

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 <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No. NMNM077058
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☒ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No. FRIZZLE FRY BS FEDERAL COM/5
2. Name of Operator MARATHON OIL PERMIAN LLC		9. API Well No. 3002549553
3a. Address 990 TOWN & COUNTRY BLVD, HOUSTON, TX	3b. Phone No. (include area code) (713) 296-2113	10. Field and Pool or Exploratory Area RED TANK/BONE SPRING
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description) SEC 22/T22S/R32E/NMP		11. Country or Parish, State LEA/NM

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.)

Marathon Oil Permian respectfully requests approval to change the BHL for the Frizzle Fry BS Federal Com #501H as follows:
Approved BHL: 100' FNL & 330' FWL Sec. 15-22S-32E
Proposed BHL: 100' FNL & 509' FWL Sec. 15-22S-32E
Anticollision concerns required a lateral path move & BHL move of ~ 180'.
Please see revised directional plan, revised drill plan & revised C102.

NMOCD: Please change name from Frizzle Fry 22 FB Fed Com #28H to Frizzle Fry BS Federal Com #501H - name change approved on 3/15/2024 but not updated on OCD website.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) TERRI STATHEM / Ph: (713) 296-2113	Title Regulatory Compliance Manager
Signature (Electronic Submission)	Date 06/13/2024

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by KEITH P IMMATTY / Ph: (575) 988-4722 / Accepted	Title ENGINEER	Date 06/17/2024
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 CARLSBAD	

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

Location of Well

0. SHL: SWSW / 305 FSL / 1198 FWL / TWSP: 22S / RANGE: 32E / SECTION: 22 / LAT: 32.3707656 / LONG: -103.6672323 (TVD: 0 feet, MD: 0 feet)

PPP: SWSW / 100 FSL / 330 FWL / TWSP: 22S / RANGE: 32E / SECTION: 22 / LAT: 32.3701879 / LONG: -103.6700448 (TVD: 9400 feet, MD: 9475 feet)

PPP: SWSW / 0 FNL / 330 FWL / TWSP: 22S / RANGE: 32E / SECTION: 15 / LAT: 32.3844318 / LONG: -103.6700519 (TVD: 9834 feet, MD: 15200 feet)

BHL: NWNW / 100 FNL / 330 FWL / TWSP: 22S / RANGE: 32E / SECTION: 15 / LAT: 32.3986739 / LONG: -103.6700591 (TVD: 9791 feet, MD: 20111 feet)

CONFIDENTIAL

Well Name: FRIZZLE FRY BS FEDERAL COM	Well Location: T22S / R32E / SEC 22 / SWSW / 32.3707656 / -103.6672323	County or Parish/State: LEA / NM
Well Number: 501H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM077058	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002549553	Operator: MARATHON OIL PERMIAN LLC	

Notice of Intent

Sundry ID: 2795380

Type of Submission: Notice of Intent

Type of Action: Drilling Operations

Date Sundry Submitted: 06/13/2024

Time Sundry Submitted: 03:42

Date proposed operation will begin: 06/13/2024

Procedure Description: Marathon Oil Permian respectfully requests approval to change the BHL for the Frizzle Fry BS Federal Com #501H as follows: Approved BHL: 100' FNL & 330' FWL Sec. 15-22S-32E Proposed BHL: 100' FNL & 509' FWL Sec. 15-22S-32E Anticollision concerns required a lateral path move & BHL move of ~ 180'. Please see revised directional plan, revised drill plan & revised C102. NMOCD: Please change name from Frizzle Fry 22 FB Fed Com #28H to Frizzle Fry BS Federal Com #501H - name change approved on 3/15/2024 but not updated on OCD website.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

C102R_Frizzle_Fry_501H_20240613153557.pdf

3160_Frizzle_Fry_BS_Fed_Com_501H_Drill_Plan_20240613153555.pdf

3160_Frizzle_Fry_BS_Fed_Com_501H_Dir_Plan_20240613153553.pdf

Well Name: PRIZZLE #1 BS
FEDERAL COM

Well Location: T22S / R32E / SEC 22 /
SWSW / 32.3707656 / -103.6672323

County or Parish/State: LEA /
NM

Well Number: 501H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM077058

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549553

Operator: MARATHON OIL PERMIAN
LLC

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: JUN 13, 2024 03:41 PM

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: Accepted

Disposition Date: 06/16/2024

Signature: Keith Immatty

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 30-025-49553	² Pool Code 51683	³ Pool Name RED TANK; BONE SPRING
⁴ Property Code 335615	⁵ Property Name FRIZZLE FRY BS FEDERAL COM	⁶ Well Number 501H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3644'

