Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

		p
5.	Lease Serial No	

BUR	EAU OF LAND MANAGEN	MENT	5. Lease Serial No. NMNM25953
Do not use this t	IOTICES AND REPORTS form for proposals to dril Use Form 3160-3 (APD) f	ll or to re-enter an	
	TRIPLICATE - Other instructions	on page 2	7. If Unit of CA/Agreement, Name and/or No.
 Type of Well	Vell Other		8. Well Name and No. RIPLEY 35 WA FED COM/9H
2. Name of Operator MARATHON O			9. API Well No. 3001547621
3a. Address 990 TOWN & COUNTR		one No. (include area code	
990 TOWN & COUNTR		000-0000	Purple Sage/Wolfcamp
4. Location of Well (Footage, Sec., T., F	R.,M., or Survey Description)		11. Country or Parish, State
SEC 35/T24S/R28E/NMP			EDDY/NM
12. CHE	CK THE APPROPRIATE BOX(ES)) TO INDICATE NATURE	E OF NOTICE, REPORT OR OTHER DATA
TYPE OF SUBMISSION		TY	PE OF ACTION
✓ Notice of Intent	Acidize Alter Casing	Deepen Hydraulic Fracturing	Production (Start/Resume) Water Shut-Off Reclamation Well Integrity
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon	Recomplete ✓ Other Temporarily Abandon
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposal
is ready for final inspection.) Marathon Oil Permian LLC. re attached file for a detailed sun Formation, Dedicated Acreage submitted for SHL move and hincluded in the attached document. Well Name Changed - from R. Well SHL Changed - from 320	spectfully requests to make chan nmary of the requested changes e, SHL (move 30' east swapping Name Change, see Sundry ID# 2 ment is the revised C-102 Well Pl PLEY 35 WA FED COM 9H to R FSL 1266 FEL to 320 FSL 1296	iges to the Approved AF including Well Name, La SHLs with the Ripley 35 659599 submitted 3/2/2/ lat, Revised Directional I	
	<u> </u>		me/ current SHL and proposed SHL.
4. I hereby certify that the foregoing is MELISSA SZUDERA / Ph: (713) 29			TORY COMPLIANCE REPRESENTATIVE
Signature		Date	06/21/2022
	THE SPACE FOR	FEDERAL OR ST	TATE OFICE USE
Approved by			
CHRISTOPHER WALLS / Ph: (57	5) 234-2234 / Approved	Petro Title	oleum Engineer 06/27/2022 Date

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.

Office CARLSBAD

(Instructions on page 2)

which would entitle the applicant to conduct operations thereon.

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

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, 3162.3-4.

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SESE / 320 FSL / 1266 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1673828 / LONG: -104.0534652 (TVD: 0 feet, MD: 0 feet) PPP: NENE / 1335 FNL / 330 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.177502 / LONG: -104.0505081 (TVD: 9777 feet, MD: 13515 feet) PPP: SESE / 330 FSL / 330 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1674016 / LONG: -104.0504398 (TVD: 9665 feet, MD: 9813 feet) BHL: NENE / 330 FNL / 330 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1802646 / LONG: -104.0505268 (TVD: 9777 feet, MD: 14520 feet)





U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Sundry Print Reports

Well Name: RIPLEY 35-26 SB FED

COM

Well Location: T24S / R28E / SEC 35 /

SESE / 32.1673828 / -104.0534652

County or Parish/State: EDDY /

NM

Well Number: 202H Type of Well: CONVENTIONAL GAS

WELL

Allottee or Tribe Name:

Lease Number: NMNM025953,

NMNM25953

Unit or CA Name:

Unit or CA Number:

3

US Well Number: 3001547621

Well Status: Approved Application for

Permit to Drill

Operator: MARATHON OIL

PERMIAN LLC

Notice of Intent

Sundry ID: 2659595

Type of Submission: Notice of Intent

Date Sundry Submitted: 03/02/2022

Type of Action: APD Change

Time Sundry Submitted: 10:27

Date proposed operation will begin: 06/01/2022

Procedure Description: Marathon Oil Permian LLC. respectfully requests to make changes to the Approved APD for the above listed well. See the first page of the attached file for a detailed summary of the requested changes including Well Name, Lateral Length (1 mile to 2 miles), MD, TVD, Pool, Formation, Dedicated Acreage, SHL (move 30' east swapping SHLs with the Ripley 35 WXY Fed Com 3H AAPD - NOTE: separate sundry submitted for SHL move and Name Change, see Sundry ID# 2659599 submitted 3/2/2022), FTP, LTP, and Casing & Cement Program. Also included in the attached document is the revised C-102 Well Plat, Revised Directional Drilling Well Plan and Revised Drilling and Operations Plan. Well Name Changed - from RIPLEY 35 WA FED COM 9H to RIPLEY 35-26 SB FED COM 202H Well SHL Changed - from 320 FSL 1266 FEL to 320 FSL 1296 FEL of the same STR - 26-24S-28E Well BHL Changed - from 330 FNL 330 FEL of Section 35, Township 24S, Range 28E to 100 FNL 1320 FEL of Section 26, Township 24S, Range 28E

NOI Attachments

Procedure Description

Sub_SN_Att_RIPLEY_35_26_SB_FED_COM_202H_02.17.22_20220302100026.pdf

Page 1 of 2

eived by OCD: 6/29/2022 10:33:47 AM Well Name: RIPLEY 35-26 SB FED

COM

Well Location: T24S / R28E / SEC 35 / SESE / 32.1673828 / -104.0534652

County or Parish/State: Page 5 of

Well Number: 202H

Type of Well: CONVENTIONAL GAS

Well Status: Approved Application for

Allottee or Tribe Name:

Lease Number: NMNM025953,

NMNM25953

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547621

Operator: MARATHON OIL

Permit to Drill

PERMIAN LLC

Zip:

Conditions of Approval

Additional

Ripley_35_26_SB_Fed_Com_202H_COA_20220510135536.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: MELISSA SZUDERA Signed on: JUN 21, 2022 06:42 AM

Name: MARATHON OIL PERMIAN LLC

Title: REGULATORY COMPLIANCE REPRESENTATIVE

State:

Street Address: 990 TOWN & COUNTRY BLVD

City: Houston State: TX

Phone: (713) 296-3179

Email address: mszudera@marathonoil.com

Field

Representative Name:

Street Address:

City:

Phone:

Email address:

BLM Point of Contact

Signature: Chris Walls

BLM POC Name: CHRISTOPHER WALLS BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved Disposition Date: 06/27/2022

Page 2 of 2

Marathon Oil Permian, LLC.

