23

No. 23755

Form C-102 Revised August 1, 2011

Submit offe copy to appropriate

District Office

☐ AMENDED REPORT

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

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

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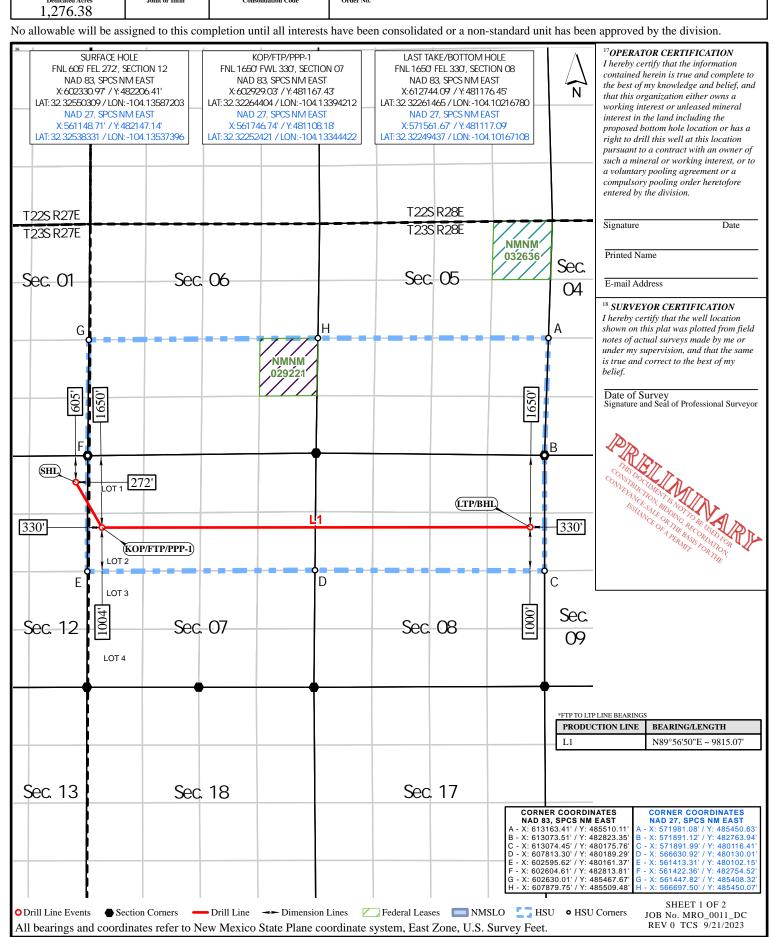
811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III

Phone: (575) 393-6161 Fax: (575) 393-0720

WELL LOCATION AND ACREAGE DEDICATION PLAT

				98220)	PURPLE SAGE; WOLFCAMP (GAS)					
⁴ Property Cod	de				DECIMUS I				⁶ Well Number 804H		
⁷ OGRID No 372098					⁹ Elevation 3044'						
	¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
A	12	23S	27E		605'	NORTH	272'	EAST	EDDY		
	¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County		
H	8	23S	28E		1650'	NORTH	330'	EAST	EDDY		



21

Decimus Fed Com 801H, 701H, 802H, 702H, 803H, 703H, 804H, and 704H S/2 of Section 5 & 6, and N/2 of Section 7 & 8 T23S-R28E: 1,276.60 acres

Tr. 8 (Except Tr. 10) Tr. 4 Tr. 1 Tr. 2 Tr. 3 Tr. 10 (1.01 ac. in E2SW) NESW Lot 6 NESW NWSW NWSE NESE 40.00 39.06 40.00 40.00 40.00 40.00 40.00 Section Tr. 6 Tr. 7 Lot 7 SESW SESE swsw SESW SWSE SESE 40.00 40.00 40.00 39.08 40.00 40.00 40.00 40.00 Tr.3(a) Tr. 11 Tr. 14 r. 16 r. 15 NFNW NWNF NENE NWNW NWNF NENE Lot 1 39.11 40.00 40.00 40.00 40.00 Tr. 17 SENW SWNE SENE Lot 2 SENW SWNE SENE SWNW 40.00 40.00 40.00 40.00 40.00 40.00 40.00

- Tract 1: Fee (80.00 acres)Tract 2: Fee (80.00 acres)
 - Tract 2: Fee (80.00 acres)
- Tract 3: Fee (160.00 acres)
- Tract 4: Federal (40.00 acres)
- Tract 5: Fee (80.00 acres)
- Tract 6: Fee (10.00 acres)
 Tract 7: Fee (30.00 acres)
- Tract 8: Fee (142.4825 acres)
- Tract 9: Fee (14.6475 acres)

- Tract 10: Fee (1.01 acres)
- Tract 11: Fee (135.10 acres)
- Tract 12: Fee (15.48 acres)
- Tract 13: Fee (7.88 acres)
- Tract 14: Fee (160.00 acres)
- Tract 15: Fee (80.00 acres)
- Tract 16: Fee (120.00 acres)
- Tract 17: Fee (120.00 acres)



22

Exhibit "B.3" Summary of Interests Decimus Fed Com 801H, 701H, 802H, 702H, 803H, 703H, 804H, and 704H

S/2 of Section 5 & 6, and N/2 of Section 7 & 8 T23S-R28E: 1,276.60 acres

Committed Working Interest:	<u>75.194012%</u>
Marathon Oil Permian LLC	67.963119%
Fasken Land and Minerals Ltd.	7.230893%
Uncommitted Working Interest:	<u>24.448006%</u>
Oxy USA WTP Limited Partnership	18.376547%
Blakemore Family Royalty Partnership	3.133323%
Roy G. Barton, Jr. and Wife, Clauda Barton, as Joint Tenants	0.385301%
Roy G. Barton, Sr. & Opal Barton Revocable Trust, Roy G. Barton Jr., Trustee	0.385301%
Valence Operating Company	0.319812%
Stevens Oil & Gas, LLC	0.296112%
Thomas M. Beall	0.239864%
PrimeEnergy Asset and Income Fund AA-3 Attn: Ron Summers	0.179898%
PrimeEnergy Asset and Income Fund AA-4 Attn: Ron Summers	0.179898%
Ward N. Atkins, Jr.	0.159915%
David M. Stevens	0.148055%
Southwest Petroleum Company, L.P.	0.143817%
Richardson Oil Company, LLC	0.103006%
Michael F. Murry	0.095878%
Novo Minerals, LP	0.077060%
Lucinda Loveless	0.071959%
Highland (Texas) Energy Company	0.071440%
Wells Fargo Bank, N.A., Trustee of the Lisa McFarland Trust	0.035980%
Wells Fargo Bank, N.A., Trustee of the Patricia Del Valle Trust	0.035980%
Bruce A. Stubbs	0.008862%
Unleased Mineral Owners:	0.357982%
The New Mexico Department of Transportation	0.154316%
Don L. Parker	0.101833%
Fort Worth Mineral Company, LLC	0.101833%
ORRI Owners:	
Estate of Jeanette Hughen	
Norma J. Chanley	
Dick A. Blenden	
Jeffrey B. Diamond	
Jeffrey B. Diamond and Envy Diamond	



ORRI Owners Continued on Following Page

Marifred Handley

Exhibit "B.3" Summary of Interests

Decimus Fed Com 801H, 701H, 802H, 702H, 803H, 703H, 804H, and 704H
S/2 of Section 5 & 6, and N/2 of Section 7 & 8 T23S-R28E: 1,276.60 acres

ORRI Owners (Continued):

- Harle, Inc.
- Jana Zane Hayes
- Gregory Raymond Hayes
- Sandy Blenden
- Phil Blenden
- Robin Shelton
- Robert Levenson and Carol Levenson
- Kathleen Phillips
- Tommy Phipps and Werta Jean Phipps, Trustees of The Phipps Living Trust
- Western Commerce Bank for the Account of Forrest Miller
- Forrest Miller
- · Read & Stevens, Inc.
- CBR Oil Properties LLC
- Hillman Royalties, LP
- · Stryker Energy, LLC
- Zunis Energy, LLC
- Susannah D. Adelson, Trustee of the James Adelson & Family 2015 Trusts
- Yuma Exploration & Production Company, Inc.
- Viper Energy Partners LLC
- · MCM Permian, LLC



Parties to Be Pooled—Decimus

Working Interest Owners

Oxy USA WTP Limited Partnership

Blakemore Family Royalty Partnership

Roy G. Barton, Jr. and Wife, Clauda Barton, as Joint Tenants

Roy G. Barton, Sr. & Opal Barton Revocable Trust, Roy G. Barton Jr., Trustee

Valence Operating Company

Stevens Oil & Gas, LLC

Thomas M. Beall

PrimeEnergy Asset and Income Fund AA-3 Attn: Ron Summers

PrimeEnergy Asset and Income Fund AA-4 Attn: Ron Summers

Ward N. Atkins, Jr.

David M. Stevens

Southwest Petroleum Company, L.P.

Richardson Oil Company, LLC

Michael F. Murry

Novo Minerals, LP

Lucinda Loveless

Highland (Texas) Energy Company

Wells Fargo Bank, N.A., Trustee of the Lisa McFarland Trust

Wells Fargo Bank, N.A., Trustee of the Patricia Del Valle Trust

Bruce A. Stubbs

Unleased Mineral Owners:

The New Mexico Department of Transportation

Don L. Parker

Fort Worth Mineral Company, LLC

ORRI Owners:

Estate of Jeanette Hughen

Norma J. Chanley

Dick A. Blenden

Jeffrey B. Diamond

Jeffrey B. Diamond and Envy Diamond

Marifred Handley

Harle, Inc.

Jana Zane Hayes

Gregory Raymond Hayes

Sandy Blenden

Phil Blenden

Robin Shelton

Robert Levenson and Carol Levenson

Kathleen Phillips

Tommy Phipps and Werta Jean Phipps, Trustees of The Phipps Living Trust

Western Commerce Bank for the Account of Forrest Miller

Forrest Miller
Read & Stevens, Inc.
CBR Oil Properties LLC
Hillman Royalties, LP
Stryker Energy, LLC
Zunis Energy, LLC
Susannah D. Adelson, Trustee of the James Adelson & Family 2015 Trusts
Yuma Exploration & Production Company, Inc.
Viper Energy Partners LLC
MCM Permian, LLC

26

Exhibit "B.4" Summary of Contacts

Decimus Fed Com 801H, 701H, 802H, 702H, 803H, 703H, 804H, and 704H S/2 of Section 5 & 6, and N/2 of Section 7 & 8 T23S-R28E: 1,276.60 acres

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 March 21, 2023.
- 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 prior to spud (subject to final approvals), with those working interest owners wishing to execute JOAs
- Marathon had multiple communications with the uncommitted working interest owners, which I have outlined in the chart below.
- Marathon has acquired several parties' working interest in the spacing through commercial transactions
- 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" Summary of Contacts

Decimus Fed Com 801H, 701H, 802H, 702H, 803H, 703H, 804H, and 704H S/2 of Section 5 & 6, and N/2 of Section 7 & 8 T23S-R28E: 1,276.60 acres

Summary of Contact with Working Interest Owners					
Name	% Interest	Proposal Letter Sent	Proposal Letter Received	Follow Up	
				Working on a trade for Marathon to acquire majority of Oxy's interest in the DSU; expected to	
Oxy USA WTP Limited Partnership	18.376547%	3/21/2023	3/22/2023	close Nov. '23	
Fasken Land and Minerals Ltd.	7.230893%	3/21/2023	3/27/2023	JOA executed with Fasken	
Blakemore Family Royalty Partnership	3.133323%	3/21/2023	3/22/2023	Well proposal sent on 3/21/23 and received on 3/22/2023.	
Roy G. Barton, Jr. and Wife, Clauda Barton,					
as Joint Tenants	0.385301%	3/21/2023	3/22/2023	Returned proposal indicating their election to participate in the proposed wells	
Roy G. Barton, Sr. & Opal Barton Revocable					
Trust, Roy G. Barton Jr., Trustee	0.385301%	3/21/2023	3/22/2023	Returned proposal indicating their election to participate in the proposed wells	
Valence Operating Company	0.319812%	3/21/2023	3/22/2023	Returned proposal indicating their election to participate in the proposed wells	
				Talked with Larry Stevens of Stevens Oil & Gas on 9/27 and answered questions regarding the	
Stevens Oil & Gas, LLC	0.296112%	3/21/2023	3/23/2023	development timing of the wells	
Thomas M. Beall	0.239864%	3/21/2023	3/22/2023	Well proposal sent on 3/21/23 and received on 3/22/2023.	
PrimeEnergy Asset and Income Fund AA-3				Well proposals were resent 6/13/23 after the original proposal was unable to be delivered due	
Attn: Ron Summers	0.179898%	3/21/2023	6/14/2023	to an incorrect address	
PrimeEnergy Asset and Income Fund AA-4				Well proposals were resent 6/13/23 after the original proposal was unable to be delivered due	
Attn: Ron Summers	0.179898%	3/21/2023	6/14/2023	to an incorrect address	
Ward N. Atkins, Jr.	0.159915%	3/21/2023	3/22/2023	Returned proposal indicating their election to participate in the proposed wells	
The New Mexico Department of					
Transportation	0.154316%	3/21/2023	3/22/2023	Well proposal sent on 3/21/23 and received on 3/22/2023.	
		- / /			
David M. Stevens	0.148055%	3/21/2023	3/22/2023	Well proposal sent on 3/21/23 and received on 3/22/2023.	
	0.44004707	2/24/2022	2 (22 (2022	W II	
Southwest Petroleum Company, L.P.	0.143817%	3/21/2023	3/22/2023	Well proposal sent on 3/21/23 and received on 3/22/2023.	
Dishardara Gil Carrasara II C	0.103006%	2/21/2022	2/24/2022	M/-II 2/21/22	
Richardson Oil Company, LLC	0.103006%	3/21/2023	3/ 24/ 2023	Well proposal sent on 3/21/23 and received on 3/24/2023.	
Don L. Parker	0.101833%	3/21/2023	2/22/2022	Well proposal sent on 3/21/23 and received on 3/23/2023.	
Don L. Parker	0.10183376	3/21/2023	3/23/2023	Well proposals were resent 6/27/23 after the original proposal was unable to be delivered due	
Fort Worth Mineral Company, LLC	0.101833%	6/13/2023	6/20/2022	to an incorrect address	
Fort Worth Willerai Company, Etc.	0.10103370	0/13/2023	0/20/2023	to an incorrect address	
Michael F. Murry	0.095878%	3/21/2023	2/22/2022	Well proposal sent on 3/21/23 and received on 3/22/2023.	
Wichael F. Wully	0.05367676	3/21/2023	3/22/2023	well proposal sent on 3/21/25 and received on 3/22/2025.	
Novo Minerals, LP	0.077060%	3/21/2023	3/22/2023	Discussed drilling plan with Novo and sent proposed JOA	
THOSE INTERIOR OF THE PROPERTY	0.07700076	3/21/2023	3/22/2023	processed driving plan with novo and serie proposed JOA	
Lucinda Loveless	0.071959%	3/21/2023	3/22/2023	Well proposal sent on 3/21/23 and received on 3/22/2023.	
Edellida Edveress	0.07133370	5/21/2025	S/ EL/ EUES	Well proposul selection 5/ £1/ £5 and received on 5/ £1/ £5£5.	
Highland (Texas) Energy Company	0.071440%	3/21/2023	3/24/2023	Well proposal sent on 3/21/23 and received on 3/24/2023.	
Wells Fargo Bank, N.A., Trustee of the Lisa	0.071-4070	5/22/2023	5, 24, 2025	Well proposals were resent 6/13/23 after the original proposal was unable to be delivered due	
McFarland Trust	0.035980%	3/21/2023	6/15/2023	to an incorrect address	
Wells Fargo Bank, N.A., Trustee of the	2.25550070	5/21/2025	0/ 13/ 2023	Well proposals were resent 6/13/23 after the original proposal was unable to be delivered due	
Patricia Del Valle Trust	0.035980%	3/21/2023	6/15/2023	to an incorrect address	
r dericia per vane rrast	0.000000	3/21/2023	0/13/2023	Well proposals were resent 6/13/23 after the original proposal was unable to be delivered due	
Bruce A. Stubbs	0.008862%	3/21/2023	6/15/2023	to an incorrect address	
	0.00000Z/0	3/24/2023	5, 13/2023		

28



Patricia Schoenberger

Land Professional

Marathon Oil Company

990 Town and Country Blvd. Houston, TX 77024 Telephone 832.386.0393 schoenberg@marathonoil.com

March 15, 2023

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

Re: Decimus Fed Com Unit (the "Wells")

Participation Proposal S/2 of Section 5&6

Township 23 South, Range 28 East

N/2 of Section 7&8

Township 23 South, Range 28 East

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 the S/2 of Sections 5 and 6, Township 23 South, Range 28 East, and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, Eddy County, New Mexico (the "Subject Lands"), as follows:

1) Decimus Fed Com 801H

SHL: SW/4 of Section 6-23S-28E

First take point: 330' FWL & 2310' FSL of Section 6, 23S-28E Last take point: 330' FEL & 2310' FSL of Section 5, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 10,010' and an approximate measured depth of 20,260'.

2) Decimus Fed Com 701H

SHL: SW/4 of Section 6-23S-28E

First take point: 330' FWL & 1650' FSL of Section 6, 23S-28E Last take point: 330' FEL & 1650' FSL of Section 5, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 9,330 and an approximate measured depth of 19,580'.

3) Decimus Fed Com 802H

SHL: SW/4 of Section 6-23S-28E

First take point: 330' FWL & 990' FSL of Section 6, 23S-28E Last take point: 330' FEL & 990' FSL of Section 5, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 10,010' and an approximate measured depth of 20,260'.

4) Decimus Fed Com 702H

SHL: SW/4 of Section 6-23S-28E

First take point: 330' FWL & 300' FSL of Section 6, 23S-28E Last take point: 330' FEL & 300' FSL of Section 5, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 9,330' and an approximate measured depth of 19,580'.

5) Decimus Fed Com 803H

SHL: NW/4 of Section 7-23S-28E

First take point: 330' FWL & 300' FNL of Section 7, 23S-28E Last take point: 330' FEL & 300' FNL of Section 8, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 10,010' and an approximate measured depth of 20,260'.

6) Decimus Fed Com 703H

SHL: NE/4 of Section 8-23S-28E

First take point: 330' FEL & 990' FNL of Section 8, 23S-28E Last take point: 330' FWL & 990' FNL of Section 7, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 9,480' and an approximate measured depth of 19,730'.

7) Decimus Fed Com 804H

SHL: NE/4 of Section 8-23S-28E

First take point: 330' FEL & 1650' FNL of Section 8, 23S-28E Last take point: 330' FWL & 1650' FNL of Section 7, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 10,160' and an approximate measured depth of 20,410'.

8) Decimus Fed Com 704H

SHL: NE/4 of Section 8-23S-28E

First take point: 330' FEL & 2310' FNL of Section 8, 23S-28E Last take point: 330' FWL & 2310' FNL of Section 7, 23S-28E

The Well will be drilled horizontally within the Purple Sage/Wolfcamp formation to an approximate true vertical depth of 9,480' and an approximate measured depth of 19,730'.

