Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No. NMNM25953

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No. RIPLEY 35 WXY FED COM/5H

2. Name of Operator MARATHON OIL PERMIAN LLC

9. API Well No. 3001547614

3a. Address 990 TOWN & COUNTRY BLVD, HOUSTON, TX

3b. Phone No. *(include area code)* (000) 000-0000

10. Field and Pool or Exploratory Area PURPLE SAGE/PURPLE SAGE WOLFCAMP GAS

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
SEC 35/T24S/R28E/NMP

11. Country or Parish, State
EDDY/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
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ 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 recomplete 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 recompletion 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 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, Dedicated Acreage, 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.

NOTE: all requested changes are DOWNHOLE only, no surface changes requested.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
MELISSA SZUDERA / Ph: (713) 296-3179

Title REGULATORY COMPLIANCE REPRESENTATIVE

Signature

Date 03/02/2022

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by
ZOTA M STEVENS / Ph: (575) 234-5998 / Approved

Title Petroleum Engineer

Date 05/10/2022

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 ofthis form to U.S. Department ofthe Interior, Bureau ofLand 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: SWSE / 320 FSL / 1356 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1673835 / LONG: -104.053756 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 1339 FNL / 2323 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1775478 / LONG: -104.0569494 (TVD: 9665 feet, MD: 13418 feet)

PPP: SWSE / 330 FSL / 2318 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1674181 / LONG: -104.0568644 (TVD: 9551 feet, MD: 9708 feet)

BHL: NWNE / 330 FNL / 2324 FEL / TWSP: 24S / RANGE: 28E / SECTION: 35 / LAT: 32.1803168 / LONG: -104.0569727 (TVD: 9665 feet, MD: 14427 feet)

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

Sundry Print Report

05/12/2022

Well Name: RIPLEY 35-26 WXY FED COM

Well Location: T24S / R28E / SEC 35 / SWSE / 32.1673835 / -104.053756

County or Parish/State: EDDY / NM

Well Number: 5H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM025953, NMNM25953

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547614

Well Status: Approved Application for Permit to Drill

Operator: MARATHON OIL PERMIAN LLC

Notice of Intent

Sundry ID: 2659593

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/02/2022

Time Sundry Submitted: 10:28

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, Dedicated Acreage, 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. NOTE: all requested changes are DOWNHOLE only, no surface changes requested.

NOI Attachments

Procedure Description

Sub_SN_Att_RIPLEY_35_26_WXY_FED_COM_5H_02.17.22_20220302095659.pdf

Well Name: RIPLEY 35-26 WXY FED COM

Well Location: T24S / R28E / SEC 35 / SWSE / 32.1673835 / -104.053756

County or Parish/State: EDDY / NM

Well Number: 5H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM025953, NMNM25953

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001547614

Well Status: Approved Application for Permit to Drill

Operator: MARATHON OIL PERMIAN LLC

Conditions of Approval

Specialist Review

Ripley_35_26_WXY_Fed_Com_5H_COA_20220510121909.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: MAR 02, 2022 09:57 AM

Name: MARATHON OIL PERMIAN LLC

Title: REGULATORY COMPLIANCE REPRESENTATIVE

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: **State:** **Zip:**

Phone:

Email address:

BLM Point of Contact

BLM POC Name: ZOTA M STEVENS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752345998

BLM POC Email Address: ZSTEVENS@BLM.GOV

Disposition: Approved

Disposition Date: 05/10/2022

Signature: Zota Stevens

Marathon Oil Permian, LLC.

Summary of Changes for NOI Change to AAPD Sundry Submittal

Well Name: **Ripley 35-26 WXY Fed Com 5H**
APD ID Num: **10400035937**
API Num: **3001547614**

		Approved APD	Submitted Sundry
Well Name & Number		Ripley 35 WXY Fed Com 5H	Ripley 35-26 WXY Fed Com 5H
Lateral Length		SL	XXL
Target Formation		WXY	WXY
TVD		9665	9650
MD		14427	19838
Pool Name		Purple Sage; Wolfcamp Gas	Purple Sage; Wolfcamp Gas
Pool Code		98220	98220
Dedicated Acreage		320	640
Elevation		2955	2955
SHL	FOOTAGE	320 FSL 1356 FEL	320 FSL 1356 FEL
	UL	O	O
	Q/Q	SWSE	SWSE
	S-T-R	35-24S-28E	35-24S-28E
FTP	FOOTAGE	330 FSL 2318 FEL	330 FSL 2320 FEL
	UL	O	O
	Q/Q	SWSE	SWSE
	S-T-R	35-24S-28E	35-24S-28E
LTP	FOOTAGE	330 FNL 2324 FEL	330 FNL 2320 FEL
	UL	B	B
	Q/Q	NWNE	NWNE
	S-T-R	35-24S-28E	26-24S-28E
Casing Stages		4	3
Surf Csg	Top MD	0	0
	Bottom MD	741	731
	Size, Weight, Grade Connection	13.375" 54.5# J55 STC	13.375" 54.5# J55 BTC
Int 1 Csg	Top MD	0	0
	Bottom MD	2610	7633
	Size, Weight, Grade Connection	9.625" 40# J55 LTC	9.625" 40# P110HC BTC
Int 2 Csg	Top MD	0	-
	Bottom MD	10080	-
	Size, Weight, Grade Connection	7" 29# P110 BTC	-
Prod Csg	Top MD	9780	0
	Bottom MD	14427	19838
	Size, Weight, Grade Connection	4.5" 13.5# P110 BTC	5.5" 23# P110HC TLW

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	[2] Pool Code	[3] Pool Name
30-015-47614	98220	WOLFCAMP; PURPLE SAGE

[4] Property Code	[5] Property Name	[6] Well Number
	RIPLEY 35-26 WXY FED COM	5H

[7] OGRID No.	[8] Operator Name	[9] Elevation
372098	MARATHON OIL PERMIAN LLC	2955'

[10] Surface Location

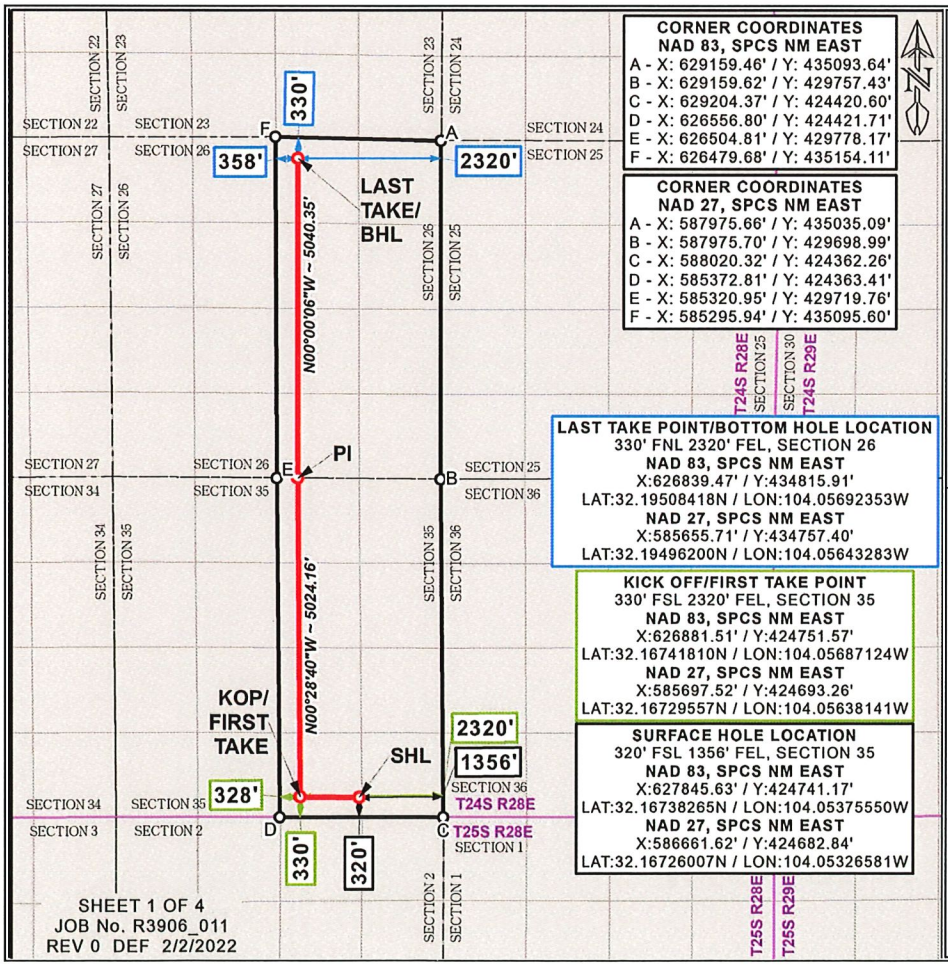
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	35	24S	28E		320	SOUTH	1356	EAST	EDDY

