

Well Name: RIPLEY WC FED COM	Well Location: T24S / R28E / SEC 35 / SESE / 32.1673825 / -104.0533683	County or Parish/State: EDDY / NM
Well Number: 801H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM25953	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001547622	Well Status: Approved Application for Permit to Drill	Operator: MARATHON OIL PERMIAN LLC

Notice of Intent**Sundry ID:** 2705517**Type of Submission:** Notice of Intent**Type of Action:** APD Change**Date Sundry Submitted:** 12/01/2022**Time Sundry Submitted:** 01:58**Date proposed operation will begin:** 12/01/2022

Procedure Description: Marathon Oil Permian respectfully request approval to change the pool from the Bone Spring Willow Lake to the Purple Sage Wolfcamp (gas) pool for the Ripley WC Fed com 801H well. Please see attached C102, Directional Survey. NO change to surface or drill plan.

NOI Attachments**Procedure Description**

Ripley_WC_Fed_Com_801H__Plan_1_11_02_22_20221201135747.pdf

Ripley_WC_Fed_Com_801H__Plan_1_11_02_22_AC_Report_20221201135738.pdf

C102_RIPLEY_WC_FED_COM_801H_20221201135658.pdf

Well Name: RPLEY WCPED COM
Well Location: T24S / R28E / SEC 35 / SESE / 32.1673825 / -104.0533683
County or Parish/State: EDDY / NM
Well Number: 801H
Type of Well: CONVENTIONAL GAS WELL
Allottee or Tribe Name:
Lease Number: NMNM25953
Unit or CA Name:
Unit or CA Number:
US Well Number: 3001547622
Well Status: Approved Application for Permit to Drill
Operator: MARATHON OIL PERMIAN LLC

Operator

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

Operator Electronic Signature: TERRI STATHEM**Signed on:** DEC 01, 2022 01:57 PM**Name:** MARATHON OIL PERMIAN LLC**Title:** Regulatory Compliance Manager**Street Address:** 990 TOWN & COUNTRY BLVD**City:** HOUSTON**State:** TX**Phone:** (713) 629-6600**Email address:** TSTATHEM@MARATHONOIL.COM**Field****Representative Name:****Street Address:****City:****State:****Zip:****Phone:****Email address:****BLM Point of Contact****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:** 12/14/2022**Signature:** Chris Walls

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No. **NMNM25953**
6. If Indian, Allottee or Tribe Name***SUBMIT IN TRIPLICATE - Other instructions on page 2***

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator **MARATHON OIL PERMIAN LLC**3a. Address **990 TOWN & COUNTRY BLVD, HOUSTON, TX** 3b. Phone No. (include area code)
(000) 000-00004. Location of Well (Footage, Sec., T., R., M., or Survey Description)
SEC 35/T24S/R28E/NMP

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

8. Well Name and No. **RIPLEY WC FED COM/801H**9. API Well No. **3001547622**10. Field and Pool or Exploratory Area
PURPLE PURPLE SAGE (WOLFCAMP) GAS/WOLFCAMP11. 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	
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity	
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other	
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon		
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 performed 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 recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

Marathon Oil Permian respectfully request approval to change the pool from the Bone Spring Willow Lake to the Purple Sage Wolfcamp (gas) pool for the Ripley WC Fed com 801H well.

Please see attached C102, Directional Survey. NO change to surface or drill plan.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
TERRI STATHEM / Ph: (713) 629-6600

Title **Regulatory Compliance Manager**

Signature

Date **12/01/2022****THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

CHRISTOPHER WALLS / Ph: (575) 234-2234 / ApprovedTitle **Petroleum Engineer**Date **12/14/2022**

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)

District I

1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II

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

District III

1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

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

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

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47622	² Pool Code 98220	³ Pool Name PURPLE SAGE; Wolfcamp (gas)
⁴ Property Code	⁵ Property Name RIPLEY WC FED COM	⁶ Well Number 801H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN, LLC	⁹ Elevation 2955'

¹⁰ Surface Location

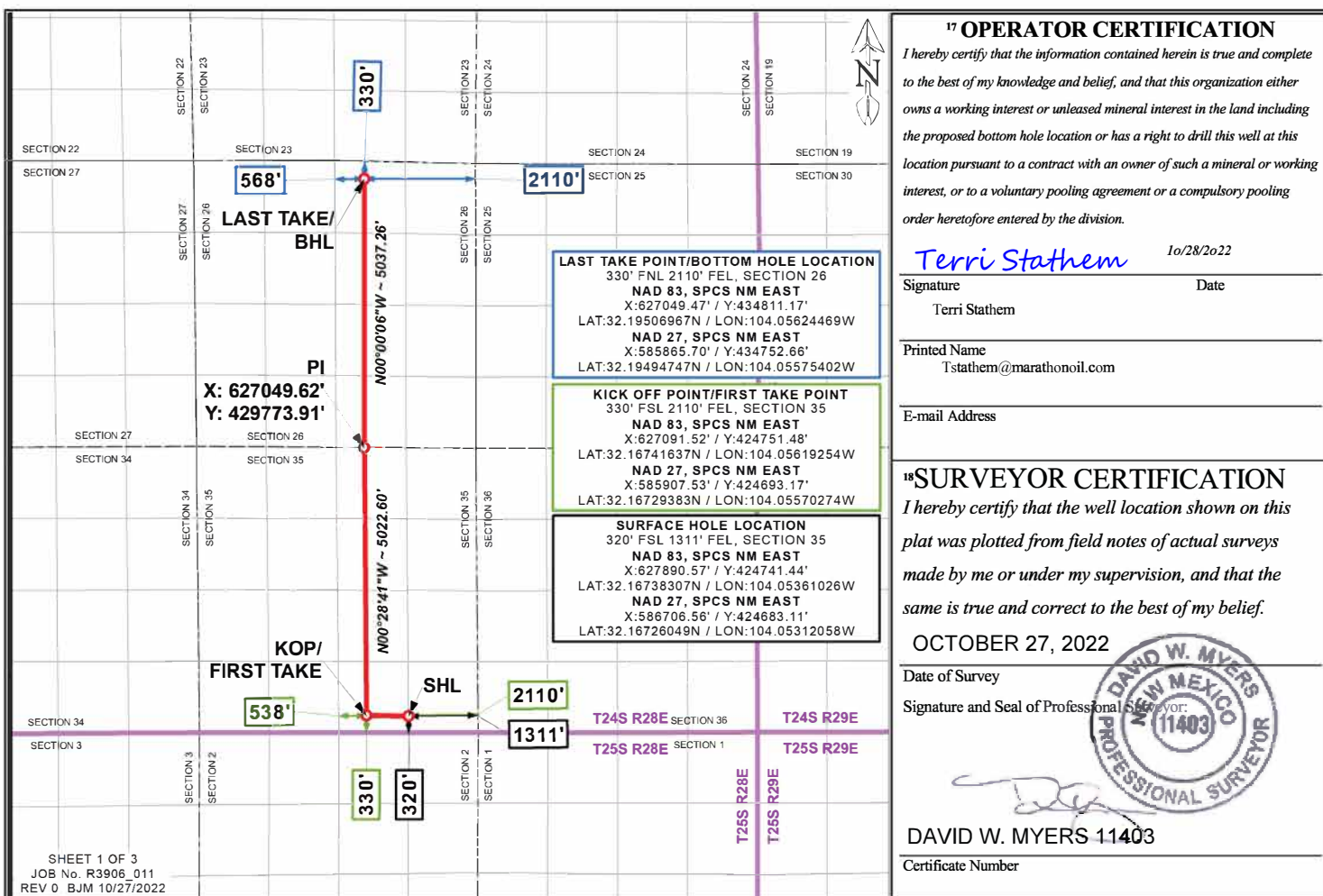
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	35	24S	28E		320	SOUTH	1311	EAST	EDDY

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	2110	EAST	EDDY

¹² Dedicated Acres 640.0	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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: 0°08'28.5600"



Project: Eddy County, NM (NAD27-NME)
Site: Ripley Fed Com Pad
Well: Ripley WC Fed Com 801H
Wellbore: OH
Design: Plan 1 11-02-22
Rig: Cactus 169



Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.50°
Magnetic Field
Strength: 47542.0nT
Dip Angle: 59.78°
Date: 12/31/2022
Model: MVHD