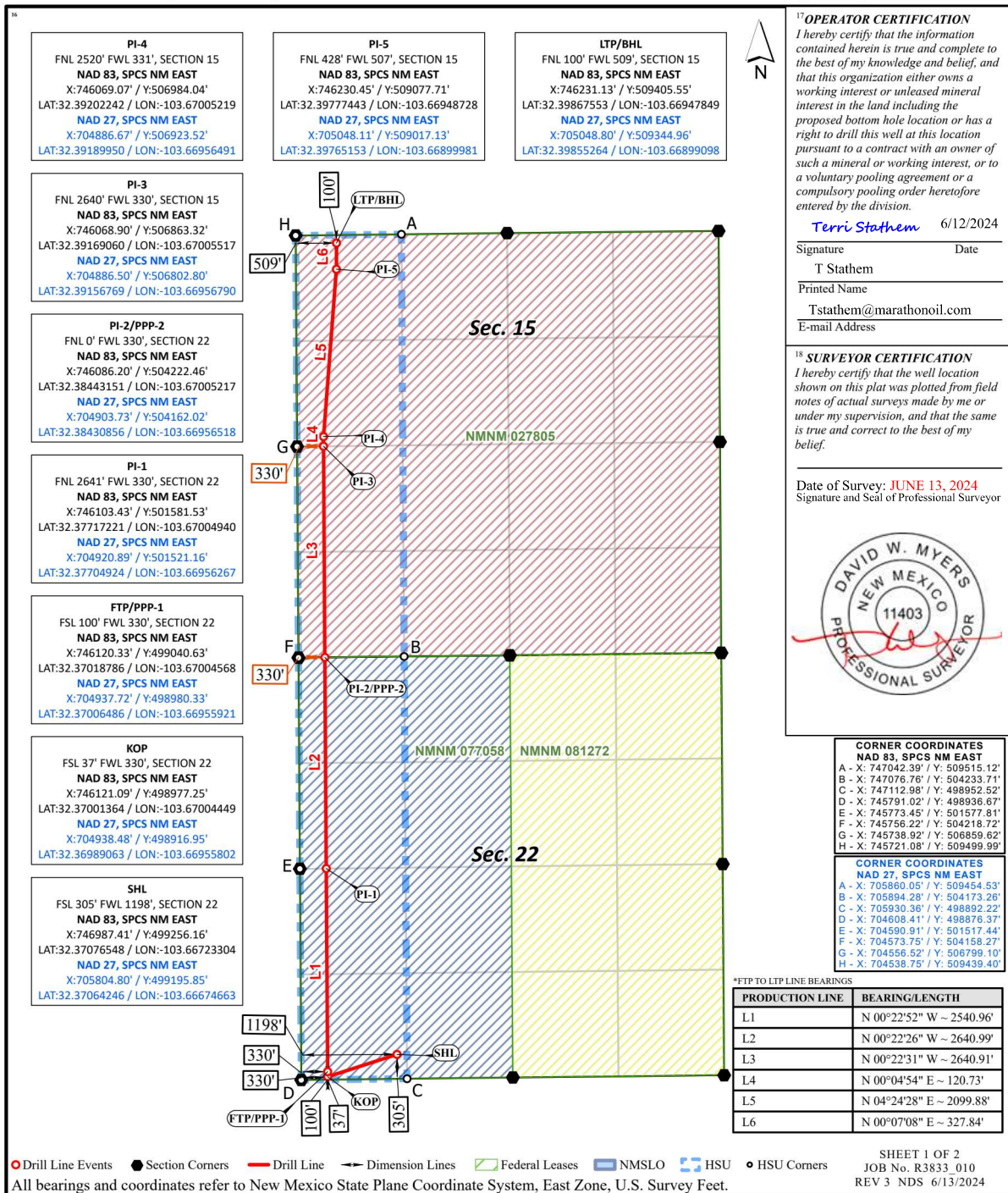
¹⁰ Surface Location

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	1198'	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
D	15	22S	32E		100'	NORTH	509'	WEST	LEA
¹² Dedicated Acres 320.00	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.



MARATHON OIL PERMIAN, LLC.
DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER: **FRIZZLE FRY BS FEDERAL COM 501H**
LOCATION: SECTION **22** TOWNSHIP **22S** RANGE **32E**
LEA COUNTY, **NEW MEXICO**

Section 1: GEOLOGICAL FORMATIONS

Name of Surface Formation: Permian
Elevation: 3644 feet

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	803	830	2841	Anhydrite	Brine	No
Salado	1104	1131	2540	Salt/Anhydrite	Brine	No
Castile	2458	2485	1186	Salt/Anhydrite	Brine	No
Base of Salt (BX)	4641	4668	-997	Salt/Anhydrite	Brine	No
Lamar	4641	4668	-997	Sandstone/Shale	None	No
Bell Canyon	4716	4743	-1072	Sandstone	Oil	No
Cherry Canyon	5647	5674	-2003	Sandstone	Oil	No
Brushy Canyon	6738	6765	-3094	Sandstone	Oil	No
Bone Spring Lime	8605	8632	-4961	Limestone	None	No
Upper Avalon Shale	9034	9061	-5390	Shale	Oil	Yes
1st Bone Spring Sand	9682	9709	-6038	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	9976	10003	-6332	Limestone/Shale	None	No
2nd Bone Spring Sand	10374	10401	-6730	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	10775	10802	-7131	Limestone	Oil	No
3rd Bone Spring Sand	11459	11486	-7815	Sandstone	Oil	Yes
Wolfcamp	11816	11843	-8172	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	11953	11980	-8309	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	12176	12203	-8532	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	12375	12402	-8731	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp D	12476	12503	-8832	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Strawn	13337	13364	-9693	Carbonates/Sands/Clays	Natural Gas	Possible

Section 2: BLOWOUT PREVENTER TESTING PROCEDURE

Pressure Rating (PSI): 10M
Rating Depth: 10000
Equipment: 13 5/8 BOP Annular (5,000 psi WP) and BOP Stack (10,000 psi WP) will be installed and tested before drilling all holes.

Requesting Variance? Yes
Variance Request: A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.