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	26	24S	28E		330	NORTH	2320	EAST	EDDY

[12] Dedicated Acres	[13] Joint or Infill	[14] 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.



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

02/22/2022
Signature Date

Melissa Szudera
Printed Name

mszudera@marathonoil.com
E-mail Address

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEBRUARY 22, 2022
Date of Survey

Signature and Seal of Professional Surveyor

DAVID W. MYERS NEW MEXICO 11403 PROFESSIONAL SURVEYOR

Certificate Number
DAVID W. MYERS 11403

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 WXY FED COM 5H**

LOCATION: SECTION **35** TOWNSHIP **24S** RANGE **28E**

Eddy 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	2171	Anhydrite	Brine	No
Salado	750	750	1720	Salt/Anhydrite	Brine	No
Castile	1009	1009	-354	Salt/Anhydrite	Brine	No
Base of Salt (BX)	2688	2688	-2121	Salt/Anhydrite	Brine	No
Lamar	2688	2688	-2121	Sandstone/Shale	None	No
Bell Canyon	2721	2721	-2146	Sandstone	Oil	No
Cherry Canyon	3600	3600	-3446	Sandstone	Oil	No
Brushy Canyon	4880	4880	-4609	Sandstone	Oil	No
Bone Spring Lime	6434	6434	-6055	Limestone	None	No
Upper Avalon Shale	6480	6480	-6093	Shale	Oil	Yes
1st Bone Spring Sand	7357	7357	-7390	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	7633	7633	-7593	Limestone/Shale	None	No
2nd Bone Spring Sand	7980	7980	-7904	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	7633	7633	-8373	Limestone	Oil	No
3rd Bone Spring Sand	9259	9259	-8964	Sandstone	Oil	Yes
Wolfcamp	9626	9626	-9368	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	9773	9773	-9493	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	10065	10065	-9822	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp C	10334	10334	-10140	Sandstone/Shale/Carbonates	Natural Gas / Oil	No
Wolfcamp D	10843	10843	-10531	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.

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	731	0	731	2955	2224	54.5	J55	BTC	5.22	1.81	BUOY	4.52	BUOY	4.52
Intermediate	12.25	9.625	0	7633	0	7633	2955	-4678	40	P110HC	BTC	1.20	1.42	BUOY	2.44	BUOY	2.44
Production	8.75	5.5	0	19838	0	9650	2955	-6695	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 (ft^3/sks)	Density (ppg)	Slurry Volume (ft^3)	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	7133	1302	2.18	12.4	2838	25	Class C	Extender,Accelerator,LCM
Intermediate	Tail	7133	7633	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	7333	19838	2391	1.68	13	4017	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	731	Water Based Mud	8.4	8.8
731	7633	Brine or Oil Based Mud	9.2	10.2
7633	19838	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: **6273** 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.

Ripley 35-26 WXY Fed Com 5H
Eddy County, New Mexico (NAD 27)
Q2100 & MC-2100****
Design #1

PROJECT DETAILS: Eddy County, New Mexico (NAD 27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: Ripley 35-26 WXY Fed Com 5H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	424682.84	2955.0 586661.62	32° 10' 2.136 N	104° 3' 11.757 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Ripley 35-26 WXY Fed Com 5H-VP - plan hits target center	8877.0	-269.6	-962.9	424413.27	585698.68	32° 9' 59.493 N	104° 3' 22.968 W	Point
Ripley 35-26 WXY Fed Com 5H-FTP - plan misses target center by 70.6usft at 9798.5usft MD (9588.3 TVD, 44.3 N, -964.2 E)	9650.0	10.4	-964.1	424693.26	585697.52	32° 10' 2.264 N	104° 3' 22.973 W	Point
Ripley 35-26 WXY Fed Com 5H-LTP - plan hits target center	9650.0	10074.6	-1005.9	434757.40	585655.7132° 11' 41.863 N		104° 3' 23.158 W	Point

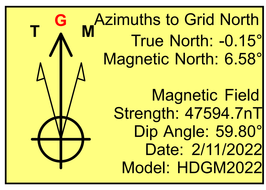
Company Name: Marathon Oil Permian LLC
Ripley 35-26 WXY Fed Com 5H
Eddy County, New Mexico (NAD 27)
Rig:
Created By: Michael Hilliard
Date: 2/21/2022