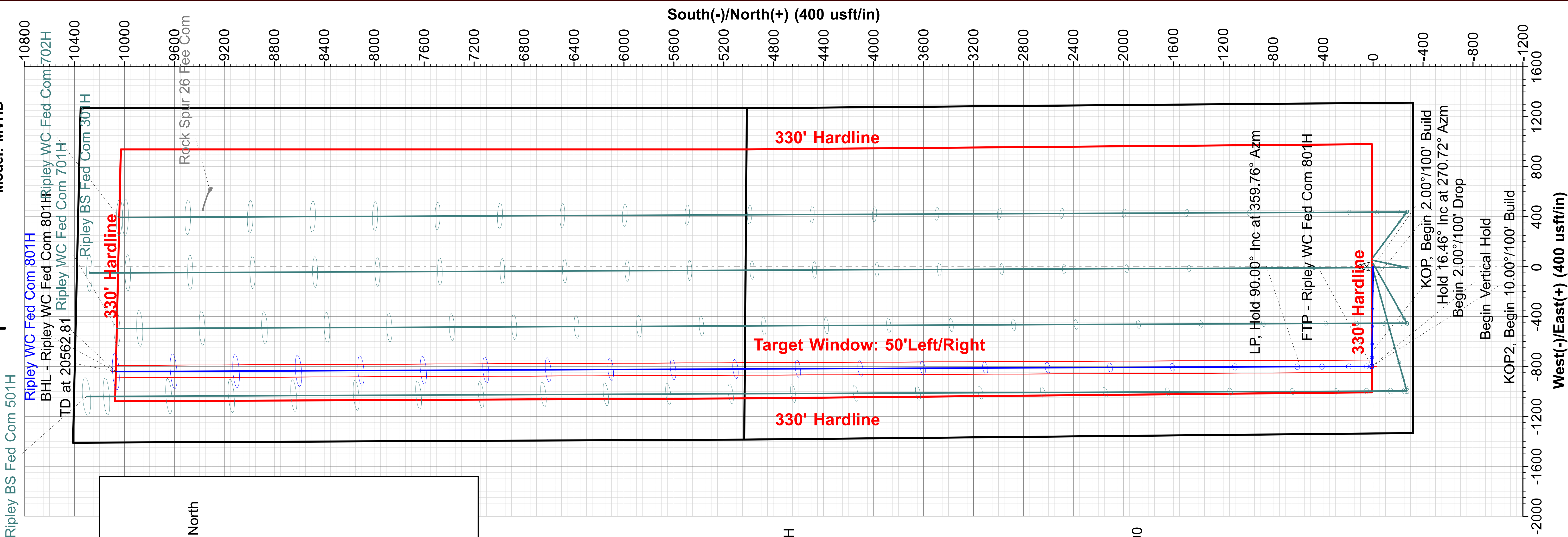
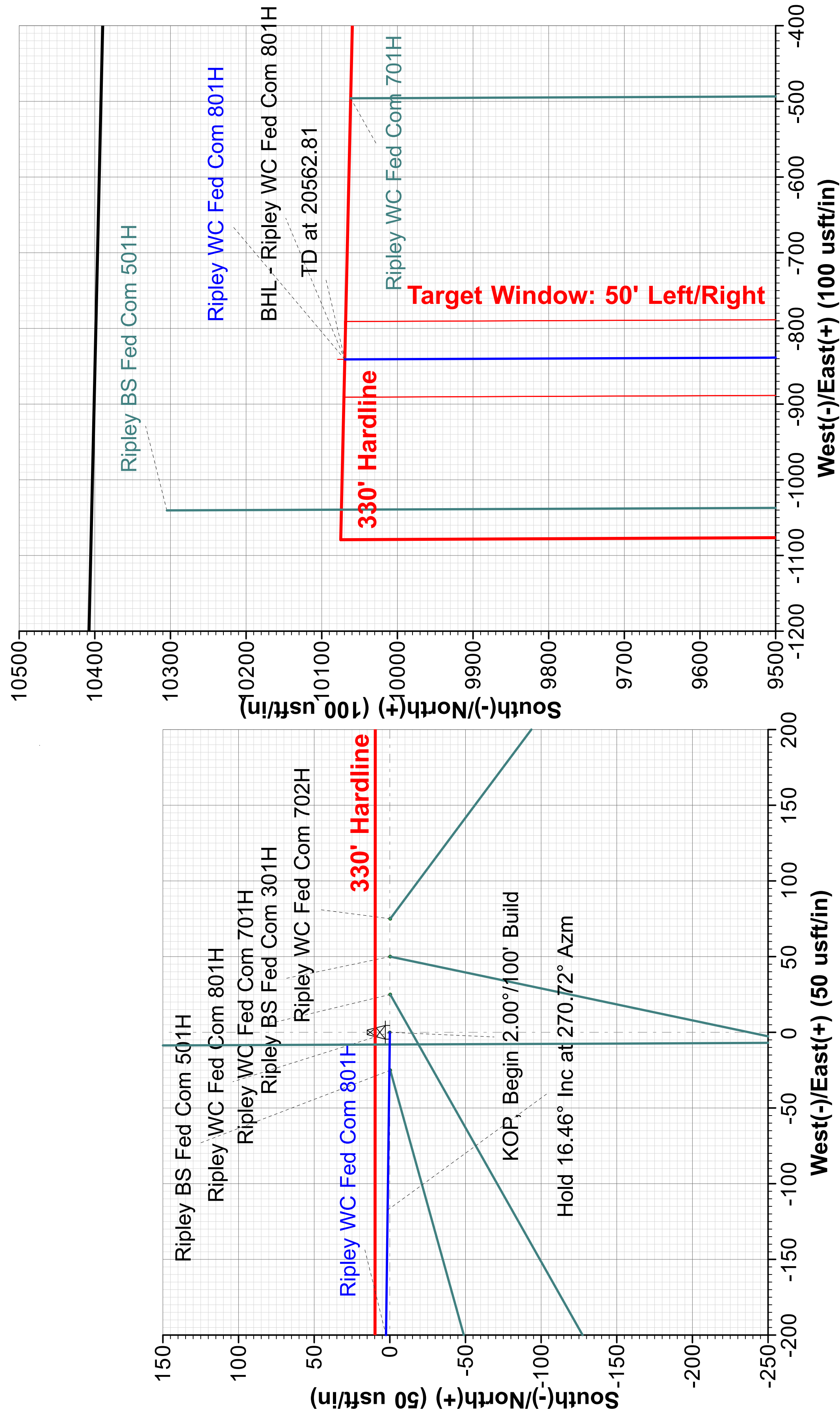
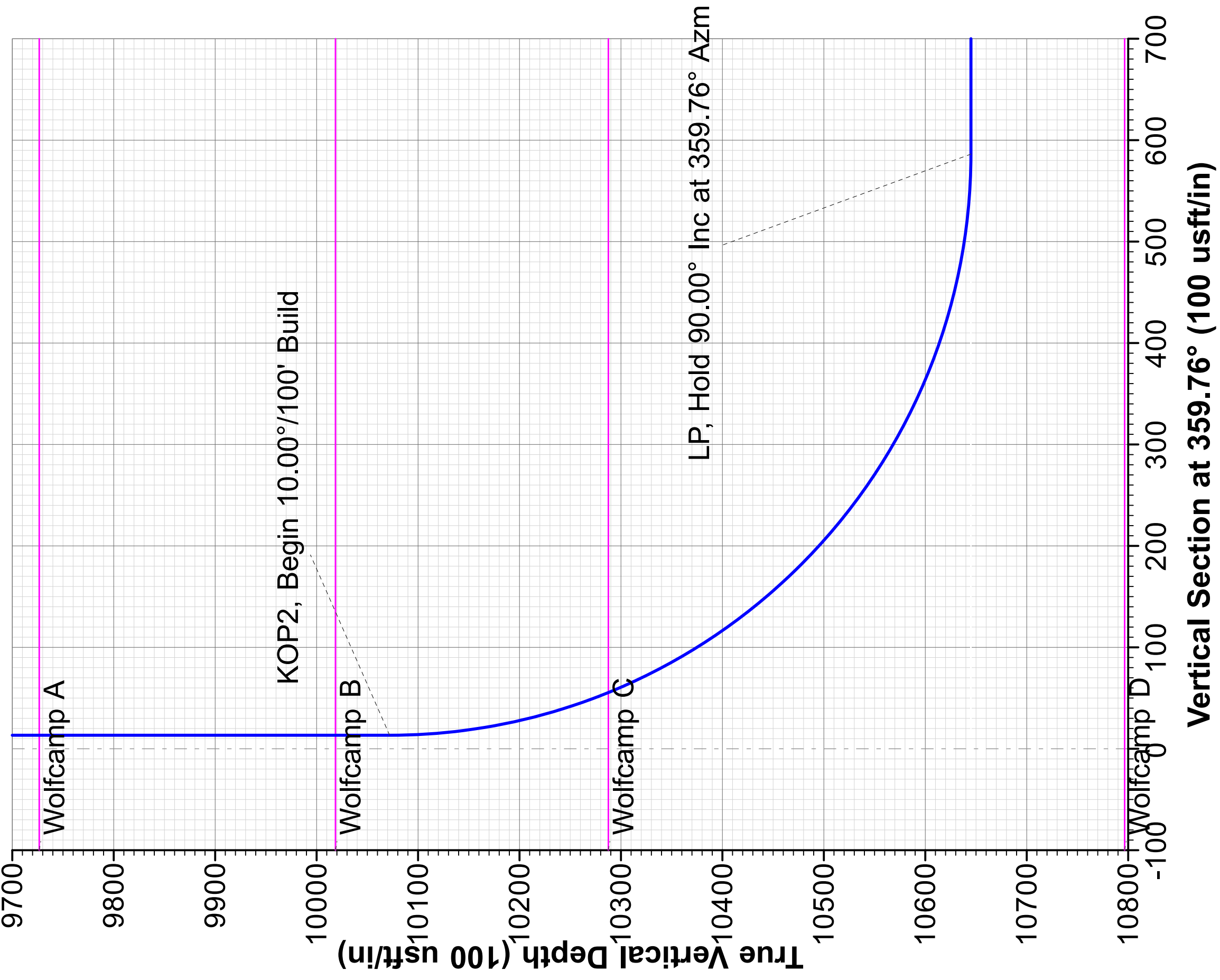
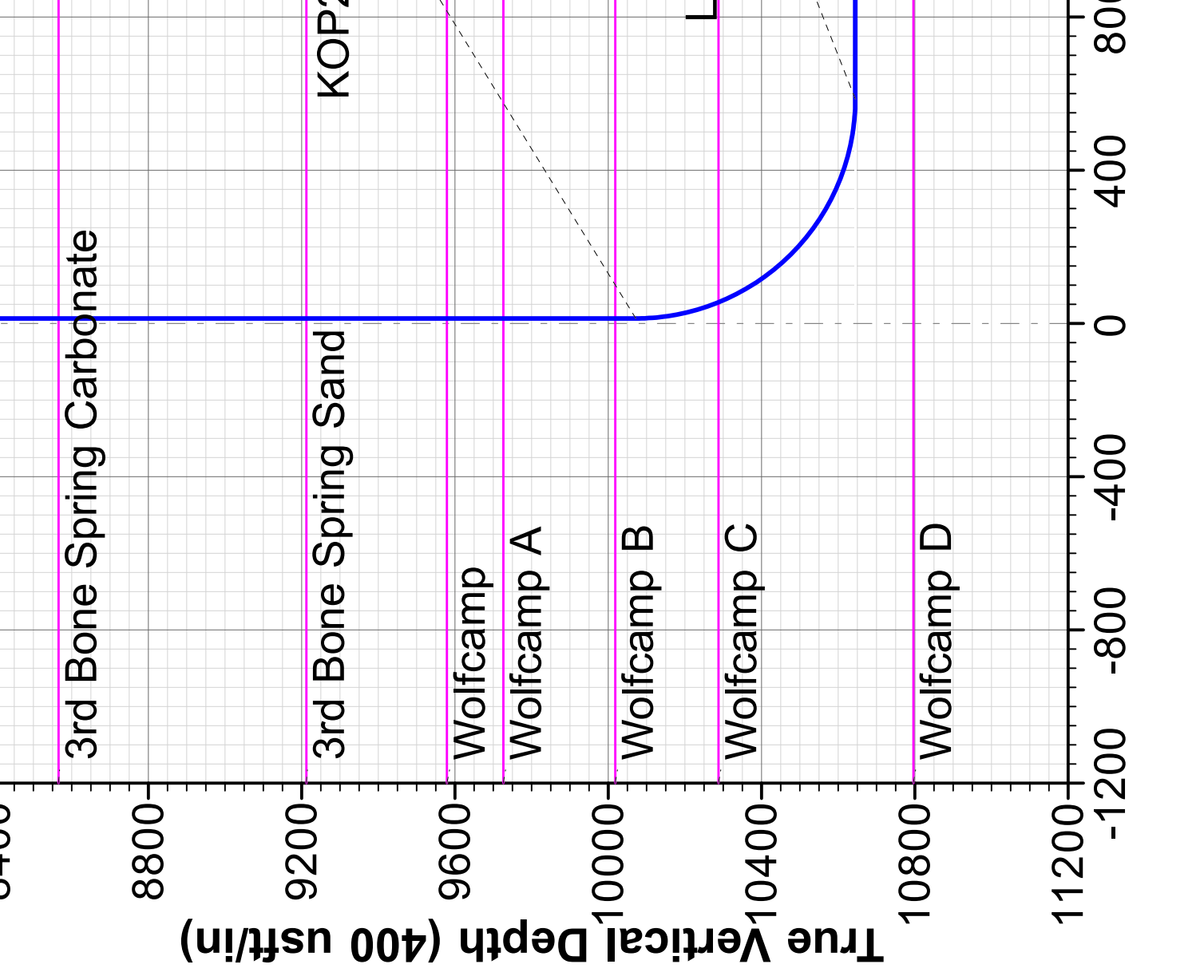
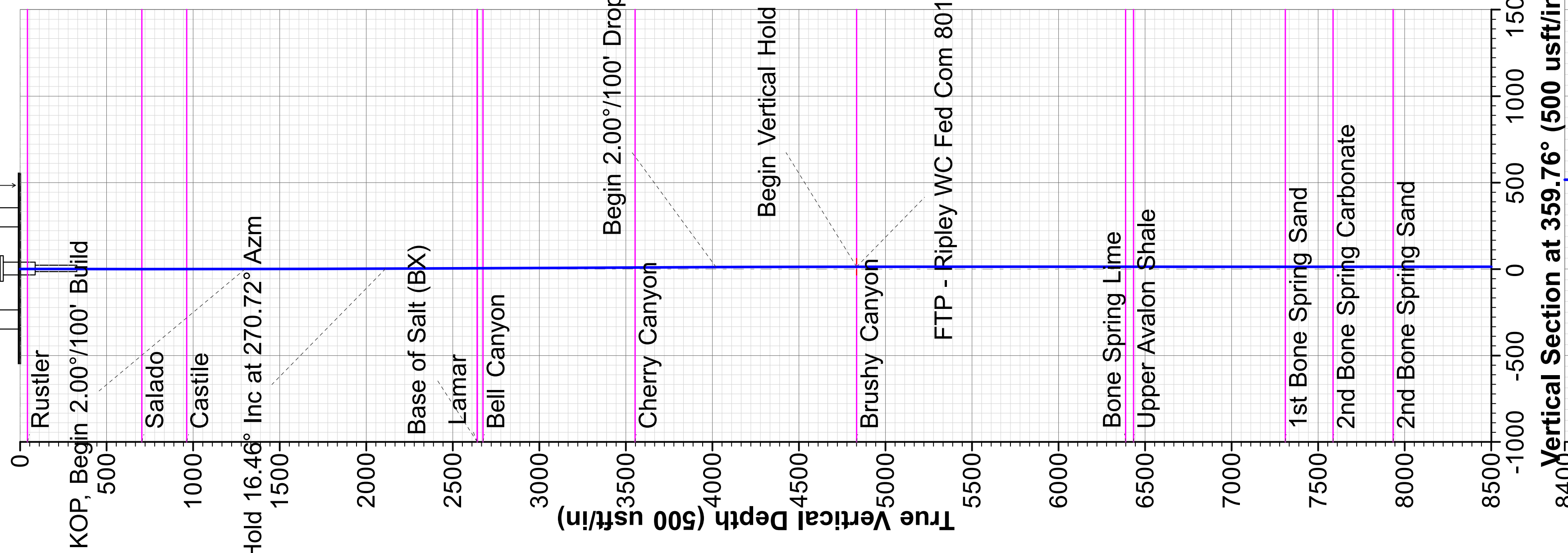
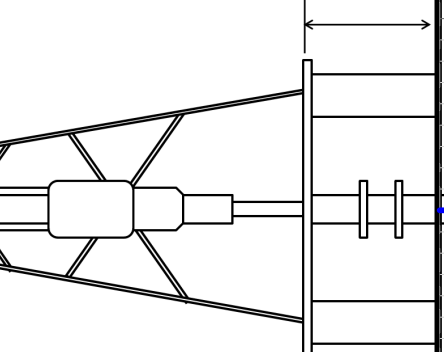
WELL DETAILS				
	+N/S	+E/W	Northing	Easting
	0.00	0.00	424683.11	586706.56
			32° 10' 2.137746 N	104° 3' 11.234114 W
			2955.00	

DESIGN TARGET DETAILS				
Name	MD	Inc	Azi	TVD
FTP - Ripley WC Fed Com 801H	10.06	-799.03	424693.17	585907.53
BHL - Ripley WC Fed Com 801H	10645.00	10069.55	-840.86	434752.66
			32° 10' 2.257798 N	104° 3' 20.529833 W
			32° 11' 41.810947 N	104° 3' 20.714510 W