Authority for Expenditure (AFEs)

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
- \$8,000 per month drilling overhead rates and \$800 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

Patricia Schoenberger

Patricia Schoenberger

31

Land Professional

PARTICIPATION BALLOT

1)	Not to participate in the Decimus Fed Com 801H Well.
	Participate in the Decimus Fed Com 801H Well by paying its proportionate share of all actual costs
2)	Not to participate in the Decimus Fed Com 701H Well.
	Participate in the Decimus Fed Com 701H Well by paying its proportionate share of all actual costs
3)	Not to participate in the Decimus Fed Com 802H Well.
	Participate in the Decimus Fed Com 802H Well by paying its proportionate share of all actual costs
4)	Not to participate in the Decimus Fed Com 702H Well.
	Participate in the Decimus Fed Com 702H Well by paying its proportionate share of all actual costs.
5)	Not to participate in the Decimus Fed Com 803H Well.
	Participate in the Decimus Fed Com 803H Well by paying its proportionate share of all actual costs.
6)	Not to participate in the Decimus Fed Com 703H Well.
	Participate in the Decimus Fed Com 703H Well by paying its proportionate share of all actual costs
7)	Not to participate in the Decimus Fed Com 804H Well.
	Participate in the Decimus Fed Com 804H Well by paying its proportionate share of all actual costs.
8)	Not to participate in the Decimus Fed Com 704H Well.
	Participate in the Decimus Fed Com 704H Well by paying its proportionate share of all actual costs

Date: _____

			DRILL	ING & LOCATION PREPARE	DATE 3/15/20 ED BY COURT NELSON
DETAIL OF ESTIMATED WELL COSTS				COMPLETION PREPARI FACILITIES PREPARI	ED BY KRISTEN DRAIN ED BY HARSHA DISSANAYAKE
				ARTIFICIAL LIFT PREPARE	ED BY CRAIG PLANTE
sset Team ield	PERMIAN Purple Sage/Wolfca			WILDCAT	EXPLORATION
ease/Facility	Decimus Fed Com 7	D1H		DEVELOPMENT	RECOMPLETION
ocation Prospect	SW/4 of Section 6-2 Malaga	IS-28E	X	_EXPLOITATION	WORKOVER
st Total Depth	19,580	Est Drilling Days	21.25	Est Completion	Days11
OCATION COST - INTANGIBLE					
GL CODE		DECC	PURTION		ESTIMATED COST
7001270		and Access	RIPTION		ESTIMATED COST 165,0
7001250	Land Brok	er Fees and Services			110,0
	TOTAL LOCATION CO	OST - INTANGIBLE			\$275,0
PRILLING COST - TANGIBLE					
7001270	Conducto				30,2
7012050 7012050	Surface Co	asing ate Casing 1			31,4 128,4
7012050 7012050	Intermed Productio	ate Casing 2 n Casing			629,9
7012050 7012550	Drlg Liner	Hanger, Tieback Eq & C	sg Accessories		29,0
7012040	Casing &	Tubing Access			66,6
7290003		eous MRO Materials			6,0
	TOTAL DRILLING - TA	ANGIBLE			\$921,9
RILLING COST - INTANGIBLE					
7290002		g Mob/Demob			121,1
7290002 7019040		g - day work/footage al Drilling Services			690,5 196,9
7019020 7019020	Cement a	nd Cementing Servic Sund Cementing Servic Int			18,1 30,2
7019020	Cement a	nd Cementing Servic Int	ermediate 2		
7019020 7019140	Mud Fluid	nd Cementing Servic Pro Is & Services	oduction		181,7 80,2
7012310 7012020	Solids Cor Bits	ntrol equipment			51,7 145,3
7019010 7016350	Casing Cre Fuel (Rig)	ew and Services			48,4 89,1
7019140	Fuel (Muc				36,3
7001460 7012350	Water (po				30,2 6,0
7019000 7019150		ing Services ing+geosteering			16,7
7019250 7019110		s, Hole Openers, Underropection/cleaning	eamers (DH rent	als)	42,4 18,1
7019110 7016180		collar inspection service	es		12,1 30,2
7001460	Water ha	uling and disposal (inclu			72,6
7001160 7001440	Vacuum T		Hazardous Wast	<u> </u>	96,9 12,1
7000030 7000010		abor - general abor - Operations			36,3 3,6
7001200 7019300	Contract	Services - Facilities ices - Well Control Services	res		12,1 25,7
7019350	Well Serv	ices - Well/Wellhead Ser	rvices		12,1
7290003 7260001	Rig Equip	ols and Equipment (surf ment and Misc.	ace rentals)		14,3 115,0
7001110 7001120	Telecomn Consultin	nunications Services g Services			
7001400 7330002		d Environmental ildings (trailers)			40,2 14,3
7019310 7011010	Coring (si	dewalls & analysis) gency & Taxes			268,0
7011010	TOTAL DRILLING - IN				
	TOTAL DRILLING - IN	TANGIBLE			\$2,697,2
	TOTAL DRILLIN	G COST			42.540.2
		3 605.			
					\$3,619,2
COMPLETION - TANGIBLE					\$3,619,2
GL CODE		DESC	RIPTION		\$3,619,2
	Tubing	DESC			
GL CODE 7012580 7012040 7012550	Tubing Tubing Ac Wellhead	cessories (nipple, wireli Equip			
GL CODE 7012580 7012040	Tubing Tubing Ac Wellhead Packers -	cessories (nipple, wireli Equip Completion Equipment			ESTIMATED COST
GL CODE 7012580 7012040 7012550 7012560	Tubing Tubing Ac Wellhead	cessories (nipple, wireli Equip Completion Equipment			ESTIMATED COST
GL CODE 7012580 7012040 7012550 7012560	Tubing Tubing Ac Wellhead Packers -	cessories (nipple, wireli Equip Completion Equipment			ESTIMATED COST
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location :	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE and Access (dress locatio	ne entry)	, set anchors)	ESTIMATED COST
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140	Tubing Tubing Ac Wellhead Packers - TOTAL COMPLETION Location i Drilling Rii Mud Flui	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE and Access (dress locatic g During Completion is & Services	ne entry)	, set anchors)	15,0 \$15,1
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002	Tubing Tubing Ac Wellhead Packers - TOTAL COMPLETION Location i Drilling Rii Mud Flui	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE and Access (dress locatic g During Completion is & Services Jing Services (3 runs)	ne entry)	, set anchors)	ESTIMATED COST 15,0 \$15,0
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270	Tubing Tubing Ac Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tul Snubbing Pulling/Sr	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE and Access (dress locatic g During Completion is & Services ing Services (3 runs) Services vab Units	ne entry)	, set anchors)	15,0 \$15,1
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tu Snubbing Pulling/Ss Fuel (fron Casing Cr	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE and Access (dress locatic g During Completion is & Services joing Services (3 runs) Services vab Units a drig)	ne entry)	, set anchors)	15,0 \$15,1
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019240 7019240 7019240 7019210 7019010 7019010 7019020 7019080	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tul Snubbing Pulling/St Fuel (fron Casing Cr Cement a Well Test	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE I - TANGIBLE and Access (dress locatic g During Completion is & Services loing Services (3 runs) Services vab Units I drig) wa and Services ing Services (flow hand of	on after rig move	, set anchors)	15,0 \$15,0 \$15,0 12,5 197,0
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 7390002 7019330	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tu Snubbing Pulling/Si Fuel (fron Casing Cr Cement a Well Test Fracturing	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion is & Services poing Services (3 runs) Services wash Units and right (2 runs) wand Services and Services g Services (flow hand & Services (flow hand & Services g Services	on after rig move	, set anchors)	15,0 \$15,0 \$15,0 12,5
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019020 7019020 7019020 7019030 7390002 7019330 7019330 7019360 7001460	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tu Snubbing Pulling/S Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Wireline !	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE and Access (dress locatic g During Completion is & Services ning Services (3 runs) Services ab Units a drig) we and Services d Cementing Services d Cementing Services (5 services (flow hand if control of the services (5 services) g Services uling & Disposal (frac fit	on after rig move & equip)	, set anchors)	15,0 \$15,1 \$17,0 12,5 197,0 484,5 5,155,1
GL CODE 7012580 7012040 7012550 7012560 OMPLETION - INTANGIBLE 7001270 7290002 7019140 7019240 7019240 7019270 70196350 7019010 7019020 7019080 7390002 7019330 7019360	Tubing Tubing At Wellhead Packers TOTAL COMPLETION Location: Drilling Ri Mud Fluic Colled Tu Snubbing Pulling/Si Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Wireline !	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion is & Services oing Services (3 runs) Services vab Units oid fig) w and Services ing Services (flow hand of Services	on after rig move & equip)	, set anchors)	15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019020 7019020 7019020 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019330 7019360 7001460 7016180 7290003	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tu Snubbing Pulling/S Fuel (fron Casing Cr Cement a Well Test Fracturin Perforatir Wireline : Water Ha Freight - 1 BOP Water Ha Freight - 1 BOP Rental To	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion is & Services ing Services (3 runs) Services vab Units d drig) ew and Services and Cementing Services d Cementing Services (5 Services g Services (flow hand is 6 Services g Services (1 services) g Services	on after rig move S. equip) Jids) Jids) Jids; Jids;		15,0 \$15,6 \$15,6 12,5 197,0 484,5 5,155,1 234,1 362,7
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019240 7019270 7016350 7019010 7019020 7019030 7019020 7019330 7019020 7019330 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 70190003 7290003 7290003	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluit Coiled Tul Snubbing Pulling/St Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Water Ha Freight - 1 BOP Rent Rental To CT Down!	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion Is & Services long Services (3 runs) Services and Services and Services and Services gew and Services ing Services (flow hand it services gew and Services ing Services (flow hand it services gervices ge	on after rig move S. equip) Jids) Jids) Jids; Jids;		15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1 362,7
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 7019330 7019360 7019460 7016180 7290003 7290003 7290003 7290003 7290003 7000030 7001110	Tubing Tubing A Wellhead Packers TOTAL COMPLETION Location: Drilling Ri Mud Fluic Coiled Tul Snubbing Pulling/S; Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Wireline: Water Ha Freight -1 BOP Rent Rental To CT Downl	cessories (nipple, wireli Equip Completion Equipment I - TANGIBLE and Access (dress locatic g During Completion is & Services sing Services (3 runs) Services and Durits and Cementing Services ng Services (flow hand is Services ulting & Disposal (frac flu ruck (haul pipe; drig & ca ols and Equipment (i include Rental Equipment (i includ	on after rig move S. equip) Jids) Jids) Jids; Jids;		15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1 362,7 58,2
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019020 7019080 7390002 701930 701930 7019680 7390002 701930 7019680 7290003 7290003 7290003 7290003	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tu Snubbing Pulling/S Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Wireline : Water Ha Freight -1 BOP Mater Ha Freight -1 BOP CONTROLL Rental To CT Down! Contract I	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion Is & Services oning Services (3 runs) Services oning Services (3 runs) Services on the completion Is & Services on the completion Is & Services on the completion Is & Services In Services In Services In Services In Services (flow hand in Services) In Services (flow	on after rig move S. equip) Jids) Jids) Jids; Jids;		15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1 362,7
7012580 7012040 7012550 7012560 7012560 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 701930 7019240 7019240 7019200 7019080 7390002 7019080 7390002 7019360 70101680 70101680 7290003 7290003 7290003 7290003 7290003 70001400 7001110 7001400 7001120 7019300	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tul Snubbing Pulling/Ss Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatri Wireline : Water Ha Freight - 1 BOP Rent Rental To CT Downh Contract I Telecomn Safety an Consultin Zipper Mi	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion is & Services sing Services (3 runs) Services vab Units a drig) w and Services ng Services (flow hand is Services using & Disposal (frac fit ruck (haul pipe; drig & c al & Testing ols and Equipment (in abor - general unications Services I Environmental g Services unifold k Rentals	on after rig move S. equip) Jids) Jids) Jids; Jids;		15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1 362,7 58,2 44,7 117,7 176,2 152,2
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 701930 701110 7001400 7001120 7019300 7016180 7260001	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tu Snubbing Pulling/Si Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Wireline ! Water Ha Freight - 1 BOP Rent Rental TO CT Down! Contract I Telecomn Safety an Consultin Zipper Ma	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion Is & Services soing Services (3 runs) Services usab Units drig) se and Services da Cementing Services ng Services (16w hand is services ling & Disposal (frac flit ruck (haul pipe; drig & ci al & Testing ols and Equipment (incl note Rental Equipment (incl note Rental Equipment (incl note Rental Equipment) sols and Equipment s	on after rig move & equip) sids) compl) drig; lightplant, ie. Bit, BHA)	nydra-walk)	15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1 362,7 58,2 44,7 117,7 176,2
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 701930 7019240 7019270 7016350 7019010 7019020 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019003 7290003 7290003 7290003 7000110 7001100 7001120 7019300 7016180 7260001 730002	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tul Snubbing Pulling/S Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Wireline's Water Ha Freight - 1 BOP Rent Rental To CT Down! Constract I Telecomn Safety an Consultal Zipper Mi Frack Stac Freight (T Equipmer Rental Bu Contract I	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion Is & Services oning Services (3 runs) Services oning Services (3 runs) Services on the completion Is & Services In Services In Services In Services In Services In Services (flow hand in Services) In Services	on after rig move & equip) drig; lightplant, ie. Bit, BHA)	nydra-walk)	15,0 \$15,0 \$15,0 \$15,0 \$15,0 \$12,5 \$197,0 \$484,5 \$5,155,1 \$234,1 \$362,7 \$58,2 \$44,7 \$117,7 \$176,2 \$152,2 \$8,5
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 7019330 7019300 701966 7016180 7290003 7290003 7290003 7290003 7290003 7290003 7001100 7001100 7001100 7001100 7001100 7001100 7016180 7291000 7001100 7001100 7001100 7001100 7001100 7016180 7290003 7290003	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tul Snubbing Pulling/Sr Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatri Wireline : Water Ha Freight - 1 BOP Rent Rental To CT Downh Contract I Telecomn Safety an Consultin Zipper Me Frack Stac Frack Stac Frack Tac Frack Stac Frack St	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion is & Services sing Services (3 runs) Services vab Units drig) w and Services and Cementing Services ing Services (flow hand & Services using & Disposal (frac fit ruck (haul pipe; drig & c al & Testing ols and Equipment (i abor - general runications Services I for the completion of the completi	on after rig move & equip) drig; lightplant, ie. Bit, BHA)	nydra-walk)	15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1 362,7 58,2 44,7 117,7 176,2 152,2 152,2 152,2 152,2
GL CODE 7012580 7012040 7012550 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019180 7390002 7019300 701660 7016180 7290003 7290003 7290003 7290003 7290003 7001100 7001120 7019300 701110 7011400 7001120 7019300 7016180 7260001 730002	Tubing Tubing At Wellhead Packers - TOTAL COMPLETION Location : Drilling Ri Mud Fluic Coiled Tul Snubbing Pulling/S Fuel (fron Casing Cr Cement a Well Test Fracturing Perforatir Wireline's Water Ha Freight - 1 BOP Rent Rental To CT Down! Constract I Telecomn Safety an Consultal Zipper Mi Frack Stac Freight (T Equipmer Rental Bu Contract I	cessories (nipple, wireli Equip Completion Equipment 1 - TANGIBLE and Access (dress locatic g During Completion is & Services sing Services (3 runs) Services vab Units drig) w and Services and Cementing Services ing Services (flow hand & Services using & Disposal (frac fit ruck (haul pipe; drig & c al & Testing ols and Equipment (i abor - general runications Services I for the completion of the completi	on after rig move & equip) drig; lightplant, ie. Bit, BHA)	nydra-walk)	15,0 \$15,0 \$15,0 12,5 197,0 484,5 5,155,1 234,1 362,7 58,2 44,7 117,7 176,2 152,2 152,2 152,2 152,2

SURFACE EQUIPMENT - TANGIBLE

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	and the state of t		
7012350 7006640	Misc. Piping, Fittings & Valves Company Labor & Burden		130,155
7000030	Contract Labor - General		141,355
			141,333
7001110	Telecommunication equip (Telemetry)		37.000
7012410	Line Pipe & Accessories		37,680
7012270	Miscellaneous Materials (containment system)		39,249
7008060	SCADA		12,417
7016180	Freight - truck		12,981
7001190	Contract Engineering		8,041
7012290	Metering and Instrumentation		220,258
7012290	I&E Materials		129,197
7012200	Gas Treating		-
7012200	Dehydration		-
7012010	Compressor		14,948
7012350	Power	_	
7012610	Vapor Recovery Unit		-
7012440	Separator & other pressure vessels		208,842
7012500			36,761
7012100	Heater Treater		108,649
7012640	Flare & Accessories		15,782
7000010	Electrical Labor		71,389
7000010	Mechanical Labor		154,377
7012480	Rod Pumping unit & Pad		
7012180	Pumping Unit Engine	_	-
7012350	Electrical Power (electrical cooperative construction costs)		28,919
7012330	Liectrical Fower (electrical cooperative construction costs)		20,313
	TOTAL SURFACE EQUIPMENT - TANGIBLE		\$1,371,000
	TOTAL SURFACE EQUIPMENT COST	\$	1,371,000
TIFICIAL LIFT			
7000000	Combrant lab		
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		6,085
7019130	Kill Fluid		
			2,028
7019220	Well Services & Rig		24,339
	TOTAL ARTIFICIAL LIFT		431,000
	TOTAL ARTIFICIAL LIFT COST		424.000
	TOTAL ARTIFICIAL LIFT COST	\$	431,000
	SUMMARY OF ESTIMATED DRILLING WELL CO	OSTS 1	TOTAL COST
	TOTAL LOCATION COST	\$	275,000
		Ģ	
	TOTAL DRILLING COST		2 610 220
	TOTAL DIVILLING COST	\$	3,619,220
		\$	
	TOTAL COMPLETIONS COST	\$	7,291,709
		\$	
	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$	7,291,709 1,371,000
	TOTAL COMPLETIONS COST	\$	7,291,709
	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$	7,291,709 1,371,000 431,000
	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$	7,291,709 1,371,000
ARATHON OIL PERMIAN LLC	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ \$	7,291,709 1,371,000 431,000
THORITY FOR EXPENDITURE	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST set Team	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST IS	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST set Team	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COST set Team Id	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST IS	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COST et Team d	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST TS PERMIAN Purple Sage/Wolfcamp	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COST SET Team Id see/Facility	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST TS PERMIAN Purple Sage/Wolfcamp	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST Set Team Id use/Facility	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST TS PERMIAN Purple Sage/Wolfcamp	\$ \$	7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST set Team Id asse/Facility	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST TS PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST set Team Id see/Facility XTRA EXPENSE INSURANCE	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H to be covered by Operator's Extra Expense Insurance and pay my proportionate	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST SET TEAM Id usse/Facility XTRA EXPENSE INSURANCE	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate in his secured Extra Expense Insurance covering costs of well control, clean up and redrilling as	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE ITAIL OF ESTIMATED WELL COST set Team losse/Facility XTRA EXPENSE INSURANCE I elect t Operator estimate	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H to be covered by Operator's Extra Expense Insurance and pay my proportionate r has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ed in Line item 0380-0185.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE ITAIL OF ESTIMATED WELL COST set Team losse/Facility XTRA EXPENSE INSURANCE I elect t Operator estimate	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate in his secured Extra Expense Insurance covering costs of well control, clean up and redrilling as	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST set Team label see/Facility XTRA EXPENSE INSURANCE I elect t Operator estimate	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H to be covered by Operator's Extra Expense Insurance and pay my proportionate r has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ed in Line item 0380-0185.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
Operator estimate I elect t	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H to be covered by Operator's Extra Expense Insurance and pay my proportionate r has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ed in Line item 0380-0185.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST set Team Id sese/Facility XTRA EXPENSE INSURANCE lelect t Operato lelect t	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H to be covered by Operator's Extra Expense Insurance and pay my proportionate r has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ad in Line item 0180-0185. to purchase my own well control insurance policy.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COST set Team label see/Facility XTRA EXPENSE INSURANCE I elect t Operator elect t elect t	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate or has secured Extra Expense Insurance and pay my proportionate or in Line item 0180-0185. To purchase my own well control insurance policy.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COST et Team d ses/Facility CTRA EXPENSE INSURANCE lelect t Operator lelect t	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate or has secured Extra Expense Insurance and pay my proportionate or in Line item 0180-0185. To purchase my own well control insurance policy.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COST et Team d see/Facility TATA EXPENSE INSURANCE lelect t Operator estimate lelect t Operator	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate or has secured Extra Expense Insurance and pay my proportionate or in Line item 0180-0185. To purchase my own well control insurance policy.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COST et Team d ses/Facility TRA EXPENSE INSURANCE lelect t Operator estimate lelect t operator lelect t Operator lelect t lelect t	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate or has secured Extra Expense Insurance and pay my proportionate or in Line item 0180-0185. To purchase my own well control insurance policy.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COST et Team d see/Facility CTRA EXPENSE INSURANCE lelect t Operator estimate lelect t neither box is checked above, ne	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate or has secured Extra Expense Insurance and pay my proportionate or in Line item 0180-0185. To purchase my own well control insurance policy.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE All OF ESTIMATED WELL COST et Team d see/Facility CTRA EXPENSE INSURANCE lelect t Operator estimate lelect t operator lelect t Operator company / Owner:	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST S PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 701H To be covered by Operator's Extra Expense Insurance and pay my proportionate or has secured Extra Expense Insurance and pay my proportionate or in Line item 0180-0185. To purchase my own well control insurance policy.	\$ \$ \$ DATE	7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023