Testing Procedure: BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stacking before drilling the intermediate hole, 10,000psi for the BOP Stacking before drilling the production hole. Testing will be conducted by an independent service company per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description above. If the system is upgraded all the components installed will be functional and tested.
Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock, full opening safety valve / inside BOP and choke lines and choke manifold. See attached schematics.
Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

Section 3:

CASING PROGRAM

String Type	Hole Size	Casing Size	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Weight (lbs/ft)	Grade	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
Surface	17.5	13.375	0	855	0	828	3644	2816	54.5	J55	BTC	5.22	1.81	BUOY	4.52	BUOY	4.52
Intermediate	12.25	9.625	0	10103 5/6	0	10027	3644	-6383	40	P110HC	BTC	1.20	1.42	BUOY	2.44	BUOY	2.44
Production	8.75	5.5	0	20928	0	10700	3644	-7056	23	P110HC	TLW	2.53	1.26	BUOY	2.22	BUOY	2.22
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h												Safety Factors will Meet or Exceed					

Casing Condition: New
Casing Standard: API
Tapered String? No

Yes or No	
Is casing new? If used, attach certification as required in Onshore Order #1.	Yes
Does casing meet API specifications? If no, attach casing specification sheet.	Yes
Is premium or uncommon casing planned? If yes attach casing specification sheet.	No
Does the above casing design meet or exceed BLM’s minimum standards? If not provide justification (loading assumptions, casing design criteria).	Yes
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Yes
Is well located within Capitan Reef?	No
If yes, does production casing cement tie back a minimum of 50’ above the Reef?	
Is proposed well within the designated four string boundary?	
Is well located in R-111-P and SOPA?	No
If yes, are the first three strings cemented to surface?	
Is the second string set 100’ to 600’ below the base of salt?	
Is well located in SOPA but not in R-111-P?	No
If yes, are the first 2 strings cemented to surface and third string cement tied back 500’ into previous casing?	
Is well located in high Cave/Karst?	No
If yes, are there two strings cemented to surface?	
If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	No
If yes, are there three strings cemented to surface?	

Section 4:

CEMENT PROGRAM

String Type	Lead/Tail	Top MD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	705	312	2.12	12.5	661	25	Class C	Extender, Accelerator, LCM
Surface	Tail	705	855	99	1.32	14.8	130	25	Class C	Accelerator
Intermediate	Lead	0	9604	1749	2.18	12.4	3813	25	Class C	Extender, Accelerator, LCM
Intermediate	Tail	9604	10104	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	9804	20928	2131	1.68	13	3581	25	Class H	Retarder, Extender, Fluid Loss, Suspension Agent

Stage tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Stage tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Pilot Hole? No
Pilot Hole Depth: N/A
KOP Depth: N/A
Plugging Procedure for Pilot Hole: N/A

Plug Top	Plug Bottom	Excess (%)	Quantity (sx)	Density (ppg)	Yield (ft3/sks)	Water gal/sk	Slurry Description and Cement Type

Section 5: CIRCULATING MEDIUM

Mud System Type: Closed
Will an air or gas system be used? No

Describe what will be on location to control well or mitigate other conditions:
The necessary mud products for additional weight and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized:
Losses or gains in the mud system will be monitored visually/manually as well as with an electronic PVT.

Circulating Medium Table:

Top Depth	Bottom Depth	Mud Type	Min. Weight (ppg)	Max Weight (ppg)
0	855	Water Based Mud	8.4	8.8
855	10103.82	Brine or Oil Based Mud	9.2	10.2
10103.82	20928	Oil Based Mud	10.5	12.5

Section 6: TESTING, LOGGING, CORING

List of production tests including testing procedures, equipment and safety measures:
GR from TD to surface (horizontal well - vertical portion of hole)

List of open and cased hole logs run in the well:
GR while drilling from Intermediate casing shoe to TD.

Coring operation description for the well:
Run gamma-ray (GR) and corrected neutron log (CNL) or analogous to surface for future development of the area, one per shared well pad not to exceed 200' radial distance.

Section 7: ANTICIPATED PRESSURE

Anticipated Bottom Hole Pressure: 6955 PSI
Anticipated Bottom Hole Temperature: 195 °F
Anticipated Abnormal Pressure? No
Anticipated Abnormal Temperature? No

Potential Hazards:
H2S detection equipment will be in operation after drilling out the surface casing shoe until the production casing has been cemented. Breathing equipment will be on location from drilling out the surface shoe until production casing is cemented. If H2S is encountered the operator will comply with Onshore Order #6. Adequate flare lines will be installed off the mud/gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. See attached H2S Contingency Plan.

Section 8: OTHER INFORMATION

Auxiliary Well Control and Monitoring Equipment:
A Kelly cock will be in the drill string at all times. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor unobstructed and readily accessible at all times.
Hydrogen Sulfide detection equipment will be in operation after drilling out the surface casing shoe until the production casing is cemented. Breathing equipment will be on location upon drilling the surface casing shoe until total depth is reached. If Hydrogen Sulfide is encountered, measured amounts and formations will be reported to the BLM.

Anticipated Starting Date and Duration of Operations:
Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon as possible after BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 30 days.

DRILL PLAN CHANGE REGISTER

FRIZZLE FRY BS FEDERAL COM 501H
SECTION 22, TOWNSHIP 22S, RANGE 32E
LEA COUNTY, NEW MEXICO

Original Document Date: Monday, January 8, 2024
Prepared By: Anthony Monaco
Submitted By: Adrian Covarrubias

Revised Date:	Monday, October 18, 2021	Submittal Date:	Monday, November 1, 2021
Revised By:	Court Nelson (Drilling Engineer)	Submittal Type:	NOI Change to AAPD Sundry Notice
	Matt Baker (Geologist)	Submitted By:	Melissa Szudera

Summary of Revisions:

Section	Description
2 - Casing	Removed second intermediate string
4 - Cement	Removed second intermediate string
5 - Mud	Removed second intermediate string

Revised Date:		Submittal Date:	
Revised By:		Submittal Type:	
		Submitted By:	

Summary of Revisions:

Section	Description

Revised Date:		Submittal Date:	
Revised By:		Submittal Type:	
		Submitted By:	

Summary of Revisions:

Section	Description

Revised Date:		Submittal Date:	
Revised By:		Submittal Type:	
		Submitted By:	

Summary of Revisions:

Section	Description



Marathon Oil Permian LLC

Lea County, NM (NAD27 NME)