SECTION DETAILS									
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00
3	2122.89	16.46	270.72	2111.62	1.48	-117.37	2.00	270.72	1.97
4	4114.98	16.46	270.72	4021.98	8.58	-681.66	0.00	0.00	11.44
5	4937.75	0.00	0.00	4833.60	10.06	-799.03	2.00	180.00	13.41
6	10176.19	0.00	0.00	10072.04	10.06	-799.03	0.00	0.00	13.41
7	11076.19	90.00	359.76	10645.00	583.01	-801.41	10.00	359.76	586.36
8	20562.81	90.00	359.76	10645.00	10069.55	-840.86	0.00	0.00	0.00

RKB @ 2978.60usft (Cactus 169)

Ground Level:



Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well Ripley WC Fed Com 801H, Grid North
Latitude: 32° 10' 2.137746 N
Longitude: 104° 3' 11.234114 W
Grid East: 586706.56
Grid North: 424683.11
Scale Factor: 1.000
Geomagnetic Model: MVHD
Sample Date: 31-Dec-22
Magnetic Declination: 6.647°
Dip Angle from Horizontal: 59.783°
Magnetic Field Strength: 47542.03607807nT
To convert a Magnetic Direction to a Grid Direction, Add 6.497°
To convert a Magnetic Direction to a True Direction, Add 6.647° East
To convert a True Direction to a Grid Direction, Subtract 0.149°



Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME)

Ripley Fed Com Pad

Ripley WC Fed Com 801H

OH

Plan: Plan 1 11-02-22

Standard Planning Report

02 November, 2022





Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-02-22		

Project	Eddy County, NM (NAD27-NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Ripley Fed Com Pad		
Site Position:		Northing:	424,682.84 usft
From:	Map	Easting:	586,756.62 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 2.133784 N
		Longitude:	104° 3' 10.651717 W
		Grid Convergence:	0.149 °

Well	Ripley WC Fed Com 801H		
Well Position	+N/-S	0.27 usft	Northing: 424,683.11 usft
	+E/-W	-50.06 usft	Easting: 586,706.56 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	Latitude: 32° 10' 2.137746 N
			Longitude: 104° 3' 11.234114 W
			Ground Level: 2,955.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	MVHD	12/31/2022	6.647
			Dip Angle (°) 59.783
			Field Strength (nT) 47,542.03607807

Design	Plan 1 11-02-22		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 359.76

Plan Survey Tool Program	Date	11/2/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	20,562.81	Plan 1 11-02-22 (OH)	MWD+HRGM
				OWSG MWD + HRGM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.000	
2,122.89	16.46	270.72	2,111.62	1.48	-117.37	2.00	2.00	0.00	270.721	
4,114.86	16.46	270.72	4,021.98	8.58	-681.66	0.00	0.00	0.00	0.000	
4,937.75	0.00	0.00	4,833.60	10.06	-799.03	2.00	-2.00	0.00	180.000	FTP - Ripley WC Fed
10,176.20	0.00	0.00	10,072.04	10.06	-799.03	0.00	0.00	0.00	0.000	
11,076.20	90.00	359.76	10,645.00	583.01	-801.41	10.00	10.00	0.00	359.762	
20,562.81	90.00	359.76	10,645.00	10,069.55	-840.86	0.00	0.00	0.00	0.000	BHL - Ripley WC Fed



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-02-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42.60	0.00	0.00	42.60	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
703.60	0.00	0.00	703.60	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
962.60	0.00	0.00	962.60	0.00	0.00	0.00	0.00	0.00	0.00
Castile									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, Begin 2.00°/100' Build									
1,400.00	2.00	270.72	1,399.98	0.02	-1.75	0.03	2.00	2.00	0.00
1,500.00	4.00	270.72	1,499.84	0.09	-6.98	0.12	2.00	2.00	0.00
1,600.00	6.00	270.72	1,599.45	0.20	-15.69	0.26	2.00	2.00	0.00
1,700.00	8.00	270.72	1,698.70	0.35	-27.88	0.47	2.00	2.00	0.00
1,800.00	10.00	270.72	1,797.47	0.55	-43.52	0.73	2.00	2.00	0.00
1,900.00	12.00	270.72	1,895.62	0.79	-62.60	1.05	2.00	2.00	0.00
2,000.00	14.00	270.72	1,993.06	1.07	-85.09	1.43	2.00	2.00	0.00
2,100.00	16.00	270.72	2,089.64	1.40	-110.97	1.86	2.00	2.00	0.00
2,122.89	16.46	270.72	2,111.62	1.48	-117.37	1.97	2.00	2.00	0.00
Hold 16.46° Inc at 270.72° Azm									
2,200.00	16.46	270.72	2,185.57	1.75	-139.21	2.34	0.00	0.00	0.00
2,300.00	16.46	270.72	2,281.47	2.11	-167.54	2.81	0.00	0.00	0.00
2,400.00	16.46	270.72	2,377.38	2.47	-195.87	3.29	0.00	0.00	0.00
2,500.00	16.46	270.72	2,473.28	2.82	-224.20	3.76	0.00	0.00	0.00
2,600.00	16.46	270.72	2,569.18	3.18	-252.52	4.24	0.00	0.00	0.00
2,675.51	16.46	270.72	2,641.60	3.45	-273.92	4.60	0.00	0.00	0.00
Base of Salt (BX) - Lamar									
2,700.00	16.46	270.72	2,665.09	3.54	-280.85	4.71	0.00	0.00	0.00
2,709.92	16.46	270.72	2,674.60	3.57	-283.66	4.76	0.00	0.00	0.00
Bell Canyon									
2,800.00	16.46	270.72	2,760.99	3.89	-309.18	5.19	0.00	0.00	0.00
2,900.00	16.46	270.72	2,856.89	4.25	-337.51	5.66	0.00	0.00	0.00
3,000.00	16.46	270.72	2,952.79	4.61	-365.84	6.14	0.00	0.00	0.00
3,100.00	16.46	270.72	3,048.70	4.96	-394.17	6.61	0.00	0.00	0.00
3,200.00	16.46	270.72	3,144.60	5.32	-422.50	7.09	0.00	0.00	0.00
3,300.00	16.46	270.72	3,240.50	5.68	-450.83	7.56	0.00	0.00	0.00
3,400.00	16.46	270.72	3,336.41	6.03	-479.15	8.04	0.00	0.00	0.00
3,500.00	16.46	270.72	3,432.31	6.39	-507.48	8.52	0.00	0.00	0.00
3,600.00	16.46	270.72	3,528.21	6.75	-535.81	8.99	0.00	0.00	0.00
3,626.47	16.46	270.72	3,553.60	6.84	-543.31	9.12	0.00	0.00	0.00
Cherry Canyon									
3,700.00	16.46	270.72	3,624.11	7.10	-564.14	9.47	0.00	0.00	0.00
3,800.00	16.46	270.72	3,720.02	7.46	-592.47	9.94	0.00	0.00	0.00
3,900.00	16.46	270.72	3,815.92	7.82	-620.80	10.42	0.00	0.00	0.00
4,000.00	16.46	270.72	3,911.82	8.17	-649.13	10.89	0.00	0.00	0.00
4,100.00	16.46	270.72	4,007.73	8.53	-677.45	11.37	0.00	0.00	0.00
4,114.86	16.46	270.72	4,021.98	8.58	-681.66	11.44	0.00	0.00	0.00
Begin 2.00°/100' Drop									
4,200.00	14.76	270.72	4,103.97	8.87	-704.57	11.82	2.00	-2.00	0.00
4,300.00	12.76	270.72	4,201.10	9.17	-728.34	12.22	2.00	-2.00	0.00
4,400.00	10.76	270.72	4,299.00	9.43	-748.71	12.56	2.00	-2.00	0.00
4,500.00	8.76	270.72	4,397.55	9.64	-765.65	12.85	2.00	-2.00	0.00
4,600.00	6.76	270.72	4,496.63	9.81	-779.14	13.07	2.00	-2.00	0.00
4,700.00	4.76	270.72	4,596.12	9.94	-789.17	13.24	2.00	-2.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-02-22		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.00	2.76	270.72	4,695.90	10.02	-795.72	13.35	2.00	-2.00	0.00
4,900.00	0.76	270.72	4,795.85	10.06	-798.78	13.40	2.00	-2.00	0.00
4,937.75	0.00	0.00	4,833.60	10.06	-799.03	13.41	2.00	-2.00	0.00
Begin Vertical Hold - Brushy Canyon									
6,491.75	0.00	0.00	6,387.60	10.06	-799.03	13.41	0.00	0.00	0.00
Bone Spring Lime									
6,537.75	0.00	0.00	6,433.60	10.06	-799.03	13.41	0.00	0.00	0.00
Upper Avalon Shale									
7,414.75	0.00	0.00	7,310.60	10.06	-799.03	13.41	0.00	0.00	0.00
1st Bone Spring Sand									
7,690.75	0.00	0.00	7,586.60	10.06	-799.03	13.41	0.00	0.00	0.00
2nd Bone Spring Carbonate									
8,037.75	0.00	0.00	7,933.60	10.06	-799.03	13.41	0.00	0.00	0.00
2nd Bone Spring Sand									
8,669.75	0.00	0.00	8,565.60	10.06	-799.03	13.41	0.00	0.00	0.00
3rd Bone Spring Carbonate									
9,316.75	0.00	0.00	9,212.60	10.06	-799.03	13.41	0.00	0.00	0.00
3rd Bone Spring Sand									
9,683.75	0.00	0.00	9,579.60	10.06	-799.03	13.41	0.00	0.00	0.00
Wolfcamp									
9,830.75	0.00	0.00	9,726.60	10.06	-799.03	13.41	0.00	0.00	0.00
Wolfcamp A									
10,122.75	0.00	0.00	10,018.60	10.06	-799.03	13.41	0.00	0.00	0.00
Wolfcamp B									
10,176.20	0.00	0.00	10,072.04	10.06	-799.03	13.41	0.00	0.00	0.00
KOP2, Begin 10.00°/100' Build									
10,200.00	2.38	359.76	10,095.84	10.55	-799.03	13.90	10.00	10.00	0.00
10,300.00	12.38	359.76	10,194.89	23.38	-799.09	26.73	10.00	10.00	0.00
10,397.19	22.10	359.76	10,287.60	52.15	-799.21	55.50	10.00	10.00	0.00
Wolfcamp C									
10,400.00	22.38	359.76	10,290.20	53.22	-799.21	56.56	10.00	10.00	0.00
10,500.00	32.38	359.76	10,378.88	99.15	-799.40	102.50	10.00	10.00	0.00
10,600.00	42.38	359.76	10,458.25	159.78	-799.65	163.13	10.00	10.00	0.00
10,700.00	52.38	359.76	10,525.87	233.27	-799.96	236.62	10.00	10.00	0.00
10,800.00	62.38	359.76	10,579.71	317.39	-800.31	320.74	10.00	10.00	0.00
10,900.00	72.38	359.76	10,618.12	409.58	-800.69	412.93	10.00	10.00	0.00
11,000.00	82.38	359.76	10,639.94	507.04	-801.10	510.39	10.00	10.00	0.00
11,076.20	90.00	359.76	10,645.00	583.01	-801.41	586.36	10.00	10.00	0.00
LP, Hold 90.00° Inc at 359.76° Azm									
11,100.00	90.00	359.76	10,645.00	606.82	-801.51	610.17	0.00	0.00	0.00
11,200.00	90.00	359.76	10,645.00	706.82	-801.93	710.17	0.00	0.00	0.00
11,300.00	90.00	359.76	10,645.00	806.82	-802.34	810.17	0.00	0.00	0.00
11,400.00	90.00	359.76	10,645.00	906.82	-802.76	910.17	0.00	0.00	0.00
11,500.00	90.00	359.76	10,645.00	1,006.81	-803.17	1,010.17	0.00	0.00	0.00
11,600.00	90.00	359.76	10,645.00	1,106.81	-803.59	1,110.17	0.00	0.00	0.00
11,700.00	90.00	359.76	10,645.00	1,206.81	-804.01	1,210.17	0.00	0.00	0.00
11,800.00	90.00	359.76	10,645.00	1,306.81	-804.42	1,310.17	0.00	0.00	0.00
11,900.00	90.00	359.76	10,645.00	1,406.81	-804.84	1,410.17	0.00	0.00	0.00
12,000.00	90.00	359.76	10,645.00	1,506.81	-805.25	1,510.17	0.00	0.00	0.00
12,100.00	90.00	359.76	10,645.00	1,606.81	-805.67	1,610.17	0.00	0.00	0.00
12,200.00	90.00	359.76	10,645.00	1,706.81	-806.09	1,710.17	0.00	0.00	0.00
12,300.00	90.00	359.76	10,645.00	1,806.81	-806.50	1,810.17	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-02-22		