Summary of Changes for **NOI Change to AAPD Sundry** Submittal

Well Name: Ripley 35-26 SB Fed Com 202H

APD ID Num: **10400035902**API Num: **3001547621**

		Approved APD	Submitted Sundry
	Well Name & Number	Ripley 35 WA Fed Com 9H	Ripley 35-26 SB Fed Com 202H
	Lateral Length	SL	XXL
	Target Formation	WA	SB
	TVD	9777	8400
	MD	14520	18714.3
	Pool Name	Purple Sage; Wolfcamp Gas	Bone Spring; Willow Lake
	Pool Code	98220	96415
	Dedicated Acreage	320	640
	Elevation	2955	2955
	FOOTAGE	320 FSL 1266 FEL	320 FSL 1296 FEL
SHL	UL	Р	Р
SHL	Q/Q	SESE	SESE
	S-T-R	35-24S-28E	35-24S-28E
	FOOTAGE	330 FSL 330 FEL	100 FSL 1320 FEL
FTP	UL	Р	Р
FIF	Q/Q	SESE	SESE
	S-T-R	35-24S-28E	35-24S-28E
	FOOTAGE	330 FNL 330 FEL	100 FNL 1320 FEL
LTP	UL	Α	Α
LIP	Q/Q	NENE	NENE
	S-T-R	35-24S-28E	26-24S-28E
	Casing Stages	4	3
.	Top MD	0	0
Surf	Bottom MD	741	731
Csg	Size, Weight, Grade Connection	13.375" 54.5# J55 STC	13.375" 54.5# J55 BTC
1.14	Top MD	0	0
Int 1	Bottom MD	2610	2703
Csg	Size, Weight, Grade Connection	9.625" 40# J55 LTC	9.625" 40# P110HC BTC
	Top MD	0	-
Int 2	Bottom MD	10180	-
Csg	Size, Weight, Grade Connection	7" 29# P110 BTC	-
	Top MD	9880	0
Prod	Bottom MD	14520	18714
Csg	Size, Weight, Grade Connection	4.5" 13.5# P110 BTC	5.5" 23# P110HC TLW
	-		

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

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

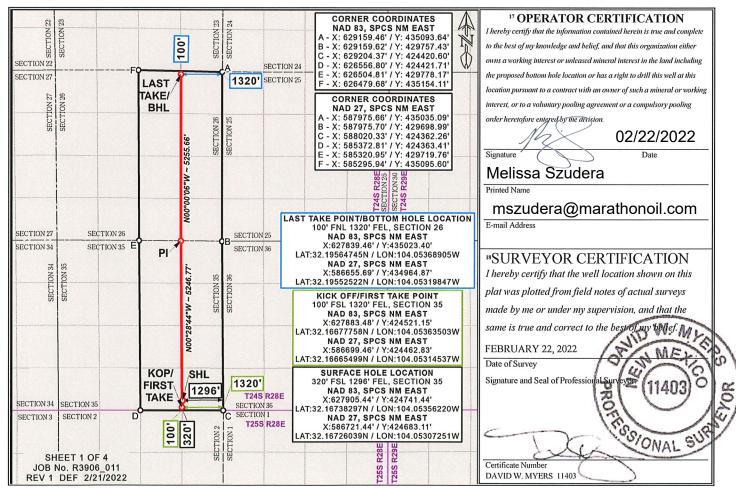


WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Numbe 015-47			Pool Code 96415	64450	BONE	BONE SPRING; WILLOW LAKE				
4 Property	Code				⁵ Property I	Name			⁶ Well Number		
	RIPLEY 35-26 SB FED COM								202H		
⁷ OGRID No. ⁸ Operator Name							⁹ Elevation				
37209			MARA	THON OIL	DIL PERMIAN LLC 2955'						
					¹⁰ Surface I	Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East	/West line	County	
P	35	24S	28E		320	SOUTH	1296	EAS	ST	EDDY	
			ıı Ro	ttom Hol	a Location If	Different From	Surface				

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 26 24S 28E 100 NORTH 1320 **EAST EDDY** 12 Dedicated Acres Joint or Infill Consolidation Code ¹⁵ Order No. 640.0

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



Distances/areas relative to NAD 83 Combined Scale Factor: 0.9997778 Convergence Angle: 00°08'28.560012"

Horizontal Spacing Unit



MARATHON OIL PERMIAN, LLC. DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER:

RIPLEY 35-26 SB FED COM 202H

LOCATION: SECTION 35 TOWNSHIP 24S RANGE 28E

LEA COUNTY, NEW MEXICO

Section 1:

GEOLOGICAL FORMATIONS

Name of Surface Formation: Permian Elevation: 2955 feet

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	661	661	NA	Anhydrite	Brine	No
Salado	750	750	2205	Salt/Anhydrite	Brine	No
Castile	1009	1009	1946	Salt/Anhydrite	Brine	No
Base of Salt (BX)	2688	2688	267	Salt/Anhydrite	Brine	No
Lamar	2688	2688	267	Sandstone/Shale	None	No
Bell Canyon	2721	2721	234	Sandstone	Oil	No
Cherry Canyon	3600	3600	-645	Sandstone	Oil	No
Brushy Canyon	4880	4880	-1925	Sandstone	Oil	No
Bone Spring Lime	6434	6434	-3479	Limestone	None	No
Upper Avalon Shale	6480	6480	-3525	Shale	Oil	Yes
1st Bone Spring Sand	7357	7357	-4402	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	7633	7633	-4678	Limestone/Shale	None	No
2nd Bone Spring Sand	7980	7980	-5025	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	7633	7633	-4678	Limestone	Oil	No
3rd Bone Spring Sand	9259	9259	-6304	Sandstone	Oil	Yes
Wolfcamp	9626	9626	-6671	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	9773	9773	-6818	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	10065	10065	-7110	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	10334	10334	-7379	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp D	10843	10843	-7888	Sandstone/Shale/Carbonates	Natural Gas / Oil	No

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 50% WP for the Annular and 10,000 psi for the BOP Stacking. 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.

Marathon Oil Permian LLC. Drilling & Operations Plan - Page 2 of 3

Section 3:							CASIN	ig progi	RAM								
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	731	0	731	2955	2224	54.5	J55	BTC	1.00	1.15	BUOY	1.30	BUOY	1.30
Intermediate	12.25	9.625	0	2703	0	2703	2955	252	40	P110HC	BTC	1.00	1.15	BUOY	1.30	BUOY	1.30
Production	8.75	5.5	0	18714	0	8400	2955	-5445	23	P110HC	TLW	1.00	1.15	BUOY	1.30	BUOY	1.30
	All casi	ing strings	will be test	ed in accor	dance with	Onshore (Oil and Gas	Order #2 I	II.B.1.h				Safety	Factors wi	ll Meet or	Exceed	

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

Yes or 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	431	199	2.12	12.5	423	25	Class C	Extender, Accelerator, LCM
Surface	Tail	431	731	197	1.32	14.8	260	25	Class C	Accelerator
Intermediate	Lead	0	2203	416	2.18	12.4	908	25	Class C	Extender, Accelerator, LCM
Intermediate	Tail	2203	2703	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	2403	18714	3106	1.68	13	5218	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.

N/A

Pilot Hole? No Plugging Procedure for Pilot Hole:

Pilot Hole Depth: N/A KOP Depth: N/A

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

Marathon Oil Permian LLC.