Frizzle Fry

Frizzle Fry BS Fed Com 501H

OH

Plan: Plan 1 05-29-24

Standard Planning Report

29 May, 2024





Phoenix
Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Frizzle Fry BS Fed Com 501H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3667.60usft (Cactus 171)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3667.60usft (Cactus 171)
Site:	Frizzle Fry	North Reference:	Grid
Well:	Frizzle Fry BS Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-29-24		

Project	Lea County, NM (NAD27 NME)		
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	Frizzle Fry				
Site Position:		Northing:	499,195.85 usft	Latitude:	32° 22' 14.312835 N
From:	Map	Easting:	705,804.80 usft	Longitude:	103° 40' 0.287856 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Frizzle Fry BS Fed Com 501H					
Well Position	+N/-S	0.00 usft	Northing:	499,195.85 usft	Latitude:	32° 22' 14.312835 N
	+E/-W	0.00 usft	Easting:	705,804.80 usft	Longitude:	103° 40' 0.287856 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,644.00 usft
Grid Convergence:		0.357 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	7/22/24	6.235	59.933	47,487.58050061

Design	Plan 1 05-29-24				
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	359.62	

Plan Survey Tool Program	Date	5/29/24			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	20,927.88	Plan 1 05-29-24 (OH)	MWD+IFR1+MS	
				OWSG Rev. 2 MWD + IFR1	



Phoenix
Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Frizzle Fry BS Fed Com 501H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3667.60usft (Cactus 171)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3667.60usft (Cactus 171)
Site:	Frizzle Fry	North Reference:	Grid
Well:	Frizzle Fry BS Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-29-24		

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	
4,442.00	0.00	0.00	4,442.00	0.00	0.00	0.00	0.00	0.00	0.000	
4,942.24	10.00	252.19	4,939.70	-13.32	-41.48	2.00	2.00	0.00	252.191	
9,584.22	10.00	252.19	9,511.09	-259.97	-809.29	0.00	0.00	0.00	0.000	
10,274.50	7.00	359.62	10,196.87	-236.13	-866.94	2.00	-0.44	15.56	150.839	
11,104.50	90.00	359.62	10,700.00	332.54	-870.69	10.00	10.00	0.00	0.002	
18,420.50	90.00	359.62	10,700.00	7,648.38	-918.92	0.00	0.00	0.00	0.000	
18,670.21	90.00	4.62	10,700.00	7,897.84	-909.69	2.00	0.00	2.00	90.000	
20,478.05	90.00	4.62	10,700.00	9,699.82	-764.18	0.00	0.00	0.00	0.000	
20,727.88	90.00	359.62	10,700.00	9,949.39	-754.95	2.00	0.00	-2.00	-90.000	
20,927.88	90.00	359.62	10,700.00	10,149.39	-756.28	0.00	0.00	0.00	0.000	



Phoenix Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Frizzle Fry BS Fed Com 501H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3667.60usft (Cactus 171)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3667.60usft (Cactus 171)
Site:	Frizzle Fry	North Reference:	Grid
Well:	Frizzle Fry BS Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-29-24		