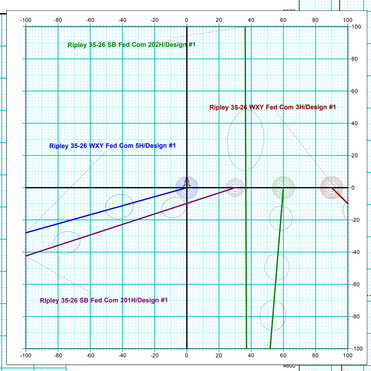
DESIGN ANNOTATIONS

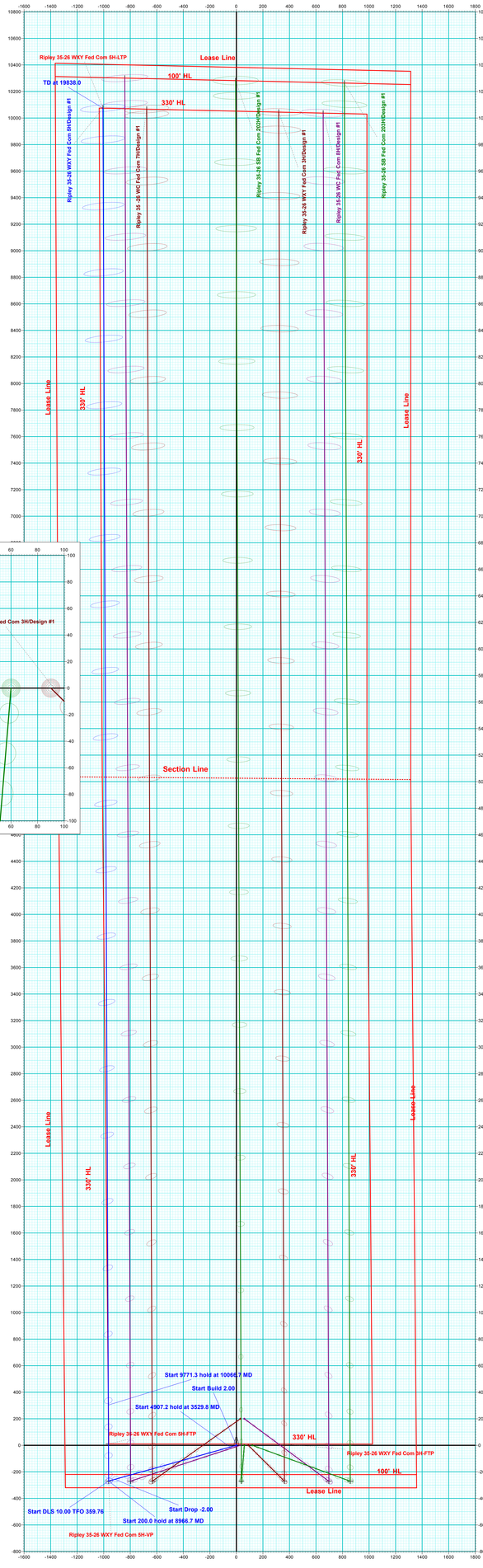
MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
3000.0	0.00	0.00	3000.0	0.0	0.0	0.0	0.0	Start Build 2.00
3529.8	10.60	254.36	3526.7	-13.2	-47.0	-8.4	48.8	Start 4907.2 hold at 3529.8 MD
8436.9	10.60	254.36	8350.3	-256.4	-915.9	-164.1	951.1	Start Drop -2.00
8966.7	0.00	0.00	8877.0	-269.6	-962.9	-172.6	1000.0	Start 200.0 hold at 8966.7 MD
9166.7	0.00	0.00	9077.0	-269.6	-962.9	-172.6	1000.0	Start DLS 10.00 TFO 359.76
10066.7	90.00	359.76	9650.0	303.4	-965.3	397.8	1572.9	Start 9771.3 hold at 10066.7 MD
19838.0	90.00	359.76	9650.0	10074.6	-1005.9	10124.7	11344.2	TD at 19838.0

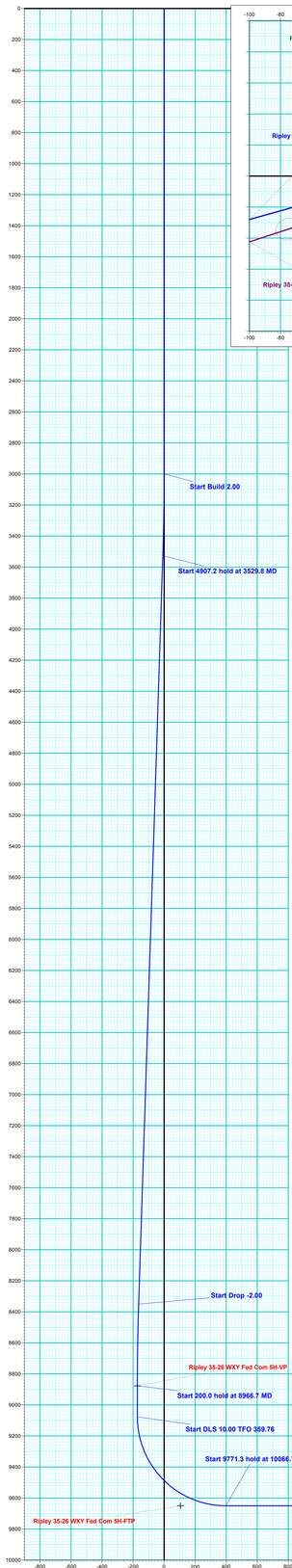
KLX Directional Drilling

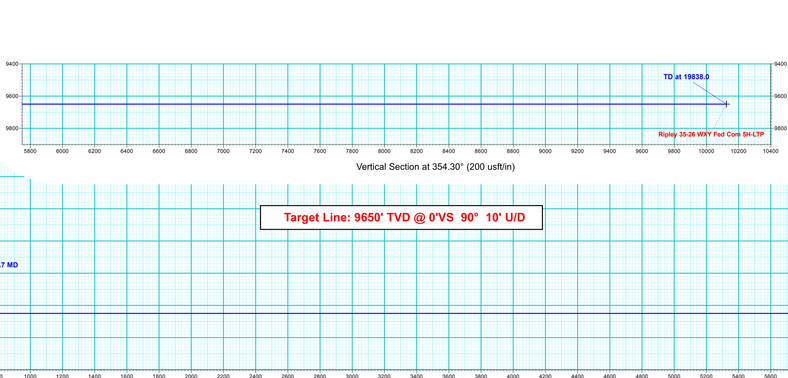
Marathon Oil











Target Line: 9650' TVD @ 0'VS 90° 10' U/D

Marathon Oil Permian LLC

Eddy County, New Mexico (NAD 27)
Sec 35, T24S, R28E
Ripley 35-26 WXY Fed Com 5H

Wellbore #1

Plan: Design #1

KLX Well Planning Report

16 February, 2022

Marathon Oil

KLX

Well Planning Report

KLX Directional Drilling

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Ripley 35-26 WXY Fed Com 5H
Company:	Marathon Oil Permian LLC	**TVD Reference:**	KB=26.5 @ 2981.5usft
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	KB=26.5 @ 2981.5usft
Site:	Sec 35, T24S, R28E	**North Reference:**	Grid
Well:	Ripley 35-26 WXY Fed Com 5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project Eddy County, New Mexico (NAD 27)

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

Site Sec 35, T24S, R28E

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

Well Ripley 35-26 WXY Fed Com 5H

Well Position	**+N/-S**	0.0 usft	**Northing:**	424,682.84 usft	**Latitude:**	32° 10' 2.136 N
	+E/-W	-30.0 usft	**Easting:**	586,661.62 usft	**Longitude:**	104° 3' 11.757 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)
	HDGM2022	2/11/2022	6.73	59.80	47,594.70000000

Design Design #1

Audit Notes:

Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	354.30

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
0.0	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	
3,529.8	10.60	254.36	3,526.7	-13.2	-47.0	2.00	2.00	0.00	254.36	
8,436.9	10.60	254.36	8,350.3	-256.4	-915.9	0.00	0.00	0.00	0.00	
8,966.7	0.00	0.00	8,877.0	-269.6	-962.9	2.00	-2.00	0.00	180.00	Ripley 35-26 WXY Fe
9,166.7	0.00	0.00	9,077.0	-269.6	-962.9	0.00	0.00	0.00	0.00	
10,066.7	90.00	359.76	9,650.0	303.4	-965.3	10.00	10.00	-0.03	359.76	
19,838.0	90.00	359.76	9,650.0	10,074.6	-1,005.9	0.00	0.00	0.00	0.00	Ripley 35-26 WXY Fe

