

Well Name: FRIZZLE FRY BS FEDERAL COM	Well Location: T22S / R32E / SEC 22 / SWSW /	County or Parish/State:
Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077058	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549555	Well Status: Approved Application for Permit to Drill	Operator: MARATHON OIL PERMIAN LLC

Notice of Intent

Sundry ID: 2770790

Type of Submission: Notice of Intent	Type of Action: APD Change
Date Sundry Submitted: 01/20/2024	Time Sundry Submitted: 02:16
Date proposed operation will begin: 01/29/2024	

Procedure Description: Marathon Oil Permian respectfully requests approval to change the follow: Well Name/Number Approved: Frizzle Fry 22 SB Fed Com 4H Proposed: Frizzle Fry BS Federal Com #502H BHL: Approved: 100' FNL 990' FWL Proposed: 100' FNL 1650' FWL Drill Plan Casing desgn: Surface: Approved: 13.375, 54.5#, J55, STC csg set @ 850' Proposed: 13.375, 54.5#, J55, BTC csg set @ 855' Intermediate: drill hole size change from 12.25" to 9.875" Approved: 9.625, 40# L80HC, BTC set @ 8570' Proposed: 7.625, 29.7#, P110HC, FJM, set @ 10067' Production: drill hole size change for 8.75" to 6.75" Approved: 5.5, 20#, P110, BTC set @ 20860' Proposed: 5.5, 23#, P110HC, TLW, set @ 20906' Please see drill plan for cement design changes. No other changes are requested. No additional surface disturbance.

NOI Attachments

Procedure Description

- Proprietary_Connections_Performance_Data_7.6250_29.7000_0.3750__P110_HP__1__20240227111855.pdf
- Frizzle_fry_502H_Drill_Plan_R_20240227111842.pdf
- C102_FrizzleFry_BS_Fed_Com_502H_20240120141527.pdf
- Fizzle_Fry_BS_Fed_Com_502H_DIR_PLAN_20240120135737.pdf

Received by OCD: 3/4/2024 7:42:04 AM

Page 2 of 15

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Well Number: 502H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077058	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549555	Well Status: Approved Application for Permit to Drill	Operator: MARATHON OIL PERMIAN LLC

Conditions of Approval

Additional

FRIZZLE_FRY_BS_FEDERAL_COM_502H___SUNDRY_COA_20240229130109.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: TERRI STATHEM	Signed on: FEB 27, 2024 11:18 AM
Name: MARATHON OIL PERMIAN LLC	
Title: Regulatory Compliance Manager	
Street Address: 990 TOWN & COUNTRY BLVD	
City: HOUSTON	State: TX
Phone: (713) 296-2113	
Email address: TSTATHEM@MARATHONOIL.COM	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KEITH P IMMATTY	BLM POC Title: ENGINEER
BLM POC Phone: 5759884722	BLM POC Email Address: KIMMATTY@BLM.GOV
Disposition: Approved	Disposition Date: 02/29/2024
Signature: KEITH IMMATTY	

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.	
6. If Indian, Allottee or Tribe Name	
7. If Unit of CA/Agreement, Name and/or No.	
8. Well Name and No.	
9. API Well No.	
10. Field and Pool or Exploratory Area	11. Country or Parish, State

SUBMIT IN TRIPLICATE - Other instructions on page 2	
1. Type of Well	
☐ Oil Well ☐ Gas Well ☐ Other	
2. Name of Operator	
3a. Address	3b. Phone No. (include area code)
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)	

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title
Signature	Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Additional Remarks

Intermediate:

drill hole size change from 12.25" to 9.875"

Approved: 9.625, 40# L80HC, BTC set @ 8570'

Proposed: 7.625, 29.7#, P110HC, FJM, set @ 10067'

Production:

drill hole size change for 8.75" to 6.75"

Approved: 5.5, 20#, P110, BTC set @ 20860'

Proposed: 5.5, 23#, P110HC, TLW, set @ 20906'

Please see drill plan for cement design changes.

No other changes are requested. No additional surface disturbance.

Location of Well

0. SHL: SWSW / 305 FSL / 1228 FWL / TWSP: 22S / RANGE: 32E / SECTION: 22 / LAT: 32.3707651 / LONG: -103.667135 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 22 / LAT: 32.3701984 / LONG: -103.6679071 (TVD: 10220 feet, MD: 10225 feet)

PPP: SWSW / 0 FNL / 990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 15 / LAT: 32.3844411 / LONG: -103.667914 (TVD: 10634 feet, MD: 16000 feet)

BHL: NWNW / 100 FNL / 990 FWL / TWSP: 22S / RANGE: 32E / SECTION: 15 / LAT: 32.3986835 / LONG: -103.6679208 (TVD: 10591 feet, MD: 20860 feet)

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-49555	² Pool Code 51683	³ Pool Name RED TANK; BONE SPRING
⁴ Property Code	⁵ Property Name FRIZZLE FRY BS FEDERAL COM	⁶ Well Number 502H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3644'