Drilling & Operations Plan - Page 3 of 3

Section 5: CIRCULATING MEDIUM

Mud System Type:ClosedWill 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	731	Water Based Mud	8.4	8.8
731	2703	Brine or Oil Based Mud	9.2	10.2
2703	18714	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:	5460 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.

Received by OCD: 6/29/2022 10:33:47 AM DESIGN TARGET DETAILS Ripley 35-26 SB Fed Com 202H Eddy County, New Mexico (NAD 27) Q2100** & MC-2100** TVD Longitude Shape +N/-S +E/-W Northing **Easting** Latitude Name 586699.42 32° 9' 59.463 M04° 3' 11.325 W Point 7627.0 -270.0 Ripley 35-26 SB Fed Com 202H-VP 7627.0 - plan hits target center Ripley 35-26 SB Fed Com 202H-FTP 8400.0 -22.2 424412.83 Design #1 -220.0 -22.2 424462.83 586699.46 32° 9' 59.958 M04° 3' 11.323 W Point - plan misses target center by 202.9usft at 8306.4usft MD (8246.9 TVD, -86.9 N, -23.0 E) Ripley 35-26 SB Fed Com 202H-LTP 8400.0 -65.9 434964.87 586655.6932° 11' 43.891 M04° 3' 11.514 W Point - plan hits target center PROJECT DETAILS: Eddy County, New Mexico (NAD 27) Geodetic System: US State Plane 1927 (Exact solution) Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 New Mexico East 3001 Mean Sea Level System Datum: Company Name: Marathon Oil Permian LLC Ripley 35-26 SB Fed Com 202H Eddy County, New Mexico (NAD 27) Rig: **WELL DETAILS:** Ripley 35-26 SB Fed Com 202H 2955.0 Created By: Michael Hilliard **Easting** Latittude Longitude Northing Date: 2/21/2022 586721.62 32° 10' 2.135 N 104° 3' 11.059 W 424682.84 1800 1200 **DESIGN ANNOTATIONS VSecDeparture** Annotation Inc 0.00 0.00 3000.0 3000.0 0.0 Start Build 2.00 3174.0 -0.4 3174.1 5.3 Start 4287.0 hold at 3174.1 MD 10600--21.8 -264.6 7461.0 184.70 7453.0 -264.7 265.6 Start Drop -2.00 7627.0 -270.0 -22.2 -269.9 270.9 Start 200.0 hold at 7635.1 MD 7635.1 0.00 Lease Line 0.00 7827.0 7835.1 -270.0 -269.9 270.9 Start DLS 10.00 TFO 359.76 10400 -10400 843.9 Start 9979.2 hold at 8735.1 MD 302.9 8735.1 359.76 8400.0 359.76 8400.0 10282.0 -65.9 10282.2 10823.0 TD at 18714.3 Ripley 35-26 \$B Fed Com 202H-LTP 100' HL 10200-10200 TD at 18714.3 10000 10000-330' HL Marathon Oil® Directional Drilling Azimuths to Grid North True North: -0.15° Magnetic North: 6.58° Magnetic Field Strength: 47594.7nT Dip Angle: 59.80° Date: 2/11/2022 Model: HDGM2022 Ripley 35-26 SB Fed Com 202H/Design #1 7800 Ripley 35-26 WXY Fed Com 5H/Design #1 Ripley 35-26 SB Fed Com 203H/Design #1 7200 7000 6800 -6800 6600-Ripley 35-26 SB Fed Com 201H/Design #1 -6400 6400-6200 -6200 Ripley 35-26 WXY Fed Com 3H/Design #1 6000 5800--5800 5600--5600 5200--5200 **Section Line** -5000 5000-4600-4000 3400-2800-Start Build 2.00 Start 4287.0 hold at 3174.1 MD 2000 1800-1400-1200-800-600-Start 9979.2 hold at 8735.1 MD Start Build 2.00 Start 4287.0 hold at 3174.1 MD 330' HL 100' HL Lease Line Start DLS 10.00 TFO 359.76 -400-Start Drop -2.00 Ripley 35-26 SB Fed Com 202H-FTP Ripley 35-26 SB Fed Com 202H-VP -800 8200-7000 TD at 18714.3 8400 -8400 -7200 Ripley 35-26 SB Fed Com 202H-LTP 5800 7200 6200 7400 10400 10600 Vertical Section at 359.63° (200 usft/in) Start Drop -2.00 Start 200.0 hold at 7635.1 MD Target Line: 8400' TVD @ 0'VS 90° 10' U/D Start DLS 10.00 TFO 359.76 Start 9979.2 hold at 8735.1 MD 8200

3400

3600

5200

5000

2200

Vertical Section at 359.63° (200 usft/in)

Page 11 of 25

Ripley 35-26 SB Fed Com 202H-FTP

1000

-200



Marathon Oil Permian LLC

Eddy County, New Mexico (NAD 27) Sec 35, T24S, R28E Ripley 35-26 SB Fed Com 202H

Wellbore #1

Plan: Design #1

KLX Well Planning Report

16 February, 2022





KLXWell Planning Report



Database: EDM 5000.1 Single User Db Company: Marathon Oil Permian LLC

Project: Eddy County, New Mexico (NAD 27)

Site: Sec 35, T24S, R28E

Well: Ripley 35-26 SB Fed Com 202H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ripley 35-26 SB Fed Com 202H

KB=26.5 @ 2981.5usft KB=26.5 @ 2981.5usft

Grid

Minimum Curvature

Project Eddy County, New Mexico (NAD 27)

Map System:US State Plane 1927 (Exact solution)Geo Datum:NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Sec 35, T24S, R28E

Northing: 424,682.84 usft Site Position: Latitude: 32° 10' 2.135 N From: Мар Easting: 586,691.62 usft Longitude: 104° 3' 11.408 W **Position Uncertainty:** Slot Radius: 13-3/16 " **Grid Convergence:** 0.15 0.0 usft

Well Ripley 35-26 SB Fed Com 202H

 Well Position
 +N/-S
 0.0 usft
 Northing:
 424,682.84 usft
 Latitude:
 32° 10' 2.135 N

 +E/-W
 30.0 usft
 Easting:
 586,721.62 usft
 Longitude:
 104° 3' 11.059 W

Position Uncertainty 0.0 usft Wellhead Elevation: Ground Level: 2,955.0 usft

Wellbore Wellbore #1 Magnetics **Model Name** Sample Date Declination Dip Angle Field Strength (°) (°) (nT) 2/11/2022 47.594.70000000 HDGM2022 6.73 59.80

Design Design #1 **Audit Notes:** Version: Phase: **PROTOTYPE** Tie On Depth: 0.0 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 359.63 0.0 0.0 0.0

lan 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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,174.1	3.48	184.70	3,174.0	-5.3	-0.4	2.00	2.00	0.00	184.70	
7,461.0	3.48	184.70	7,453.0	-264.7	-21.8	0.00	0.00	0.00	0.00	
7,635.1	0.00	0.00	7,627.0	-270.0	-22.2	2.00	-2.00	0.00	180.00	Ripley 35-26 SB Fed
7,835.1	0.00	0.00	7,827.0	-270.0	-22.2	0.00	0.00	0.00	0.00	
8,735.1	90.00	359.76	8,400.0	302.9	-24.6	10.00	10.00	-0.03	359.76	
18,714.3	90.00	359.76	8,400.0	10,282.0	-65.9	0.00	0.00	0.00	0.00	Ripley 35-26 SB Fed