Marathon Oil

KLX

Well Planning Report

KLX Directional Drilling

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Ripley 35-26 WXY Fed Com 5H
Company:	Marathon Oil Permian LLC	**TVD Reference:**	KB=26.5 @ 2981.5usft
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	KB=26.5 @ 2981.5usft
Site:	Sec 35, T24S, R28E	**North Reference:**	Grid
Well:	Ripley 35-26 WXY Fed Com 5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	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
800.0	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
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	0.0	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 2.00									
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	254.36	3,100.0	-0.5	-1.7	-0.3	2.00	2.00	0.00
3,200.0	4.00	254.36	3,199.8	-1.9	-6.7	-1.2	2.00	2.00	0.00
3,300.0	6.00	254.36	3,299.5	-4.2	-15.1	-2.7	2.00	2.00	0.00
3,400.0	8.00	254.36	3,398.7	-7.5	-26.8	-4.8	2.00	2.00	0.00
3,500.0	10.00	254.36	3,497.5	-11.7	-41.9	-7.5	2.00	2.00	0.00
Start 4907.2 hold at 3529.8 MD									
3,529.8	10.60	254.36	3,526.7	-13.2	-47.0	-8.4	2.00	2.00	0.00
3,600.0	10.60	254.36	3,595.8	-16.6	-59.5	-10.7	0.00	0.00	0.00
3,700.0	10.60	254.36	3,694.1	-21.6	-77.2	-13.8	0.00	0.00	0.00
3,800.0	10.60	254.36	3,792.4	-26.6	-94.9	-17.0	0.00	0.00	0.00
3,900.0	10.60	254.36	3,890.7	-31.5	-112.6	-20.2	0.00	0.00	0.00
4,000.0	10.60	254.36	3,989.0	-36.5	-130.3	-23.4	0.00	0.00	0.00
4,100.0	10.60	254.36	4,087.3	-41.4	-148.0	-26.5	0.00	0.00	0.00
4,200.0	10.60	254.36	4,185.6	-46.4	-165.7	-29.7	0.00	0.00	0.00
4,300.0	10.60	254.36	4,283.9	-51.3	-183.4	-32.9	0.00	0.00	0.00
4,400.0	10.60	254.36	4,382.1	-56.3	-201.1	-36.0	0.00	0.00	0.00
4,500.0	10.60	254.36	4,480.4	-61.3	-218.8	-39.2	0.00	0.00	0.00
4,600.0	10.60	254.36	4,578.7	-66.2	-236.5	-42.4	0.00	0.00	0.00
4,700.0	10.60	254.36	4,677.0	-71.2	-254.2	-45.6	0.00	0.00	0.00
4,800.0	10.60	254.36	4,775.3	-76.1	-271.9	-48.7	0.00	0.00	0.00
4,900.0	10.60	254.36	4,873.6	-81.1	-289.7	-51.9	0.00	0.00	0.00
5,000.0	10.60	254.36	4,971.9	-86.0	-307.4	-55.1	0.00	0.00	0.00

Marathon Oil

KLX

Well Planning Report

KLX Directional Drilling

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Ripley 35-26 WXY Fed Com 5H
Company:	Marathon Oil Permian LLC	**TVD Reference:**	KB=26.5 @ 2981.5usft
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	KB=26.5 @ 2981.5usft
Site:	Sec 35, T24S, R28E	**North Reference:**	Grid
Well:	Ripley 35-26 WXY Fed Com 5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	10.60	254.36	5,070.2	-91.0	-325.1	-58.3	0.00	0.00	0.00
5,200.0	10.60	254.36	5,168.5	-96.0	-342.8	-61.4	0.00	0.00	0.00
5,300.0	10.60	254.36	5,266.8	-100.9	-360.5	-64.6	0.00	0.00	0.00
5,400.0	10.60	254.36	5,365.1	-105.9	-378.2	-67.8	0.00	0.00	0.00
5,500.0	10.60	254.36	5,463.4	-110.8	-395.9	-70.9	0.00	0.00	0.00
5,600.0	10.60	254.36	5,561.7	-115.8	-413.6	-74.1	0.00	0.00	0.00
5,700.0	10.60	254.36	5,660.0	-120.7	-431.3	-77.3	0.00	0.00	0.00
5,800.0	10.60	254.36	5,758.3	-125.7	-449.0	-80.5	0.00	0.00	0.00
5,900.0	10.60	254.36	5,856.6	-130.7	-466.7	-83.6	0.00	0.00	0.00
6,000.0	10.60	254.36	5,954.9	-135.6	-484.4	-86.8	0.00	0.00	0.00
6,100.0	10.60	254.36	6,053.2	-140.6	-502.1	-90.0	0.00	0.00	0.00
6,200.0	10.60	254.36	6,151.5	-145.5	-519.8	-93.2	0.00	0.00	0.00
6,300.0	10.60	254.36	6,249.8	-150.5	-537.5	-96.3	0.00	0.00	0.00
6,400.0	10.60	254.36	6,348.1	-155.4	-555.2	-99.5	0.00	0.00	0.00
6,500.0	10.60	254.36	6,446.3	-160.4	-572.9	-102.7	0.00	0.00	0.00
6,600.0	10.60	254.36	6,544.6	-165.4	-590.7	-105.9	0.00	0.00	0.00
6,700.0	10.60	254.36	6,642.9	-170.3	-608.4	-109.0	0.00	0.00	0.00
6,800.0	10.60	254.36	6,741.2	-175.3	-626.1	-112.2	0.00	0.00	0.00
6,900.0	10.60	254.36	6,839.5	-180.2	-643.8	-115.4	0.00	0.00	0.00
7,000.0	10.60	254.36	6,937.8	-185.2	-661.5	-118.5	0.00	0.00	0.00
7,100.0	10.60	254.36	7,036.1	-190.1	-679.2	-121.7	0.00	0.00	0.00
7,200.0	10.60	254.36	7,134.4	-195.1	-696.9	-124.9	0.00	0.00	0.00
7,300.0	10.60	254.36	7,232.7	-200.0	-714.6	-128.1	0.00	0.00	0.00
7,400.0	10.60	254.36	7,331.0	-205.0	-732.3	-131.2	0.00	0.00	0.00
7,500.0	10.60	254.36	7,429.3	-210.0	-750.0	-134.4	0.00	0.00	0.00
7,600.0	10.60	254.36	7,527.6	-214.9	-767.7	-137.6	0.00	0.00	0.00
7,700.0	10.60	254.36	7,625.9	-219.9	-785.4	-140.8	0.00	0.00	0.00
7,800.0	10.60	254.36	7,724.2	-224.8	-803.1	-143.9	0.00	0.00	0.00
7,900.0	10.60	254.36	7,822.5	-229.8	-820.8	-147.1	0.00	0.00	0.00
8,000.0	10.60	254.36	7,920.8	-234.7	-838.5	-150.3	0.00	0.00	0.00
8,100.0	10.60	254.36	8,019.1	-239.7	-856.2	-153.4	0.00	0.00	0.00
8,200.0	10.60	254.36	8,117.4	-244.7	-874.0	-156.6	0.00	0.00	0.00
8,300.0	10.60	254.36	8,215.7	-249.6	-891.7	-159.8	0.00	0.00	0.00
8,400.0	10.60	254.36	8,314.0	-254.6	-909.4	-163.0	0.00	0.00	0.00
Start Drop -2.00									
8,436.9	10.60	254.36	8,350.3	-256.4	-915.9	-164.1	0.00	0.00	0.00
8,500.0	9.33	254.36	8,412.4	-259.3	-926.4	-166.0	2.00	-2.00	0.00
8,600.0	7.33	254.36	8,511.3	-263.3	-940.4	-168.5	2.00	-2.00	0.00
8,700.0	5.33	254.36	8,610.7	-266.2	-951.0	-170.4	2.00	-2.00	0.00
8,800.0	3.33	254.36	8,710.4	-268.3	-958.3	-171.7	2.00	-2.00	0.00
8,900.0	1.33	254.36	8,810.3	-269.4	-962.2	-172.4	2.00	-2.00	0.00
Start 200.0 hold at 8966.7 MD									
8,966.7	0.00	0.00	8,877.0	-269.6	-962.9	-172.6	2.00	-2.00	0.00
9,000.0	0.00	0.00	8,910.3	-269.6	-962.9	-172.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,010.3	-269.6	-962.9	-172.6	0.00	0.00	0.00
Start DLS 10.00 TFO 359.76									
9,166.7	0.00	0.00	9,077.0	-269.6	-962.9	-172.6	0.00	0.00	0.00
9,200.0	3.33	359.76	9,110.3	-268.6	-962.9	-171.6	10.00	10.00	0.00
9,250.0	8.33	359.76	9,160.0	-263.5	-963.0	-166.5	10.00	10.00	0.00
9,300.0	13.33	359.76	9,209.1	-254.1	-963.0	-157.2	10.00	10.00	0.00
9,350.0	18.33	359.76	9,257.2	-240.5	-963.1	-143.6	10.00	10.00	0.00
9,400.0	23.33	359.76	9,303.9	-222.7	-963.1	-125.9	10.00	10.00	0.00
9,450.0	28.33	359.76	9,348.9	-200.9	-963.2	-104.3	10.00	10.00	0.00