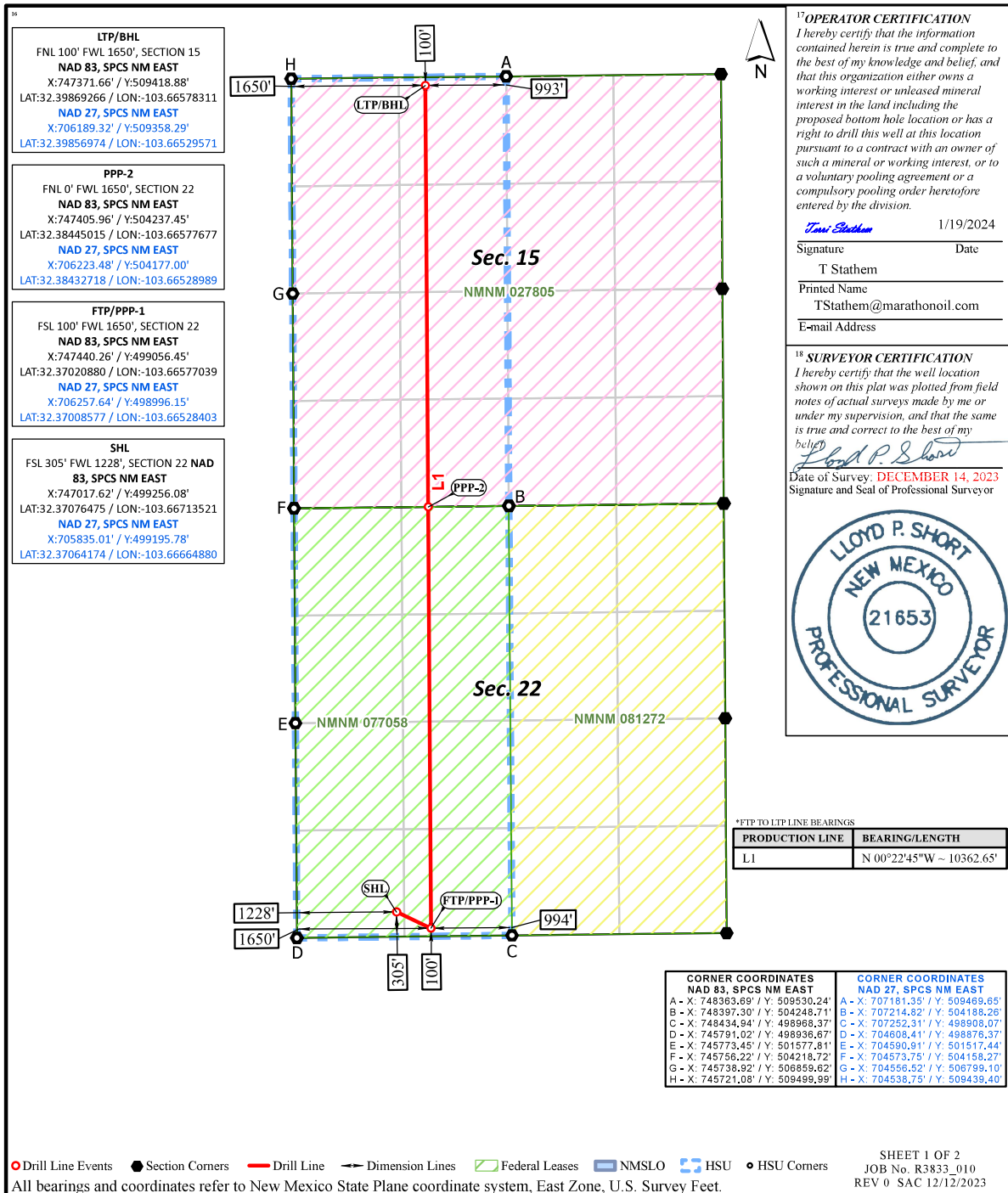
¹⁰ Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	22	22S	32E		305'	SOUTH	1228'	WEST	LEA

¹¹ Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	15	22S	32E		100'	NORTH	1650'	WEST	LEA
¹² Dedicated Acres 640.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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



MarathonOil

Corporation.

Company: Marathon Oil

Well: Fizzle Fry BS Fed Com 502H

County: Lea County, New Mexico (NAD 27)

Rig: Precision 580

Wellbore: Wellbore #1

Design: Design #1

Date: 12:43, January 05 2024

Geodetic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: New Mexico East 3001