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)
12,400.00	90.00	359.76	10,645.00	1,906.81	-806.92	1,910.17	0.00	0.00	0.00
12,500.00	90.00	359.76	10,645.00	2,006.81	-807.33	2,010.17	0.00	0.00	0.00
12,600.00	90.00	359.76	10,645.00	2,106.80	-807.75	2,110.17	0.00	0.00	0.00
12,700.00	90.00	359.76	10,645.00	2,206.80	-808.16	2,210.17	0.00	0.00	0.00
12,800.00	90.00	359.76	10,645.00	2,306.80	-808.58	2,310.17	0.00	0.00	0.00
12,900.00	90.00	359.76	10,645.00	2,406.80	-809.00	2,410.17	0.00	0.00	0.00
13,000.00	90.00	359.76	10,645.00	2,506.80	-809.41	2,510.17	0.00	0.00	0.00
13,100.00	90.00	359.76	10,645.00	2,606.80	-809.83	2,610.17	0.00	0.00	0.00
13,200.00	90.00	359.76	10,645.00	2,706.80	-810.24	2,710.17	0.00	0.00	0.00
13,300.00	90.00	359.76	10,645.00	2,806.80	-810.66	2,810.17	0.00	0.00	0.00
13,400.00	90.00	359.76	10,645.00	2,906.80	-811.08	2,910.17	0.00	0.00	0.00
13,500.00	90.00	359.76	10,645.00	3,006.80	-811.49	3,010.17	0.00	0.00	0.00
13,600.00	90.00	359.76	10,645.00	3,106.80	-811.91	3,110.17	0.00	0.00	0.00
13,700.00	90.00	359.76	10,645.00	3,206.80	-812.32	3,210.17	0.00	0.00	0.00
13,800.00	90.00	359.76	10,645.00	3,306.79	-812.74	3,310.17	0.00	0.00	0.00
13,900.00	90.00	359.76	10,645.00	3,406.79	-813.15	3,410.17	0.00	0.00	0.00
14,000.00	90.00	359.76	10,645.00	3,506.79	-813.57	3,510.17	0.00	0.00	0.00
14,100.00	90.00	359.76	10,645.00	3,606.79	-813.99	3,610.17	0.00	0.00	0.00
14,200.00	90.00	359.76	10,645.00	3,706.79	-814.40	3,710.17	0.00	0.00	0.00
14,300.00	90.00	359.76	10,645.00	3,806.79	-814.82	3,810.17	0.00	0.00	0.00
14,400.00	90.00	359.76	10,645.00	3,906.79	-815.23	3,910.17	0.00	0.00	0.00
14,500.00	90.00	359.76	10,645.00	4,006.79	-815.65	4,010.17	0.00	0.00	0.00
14,600.00	90.00	359.76	10,645.00	4,106.79	-816.07	4,110.17	0.00	0.00	0.00
14,700.00	90.00	359.76	10,645.00	4,206.79	-816.48	4,210.17	0.00	0.00	0.00
14,800.00	90.00	359.76	10,645.00	4,306.79	-816.90	4,310.17	0.00	0.00	0.00
14,900.00	90.00	359.76	10,645.00	4,406.78	-817.31	4,410.17	0.00	0.00	0.00
15,000.00	90.00	359.76	10,645.00	4,506.78	-817.73	4,510.17	0.00	0.00	0.00
15,100.00	90.00	359.76	10,645.00	4,606.78	-818.14	4,610.17	0.00	0.00	0.00
15,200.00	90.00	359.76	10,645.00	4,706.78	-818.56	4,710.17	0.00	0.00	0.00
15,300.00	90.00	359.76	10,645.00	4,806.78	-818.98	4,810.17	0.00	0.00	0.00
15,400.00	90.00	359.76	10,645.00	4,906.78	-819.39	4,910.17	0.00	0.00	0.00
15,500.00	90.00	359.76	10,645.00	5,006.78	-819.81	5,010.17	0.00	0.00	0.00
15,600.00	90.00	359.76	10,645.00	5,106.78	-820.22	5,110.17	0.00	0.00	0.00
15,700.00	90.00	359.76	10,645.00	5,206.78	-820.64	5,210.17	0.00	0.00	0.00
15,800.00	90.00	359.76	10,645.00	5,306.78	-821.06	5,310.17	0.00	0.00	0.00
15,900.00	90.00	359.76	10,645.00	5,406.78	-821.47	5,410.17	0.00	0.00	0.00
16,000.00	90.00	359.76	10,645.00	5,506.78	-821.89	5,510.17	0.00	0.00	0.00
16,100.00	90.00	359.76	10,645.00	5,606.77	-822.30	5,610.17	0.00	0.00	0.00
16,200.00	90.00	359.76	10,645.00	5,706.77	-822.72	5,710.17	0.00	0.00	0.00
16,300.00	90.00	359.76	10,645.00	5,806.77	-823.13	5,810.17	0.00	0.00	0.00
16,400.00	90.00	359.76	10,645.00	5,906.77	-823.55	5,910.17	0.00	0.00	0.00
16,500.00	90.00	359.76	10,645.00	6,006.77	-823.97	6,010.17	0.00	0.00	0.00
16,600.00	90.00	359.76	10,645.00	6,106.77	-824.38	6,110.17	0.00	0.00	0.00
16,700.00	90.00	359.76	10,645.00	6,206.77	-824.80	6,210.17	0.00	0.00	0.00
16,800.00	90.00	359.76	10,645.00	6,306.77	-825.21	6,310.17	0.00	0.00	0.00
16,900.00	90.00	359.76	10,645.00	6,406.77	-825.63	6,410.17	0.00	0.00	0.00
17,000.00	90.00	359.76	10,645.00	6,506.77	-826.05	6,510.17	0.00	0.00	0.00
17,100.00	90.00	359.76	10,645.00	6,606.77	-826.46	6,610.17	0.00	0.00	0.00
17,200.00	90.00	359.76	10,645.00	6,706.77	-826.88	6,710.17	0.00	0.00	0.00
17,300.00	90.00	359.76	10,645.00	6,806.76	-827.29	6,810.17	0.00	0.00	0.00
17,400.00	90.00	359.76	10,645.00	6,906.76	-827.71	6,910.17	0.00	0.00	0.00
17,500.00	90.00	359.76	10,645.00	7,006.76	-828.12	7,010.17	0.00	0.00	0.00
17,600.00	90.00	359.76	10,645.00	7,106.76	-828.54	7,110.17	0.00	0.00	0.00
17,700.00	90.00	359.76	10,645.00	7,206.76	-828.96	7,210.17	0.00	0.00	0.00



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-02-22		

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)	
17,800.00	90.00	359.76	10,645.00	7,306.76	-829.37	7,310.17	0.00	0.00	0.00	
17,900.00	90.00	359.76	10,645.00	7,406.76	-829.79	7,410.17	0.00	0.00	0.00	
18,000.00	90.00	359.76	10,645.00	7,506.76	-830.20	7,510.17	0.00	0.00	0.00	
18,100.00	90.00	359.76	10,645.00	7,606.76	-830.62	7,610.17	0.00	0.00	0.00	
18,200.00	90.00	359.76	10,645.00	7,706.76	-831.03	7,710.17	0.00	0.00	0.00	
18,300.00	90.00	359.76	10,645.00	7,806.76	-831.45	7,810.17	0.00	0.00	0.00	
18,400.00	90.00	359.76	10,645.00	7,906.75	-831.87	7,910.17	0.00	0.00	0.00	
18,500.00	90.00	359.76	10,645.00	8,006.75	-832.28	8,010.17	0.00	0.00	0.00	
18,600.00	90.00	359.76	10,645.00	8,106.75	-832.70	8,110.17	0.00	0.00	0.00	
18,700.00	90.00	359.76	10,645.00	8,206.75	-833.11	8,210.17	0.00	0.00	0.00	
18,800.00	90.00	359.76	10,645.00	8,306.75	-833.53	8,310.17	0.00	0.00	0.00	
18,900.00	90.00	359.76	10,645.00	8,406.75	-833.95	8,410.17	0.00	0.00	0.00	
19,000.00	90.00	359.76	10,645.00	8,506.75	-834.36	8,510.17	0.00	0.00	0.00	
19,100.00	90.00	359.76	10,645.00	8,606.75	-834.78	8,610.17	0.00	0.00	0.00	
19,200.00	90.00	359.76	10,645.00	8,706.75	-835.19	8,710.17	0.00	0.00	0.00	
19,300.00	90.00	359.76	10,645.00	8,806.75	-835.61	8,810.17	0.00	0.00	0.00	
19,400.00	90.00	359.76	10,645.00	8,906.75	-836.02	8,910.17	0.00	0.00	0.00	
19,500.00	90.00	359.76	10,645.00	9,006.75	-836.44	9,010.17	0.00	0.00	0.00	
19,600.00	90.00	359.76	10,645.00	9,106.74	-836.86	9,110.17	0.00	0.00	0.00	
19,700.00	90.00	359.76	10,645.00	9,206.74	-837.27	9,210.17	0.00	0.00	0.00	
19,800.00	90.00	359.76	10,645.00	9,306.74	-837.69	9,310.17	0.00	0.00	0.00	
19,900.00	90.00	359.76	10,645.00	9,406.74	-838.10	9,410.17	0.00	0.00	0.00	
20,000.00	90.00	359.76	10,645.00	9,506.74	-838.52	9,510.17	0.00	0.00	0.00	
20,100.00	90.00	359.76	10,645.00	9,606.74	-838.94	9,610.17	0.00	0.00	0.00	
20,200.00	90.00	359.76	10,645.00	9,706.74	-839.35	9,710.17	0.00	0.00	0.00	
20,300.00	90.00	359.76	10,645.00	9,806.74	-839.77	9,810.17	0.00	0.00	0.00	
20,400.00	90.00	359.76	10,645.00	9,906.74	-840.18	9,910.17	0.00	0.00	0.00	
20,500.00	90.00	359.76	10,645.00	10,006.74	-840.60	10,010.17	0.00	0.00	0.00	
20,562.81	90.00	359.76	10,645.00	10,069.55	-840.86	10,072.98	0.00	0.00	0.00	
TD at 20562.81										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP - Ripley WC Fed - plan hits target center - Point	0.00	0.00	4,833.60	10.06	-799.03	424,693.17	585,907.53	32° 10' 2.257798 N	04° 3' 20.529833 W	
BHL - Ripley WC Fed - plan hits target center - Rectangle (sides W100.00 H10,059.58 D0.00)	0.00	359.76	10,645.00	10,069.55	-840.86	434,752.66	585,865.70	32° 11' 41.810947 N	04° 3' 20.714510 W	



Phoenix Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site:	Ripley Fed Com Pad	North Reference:	Grid
Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 11-02-22		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
42.60	42.60	Rustler		0.000	359.76	
703.60	703.60	Salado		0.000	359.76	
962.60	962.60	Castile		0.000	359.76	
2,675.51	2,641.60	Base of Salt (BX)		0.000	359.76	
2,675.51	2,641.60	Lamar		0.000	359.76	
2,709.92	2,674.60	Bell Canyon		0.000	359.76	
3,626.47	3,553.60	Cherry Canyon		0.000	359.76	
4,937.75	4,833.60	Brushy Canyon		0.000	359.76	
6,491.75	6,387.60	Bone Spring Lime		0.000	359.76	
6,537.75	6,433.60	Upper Avalon Shale		0.000	359.76	
7,414.75	7,310.60	1st Bone Spring Sand		0.000	359.76	
7,690.75	7,586.60	2nd Bone Spring Carbonate		0.000	359.76	
8,037.75	7,933.60	2nd Bone Spring Sand		0.000	359.76	
8,669.75	8,565.60	3rd Bone Spring Carbonate		0.000	359.76	
9,316.75	9,212.60	3rd Bone Spring Sand		0.000	359.76	
9,683.75	9,579.60	Wolfcamp		0.000	359.76	
9,830.75	9,726.60	Wolfcamp A		0.000	359.76	
10,122.75	10,018.60	Wolfcamp B		0.000	359.76	
10,397.19	10,287.60	Wolfcamp C		0.000	359.76	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,300.00	1,300.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
2,122.89	2,111.62	1.48	-117.37	Hold 16.46° Inc at 270.72° Azm	
4,114.86	4,021.98	8.58	-681.66	Begin 2.00°/100' Drop	
4,937.75	4,833.60	10.06	-799.03	Begin Vertical Hold	
10,176.20	10,072.04	10.06	-799.03	KOP2, Begin 10.00°/100' Build	
11,076.20	10,645.00	583.01	-801.41	LP, Hold 90.00° Inc at 359.76° Azm	
20,562.81	10,645.00	10,069.55	-840.86	TD at 20562.81	



Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME)

Ripley Fed Com Pad

Ripley WC Fed Com 801H

OH

Plan 1 11-02-22

Anticollision Report

02 November, 2022





Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Reference	Plan 1 11-02-22		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.00usft or Max. SF of 4	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	11/2/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	20,562.81	Plan 1 11-02-22 (OH)	MWD+HRGM	OWSG MWD + HRGM