Marathon Oil

KLX

Well Planning Report

KLX Directional Drilling

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Ripley 35-26 WXY Fed Com 5H
Company:	Marathon Oil Permian LLC	**TVD Reference:**	KB=26.5 @ 2981.5usft
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	KB=26.5 @ 2981.5usft
Site:	Sec 35, T24S, R28E	**North Reference:**	Grid
Well:	Ripley 35-26 WXY Fed Com 5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,500.0	33.33	359.76	9,391.8	-175.3	-963.3	-78.8	10.00	10.00	0.00
9,550.0	38.33	359.76	9,432.3	-146.1	-963.4	-49.6	10.00	10.00	0.00
9,600.0	43.33	359.76	9,470.2	-113.4	-963.6	-17.1	10.00	10.00	0.00
9,650.0	48.33	359.76	9,505.0	-77.5	-963.7	18.6	10.00	10.00	0.00
9,700.0	53.33	359.76	9,536.6	-38.8	-963.9	57.2	10.00	10.00	0.00
9,750.0	58.33	359.76	9,564.6	2.6	-964.1	98.3	10.00	10.00	0.00
9,800.0	63.33	359.76	9,589.0	46.2	-964.2	141.8	10.00	10.00	0.00
9,850.0	68.33	359.76	9,609.5	91.8	-964.4	187.2	10.00	10.00	0.00
9,900.0	73.33	359.76	9,625.9	139.0	-964.6	234.2	10.00	10.00	0.00
9,950.0	78.33	359.76	9,638.1	187.5	-964.8	282.4	10.00	10.00	0.00
10,000.0	83.33	359.76	9,646.1	236.8	-965.0	331.5	10.00	10.00	0.00
10,050.0	88.33	359.76	9,649.7	286.7	-965.2	381.2	10.00	10.00	0.00
Start 9771.3 hold at 10066.7 MD									
10,066.7	90.00	359.76	9,650.0	303.4	-965.3	397.8	10.00	10.00	0.00
10,100.0	90.00	359.76	9,650.0	336.7	-965.5	430.9	0.00	0.00	0.00
10,200.0	90.00	359.76	9,650.0	436.7	-965.9	530.5	0.00	0.00	0.00
10,300.0	90.00	359.76	9,650.0	536.7	-966.3	630.0	0.00	0.00	0.00
10,400.0	90.00	359.76	9,650.0	636.7	-966.7	729.6	0.00	0.00	0.00
10,500.0	90.00	359.76	9,650.0	736.7	-967.1	829.1	0.00	0.00	0.00
10,600.0	90.00	359.76	9,650.0	836.7	-967.5	928.7	0.00	0.00	0.00
10,700.0	90.00	359.76	9,650.0	936.7	-967.9	1,028.2	0.00	0.00	0.00
10,800.0	90.00	359.76	9,650.0	1,036.7	-968.4	1,127.8	0.00	0.00	0.00
10,900.0	90.00	359.76	9,650.0	1,136.7	-968.8	1,227.3	0.00	0.00	0.00
11,000.0	90.00	359.76	9,650.0	1,236.7	-969.2	1,326.9	0.00	0.00	0.00
11,100.0	90.00	359.76	9,650.0	1,336.7	-969.6	1,426.4	0.00	0.00	0.00
11,200.0	90.00	359.76	9,650.0	1,436.7	-970.0	1,525.9	0.00	0.00	0.00
11,300.0	90.00	359.76	9,650.0	1,536.7	-970.4	1,625.5	0.00	0.00	0.00
11,400.0	90.00	359.76	9,650.0	1,636.7	-970.9	1,725.0	0.00	0.00	0.00
11,500.0	90.00	359.76	9,650.0	1,736.7	-971.3	1,824.6	0.00	0.00	0.00
11,600.0	90.00	359.76	9,650.0	1,836.7	-971.7	1,924.1	0.00	0.00	0.00
11,700.0	90.00	359.76	9,650.0	1,936.7	-972.1	2,023.7	0.00	0.00	0.00
11,800.0	90.00	359.76	9,650.0	2,036.7	-972.5	2,123.2	0.00	0.00	0.00
11,900.0	90.00	359.76	9,650.0	2,136.7	-972.9	2,222.8	0.00	0.00	0.00
12,000.0	90.00	359.76	9,650.0	2,236.7	-973.3	2,322.3	0.00	0.00	0.00
12,100.0	90.00	359.76	9,650.0	2,336.7	-973.8	2,421.9	0.00	0.00	0.00
12,200.0	90.00	359.76	9,650.0	2,436.7	-974.2	2,521.4	0.00	0.00	0.00
12,300.0	90.00	359.76	9,650.0	2,536.7	-974.6	2,620.9	0.00	0.00	0.00
12,400.0	90.00	359.76	9,650.0	2,636.7	-975.0	2,720.5	0.00	0.00	0.00
12,500.0	90.00	359.76	9,650.0	2,736.7	-975.4	2,820.0	0.00	0.00	0.00
12,600.0	90.00	359.76	9,650.0	2,836.7	-975.8	2,919.6	0.00	0.00	0.00
12,700.0	90.00	359.76	9,650.0	2,936.7	-976.3	3,019.1	0.00	0.00	0.00
12,800.0	90.00	359.76	9,650.0	3,036.7	-976.7	3,118.7	0.00	0.00	0.00
12,900.0	90.00	359.76	9,650.0	3,136.7	-977.1	3,218.2	0.00	0.00	0.00
13,000.0	90.00	359.76	9,650.0	3,236.7	-977.5	3,317.8	0.00	0.00	0.00
13,100.0	90.00	359.76	9,650.0	3,336.7	-977.9	3,417.3	0.00	0.00	0.00
13,200.0	90.00	359.76	9,650.0	3,436.7	-978.3	3,516.9	0.00	0.00	0.00
13,300.0	90.00	359.76	9,650.0	3,536.7	-978.7	3,616.4	0.00	0.00	0.00
13,400.0	90.00	359.76	9,650.0	3,636.7	-979.2	3,716.0	0.00	0.00	0.00
13,500.0	90.00	359.76	9,650.0	3,736.7	-979.6	3,815.5	0.00	0.00	0.00
13,600.0	90.00	359.76	9,650.0	3,836.7	-980.0	3,915.0	0.00	0.00	0.00
13,700.0	90.00	359.76	9,650.0	3,936.7	-980.4	4,014.6	0.00	0.00	0.00
13,800.0	90.00	359.76	9,650.0	4,036.7	-980.8	4,114.1	0.00	0.00	0.00
13,900.0	90.00	359.76	9,650.0	4,136.7	-981.2	4,213.7	0.00	0.00	0.00
14,000.0	90.00	359.76	9,650.0	4,236.7	-981.7	4,313.2	0.00	0.00	0.00