System Datum: Mean Sea Level

WELL DETAILS: Fizzle Fry BS Fed Com 502H									
		GL @ 3644.00		WELL @ 3667.50usft (Precision 580)					
+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude				
0.00	0.00	499195.78	705835.01	32° 22' 14.310 N	103° 39' 59.936 W				
SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.000	0.00	KOP, 2.00°/100' Build
2499.92	10.00	120.55	2497.38	-22.11	37.47	2.00	120.549	-22.11	Begin 10.00° Tangent
4827.50	10.00	120.55	4789.62	-227.51	385.49	0.00	0.000	-227.51	Begin 2.00°/100' Drop
5327.42	0.00	0.00	5287.00	-249.63	422.96	2.00	180.000	-249.63	Begin Vertical Hold
10167.46	0.00	0.00	10127.04	-249.63	422.96	0.00	0.000	-249.63	KOP, 10.00°/100' Build
11067.46	90.00	359.62	10700.00	323.32	419.18	10.00	359.622	323.32	Begin 90.00° Lateral
20906.87	90.00	359.62	10700.00	10162.51	354.31	0.00	0.000	10162.51	PBHL

DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
FTP/PPP-1_F.F. BS 502H	0.00	-199.63	422.63	498996.15	706257.64	32° 22' 12.309 N	103° 39' 55.023 W
KOP v1_F.F. BS 502H	10127.04	-249.63	422.96	498946.15	706257.97	32° 22' 11.814 N	103° 39' 55.022 W
LTP/PBHL_F.F. BS 502H	10700.00	10162.51	354.31	509358.29	706189.32	32° 23' 54.851 N	103° 39' 55.065 W
PPP-2_F.F. BS 502H	10700.00	4981.22	388.47	504177.00	706223.48	32° 23' 3.578 N	103° 39' 55.044 W
Vert v1_F.F. BS 502H	5287.00	-249.63	422.96	498946.15	706257.97	32° 22' 11.814 N	103° 39' 55.022 W

SURVEY PROGRAM

Depth From	Depth To	Survey/Plan	Tool
0.00	20906.87	Design #1 (Wellbore #1)	MWD+IFR1+FDIR

MS Directional

T

G

M

Azimuths to Grid North

True North: -0.36°

Magnetic North: 5.94°

Magnetic Field

Strength: 47510.7nT

Dip Angle: 59.97°

Date: 1/31/2024

Model: HDGM2024

To convert a Magnetic Direction to a Grid Direction, Add 5.943°

To convert a Magnetic Direction to a True Direction, Add 6.300° East

To convert a True Direction to a Grid Direction, Subtract 0.357°

Marathon Oil

Fizzle Fry BS Fed Com 502H

Precision 580

The customer should only rely on this document after independently verifying all paths, targets, coordinates, lease and hard lines represented. Any decisions made or wells drilled utilizing this or any other information supplied by MS Directional are at the sole risk and responsibility of the customer. MS Directional is not responsible for the accuracy of this schematic or the information contained herein.

Marathon Oil

Fizzle Fry BS Fed Com 502H

Precision 580



Marathon Oil

**Lea County, New Mexico (NAD 27)
Fizzle Fry BS Fed Com (501H, 502H)
Fizzle Fry BS Fed Com 502H**

Wellbore #1

Plan: Design #1

Standard Planning Report

05 January, 2024





MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Fizzle Fry BS Fed Com 502H
Company:	Marathon Oil	TVD Reference:	WELL @ 3667.50usft (Precision 580)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3667.50usft (Precision 580)
Site:	Fizzle Fry BS Fed Com (501H, 502H)	North Reference:	Grid
Well:	Fizzle Fry BS Fed Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Lea County, New Mexico (NAD 27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Fizzle Fry BS Fed Com (501H, 502H)		
Site Position:		Northing:	499,195.86 usft
From:	Map	Easting:	705,805.11 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 14.313 N
		Longitude:	103° 40' 0.284 W

Well	Fizzle Fry BS Fed Com 502H		
Well Position	+N/-S	0.00 usft	Northing: 499,195.78 usft
	+E/-W	0.00 usft	Easting: 705,835.01 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.357 °	Ground Level:	3,644.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2024	1/31/2024	6.300	59.967	47,510.70

Design	Design #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	0.00	

Plan Survey Tool Program	Date	1/5/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,906.87	Design #1 (Wellbore #1)	MWD+IFR1+FDIR	
				OWSG MWD + IFR1 + FDIR	

Plan Sections											
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000		
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.000		
2,499.92	10.00	120.55	2,497.38	-22.11	37.47	2.00	2.00	0.00	120.549		
4,827.50	10.00	120.55	4,789.62	-227.51	385.49	0.00	0.00	0.00	0.000		
5,327.42	0.00	0.00	5,287.00	-249.63	422.96	2.00	-2.00	0.00	180.000		
10,167.46	0.00	0.00	10,127.04	-249.63	422.96	0.00	0.00	0.00	0.000		
11,067.46	90.00	359.62	10,700.00	323.32	419.18	10.00	10.00	0.00	359.622		
20,906.87	90.00	359.62	10,700.00	10,162.51	354.31	0.00	0.00	0.00	0.000	LTP/PBHL_F.F. BS	