KLXWell Planning Report



Database: EDM 5000.1 Single User Db
Company: Marathon Oil Permian LLC
Project: Eddy County, New Mexico (NAD 27)

Site: Sec 35, T24S, R28E

Well: Ripley 35-26 SB Fed Com 202H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ripley 35-26 SB Fed Com 202H

KB=26.5 @ 2981.5usft KB=26.5 @ 2981.5usft

Grid

sign:	Design #1								
nned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
0.008	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
4 000 0	0.00	0.00	4 000 0				0.00		2.22
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0		0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2	2.00								
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3.100.0	2.00	184.70	3,100.0	-1.7	-0.1	-1.7	2.00	2.00	0.00
-,			-,		U. 1			2.00	0.00
	hold at 3174.1 N								
3,174.1	3.48	184.70	3,174.0	-5.3	-0.4	-5.3	2.00	2.00	0.00
3,200.0	3.48	184.70	3,199.8	-6.8	-0.6	-6.8	0.00	0.00	0.00
3,300.0	3.48	184.70	3,299.7	-12.9	-1.1	-12.9	0.00	0.00	0.00
3,400.0	3.48	184.70	3,399.5	-18.9	-1.6	-18.9	0.00	0.00	0.00
3,500.0	3.48	184.70	3,499.3	-25.0	-2.1	-25.0	0.00	0.00	0.00
3,600.0	3.48	184.70	3,599.1	-31.0	-2.6	-31.0	0.00	0.00	0.00
3,700.0	3.48	184.70	3,698.9	-37.1	-3.1	-37.1	0.00	0.00	0.00
3,800.0	3.48	184.70	3,798.7	-43.2	-3.5	-43.1	0.00	0.00	0.00
3,000.0	3.40	104.70	3,180.1	-4 3.∠	-3.5	-4 3.1	0.00	0.00	0.00
3,900.0	3.48	184.70	3,898.6	-49.2	-4.0	-49.2	0.00	0.00	0.00
4,000.0	3.48	184.70	3,998.4	-55.3	-4.5	-55.2	0.00	0.00	0.00
4,100.0	3.48	184.70	4,098.2	-61.3	-5.0	-61.3	0.00	0.00	0.00
4,200.0	3.48	184.70	4,198.0	-67.4	-5.5	-67.3	0.00	0.00	0.00
4,300.0	3.48	184.70	4,297.8	-73.4	-6.0	-73.4	0.00	0.00	0.00
4,400.0	3.48	184.70	4,397.6	-79.5	-6.5	-79.4	0.00	0.00	0.00
4,500.0	3.48	184.70	4,497.4	-85.5	-7.0	-85.5	0.00	0.00	0.00
4,600.0	3.48	184.70	4,597.3	-91.6	-7.5	-91.5	0.00	0.00	0.00
4,700.0	3.48	184.70	4,697.1	-97.6	-8.0	-97.6	0.00	0.00	0.00
4,800.0	3.48	184.70	4,796.9	-103.7	-8.5	-103.6	0.00	0.00	0.00
4,900.0	3.48	184.70	4,896.7	-109.7	-9.0	-109.7	0.00	0.00	0.00
5,000.0	3.48	184.70	4,996.5	-115.8	-9.5	-115.7	0.00	0.00	0.00



Design:

KLX Well Planning Report



EDM 5000.1 Single User Db Database: Company: Marathon Oil Permian LLC

Eddy County, New Mexico (NAD 27) Project:

Sec 35, T24S, R28E Site:

Well: Ripley 35-26 SB Fed Com 202H Wellbore #1 Wellbore: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ripley 35-26 SB Fed Com 202H

KB=26.5 @ 2981.5usft KB=26.5 @ 2981.5usft

Grid

ned 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)
5,100.0	3.48	184.70	5,096.3	-121.8	-10.0	-121.8	0.00	0.00	0.00
5,200.0	3.48	184.70	5,196.2	-127.9	-10.5	-127.8	0.00	0.00	0.00
5,300.0	3.48	184.70	5,296.0	-133.9	-11.0	-133.9	0.00	0.00	0.00
5,300.0	3.40	104.70	5,290.0	-133.9	-11.0	-133.9	0.00	0.00	0.00
5,400.0	3.48	184.70	5,395.8	-140.0	-11.5	-139.9	0.00	0.00	0.00
5,500.0	3.48	184.70	5,495.6	-146.0	-12.0	-146.0	0.00	0.00	0.00
5,600.0	3.48	184.70	5,595.4	-152.1	-12.5	-152.0	0.00	0.00	0.00
5,700.0	3.48	184.70	5,695.2	-158.1	-13.0	-158.1	0.00	0.00	0.00
5,800.0	3.48	184.70	5,795.0	-164.2	-13.5	-164.1	0.00	0.00	0.00
5,900.0	3.48	184.70	5,894.9	-170.3	-14.0	-170.2	0.00	0.00	0.00
6,000.0	3.48	184.70	5,994.7	-176.3	-14.5	-176.2	0.00	0.00	0.00
6,100.0	3.48	184.70	6,094.5	-182.4	-15.0	-182.3	0.00	0.00	0.00
6,200.0	3.48	184.70	6,194.3	-188.4	-15.5	-188.3	0.00	0.00	0.00
6,300.0	3.48	184.70	6,294.1	-194.5	-16.0	-194.4	0.00	0.00	0.00
	0.40	104.70			40.5	200.4	0.00	0.00	0.00
6,400.0	3.48	184.70	6,393.9	-200.5	-16.5	-200.4	0.00	0.00	0.00
6,500.0	3.48	184.70	6,493.8	-206.6	-17.0	-206.5	0.00	0.00	0.00
6,600.0	3.48	184.70	6,593.6	-212.6	-17.5	-212.5	0.00	0.00	0.00
6,700.0	3.48	184.70	6,693.4	-218.7	-18.0	-218.6	0.00	0.00	0.00
6,800.0	3.48	184.70	6,793.2	-224.7	-18.5	-224.6	0.00	0.00	0.00
6,900.0	3.48	184.70	6,893.0	-230.8	-19.0	-230.7	0.00	0.00	0.00
7,000.0	3.48	184.70	6,992.8	-236.8	-19.5	-236.7	0.00	0.00	0.00
7,100.0	3.48	184.70	7,092.6	-242.9	-20.0	-242.8	0.00	0.00	0.00
7,100.0	3.48	184.70	7,192.5	-248.9	-20.5	-248.8	0.00	0.00	0.00
7,300.0	3.48	184.70	7,192.3	-255.0	-20.3	-254.8	0.00	0.00	0.00
7,300.0	3.40	104.70	1,292.3	-255.0	-21.0	-204.0	0.00	0.00	0.00
7,400.0	3.48	184.70	7,392.1	-261.0	-21.5	-260.9	0.00	0.00	0.00
Start Drop -									
7,461.0	3.48	184.70	7,453.0	-264.7	-21.8	-264.6	0.00	0.00	0.00
7,500.0	2.70	184.70	7,491.9	-266.8	-21.9	-266.7	2.00	-2.00	0.00
7,600.0	0.70	184.70	7,591.9	-269.8	-22.2	-269.6	2.00	-2.00	0.00
Start 200.0	hold at 7635.1 MI	D							
7,635.1	0.00	0.00	7,627.0	-270.0	-22.2	-269.9	2.00	-2.00	0.00
7,700.0	0.00	0.00	7,691.9	-270.0	-22.2	-269.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,791.9	-270.0	-22.2	-269.9	0.00	0.00	0.00
Start DLS 1	0.00 TFO 359.76								
7,835.1	0.00	0.00	7,827.0	-270.0	-22.2	-269.9	0.00	0.00	0.00
7,850.0	1.49	359.76	7,841.9	-269.8	-22.2	-269.7	10.00	10.00	0.00
7,900.0	6.49	359.76	7,891.7	-266.3	-22.2	-266.2	10.00	10.00	0.00
7,950.0	11.49	359.76	7,941.1	-258.5	-22.3	-258.4	10.00	10.00	0.00
8,000.0	16.49	359.76	7,989.6	-246.4	-22.3	-246.3	10.00	10.00	0.00
8,050.0	21.49	359.76	8,036.9	-230.2	-22.4	-230.0	10.00	10.00	0.00
8,100.0	26.49	359.76	8,082.5	-209.9	-22.5	-209.7	10.00	10.00	0.00
8,150.0	31.49	359.76	8,126.3	-185.6	-22.6	-185.5	10.00	10.00	0.00
8,200.0	36.49	359.76	8,167.7	-157.7	-22.7	-157.6	10.00	10.00	0.00
8,250.0	41.49	359.76	8,206.6	-126.3	-22.8	-126.1	10.00	10.00	0.00
8,300.0	46.49	359.76	8,242.5	-91.5	-22.9	-91.4	10.00	10.00	0.00
8,350.0	51.49	359.76	8,275.3	-53.8	-23.1	-53.7	10.00	10.00	0.00
8,400.0	56.49	359.76	8,304.7	-13.4	-23.3	-13.2	10.00	10.00	0.00
8,450.0	61.49	359.76	8,330.5	29.4	-23.4	29.6	10.00	10.00	0.00
8,500.0		359.76	,	74.4	-23.4			10.00	
	66.49		8,352.4			74.5	10.00		0.00
8,550.0	71.49	359.76	8,370.3	121.0	-23.8	121.2	10.00	10.00	0.00
8,600.0	76.49	359.76	8,384.1	169.1	-24.0	169.2	10.00	10.00	0.00
8,650.0	81.49	359.76	8,393.6	218.1	-24.2	218.3	10.00	10.00	0.00
8,700.0	86.49	359.76	8,398.9	267.8	-24.4	268.0	10.00	10.00	0.00
-,		/ID	, *						