35

MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS 3/15/2023 DRILLING & LOCATION PREPARED BY COURT NELSON COMPLETION PREPARED BY KRISTEN DRAIN
FACILITIES PREPARED BY HARSHA DISSANAYAKE ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE Asset Team Field Purple Sage/Wolfcamp Decimus Fed Com 702H Lease/Facility DEVELOPMENT
X EXPLOITATION SW/4 of Section 6-23S-28E Prospect **Est Total Depth** 19,580 Est Drilling Days 21.25 **Est Completion Days** LOCATION COST - INTANGIBLE GL CODE DESCRIPTION **ESTIMATED COST** Location and Access
Land Broker Fees and Service TOTAL LOCATION COST - INTANGIBLE \$275,000 DRILLING COST - TANGIBLE 7001270 30.288 Conductor Pipe
Surface Casing
Intermediate Casing 1
Intermediate Casing 2
Production Casing
Drig Liner Hanger, Tieback Eq & Csg Accessories
Drilling Wellhead Equipment
Casing & Tubing Access 7012050 128,421 629,988 29,076 66,633 Miscellaneous MRO Materials TOTAL DRILLING - TANGIBLE \$921,964 DRILLING COST - INTANGIBLE 7290002 Drilling Rig Mob/Demok 121,152 Drilling Rig Mob/Demob
Drilling Rig - day work/footage
Directional Drilling Services
Cement and Cementing Servic Surface
Cement and Cementing Servic Intermediate 1
Cement and Cementing Servic Intermediate 2
Cement and Cementing Servic Production
Mud Fluids & Services
Solids Control equipment
Bits
Casing Crew and Services 690,564 196,993 18,173 7290002 7019040 7019020 7019020 7019020 7019020 7019140 7012310 7012020 181,727 181,727 80,263 51,792 145,382 48,461 89,198 36,345 30,288 Bits
Casing Crew and Services
Fuel (Rig)
Fuel (Mud)
Water (non potable)
Water (potable)
Well Logging Services 7019010 7016350 7019140 6,058 Mud Logging+geosteering 7019150 16,764 Stabilizers, Hole Openers, Underreamers (DH rentals)
Casing inspection/cleaning 42,403 18,173 12,115 30,288 7019250 7019110 Drill pipe/collar inspection services Freight - truck
Water hauling and disposal (includes soil farming)
Contract Services - Disposal/Non-Hazardous Waste 7016180 72,691 96,921 Vacuum Trucks
Contract Labor - general
Contract Labor - Operations
Contract Labor - Operations
Contract Services - Facilities
Well Services - Well Control Services
Well Services - Well Wellhead Services
Rental Tools and Equipment (surface rentals)
Rig Equipment and Misc.
Telecommunications Services
Consulting Services
Safety and Environmental
Rental Buildings (trailers)
Coring (sidewalls & analysis)
8% Contingency & Taxes 7001440 Vacuum Trucks 7000030 36,345 3,635 12,115 25,745 12,115 14,387 115,094 6,058 120,849 40,283 14,387 7000010 7001200 7019300 7019350 7290003 7260001 7001110 7001120 7001400 7330002 268,090 **TOTAL DRILLING - INTANGIBLE** \$2,697,256 TOTAL DRILLING COST \$3,619,220 COMPLETION - TANGIBLE Tubing Accessories (nipple, wireline entry) 15,000 Wellhead Equip Packers - Complet TOTAL COMPLETION - TANGIBLE \$15,000 COMPLETION - INTANGIBLE 7001270 Location and Access (dress location after rig move, set anchors) 12,539 7290002 7019140 Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs)
Snubbing Services 197,042 Pulling/Swab Units 7016350 7019010 7019020 7019080 7390002 7019330 7019360 Fuel (from drlg)
Casing Crew and Services
Cement and Cementing Services
Well Testing Services (flow hand & equip) Fracturing Services 5,155,178 234,172 Perforating Wireline Services 362,770 Water Hauling & Disposal (frac fluids) 7016180 Freight - Truck (haul pipe; drlg & compl) BOP Rental & Testing Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)
CT Downhole Rental Equipment (ie. Bit, BHA) 58,217 Contract Labor - general 7000030 7001110 7001400 44,782 Telecommunications Services Safety and Environmental 117,778 176,235 152,260 Frack Stack Rentals Freight (Transportation Services) 8,598 227,785 Equipment Rental (w/o operator, frac tanks, lightplants)
Rental Buildings (trailers) 733000 44,782 Contract Labor - Pumping (pump-down pumps) 8% Contingency & Taxes TOTAL COMPLETION - INTANGIBLE \$7,276,709 TOTAL COMPLETION COST \$7,291,709 SURFACE EQUIPMENT - TANGIBLE

	and the state of t	400 400
7012350 7006640	Misc. Piping, Fittings & Valves Company Labor & Burden	130,155
7000030	Contract Labor - General	141,355
7001110	Telecommunication equip (Telemetry)	
7012410	Line Pipe & Accessories	37,680
7012270	Miscellaneous Materials (containment system)	39,249
7008060	SCADA	12,417
7016180	Freight - truck	12,981
7001190	Contract Engineering	8,041
7012290	Metering and Instrumentation	220,258
7012290	I&E Materials	129,197
7012200	Gas Treating	_
7012200	Dehydration	
7012010	Compressor	14,948_
7012350	Power Name Parameter Halfs	
7012610	Vapor Recovery Unit	
7012440	Separator & other pressure vessels	208,842
7012500	Tanks Hooter Treater	36,761
7012100 7012640	Heater Treater Flare & Accessories	108,649
		15,782
7000010 7000010	Electrical Labor Mechanical Labor	
7012480	Rod Pumping unit & Pad	134,377
7012180	Pumping Unit Engine	<u>-</u> _
7012350	Electrical Power (electrical cooperative construction costs)	28,919
	TOTAL SURFACE EQUIPMENT - TANGIBLE	\$1,371,000
	TOTAL SURFACE EQUIPMENT COST	\$ 1,371,000
TIFICIAL 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 Kill Fluid	6,085
7019130 7019220	Kill Fluid Well Services & Rig	2,028 24,339
7019220	well services & rig	24,339
	TOTAL ARTIFICIAL LIFT	431,000
	TOTAL ARTIFICIAL LIFT COST	\$
	SUMMARY OF ESTIMATED DRILLING WELL COST	rs TOTAL COST
	SUMMARY OF ESTIMATED DRILLING WELL COST	\$ 275,000
		\$ 275,000
	TOTAL LOCATION COST TOTAL DRILLING COST	\$ 275,000 \$ 3,619,220
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000
HORITY FOR EXPENDITURE	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000
HORITY FOR EXPENDITURE	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000
HORITY FOR EXPENDITURE AIL OF ESTIMATED WELL COSTS	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS of Team	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS of Team	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000
HORITY FOR EXPENDITURE AIL OF ESTIMATED WELL COSTS et Team d le/Facility	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000
CHORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS et Team d see/Facility TRA EXPENSE INSURANCE	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 42,987,929
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS et Team de de trace/Facility TRA EXPENSE INSURANCE	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 12,987,929 DATE 3/15/2023
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS Ist Team Bee/Facility TRA EXPENSE INSURANCE I elect to b Operator ha	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 12,987,929 DATE 3/15/2023
THORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS at Team dise/Facility TRA EXPENSE INSURANCE I elect to be operator has estimated in	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 12,987,929 DATE 3/15/2023
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS et Team d d transperse insurance lelect to book to be described in the stimated in lelect to p	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no Line item 0180-0185. purchase my own well control insurance policy.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 42,987,929
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS et Team d d transperse insurance lelect to book to be described in the stimated in lelect to p	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no line item 0180-0185.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 12,987,929 DATE 3/15/2023
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS et Team ine/Facility TRA EXPENSE INSURANCE I elect to be operator has estimated in a continuated in a continuated in a continuated in the continuate	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no Line item 0180-0185. purchase my own well control insurance policy.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 12,987,929 DATE 3/15/2023
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS et Team di dise/Facility TRA EXPENSE INSURANCE I elect to b Operator ha estimated ir I elect to p neither box is checked above, non-	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no line item 0180-0185. purchase my own well control insurance policy.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 42,987,929
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS et Team di lee/Facility TRA EXPENSE INSURANCE lelect to to perator ha estimated in 1 elect to perator has estimated in 1 elect to 1 elect	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no line item 0180-0185. purchase my own well control insurance policy.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 12,987,929 DATE 3/15/2023
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS Interpretation of the properties	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no line item 0180-0185. purchase my own well control insurance policy.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 42,987,929
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS at Team d resplaciblity TRA EXPENSE INSURANCE lelect to b	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no line item 0180-0185. purchase my own well control insurance policy.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 42,987,929
Operator ha estimated ir I elect to p	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 702H be covered by Operator's Extra Expense Insurance and pay my proportionate sha as secured Extra Expense Insurance covering costs of well control, clean up and redrilling as no line item 0180-0185. purchase my own well control insurance policy.	\$ 275,000 \$ 3,619,220 \$ 7,291,709 \$ 1,371,000 \$ 431,000 \$ 42,987,929

Asset Team Field Lease/Facility Location Prospect Est Total Depth LOCATION COST - INTANGIBLE GL CODE 7001270 7001250 DRILLING COST - TANGIBLE 7001270 7012050	PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 703H NE/4 of Section 8-23S-28E Malaga 19,730 Est Drilling Days DESCRIPTION Location and Access ARTIFICIAL LIFT PREPARED BY WILDCAT DEVELOPMENT X EXPLOITATION Est Completion Days	EXPLORATION RECOMPLETION WORKOVER
Field Lease/Facility Location Prospect Est Total Depth LOCATION COST - INTANGIBLE GL CODE 7001270 7001250 DRILLING COST - TANGIBLE 7001270	Purple Sage/Wolfcamp Decimus Fed Com 703H NE/4 of Section 8-23S-28E Malaga 19,730 Est Drilling Days DESCRIPTION Location and Access WILDCAT DEVELOPMENT X EXPLOITATION Est Completion Days	RECOMPLETION WORKOVER
ease/Facility ocation Prospect stst Total Depth OCATION COST - INTANGIBLE GL CODE 7001270 7001250 DRILLING COST - TANGIBLE 7001270	Decimus Fed Com 703H NE/4 of Section 8-23S-28E Malaga 19,730 Est Drilling Days 21.25 DESCRIPTION Location and Access	RECOMPLETION WORKOVER
ocation cost - intangible GL CODE 7001270 7001250 DRILLING COST - TANGIBLE 7001270	Malaga	<u>-</u>
OCATION COST - INTANGIBLE GL CODE 7001270 7001250 DRILLING COST - TANGIBLE 7001270	DESCRIPTION Location and Access	11
GL CODE 7001270 7001250 DRILLING COST - TANGIBLE 7001270	Location and Access	
7001270 7001250 DRILLING COST - TANGIBLE 7001270	Location and Access	
7001250 DRILLING COST - TANGIBLE 7001270		ESTIMATED COST
7001270	Land Broker Fees and Services	165,000 110,000
7001270	TOTAL LOCATION COST - INTANGIBLE	\$275,00
7012050	Conductor Pipe	30,28
7012050	Surface Casing Intermediate Casing 1	31,49 128,42
7012050 7012050	Intermediate Casing 2 Production Casing	629,98
7012050 7012550	Drlg Liner Hanger, Tieback Eq & Csg Accessories Drilling Wellhead Equipment	29,07
7012040 7290003	Casing & Tubing Access Miscellaneous MRO Materials	66,63 6,05
	TOTAL DRILLING - TANGIBLE	\$921,96
DRILLING COST - INTANGIBLE		
7290002	Drilling Rig Mob/Demob	121,152
7290002 7019040	Drilling Rig - day work/footage Directional Drilling Services	690,56 196,99
7019020 7019020 7019020	Cement and Cementing Servic Surface Cement and Cementing Servic Intermediate 1	18,17 30,28
7019020	Cement and Cementing Servic Intermediate 2	
7019020 7019140	Cement and Cementing Servic Production Mud Fluids & Services	181,72 80,26
7012310 7012020	Solids Control equipment Bits	51,79 145,38
7019010 7016350	Casing Crew and Services Fuel (Rig)	48,46 89,19
7019140 7001460	Fuel (Mud) Water (non potable)	36,34 30,28
7012350 7019000	Water (potable) Well Logging Services	6,05
7019150 7019250	Mud Logging-geosteering Stabilizers, Hole Openers, Underreamers (DH rentals)	16,76 42,40
7019110	Casing inspection/cleaning	18,17
7019110 7016180	Drill pipe/collar inspection services Freight - truck	12,11 30,28
7001460 7001160	Water hauling and disposal (includes soil farming) Contract Services - Disposal/Non-Hazardous Waste	72,69 96,92
7001440 7000030	Vacuum Trucks Contract Labor - general	12,11 36,34
700010 7001200	Contract Labor - Operations Contract Services - Facilities	3,63 12,11
7019300 7019350	Well Services - Well Control Services Well Services - Well/Wellhead Services	25,74 12,11
7290003 7260001	Rental Tools and Equipment (surface rentals) Rig Equipment and Misc.	14,38 115,09
7001110 7001120	Telecommunications Services Consulting Services	6,05 120,84
7001400 7330002	Safety and Environmental Rental Buildings (trailers)	40,28
7019310 7011010	Coring (sidewalls & analysis) 8% Contingency & Taxes	268,09
7011010	TOTAL DRILLING - INTANGIBLE	\$2,697,25
COMPLETION - TANGIBLE	TOTAL DRILLING COST	\$3,619,22
GL CODE	DECEMBERAL	ECTIMATED COST
7012580	DESCRIPTIONTubing	ESTIMATED COST
7012040 7012550	Tubing Accessories (nipple, wireline entry) Wellhead Equip	15,00
7012560	Packers - Completion Equipment	
	TOTAL COMPLETION - TANGIBLE	\$15,00
COMPLETION - INTANGIBLE		
7001270 7290002	Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion	12,53
7019140 7019030	Mud Fluids & Services Coiled Tubing Services (3 runs)	197,04
7019240 7019270	Snubbing Services Pulling/Swab Units	
7016350 7019010	Fuel (from drlg) Casing Crew and Services	
7019020 7019080	Cement and Cementing Services Well Testing Services (flow hand & equip)	484,57
7390002	Fracturing Services Perforating	5,155,17
7019330 7019360	Wireline Services	234,17
7001460 7016180	Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drlg & compl)	362,77
7290003 7290003	BOP Rental & Testing Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)	
7290003 7290003	CT Downhole Rental Equipment (ie. Bit, BHA) Contract Labor - general	58,21
7000030 7001110	Telecommunications Services Safety and Environmental	44,78
7001400 7001120	Consulting Services Zipper Manifold	117,77 176,23
701120 7019300 7016180	Frack Stack Rentals Freight (Transportation Services)	152,26
7260001	Equipment Rental (w/o operator, frac tanks, lightplants)	227,78
7330002 7000030 7011010	Rental Buildings (trailers) Contract Labor - Pumping (pump-down pumps) Sy Contingent 8, Tayon	44,78
7011010	8% Contingency & Taxes TOTAL COMPLETION - INTANGIBLE	\$7,276,7
	TOTAL COMPLETION COST	\$7,291,70

7012350	Misc. Piping, Fittings & Valves		130,155
7006640	Company Labor & Burden		130,133
7000030	Contract Labor - General		141,355
7001110	Telecommunication equip (Telemetry)		
7012410	Line Pipe & Accessories		37,680
7012270	Miscellaneous Materials (containment system)		39,249
7008060	SCADA		12,417
7016180	Freight - truck		12,981
7001190	Contract Engineering		8,041
7012290	Metering and Instrumentation		220,258
7012290	I&E Materials		129,197
7012200	Gas Treating		-
7012200	Dehydration		-
7012010	Compressor		14,948
7012350	Power		-
7012610	Vapor Recovery Unit		-
7012440	Separator & other pressure vessels		208,842
7012500	Tanks		36,761
7012100	Heater Treater		108,649
7012640	Flare & Accessories		15,782
7000010	Electrical Labor		71,389
7000010	Mechanical Labor		154,377
7012480	Rod Pumping unit & Pad		-
7012180	Pumping Unit Engine		-
7012350	Electrical Power (electrical cooperative construction costs)		28,919
	TOTAL SURFACE EQUIPMENT - TANGIBLE		\$1,371,000
	TOTAL SURFACE EQUIPMENT COST	\$	1,371,000
TIFICIAL LIFT			
700030	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		6,085
7019130	Kill Fluid		2,028
7019220	Well Services & Rig		24,339
	TOTAL ARTIFICIAL LIFT		431,000
	TOTAL ARTIFICIAL LIFT		
	TOTAL ARTIFICIAL LIFT COST	\$	431,000
	TOTAL ARTIFICIAL LIFT COST		
			431,000 OTAL COST
	TOTAL ARTIFICIAL LIFT COST	т	
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST	, \$	OTAL COST 275,000
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST	\$ \$	OTAL COST 275,000 3,619,220
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST	\$ \$ \$	OTAL COST 275,000
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST	\$ \$ \$	275,000 3,619,220 7,291,709
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ \$ \$	275,000 3,619,220 7,291,709
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000
	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
ARATHON OIL PERMIAN LLC THORITY FOR EXPENDITURE	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000
	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COSTS	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COSTS et Team	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
HORITY FOR EXPENDITURE AIL OF ESTIMATED WELL COSTS at Team I	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ \$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS It Team	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST D. PERMIAN Purple Sage/Wolfcamp	\$ \$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS ET Team I ee/Facility	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST D. PERMIAN Purple Sage/Wolfcamp	\$ \$ \$ \$ \$	275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COSTS et Team d se/Facility	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST Driven Sear (No. 1) Control of the c	\$ \$ \$ \$ \$ \$ \$	0TAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
THORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS et Team d see/Facility CTRA EXPENSE INSURANCE I elect to be con	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST DECIMUS Fed Com 703H	\$ \$ \$ \$ \$ \$ \$	OTAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS et Team d see/Facility CTRA EXPENSE INSURANCE I elect to be conformation of the properties of the pro	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST Driver Sage/Wolfcamp Decimus Fed Com 703H	\$ \$ \$ \$ \$ \$ \$	OTAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE (A) COSTS et Team d ses/Facility CTRA EXPENSE INSURANCE I elect to be con Operator has secue estimated in Line i	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST DECIMUS Fed Com 703H Purple Sage/Wolfcamp Decimus Fed Com 703H	\$ \$ \$ \$ \$ \$ \$	OTAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
HORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS at Team dise/Facility TRA EXPENSE INSURANCE I elect to be concepted to the concepted to	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST Driver Sage/Wolfcamp Decimus Fed Com 703H	\$ \$ \$ \$ \$ \$ \$	OTAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929
THORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS at Team d d transport to the cost of	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST DECIMUS Fed Com 703H Purple Sage/Wolfcamp Decimus Fed Com 703H	\$ \$ \$ \$ \$ \$ \$	0TAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS Interpretation of the cost	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST DECIMUS Fed Com 703H Purple Sage/Wolfcamp Decimus Fed Com 703H	\$ \$ \$ \$ \$ \$ \$	0TAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023
HORITY FOR EXPENDITURE All OF ESTIMATED WELL COSTS Interpretation of the cost	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST DEFENMINA Purple Sage/Wolfcamp Decimus Fed Com 703H Vered by Operator's Extra Expense Insurance and pay my proportionate share or red Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185. asse my own well control insurance policy.	\$ \$ \$ \$ \$ \$ \$	0TAL COST 275,000 3,619,220 7,291,709 1,371,000 431,000 \$12,987,929 3/15/2023