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
4,442.00	0.00	0.00	4,442.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
4,500.00	1.16	252.19	4,500.00	-0.18	-0.56	-0.18	2.00	2.00	0.00
4,600.00	3.16	252.19	4,599.92	-1.33	-4.15	-1.30	2.00	2.00	0.00
4,700.00	5.16	252.19	4,699.65	-3.55	-11.05	-3.48	2.00	2.00	0.00
4,800.00	7.16	252.19	4,799.07	-6.83	-21.27	-6.69	2.00	2.00	0.00
4,900.00	9.16	252.19	4,898.05	-11.17	-34.78	-10.94	2.00	2.00	0.00
4,942.24	10.00	252.19	4,939.70	-13.32	-41.48	-13.05	2.00	2.00	0.00
Hold 10.00° Inc at 252.19° Azm									
5,000.00	10.00	252.19	4,996.58	-16.39	-51.03	-16.05	0.00	0.00	0.00
5,100.00	10.00	252.19	5,095.06	-21.71	-67.57	-21.26	0.00	0.00	0.00
5,200.00	10.00	252.19	5,193.54	-27.02	-84.11	-26.46	0.00	0.00	0.00
5,300.00	10.00	252.19	5,292.02	-32.33	-100.65	-31.66	0.00	0.00	0.00
5,400.00	10.00	252.19	5,390.50	-37.65	-117.19	-36.87	0.00	0.00	0.00
5,500.00	10.00	252.19	5,488.98	-42.96	-133.73	-42.07	0.00	0.00	0.00
5,600.00	10.00	252.19	5,587.46	-48.27	-150.27	-47.28	0.00	0.00	0.00
5,700.00	10.00	252.19	5,685.94	-53.59	-166.82	-52.48	0.00	0.00	0.00
5,800.00	10.00	252.19	5,784.42	-58.90	-183.36	-57.68	0.00	0.00	0.00
5,900.00	10.00	252.19	5,882.90	-64.21	-199.90	-62.89	0.00	0.00	0.00
6,000.00	10.00	252.19	5,981.38	-69.53	-216.44	-68.09	0.00	0.00	0.00
6,100.00	10.00	252.19	6,079.86	-74.84	-232.98	-73.29	0.00	0.00	0.00
6,200.00	10.00	252.19	6,178.34	-80.15	-249.52	-78.50	0.00	0.00	0.00
6,300.00	10.00	252.19	6,276.81	-85.47	-266.06	-83.70	0.00	0.00	0.00
6,400.00	10.00	252.19	6,375.29	-90.78	-282.60	-88.90	0.00	0.00	0.00
6,500.00	10.00	252.19	6,473.77	-96.09	-299.14	-94.11	0.00	0.00	0.00
6,600.00	10.00	252.19	6,572.25	-101.41	-315.68	-99.31	0.00	0.00	0.00
6,700.00	10.00	252.19	6,670.73	-106.72	-332.22	-104.52	0.00	0.00	0.00
6,800.00	10.00	252.19	6,769.21	-112.03	-348.76	-109.72	0.00	0.00	0.00
6,900.00	10.00	252.19	6,867.69	-117.35	-365.30	-114.92	0.00	0.00	0.00
7,000.00	10.00	252.19	6,966.17	-122.66	-381.84	-120.13	0.00	0.00	0.00
7,100.00	10.00	252.19	7,064.65	-127.98	-398.39	-125.33	0.00	0.00	0.00
7,200.00	10.00	252.19	7,163.13	-133.29	-414.93	-130.53	0.00	0.00	0.00
7,300.00	10.00	252.19	7,261.61	-138.60	-431.47	-135.74	0.00	0.00	0.00
7,400.00	10.00	252.19	7,360.09	-143.92	-448.01	-140.94	0.00	0.00	0.00
7,500.00	10.00	252.19	7,458.57	-149.23	-464.55	-146.14	0.00	0.00	0.00
7,600.00	10.00	252.19	7,557.05	-154.54	-481.09	-151.35	0.00	0.00	0.00
7,700.00	10.00	252.19	7,655.52	-159.86	-497.63	-156.55	0.00	0.00	0.00
7,800.00	10.00	252.19	7,754.00	-165.17	-514.17	-161.76	0.00	0.00	0.00
7,900.00	10.00	252.19	7,852.48	-170.48	-530.71	-166.96	0.00	0.00	0.00
8,000.00	10.00	252.19	7,950.96	-175.80	-547.25	-172.16	0.00	0.00	0.00
8,100.00	10.00	252.19	8,049.44	-181.11	-563.79	-177.37	0.00	0.00	0.00
8,200.00	10.00	252.19	8,147.92	-186.42	-580.33	-182.57	0.00	0.00	0.00
8,300.00	10.00	252.19	8,246.40	-191.74	-596.87	-187.77	0.00	0.00	0.00
8,400.00	10.00	252.19	8,344.88	-197.05	-613.41	-192.98	0.00	0.00	0.00
8,500.00	10.00	252.19	8,443.36	-202.36	-629.95	-198.18	0.00	0.00	0.00
8,600.00	10.00	252.19	8,541.84	-207.68	-646.50	-203.38	0.00	0.00	0.00
8,700.00	10.00	252.19	8,640.32	-212.99	-663.04	-208.59	0.00	0.00	0.00
8,800.00	10.00	252.19	8,738.80	-218.30	-679.58	-213.79	0.00	0.00	0.00
8,900.00	10.00	252.19	8,837.28	-223.62	-696.12	-219.00	0.00	0.00	0.00
9,000.00	10.00	252.19	8,935.76	-228.93	-712.66	-224.20	0.00	0.00	0.00
9,100.00	10.00	252.19	9,034.23	-234.24	-729.20	-229.40	0.00	0.00	0.00
9,200.00	10.00	252.19	9,132.71	-239.56	-745.74	-234.61	0.00	0.00	0.00
9,300.00	10.00	252.19	9,231.19	-244.87	-762.28	-239.81	0.00	0.00	0.00



Phoenix Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Frizzle Fry BS Fed Com 501H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3667.60usft (Cactus 171)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3667.60usft (Cactus 171)
Site:	Frizzle Fry	North Reference:	Grid
Well:	Frizzle Fry BS Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-29-24		