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Fizzle Fry BS Fed Com 502H
Company:	Marathon Oil	TVD Reference:	WELL @ 3667.50usft (Precision 580)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3667.50usft (Precision 580)
Site:	Fizzle Fry BS Fed Com (501H, 502H)	North Reference:	Grid
Well:	Fizzle Fry BS Fed Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 2.00°/100' Build									
2,100.00	2.00	120.55	2,099.98	-0.89	1.50	-0.89	2.00	2.00	0.00
2,200.00	4.00	120.55	2,199.84	-3.55	6.01	-3.55	2.00	2.00	0.00
2,300.00	6.00	120.55	2,299.45	-7.98	13.52	-7.98	2.00	2.00	0.00
2,400.00	8.00	120.55	2,398.70	-14.17	24.01	-14.17	2.00	2.00	0.00
2,499.92	10.00	120.55	2,497.38	-22.11	37.47	-22.11	2.00	2.00	0.00
Begin 10.00° Tangent									
2,600.00	10.00	120.55	2,595.95	-30.95	52.43	-30.95	0.00	0.00	0.00
2,700.00	10.00	120.55	2,694.43	-39.77	67.39	-39.77	0.00	0.00	0.00
2,800.00	10.00	120.55	2,792.91	-48.60	82.34	-48.60	0.00	0.00	0.00
2,900.00	10.00	120.55	2,891.39	-57.42	97.29	-57.42	0.00	0.00	0.00
3,000.00	10.00	120.55	2,989.87	-66.24	112.24	-66.24	0.00	0.00	0.00
3,100.00	10.00	120.55	3,088.35	-75.07	127.19	-75.07	0.00	0.00	0.00
3,200.00	10.00	120.55	3,186.83	-83.89	142.15	-83.89	0.00	0.00	0.00
3,300.00	10.00	120.55	3,285.32	-92.72	157.10	-92.72	0.00	0.00	0.00
3,400.00	10.00	120.55	3,383.80	-101.54	172.05	-101.54	0.00	0.00	0.00
3,500.00	10.00	120.55	3,482.28	-110.37	187.00	-110.37	0.00	0.00	0.00
3,600.00	10.00	120.55	3,580.76	-119.19	201.95	-119.19	0.00	0.00	0.00
3,700.00	10.00	120.55	3,679.24	-128.02	216.91	-128.02	0.00	0.00	0.00
3,800.00	10.00	120.55	3,777.72	-136.84	231.86	-136.84	0.00	0.00	0.00
3,900.00	10.00	120.55	3,876.20	-145.67	246.81	-145.67	0.00	0.00	0.00
4,000.00	10.00	120.55	3,974.68	-154.49	261.76	-154.49	0.00	0.00	0.00
4,100.00	10.00	120.55	4,073.17	-163.32	276.71	-163.32	0.00	0.00	0.00
4,200.00	10.00	120.55	4,171.65	-172.14	291.67	-172.14	0.00	0.00	0.00
4,300.00	10.00	120.55	4,270.13	-180.96	306.62	-180.96	0.00	0.00	0.00
4,400.00	10.00	120.55	4,368.61	-189.79	321.57	-189.79	0.00	0.00	0.00
4,500.00	10.00	120.55	4,467.09	-198.61	336.52	-198.61	0.00	0.00	0.00
4,600.00	10.00	120.55	4,565.57	-207.44	351.47	-207.44	0.00	0.00	0.00
4,700.00	10.00	120.55	4,664.05	-216.26	366.43	-216.26	0.00	0.00	0.00
4,800.00	10.00	120.55	4,762.53	-225.09	381.38	-225.09	0.00	0.00	0.00
4,827.50	10.00	120.55	4,789.62	-227.51	385.49	-227.51	0.00	0.00	0.00
Begin 2.00°/100' Drop									