Joint Owner Name:

Joint Owner Title:

ETAIL OF ESTIMATED WELL COSTS			DATE 3/15/200 EPARED BY COURT NELSON EPARED BY KRISTEN DRAIN
		FACILITIES PRE	EPARED BY HARSHA DISSANAYAKE EPARED BY CRAIG PLANTE
sset Team	PERMIAN		<u> </u>
eld ease/Facility	Purple Sage/Wolfcamp Decimus Fed Com 704H	WILDCAT DEVELOPMENT	EXPLORATION RECOMPLETION
ocation rospect	NE/4 of Section 8-23S-28E Malaga	X EXPLOITATION	WORKOVER
at Total Depth	19,730 Est Drilling Days	21.25 Est Comple	etion Days 11
OCATION COST - INTANGIBLE	EST DINNING DAYS	EST COMPIN	etion Days 11
GL CODE 7001270	DESC Location and Access	CRIPTION	ESTIMATED COST 165,00
7001250	Land Broker Fees and Services		110,0
	TOTAL LOCATION COST - INTANGIBLE		\$275,0
RILLING COST - TANGIBLE			
7001270	Conductor Pipe		30,2
7012050 7012050	Surface Casing Intermediate Casing 1		31,4 128,4
7012050 7012050	Intermediate Casing 2 Production Casing		629,9
7012050 7012550	Drlg Liner Hanger, Tieback Eq & C Drilling Wellhead Equipment	sg Accessories	29,0
7012040	Casing & Tubing Access		66,6
7290003	Miscellaneous MRO Materials TOTAL DRILLING - TANGIBLE		6,0
	TOTAL DRILLING - TANGIBLE		\$921,5
RILLING COST - INTANGIBLE			
7290002 7290002	Drilling Rig Mob/Demob Drilling Rig - day work/footage		
7019040 7019020	Directional Drilling Services Cement and Cementing Servic Su	rface	196,9 18,1
7019020	Cement and Cementing Servic Int	termediate 1	30,2
7019020 7019020	Cement and Cementing Service Int Cement and Cementing Service Pro		181,7
7019140 7012310	Mud Fluids & Services Solids Control equipment		
7012020 7019010	Bits Casing Crew and Services		145,3
7016350	Fuel (Rig)		89,1
7019140 7001460	Fuel (Mud) Water (non potable)		
7012350 7019000	Water (potable) Well Logging Services		6,0
7019150	Mud Logging+geosteering	(21)	16,7
7019250 7019110	Stabilizers, Hole Openers, Underr Casing inspection/cleaning	eamers (DH rentals)	42,4
7019110 7016180	Drill pipe/collar inspection service Freight - truck	ès	
7001460 7001160	Water hauling and disposal (inclu Contract Services - Disposal/Non-		72,6 96,9
7001440	Vacuum Trucks	nazaruous waste	12,1
7000030 7000010	Contract Labor - general Contract Labor - Operations		
7001200 7019300	Contract Services - Facilities Well Services - Well Control Services	ces	
7019350 7290003	Well Services - Well/Wellhead Ser Rental Tools and Equipment (surf	rvices	12,1 14,3
7260001	Rig Equipment and Misc.	ace rentais)	115,0
7001110 7001120	Telecommunications Services Consulting Services		
7001400 7330002	Safety and Environmental Rental Buildings (trailers)		40,2
7019310 7011010	Coring (sidewalls & analysis) 8% Contingency & Taxes		268,09
	TOTAL DRILLING - INTANGIBLE		\$2,697,2
	TOTAL DRILLING COST		\$3,619,2
OMPLETION - TANGIBLE			
GL CODE		CRIPTION	ESTIMATED COST
7012580 7012040	Tubing Tubing Accessories (nipple, wireli	ne entry)	
7012550 7012560	Wellhead Equip Packers - Completion Equipment		15,0
	TOTAL COMPLETION - TANGIBLE		\$15,0
	TOTAL COMM ELTION - TANGIBLE		
OMPLETION - INTANGIBLE			
7001270 7290002	Location and Access (dress location Drilling Rig During Completion	on after rig move, set anchors)	12,5:
7019140	Mud Fluids & Services		
7019030 7019240	Coiled Tubing Services (3 runs) Snubbing Services		
7019270 7016350	Pulling/Swab Units Fuel (from drlg)		-
7019010 7019020	Casing Crew and Services Cement and Cementing Services		
7019080	Well Testing Services (flow hand		484,5
7390002 7019330	Fracturing Services Perforating		5,155,1 234,1
7019360 7001460	Wireline Services Water Hauling & Disposal (frac flu	uids)	362,7
7016180	Freight - Truck (haul pipe; drlg & o		
7200002	BOP Rental & Testing Rental Tools and Equipment (incl		
7290003 7290003	CT Downhole Rental Equipment (e. Bit, BHA)	58,2
	Contract Labor - general		44,7
7290003 7290003 7290003 7000030	Contract Labor - general Telecommunications Services		
729003 729003 729003 700030 7001110 7001400	Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services		
7290003 7290003 7290003 700030 7001110 7001400 7001120 7019300	Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals		176,2 152,2
729003 7290003 7290003 700030 7001110 7001400 7001120	Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services)	, frac tanks, lightplants)	176,2 152,2 8,5
7290003 7290003 7290003 7290003 700030 7001110 7001400 7001120 7019300 7016180 7260001 7330002	Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (w/o operator Rental Buildings (trailers)		176,2 152,2 8,5 227,7
7290003 7290003 7290003 700030 7001110 7001400 7001120 7019300 7016180 7260001	Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (w/o operator		117,7 176,2: 152,2: 8,5: 227,7:
7290003 7290003 7290003 7000030 7001110 7001400 7001120 7019300 7016180 7260001 7330002 7000030	Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (w/o operator Rental Buildings (trailers) Contract Labor - Pumping (pump-		176,2 152,2 8,5 227,7
7290003 7290003 7290003 7000030 7001110 7001400 7001120 7019300 7016180 7250001 7330002 7000030	Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (W/o operator Rental Buildings (trailers) Contract Labor - Pumping (pump-		176,2 152,2 8,5,5 227,7

SURFACE	EQUIPMENT	 TANGIBL

7012350		Misc. Piping, Fittings & Valves	130,155
7006640		Company Labor & Burden	
7000030		Contract Labor - General	141,355
7001110 7012410		Telecommunication equip (Telemetry) Line Pipe & Accessories	37,680
7012410		Miscellaneous Materials (containment system)	39,249
7008060		SCADA	12,417
7016180		Freight - truck	12,981
7001190		Contract Engineering	8,041
7012290		Metering and Instrumentation	220,258
7012290		I&E Materials	129,197
7012200		Gas Treating	
7012200		Dehydration	
7012010		Compressor	14,948
7012350		Power	
7012610		Vapor Recovery Unit	
7012440)	Separator & other pressure vessels	208,842
7012500)	Tanks	36,761
7012100		Heater Treater	108,649
7012640)	Flare & Accessories	15,782
7000010		Electrical Labor	71,389
7000010)	Mechanical Labor	154,377
7012480		Rod Pumping unit & Pad	
7012180		Pumping Unit Engine	-
7012350)	Electrical Power (electrical cooperative construction costs)	28,919
	TOTAL S	URFACE EQUIPMENT - TANGIBLE	\$1,371,000
	TOTAL	. SURFACE EQUIPMENT COST	\$\$
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	6,085
7019130		Kill Fluid	2,028
7019220)	Well Services & Rig	24,339_
	TOTAL A	RTIFICIAL 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	\$ 3,619,220
		TOTAL COMPLETIONS COST	\$ 7,291,709
		TOTAL SURFACE EQUIPMENT COST	\$ 1,371,000
		TOTAL ARTIFICIAL LIFT COST	\$ 431,000
		GRAND TOTAL COST	\$12,987,929
MARATHON OIL PERMIAN AUTHORITY FOR EXPENDIT DETAIL OF ESTIMATED WE	TURE		DATE 3/15/2023
Asset Team	PERMIA		
Field Lease/Facility		age/Wolfcamp	
Lease/ Facility	Decimus	Fed Com 704H	
EVERA EVERNIST INICIONAL	ure.		
EXTRA EXPENSE INSURAN			
	elect to be covered by	Operator's Extra Expense Insurance and pay my proportionate share	of the premium.
		spense Insurance covering costs of well control, clean up and redrilling as	
	estimated in Line item 0180-0		
1 1			
	**		- 12 - VC
	above, non-operating working	g interest owner elects to be covered by Operator's well control insurance.	
	above, non-operating working	g interest owner elects to be covered by Operator's well control insurance. Date:	
If neither box is checked a	above, non-operating working		
If neither box is checked a	above, non-operating working		
If neither box is checked a	above, non-operating working		
If neither box is checked a Company / Owner:	above, non-operating working		

AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS		COMPLETION	PREPARED BY COURT NELSON PREPARED BY KRISTEN DRAIN
			PREPARED BY HARSHA DISSANAYAK PREPARED BY CRAIG PLANTE
Asset Team	PERMIAN		
ield ease/Facility	Purple Sage/Wolfcamp Decimus Fed Com 801H	WILDCATDEVELOPMENT	EXPLORATION RECOMPLETION
ocation Prospect	SW/4 of Section 6-23S-28E Malaga	X EXPLOITATION	WORKOVER
st Total Depth	20,260 Est Drilling Days	24.5 Est Con	npletion Days 11
OCATION COST - INTANGIBLE			
GL CODE	DECC	CRIPTION	ESTIMATED COS
7001270 7001250	Location and Access	KIFTION	165,0
7001250	Land Broker Fees and Services		
	TOTAL LOCATION COST - INTANGIBLE		\$275,
RILLING COST - TANGIBLE			
7001270 7012050	Conductor Pipe Surface Casing		36,6 24,9
7012050 7012050	Intermediate Casing 1 Intermediate Casing 2		76,3 314,1
7012050 7012050	Production Casing Drlg Liner Hanger, Tieback Eq & Co	an Assassavias	549,0 36,6
7012550	Drilling Wellhead Equipment	sg Accessories	35,2
7012040 7290003	Casing & Tubing Access Miscellaneous MRO Materials		
	TOTAL DRILLING - TANGIBLE		\$1,175,
RILLING COST - INTANGIBLE			
7290002	Drilling Rig Mob/Demob		95,4
7290002 7019040	Drilling Rig - day work/footage Directional Drilling Services		792,6
7019020 7019020	Cement and Cementing Servic Su		22,0
7019020	Cement and Cementing Servic Int Cement and Cementing Servic Int	termediate 2	36,£
7019020 7019140	Cement and Cementing Servic Pro Mud Fluids & Services	oduction	<u>124,7</u> 102,0
7012310 7012020	Solids Control equipment Bits		71,3
7019010	Casing Crew and Services		73,3
7016350 7019140	Fuel (Rig) Fuel (Mud)		
7001460 7012350	Water (non potable) Water (potable)		36,6 7,3
7019000 7019150	Well Logging Services Mud Logging+geosteering		23,8
7019250	Stabilizers, Hole Openers, Underr	eamers (DH rentals)	51,3
7019110 7019110	Casing inspection/cleaning Drill pipe/collar inspection service	es	
7016180 7001460	Freight - truck Water hauling and disposal (inclu	des soil farming)	
7001160 7001440	Contract Services - Disposal/Non- Vacuum Trucks	Hazardous Waste	117,4
7000030 7000010	Contract Labor - general Contract Labor - Operations		44,0
7001200	Contract Services - Facilities		14,6
7019300 7019350	Well Services - Well Control Services - Well/Wellhead Services - Well/W		33,5
7290003 7260001	Rental Tools and Equipment (surf Rig Equipment and Misc.	ace rentals)	19,8 158,5
7001110 7001120	Telecommunications Services Consulting Services		7,3
7001400	Safety and Environmental		55,4
7330002 7019310	Rental Buildings (trailers) Coring (sidewalls & analysis)		
7011010	8% Contingency & Taxes		332,3
	TOTAL DRILLING - INTANGIBLE		\$3,310,
	TOTAL DRILLING COST		\$4,486,2
OMPLETION - TANGIBLE			
GL CODE	DECC	CRIPTION	ESTIMATED COS
7012580	Tubing		ESTIMATED COS
7012040 7012550	Tubing Accessories (nipple, wireli Wellhead Equip	ne entry)	
7012560	Packers - Completion Equipment		
	TOTAL COMPLETION - TANGIBLE		\$15,
OMPLETION - INTANGIBLE			
7001270	Location and Access (dress location	on after rig move, set anchors)	12,5
7290002 7019140	Drilling Rig During Completion Mud Fluids & Services		
7019030 7019240	Coiled Tubing Services (3 runs) Snubbing Services		197,0
7019270 7016350	Pulling/Swab Units Fuel (from drlg)		
7019010	Casing Crew and Services		
7019020 7019080	Cement and Cementing Services Well Testing Services (flow hand 8	& equip)	414,9
7390002 7019330	Fracturing Services Perforating		
7019360 7001460	Wireline Services Water Hauling & Disposal (frac flu	uids)	310,9
7016180 7290003	Freight - Truck (haul pipe; drlg & o BOP Rental & Testing		
7290003	Rental Tools and Equipment (incl		
7290003 7290003	CT Downhole Rental Equipment (i	е. ыт, вна)	58,2
7000030 7001110	Telecommunications Services Safety and Environmental		44,7
7001400 7001120	Consulting Services Zipper Manifold		117,7
7019300	Frack Stack Rentals		152,2
7016180 7260001	Freight (Transportation Services) Equipment Rental (w/o operator	, frac tanks, lightplants)	
7330002 7000030	Rental Buildings (trailers) Contract Labor - Pumping (pump-		44,7
7011010	8% Contingency & Taxes		
	TOTAL COMPLETION - INTANGIBLE		\$7,155,

SURFACE EQUIPMENT - TANGIBLE

7012350		
	Misc. Piping, Fittings & Valves	130,155
7006640	Company Labor & Burden	
7000030	Contract Labor - General	141,355
7001110 7012410	Telecommunication equip (Telemetry) Line Pipe & Accessories	37,680
7012270	Miscellaneous Materials (containment system)	39,249
7008060	SCADA	12,417
7016180	Freight - truck	12,981
7001190	Contract Engineering	
7012290	Metering and Instrumentation	220,258
7012290	I&E Materials	129,197
7012200	Gas Treating	<u> </u>
7012200	<u>Dehydration</u>	
7012010	Compressor	14,948
7012350	Power	
7012610	Vapor Recovery Unit	
7012440	Separator & other pressure vessels	208,842
7012500	Tanks	36,761
7012100	Heater Treater	108,649
7012640 7000010	Flare & Accessories Electrical Labor	
7000010	Mechanical Labor	154,377
7012480	Rod Pumping unit & Pad	
7012180	Pumping Unit Engine	
7012350	Electrical Power (electrical cooperative construction costs)	28,919
	TOTAL SURFACE EQUIPMENT - TANGIBLE	\$1,371,000
	TOTAL SURFACE EQUIPMENT COST	\$ 1,371,000
TIFICIAL 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	
7012550 7012580	Production Tree Tubing	
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 CO	OSTS TOTAL COST
	TOTAL LOCATION COST	\$ 275,000
	TOTAL DRILLING COST	
		\$ 4,486,200
	TOTAL COMPLETIONS COST	\$ 4,486,200 \$ 7,170,274
		\$ 4,486,200 \$ 7,170,274 \$ 1,371,000
	TOTAL COMPLETIONS COST	\$ 4,486,200 \$ 7,170,274
	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000
	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COSTS	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COSTS et Team	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COSTS et Team d	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COSTS et Team d	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COSTS Set Team Id see/Facility	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE FAIL OF ESTIMATED WELL COSTS Set Team Id see/Facility	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
THORITY FOR EXPENDITURE TAIL OF ESTIMATED WELL COSTS et Team d se/Facility CTRA EXPENSE INSURANCE	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COSTS) et Team d see/Facility CTRA EXPENSE INSURANCE I elect to be	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COSTS) et Team d ses/Facility CTRA EXPENSE INSURANCE I elect to be Operator has s estimated in L	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H e covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as inse tem 0180-0185.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS et Team d ses/Facility CTRA EXPENSE INSURANCE I elect to be Operator has s estimated in L	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H Executed Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance overing costs of well control, clean up and redrilling as	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COSTS) et Team d ses/Facility CTRA EXPENSE INSURANCE I elect to be Operator has s estimated in L	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H e covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as inse tem 0180-0185.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
Operator has a estimated in Li elect to pu	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H e covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as inse tem 0180-0185.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE ITALL OF ESTIMATED WELL COSTS set Team id ses/Facility I elect to be Operator has 3: Lect to pu neither box is checked above, non-op	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ine item 0180-0185. urchase my own well control insurance policy.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE ITALL OF ESTIMATED WELL COSTS Set Team Id Ses/Facility KTRA EXPENSE INSURANCE I elect to be Operator has a sestimated in L I elect to pu	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H e covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as inte item 0180-0185. urchase my own well control insurance policy.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COSTS) et Team d ses/Facility CTRA EXPENSE INSURANCE I elect to be Operator has as estimated in L L elect to pu neither box is checked above, non-op	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ine item 0180-0185. urchase my own well control insurance policy.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COSTS) et Team d ses/Facility CTRA EXPENSE INSURANCE I elect to be Operator has as estimated in L L elect to pu neither box is checked above, non-op	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ine item 0180-0185. urchase my own well control insurance policy.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE (ALL OF ESTIMATED WELL COSTS) et Team d ses/Facility CTRA EXPENSE INSURANCE I elect to be Operator has as estimated in L L elect to pu neither box is checked above, non-op	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ine item 0180-0185. urchase my own well control insurance policy.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS et Team d see/Facility CTRA EXPENSE INSURANCE lelect to be Operator has a estimated in L lelect to pu neither box is checked above, non-op	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ine item 0180-0185. urchase my own well control insurance policy.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023
THORITY FOR EXPENDITURE ALL OF ESTIMATED WELL COSTS et Team d see/Facility TERA EXPENSE INSURANCE lelect to be Operator has a estimated in L lelect to pu neither box is checked above, non-op	TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 801H covered by Operator's Extra Expense Insurance and pay my proportionate secured Extra Expense Insurance covering costs of well control, clean up and redrilling as ine item 0180-0185. urchase my own well control insurance policy.	\$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,733,474 DATE 3/15/2023