KLXWell Planning Report



Database: EDM 5000.1 Single User Db Company: Marathon Oil Permian LLC

Project: Eddy County, New Mexico (NAD 27)

Site: Sec 35, T24S, R28E

Well: Ripley 35-26 SB Fed Com 202H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ripley 35-26 SB Fed Com 202H

KB=26.5 @ 2981.5usft KB=26.5 @ 2981.5usft

Grid

esign:	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)
8,735.1	90.00	359.76	8,400.0	302.9	-24.6	303.1	10.00	10.00	0.00
8,800.0	90.00	359.76	8,400.0	367.8	-24.8	368.0	0.00	0.00	0.00
8,900.0	90.00	359.76	8,400.0	467.8	-25.3	468.0	0.00	0.00	0.00
9,000.0	90.00	359.76	8,400.0	567.8	-25.7	568.0	0.00	0.00	0.00
9,100.0	90.00	359.76	8,400.0	667.8	-26.1	668.0	0.00	0.00	0.00
9,200.0	90.00	359.76	8,400.0	767.8	-26.5	768.0	0.00	0.00	0.00
9,300.0	90.00	359.76	8,400.0	867.8	-26.9	868.0	0.00	0.00	0.00
9,400.0	90.00	359.76	8,400.0	967.8	-27.3	968.0	0.00	0.00	0.00
9,500.0	90.00	359.76	8,400.0	1,067.8	-27.7	1,068.0	0.00	0.00	0.00
9,600.0	90.00	359.76	8,400.0	1,167.8	-28.2	1,168.0	0.00	0.00	0.00
9,700.0	90.00	359.76	8,400.0	1,267.8	-28.6	1,268.0	0.00	0.00	0.00
9,800.0	90.00	359.76	8,400.0	1,367.8	-29.0	1,368.0	0.00	0.00	0.00
9,900.0	90.00	359.76	8,400.0	1,467.8	-29.4	1,468.0	0.00	0.00	0.00
10,000.0	90.00	359.76	8,400.0	1,567.8	-29.8	1,568.0	0.00	0.00	0.00
10,100.0	90.00	359.76	8,400.0	1,667.8	-30.2	1,668.0	0.00	0.00	0.00
10,200.0	90.00	359.76	8,400.0	1,767.8	-30.6	1,768.0	0.00	0.00	0.00
10,300.0	90.00	359.76	8,400.0	1,867.8	-31.1	1,868.0	0.00	0.00	0.00
10,400.0	90.00	359.76	8,400.0	1,967.8	-31.5	1,968.0	0.00	0.00	0.00
10,500.0	90.00	359.76	8,400.0	2,067.8	-31.9	2,068.0	0.00	0.00	0.00
10,600.0	90.00	359.76	8,400.0	2,167.8	-32.3	2,168.0	0.00	0.00	0.00
10,700.0	90.00	359.76	8,400.0	2,267.8	-32.7	2,268.0	0.00	0.00	0.00
10,800.0	90.00	359.76	8,400.0	2,367.8	-33.1	2,368.0	0.00	0.00	0.00
10,900.0	90.00	359.76	8,400.0	2,467.8	-33.5	2,468.0	0.00	0.00	0.00
11,000.0	90.00	359.76	8,400.0	2,567.8	-34.0	2,568.0	0.00	0.00	0.00
11,100.0	90.00	359.76	8,400.0	2,667.8	-34.4	2,668.0	0.00	0.00	0.00
11,200.0	90.00	359.76	8,400.0	2,767.8	-34.8	2,768.0	0.00	0.00	0.00
11,300.0	90.00	359.76	8,400.0	2,867.8	-35.2	2,868.0	0.00	0.00	0.00
11,400.0	90.00	359.76	8,400.0	2,967.8	-35.6	2,968.0	0.00	0.00	0.00
11,500.0	90.00	359.76	8,400.0	3,067.8	-36.0	3,068.0	0.00	0.00	0.00
11,600.0	90.00	359.76	8,400.0	3,167.8	-36.5	3,168.0	0.00	0.00	0.00
11,700.0	90.00	359.76	8,400.0	3,267.8	-36.9	3,268.0	0.00	0.00	0.00
11,800.0	90.00	359.76	8,400.0	3,367.8	-37.3	3,368.0	0.00	0.00	0.00
11,900.0	90.00	359.76	8,400.0	3,467.8	-37.7	3,468.0	0.00	0.00	0.00
12,000.0	90.00	359.76	8,400.0	3,567.8	-38.1	3,568.0	0.00	0.00	0.00
12,100.0	90.00	359.76	8,400.0	3,667.8	-38.5	3,668.0	0.00	0.00	0.00
12,200.0	90.00	359.76	8,400.0	3,767.8	-38.9	3,768.0	0.00	0.00	0.00
12,300.0	90.00	359.76	8,400.0	3,867.8	-39.4	3,868.0	0.00	0.00	0.00
12,400.0	90.00	359.76	8,400.0	3,967.8	-39.8	3,968.0	0.00	0.00	0.00
12,500.0	90.00	359.76	8,400.0	4,067.8	-40.2	4,068.0	0.00	0.00	0.00
12,600.0	90.00	359.76	8,400.0	4,167.8	-40.6	4,168.0	0.00	0.00	0.00
12,700.0	90.00	359.76	8,400.0	4,267.8	-41.0	4,268.0	0.00	0.00	0.00
12,800.0	90.00	359.76	8,400.0	4,367.8	-41.4	4,368.0	0.00	0.00	0.00
12,900.0	90.00	359.76	8,400.0	4,467.8	-41.8	4,468.0	0.00	0.00	0.00
13,000.0	90.00	359.76	8,400.0	4,567.8	-42.3	4,568.0	0.00	0.00	0.00
13,100.0	90.00	359.76	8,400.0	4,667.8	-42.7	4,668.0	0.00	0.00	0.00
13,200.0	90.00	359.76	8,400.0	4,767.8	-42. <i>1</i> -43.1	4,768.0	0.00	0.00	0.00
13,300.0	90.00	359.76	8,400.0	4,867.8	-43.1 -43.5	4,868.0	0.00	0.00	0.00
13,400.0	90.00	359.76	8,400.0	4,967.8	-43.5 -43.9	4,968.0	0.00	0.00	0.00
13,500.0	90.00	359.76	8,400.0	5,067.8	-43.9 -44.3	5,068.0	0.00	0.00	0.00
13,600.0	90.00	359.76	8,400.0	5,167.8	-44.7	5,168.0	0.00	0.00	0.00
13,700.0	90.00	359.76 359.76	8,400.0 8,400.0	5,167.8	-44.7 -45.2	5,166.0	0.00	0.00	0.00
13,700.0		359.76 359.76		,					
	90.00		8,400.0 8,400.0	5,367.8 5,467.8	-45.6	5,368.0 5,468.0	0.00	0.00	0.00
13,900.0	90.00	359.76	8,400.0	5,467.8	-46.0	5,468.0	0.00	0.00	0.00
14,000.0	90.00	359.76	8,400.0	5,567.8	-46.4	5,568.0	0.00	0.00	0.00