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Ripley Fed Com Pad						
Ripley BS Fed Com 301H - OH - Plan 1 11-02-22	1,300.01	1,300.04	50.06	41.39	5.773	CC, ES
Ripley BS Fed Com 301H - OH - Plan 1 11-02-22	1,400.00	1,400.33	51.48	42.36	5.641	SF
Ripley BS Fed Com 501H - OH - Plan 1 11-02-22	1,574.87	1,572.53	24.76	14.57	2.430	CC
Ripley BS Fed Com 501H - OH - Plan 1 11-02-22	1,700.00	1,696.51	25.10	14.22	2.306	ES
Ripley BS Fed Com 501H - OH - Plan 1 11-02-22	1,800.00	1,795.54	26.18	14.79	2.298	SF
Ripley WC Fed Com 701H - OH - Plan 1 11-02-22	1,300.00	1,300.00	25.03	16.36	2.887	CC
Ripley WC Fed Com 701H - OH - Plan 1 11-02-22	1,400.00	1,400.75	25.27	16.06	2.745	ES
Ripley WC Fed Com 701H - OH - Plan 1 11-02-22	1,500.00	1,501.46	26.17	16.47	2.699	SF
Ripley WC Fed Com 702H - OH - Plan 1 11-02-22	0.00	0.00	75.09			
Ripley WC Fed Com 702H - OH - Plan 1 11-02-22	1,300.00	1,300.00	75.09	66.42	8.659	CC, ES
Ripley Fed Com Pad - Offsets						
Rock Spur 26 Fee Com - OH - OH						Out of range

Offset Design:	Ripley Fed Com Pad - Ripley BS Fed Com 301H - OH - Plan 1 11-02-22												Offset Site Error:	0.00 usft
Survey Program:	0-MWD+HRGM												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.03	0.00	0.00	0.00	90.309	-0.27	50.06	50.06					
100.00	100.00	100.03	100.00	0.53	0.53	90.309	-0.27	50.06	50.06	48.99	1.07	46.960		
200.00	200.00	200.03	200.00	1.32	1.32	90.309	-0.27	50.06	50.06	47.41	2.65	18.900		
300.00	300.00	300.03	300.00	1.80	1.80	90.309	-0.27	50.06	50.06	46.46	3.60	13.912		
400.00	400.00	400.03	400.00	2.18	2.18	90.309	-0.27	50.06	50.06	45.71	4.35	11.505		
500.00	500.00	500.03	500.00	2.50	2.50	90.309	-0.27	50.06	50.06	45.06	5.00	10.018		
600.00	600.00	600.03	600.00	2.79	2.79	90.309	-0.27	50.06	50.06	44.49	5.57	8.982		
700.00	700.00	700.03	700.00	3.05	3.05	90.309	-0.27	50.06	50.06	43.96	6.10	8.207		
800.00	800.00	800.03	800.00	3.29	3.29	90.309	-0.27	50.06	50.06	43.47	6.59	7.598		
900.00	900.00	900.03	900.00	3.52	3.52	90.309	-0.27	50.06	50.06	43.01	7.05	7.104		
1,000.00	1,000.00	1,000.03	1,000.00	3.74	3.74	90.309	-0.27	50.06	50.06	42.58	7.48	6.692		
1,100.00	1,100.00	1,100.03	1,100.00	3.95	3.95	90.309	-0.27	50.06	50.06	42.17	7.89	6.341		
1,200.00	1,200.00	1,200.03	1,200.00	4.15	4.15	90.309	-0.27	50.06	50.06	41.77	8.29	6.038		
1,300.00	1,300.00	1,300.03	1,300.00	4.34	4.34	90.309	-0.27	50.06	50.06	41.39	8.67	5.773		
1,300.01	1,300.01	1,300.04	1,300.01	4.34	4.34	90.309	-0.27	50.06	50.06	41.39	8.67	5.773	CC, ES	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 301H - OH - Plan 1 11-02-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
1,400.00	1,399.98	1,400.33	1,400.28	4.62	4.61	-178.482	-1.99	49.70	51.48	42.36	9.13	5.641 SF	
1,500.00	1,499.84	1,500.34	1,500.15	4.90	4.88	-173.319	-7.12	48.61	56.06	46.51	9.55	5.873	
1,600.00	1,599.45	1,599.80	1,599.27	5.20	4.98	-166.844	-15.18	46.91	64.47	54.59	9.88	6.528	
1,700.00	1,698.70	1,698.88	1,697.97	5.51	5.19	-162.349	-23.64	45.13	76.85	66.54	10.31	7.454	
1,800.00	1,797.47	1,797.53	1,796.24	5.85	5.41	-159.826	-32.05	43.36	92.80	82.04	10.76	8.623	
1,900.00	1,895.62	1,895.64	1,893.98	6.20	5.65	-158.653	-40.42	41.59	112.05	100.82	11.23	9.975	
2,000.00	1,993.06	1,993.08	1,991.05	6.57	5.90	-158.324	-48.73	39.84	134.50	122.78	11.73	11.468	
2,100.00	2,089.64	2,089.74	2,087.34	6.95	6.17	-158.492	-56.98	38.10	160.11	147.86	12.25	13.075	
2,122.89	2,111.62	2,111.74	2,109.26	7.01	6.23	-158.575	-58.85	37.70	166.41	154.07	12.34	13.487	
2,200.00	2,185.57	2,185.78	2,183.01	7.25	6.44	-158.988	-65.17	36.37	187.92	175.23	12.69	14.813	
2,300.00	2,281.47	2,281.80	2,278.66	7.60	6.72	-159.401	-73.36	34.64	215.83	202.65	13.18	16.375	
2,400.00	2,377.38	2,377.81	2,374.32	7.97	7.01	-159.719	-81.55	32.92	243.74	230.05	13.69	17.804	
2,500.00	2,473.28	2,473.83	2,469.97	8.36	7.31	-159.972	-89.74	31.19	271.66	257.45	14.22	19.111	
2,600.00	2,569.18	2,569.85	2,565.62	8.75	7.61	-160.178	-97.93	29.46	299.58	284.83	14.75	20.307	
2,700.00	2,665.09	2,665.87	2,661.27	9.16	7.92	-160.348	-106.12	27.73	327.51	312.21	15.30	21.405	
2,800.00	2,760.99	2,761.88	2,756.92	9.58	8.24	-160.492	-114.31	26.01	355.44	339.58	15.86	22.413	
2,900.00	2,856.89	2,857.90	2,852.57	10.00	8.56	-160.615	-122.50	24.28	383.37	366.95	16.43	23.340	
3,000.00	2,952.79	2,953.92	2,948.22	10.44	8.88	-160.721	-130.69	22.55	411.31	394.31	17.00	24.195	
3,100.00	3,048.70	3,049.93	3,043.88	10.88	9.21	-160.814	-138.88	20.82	439.24	421.66	17.58	24.985	
3,200.00	3,144.60	3,145.95	3,139.53	11.32	9.54	-160.895	-147.07	19.10	467.17	449.01	18.17	25.716	
3,300.00	3,240.50	3,241.97	3,235.18	11.77	9.88	-160.968	-155.26	17.37	495.11	476.35	18.76	26.394	
3,400.00	3,336.41	3,337.98	3,330.83	12.22	10.21	-161.032	-163.45	15.64	523.05	503.69	19.35	27.024	
3,500.00	3,432.31	3,434.00	3,426.48	12.68	10.55	-161.090	-171.64	13.91	550.98	531.03	19.96	27.611	
3,600.00	3,528.21	3,530.02	3,522.13	13.14	10.89	-161.143	-179.83	12.19	578.92	558.36	20.56	28.158	
3,700.00	3,624.11	3,626.04	3,617.78	13.61	11.24	-161.191	-188.02	10.46	606.86	585.69	21.17	28.670	
3,800.00	3,720.02	3,722.05	3,713.44	14.08	11.58	-161.234	-196.21	8.73	634.80	613.02	21.78	29.148	
3,900.00	3,815.92	3,818.07	3,809.09	14.55	11.93	-161.274	-204.40	7.00	662.73	640.34	22.39	29.597	
4,000.00	3,911.82	3,914.09	3,904.74	15.02	12.28	-161.310	-212.59	5.28	690.67	667.66	23.01	30.019	
4,100.00	4,007.73	4,010.10	4,000.39	15.49	12.63	-161.344	-220.78	3.55	718.61	694.98	23.63	30.416	
4,114.86	4,021.98	4,024.37	4,014.61	15.56	12.68	-161.349	-222.00	3.29	722.76	699.05	23.71	30.480	
4,200.00	4,103.97	4,106.44	4,096.37	15.97	12.98	-161.493	-229.00	1.82	745.40	721.15	24.24	30.747	
4,300.00	4,201.10	4,203.60	4,193.15	16.46	13.33	-161.562	-237.28	0.07	769.01	744.14	24.87	30.917	
4,400.00	4,299.00	4,301.47	4,290.65	16.94	13.70	-161.531	-245.63	-1.69	789.40	763.92	25.49	30.970	
4,500.00	4,397.55	4,399.93	4,388.74	17.40	14.06	-161.406	-254.03	-3.47	806.55	780.47	26.09	30.917	
4,600.00	4,496.63	4,500.17	4,488.61	17.84	14.40	-161.202	-262.37	-5.22	820.43	793.80	26.63	30.811	
4,700.00	4,596.12	4,603.54	4,591.80	18.26	14.78	-161.094	-268.14	-6.44	830.67	803.48	27.18	30.557	
4,800.00	4,695.90	4,707.35	4,695.59	18.64	15.08	-161.140	-270.27	-6.89	837.14	809.47	27.67	30.250	
4,900.00	4,795.85	4,807.61	4,795.85	18.96	15.11	-161.226	-270.28	-6.89	840.05	812.03	28.02	29.981	
4,937.75	4,833.60	4,845.36	4,833.60	19.00	15.13	109.489	-270.28	-6.89	840.28	812.19	28.09	29.918	
5,000.00	4,895.85	4,907.61	4,895.85	19.02	15.15	109.489	-270.28	-6.89	840.28	812.14	28.14	29.861	
5,100.00	4,995.85	5,007.61	4,995.85	19.06	15.19	109.489	-270.28	-6.89	840.28	812.03	28.25	29.749	
5,200.00	5,095.85	5,107.61	5,095.85	19.11	15.23	109.489	-270.28	-6.89	840.28	811.93	28.35	29.637	
5,300.00	5,195.85	5,207.61	5,195.85	19.15	15.27	109.489	-270.28	-6.89	840.28	811.82	28.46	29.525	
5,400.00	5,295.85	5,307.61	5,295.85	19.20	15.31	109.489	-270.28	-6.89	840.28	811.71	28.57	29.414	
5,500.00	5,395.85	5,407.61	5,395.85	19.24	15.36	109.489	-270.28	-6.89	840.28	811.60	28.68	29.303	
5,600.00	5,495.85	5,507.61	5,495.85	19.28	15.40	109.489	-270.28	-6.89	840.28	811.50	28.78	29.192	
5,700.00	5,595.85	5,607.61	5,595.85	19.33	15.44	109.489	-270.28	-6.89	840.28	811.39	28.89	29.081	
5,800.00	5,695.85	5,707.61	5,695.85	19.37	15.48	109.489	-270.28	-6.89	840.28	811.28	29.00	28.971	
5,900.00	5,795.85	5,807.61	5,795.85	19.42	15.53	109.489	-270.28	-6.89	840.28	811.17	29.11	28.862	
6,000.00	5,895.85	5,907.61	5,895.85	19.46	15.57	109.489	-270.28	-6.89	840.28	811.06	29.22	28.752	
6,100.00	5,995.85	6,007.61	5,995.85	19.51	15.61	109.489	-270.28	-6.89	840.28	810.94	29.34	28.643	
6,200.00	6,095.85	6,107.61	6,095.85	19.56	15.66	109.489	-270.28	-6.89	840.28	810.83	29.45	28.534	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix

Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 301H - OH - Plan 1 11-02-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
6,300.00	6,195.85	6,207.61	6,195.85	19.60	15.70	109.489	-270.28	-6.89	840.28	810.72	29.56	28.426	
6,400.00	6,295.85	6,307.61	6,295.85	19.65	15.75	109.489	-270.28	-6.89	840.28	810.61	29.67	28.318	
6,500.00	6,395.85	6,407.61	6,395.85	19.70	15.79	109.489	-270.28	-6.89	840.28	810.49	29.79	28.211	
6,600.00	6,495.85	6,507.61	6,495.85	19.74	15.84	109.489	-270.28	-6.89	840.28	810.38	29.90	28.103	
6,700.00	6,595.85	6,607.61	6,595.85	19.79	15.88	109.489	-270.28	-6.89	840.28	810.27	30.01	27.997	
6,800.00	6,695.85	6,707.61	6,695.85	19.84	15.93	109.489	-270.28	-6.89	840.28	810.15	30.13	27.890	
6,900.00	6,795.85	6,807.61	6,795.85	19.89	15.97	109.489	-270.28	-6.89	840.28	810.04	30.24	27.784	
7,000.00	6,895.85	6,907.61	6,895.85	19.93	16.02	109.489	-270.28	-6.89	840.28	809.92	30.36	27.679	
7,100.00	6,995.85	7,007.61	6,995.85	19.98	16.06	109.489	-270.28	-6.89	840.28	809.81	30.47	27.577	
7,200.00	7,095.85	7,111.20	7,107.64	20.03	15.83	108.185	-250.12	-6.98	836.78	806.04	30.74	27.218	
7,300.00	7,195.85	7,345.98	7,318.26	20.08	15.45	103.818	-184.69	-7.25	824.52	793.61	30.91	26.679	
7,400.00	7,295.85	7,468.20	7,414.61	20.13	15.18	98.616	-109.87	-7.56	809.27	778.20	31.07	26.046	
7,500.00	7,395.85	7,555.08	7,472.36	20.18	15.01	93.987	-45.08	-7.83	796.80	765.60	31.20	25.540	
7,600.00	7,495.85	7,617.36	7,507.40	20.22	14.91	90.267	6.37	-8.04	791.08	759.88	31.19	25.359	
7,615.71	7,511.56	7,625.49	7,511.56	20.23	14.90	89.761	13.36	-8.07	790.96	759.78	31.18	25.369	
7,700.00	7,595.85	7,663.20	7,529.52	20.27	14.85	87.361	46.51	-8.21	794.43	763.42	31.02	25.614	
7,800.00	7,695.85	7,700.00	7,544.90	20.32	14.81	84.950	79.93	-8.35	807.99	777.29	30.69	26.326	
7,900.00	7,795.85	7,724.98	7,554.11	20.37	14.79	83.284	103.16	-8.45	831.94	801.70	30.25	27.506	
8,000.00	7,895.85	7,750.00	7,562.30	20.42	14.77	81.600	126.79	-8.55	865.88	836.09	29.79	29.067	
8,100.00	7,995.85	7,764.11	7,566.47	20.47	14.76	80.645	140.27	-8.60	908.90	879.58	29.32	31.004	
8,200.00	8,095.85	7,778.65	7,570.42	20.52	14.75	79.660	154.27	-8.66	959.98	931.05	28.92	33.190	