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)
9,400.00	10.00	252.19	9,329.67	-250.18	-778.82	-245.01	0.00	0.00	0.00
9,500.00	10.00	252.19	9,428.15	-255.50	-795.36	-250.22	0.00	0.00	0.00
9,584.22	10.00	252.19	9,511.09	-259.97	-809.29	-254.60	0.00	0.00	0.00
Begin 2.00°/100' Drop & Turn									
9,600.00	9.73	253.10	9,526.64	-260.78	-811.87	-255.39	2.00	-1.74	5.77
9,700.00	8.06	260.26	9,625.43	-264.42	-826.87	-258.93	2.00	-1.67	7.16
9,800.00	6.58	270.86	9,724.62	-265.52	-839.51	-259.95	2.00	-1.48	10.60
9,900.00	5.43	286.66	9,824.08	-264.08	-849.77	-258.44	2.00	-1.14	15.80
10,000.00	4.88	308.19	9,923.68	-260.09	-857.65	-254.40	2.00	-0.56	21.53
10,100.00	5.10	331.21	10,023.31	-253.57	-863.13	-247.84	2.00	0.22	23.02
10,200.00	6.02	349.70	10,122.85	-244.52	-866.21	-238.77	2.00	0.92	18.49
10,274.50	7.00	359.62	10,196.87	-236.13	-866.94	-230.38	2.00	1.32	13.32
KOP2, Begin 10.00°/100' Build									
10,300.00	9.55	359.62	10,222.10	-232.46	-866.96	-226.71	10.00	10.00	0.00
10,400.00	19.55	359.62	10,318.77	-207.37	-867.13	-201.62	10.00	10.00	0.00
10,500.00	29.55	359.62	10,409.62	-165.88	-867.40	-160.12	10.00	10.00	0.00
10,600.00	39.55	359.62	10,491.88	-109.24	-867.78	-103.48	10.00	10.00	0.00
10,700.00	49.55	359.62	10,563.05	-39.18	-868.24	-33.42	10.00	10.00	0.00
10,800.00	59.55	359.62	10,620.97	42.18	-868.78	47.94	10.00	10.00	0.00
10,900.00	69.55	359.62	10,663.89	132.36	-869.37	138.12	10.00	10.00	0.00
11,000.00	79.55	359.62	10,690.50	228.62	-870.00	234.39	10.00	10.00	0.00
11,100.00	89.55	359.62	10,699.98	328.04	-870.66	333.81	10.00	10.00	0.00
11,104.50	90.00	359.62	10,700.00	332.54	-870.69	338.31	10.00	10.00	0.00
LP, Hold 90.00° Inc at 359.62° Azm									
11,200.00	90.00	359.62	10,700.00	428.04	-871.32	433.81	0.00	0.00	0.00
11,300.00	90.00	359.62	10,700.00	528.04	-871.98	533.81	0.00	0.00	0.00
11,400.00	90.00	359.62	10,700.00	628.04	-872.64	633.81	0.00	0.00	0.00
11,500.00	90.00	359.62	10,700.00	728.03	-873.30	733.81	0.00	0.00	0.00
11,600.00	90.00	359.62	10,700.00	828.03	-873.96	833.81	0.00	0.00	0.00
11,700.00	90.00	359.62	10,700.00	928.03	-874.62	933.81	0.00	0.00	0.00
11,800.00	90.00	359.62	10,700.00	1,028.03	-875.28	1,033.81	0.00	0.00	0.00
11,900.00	90.00	359.62	10,700.00	1,128.03	-875.93	1,133.81	0.00	0.00	0.00
12,000.00	90.00	359.62	10,700.00	1,228.02	-876.59	1,233.81	0.00	0.00	0.00
12,100.00	90.00	359.62	10,700.00	1,328.02	-877.25	1,333.81	0.00	0.00	0.00
12,200.00	90.00	359.62	10,700.00	1,428.02	-877.91	1,433.81	0.00	0.00	0.00
12,300.00	90.00	359.62	10,700.00	1,528.02	-878.57	1,533.81	0.00	0.00	0.00
12,400.00	90.00	359.62	10,700.00	1,628.01	-879.23	1,633.81	0.00	0.00	0.00
12,500.00	90.00	359.62	10,700.00	1,728.01	-879.89	1,733.81	0.00	0.00	0.00
12,600.00	90.00	359.62	10,700.00	1,828.01	-880.55	1,833.81	0.00	0.00	0.00
12,700.00	90.00	359.62	10,700.00	1,928.01	-881.21	1,933.81	0.00	0.00	0.00
12,800.00	90.00	359.62	10,700.00	2,028.01	-881.87	2,033.81	0.00	0.00	0.00
12,900.00	90.00	359.62	10,700.00	2,128.00	-882.53	2,133.81	0.00	0.00	0.00
13,000.00	90.00	359.62	10,700.00	2,228.00	-883.19	2,233.81	0.00	0.00	0.00
13,100.00	90.00	359.62	10,700.00	2,328.00	-883.85	2,333.81	0.00	0.00	0.00
13,200.00	90.00	359.62	10,700.00	2,428.00	-884.50	2,433.81	0.00	0.00	0.00
13,300.00	90.00	359.62	10,700.00	2,528.00	-885.16	2,533.81	0.00	0.00	0.00
13,400.00	90.00	359.62	10,700.00	2,627.99	-885.82	2,633.81	0.00	0.00	0.00
13,500.00	90.00	359.62	10,700.00	2,727.99	-886.48	2,733.81	0.00	0.00	0.00
13,600.00	90.00	359.62	10,700.00	2,827.99	-887.14	2,833.81	0.00	0.00	0.00
13,700.00	90.00	359.62	10,700.00	2,927.99	-887.80	2,933.81	0.00	0.00	0.00
13,800.00	90.00	359.62	10,700.00	3,027.98	-888.46	3,033.81	0.00	0.00	0.00
13,900.00	90.00	359.62	10,700.00	3,127.98	-889.12	3,133.81	0.00	0.00	0.00
14,000.00	90.00	359.62	10,700.00	3,227.98	-889.78	3,233.81	0.00	0.00	0.00



Phoenix Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Frizzle Fry BS Fed Com 501H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3667.60usft (Cactus 171)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3667.60usft (Cactus 171)
Site:	Frizzle Fry	North Reference:	Grid
Well:	Frizzle Fry BS Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-29-24		