Well:

KLX Well Planning Report



EDM 5000.1 Single User Db Database: Company: Marathon Oil Permian LLC Project:

Eddy County, New Mexico (NAD 27)

Ripley 35-26 SB Fed Com 202H

Sec 35, T24S, R28E Site:

Wellbore #1 Wellbore: Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ripley 35-26 SB Fed Com 202H

KB=26.5 @ 2981.5usft KB=26.5 @ 2981.5usft

Grid

ign:	Design #1								
nned 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)
14,100.0	90.00	359.76	8,400.0	5,667.8	-46.8	5,668.0	0.00	0.00	0.00
14,200.0	90.00	359.76	8,400.0	5,767.8	-47.2	5,768.0	0.00	0.00	0.00
14,300.0	90.00	359.76	8,400.0	5,867.8	-47.6	5,868.0	0.00	0.00	0.00
14,400.0	90.00	359.76	8,400.0	5,967.8	-48.1	5,968.0	0.00	0.00	0.00
14,500.0	90.00	359.76	8,400.0	6,067.8	-48.5	6,068.0	0.00	0.00	0.00
14,600.0	90.00	359.76	8,400.0	6,167.8	-48.9	6,168.0	0.00	0.00	0.00
14,700.0	90.00	359.76	8,400.0	6,267.8	-49.3	6,268.0	0.00	0.00	0.00
14,800.0	90.00	359.76	8,400.0	6,367.8	-49.7	6,368.0	0.00	0.00	0.00
14,900.0	90.00	359.76	8,400.0	6,467.8	-50.1	6,468.0	0.00	0.00	0.00
15,000.0	90.00	359.76	8,400.0	6,567.8	-50.5	6,568.0	0.00	0.00	0.00
15,100.0	90.00	359.76	8,400.0	6,667.8	-51.0	6,668.0	0.00	0.00	0.00
15,200.0	90.00	359.76	8,400.0	6,767.8	-51.4	6,768.0	0.00	0.00	0.00
15,300.0	90.00	359.76	8,400.0	6,867.8	-51.8	6,868.0	0.00	0.00	0.00
15,400.0	90.00	359.76	8,400.0	6,967.8	-52.2	6,968.0	0.00	0.00	0.00
15,500.0	90.00	359.76	8,400.0	7,067.8	-52.6	7,068.0	0.00	0.00	0.00
15,600.0	90.00	359.76	8,400.0	7,167.8	-53.0	7.168.0	0.00	0.00	0.00
15,700.0	90.00	359.76	8,400.0	7,267.8	-53.4	7,268.0	0.00	0.00	0.00
15,800.0	90.00	359.76	8,400.0	7,367.8	-53.9	7,368.0	0.00	0.00	0.00
15,900.0	90.00	359.76	8,400.0	7,467.8	-54.3	7,468.0	0.00	0.00	0.00
16,000.0	90.00	359.76	8,400.0	7,567.8	-54.7	7,568.0	0.00	0.00	0.00
16,100.0	90.00	359.76	8.400.0	7,667.8	-55.1	7.668.0	0.00	0.00	0.00
16,200.0	90.00	359.76	8,400.0	7,767.8	-55.5	7,768.0	0.00	0.00	0.00
16,300.0	90.00	359.76	8,400.0	7,867.8	-55.9	7,868.0	0.00	0.00	0.00
16,400.0	90.00	359.76	8,400.0	7,967.8	-56.3	7,968.0	0.00	0.00	0.00
16,500.0	90.00	359.76	8,400.0	8,067.8	-56.8	8,068.0	0.00	0.00	0.00
16,600.0	90.00	359.76	8,400.0	8,167.8	-57.2	8,168.0	0.00	0.00	0.00
16,700.0	90.00	359.76	8,400.0	8,267.8	-57.6	8,268.0	0.00	0.00	0.00
16,800.0	90.00	359.76	8,400.0	8,367.8	-58.0	8,368.0	0.00	0.00	0.00
16,900.0	90.00	359.76	8,400.0	8,467.7	-58.4	8,468.0	0.00	0.00	0.00
17,000.0	90.00	359.76	8,400.0	8,567.7	-58.8	8,567.9	0.00	0.00	0.00
17,100.0	90.00	359.76	8,400.0	8,667.7	-59.2	8,667.9	0.00	0.00	0.00
17,100.0	90.00	359.76	8,400.0	8,767.7	-59.7	8,767.9	0.00	0.00	0.00
17,200.0	90.00	359.76 359.76	8,400.0	8.867.7	-59.7 -60.1	8.867.9	0.00	0.00	0.00
17,400.0	90.00	359.76	8,400.0	8,967.7	-60.1 -60.5	8,967.9	0.00	0.00	0.00
17,500.0	90.00	359.76	8,400.0	9,067.7	-60.9	9,067.9	0.00	0.00	0.00
17,600.0	90.00	359.76	8,400.0	9,167.7	-61.3	9,167.9	0.00	0.00	0.00
17,700.0	90.00	359.76 359.76	8,400.0 8,400.0	9,167.7	-61.3 -61.7	9,167.9	0.00	0.00	0.00
17,700.0	90.00	359.76 359.76	8,400.0 8.400.0	9,267.7	-61.7 -62.1	9,267.9	0.00	0.00	0.00
			-,	,		,			
17,900.0 18,000.0	90.00 90.00	359.76 359.76	8,400.0 8,400.0	9,467.7 9,567.7	-62.6 -63.0	9,467.9 9,567.9	0.00 0.00	0.00 0.00	0.00 0.00
18,100.0	90.00	359.76	8,400.0	9,667.7	-63.4	9,667.9	0.00	0.00	0.00
18,200.0	90.00	359.76	8,400.0	9,767.7	-63.8	9,767.9	0.00	0.00	0.00
18,300.0	90.00	359.76	8,400.0	9,867.7	-64.2	9,867.9	0.00	0.00	0.00
18,400.0	90.00	359.76	8,400.0	9,967.7	-64.6	9,967.9	0.00	0.00	0.00
18,500.0	90.00	359.76	8,400.0	10,067.7	-65.0	10,067.9	0.00	0.00	0.00
18,600.0	90.00	359.76	8,400.0	10,167.7	-65.5	10,167.9	0.00	0.00	0.00
18,700.0	90.00	359.76	8,400.0	10,267.7	-65.9	10,267.9	0.00	0.00	0.00
TD at 18714.									
18,714.3	90.00	359.76	8,400.0	10,282.0	-65.9	10,282.2	0.00	0.00	0.00