	CONFECTION FREFARED	ATE 3/15/20 D BY COURT NELSON D BY KRISTEN DRAIN
		BY HARSHA DISSANAYAKE
Asset Team	PERMIAN	
ield .ease/Facility	Purple Sage/Wolfcamp WILDCAT Decimus Fed Com 802H DEVELOPMENT	EXPLORATION RECOMPLETION
ocation	SW/4 of Section 6-23S-28E X EXPLOITATION	WORKOVER
	Malaga	
est Total Depth	Est Drilling DaysEst Completion D	ays11
OCATION COST - INTANGIBLE		
GL CODE 7001270	DESCRIPTION Location and Access	ESTIMATED COST 165,00
7001250	Land Broker Fees and Services	110,00
	TOTAL LOCATION COST - INTANGIBLE	\$275,0
DRILLING COST - TANGIBLE		
7001270	Conductor Pipe	36,69
7012050 7012050	Surface Casing Intermediate Casing 1	24,99 76,33
7012050	Intermediate Casing 2	314,13
7012050 7012050	Production Casing Drlg Liner Hanger, Tieback Eq & Csg Accessories	549,00 36,69
7012550 7012040	Drilling Wellhead Equipment Casing & Tubing Access	35,23 95,43
7290003	Miscellaneous MRO Materials	7,34
	TOTAL DRILLING - TANGIBLE	\$1,175,8
PRILLING COST - INTANGIBLE		
7290002	Drilling Rig Mob/Demob	95,4
7290002 7019040	Drilling Rig - day work/footage Directional Drilling Services	792,68 276,8
7019020 7019020	Cement and Cementing Servic Surface Cement and Cementing Servic Intermediate 1	22,03
7019020	Cement and Cementing Servic Intermediate 2	36,69 66,09
7019020 7019140	Cement and Cementing Servic Production Mud Fluids & Services	124,7 102,0
7012310 7012020	Solids Control equipment Bits	71,3 198,1
7019010 7016350	Casing Crew and Services Fuel (Rig)	73,3 122,8
7019140	Fuel (Mud)	44,0
7001460 7012350	Water (non potable) Water (potable)	36,69 7,34
7019000 7019150	Well Logging Services Mud Logging+geosteering	23,89
7019250 7019110	Stabilizers, Hole Openers, Underreamers (DH rentals) Casing inspection/cleaning	51,3° 22,0°
7019110 7016180	Drill pipe/collar inspection services Freight - truck	14,67 36,69
7001460	Water hauling and disposal (includes soil farming)	88,0
7001160 7001440	Contract Services - Disposal/Non-Hazardous Waste Vacuum Trucks	117,43
7000030 7000010	Contract Labor - general Contract Labor - Operations	44,03
7001200 7019300	Contract Services - Facilities Well Services - Well Control Services	14,63 33,53
7019350 7290003	Well Services - Well/Wellhead Services	14,67 19,81
7260001	Rental Tools and Equipment (surface rentals) Rig Equipment and Misc.	158,53
7001110 7001120	Telecommunications Services Consulting Services	7,34 166,40
7001400 7330002	Safety and Environmental Rental Buildings (trailers)	55,48 19,8:
7019310 7011010	Coring (sidewalls & analysis) 8% Contingency & Taxes	332,31
	TOTAL DRILLING - INTANGIBLE	\$3,310,3
	TOTAL DRILLING - INTANGIBLE	\$3,310,3
	TOTAL DRILLING - INTANGIBLE TOTAL DRILLING COST	\$4,486,20
OMPLETION - TANGIBLE		
COMPLETION - TANGIBLE GL CODE		
	TOTAL DRILLING COST DESCRIPTION Tubing	\$4,486,20
GL CODE 7012580 7012040 7012550	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip	\$4,486,20
GL CODE 7012580 7012040	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment	\$4,486,20 ESTIMATED COST
GL CODE 7012580 7012040 7012550 7012560	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip	\$4,486,20 ESTIMATED COST
GL CODE 7012580 7012040 7012550 7012560	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment	\$4,486,20
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors)	\$4,486,20 ESTIMATED COST 15,00 \$15,0
GL CODE 7012580 7012040 7012550 7012560 *** **OMPLETION - INTANGIBLE 7001270 7290002 7019140	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services	\$4,486,20 ESTIMATED COST 15,0 \$15,0
GL CODE 7012580 7012540 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services	\$4,486,20 ESTIMATED COST 15,0 \$15,0
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs)	\$4,486,20 ESTIMATED COST 15,0 \$15,0
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services	\$4,486,20 ESTIMATED COST 15,0 \$15,0
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019240 7019240 7019240 7019210 7019010 7019010 7019020 7019080	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Uell Testing Services Well Testing Services Well Testing Services Union Completed to the complete of the co	\$4,486,2 ESTIMATED COST 15,0 \$15,1 12,5 197,0 414,9
GL CODE 7012580 7012040 7012550 7012560 **OMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 7390002 7019930	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating	\$4,486,20 ESTIMATED COST 15,0 \$15,4 12,5 197,0 414,9 5,155,1
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019020 7019020 7019020 7019030 7390002 7019330 7019360 7019360 7001460	TUDING Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids)	\$4,486,20 ESTIMATED COST 15,0 \$15,1 414,9 5,155,1 234,1
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019240 7019240 7019240 7019900 7019010 7019010 7019020 7019080 7390002 7019330 7019360	TOTAL DRILLING COST DESCRIPTION Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services (Flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drlg & compl) BOP Rental & Testing BOP Rental & Testing	\$4,486,20 ESTIMATED COST 15,0 \$15,1 414,9 5,155,1 234,1
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019020 7019080 7390002 701930 701930 701960 701960 7016180 7016180 7016180 7290003 7290003	TUDING Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compi) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant,hydra-walk)	\$4,486,20 ESTIMATED COST 15,0 \$15,0 12,5 197,0 414,9 5,155,1 234,1 310,9
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019230 7019240 7019270 7016350 7019010 7019020 7019930 7019020 7019330 7019040 7019680 7390002 7019330 7019140 7016180 7016180 7290003 7290003 7290003	TUDING Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services (flow hand & equip) Fracturing Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compl) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (ie. Bit, BHA) Contract Labor - general	\$4,486,20 ESTIMATED COST 15,0 \$15,0 12,5: 197,0 414,9: 5,155,1 234,1 310,9:
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 701930 701930 701930 701930 7290003 7290003 7290003 7290003 7290003 7200030 700110	TUDING Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Well Testing Services Perforating Wireline Services Perforating Roman Middle & Geomphil BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant, hydra-walk) CT Downhole Rental Equipment (incl Bit, BHA) Contract Labor - general Telecommunications Services Safety and Environmental	\$4,486,20 ESTIMATED COST 15,00 \$15,6 12,5 197,0 414,9 5,155,1 234,1 310,9 58,2
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019020 7019080 7390002 7019330 7019360 701968 7290003 7290003 7290003 7290003 7290003 7000030 7001110 7001400 7001120	Tubing Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Well Testing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compl) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl Bit, BHA) Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services	\$4,486,20 ESTIMATED COST 15,0 \$15,1 12,5 197,0 414,9 5,155,1 234,1 310,9 58,2 44,7 117,7 176,2
7012580 7012040 7012550 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019240 7019270 7016350 7019010 7019020 7019030 7019030 7019030 7019030 7019030 7390002 7019330 7019330 7019360 7016180 7290003 7290003 7290003 7290003 7290003 70001400	TUDING Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compl) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (ie. Bit, BHA) Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services	\$4,486,20 ESTIMATED COST 15,00 \$15,6 12,5 197,0 414,9 5,155,1 234,1 310,9 58,2 44,7 117,7 176,2 112,5
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 701930 7010110 7001120 701130 701130 701130 701130 701130	Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services (3 runs) Snubbing Services (9 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compl) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl drig; lightplant,hydra-walk) Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (w/o operator, frac tanks, lightplants)	\$4,486,20 ESTIMATED COST
GL CODE 7012580 7012040 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 701930 7019240 7019270 7016350 7019010 7019020 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019003 7290003 7290003 7290003 7000110 7001100 7001120 7019300 7016180 7260001 730002	TUbing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compl) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl Bit, BHA) Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (w/o operator, frac tanks, lightplants) Rental Buildings (trailers) Contract Labor - Pumping (pump-down pumps)	\$4,486,20 ESTIMATED COST 15,00 \$15,0 12,5: 197,0 414,9 5,155,1: 234,1: 310,9: 58,2: 44,7i 117,7: 176,2: 152,2t 8,5;
GL CODE 7012580 7012040 7012550 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019080 7390002 7019330 7019300 7019160 7016180 7290003 7290003 7290003 7290003 7290003 7290003 7001100 7001100 7001100 7001100 7001100 7001100 7001100 7001100 7001100 7001100 7001100 7016180 7290003 7290003	Tubing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services (flow hand & equip) Fracturing Services (Flow hand & equip) Fracturing Services (Town hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compil) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant, hydra-walk) CT Downhole Rental Equipment (incl drig; lightplant, hydra-walk) Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (w/o operator, frac tanks, lightplants) Rental Buildings (trailers) Contract Labor - Pumping (pump-down pumps) 8% Contingency & Taxes	\$4,486,20 ESTIMATED COST 15,0 \$15,0 \$15,0 12,5 197,0 414,9 5,155,1 234,1 310,9 58,2 44,7: 117,7 176,2 152,2 8,5; 227,7: 44,7:
GL CODE 7012580 7012040 7012550 7012550 7012560 COMPLETION - INTANGIBLE 7001270 7290002 7019140 7019030 7019240 7019270 7016350 7019010 7019020 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 7019030 70190003 7290003 7290003 7290003 7000110 7001100 7001120 7019300 701110 7019300 701110 7019300 701110 7011400 7001120 7019300 7016180 7250001 7300002	TUbing Tubing Accessories (nipple, wireline entry) Wellhead Equip Packers - Completion Equipment TOTAL COMPLETION - TANGIBLE Location and Access (dress location after rig move, set anchors) Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs) Snubbing Services Pulling/Swab Units Fuel (from drig) Casing Crew and Services Cement and Cementing Services Well Testing Services (flow hand & equip) Fracturing Services Perforating Wireline Services Water Hauling & Disposal (frac fluids) Freight - Truck (haul pipe; drig & compl) BOP Rental & Testing Rental Tools and Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl drig; lightplant,hydra-walk) CT Downhole Rental Equipment (incl Bit, BHA) Contract Labor - general Telecommunications Services Safety and Environmental Consulting Services Zipper Manifold Frack Stack Rentals Freight (Transportation Services) Equipment Rental (w/o operator, frac tanks, lightplants) Rental Buildings (trailers) Contract Labor - Pumping (pump-down pumps)	\$4,486,20 ESTIMATED COST 15,00 \$15,0 \$15,0 12,5: 197,0 414,9 5,155,1: 234,1: 310,9: 58,2: 44,7! 117,7: 176,2: 152,2(2,8,5): 227,7!

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RFACE EQUIPMENT - TANGIBLE		
7012350	Misc. Piping, Fittings & Valves	130,155
7006640 7000030	Company Labor & Burden	141,355
700030	Contract Labor - General Telecommunication equip (Telemetry)	141,355
7012410	Line Pipe & Accessories	37,680
7012270	Miscellaneous Materials (containment system)	39,249
7008060	SCADA	12,417
7016180	Freight - truck	12,981
7001190	Contract Engineering	8,041
7012290	Metering and Instrumentation	220,258
7012290	I&E Materials	129,197
7012200	Gas Treating	
7012200	Dehydration Garages and Company of the Company of t	- 44.040
7012010 7012350	Compressor	14,948
7012610	Power Vapor Recovery Unit	
7012440	Separator & other pressure vessels	208,842
7012500	Tanks	36,761
7012100	Heater Treater	108,649
7012640	Flare & Accessories	15,782
7000010	Electrical Labor	71,389
7000010	Mechanical Labor	154,377
7012480	Rod Pumping unit & Pad	
7012180	Pumping Unit Engine	
7012350	Electrical Power (electrical cooperative construction costs)	28,919
	TOTAL SURFACE EQUIPMENT - TANGIBLE	\$1,371,000
RTIFICIAL LIFT	TOTAL SURFACE EQUIPMENT COST	\$ 1,371,000
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 Tubing	5,071 106,482
7012580 7016190	Tubing 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
	SHIMMARY OF ESTIMATED DRILLING WELL COSTS	TOTAL COST
	SUMMARY OF ESTIMATED DRILLING WELL COSTS	TOTAL COST
	SUMMARY OF ESTIMATED DRILLING WELL COSTS TOTAL LOCATION COST	* TOTAL COST \$ 275,000
	TOTAL LOCATION COST	\$ 275,000
	TOTAL LOCATION COST TOTAL DRILLING COST	\$ 275,000 \$ 4,486,200
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274
	TOTAL LOCATION COST TOTAL DRILLING COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000
JTHORITY FOR EXPENDITURE	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
IARATHON OIL PERMIAN LLC UTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS sset Team	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
JTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS	TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000

set Team eld ase/Facility	PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 802H			
XTRA EXPENSE INSURANCE				
Opera estim	ct to be covered by Operator's Extra Expense Insi stor has secured Extra Expense Insurance covering costs of ated in Line item 0180-0185. ct to purchase my own well control insurance po	well control, clean up and redrilling as	re of the premium.	
f neither box is checked above	, non-operating working interest owner elects to be cover	ed by Operator's well control insurance.		\Box
Company / Owner:		Date:		_
Signature:				
Joint Owner Name:				

MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE			DRILL	DATE ING & LOCATION PREPARED BY	COURT NELSON
DETAIL OF ESTIMATED WELL COSTS				COMPLETION PREPARED BY FACILITIES PREPARED BY	
				ARTIFICIAL LIFT PREPARED BY	CRAIG PLANTE
Asset Team Field	PERMIAN				5/5/ 65 4 5/6/
ease/Facility	Purple Sage/Wolfe Decimus Fed Com	803H			_EXPLORATION _RECOMPLETION
ocation Prospect	NW/4 of Section 7 Malaga	-23S-28E	X	_EXPLOITATION	_ WORKOVER
est Total Depth	20,260	Est Drilling Days	24.5	Est Completion Days	. 11
OCATION COST - INTANGIBLE					
GL CODE 7001270	Location	DESC 1 and Access	RIPTION		ESTIMATED COST
7001250		oker Fees and Services			110,0
	TOTAL LOCATION	COST - INTANGIBLE			\$275,
DRILLING COST - TANGIBLE					
7001270 7012050	Conduct Surface				36,6 24,9
7012050 7012050		diate Casing 1			76,3 314,1
7012050 7012050	Product	ion Casing er Hanger, Tieback Eq & C	sø Accessories		549,0 36,6
7012550	Drilling	Wellhead Equipment	og Accessories		35,2
7012040 7290003		& Tubing Access neous MRO Materials			95,4 7,3
	TOTAL DRILLING -	TANGIBLE			\$1,175,
DULING COCT INTANIGIDIS					
DRILLING COST - INTANGIBLE					
7290002 7290002		Rig Mob/Demob		·	95,4 792,6
7019040	Directio	Rig - day work/footage nal Drilling Services			276,8
7019020 7019020		and Cementing Servic Sur and Cementing Servic Int			22,0 36,6
7019020 7019020	Cement	and Cementing Servic Int	ermediate 2		66,0 124,7
7019140	Mud Flu	ids & Services			102,0
7012310 7012020	Bits	ontrol equipment			71,3 198,1
7019010 7016350	Casing C	Crew and Services g)			73,3 122,8
7019140 7001460	Fuel (M				44,0 36,6
7012350	Water (potable)			7,3
7019000 7019150		gging Services gging+geosteering			23,8
7019250 7019110		ers, Hole Openers, Underronspection/cleaning	eamers (DH rent	als)	51,3 22,0
7019110	Drill pip	e/collar inspection service	es		14,6
7016180 7001460		auling and disposal (inclu			36,6
7001160 7001440		t Services - Disposal/Non- Trucks	Hazardous Wast	e	117,4
7000030 7000010		t Labor - general			44,0
7001200	Contrac	t Services - Facilities			14,6
7019300 7019350		rvices - Well Control Servi rvices - Well/Wellhead Ser			33,5
7290003 7260001		Tools and Equipment (surfipment and Misc.	ace rentals)		19,8 158,5
7001110	Telecon	nmunications Services			7,3
7001120 7001400	Safety a	ing Services ind Environmental			166,4 55,4
7330002 7019310		Buildings (trailers) sidewalls & analysis)			19,8
7011010		tingency & Taxes			332,3
	TOTAL DRILLING -	INTANGIBLE			\$3,310,
	TOTAL DRILLI	NG COST			\$4,486,2
COMPLETION - TANGIBLE					
CI CODE		255	DIDTION		ECTIMATED COC
GL CODE 7012580	Tubing	DESC	RIPTION		ESTIMATED COS
7012040 7012550		Accessories (nipple, wireli ad Equip	ne entry)		15,0
7012560		- Completion Equipment			
	TOTAL COMPLETION	ON - TANGIBLE			\$15,
COMPLETION - INTANGIBLE					
				ant and the N	
7001270 7290002		n and Access (dress location Rig During Completion	n atter rig move	, set anchors)	12,5
7019140 7019030	Mud Flu	uids & Services Tubing Services (3 runs)			197,0
7019240	Snubbir	ng Services			
7019270 7016350	Fuel (fro	Swab Units om drlg)			
7019010 7019020		Crew and Services and Cementing Services			
7019080 7390002	Well Te	sting Services (flow hand 8 ng Services	& equip)		414,9 5,155,1
7019330	Perfora	ting			234,1
7019360 7001460	Water H	e Services Hauling & Disposal (frac flu			310,9
7016180 7290003	Freight	- Truck (haul pipe; drlg & ontal & Testing			
7290003	Rental 1	Tools and Equipment (incl		hydra-walk)	
7290003	Contrac	nhole Rental Equipment (i t Labor - general	e. DI(, BHA)		58,2
7290003		nmunications Services and Environmental			44,7
7290003 7000030 7001110		ing Services			117,7 176,2
700030 7001110 7001400		√lanifold			152,2
700030 7001110 7001400 7001120 7019300	Zipper I Frack St	ack Rentals			8,5
7000030 7001110 7001400 7001120 7019300 7016180 7260001	Zipper I Frack St Freight Equipm	ack Rentals (Transportation Services) ent Rental (w/o operator	, frac tanks, light	plants)	227,7
700030 7001110 7001400 7001120 7019300 7016180	Zipper N Frack St Freight Equipm Rental B	ack Rentals (Transportation Services) ent Rental (w/o operator Buildings (trailers)		plants)	44,7
700030 7001110 7001400 7001120 7019300 7016180 7260001 7330002	Zipper N Frack St Freight Equipm Rental B Contrac	ack Rentals (Transportation Services) ent Rental (w/o operator		plants)	
700030 7001110 7001400 7001120 7019300 7016180 7260001 7330002 7000030	Zipper N Frack St Freight Equipm Rental B Contrac	ack Rentals (Transportation Services) ent Rental (w/o operator, suildings (trailers) t Labor - Pumping (pump- tingency & Taxes		plants)	
700030 7001110 7001400 7001120 7019300 7016180 7260001 7330002 7000030	Zipper I Frack St Freight Equipm Renata Contrata 8% Cont	ack Rentals (Transportation Services) ent Rental (w/o operator, suildings (trailers) t Labor - Pumping (pump- tingency & Taxes		plants)	44,7