Marathon Oil

KLX

Well Planning Report

KLX Directional Drilling

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Ripley 35-26 WXY Fed Com 5H
Company:	Marathon Oil Permian LLC	**TVD Reference:**	KB=26.5 @ 2981.5usft
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	KB=26.5 @ 2981.5usft
Site:	Sec 35, T24S, R28E	**North Reference:**	Grid
Well:	Ripley 35-26 WXY Fed Com 5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	90.00	359.76	9,650.0	4,336.7	-982.1	4,412.8	0.00	0.00	0.00
14,200.0	90.00	359.76	9,650.0	4,436.7	-982.5	4,512.3	0.00	0.00	0.00
14,300.0	90.00	359.76	9,650.0	4,536.7	-982.9	4,611.9	0.00	0.00	0.00
14,400.0	90.00	359.76	9,650.0	4,636.7	-983.3	4,711.4	0.00	0.00	0.00
14,500.0	90.00	359.76	9,650.0	4,736.7	-983.7	4,811.0	0.00	0.00	0.00
14,600.0	90.00	359.76	9,650.0	4,836.7	-984.1	4,910.5	0.00	0.00	0.00
14,700.0	90.00	359.76	9,650.0	4,936.7	-984.6	5,010.0	0.00	0.00	0.00
14,800.0	90.00	359.76	9,650.0	5,036.6	-985.0	5,109.6	0.00	0.00	0.00
14,900.0	90.00	359.76	9,650.0	5,136.6	-985.4	5,209.1	0.00	0.00	0.00
15,000.0	90.00	359.76	9,650.0	5,236.6	-985.8	5,308.7	0.00	0.00	0.00
15,100.0	90.00	359.76	9,650.0	5,336.6	-986.2	5,408.2	0.00	0.00	0.00
15,200.0	90.00	359.76	9,650.0	5,436.6	-986.6	5,507.8	0.00	0.00	0.00
15,300.0	90.00	359.76	9,650.0	5,536.6	-987.1	5,607.3	0.00	0.00	0.00
15,400.0	90.00	359.76	9,650.0	5,636.6	-987.5	5,706.9	0.00	0.00	0.00
15,500.0	90.00	359.76	9,650.0	5,736.6	-987.9	5,806.4	0.00	0.00	0.00
15,600.0	90.00	359.76	9,650.0	5,836.6	-988.3	5,906.0	0.00	0.00	0.00
15,700.0	90.00	359.76	9,650.0	5,936.6	-988.7	6,005.5	0.00	0.00	0.00
15,800.0	90.00	359.76	9,650.0	6,036.6	-989.1	6,105.0	0.00	0.00	0.00
15,900.0	90.00	359.76	9,650.0	6,136.6	-989.6	6,204.6	0.00	0.00	0.00
16,000.0	90.00	359.76	9,650.0	6,236.6	-990.0	6,304.1	0.00	0.00	0.00
16,100.0	90.00	359.76	9,650.0	6,336.6	-990.4	6,403.7	0.00	0.00	0.00
16,200.0	90.00	359.76	9,650.0	6,436.6	-990.8	6,503.2	0.00	0.00	0.00
16,300.0	90.00	359.76	9,650.0	6,536.6	-991.2	6,602.8	0.00	0.00	0.00
16,400.0	90.00	359.76	9,650.0	6,636.6	-991.6	6,702.3	0.00	0.00	0.00
16,500.0	90.00	359.76	9,650.0	6,736.6	-992.0	6,801.9	0.00	0.00	0.00
16,600.0	90.00	359.76	9,650.0	6,836.6	-992.5	6,901.4	0.00	0.00	0.00
16,700.0	90.00	359.76	9,650.0	6,936.6	-992.9	7,001.0	0.00	0.00	0.00
16,800.0	90.00	359.76	9,650.0	7,036.6	-993.3	7,100.5	0.00	0.00	0.00
16,900.0	90.00	359.76	9,650.0	7,136.6	-993.7	7,200.0	0.00	0.00	0.00
17,000.0	90.00	359.76	9,650.0	7,236.6	-994.1	7,299.6	0.00	0.00	0.00
17,100.0	90.00	359.76	9,650.0	7,336.6	-994.5	7,399.1	0.00	0.00	0.00
17,200.0	90.00	359.76	9,650.0	7,436.6	-995.0	7,498.7	0.00	0.00	0.00
17,300.0	90.00	359.76	9,650.0	7,536.6	-995.4	7,598.2	0.00	0.00	0.00
17,400.0	90.00	359.76	9,650.0	7,636.6	-995.8	7,697.8	0.00	0.00	0.00
17,500.0	90.00	359.76	9,650.0	7,736.6	-996.2	7,797.3	0.00	0.00	0.00
17,600.0	90.00	359.76	9,650.0	7,836.6	-996.6	7,896.9	0.00	0.00	0.00
17,700.0	90.00	359.76	9,650.0	7,936.6	-997.0	7,996.4	0.00	0.00	0.00
17,800.0	90.00	359.76	9,650.0	8,036.6	-997.4	8,096.0	0.00	0.00	0.00
17,900.0	90.00	359.76	9,650.0	8,136.6	-997.9	8,195.5	0.00	0.00	0.00
18,000.0	90.00	359.76	9,650.0	8,236.6	-998.3	8,295.1	0.00	0.00	0.00
18,100.0	90.00	359.76	9,650.0	8,336.6	-998.7	8,394.6	0.00	0.00	0.00
18,200.0	90.00	359.76	9,650.0	8,436.6	-999.1	8,494.1	0.00	0.00	0.00
18,300.0	90.00	359.76	9,650.0	8,536.6	-999.5	8,593.7	0.00	0.00	0.00
18,400.0	90.00	359.76	9,650.0	8,636.6	-999.9	8,693.2	0.00	0.00	0.00
18,500.0	90.00	359.76	9,650.0	8,736.6	-1,000.4	8,792.8	0.00	0.00	0.00
18,600.0	90.00	359.76	9,650.0	8,836.6	-1,000.8	8,892.3	0.00	0.00	0.00
18,700.0	90.00	359.76	9,650.0	8,936.6	-1,001.2	8,991.9	0.00	0.00	0.00
18,800.0	90.00	359.76	9,650.0	9,036.6	-1,001.6	9,091.4	0.00	0.00	0.00
18,900.0	90.00	359.76	9,650.0	9,136.6	-1,002.0	9,191.0	0.00	0.00	0.00
19,000.0	90.00	359.76	9,650.0	9,236.6	-1,002.4	9,290.5	0.00	0.00	0.00
19,100.0	90.00	359.76	9,650.0	9,336.6	-1,002.8	9,390.1	0.00	0.00	0.00
19,200.0	90.00	359.76	9,650.0	9,436.6	-1,003.3	9,489.6	0.00	0.00	0.00
19,300.0	90.00	359.76	9,650.0	9,536.6	-1,003.7	9,589.1	0.00	0.00	0.00
19,400.0	90.00	359.76	9,650.0	9,636.6	-1,004.1	9,688.7	0.00	0.00	0.00

Marathon Oil

KLX

Well Planning Report

KLX Directional Drilling

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well Ripley 35-26 WXY Fed Com 5H
Company:	Marathon Oil Permian LLC	**TVD Reference:**	KB=26.5 @ 2981.5usft
Project:	Eddy County, New Mexico (NAD 27)	**MD Reference:**	KB=26.5 @ 2981.5usft
Site:	Sec 35, T24S, R28E	**North Reference:**	Grid
Well:	Ripley 35-26 WXY Fed Com 5H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,500.0	90.00	359.76	9,650.0	9,736.6	-1,004.5	9,788.2	0.00	0.00	0.00
19,600.0	90.00	359.76	9,650.0	9,836.6	-1,004.9	9,887.8	0.00	0.00	0.00
19,700.0	90.00	359.76	9,650.0	9,936.6	-1,005.3	9,987.3	0.00	0.00	0.00
19,800.0	90.00	359.76	9,650.0	10,036.6	-1,005.8	10,086.9	0.00	0.00	0.00
TD at 19838.0									
19,838.0	90.00	359.76	9,650.0	10,074.6	-1,005.9	10,124.7	0.00	0.00	0.00