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 501H - OH - Plan 1 11-02-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-90.641	-0.28	-25.03	25.03				
100.00	100.00	100.00	100.00	0.53	0.53	-90.641	-0.28	-25.03	25.03	23.97	1.07	23.480	
200.00	200.00	200.00	200.00	1.32	1.32	-90.641	-0.28	-25.03	25.03	22.38	2.65	9.450	
300.00	300.00	300.00	300.00	1.80	1.80	-90.641	-0.28	-25.03	25.03	21.43	3.60	6.956	
400.00	400.00	400.00	400.00	2.18	2.18	-90.641	-0.28	-25.03	25.03	20.68	4.35	5.753	
500.00	500.00	500.00	500.00	2.50	2.50	-90.641	-0.28	-25.03	25.03	20.03	5.00	5.009	
600.00	600.00	600.00	600.00	2.79	2.79	-90.641	-0.28	-25.03	25.03	19.46	5.57	4.491	
700.00	700.00	700.00	700.00	3.05	3.05	-90.641	-0.28	-25.03	25.03	18.93	6.10	4.104	
800.00	800.00	800.00	800.00	3.29	3.29	-90.641	-0.28	-25.03	25.03	18.44	6.59	3.799	
900.00	900.00	900.00	900.00	3.52	3.52	-90.641	-0.28	-25.03	25.03	17.98	7.05	3.552	
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	-90.641	-0.28	-25.03	25.03	17.55	7.48	3.346	
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	-90.641	-0.28	-25.03	25.03	17.14	7.89	3.171	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	-90.641	-0.28	-25.03	25.03	16.74	8.29	3.019	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	-90.641	-0.28	-25.03	25.03	16.36	8.67	2.887	
1,400.00	1,399.98	1,399.16	1,399.14	4.62	4.62	-2.468	-0.74	-26.68	24.96	15.73	9.23	2.705	
1,500.00	1,499.84	1,498.31	1,498.15	4.90	4.89	-5.812	-2.12	-31.64	24.82	15.05	9.77	2.540	
1,574.87	1,574.45	1,572.53	1,572.11	5.13	5.11	-9.806	-3.74	-37.51	24.76	14.57	10.19	2.430 CC	
1,600.00	1,599.45	1,597.43	1,596.89	5.20	5.18	-11.430	-4.41	-39.89	24.77	14.44	10.33	2.398	
1,700.00	1,698.70	1,696.51	1,695.24	5.51	5.49	-19.204	-7.61	-51.43	25.10	14.22	10.88	2.306 ES	
1,800.00	1,797.47	1,795.54	1,793.07	5.85	5.81	-28.649	-11.72	-66.22	26.18	14.79	11.39	2.298 SF	
1,900.00	1,895.62	1,894.50	1,890.24	6.20	6.16	-38.838	-16.72	-84.25	28.36	16.56	11.80	2.403	
2,000.00	1,993.06	1,993.39	1,986.64	6.57	6.52	-48.670	-22.62	-105.49	31.91	19.78	12.13	2.630	
2,100.00	2,089.64	2,092.19	2,082.13	6.95	6.90	-57.333	-29.39	-129.90	36.92	24.48	12.44	2.969	
2,122.89	2,111.62	2,114.93	2,104.00	7.01	6.98	-59.161	-31.07	-135.93	38.23	25.75	12.48	3.063	
2,200.00	2,185.57	2,191.80	2,177.89	7.25	7.23	-64.882	-36.73	-156.34	42.82	30.12	12.71	3.370	
2,300.00	2,281.47	2,291.48	2,273.71	7.60	7.58	-70.644	-44.08	-182.82	49.27	36.16	13.11	3.758	
2,400.00	2,377.38	2,391.17	2,369.53	7.97	7.94	-75.041	-51.43	-209.29	56.10	42.51	13.59	4.128	
2,500.00	2,473.28	2,490.85	2,465.36	8.36	8.32	-78.470	-58.78	-235.77	63.18	49.05	14.13	4.472	
2,600.00	2,569.18	2,590.54	2,561.18	8.75	8.71	-81.201	-66.13	-262.24	70.45	55.74	14.71	4.789	
2,700.00	2,665.09	2,690.23	2,657.01	9.16	9.11	-83.418	-73.48	-288.71	77.84	62.51	15.33	5.078	
2,800.00	2,760.99	2,789.91	2,752.83	9.58	9.52	-85.248	-80.83	-315.19	85.33	69.35	15.98	5.341	
2,900.00	2,856.89	2,889.60	2,848.65	10.00	9.94	-86.782	-88.18	-341.66	92.89	76.24	16.65	5.580	
3,000.00	2,952.79	2,989.28	2,944.48	10.44	10.37	-88.084	-95.53	-368.14	100.51	83.17	17.34	5.796	
3,100.00	3,048.70	3,088.97	3,040.30	10.88	10.80	-89.202	-102.88	-394.61	108.17	90.12	18.05	5.993	
3,200.00	3,144.60	3,188.65	3,136.13	11.32	11.24	-90.173	-110.23	-421.09	115.87	97.10	18.77	6.172	
3,300.00	3,240.50	3,288.34	3,231.95	11.77	11.68	-91.022	-117.58	-447.56	123.60	104.09	19.51	6.335	
3,400.00	3,336.41	3,388.02	3,327.78	12.22	12.13	-91.771	-124.93	-474.03	131.35	111.09	20.26	6.484	
3,500.00	3,432.31	3,487.71	3,423.60	12.68	12.58	-92.436	-132.28	-500.51	139.12	118.10	21.01	6.620	
3,600.00	3,528.21	3,587.39	3,519.42	13.14	13.04	-93.031	-139.63	-526.98	146.90	125.12	21.78	6.745	
3,700.00	3,624.11	3,687.08	3,615.25	13.61	13.50	-93.566	-146.98	-553.46	154.71	132.15	22.55	6.859	
3,800.00	3,720.02	3,786.76	3,711.07	14.08	13.96	-94.050	-154.33	-579.93	162.52	139.19	23.33	6.965	
3,900.00	3,815.92	3,886.45	3,806.90	14.55	14.43	-94.489	-161.68	-606.40	170.34	146.22	24.12	7.062	
4,000.00	3,911.82	3,986.14	3,902.72	15.02	14.89	-94.890	-169.03	-632.88	178.18	153.27	24.91	7.153	
4,100.00	4,007.73	4,085.82	3,998.54	15.49	15.36	-95.257	-176.38	-659.35	186.02	160.31	25.71	7.236	
4,114.86	4,021.98	4,100.63	4,012.79	15.56	15.43	-95.308	-177.47	-663.29	187.18	161.36	25.82	7.250	
4,200.00	4,103.97	4,185.52	4,094.38	15.97	15.84	-95.351	-183.73	-685.83	193.75	167.27	26.48	7.318	
4,300.00	4,201.10	4,285.17	4,190.18	16.46	16.31	-94.486	-191.08	-712.30	201.18	173.95	27.23	7.389	
4,400.00	4,299.00	4,384.67	4,285.82	16.94	16.79	-92.736	-198.41	-738.72	208.49	180.54	27.96	7.458	
4,500.00	4,397.55	4,483.89	4,381.19	17.40	17.26	-90.203	-205.73	-765.07	215.99	187.31	28.68	7.531	
4,600.00	4,496.63	4,582.70	4,476.18	17.84	17.73	-86.995	-213.01	-791.31	224.09	194.66	29.43	7.615	
4,700.00	4,596.12	4,680.99	4,570.66	18.26	18.21	-83.229	-220.26	-817.42	233.31	203.08	30.23	7.717	
4,800.00	4,695.90	4,778.64	4,664.53	18.64	18.68	-79.041	-227.46	-843.35	244.23	213.11	31.12	7.847	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley BS Fed Com 501H - OH - Plan 1 11-02-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.00	4,795.85	4,875.53	4,757.66	18.96	19.15	-74.582	-234.60	-869.08	257.41	225.29	32.12	8.015	
4,937.75	4,833.60	4,911.88	4,792.61	19.00	19.32	-162.138	-237.28	-878.74	263.08	230.58	32.50	8.095	
5,000.00	4,895.85	4,972.98	4,851.36	19.02	19.61	-159.161	-241.76	-894.89	273.10	239.97	33.13	8.242	
5,100.00	4,995.85	5,076.21	4,951.28	19.06	20.11	-154.972	-248.69	-919.84	289.02	254.86	34.17	8.459	
5,200.00	5,095.85	5,181.26	5,053.86	19.11	20.62	-151.692	-254.75	-941.66	303.70	268.61	35.08	8.656	
5,300.00	5,195.85	5,287.88	5,158.75	19.15	21.12	-149.176	-259.87	-960.09	316.51	280.64	35.86	8.825	
5,400.00	5,295.85	5,395.82	5,265.58	19.20	21.61	-147.309	-263.98	-974.90	327.02	290.52	36.50	8.958	
5,500.00	5,395.85	5,504.78	5,373.93	19.24	22.07	-146.004	-267.03	-985.90	334.94	297.93	37.00	9.051	
5,600.00	5,495.85	5,614.46	5,483.36	19.28	22.48	-145.202	-268.99	-992.96	340.05	302.70	37.35	9.103	
5,700.00	5,595.85	5,724.54	5,593.39	19.33	22.79	-144.866	-269.83	-995.99	342.25	304.73	37.53	9.120	
5,800.00	5,695.85	5,827.00	5,695.85	19.37	22.84	-144.853	-269.87	-996.11	342.34	304.75	37.59	9.108	
5,900.00	5,795.85	5,927.00	5,795.85	19.42	22.87	-144.853	-269.87	-996.11	342.34	304.66	37.68	9.085	
6,000.00	5,895.85	6,027.00	5,895.85	19.46	22.91	-144.853	-269.87	-996.11	342.34	304.56	37.78	9.062	
6,100.00	5,995.85	6,127.00	5,995.85	19.51	22.94	-144.853	-269.87	-996.11	342.34	304.47	37.88	9.038	
6,200.00	6,095.85	6,227.00	6,095.85	19.56	22.97	-144.853	-269.87	-996.11	342.34	304.37	37.97	9.015	
6,300.00	6,195.85	6,327.00	6,195.85	19.60	23.01	-144.853	-269.87	-996.11	342.34	304.27	38.07	8.992	
6,400.00	6,295.85	6,427.00	6,295.85	19.65	23.04	-144.853	-269.87	-996.11	342.34	304.17	38.17	8.969	
6,500.00	6,395.85	6,527.00	6,395.85	19.70	23.07	-144.853	-269.87	-996.11	342.34	304.07	38.27	8.946	
6,600.00	6,495.85	6,627.00	6,495.85	19.74	23.11	-144.853	-269.87	-996.11	342.34	303.97	38.37	8.923	
6,700.00	6,595.85	6,727.00	6,595.85	19.79	23.14	-144.853	-269.87	-996.11	342.34	303.87	38.47	8.900	
6,800.00	6,695.85	6,827.00	6,695.85	19.84	23.18	-144.853	-269.87	-996.11	342.34	303.77	38.57	8.877	
6,900.00	6,795.85	6,927.00	6,795.85	19.89	23.21	-144.853	-269.87	-996.11	342.34	303.67	38.67	8.854	
7,000.00	6,895.85	7,027.00	6,895.85	19.93	23.25	-144.853	-269.87	-996.11	342.34	303.57	38.77	8.831	
7,100.00	6,995.85	7,127.00	6,995.85	19.98	23.29	-144.853	-269.87	-996.11	342.34	303.47	38.87	8.808	
7,200.00	7,095.85	7,227.00	7,095.85	20.03	23.32	-144.853	-269.87	-996.11	342.34	303.37	38.97	8.785	
7,300.00	7,195.85	7,327.00	7,195.85	20.08	23.36	-144.853	-269.87	-996.11	342.34	303.27	39.07	8.762	
7,400.00	7,295.85	7,427.00	7,295.85	20.13	23.39	-144.853	-269.87	-996.11	342.34	303.17	39.17	8.739	
7,500.00	7,395.85	7,527.00	7,395.85	20.18	23.43	-144.853	-269.87	-996.11	342.34	303.06	39.28	8.716	
7,600.00	7,495.85	7,627.00	7,495.85	20.22	23.47	-144.853	-269.87	-996.11	342.34	302.96	39.38	8.693	
7,700.00	7,595.85	7,727.00	7,595.85	20.27	23.50	-144.853	-269.87	-996.11	342.34	302.86	39.48	8.670	
7,800.00	7,695.85	7,827.00	7,695.85	20.32	23.54	-144.853	-269.87	-996.11	342.34	302.75	39.59	8.648	
7,900.00	7,795.85	7,927.00	7,795.85	20.37	23.57	-144.853	-269.87	-996.11	342.34	302.65	39.69	8.626	
8,000.00	7,895.85	8,089.97	7,957.66	20.42	23.51	-143.337	-254.78	-996.17	335.89	297.41	38.48	8.729	
8,100.00	7,995.85	8,256.94	8,112.44	20.47	23.38	-135.913	-193.73	-996.43	306.74	269.87	36.87	8.320	
8,200.00	8,095.85	8,382.70	8,213.76	20.52	23.32	-123.272	-119.67	-996.74	264.24	227.45	36.79	7.183	
8,300.00	8,195.85	8,472.72	8,275.15	20.57	23.31	-107.918	-53.96	-997.01	222.67	183.60	39.07	5.699	
8,400.00	8,295.85	8,537.39	8,312.51	20.63	23.35	-93.256	-1.21	-997.23	199.22	156.18	43.05	4.628	
8,423.06	8,318.90	8,549.63	8,318.90	20.64	23.35	-90.240	9.23	-997.28	198.25	154.42	43.83	4.523	
8,500.00	8,395.85	8,584.97	8,336.08	20.68	23.39	-81.387	40.11	-997.41	209.35	164.27	45.08	4.644	
8,600.00	8,495.85	8,621.00	8,351.60	20.73	23.44	-72.511	72.61	-997.54	253.23	209.33	43.90	5.769	
8,700.00	8,595.85	8,650.00	8,362.59	20.78	23.49	-65.771	99.45	-997.65	319.14	277.28	41.86	7.624	
8,800.00	8,695.85	8,671.32	8,369.79	20.83	23.54	-61.153	119.51	-997.74	397.21	356.99	40.22	9.877	
8,900.00	8,795.85	8,700.00	8,378.30	20.88	23.60	-55.463	146.90	-997.85	482.29	443.16	39.13	12.326	
9,000.00	8,895.85	8,700.00	8,378.30	20.93	23.60	-55.463	146.90	-997.85	571.06	532.72	38.34	14.896	
9,100.00	8,995.85	8,717.07	8,382.71	20.99	23.65	-52.372	163.38	-997.92	662.58	624.68	37.89	17.485	
9,200.00	9,095.85	8,727.79	8,385.23	21.04	23.68	-50.541	173.81	-997.97	755.89	718.28	37.61	20.096	
9,300.00	9,195.85	8,750.00	8,389.82	21.09	23.75	-47.018	195.54	-998.06	850.71	813.18	37.53	22.669	
9,400.00	9,295.85	8,750.00	8,389.82	21.14	23.75	-47.018	195.54	-998.06	946.00	908.56	37.44	25.270	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 701H - OH - Plan 1 11-02-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	90.618	-0.27	25.03	25.03				
100.00	100.00	100.00	100.00	0.53	0.53	90.618	-0.27	25.03	25.03	23.97	1.07	23.480	
200.00	200.00	200.00	200.00	1.32	1.32	90.618	-0.27	25.03	25.03	22.38	2.65	9.450	
300.00	300.00	300.00	300.00	1.80	1.80	90.618	-0.27	25.03	25.03	21.43	3.60	6.956	
400.00	400.00	400.00	400.00	2.18	2.18	90.618	-0.27	25.03	25.03	20.68	4.35	5.753	
500.00	500.00	500.00	500.00	2.50	2.50	90.618	-0.27	25.03	25.03	20.03	5.00	5.009	
600.00	600.00	600.00	600.00	2.79	2.79	90.618	-0.27	25.03	25.03	19.46	5.57	4.491	
700.00	700.00	700.00	700.00	3.05	3.05	90.618	-0.27	25.03	25.03	18.93	6.10	4.103	
800.00	800.00	800.00	800.00	3.29	3.29	90.618	-0.27	25.03	25.03	18.44	6.59	3.799	
900.00	900.00	900.00	900.00	3.52	3.52	90.618	-0.27	25.03	25.03	17.98	7.05	3.552	
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	90.618	-0.27	25.03	25.03	17.55	7.48	3.346	
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	90.618	-0.27	25.03	25.03	17.14	7.89	3.171	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.618	-0.27	25.03	25.03	16.74	8.29	3.019	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	90.618	-0.27	25.03	25.03	16.36	8.67	2.887 CC	
1,400.00	1,399.98	1,400.75	1,400.73	4.62	4.62	-178.082	-1.14	23.49	25.27	16.06	9.21	2.745 ES	
1,500.00	1,499.84	1,501.46	1,501.29	4.90	4.90	-172.280	-3.75	18.87	26.17	16.47	9.70	2.699 SF	
1,600.00	1,599.45	1,602.06	1,601.50	5.20	5.19	-163.608	-8.10	11.18	28.20	18.05	10.15	2.779	
1,700.00	1,698.70	1,702.50	1,701.18	5.51	5.49	-153.660	-14.16	0.45	31.92	21.39	10.53	3.030	
1,800.00	1,797.47	1,802.75	1,800.17	5.85	5.82	-144.122	-21.91	-13.28	37.76	26.90	10.87	3.475	
1,900.00	1,895.62	1,902.34	1,898.17	6.20	6.05	-137.623	-30.66	-28.77	46.26	35.08	11.18	4.137	
2,000.00	1,993.06	2,001.68	1,995.90	6.57	6.33	-135.607	-39.40	-44.24	57.57	45.94	11.64	4.948	
2,100.00	2,089.64	2,100.71	2,093.34	6.95	6.63	-136.184	-48.12	-59.67	71.39	59.21	12.18	5.859	
2,122.89	2,111.62	2,123.33	2,115.59	7.01	6.71	-136.533	-50.11	-63.19	74.91	62.62	12.30	6.092	
2,200.00	2,185.57	2,199.46	2,190.49	7.25	6.95	-137.774	-56.81	-75.05	87.01	74.29	12.72	6.842	