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	130,155
7006640	Company Labor & Burden	-
7000030	Contract Labor - General	141,355
7001110	Telecommunication equip (Telemetry)	<u> </u>
7012410	Line Pipe & Accessories	37,680
7012270	Miscellaneous Materials (containment system)	39,249
7008060	SCADA	12,417
7016180	Freight - truck	12,981
7001190	Contract Engineering	8,041
7012290	Metering and Instrumentation	220,258
7012290	I&E Materials	129,197
7012200	Gas Treating	-
7012200	Dehydration Company	
7012010 7012350	Compressor Power	14,948
7012610	Vapor Recovery Unit	<u>-</u> _
7012440	Separator & other pressure vessels	208,842
7012500	Tanks	36,761
7012100	Heater Treater	108,649
7012640	Flare & Accessories	15,782
7000010	Electrical Labor	71,389
7000010	Mechanical Labor	154,377
7012480	Rod Pumping unit & Pad	-
7012180	Pumping Unit Engine	
7012350	Electrical Power (electrical cooperative construction costs)	28,919
	TOTAL SURFACE EQUIPMENT - TANGIBLE	\$1,371,000
	TOTAL SURFACE EQUIPMENT COST	\$ 1,371,000
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	6,085
7019130	Kill Fluid	2,028
7019220	Well Services & Rig	24,339
	TOTAL ARTIFICIAL LIFT	431,000
	TOTAL ARTIFICIAL LIFT	\$ 431,000
	TOTAL ARTIFICIAL LIFT TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST	\$ 431,000 \$ 431,000 TS TOTAL COST
	TOTAL ARTIFICIAL LIFT TOTAL ARTIFICIAL LIFT COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000
	TOTAL ARTIFICIAL LIFT TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000
MARATHON OIL PERMIAN LLC	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
MARATHON OIL PERMIAN LLC UTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS ISSET Team	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
IARATHON OIL PERMIAN LLC UTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS sset Team leld	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
IARATHON OIL PERMIAN LLC UTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS sset Team leld	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE LETAIL OF ESTIMATED WELL COSTS LISSET TEAM	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE JETAIL OF ESTIMATED WELL COSTS LISSET Team Leid Leid Lease/Facility EXTRA EXPENSE INSURANCE	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 803H	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC RUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS LISSET Team leid lease/Facility EXTRA EXPENSE INSURANCE	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 803H	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS ASSET Team leid ease/Facility EXTRA EXPENSE INSURANCE leiect to be coordinated to be considered to be considered to be coordinated to be considered to	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 803H	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC RUTHORITY FOR EXPENDITURE BETAIL OF ESTIMATED WELL COSTS LOSSES Team leid ease/Facility EXTRA EXPENSE INSURANCE lelect to be cooperator has secuestimated in Line compared to the cooperator has secuestimated in Line	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 803H	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS LOSSET Team leid ease/Facility EXTRA EXPENSE INSURANCE lelect to be co Operator has secuestimated in Line lelect to purch	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 803H Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC RUTHORITY FOR EXPENDITURE BETAIL OF ESTIMATED WELL COSTS asset Team leid ease/Facility EXTRA EXPENSE INSURANCE lelect to be co Operator has secue lefect to purch	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 803H Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS LOSSET Team leid ease/Facility EXTRA EXPENSE INSURANCE lelect to be co Operator has secuestimated in Line lelect to purch	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 803H Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC UTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS sset Team leid ease/Facility EXTRA EXPENSE INSURANCE lefect to be co Operator has secue lefect to purch	SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST GRAND TOTAL COST Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185. Name of Working interest owner elects to be covered by Operator's well control insurance.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC UTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS sset Team ield ease/Facility EXTRA EXPENSE INSURANCE lelect to be co Operator has secu estimated in Line lelect to purch	SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST GRAND TOTAL COST Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185. Name of Working interest owner elects to be covered by Operator's well control insurance.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC UTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS sset Team ield ease/Facility EXTRA EXPENSE INSURANCE lelect to be co Operator has secu estimated in Line lelect to purch	SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST GRAND TOTAL COST Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185. Name of Working interest owner elects to be covered by Operator's well control insurance.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
MARATHON OIL PERMIAN LLC LUTHORITY FOR EXPENDITURE ETAIL OF ESTIMATED WELL COSTS ASSET Team leid ease/Facility EXTRA EXPENSE INSURANCE lefect to be co Operator has secue lefect to purch	SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST GRAND TOTAL COST Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185. Name of Working interest owner elects to be covered by Operator's well control insurance.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023
WARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS Asset Team ield ease/Facility EXTRA EXPENSE INSURANCE lelect to be co Operator has secu estimated in Line lelect to purch If neither box is checked above, non-operat Company / Owner: Signature:	SUMMARY OF ESTIMATED DRILLING WELL COST TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST GRAND TOTAL COST Vered by Operator's Extra Expense Insurance and pay my proportionate shared Extra Expense Insurance covering costs of well control, clean up and redrilling as item 0180-0185. Name of Working interest owner elects to be covered by Operator's well control insurance.	\$ 431,000 \$ 431,000 TS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 DATE 3/15/2023

17

MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL COSTS 3/15/2023 DRILLING & LOCATION PREPARED BY COURT NELSON COMPLETION PREPARED BY KRISTEN DRAIN
FACILITIES PREPARED BY HARSHA DISSANAYAKE ARTIFICIAL LIFT PREPARED BY CRAIG PLANTE Asset Team Field Purple Sage/Wolfcamp Decimus Fed Com 804H Lease/Facility DEVELOPMENT
X EXPLOITATION NE/4 of Section 8-23S-28E Prospect **Est Total Depth** 20,410 Est Drilling Days 24.5 **Est Completion Days** LOCATION COST - INTANGIBLE GL CODE DESCRIPTION **ESTIMATED COST** Location and Access
Land Broker Fees and Service TOTAL LOCATION COST - INTANGIBLE \$275,000 DRILLING COST - TANGIBLE 7001270 Conductor Pipe
Surface Casing
Intermediate Casing 1
Intermediate Casing 2
Production Casing
Drig Liner Hanger, Tieback Eq & Csg Accessories
Drilling Wellhead Equipment
Casing & Tubing Access 36,698 24,955 76,333 314,138 549,008 36,698 35,230 95,416 7012050 Miscellaneous MRO Materials TOTAL DRILLING - TANGIBLE \$1,175,816 DRILLING COST - INTANGIBLE 7290002 Drilling Rig Mob/Demok 95,416 Drilling Rig Mob/Demob
Drilling Rig - day work/footage
Directional Drilling Services
Cement and Cementing Servic Surface
Cement and Cementing Servic Intermediate 1
Cement and Cementing Servic Intermediate 2
Cement and Cementing Servic Production
Mud Fluids & Services
Solids Control equipment
Bits
Casing Crew and Services 792,685 276,853 22,019 36,698 66,057 124,774 102,021 71,342 198,171 73,397 122,866 44,038 7290002 7019040 7019020 7019020 7019020 7019020 7019140 7012310 7012020 Bits
Casing Crew and Services
Fuel (Rig)
Fuel (Mud)
Water (non potable)
Water (potable)
Well Logging Services 7019010 7016350 7019140 36,698 7,340 Mud Logging+geosteering 7019150 23,891 Stabilizers, Hole Openers, Underreamers (DH rentals)
Casing inspection/cleaning 7019250 51,378 22,019 7019110 14,679 36,698 88,076 117,435 Drill pipe/collar inspection services Freight - truck
Water hauling and disposal (includes soil farming)
Contract Services - Disposal/Non-Hazardous Waste 7016180 Vacuum Trucks
Contract Labor - general
Contract Labor - Operations
Contract Labor - Operations
Contract Services - Facilities
Well Services - Well Control Services
Well Services - Well Wellhead Services
Rental Tools and Equipment (surface rentals)
Rig Equipment and Misc.
Telecommunications Services
Consulting Services
Safety and Environmental
Rental Buildings (trailers)
Coring (sidewalls & analysis)
8% Contingency & Taxes 7001440 Vacuum Trucks 14,679 7000030 44,038 7000010 7001200 7019300 7019350 7290003 7260001 7001110 7001120 7001400 7330002 14,679 33,579 14,679 19,817 158,537 7,340 166,464 55,488 19,817 332,311 **TOTAL DRILLING - INTANGIBLE** \$3,310,384 TOTAL DRILLING COST \$4,486,200 COMPLETION - TANGIBLE Tubing Accessories (nipple, wireline entry) 15,000 Wellhead Equip Packers - Complet TOTAL COMPLETION - TANGIBLE \$15,000 COMPLETION - INTANGIBLE 7001270 Location and Access (dress location after rig move, set anchors) 12,539 7290002 7019140 Drilling Rig During Completion Mud Fluids & Services Coiled Tubing Services (3 runs)
Snubbing Services 197,042 Pulling/Swab Units 7016350 7019010 7019020 7019080 7390002 7019330 7019360 Fuel (from drlg)
Casing Crew and Services
Cement and Cementing Services
Well Testing Services (flow hand & equip) Fracturing Services 5,155,178 234,172 Perforating Wireline Services 310,937 Water Hauling & Disposal (frac fluids) 7016180 Freight - Truck (haul pipe; drlg & compl) BOP Rental & Testing Rental Tools and Equipment (incl drlg; lightplant,hydra-walk)
CT Downhole Rental Equipment (ie. Bit, BHA) 58,217 Contract Labor - general 7000030 7001110 7001400 44,782 Telecommunications Services Safety and Environmental 117,778 176,235 152,260 Frack Stack Rentals Freight (Transportation Services) 8,598 227,785 Equipment Rental (w/o operator, frac tanks, lightplants) Rental Buildings (trailers) 733000 44,782 Contract Labor - Pumping (pump-down pumps) 8% Contingency & Taxes TOTAL COMPLETION - INTANGIBLE \$7,155,274

TOTAL COMPLETION COST

\$7,170,274

SURFACE EQUIPMENT - TANGIBLE

7012350	Misc. Piping, Fittings & Valves	130,155
7006640	Company Labor & Burden	
7000030	Contract Labor - General	141,355
7001110	Telecommunication equip (Telemetry)	27.690
7012410 7012270	Line Pipe & Accessories Miscellaneous Materials (containment system)	
7008060	Miscellaneous Materials (containment system) SCADA	12,417
7016180	Freight - truck	12,981
7001190	Contract Engineering	8,041
7012290	Metering and Instrumentation	220,258
7012290	I&E Materials	129,197
7012200	Gas Treating	
7012200	Dehydration	- <u> </u>
7012010	Compressor	14,948
7012350	Power	-
7012610	Vapor Recovery Unit	
7012440	Separator & other pressure vessels	208,842
7012500	Tanks	36,761
7012100	Heater Treater	108,649
7012640	Flare & Accessories	15,782
7000010	Electrical Labor	71,389
7000010	Mechanical Labor	154,377
7012480	Rod Pumping unit & Pad	
7012180	Pumping Unit Engine	<u> </u>
7012350	Electrical Power (electrical cooperative construction costs)	28,919
	TOTAL SURFACE EQUIPMENT - TANGIBLE	\$1,371,000
	TOTAL SURFACE EQUIPMENT COST	\$ 1,371,000
	TOTAL SURFACE EQUIPMENT COST	\$
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	6,085
7019130	Kill Fluid	2,028
7040330	Well Services & Rig	24,339
7019220		
/019220	TOTAL ARTIFICIAL LIFT	431,000
/019220	TOTAL ARTIFICIAL LIFT COST	\$ 431,000
7019220	TOTAL ARTIFICIAL LIFT COST	\$\$
7019220		\$\$
7019220	TOTAL ARTIFICIAL LIFT COST	\$ 431,000 DSTS TOTAL COST
7019420	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST	\$ 431,000 DSTS TOTAL COST \$ 275,000
/019220	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200
7019220	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274
/019220	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274
7019220	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 431,000 DISTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000
7019420	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274
7019220	TOTAL ARTIFICIAL LIFT COST SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST	\$ 431,000 DISTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000
MARATHON OIL PERMIAN LLC	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 DISTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474
	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 DISTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 DISTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST	\$ 431,000 DISTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST E OSTS PERMIAN Purple Sage/Wolfcamp	\$ 431,000 DOSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ \$ 431,000
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST E OSTS PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H Ct to be covered by Operator's Extra Expense insurance and pay my proportionate.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE I elec Opera	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST FERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H Ct to be covered by Operator's Extra Expense Insurance and pay my proportionate: ator has secured Extra Expense Insurance and pay my proportionate:	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE I elec Opera	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H Ct to be covered by Operator's Extra Expense insurance and pay my proportionate.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE elec Opera elec	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST FEOSTS PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H Ct to be covered by Operator's Extra Expense Insurance and pay my proportionate ator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as nated in Line inten 0180-0185. Ct to purchase my own well control insurance policy.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE elec Opera estimal elec	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DORILLING COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H ct to be covered by Operator's Extra Expense Insurance and pay my proportionate: attor has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as nated in Line item 0180-0185.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE elec Opera elec	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST FEOSTS PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H Ct to be covered by Operator's Extra Expense Insurance and pay my proportionate ator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as nated in Line inten 0180-0185. Ct to purchase my own well control insurance policy.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE I elec Opera lefect If neither box is checked above	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DORILLING COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H ct to be covered by Operator's Extra Expense Insurance and pay my proportionate ator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as nated in Line item 0180-0185. ct to purchase my own well control insurance policy.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE I elec Opera Lefectory I felectory	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DORILLING COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H ct to be covered by Operator's Extra Expense Insurance and pay my proportionate ator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as nated in Line item 0180-0185. ct to purchase my own well control insurance policy.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023
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MARATHON OIL PERMIAN LLC AUTHORITY FOR EXPENDITURE DETAIL OF ESTIMATED WELL CO Asset Team Field Lease/Facility EXTRA EXPENSE INSURANCE If neither box is checked above Company / Owner: Signature:	SUMMARY OF ESTIMATED DRILLING WELL CO TOTAL LOCATION COST TOTAL DORILLING COST TOTAL DRILLING COST TOTAL COMPLETIONS COST TOTAL SURFACE EQUIPMENT COST TOTAL ARTIFICIAL LIFT COST GRAND TOTAL COST PERMIAN Purple Sage/Wolfcamp Decimus Fed Com 804H ct to be covered by Operator's Extra Expense Insurance and pay my proportionate ator has secured Extra Expense Insurance covering costs of well control, clean up and redrilling as nated in Line item 0180-0185. ct to purchase my own well control insurance policy.	\$ 431,000 DSTS TOTAL COST \$ 275,000 \$ 4,486,200 \$ 7,170,274 \$ 1,371,000 \$ 431,000 \$ 431,000 \$ 13,733,474 DATE 3/15/2023

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. 23755

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 August 11, 2023, and attached hereto, and notice letter dated October 6, 2023 sent to MCM Permian, as Exhibit A.
- 2) Exhibit B is the mailing list, which show the notice letters were delivered to the USPS for mailing on August 11, 2023, and the mailing list showing the letter to MCM Permian delivered to the USPS for mailing on October 6, 2023.
- 3) Exhibit C is the certified mailing tracking information, which is automatically complied 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 September 7, 2023 hearing was published on August 17, 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: October 23, 2023

EXHIBIT B.7

50

Deena H. Bennett

Deana M. Bennett



Deana M. Bennett 505.848.1834 dmb@modrall.com



LAWYERS

August 11, 2023

Re:

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

TO: AFFECTED PARTIES

APPLICATION OF MARATHON OIL PERMIAN, LLC

FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 23755

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

In Case No. 23755, Marathon seeks an order from the Division pooling all uncommitted mineral interests within a standard 1280-acre, more or less, Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit. 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 3.5 miles northwest of Loving, NM.

The hearing will be conducted remotely on September 7, 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/.

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 Sperling 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 application. 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,

Wellera H. Bennett Deana M. Bennett

Attorney for Applicant

OCD Examiner Hearing 11-2-23
No. 23755
Page 57 of 92
Page I of 4

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. 23755

APPLICATION

Marathon Oil Permian LLC ("Marathon"), OGRID Number 372098, through its undersigned attorneys, hereby submits this application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. In support of this application, Marathon states as follows:

- 1. Marathon is an interest owner in the subject lands and has a right to drill a well thereon.
- 2. Marathon seeks to dedicate the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 1280-acre, more or less, standard spacing unit.
- 3. Marathon plans to drill the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H 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.

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OCD Examiner Hearing 11-2-23 No. 23755 Page 58 of 92

Received by OCD: 11/2/2023 1:00:40 PM Received by OCD: 8/8/2023 3:59:33 PM

6. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com

803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the

inclusion of the proximity tracts within the proposed spacing unit under Rule 19.15.16.15(B)(1)(b)

NMAC.

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 September 7, 2023 and after notice and hearing as

required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Wolfcamp formation

underlying a horizontal spacing unit within the S/2 of Sections 5 and 6 and the N/2 of Sections 7

and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico;

В. Designating Marathon as operator of this unit and the wells to be drilled

thereon;

C. Authorizing Marathon to recover its costs of drilling, equipping and

completing the wells;

D. Approving actual operating charges and costs charged for supervision,

together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the

wells in the event a working interest owner elects not to participate in the wells.

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Respectfully submitted,

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

By: Wears 4 Bennert

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. 23755: 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 standard 1280-acre, more or less, Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit. 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 3.5 miles northwest of Loving, NM.

Deana M. Bennett 505.848.1834 dmb@modrall.com



October 6, 2023

VIA CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Re: APPLICATION OF MARATHON OIL PERMIAN, LLC

FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 23755

TO: AFFECTED PARTIES

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

In Case No. 23755, Marathon seeks an order from the Division pooling all uncommitted mineral interests within a standard 1280-acre, more or less, Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit. 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 3.5 miles northwest of Loving, NM.

The hearing was originally set for October 5, 2023, but has been rescheduled and will be conducted remotely on November 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/.

Modrall Sperling 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

58

Page 2

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 the right to present evidence either in support of or in opposition to the application. 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,

Deana M. Bennett

Attorney for Applicant

Dema H. Bennett

OCD Examiner Hearing 11-2-23

Received by OCD: 8/8/2023 3:59:33 PM

No. 23755 Page 63 of 92 59 Page 1 of 4

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. 23755

APPLICATION

Marathon Oil Permian LLC ("Marathon"), OGRID Number 372098, through its undersigned attorneys, hereby submits this application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico.

In support of this application, Marathon states as follows:

1. Marathon is an interest owner in the subject lands and has a right to drill a well

thereon.