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)
14,100.00	90.00	359.62	10,700.00	3,327.98	-890.44	3,333.81	0.00	0.00	0.00
14,200.00	90.00	359.62	10,700.00	3,427.98	-891.10	3,433.81	0.00	0.00	0.00
14,300.00	90.00	359.62	10,700.00	3,527.97	-891.76	3,533.81	0.00	0.00	0.00
14,400.00	90.00	359.62	10,700.00	3,627.97	-892.42	3,633.81	0.00	0.00	0.00
14,500.00	90.00	359.62	10,700.00	3,727.97	-893.08	3,733.81	0.00	0.00	0.00
14,600.00	90.00	359.62	10,700.00	3,827.97	-893.73	3,833.81	0.00	0.00	0.00
14,700.00	90.00	359.62	10,700.00	3,927.96	-894.39	3,933.81	0.00	0.00	0.00
14,800.00	90.00	359.62	10,700.00	4,027.96	-895.05	4,033.81	0.00	0.00	0.00
14,900.00	90.00	359.62	10,700.00	4,127.96	-895.71	4,133.81	0.00	0.00	0.00
15,000.00	90.00	359.62	10,700.00	4,227.96	-896.37	4,233.81	0.00	0.00	0.00
15,100.00	90.00	359.62	10,700.00	4,327.96	-897.03	4,333.81	0.00	0.00	0.00
15,200.00	90.00	359.62	10,700.00	4,427.95	-897.69	4,433.81	0.00	0.00	0.00
15,300.00	90.00	359.62	10,700.00	4,527.95	-898.35	4,533.81	0.00	0.00	0.00
15,400.00	90.00	359.62	10,700.00	4,627.95	-899.01	4,633.81	0.00	0.00	0.00
15,500.00	90.00	359.62	10,700.00	4,727.95	-899.67	4,733.81	0.00	0.00	0.00
15,600.00	90.00	359.62	10,700.00	4,827.95	-900.33	4,833.81	0.00	0.00	0.00
15,700.00	90.00	359.62	10,700.00	4,927.94	-900.99	4,933.81	0.00	0.00	0.00
15,800.00	90.00	359.62	10,700.00	5,027.94	-901.65	5,033.81	0.00	0.00	0.00
15,900.00	90.00	359.62	10,700.00	5,127.94	-902.31	5,133.81	0.00	0.00	0.00
16,000.00	90.00	359.62	10,700.00	5,227.94	-902.96	5,233.81	0.00	0.00	0.00
16,100.00	90.00	359.62	10,700.00	5,327.93	-903.62	5,333.81	0.00	0.00	0.00
16,200.00	90.00	359.62	10,700.00	5,427.93	-904.28	5,433.81	0.00	0.00	0.00
16,300.00	90.00	359.62	10,700.00	5,527.93	-904.94	5,533.81	0.00	0.00	0.00
16,400.00	90.00	359.62	10,700.00	5,627.93	-905.60	5,633.81	0.00	0.00	0.00
16,500.00	90.00	359.62	10,700.00	5,727.93	-906.26	5,733.81	0.00	0.00	0.00
16,600.00	90.00	359.62	10,700.00	5,827.92	-906.92	5,833.81	0.00	0.00	0.00
16,700.00	90.00	359.62	10,700.00	5,927.92	-907.58	5,933.81	0.00	0.00	0.00
16,800.00	90.00	359.62	10,700.00	6,027.92	-908.24	6,033.81	0.00	0.00	0.00
16,900.00	90.00	359.62	10,700.00	6,127.92	-908.90	6,133.81	0.00	0.00	0.00
17,000.00	90.00	359.62	10,700.00	6,227.92	-909.56	6,233.81	0.00	0.00	0.00
17,100.00	90.00	359.62	10,700.00	6,327.91	-910.22	6,333.81	0.00	0.00	0.00
17,200.00	90.00	359.62	10,700.00	6,427.91	-910.88	6,433.81	0.00	0.00	0.00
17,300.00	90.00	359.62	10,700.00	6,527.91	-911.53	6,533.81	0.00	0.00	0.00
17,400.00	90.00	359.62	10,700.00	6,627.91	-912.19	6,633.81	0.00	0.00	0.00
17,500.00	90.00	359.62	10,700.00	6,727.90	-912.85	6,733.81	0.00	0.00	0.00
17,600.00	90.00	359.62	10,700.00	6,827.90	-913.51	6,833.81	0.00	0.00	0.00
17,700.00	90.00	359.62	10,700.00	6,927.90	-914.17	6,933.81	0.00	0.00	0.00
17,800.00	90.00	359.62	10,700.00	7,027.90	-914.83	7,033.81	0.00	0.00	0.00
17,900.00	90.00	359.62	10,700.00	7,127.90	-915.49	7,133.81	0.00	0.00	0.00
18,000.00	90.00	359.62	10,700.00	7,227.89	-916.15	7,233.81	0.00	0.00	0.00
18,100.00	90.00	359.62	10,700.00	7,327.89	-916.81	7,333.81	0.00	0.00	0.00
18,200.00	90.00	359.62	10,700.00	7,427.89	-917.47	7,433.81	0.00	0.00	0.00
18,300.00	90.00	359.62	10,700.00	7,527.89	-918.13	7,533.81	0.00	0.00	0.00
18,400.00	90.00	359.62	10,700.00	7,627.88	-918.79	7,633.81	0.00	0.00	0.00
18,420.50	90.00	359.62	10,700.00	7,648.38	-918.92	7,654.31	0.00	0.00	0.00
Begin 2.00°/100' Turn									
18,500.00	90.00	1.21	10,700.00	7,727.88	-918.34	7,733.80	2.00	0.00	2.00
18,600.00	90.00	3.21	10,700.00	7,827.80	-914.48	7,833.69	2.00	0.00	2.00
18,670.21	90.00	4.62	10,700.00	7,897.84	-909.69	7,903.70	2.00	0.00	2.00
Hold 4.62° Azm									
18,700.00	90.00	4.62	10,700.00	7,927.54	-907.29	7,933.38	0.00	0.00	0.00
18,800.00	90.00	4.62	10,700.00	8,027.21	-899.24	8,033.00	0.00	0.00	0.00
18,900.00	90.00	4.62	10,700.00	8,126.89	-891.19	8,132.62	0.00	0.00	0.00
19,000.00	90.00	4.62	10,700.00	8,226.56	-883.15	8,232.24	0.00	0.00	0.00



Phoenix Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Frizzle Fry BS Fed Com 501H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3667.60usft (Cactus 171)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3667.60usft (Cactus 171)
Site:	Frizzle Fry	North Reference:	Grid
Well:	Frizzle Fry BS Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-29-24		