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 WXY Fed C - plan hits target center - Point	0.00	0.00	8,877.0	-269.6	-962.9	424,413.27	585,698.69	32° 9' 59.493 N	104° 3' 22.968 W
Ripley 35-26 WXY Fed C - plan misses target center by 70.6usft at 9798.5usft MD (9588.3 TVD, 44.9 N, -964.2 E) - Point	0.00	0.00	9,650.0	10.4	-964.1	424,693.26	585,697.52	32° 10' 2.264 N	104° 3' 22.973 W
Ripley 35-26 WXY Fed C - plan hits target center - Point	0.00	0.00	9,650.0	10,074.6	-1,005.9	434,757.40	585,655.71	32° 11' 41.863 N	104° 3' 23.158 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
3,000.0	3,000.0	0.0	0.0	Start Build 2.00
3,529.8	3,526.7	-13.2	-47.0	Start 4907.2 hold at 3529.8 MD
8,436.9	8,350.3	-256.4	-915.9	Start Drop -2.00
8,966.7	8,877.0	-269.6	-962.9	Start 200.0 hold at 8966.7 MD
9,166.7	9,077.0	-269.6	-962.9	Start DLS 10.00 TFO 359.76
10,066.7	9,650.0	303.4	-965.3	Start 9771.3 hold at 10066.7 MD
19,838.0	9,650.0	10,074.6	-1,005.9	TD at 19838.0

TEC-LOCK WEDGE

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

Pipe Body Data

Nominal OD:	5.500	in
Nominal Wall:	.415	in
Nominal Weight:	23.00	lb/ft
Plain End Weight:	22.56	lb/ft
Material Grade:	P110 CY	
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

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

HUNTING

Generated on Mar 12, 2019

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Technical Data Sheet

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

Mechanical Properties

Minimum Yield Strength	psi.	110,000
Maximum Yield Strength	psi.	140,000
Minimum Tensile Strength	psi.	125,000

Dimensions

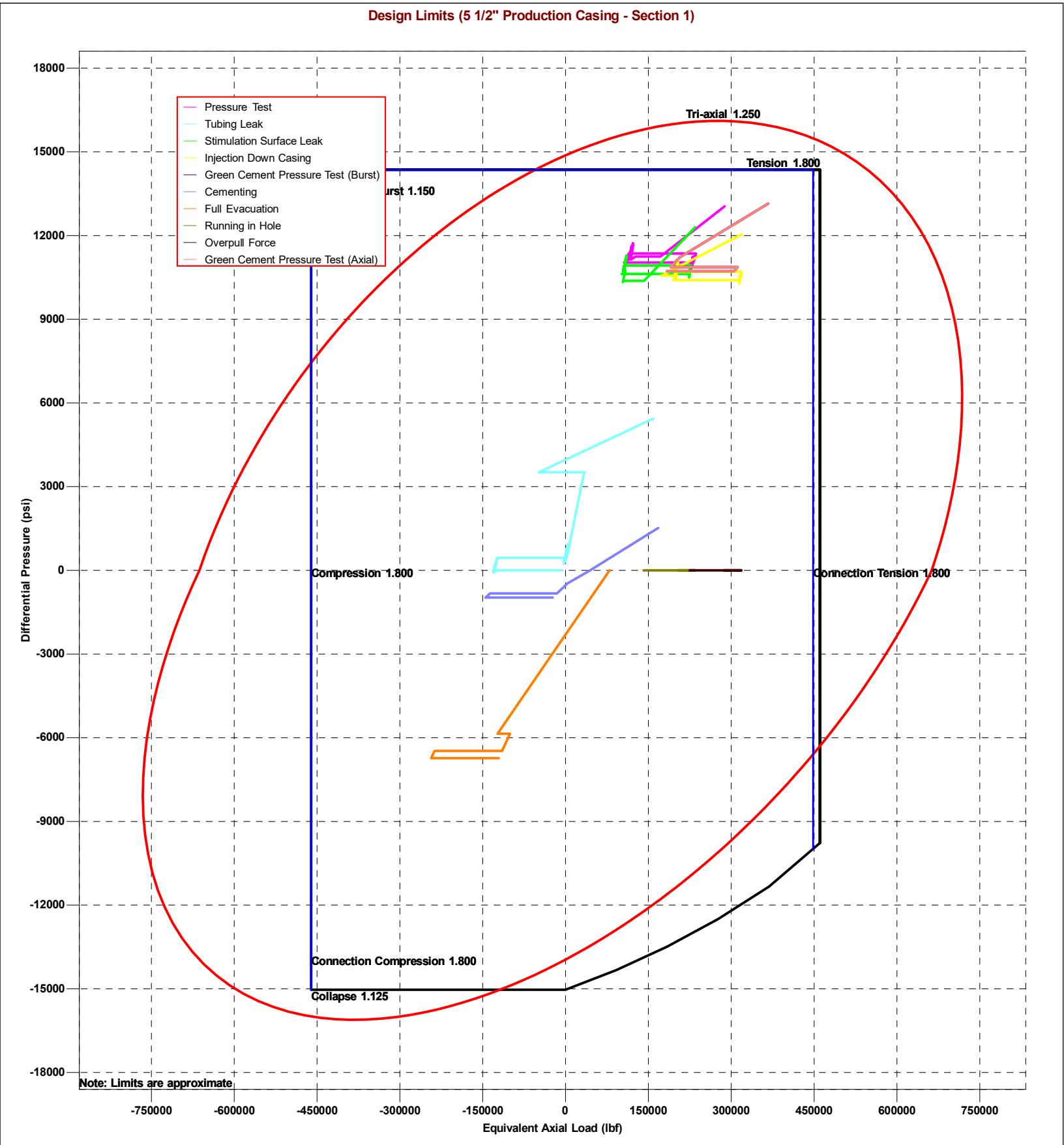
		Pipe	BTC	LTC	STC
Outside Diameter	in.	9.625	10.625	-	-
Wall Thickness	in.	0.395	-	-	-
Inside Diameter	in.	8.835	-	-	-
Standard Drift	in.	-	-	-	-
Alternate Drift	in.	8.750	-	-	-
Plain End Weight	lbs/ft.	-	-	-	-
Nominal Linear Weight	lbs/ft.	40.00	-	-	-