KLXWell Planning Report



Database: EDM 5000.1 Single User Db Company: Marathon Oil Permian LLC

Project: Eddy County, New Mexico (NAD 27)

Site: Sec 35, T24S, R28E

Well: Ripley 35-26 SB Fed Com 202H

Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Ripley 35-26 SB Fed Com 202H

KB=26.5 @ 2981.5usft KB=26.5 @ 2981.5usft

Grid

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ripley 35-26 SB Fed Co - plan hits target center - Point	0.00 er	0.00	7,627.0	-270.0	-22.2	424,412.83	586,699.42	32° 9' 59.463 N	104° 3' 11.325 W
Ripley 35-26 SB Fed Co - plan misses target c - Point	0.00 enter by 202.	0.00 9usft at 8306	8,400.0 6.4usft MD (-220.0 8246.9 TVD, -	-22.2 -86.9 N, -23.0 E	424,462.83 E)	586,699.46	32° 9' 59.958 N	104° 3' 11.323 W
Ripley 35-26 SB Fed Co - plan hits target center - Point	0.00 er	0.00	8,400.0	10,282.0	-65.9	434,964.87	586,655.69	32° 11' 43.891 N	104° 3' 11.514 W

Plan Annotations				
Measure	Measured Vertical Local Coordinates		dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
3,000	.0 3,000.0	0.0	0.0	Start Build 2.00
3,174	.1 3,174.0	-5.3	-0.4	Start 4287.0 hold at 3174.1 MD
7,461	.0 7,453.0	-264.7	-21.8	Start Drop -2.00
7,635	.1 7,627.0	-270.0	-22.2	Start 200.0 hold at 7635.1 MD
7,835	.1 7,827.0	-270.0	-22.2	Start DLS 10.00 TFO 359.76
8,735	.1 8,400.0	302.9	-24.6	Start 9979.2 hold at 8735.1 MD
18,714	.3 8,400.0	10,282.0	-65.9	TD at 18714.3



TEC-LOCK WEDGE

5.500" 23 LB/FT (.415"Wall) BENTELER P110 CY

Pipe Body Data

ı	Nominal OD:	5.500	in
	Nominal Wall:	.415	in
l	Nominal Weight:	23.00	lb/ft
l	Plain End Weight:	22.56	lb/ft
l	Material Grade:	P110 CY	
l	Mill/Specification:	BENTELER	
	Yield Strength:	125,000	psi
	Tensile Strength:	130,000	psi
	Nominal ID:	4.670	in
	API Drift Diameter:	4.545	in
	Special Drift Diameter:	None	in
	RBW:	87.5 %	
	Body Yield:	829,000	lbf
	Burst:	16,510	psi
	Collapse:	16,910	psi
	<u> </u>		<u> </u>

Connection Data

Standard OD:	5.950	in
Pin Bored ID:	4.670	in
Critical Section Area:	6.457	in²
Tensile Efficiency:	97.4 %	
Compressive Efficiency:	100 %	
Longitudinal Yield Strength:	807,000	lbf
Compressive Limit:	829,000	lbf
Internal Pressure Rating:	16,510	psi
External Pressure Rating:	16,910	psi
Maximum Bend:	101.5	°/100ft

Operational Data

Minimum Makeup Torque:	16,400	ft*lbf
Optimum Makeup Torque:	20,500	ft*lbf
Maximum Makeup Torque:	44,300	ft*lbf
Minimum Yield:	49,200	ft*lbf
Makeup Loss:	5.97	in

Notes Operational Torque is equivalent to the Maximum Make-Up Torque



Generated on Mar 12, 2019



Technical Data Sheet

9 5/8" 40.00 lbs/ft. P110HC - BTC

Мес	chanica	al Properties	;		
Minimum Yield Strength	psi.	110,000			
Maximum Yield Strength	psi.	140,000			
Minimum Tensile Strength	psi.	125,000			
	Dime	ensions			
		Pipe	ВТС	LTC	STC
Outside Diameter	in.	9.625	10.625	-	-
Wall Thickness	in.	0.395	-	-	-
Inside Diameter	in.	8.835	-	-	-
Standard Drift	in.	-	-	-	-
Alternate Drift	in.	8.750	-	-	-
Plain End Weight	lbs/ft.	-	-	-	-
Nominal Linear Weight	lbs/ft.	40.00	-	-	-
	Perfo	rmance			
		Pipe	ВТС	LTC	STC
Minimum Collapse Pressure	psi.	4,230	-	-	-
Minimum Internal Yield Pressure	psi.	7,910	7,910	-	-
Minimum Pipe Body Yield Strength	lbs.	1,260 x 1,000	-	-	-
Joint Strength	lbs.	-	1,266 x 1,000	-	-
M	lake-U	p Torques			
		Pipe	ВТС	LTC	STC
Make-Up Loss	in.	-	4.81	-	-
Optimum Make-Up Torque	ft/lbs.	-	-	-	-
·					