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Fizzle Fry BS Fed Com 502H
Company:	Marathon Oil	TVD Reference:	WELL @ 3667.50usft (Precision 580)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3667.50usft (Precision 580)
Site:	Fizzle Fry BS Fed Com (501H, 502H)	North Reference:	Grid
Well:	Fizzle Fry BS Fed Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.00	8.55	120.55	4,861.17	-233.45	395.55	-233.45	2.00	-2.00	0.00
5,000.00	6.55	120.55	4,960.30	-240.13	406.86	-240.13	2.00	-2.00	0.00
5,100.00	4.55	120.55	5,059.82	-245.04	415.19	-245.04	2.00	-2.00	0.00
5,200.00	2.55	120.55	5,159.63	-248.19	420.52	-248.19	2.00	-2.00	0.00
5,300.00	0.55	120.55	5,259.58	-249.56	422.85	-249.56	2.00	-2.00	0.00
5,327.42	0.00	0.00	5,287.00	-249.63	422.96	-249.63	2.00	-2.00	-439.70
Begin Vertical Hold									
5,400.00	0.00	0.00	5,359.58	-249.63	422.96	-249.63	0.00	0.00	0.00
5,500.00	0.00	0.00	5,459.58	-249.63	422.96	-249.63	0.00	0.00	0.00
5,600.00	0.00	0.00	5,559.58	-249.63	422.96	-249.63	0.00	0.00	0.00
5,700.00	0.00	0.00	5,659.58	-249.63	422.96	-249.63	0.00	0.00	0.00
5,800.00	0.00	0.00	5,759.58	-249.63	422.96	-249.63	0.00	0.00	0.00
5,900.00	0.00	0.00	5,859.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,000.00	0.00	0.00	5,959.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,100.00	0.00	0.00	6,059.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,200.00	0.00	0.00	6,159.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,300.00	0.00	0.00	6,259.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,400.00	0.00	0.00	6,359.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,500.00	0.00	0.00	6,459.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,600.00	0.00	0.00	6,559.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,700.00	0.00	0.00	6,659.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,800.00	0.00	0.00	6,759.58	-249.63	422.96	-249.63	0.00	0.00	0.00
6,900.00	0.00	0.00	6,859.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,000.00	0.00	0.00	6,959.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,100.00	0.00	0.00	7,059.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,200.00	0.00	0.00	7,159.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,300.00	0.00	0.00	7,259.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,400.00	0.00	0.00	7,359.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,500.00	0.00	0.00	7,459.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,600.00	0.00	0.00	7,559.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,700.00	0.00	0.00	7,659.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,800.00	0.00	0.00	7,759.58	-249.63	422.96	-249.63	0.00	0.00	0.00
7,900.00	0.00	0.00	7,859.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,000.00	0.00	0.00	7,959.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,100.00	0.00	0.00	8,059.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,200.00	0.00	0.00	8,159.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,300.00	0.00	0.00	8,259.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,400.00	0.00	0.00	8,359.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,500.00	0.00	0.00	8,459.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,600.00	0.00	0.00	8,559.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,700.00	0.00	0.00	8,659.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,800.00	0.00	0.00	8,759.58	-249.63	422.96	-249.63	0.00	0.00	0.00
8,900.00	0.00	0.00	8,859.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,000.00	0.00	0.00	8,959.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,100.00	0.00	0.00	9,059.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,200.00	0.00	0.00	9,159.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,300.00	0.00	0.00	9,259.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,400.00	0.00	0.00	9,359.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,500.00	0.00	0.00	9,459.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,600.00	0.00	0.00	9,559.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,700.00	0.00	0.00	9,659.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,800.00	0.00	0.00	9,759.58	-249.63	422.96	-249.63	0.00	0.00	0.00
9,900.00	0.00	0.00	9,859.58	-249.63	422.96	-249.63	0.00	0.00	0.00
10,000.00	0.00	0.00	9,959.58	-249.63	422.96	-249.63	0.00	0.00	0.00