Performance

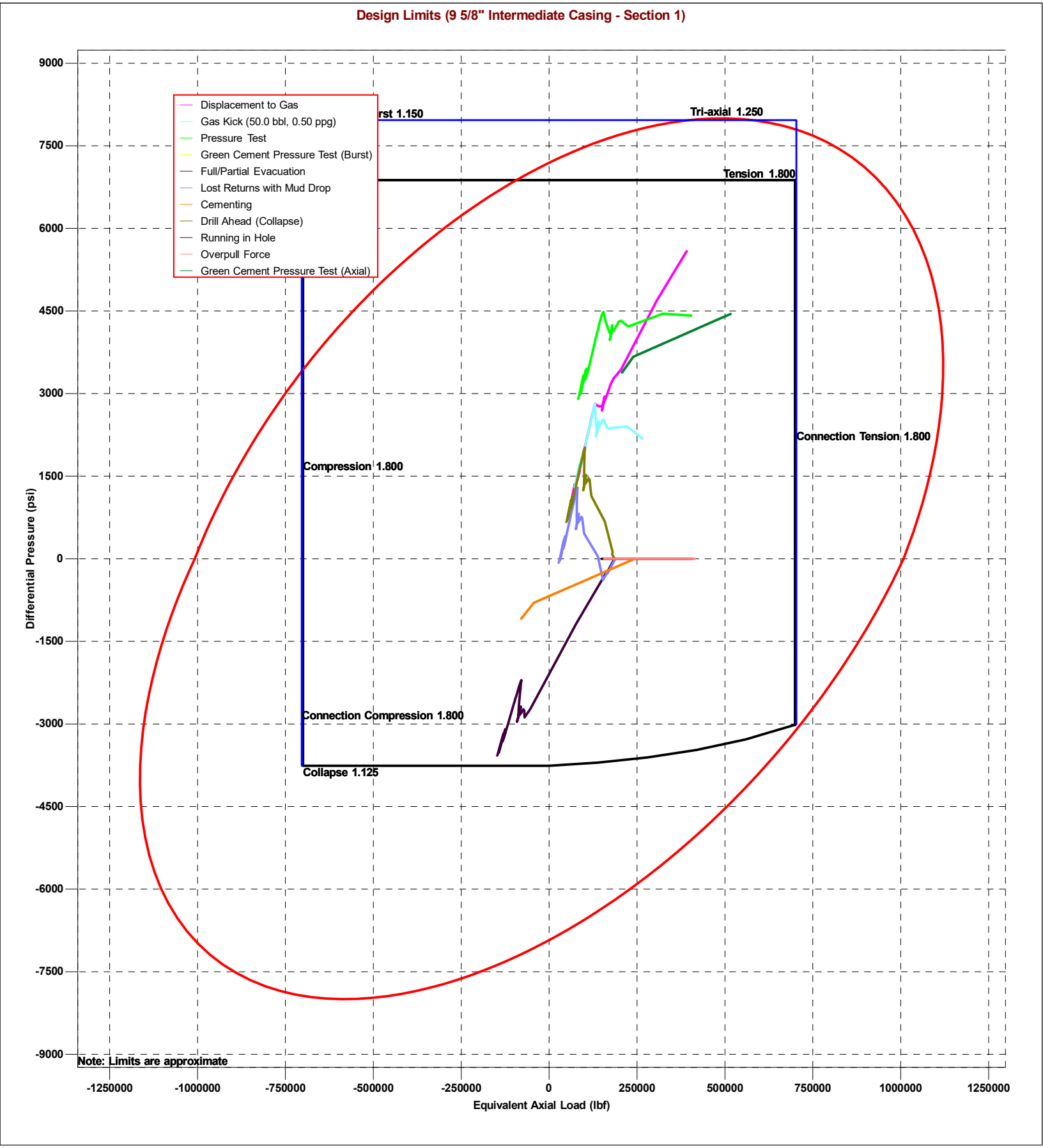
		Pipe	BTC	LTC	STC
Minimum Collapse Pressure	psi.	4,230	-	-	-
Minimum Internal Yield Pressure	psi.	7,910	7,910	-	-
Minimum Pipe Body Yield Strength	lbs.	1,260 x 1,000	-	-	-
Joint Strength	lbs.	-	1,266 x 1,000	-	-

Make-Up Torques

		Pipe	BTC	LTC	STC
Make-Up Loss	in.	-	4.81	-	-
Optimum Make-Up Torque	ft/lbs.	-	-	-	-
Maximum Operational Make-Up Torque	ft/lbs.	-	-	-	-

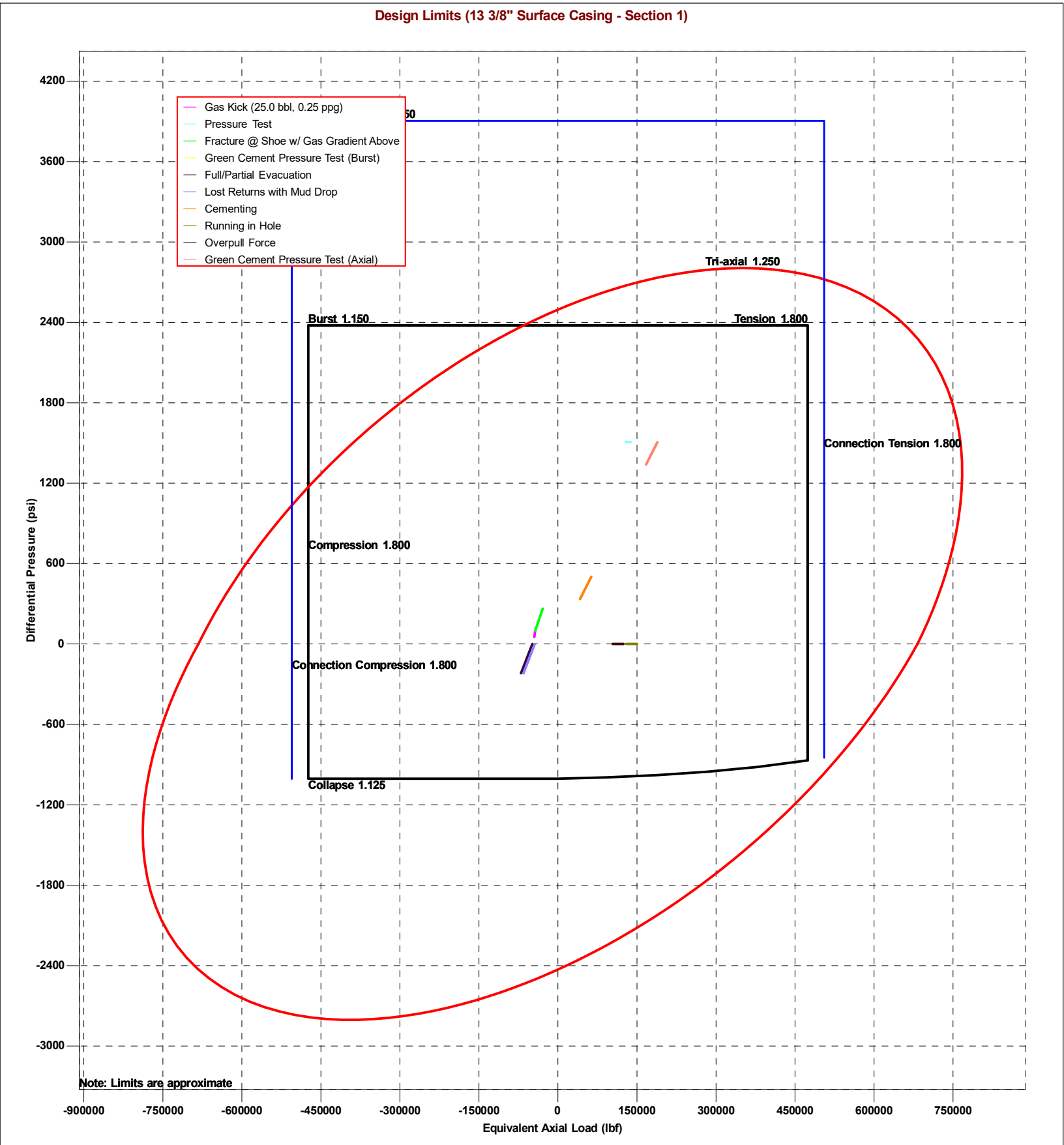

Design Limits (5 1/2" Production Casing - Section 1)
Pressure Test
Tubing Leak
Stimulation Surface Leak
Injection Down Casing
Green Cement Pressure Test (Burst)
Cementing
Full Evacuation
Running in Hole
Overpull Force
Green Cement Pressure Test (Axial)
Tri-axial 1.250
Tension 1.800
Burst 1.150
Compression 1.800
Connection Tension 1.800
Connection Compression 1.800
Collapse 1.125
Note: Limits are approximate
Differential Pressure (psi)
Equivalent Axial Load (lbf)
18000
15000
12000
9000
6000
3000
0
-3000
-6000
-9000
-12000
-15000
-18000
-750000
-600000
-450000
-300000
-150000
0
150000
300000
450000
600000
750000

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

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
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 121489

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 121489
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	New property code is 329771	10/24/2022