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)	
19,100.00	90.00	4.62	10,700.00	8,326.24	-875.10	8,331.86	0.00	0.00	0.00	
19,200.00	90.00	4.62	10,700.00	8,425.92	-867.05	8,431.48	0.00	0.00	0.00	
19,300.00	90.00	4.62	10,700.00	8,525.59	-859.00	8,531.10	0.00	0.00	0.00	
19,400.00	90.00	4.62	10,700.00	8,625.27	-850.95	8,630.72	0.00	0.00	0.00	
19,500.00	90.00	4.62	10,700.00	8,724.94	-842.90	8,730.34	0.00	0.00	0.00	
19,600.00	90.00	4.62	10,700.00	8,824.62	-834.86	8,829.96	0.00	0.00	0.00	
19,700.00	90.00	4.62	10,700.00	8,924.29	-826.81	8,929.58	0.00	0.00	0.00	
19,800.00	90.00	4.62	10,700.00	9,023.97	-818.76	9,029.20	0.00	0.00	0.00	
19,900.00	90.00	4.62	10,700.00	9,123.64	-810.71	9,128.82	0.00	0.00	0.00	
20,000.00	90.00	4.62	10,700.00	9,223.32	-802.66	9,228.44	0.00	0.00	0.00	
20,100.00	90.00	4.62	10,700.00	9,323.00	-794.61	9,328.06	0.00	0.00	0.00	
20,200.00	90.00	4.62	10,700.00	9,422.67	-786.56	9,427.68	0.00	0.00	0.00	
20,300.00	90.00	4.62	10,700.00	9,522.35	-778.52	9,527.30	0.00	0.00	0.00	
20,400.00	90.00	4.62	10,700.00	9,622.02	-770.47	9,626.92	0.00	0.00	0.00	
20,478.05	90.00	4.62	10,700.00	9,699.82	-764.18	9,704.68	0.00	0.00	0.00	
Begin 2.00°/100' Turn										
20,500.00	90.00	4.18	10,700.00	9,721.70	-762.50	9,726.55	2.00	0.00	-2.00	
20,600.00	90.00	2.18	10,700.00	9,821.55	-756.96	9,826.35	2.00	0.00	-2.00	
20,700.00	90.00	0.18	10,700.00	9,921.52	-754.90	9,926.31	2.00	0.00	-2.00	
20,727.88	90.00	359.62	10,700.00	9,949.39	-754.95	9,954.18	2.00	0.00	-2.00	
Hold 359.62° Azm										
20,800.00	90.00	359.62	10,700.00	10,021.52	-755.43	10,026.31	0.00	0.00	0.00	
20,900.00	90.00	359.62	10,700.00	10,121.52	-756.10	10,126.31	0.00	0.00	0.00	
20,927.88	90.00	359.62	10,700.00	10,149.39	-756.28	10,154.18	0.00	0.00	0.00	
TD at 20927.88										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP/BHL(Plat) - Frizzl	0.00	359.62	10,700.00	10,147.33	-935.40	509,343.18	704,869.40	32° 23' 54.782884 N	3° 40' 10.459976 W	
- plan misses target center by 179.13usft at 20927.00usft MD (10700.00 TVD, 10148.52 N, -756.27 E)										
- Rectangle (sides W100.00 H10,363.08 D20.00)										
PI2/PPP2 - Frizzle Fry	0.00	0.00	10,700.00	4,966.18	-901.07	504,162.03	704,903.73	32° 23' 3.510958 N	3° 40' 10.434620 W	
- plan misses target center by 0.17usft at 15738.24usft MD (10700.00 TVD, 4966.18 N, -901.24 E)										
- Point										
FTP - Frizzle Fry BS F	0.00	0.00	10,700.00	-215.52	-867.08	498,980.33	704,937.72	32° 22' 12.233494 N	3° 40' 10.413129 W	
- plan misses target center by 220.06usft at 10673.85usft MD (10545.63 TVD, -58.68 N, -868.11 E)										
- Point										
PI3 - Frizzle Fry BS F	0.00	0.00	10,700.00	7,606.95	-918.30	506,802.80	704,886.50	32° 23' 29.643641 N	3° 40' 10.444440 W	
- plan misses target center by 0.35usft at 18379.06usft MD (10700.00 TVD, 7606.95 N, -918.65 E)										
- Point										
PI1 - Frizzle Fry BS F	0.00	0.00	10,700.00	2,325.31	-883.91	501,521.16	704,920.89	32° 22' 37.377259 N	3° 40' 10.425587 W	
- plan misses target center by 0.08usft at 13097.31usft MD (10700.00 TVD, 2325.31 N, -883.83 E)										
- Point										
LTP/BHL - Frizzle Fry	0.00	0.00	10,700.00	10,149.39	-756.28	509,345.24	705,048.52	32° 23' 54.792261 N	03° 40' 8.370741 W	
- plan hits target center										
- Rectangle (sides W0.00 H0.00 D20.00)										



Phoenix
Planning Report



Database:	USAEDMDB	Local Co-ordinate Reference:	Well Frizzle Fry BS Fed Com 501H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3667.60usft (Cactus 171)
Project:	Lea County, NM (NAD27 NME)	MD Reference:	RKB @ 3667.60usft (Cactus 171)
Site:	Frizzle Fry	North Reference:	Grid
Well:	Frizzle Fry BS Fed Com 501H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 05-29-24		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
4,442.00	4,442.00	0.00	0.00	KOP, Begin 2.00°/100' Build
4,942.24	4,939.70	-13.32	-41.48	Hold 10.00° Inc at 252.19° Azm
9,584.22	9,511.09	-259.97	-809.29	Begin 2.00°/100' Drop & Turn
10,274.50	10,196.87	-236.13	-866.94	KOP2, Begin 10.00°/100' Build
11,104.50	10,700.00	332.54	-870.69	LP, Hold 90.00° Inc at 359.62° Azm
18,420.50	10,700.00	7,648.38	-918.92	Begin 2.00°/100' Turn
18,670.21	10,700.00	7,897.84	-909.69	Hold 4.62° Azm
20,478.05	10,700.00	9,699.82	-764.18	Begin 2.00°/100' Turn
20,727.88	10,700.00	9,949.39	-754.95	Hold 359.62° Azm
20,927.88	10,700.00	10,149.39	-756.28	TD at 20927.88

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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 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 354633

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 354633
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	ALL PREVIOUS COA'S APPLY.	6/18/2024