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Fizzle Fry BS Fed Com 502H
Company:	Marathon Oil	TVD Reference:	WELL @ 3667.50usft (Precision 580)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3667.50usft (Precision 580)
Site:	Fizzle Fry BS Fed Com (501H, 502H)	North Reference:	Grid
Well:	Fizzle Fry BS Fed Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,100.00	0.00	0.00	10,059.58	-249.63	422.96	-249.63	0.00	0.00	0.00
10,167.46	0.00	0.00	10,127.04	-249.63	422.96	-249.63	0.00	0.00	0.00
KOP, 10.00°/100' Build									
10,200.00	3.25	359.62	10,159.57	-248.70	422.95	-248.70	10.00	10.00	0.00
10,250.00	8.25	359.62	10,209.30	-243.69	422.92	-243.69	10.00	10.00	0.00
10,300.00	13.25	359.62	10,258.40	-234.37	422.86	-234.37	10.00	10.00	0.00
10,350.00	18.25	359.62	10,306.51	-220.80	422.77	-220.80	10.00	10.00	0.00
10,400.00	23.25	359.62	10,353.25	-203.08	422.65	-203.08	10.00	10.00	0.00
10,450.00	28.25	359.62	10,398.27	-181.37	422.51	-181.37	10.00	10.00	0.00
10,500.00	33.25	359.62	10,441.23	-155.81	422.34	-155.81	10.00	10.00	0.00
10,550.00	38.25	359.62	10,481.79	-126.60	422.15	-126.60	10.00	10.00	0.00
10,600.00	43.25	359.62	10,519.65	-93.97	421.93	-93.97	10.00	10.00	0.00
10,650.00	48.25	359.62	10,554.53	-58.17	421.70	-58.17	10.00	10.00	0.00
10,700.00	53.25	359.62	10,586.15	-19.46	421.44	-19.46	10.00	10.00	0.00
10,750.00	58.25	359.62	10,614.28	21.86	421.17	21.86	10.00	10.00	0.00
10,800.00	63.25	359.62	10,638.70	65.47	420.88	65.47	10.00	10.00	0.00
10,850.00	68.25	359.62	10,659.23	111.05	420.58	111.05	10.00	10.00	0.00
10,900.00	73.25	359.62	10,675.70	158.24	420.27	158.24	10.00	10.00	0.00
10,950.00	78.25	359.62	10,688.00	206.68	419.95	206.68	10.00	10.00	0.00
11,000.00	83.25	359.62	10,696.03	256.02	419.63	256.02	10.00	10.00	0.00
11,050.00	88.25	359.62	10,699.73	305.86	419.30	305.86	10.00	10.00	0.00
11,067.46	90.00	359.62	10,700.00	323.32	419.18	323.32	10.00	10.00	0.00
Begin 90.00° Lateral									
11,100.00	90.00	359.62	10,700.00	355.86	418.97	355.86	0.00	0.00	0.00
11,200.00	90.00	359.62	10,700.00	455.86	418.31	455.86	0.00	0.00	0.00
11,300.00	90.00	359.62	10,700.00	555.85	417.65	555.85	0.00	0.00	0.00
11,400.00	90.00	359.62	10,700.00	655.85	416.99	655.85	0.00	0.00	0.00
11,500.00	90.00	359.62	10,700.00	755.85	416.33	755.85	0.00	0.00	0.00
11,600.00	90.00	359.62	10,700.00	855.85	415.67	855.85	0.00	0.00	0.00
11,700.00	90.00	359.62	10,700.00	955.84	415.01	955.84	0.00	0.00	0.00
11,800.00	90.00	359.62	10,700.00	1,055.84	414.35	1,055.84	0.00	0.00	0.00
11,900.00	90.00	359.62	10,700.00	1,155.84	413.69	1,155.84	0.00	0.00	0.00
12,000.00	90.00	359.62	10,700.00	1,255.84	413.03	1,255.84	0.00	0.00	0.00
12,100.00	90.00	359.62	10,700.00	1,355.84	412.37	1,355.84	0.00	0.00	0.00
12,200.00	90.00	359.62	10,700.00	1,455.83	411.72	1,455.83	0.00	0.00	0.00
12,300.00	90.00	359.62	10,700.00	1,555.83	411.06	1,555.83	0.00	0.00	0.00
12,400.00	90.00	359.62	10,700.00	1,655.83	410.40	1,655.83	0.00	0.00	0.00
12,500.00	90.00	359.62	10,700.00	1,755.83	409.74	1,755.83	0.00	0.00	0.00
12,600.00	90.00	359.62	10,700.00	1,855.83	409.08	1,855.83	0.00	0.00	0.00
12,700.00	90.00	359.62	10,700.00	1,955.82	408.42	1,955.82	0.00	0.00	0.00
12,800.00	90.00	359.62	10,700.00	2,055.82	407.76	2,055.82	0.00	0.00	0.00
12,900.00	90.00	359.62	10,700.00	2,155.82	407.10	2,155.82	0.00	0.00	0.00
13,000.00	90.00	359.62	10,700.00	2,255.82	406.44	2,255.82	0.00	0.00	0.00
13,100.00	90.00	359.62	10,700.00	2,355.81	405.78	2,355.81	0.00	0.00	0.00
13,200.00	90.00	359.62	10,700.00	2,455.81	405.12	2,455.81	0.00	0.00	0.00
13,300.00	90.00	359.62	10,700.00	2,555.81	404.46	2,555.81	0.00	0.00	0.00
13,400.00	90.00	359.62	10,700.00	2,655.81	403.80	2,655.81	0.00	0.00	0.00
13,500.00	90.00	359.62	10,700.00	2,755.81	403.14	2,755.81	0.00	0.00	0.00
13,600.00	90.00	359.62	10,700.00	2,855.80	402.49	2,855.80	0.00	0.00	0.00
13,700.00	90.00	359.62	10,700.00	2,955.80	401.83	2,955.80	0.00	0.00	0.00
13,800.00	90.00	359.62	10,700.00	3,055.80	401.17	3,055.80	0.00	0.00	0.00
13,900.00	90.00	359.62	10,700.00	3,155.80	400.51	3,155.80	0.00	0.00	0.00
14,000.00	90.00	359.62	10,700.00	3,255.79	399.85	3,255.79	0.00	0.00	0.00
14,100.00	90.00	359.62	10,700.00	3,355.79	399.19	3,355.79	0.00	0.00	0.00