2. Marathon seeks to dedicate the S/2 of Sections 5 and 6 and the N/2 of Sections 7

and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 1280-

acre, more or less, standard spacing unit.

3. Marathon plans to drill the Decimus Fed Com 801H, Decimus Fed Com 701H,

Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed

Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H 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.

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Received by OCD: 11/2/2023 1:00:40 PM

OCD Examiner Hearing 11-2-23

No. 23755 Page 64 of 92

Received by OCD: 8/8/2023 3:59:33 PM

60 Page 2 of 4

6. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com

803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the

inclusion of the proximity tracts within the proposed spacing unit under Rule 19.15.16.15(B)(1)(b)

NMAC.

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 September 7, 2023 and after notice and hearing as

required by law, the Division enter its order:

A. Pooling all uncommitted mineral interests in the Wolfcamp formation

underlying a horizontal spacing unit within the S/2 of Sections 5 and 6 and the N/2 of Sections 7

and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico;

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

thereon;

C. Authorizing Marathon to recover its costs of drilling, equipping and

completing the wells;

D. Approving actual operating charges and costs charged for supervision,

together with a provision adjusting the rates pursuant to the COPAS accounting procedure;

E. Setting a 200% charge for the risk involved in drilling and completing the

wells in the event a working interest owner elects not to participate in the wells.

2

Received by OCD: 8/8/2023 3:59:33 PM

Respectfully submitted,

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

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 Received by OCD: 8/8/2023 3:59:33 PM

OCD Examiner Hearing 11-2-23
No. 23755

Page 66 of 92

62 Page 4 of 4

CASE NO. 23755: 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 standard 1280-acre, more or less, Wolfcamp horizontal spacing unit underlying the S/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit. 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 3.5 miles northwest of Loving, NM.

PS Form 3877

Type of Mailing: CERTIFIED MAIL 08/11/2023

Firm Mailing Book ID: 250644

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1	9314 8699 0430 0110 8987 13	NOVO MINERALS, LP 1001 WEST WILSHIRE BLVD. SUITE 206 Oklahoma City OK 73116	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
2	9314 8699 0430 0110 8987 20	DON L. PARKER P.O. BOX 329 LOVING NM 88256	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
3	9314 8699 0430 0110 8987 37	The New Mexico Department of Transportation P.O. Box 1149 Santa Fe NM 87504	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
4	9314 8699 0430 0110 8987 44	Blakemore Family Royalty Partnership 1901 N. Akard Street Dallas TX 75201	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
5	9314 8699 0430 0110 8987 51	Roy Barton & Claudia Barton, joint tenants 1919 NORTH TURNER HOBBS NM 88240	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
6	9314 8699 0430 0110 8987 68	Roy Barton & Opal Barton Revocable Trust Roy G. Barton Jr., Trustee 1919 NORTH TURNER HOBBS NM 88240	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
7	9314 8699 0430 0110 8987 75	Valence Operating Company 600 Rockmead Drive, Suite 200 Kingwood TX 77339	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
8	9314 8699 0430 0110 8987 82	Thomas M. Beall 1414 Country Club Drive Midland TX 79701	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
9	9314 8699 0430 0110 8987 99	Richardson Oil Company, LLC 7557 Rambler Road, Suite 918 Dallas TX 75231	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
10	9314 8699 0430 0110 8988 05	Highland (Texas) Energy Company 7557 Rambler Road, Suite 918 Dallas TX 75231	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
11	9314 8699 0430 0110 8988 12	Southwest Petroleum Company, L.P. P.O. Box 702377 Dallas TX 75370	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
12	9314 8699 0430 0110 8988 29	Ward N. Atkins, Jr. 5519 Tupper Lake Houston TX 77056 Stevens Oil & Gas, LLC	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
13	9314 8699 0430 0110 8988 36	P.O. Box 3087	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
14	9314 8699 0430 0110 8988 43	David M. Stevens 3101 Diamond A Drive Roswell NM 88201	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
15	9314 8699 0430 0110 8988 50	Lucinda Loveless 230 South Alameda	\$1.59	\$4.35	\$2.20	EXHIBIT	81363.0217. Notice
		Las Cruces NM 88005				spig 2	

Page 2023 Walz CertifiedPro.net

PS Form 3877

Type of Mailing: CERTIFIED MAIL 08/11/2023

Firm Mailing Book ID: 250644

ng: 1	Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
1/2/202	16	9314 8699 0430 0110 8988 67	Michael F. Murry 9206 Bent Spur Lane Houston TX 77064	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
3 1:43.	17	9314 8699 0430 0110 8988 74	Fasken Land and Minerals Ltd. 303 West Wall Avenue, Suite 1800 Midland TX 79701	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
 11/2/2023 1:43:56 PM	18	9314 8699 0430 0110 8988 81	Oxy USA WTP Limited Partnership 5 Greenway Plaza, Suite 110 Houston TX 77046	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	19	9314 8699 0430 0110 8988 98	Bruce A. Stubbs 804 Pearson Dr. Roswell NM 88201	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	20	9314 8699 0430 0110 8989 04	Wells Fargo Bank, N.A., Trustee of the Lisa McFarland Trust P.O BOX 1959 MIDLAND TX 79702	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	21	9314 8699 0430 0110 8989 11	PrimeEnergy Asset and Income Fund AA-4 Attn: Ron Summers 9821 Katy Freeway Suite 1050 Houston TX 77024	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	22	9314 8699 0430 0110 8989 28	PrimeEnergy Asset and Income Fund AA-3 Attn: Ron Summers 9821 Katy Freeway Suite 1050 Houston TX 77024	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	23	9314 8699 0430 0110 8989 35	Fort Worth Mineral Company, LLC 425 Houston Street, Suite 400 Fort Worth TX 76102	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	24	9314 8699 0430 0110 8989 42	Wells Fargo Bank, N.A., Trustee of Patricia Del Valle Trust P.O BOX 1959	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	25	9314 8699 0430 0110 8989 59	ESTATE OF JEANETTE HUGHEN 2200 WEST PIERCE STREET CAPUSPAD NM 88220	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	26	9314 8699 0430 0110 8989 66	NORMA J. CHANLEY P.O. BOX 728 HOBBS NM 88241 AUG 1 1 2022	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	27	9314 8699 0430 0110 8989 73	Dick A. Blenden 208 West Stevens Street Carlsbad NM 88220	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	28	9314 8699 0430 0110 8989 80	Carlsbad NM 88220 JEFFERY B. DIAMOND P.O. BOX 1866 CARLSBAD NM 88220	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
	29	9314 8699 0430 0110 8989 97	Jeffrey B. Diamond and Envy Diamond 323 West Mermod Carlsbad NM 88220	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice

Type of Mailing: CERTIFIED MAIL 08/11/2023

PS Form 3877

Firm Mailing Book ID: 250644

Line	USPS Article Number	Name, Street, City, State, Zip	Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents	
30	9314 8699 0430 0110 8990 00	Marifred Handley 5 Las Casitas Las Cruces NM 88007	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	2023 1
31	9314 8699 0430 0110 8990 17	Harle, Inc. P.O. Box 821415 Houston TX 77282	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	11/2/2023 1:00:40 PM
32	9314 8699 0430 0110 8990 24	Jana Zane Hayes 4560 Belt Line Road, Suite 428 Addison TX 75001	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	PM
33	9314 8699 0430 0110 8990 31	Gregory Raymond Hayes 4560 Belt Line Road, Suite 428 Addison TX 75001	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
34	9314 8699 0430 0110 8990 48	Sandy Blenden 15 Paloma Ave., Apt. 21 Venice CA 90291	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
35	9314 8699 0430 0110 8990 55	Phil Blenden 902 Fountain Drive Carlsbad NM 88220	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
36	9314 8699 0430 0110 8990 62	Robin Shelton 3326 Maxwell Drive Midland TX 79707	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
37	9314 8699 0430 0110 8990 79	Robert Levenson and Carol Levenson 4015 88th Place Lubbock TX 79423	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
38	9314 8699 0430 0110 8990 86	Kathleen Phillips 3706 Oakmont Drive Midland TX 79707	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
39	9314 8699 0430 0110 8990 93	Tommy Phipps and Werta Jean Phipps Trustees of the Phipps Living Trust 3013 Sycamore Court Moore OK 73160	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
40	9314 8699 0430 0110 8991 09	Western Commerce Bank Account of Forrest Miller P.O. Drawer 1358 Carlsbad NM 88221	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
41	9314 8699 0430 0110 8991 16	Forrest Miller P.O. Drawer 1358 Carlsbad NM 88221	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
42	9314 8699 0430 0110 8991 23	Read & Stevens, Inc. P.O. Box 1518 Roswell NM 88202	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
43	9314 8699 0430 0110 8991 30	CBR Oil Properties LLC P.O. Box 1518 Roswell NM 88202 Hillman Royalties, LP 1415 S. Voss Suite 110, 105	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	
44	9314 8699 0430 0110 8991 47	Hillman Royalties, LP 1415 S. Voss, Suite 110-105 Houston TX 77057	\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice	Page 69

PS Form 3877

Type of Mailing: CERTIFIED MAIL 08/11/2023

Karlene Schi Modrall Spe 500 Fourth S Albuquerque	rling Roehl Harris & Sisk P.A. Street, Suite 1000	Type of Mailin	Form 38 g: CER1 8/11/202	ΓIFIED MAI	L		Firm Ma	No. 23755 66 ailing Book ID: 250644
	USPS Article Number	Name, Street, City, State, Zip		Postage	Service Fee	RR Fee	Rest.Del.Fee	Reference Contents
45	9314 8699 0430 0110 8991 54	Stryker Energy, LLC P.O. Box 53448 Houston TX 77052		\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
46	9314 8699 0430 0110 8991 61	Zunis Energy, LLC 15 East 5th Street, Suite 3300 Tulsa OK 74103		\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
45 46 47	9314 8699 0430 0110 8991 78	Susannah Adelson, Trustee of James Adelson & Family 2015 Trusts 15 East 5th Street, Suite 3300 Tulsa OK 74103		\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
48	9314 8699 0430 0110 8991 85	Yuma Exploration & Production Company, Inc. 1177 West Loop, Suite 1825 Houston TX 77027		\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
49	9314 8699 0430 0110 8991 92	Viper Energy Partners LLC 500 West Texas, Suite 1200 Midland TX 79701		\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
50	9314 8699 0430 0110 8992 08	Bureau of Land Management 301 Dinosaur Trail SANTA FE NM		\$1.59	\$4.35	\$2.20	\$0.00	81363.0217. Notice
		Santa Fe NM 87508						
		7	Fotals:	\$79.50		\$110.00	\$0.00	
List Number o					Grand	Total:	\$407.00	

List Number of Pieces Listed by Sender

Total Number of Pieces Received at Post Office

Postmaster: Name of receiving employee

Dated:

50







PS Form 3877

Type of Mailing: CERTIFIED MAIL 10/06/2023

Albuquerque	reet, Suite 1000 NM 87102	Ту	pe of Mailing: CER' 10/06/202		L		Firm Mail	ing Book ID: 253653
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1	9314 8699 0430 0112 8783 24	MCM Permian, LLC P.O. Box 1540 Midland TX 79702		\$1.59	\$4.35	\$2.20	\$0.00	81363.0217
			Totals:	\$1.59	\$4.35	\$2.20	\$0.00	
3					Grand	Total:	\$8.14	
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			Transa	ction Report Details - CertifiedPro.net						
				Firm Mail Book ID= 250644						
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USPS Article Number	Date Created	Reference Number	Name 1							
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9314869904300110899178	2023-08-11 12:45 PM	81363.0217.	Susannah Adelson, Trustee of James Adelson &	5 11 - 2045 T	Houston	TX	77027	Lost	Return Receipt - Electronic, Certified Mail	
9314869904300110899161	2023-08-11 12:45 PM	81363.0217.	Zunis Energy, LLC	Family 2015 Trusts	Tulsa	ОК	74103	Delivered	Return Receipt - Electronic, Certified Mail	2023-08-14 12:46 PM
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	2023-08-11 12:45 PM	81363.0217.	Robert Levenson and Carol Levenson		Lubbock	TX	79423	Delivered	Return Receipt - Electronic, Certified Mail	2023-08-17 4:00 PM
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9314869904300110898942	2023-08-11 12:45 PM	81363.0217.	Wells Fargo Bank, N.A.,	Trustee of Patricia Del Valle Trust	Midland	TX	79702	Delivered	Return Receipt - Electronic, Certified Mail	2023-08-17 8:37 AM
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9314869904300110898812	2023-08-11 12:45 PM	81363.0217.	Southwest Petroleum Company, L.P.		Dallas	TX	75370	Delivered	Return Receipt - Electronic, Certified Mail	
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9314869904300110898782	2023-08-11 12:45 PM	81363.0217.	Thomas M. Beall		Midland	TX	79701	Delivered	Return Receipt - Electronic, Certified Mail	2023-08-14 10:26 AM
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9314869904300110898751	2023-08-11 12:45 PM	81363.0217.	Roy Barton & Claudia Barton, joint tenants	·	HOBBS	NM	88240	Delivered	Return Receipt - Electronic, Certified Mail	2023-08-16 2:50 PM
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			•		- Andrio IIIa	01	13110	DC CICU	necon neceipt - diectronic, certified Mail	2023-08-14 11:57 AM

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EXHIBIT C

October 12, 2023

Dear Covius Document Services:

The following is in response to your request for proof of delivery on your item with the tracking number: 9314 8699 0430 0112 8783 24.

Item Details

Status: Delivered, Individual Picked Up at Post Office

Status Date / Time: October 11, 2023, 01:55 p.m.

Location:MIDLAND, TX 79701Postal Product:First-Class Mail®Extra Services:Certified Mail™

Return Receipt Electronic

Recipient Name: MCM Permian LLC

Shipment Details

Weight: 2.0oz

Recipient Signature

Signature of Recipient:

Anna MEan

Address of Recipient:

213W WALL & A.

Note: Scanned image may reflect a different destination address due to Intended Recipient's delivery instructions on file.

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Carlsbad Current Argus.

Affidavit of Publication Ad # 0005800063 This is not an invoice

MODRALL SPERLING 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:

08/17/2023

Legal Clerk

Subscribed and sworn before me this August 17,

2023:

State of WI, County of Brown

Millen

NOTARY PUBLIC

My commission expires

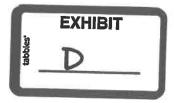
heirs and devisees of Novo Minerals, LP; Don L. Parker; The New Mexico Department of Transportation; Blakemore Family Royalty Partnership; Roy G. Barton, Jr. and wife Claudia Barton as joint tenants; Roy G. Barton, Jr. and Opal Barton Revocable Trust, Roy G. Barton Jr., Trustee; Valence Operating Company; Thomas M. Beall; Richardson Oil Company, LLC; Highland (Texas Energy Company; Southwest Petroleum Company, LP; Ward N. Atkins, Jr.; Stevens Oil & Gas, LLC; David M. Stevens; Lucinda Loveless; Michael F. Murry; Fasken Land and Minerals Ltd.; Oxy USA WTP Limited Partnership; Bruce A. Stubbs; Wells Fargo Bank, N.A., Trustee of the Lisa McFarland Trust; PrimeEnergy Asset and Income Fund AA-4 Attn: Ron Summers; PrimeEnergy Asset Income Fund AA-4 Attn: Ron Summers; PrimeEnergy Asset and Income Fund AA-3 Attn: Ron Summers; Fort Worth Mineral Company, LLC; Wells Fargo Bank, N.A., Trustee of the Patricia Del Valle Trust; Estate of Jeanette Hughen; Norma J. Chanley; Dick A. Blenden; Jeffrey B. Diamond; Jeffrey ma J. Chanley; Dick A. Blenden; Jeffrey B. Diamond; Jeffrey B. Diamond and Envy Diamond; Marifred Handley; Harle, Inc.; Jana Zane Hayes; Gregory Raymond Hayes; Sandy Blenden; Phil Blenden; Robin Shelton; Robert Levenson and Carol Levenson; Kathleen Phillips; Tommy Phipps and Werta Jean Phipps, Trustees of the Phipps Living Trust; Western Commerce Bank for the Account of Forrest Miller; Forrest Miller; Read & Stevens, Inc.; CBR Oil Properties LLC; Hillman Royalties, LP; Stryker Energy, LLC; Zunis Energy, LLC; Susannah D. Adelson, Trustee of the James Adelson & Family 2015 Trusts; Yuma Exploration & Production Company, Inc.; Viper Energy Partners LLC; MCM Permian, LLC; Bureau of Land Management of Application of Marathon Oil Permian Land Management 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 September 7, 2023 to consider this application. Information about accessing the electronic hearing is posted at "OCD NOTICES" at https://www.emrnd.nm.gov/ocd/hearing-info/. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a standard 1280-acre, more or less, Wolfcamp horizontal spacing unit underlying the 5/2 of Sections 5 and 6 and the N/2 of Sections 7 and 8, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Decimus Fed Com 801H, Decimus Fed Com 701H, Decimus Fed Com 802H, Decimus Fed Com 702H, Decimus Fed Com 803H, Decimus Fed Com 703H, Decimus Fed Com 804H and Decimus Fed Com 704H wells, to be horizontally drilled. The wells will be drilled at orthodox locations. The completed intervals for the Decimus Fed Com 702H and hearing at 8:15 a.m. on September 7, 2023 to consider this The completed intervals for the Decimus Fed Com 702H and Decimus Fed Com 803H wells are expected to be less than Decimus Fed Com 803H wells are expected to be less than 330' from the adjoining tracts thereby allowing for the inclusion of the proximity tracts within the proposed spacing unit. 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 3.5 miles northwest of Loving, NM. #5800063, Current Argus, August 17, 2023

CASE NO. 23755: Notice to all affected parties, as well as heirs and devisees of Novo Minerals, LP; Don L. Parker; The

KATHLEEN ALLEN Notary Public State of Wisconsin

Ad # 0005800063 PO #: 23755 # of Affidavits1

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71

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. 23755

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 ("Marathon"), and have personal knowledge of the matters stated herein. I have previously testified before the Oil Conservation Division ("Division") and my credentials as an expert petroleum geologist were accepted by the Division as a matter of record.
- 2. My area of responsibility at Marathon includes the area of Eddy County in New Mexico.
 - 3. I am familiar with the application filed by Marathon in this case.
- 4. **Exhibit C.1** is a locator map showing the approximate location of the proposed unit in relation to the Capitan Reef.
 - 5. **Exhibit C.2** is a wellbore schematic showing Marathon's development plan.
- 6. **Exhibits C.3** through **C.6** are the geology study I prepared for the Decimus Fed Com 701H, Decimus Fed Com 702H, Decimus Fed Com 703H, and Decimus Fed Com 704H wells, which will target the Wolfcamp XY formation.
- 7. **Exhibit C.3** is a structure map of the top of the Wolfcamp formation. The proposed spacing unit is identified by a black dashed box. The proposed Wolfcamp XY wells are identified

Exhibit C

by red lines. The contour interval used in this exhibit is 25 feet. This exhibit shows that the structure dips gently to the southeast.