Disclaimer: The content of this Technical Data Sheet is for general information only and does not guarantee performance and/or accuracy, which can only be determined by a professional expert with the specific installation and operation parameters. Information printed or downloaded may not be current and no longer in control by Axis Pipe and Tube. Anyone using the information herein does so at his or her own risk. To verify that you have the latest technical information, please contact Axis Pipe and Tube Technical Sales +1 (979) 599-7600, www.axispipeandtube.com

File: Basis of Design Malaga WA -New Design * Date: December 07, 2021 Page: 1 Design Limits (5 1/2" Production Casing - Section 1) 18000 Pressure Test Tri-axial 1.250 Tubing Leak Stimulation Surface Leak 15000 Injection Down Casing Tension 1.800 Green Cement Pressure Test (Burst) ırst 1.150 Full Evacuation Running in Hole 12000 Overpull Force Green Cement Pressure Test (Axial) 9000 6000 3000 Differential Pressure (psi) Compression 1.800 onnection Tension 1/800 -3000 -6000 -9000 -12000 Connection Compression 1.800 -15000 Collapse 1.125 -18000 Note: Limits are approximate

MALAGA TB & WA - New Design

-600000

-450000

-300000

-150000

Equivalent Axial Load (lbf)

150000

300000

-750000

StressCheck 5000.16.1.02 Build 14

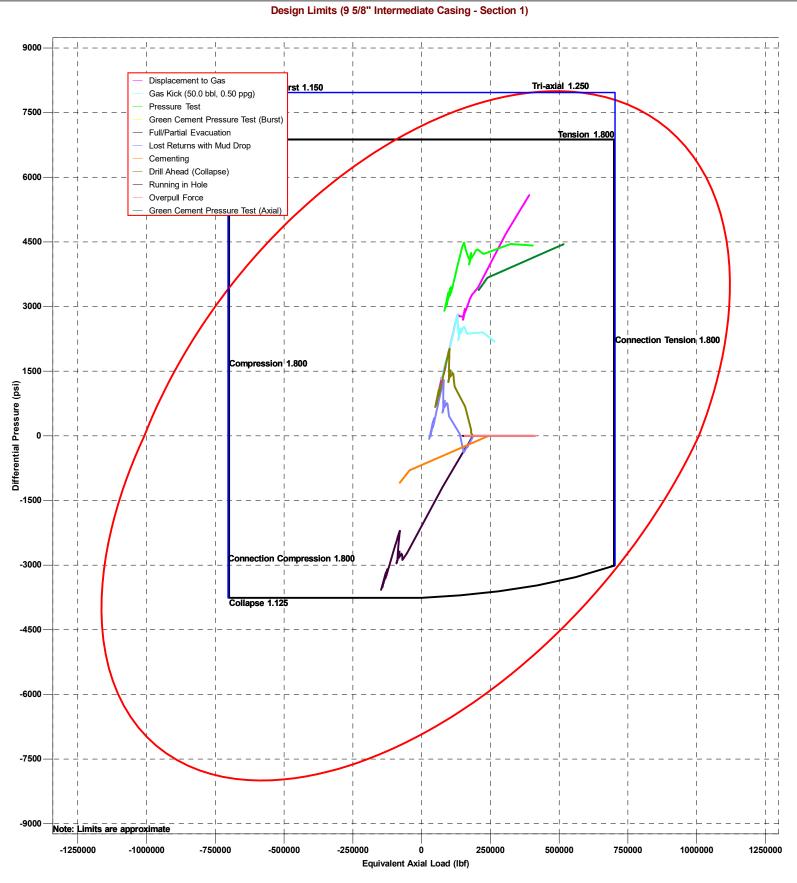
600000

750000

450000

File: Basis of Design Malaga WA -New Design *

Page 22 of 25 Date: December 07, 2021 Page: 1 Tri-axial 1.250 Connection Tension 1.800

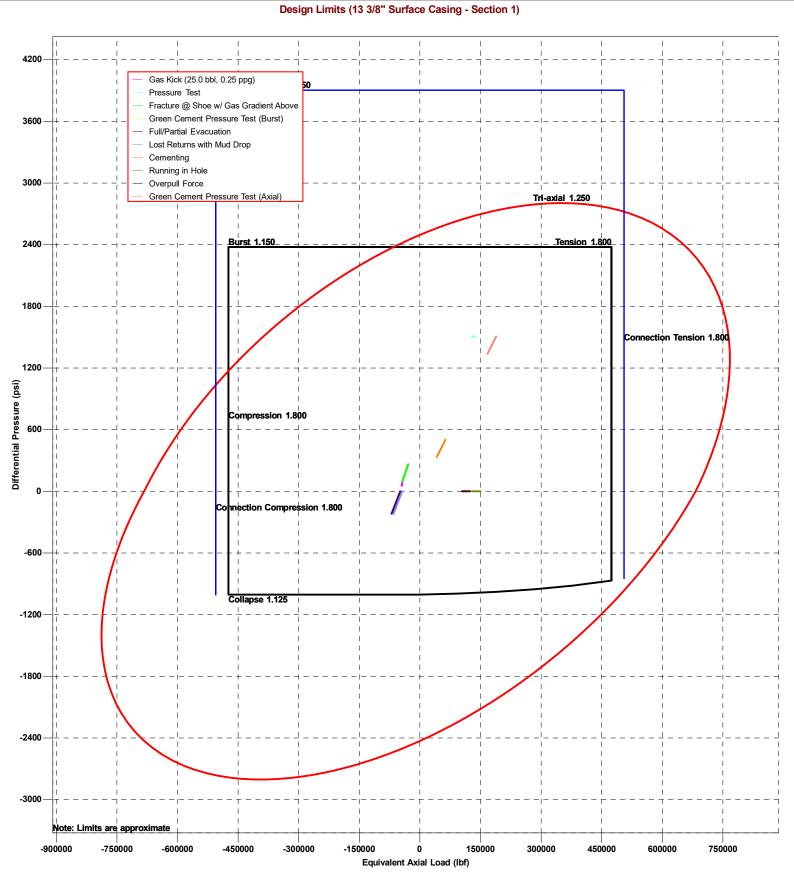


MALAGA TB & WA - New Design

StressCheck 5000.16.1.02 Build 14

File: Basis of Design Malaga WA -New Design *

Date: December 07, 2021 Page: 1



MALAGA TB & WA - New Design

StressCheck 5000.16.1.02 Build 14

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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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**

COMMENTS

Action 121473

COMMENTS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	121473
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

COMMENTS

	Created By		Comment Date
Ī	kpickford	Defining well	10/7/2022

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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 121473

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	121473
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created	By Condition	Condition Date
jagaro	ia None	10/24/2022