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Fizzle Fry BS Fed Com 502H
Company:	Marathon Oil	TVD Reference:	WELL @ 3667.50usft (Precision 580)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3667.50usft (Precision 580)
Site:	Fizzle Fry BS Fed Com (501H, 502H)	North Reference:	Grid
Well:	Fizzle Fry BS Fed Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.00	90.00	359.62	10,700.00	3,455.79	398.53	3,455.79	0.00	0.00	0.00
14,300.00	90.00	359.62	10,700.00	3,555.79	397.87	3,555.79	0.00	0.00	0.00
14,400.00	90.00	359.62	10,700.00	3,655.79	397.21	3,655.79	0.00	0.00	0.00
14,500.00	90.00	359.62	10,700.00	3,755.78	396.55	3,755.78	0.00	0.00	0.00
14,600.00	90.00	359.62	10,700.00	3,855.78	395.89	3,855.78	0.00	0.00	0.00
14,700.00	90.00	359.62	10,700.00	3,955.78	395.23	3,955.78	0.00	0.00	0.00
14,800.00	90.00	359.62	10,700.00	4,055.78	394.57	4,055.78	0.00	0.00	0.00
14,900.00	90.00	359.62	10,700.00	4,155.78	393.91	4,155.78	0.00	0.00	0.00
15,000.00	90.00	359.62	10,700.00	4,255.77	393.25	4,255.77	0.00	0.00	0.00
15,100.00	90.00	359.62	10,700.00	4,355.77	392.60	4,355.77	0.00	0.00	0.00
15,200.00	90.00	359.62	10,700.00	4,455.77	391.94	4,455.77	0.00	0.00	0.00
15,300.00	90.00	359.62	10,700.00	4,555.77	391.28	4,555.77	0.00	0.00	0.00
15,400.00	90.00	359.62	10,700.00	4,655.76	390.62	4,655.76	0.00	0.00	0.00
15,500.00	90.00	359.62	10,700.00	4,755.76	389.96	4,755.76	0.00	0.00	0.00
15,600.00	90.00	359.62	10,700.00	4,855.76	389.30	4,855.76	0.00	0.00	0.00
15,700.00	90.00	359.62	10,700.00	4,955.76	388.64	4,955.76	0.00	0.00	0.00
15,800.00	90.00	359.62	10,700.00	5,055.76	387.98	5,055.76	0.00	0.00	0.00
15,900.00	90.00	359.62	10,700.00	5,155.75	387.32	5,155.75	0.00	0.00	0.00
16,000.00	90.00	359.62	10,700.00	5,255.75	386.66	5,255.75	0.00	0.00	0.00
16,100.00	90.00	359.62	10,700.00	5,355.75	386.00	5,355.75	0.00	0.00	0.00
16,200.00	90.00	359.62	10,700.00	5,455.75	385.34	5,455.75	0.00	0.00	0.00
16,300.00	90.00	359.62	10,700.00	5,555.74	384.68	5,555.74	0.00	0.00	0.00
16,400.00	90.00	359.62	10,700.00	5,655.74	384.02	5,655.74	0.00	0.00	0.00
16,500.00	90.00	359.62	10,700.00	5,755.74	383.36	5,755.74	0.00	0.00	0.00
16,600.00	90.00	359.62	10,700.00	5,855.74	382.71	5,855.74	0.00	0.00	0.00
16,700.00	90.00	359.62	10,700.00	5,955.74	382.05	5,955.74	0.00	0.00	0.00
16,800.00	90.00	359.62	10,700.00	6,055.73	381.39	6,055.73	0.00	0.00	0.00
16,900.00	90.00	359.62	10,700.00	6,155.73	380.73	6,155.73	0.00	0.00	0.00
17,000.00	90.00	359.62	10,700.00	6,255.73	380.07	6,255.73	0.00	0.00	0.00
17,100.00	90.00	359.62	10,700.00	6,355.73	379.41	6,355.73	0.00	0.00	0.00
17,200.00	90.00	359.62	10,700.00	6,455.73	378.75	6,455.73	0.00	0.00	0.00
17,300.00	90.00	359.62	10,700.00	6,555.72	378.09	6,555.72	0.00	0.00	0.00
17,400.00	90.00	359.62	10,700.00	6,655.72	377.43	6,655.72	0.00	0.00	0.00
17,500.00	90.00	359.62	10,700.00	6,755.72	376.77	6,755.72	0.00	0.00	0.00
17,600.00	90.00	359.62	10,700.00	6,855.72	376.11	6,855.72	0.00	0.00	0.00
17,700.00	90.00	359.62	10,700.00	6,955.71	375.45	6,955.71	0.00	0.00	0.00
17,800.00	90.00	359.62	10,700.00	7,055.71	374.79	7,055.71	0.00	0.00	0.00
17,900.00	90.00	359.62	10,700.00	7,155.71	374.13	7,155.71	0.00	0.00	0.00
18,000.00	90.00	359.62	10,700.00	7,255.71	373.48	7,255.71	0.00	0.00	0.00
18,100.00	90.00	359.62	10,700.00	7,355.71	372.82	7,355.71	0.00	0.00	0.00
18,200.00	90.00	359.62	10,700.00	7,455.70	372.16	7,455.70	0.00	0.00	0.00
18,300.00	90.00	359.62	10,700.00	7,555.70	371.50	7,555.70	0.00	0.00	0.00
18,400.00	90.00	359.62	10,700.00	7,655.70	370.84	7,655.70	0.00	0.00	0.00
18,500.00	90.00	359.62	10,700.00	7,755.70	370.18	7,755.70	0.00	0.00	0.00
18,600.00	90.00	359.62	10,700.00	7,855.69	369.52	7,855.69	0.00	0.00	0.00
18,700.00	90.00	359.62	10,700.00	7,955.69	368.86	7,955.69	0.00	0.00	0.00
18,800.00	90.00	359.62	10,700.00	8,055.69	368.20	8,055.69	0.00	0.00	0.00
18,900.00	90.00	359.62	10,700.00	8,155.69	367.54	8,155.69	0.00	0.00	0.00
19,000.00	90.00	359.62	10,700.00	8,255.69	366.88	8,255.69	0.00	0.00	0.00
19,100.00	90.00	359.62	10,700.00	8,355.68	366.22	8,355.68	0.00	0.00	0.00
19,200.00	90.00	359.62	10,700.00	8,455.68	365.56	8,455.68	0.00	0.00	0.00
19,300.00	90.00	359.62	10,700.00	8,555.68	364.90	8,555.68	0.00	0.00	0.00
19,400.00	90.00	359.62	10,700.00	8,655.68	364.24	8,655.68	0.00	0.00	0.00
19,500.00	90.00	359.62	10,700.00	8,755.68	363.59	8,755.68	0.00	0.00	0.00