- 8. **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'.
- 9. **Exhibit C.5** is a stratigraphic cross-section, and the well logs shown on the cross-section give a representative sample of the Wolfcamp XY formation in the area.
- 10. **Exhibit C.6** is a Gross Interval Isochore for the top of the Wolfcamp to the top of the Wolfcamp B. The gross interval thickness increases to the southeast.
- 11. **Exhibits C.7** through **C.10** are the geology study I prepared for the Decimus Fed Com 801H, Decimus Fed Com 802H, Decimus Fed Com 803H, and Decimus Fed Com 804H wells, which will target the Wolfcamp C formation.
- 12. **Exhibit C.7** is a structure map of the Wolfcamp C formation. The proposed spacing unit is identified by a black dashed box. The proposed Wolfcamp C wells are identified by the redlines. The contour interval used in this exhibit is 25 feet. This exhibit shows that the structure dips gently to the southeast.
- 13. **Exhibit C.8** 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'.
- 14. **Exhibit C.9** is a stratigraphic cross-section, and the well logs shown on the cross-section give a representative sample of the Wolfcamp formation in the area.
- 15. **Exhibit C.10** is a Gross Interval Isochore map from the top of the Wolfcamp C to the top of the Wolfcamp D. The gross interval thickness increases to the south.
 - 16. I conclude from the geology studies referenced above 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.
- Exhibit C.11 provides an overview of the stress orientation in the area based on 17. the 2018 Snee-Zoback paper.
- 18. The preferred well orientation in this area is either west/east or north/south, optimal for induced fracture propagation. This is because the S_{Hmax} is at approximately 45 degrees NE in this area of Eddy County. As a result, hydraulic fractures will prefer to propagate at 45 degrees, regardless of west/east or north/south well orientation.
- 19. In my opinion, the granting of Marathon's application is in the interests of conservation and the prevention of waste.
- 20. The attachments to this declaration were prepared by me, or compiled from company business records, or were prepared at my direction.

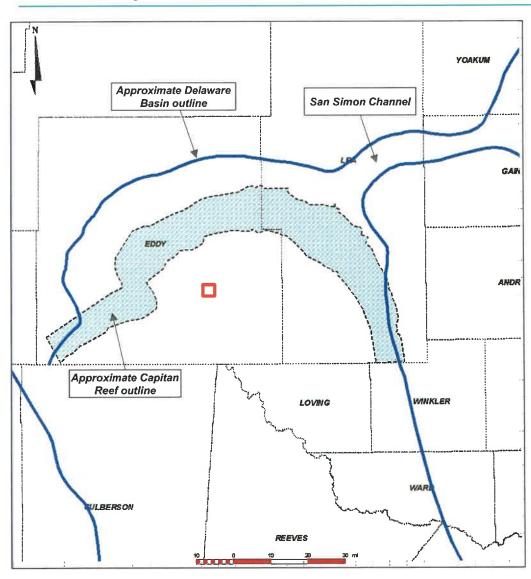
[Signature page follows]

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: October 3, 2023

Greg Buratowski

Locator Map

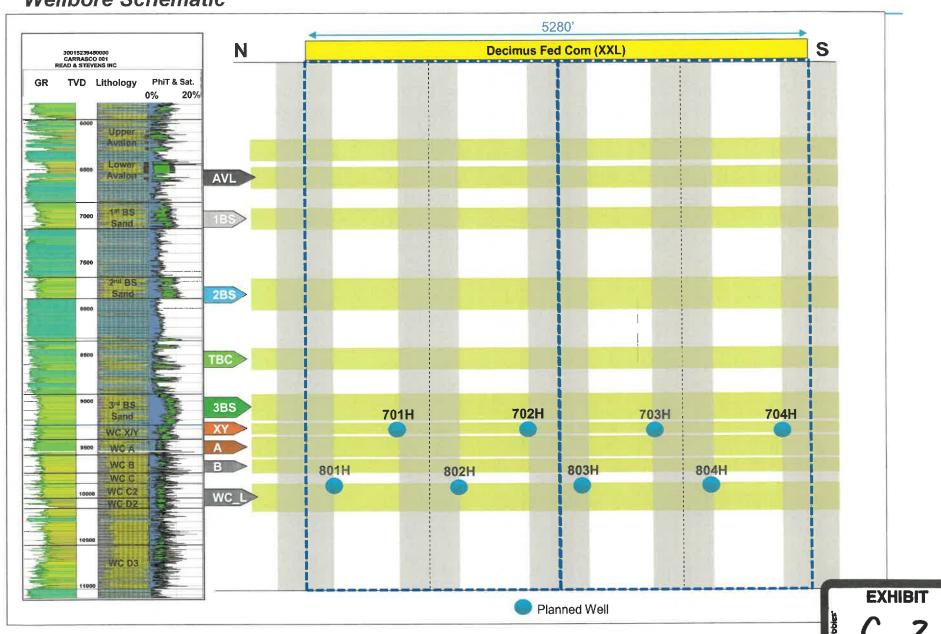


- Approximate location of proposed Decimus Federal Com well locations shown with red box
- Located outside of the Capitan Reef
- Mid-eastern Eddy County

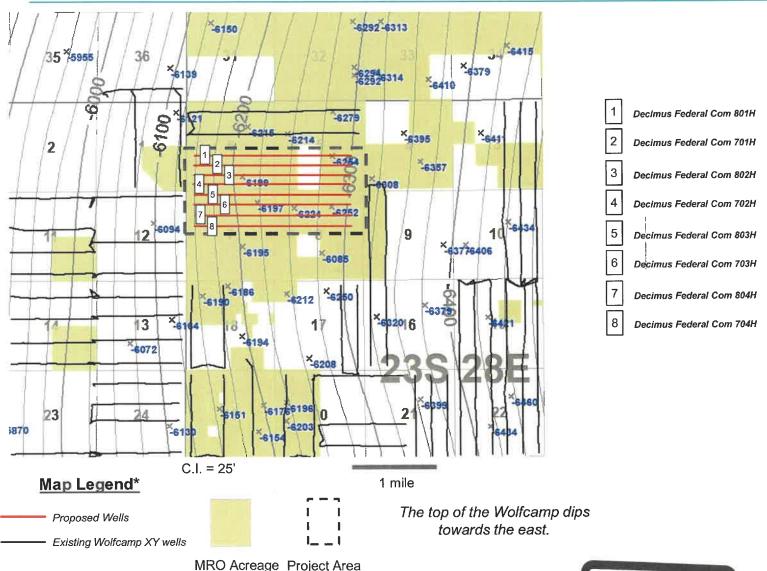


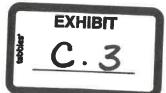


Wellbore Schematic



Structure Map – Top of Wolfcamp (TVDSS)







Reference Map for Cross Section



Decimus Federal Com 801H

Decimus Federal Com 701H

Decimus Federal Com 802H

Decimus Federal Com 702H

Decimus Federal Com 803H

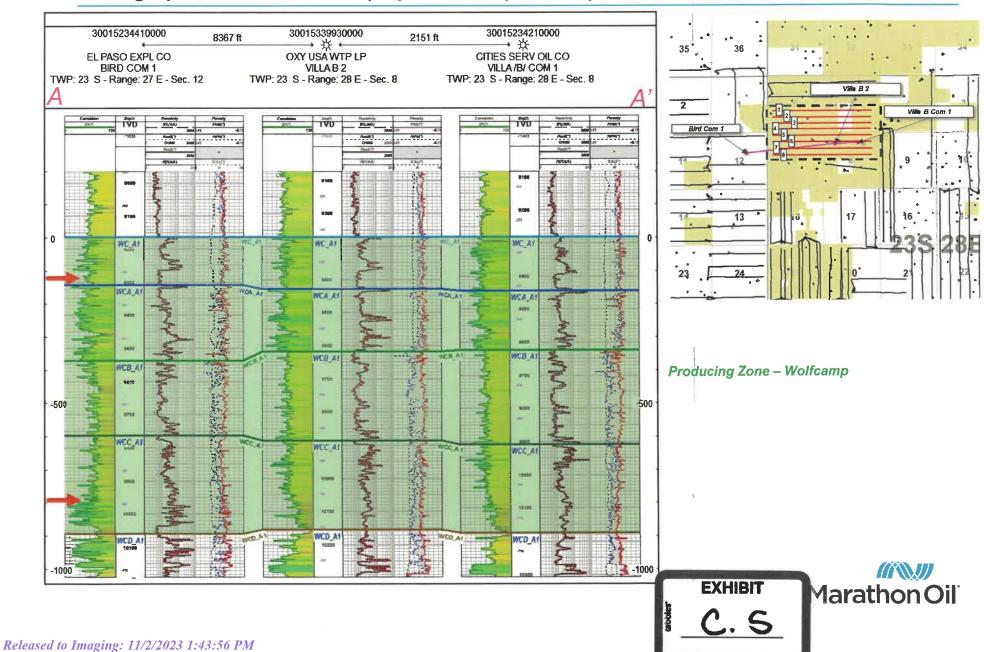
Decimus Federal Com 703H

Decimus Federal Com 804H

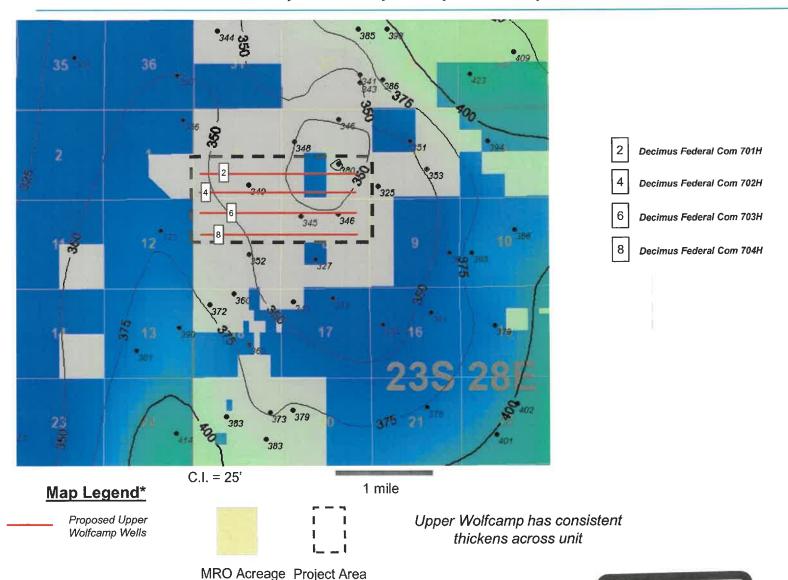
Decimus Federal Com 704H

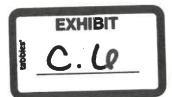
Marathon Oil'

Stratigraphic Cross Section (Top Wolfcamp Datum)



Gross Interval Isochore - Top Wolfcamp to Top Wolfcamp B

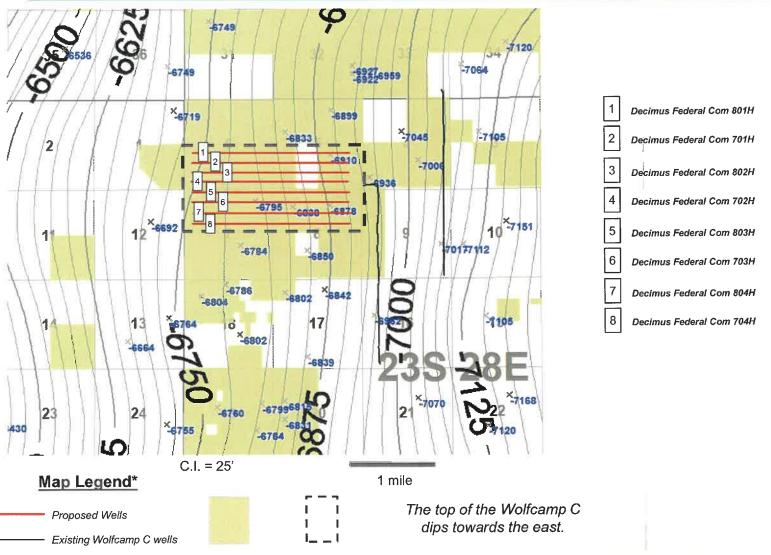


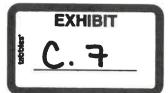




MRO Acreage Project Area

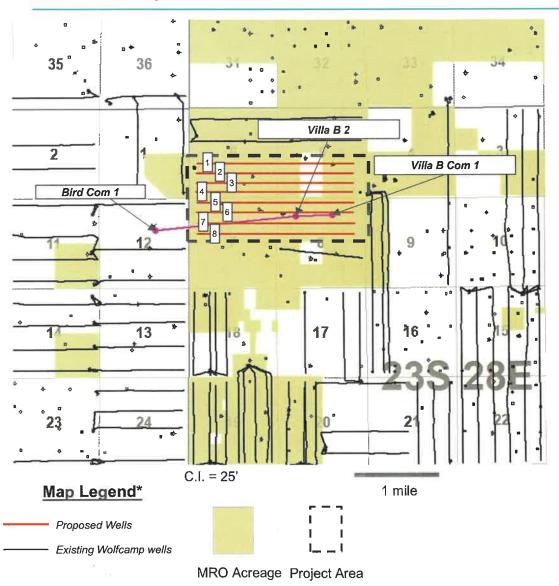
Structure Map - Top of Wolfcamp C (TVDSS)







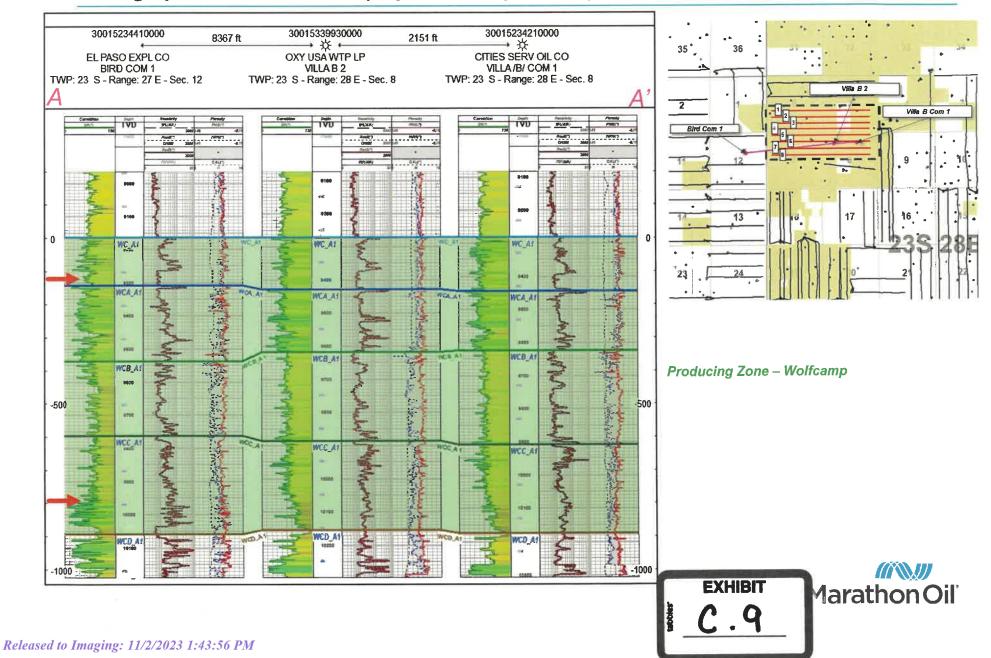
Reference Map for Cross Section



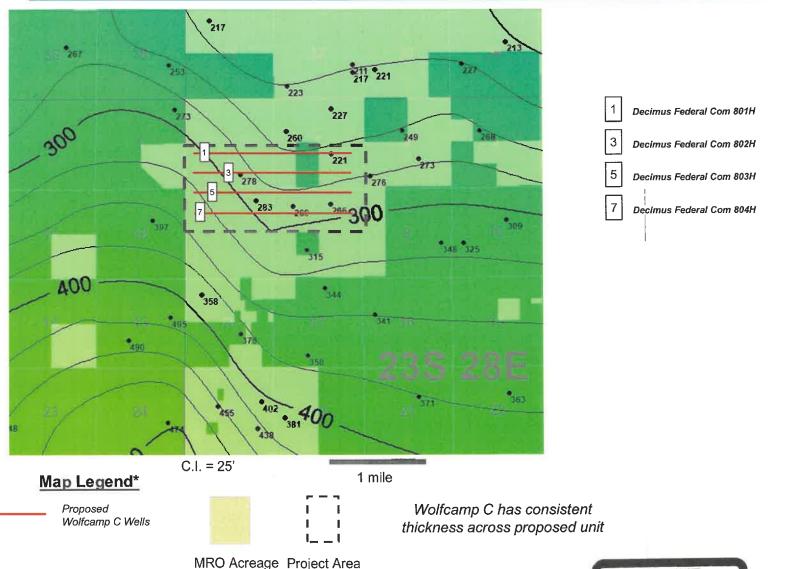
- Decimus Federal Com 801H
- Decimus Federal Com 701H
- Decimus Federal Com 802H
- Decimus Federal Com 702H
- Decimus Federal Com 803H
- 6 Decimus Federal Com 703H
- Decimus Federal Com 804H
- Decimus Federal Com 704H



Stratigraphic Cross Section (Top Wolfcamp Datum)



Gross Interval Isochore - Top Wolfcamp C to Top Wolfcamp D







Preferred Well Orientation - SHmax

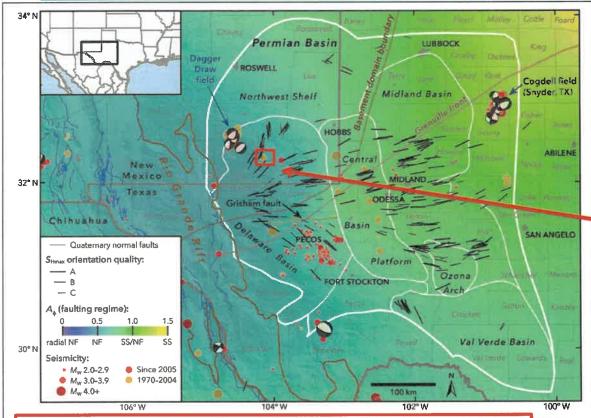


Figure 1. State of stress in the Permian Basin, Texas and New Mexico. Black lines are the measured orientations of the maximum horizontal stress (S_{Ream}), with line rength scaled by data quanty. The colored background is an interpolation or measured relative principal stress magnitudes (raunting regime) expressed using the A_a 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 USGS Quaternary Faults and Folds Database (Crone and Wheeler, 2000). The boundary between the Shawnee and Mazatzal basement domains is from Lund et al. (2015), and the Precambrian Grenville Front is from Thomas (2006). The Permian Basin boundary is from the U.S. Energy Information Administration, and the subbasin boundaries are from the Exas Bureau of Economic Geology Permian Basin Geological Synthesis Project. Earthquakes are from the USGS National Earthquake Information Center, the TexNet Seismic Monitoring Program, and Gan and Frohlich (2013). Focal mechanisms are from Saint Louis University (Herrmann et al., 2011).

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/tle37020810.1.

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.





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

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

CASE NO. 23755

NOTICE OF FILING AMENDED EXHIBIT PACKET

On behalf of Marathon Oil Permian LLC notice is hereby provided of the filing of the amended exhibit, attached hereto. As requested by the Division at the November 2, 2023 hearing, Marathon has updated the exhibit packet to include an amended compulsory pooling checklist to include material inadvertently cut off during the scanning process and to correct the pool type from oil to gas, as well as to ensure that the list of pooled parties is included in the uploaded exhibit packet.

Respectfully submitted,

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

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CERTIFICATE OF SERVICE

I hereby certify that on November 2, 2023, I served a copy of the foregoing document to the following counsel of record via Electronic Mail to:

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