MS Directional Planning Report



Database:	EDM 5000.15 Conroe DB	Local Co-ordinate Reference:	Well Fizzle Fry BS Fed Com 502H
Company:	Marathon Oil	TVD Reference:	WELL @ 3667.50usft (Precision 580)
Project:	Lea County, New Mexico (NAD 27)	MD Reference:	WELL @ 3667.50usft (Precision 580)
Site:	Fizzle Fry BS Fed Com (501H, 502H)	North Reference:	Grid
Well:	Fizzle Fry BS Fed Com 502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,600.00	90.00	359.62	10,700.00	8,855.67	362.93	8,855.67	0.00	0.00	0.00
19,700.00	90.00	359.62	10,700.00	8,955.67	362.27	8,955.67	0.00	0.00	0.00
19,800.00	90.00	359.62	10,700.00	9,055.67	361.61	9,055.67	0.00	0.00	0.00
19,900.00	90.00	359.62	10,700.00	9,155.67	360.95	9,155.67	0.00	0.00	0.00
20,000.00	90.00	359.62	10,700.00	9,255.66	360.29	9,255.66	0.00	0.00	0.00
20,100.00	90.00	359.62	10,700.00	9,355.66	359.63	9,355.66	0.00	0.00	0.00
20,200.00	90.00	359.62	10,700.00	9,455.66	358.97	9,455.66	0.00	0.00	0.00
20,300.00	90.00	359.62	10,700.00	9,555.66	358.31	9,555.66	0.00	0.00	0.00
20,400.00	90.00	359.62	10,700.00	9,655.66	357.65	9,655.66	0.00	0.00	0.00
20,500.00	90.00	359.62	10,700.00	9,755.65	356.99	9,755.65	0.00	0.00	0.00
20,600.00	90.00	359.62	10,700.00	9,855.65	356.33	9,855.65	0.00	0.00	0.00
20,700.00	90.00	359.62	10,700.00	9,955.65	355.67	9,955.65	0.00	0.00	0.00
20,800.00	90.00	359.62	10,700.00	10,055.65	355.01	10,055.65	0.00	0.00	0.00
20,906.87	90.00	359.62	10,700.00	10,162.51	354.31	10,162.51	0.00	0.00	0.00
PBHL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP/PPP-1_F.F. BS 5 - hit/miss target - Shape - plan misses target center by 467.41usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-199.63	422.63	498,996.15	706,257.64	32° 22' 12.309 N	103° 39' 55.023 W
Vert v1_F.F. BS 502H - plan hits target center - Point	0.00	0.00	5,287.00	-249.63	422.96	498,946.15	706,257.97	32° 22' 11.814 N	103° 39' 55.022 W
KOP v1_F.F. BS 502H - plan hits target center - Point	0.00	0.00	10,127.04	-249.63	422.96	498,946.15	706,257.97	32° 22' 11.814 N	103° 39' 55.022 W
LTP/PBHL_F.F. BS 50 - plan hits target center - Point	0.00	0.00	10,700.00	10,162.51	354.31	509,358.29	706,189.32	32° 23' 54.851 N	103° 39' 55.065 W
PPP-2_F.F. BS 502H - plan hits target center - Point	0.00	0.00	10,700.00	4,981.22	388.47	504,177.00	706,223.48	32° 23' 3.578 N	103° 39' 55.044 W

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.00	2,000.00	0.00	0.00	KOP, 2.00°/100' Build
2,499.92	2,497.38	-22.11	37.47	Begin 10.00° Tangent
4,827.50	4,789.62	-227.51	385.49	Begin 2.00°/100' Drop
5,327.42	5,287.00	-249.63	422.96	Begin Vertical Hold
10,167.46	10,127.04	-249.63	422.96	KOP, 10.00°/100' Build
11,067.46	10,700.00	323.32	419.18	Begin 90.00° Lateral
20,906.87	10,700.00	10,162.51	354.31	PBHL

District I
1625 N. French Dr., Hobbs, NM 88240
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District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 319623

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 319623
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	3/15/2024