2,300.00	2,281.47	2,298.20	2,287.64	7.60	7.28	-138.949	-65.49	-90.43	102.73	89.42	13.31	7.718	
2,400.00	2,377.38	2,396.94	2,384.78	7.97	7.63	-139.811	-74.18	-105.81	118.49	104.57	13.92	8.510	
2,500.00	2,473.28	2,495.67	2,481.92	8.36	7.98	-140.471	-82.87	-121.18	134.27	119.72	14.55	9.225	
2,600.00	2,569.18	2,594.41	2,579.07	8.75	8.35	-140.992	-91.56	-136.56	150.07	134.86	15.20	9.872	
2,700.00	2,665.09	2,693.15	2,676.21	9.16	8.72	-141.413	-100.25	-151.94	165.87	150.01	15.86	10.456	
2,800.00	2,760.99	2,791.88	2,773.36	9.58	9.10	-141.762	-108.93	-167.32	181.68	165.14	16.54	10.986	
2,900.00	2,856.89	2,890.62	2,870.50	10.00	9.49	-142.054	-117.62	-182.70	197.49	180.27	17.22	11.467	
3,000.00	2,952.79	2,989.36	2,967.64	10.44	9.88	-142.304	-126.31	-198.08	213.31	195.40	17.92	11.904	
3,100.00	3,048.70	3,088.09	3,064.79	10.88	10.28	-142.518	-135.00	-213.46	229.14	210.51	18.63	12.303	
3,200.00	3,144.60	3,186.83	3,161.93	11.32	10.68	-142.705	-143.69	-228.84	244.96	225.62	19.34	12.667	
3,300.00	3,240.50	3,285.57	3,259.08	11.77	11.09	-142.870	-152.37	-244.22	260.79	240.73	20.06	13.000	
3,400.00	3,336.41	3,384.30	3,356.22	12.22	11.50	-143.015	-161.06	-259.59	276.62	255.83	20.79	13.306	
3,500.00	3,432.31	3,483.04	3,453.36	12.68	11.91	-143.145	-169.75	-274.97	292.45	270.93	21.52	13.588	
3,600.00	3,528.21	3,581.78	3,550.51	13.14	12.33	-143.262	-178.44	-290.35	308.29	286.02	22.26	13.848	
3,700.00	3,624.11	3,680.51	3,647.65	13.61	12.74	-143.367	-187.13	-305.73	324.12	301.11	23.01	14.088	
3,800.00	3,720.02	3,779.25	3,744.80	14.08	13.17	-143.462	-195.81	-321.11	339.96	316.20	23.76	14.310	
3,900.00	3,815.92	3,877.99	3,841.94	14.55	13.59	-143.549	-204.50	-336.49	355.79	331.28	24.51	14.516	
4,000.00	3,911.82	3,976.73	3,939.08	15.02	14.01	-143.628	-213.19	-351.87	371.63	346.36	25.27	14.708	
4,100.00	4,007.73	4,075.46	4,036.23	15.49	14.44	-143.701	-221.88	-367.25	387.47	361.44	26.03	14.887	
4,114.86	4,021.98	4,090.14	4,050.67	15.56	14.50	-143.711	-223.17	-369.53	389.82	363.69	26.13	14.916	
4,200.00	4,103.97	4,174.35	4,133.52	15.97	14.87	-143.810	-230.58	-382.65	402.29	375.53	26.77	15.029	
4,300.00	4,201.10	4,273.59	4,231.16	16.46	15.30	-143.631	-239.31	-398.11	414.37	386.89	27.48	15.080	
4,400.00	4,299.00	4,372.61	4,328.59	16.94	15.72	-143.161	-248.02	-413.52	423.68	395.58	28.11	15.074	
4,500.00	4,397.55	4,466.75	4,421.50	17.40	16.13	-142.672	-255.43	-426.64	431.01	402.35	28.66	15.039	
4,600.00	4,496.63	4,561.05	4,515.03	17.84	16.54	-142.296	-261.35	-437.11	436.87	407.69	29.18	14.974	
4,700.00	4,596.12	4,655.47	4,609.03	18.26	16.93	-142.023	-265.75	-444.91	441.23	411.60	29.64	14.888	
4,800.00	4,695.90	4,749.99	4,703.36	18.64	17.28	-141.849	-268.63	-450.00	444.09	414.06	30.04	14.784	
4,900.00	4,795.85	4,844.57	4,797.89	18.96	17.53	-141.768	-269.98	-452.39	445.43	415.09	30.34	14.679	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 701H - OH - Plan 1 11-02-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,937.75	4,833.60	4,880.28	4,833.60	19.00	17.59	128.960	-270.09	-452.58	445.54	415.15	30.39	14.660	
5,000.00	4,895.85	4,942.53	4,895.85	19.02	17.60	128.960	-270.09	-452.58	445.54	415.11	30.43	14.640	
5,100.00	4,995.85	5,042.53	4,995.85	19.06	17.65	128.960	-270.09	-452.58	445.54	415.01	30.54	14.590	
5,200.00	5,095.85	5,142.53	5,095.85	19.11	17.69	128.960	-270.09	-452.58	445.54	414.90	30.64	14.540	
5,300.00	5,195.85	5,242.53	5,195.85	19.15	17.73	128.960	-270.09	-452.58	445.54	414.80	30.75	14.491	
5,400.00	5,295.85	5,342.53	5,295.85	19.20	17.77	128.960	-270.09	-452.58	445.54	414.69	30.85	14.441	
5,500.00	5,395.85	5,442.53	5,395.85	19.24	17.81	128.960	-270.09	-452.58	445.54	414.58	30.96	14.391	
5,600.00	5,495.85	5,542.53	5,495.85	19.28	17.85	128.960	-270.09	-452.58	445.54	414.48	31.07	14.342	
5,700.00	5,595.85	5,642.53	5,595.85	19.33	17.89	128.960	-270.09	-452.58	445.54	414.37	31.17	14.293	
5,800.00	5,695.85	5,742.53	5,695.85	19.37	17.94	128.960	-270.09	-452.58	445.54	414.26	31.28	14.244	
5,900.00	5,795.85	5,842.53	5,795.85	19.42	17.98	128.960	-270.09	-452.58	445.54	414.16	31.39	14.195	
6,000.00	5,895.85	5,942.53	5,895.85	19.46	18.02	128.960	-270.09	-452.58	445.54	414.05	31.50	14.146	
6,100.00	5,995.85	6,042.53	5,995.85	19.51	18.07	128.960	-270.09	-452.58	445.54	413.94	31.61	14.097	
6,200.00	6,095.85	6,142.53	6,095.85	19.56	18.11	128.960	-270.09	-452.58	445.54	413.83	31.71	14.048	
6,300.00	6,195.85	6,242.53	6,195.85	19.60	18.15	128.960	-270.09	-452.58	445.54	413.72	31.82	14.000	
6,400.00	6,295.85	6,342.53	6,295.85	19.65	18.20	128.960	-270.09	-452.58	445.54	413.61	31.93	13.952	
6,500.00	6,395.85	6,442.53	6,395.85	19.70	18.24	128.960	-270.09	-452.58	445.54	413.50	32.05	13.903	
6,600.00	6,495.85	6,542.53	6,495.85	19.74	18.29	128.960	-270.09	-452.58	445.54	413.39	32.16	13.855	
6,700.00	6,595.85	6,642.53	6,595.85	19.79	18.33	128.960	-270.09	-452.58	445.54	413.27	32.27	13.807	
6,800.00	6,695.85	6,742.53	6,695.85	19.84	18.38	128.960	-270.09	-452.58	445.54	413.16	32.38	13.760	
6,900.00	6,795.85	6,842.53	6,795.85	19.89	18.42	128.960	-270.09	-452.58	445.54	413.05	32.49	13.712	
7,000.00	6,895.85	6,942.53	6,895.85	19.93	18.47	128.960	-270.09	-452.58	445.54	412.94	32.61	13.664	
7,100.00	6,995.85	7,042.53	6,995.85	19.98	18.51	128.960	-270.09	-452.58	445.54	412.82	32.72	13.617	
7,200.00	7,095.85	7,142.53	7,095.85	20.03	18.56	128.960	-270.09	-452.58	445.54	412.71	32.83	13.570	
7,300.00	7,195.85	7,242.53	7,195.85	20.08	18.60	128.960	-270.09	-452.58	445.54	412.60	32.95	13.523	
7,400.00	7,295.85	7,342.53	7,295.85	20.13	18.65	128.960	-270.09	-452.58	445.54	412.48	33.06	13.476	
7,500.00	7,395.85	7,442.53	7,395.85	20.18	18.70	128.960	-270.09	-452.58	445.54	412.37	33.18	13.429	
7,600.00	7,495.85	7,542.53	7,495.85	20.22	18.74	128.960	-270.09	-452.58	445.54	412.25	33.29	13.383	
7,700.00	7,595.85	7,642.53	7,595.85	20.27	18.79	128.960	-270.09	-452.58	445.54	412.13	33.41	13.336	
7,800.00	7,695.85	7,742.53	7,695.85	20.32	18.84	128.960	-270.09	-452.58	445.54	412.02	33.52	13.290	
7,900.00	7,795.85	7,842.53	7,795.85	20.37	18.89	128.960	-270.09	-452.58	445.54	411.90	33.64	13.244	
8,000.00	7,895.85	7,942.53	7,895.85	20.42	18.94	128.960	-270.09	-452.58	445.54	411.79	33.76	13.198	
8,100.00	7,995.85	8,042.53	7,995.85	20.47	18.98	128.960	-270.09	-452.58	445.54	411.67	33.88	13.152	
8,200.00	8,095.85	8,142.53	8,095.85	20.52	19.03	128.960	-270.09	-452.58	445.54	411.55	33.99	13.107	
8,300.00	8,195.85	8,242.53	8,195.85	20.57	19.08	128.960	-270.09	-452.58	445.54	411.43	34.11	13.061	
8,400.00	8,295.85	8,342.53	8,295.85	20.63	19.13	128.960	-270.09	-452.58	445.54	411.31	34.23	13.016	
8,500.00	8,395.85	8,442.53	8,395.85	20.68	19.18	128.960	-270.09	-452.58	445.54	411.19	34.35	12.971	
8,600.00	8,495.85	8,542.53	8,495.85	20.73	19.23	128.960	-270.09	-452.58	445.54	411.08	34.47	12.926	
8,700.00	8,595.85	8,642.53	8,595.85	20.78	19.28	128.960	-270.09	-452.58	445.54	410.96	34.59	12.882	
8,800.00	8,695.85	8,742.53	8,695.85	20.83	19.33	128.960	-270.09	-452.58	445.54	410.84	34.71	12.837	
8,900.00	8,795.85	8,842.53	8,795.85	20.88	19.38	128.960	-270.09	-452.58	445.54	410.72	34.83	12.793	
9,000.00	8,895.85	8,942.53	8,895.85	20.93	19.43	128.960	-270.09	-452.58	445.54	410.59	34.95	12.749	
9,100.00	8,995.85	9,042.53	8,995.85	20.99	19.48	128.960	-270.09	-452.58	445.54	410.47	35.07	12.705	
9,200.00	9,095.85	9,142.53	9,095.85	21.04	19.53	128.960	-270.09	-452.58	445.54	410.35	35.19	12.661	
9,300.00	9,195.85	9,242.53	9,195.85	21.09	19.58	128.960	-270.09	-452.58	445.54	410.23	35.31	12.617	
9,400.00	9,295.85	9,342.53	9,295.85	21.14	19.63	128.960	-270.09	-452.58	445.54	410.11	35.43	12.573	
9,500.00	9,395.85	9,442.53	9,395.85	21.19	19.68	128.960	-270.09	-452.58	445.54	410.00	35.55	12.529	
9,600.00	9,495.85	9,542.53	9,495.85	21.24	19.73	128.960	-270.09	-452.58	445.54	409.88	35.67	12.485	
9,700.00	9,595.85	9,642.53	9,595.85	21.29	19.78	128.960	-270.09	-452.58	445.54	409.76	35.79	12.441	
9,800.00	9,695.85	9,742.53	9,695.85	21.34	19.83	128.960	-270.09	-452.58	445.54	409.64	35.91	12.397	
9,900.00	9,795.85	9,842.53	9,795.85	21.39	19.88	128.960	-270.09	-452.58	445.54	409.52	36.03	12.353	
9,900.00	9,795.85	9,800.00	9,606.87	21.41	19.11	77.777	84.79	-454.07	400.37	363.40	36.97	10.829	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 701H - OH - Plan 1 11-02-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,000.00	9,895.85	9,827.85	9,616.84	21.46	19.16	73.718	110.79	-454.18	454.88	418.58	36.29	12.534	
10,100.00	9,995.85	9,850.00	9,623.87	21.52	19.21	70.552	131.80	-454.27	521.59	485.51	36.08	14.457	
10,176.20	10,072.04	9,850.00	9,623.87	21.55	19.21	70.552	131.80	-454.27	578.40	542.27	36.13	16.009	
10,200.00	10,095.84	9,864.38	9,627.99	21.56	19.24	66.114	145.57	-454.32	596.61	560.42	36.18	16.488	
10,250.00	10,145.64	9,873.58	9,630.44	21.58	19.27	59.518	154.44	-454.36	635.41	599.10	36.31	17.501	
10,300.00	10,194.89	9,884.04	9,633.06	21.60	19.29	53.342	164.57	-454.40	674.08	637.62	36.46	18.487	
10,350.00	10,243.19	9,900.00	9,636.69	21.63	19.33	47.433	180.11	-454.47	712.28	675.64	36.64	19.438	
10,400.00	10,290.20	9,900.00	9,636.69	21.66	19.33	43.422	180.11	-454.47	749.68	712.83	36.84	20.348	
10,450.00	10,335.54	9,921.40	9,640.89	21.69	19.40	38.709	201.09	-454.56	785.80	748.74	37.06	21.205	
10,500.00	10,378.88	9,935.40	9,643.21	21.72	19.44	35.141	214.90	-454.61	820.67	783.39	37.28	22.015	
10,550.00	10,419.89	9,950.00	9,645.26	21.76	19.49	32.124	229.35	-454.67	853.98	816.48	37.50	22.773	
10,600.00	10,458.25	9,965.17	9,647.01	21.80	19.55	29.580	244.42	-454.74	885.57	847.84	37.72	23.475	
10,650.00	10,493.66	9,980.78	9,648.39	21.86	19.60	27.438	259.97	-454.80	915.27	877.33	37.94	24.122	
10,700.00	10,525.87	10,000.00	9,649.51	21.92	19.68	25.580	279.15	-454.88	942.97	904.81	38.16	24.710	
10,750.00	10,554.63	10,013.15	9,649.90	21.99	19.73	24.123	292.30	-454.94	968.51	930.16	38.35	25.255	
10,800.00	10,579.71	10,039.69	9,650.00	22.08	19.85	22.740	318.84	-455.05	991.75	953.20	38.55	25.729	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Offset Design: Ripley Fed Com Pad - Ripley WC Fed Com 702H - OH - Plan 1 11-02-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	90.206	-0.27	75.09	75.09				
100.00	100.00	100.00	100.00	0.53	0.53	90.206	-0.27	75.09	75.09	74.02	1.07	70.435	
200.00	200.00	200.00	200.00	1.32	1.32	90.206	-0.27	75.09	75.09	72.44	2.65	28.350	
300.00	300.00	300.00	300.00	1.80	1.80	90.206	-0.27	75.09	75.09	71.49	3.60	20.868	
400.00	400.00	400.00	400.00	2.18	2.18	90.206	-0.27	75.09	75.09	70.74	4.35	17.257	
500.00	500.00	500.00	500.00	2.50	2.50	90.206	-0.27	75.09	75.09	70.09	5.00	15.026	
600.00	600.00	600.00	600.00	2.79	2.79	90.206	-0.27	75.09	75.09	69.52	5.57	13.473	
700.00	700.00	700.00	700.00	3.05	3.05	90.206	-0.27	75.09	75.09	68.99	6.10	12.310	
800.00	800.00	800.00	800.00	3.29	3.29	90.206	-0.27	75.09	75.09	68.50	6.59	11.397	
900.00	900.00	900.00	900.00	3.52	3.52	90.206	-0.27	75.09	75.09	68.04	7.05	10.656	
1,000.00	1,000.00	1,000.00	1,000.00	3.74	3.74	90.206	-0.27	75.09	75.09	67.61	7.48	10.037	
1,100.00	1,100.00	1,100.00	1,100.00	3.95	3.95	90.206	-0.27	75.09	75.09	67.20	7.89	9.512	
1,200.00	1,200.00	1,200.00	1,200.00	4.15	4.15	90.206	-0.27	75.09	75.09	66.80	8.29	9.057	
1,300.00	1,300.00	1,300.00	1,300.00	4.34	4.34	90.206	-0.27	75.09	75.09	66.42	8.67	8.659 CC, ES	
1,400.00	1,399.98	1,397.83	1,397.81	4.62	4.61	-179.775	-1.27	76.43	78.21	69.02	9.19	8.508	
1,500.00	1,499.84	1,495.04	1,494.89	4.90	4.87	-177.874	-4.24	80.41	87.63	77.94	9.70	9.036	
1,600.00	1,599.45	1,591.00	1,590.50	5.20	5.15	-175.479	-9.10	86.93	103.43	93.20	10.23	10.115	
1,700.00	1,698.70	1,685.15	1,683.99	5.51	5.43	-173.136	-15.73	95.81	125.59	114.82	10.77	11.659	
1,800.00	1,797.47	1,779.44	1,777.29	5.85	5.62	-171.148	-23.89	106.76	153.59	142.33	11.26	13.644	
1,900.00	1,895.62	1,874.24	1,871.05	6.20	5.86	-169.849	-32.27	117.99	185.22	173.41	11.82	15.674	
2,000.00	1,993.06	1,967.92	1,963.69	6.57	6.12	-169.053	-40.55	129.08	220.14	207.73	12.41	17.733	
2,100.00	2,089.64	2,060.35	2,055.11	6.95	6.39	-168.577	-48.71	140.03	258.27	245.23	13.04	19.813	
2,122.89	2,111.62	2,081.32	2,075.85	7.01	6.45	-168.501	-50.56	142.51	267.44	254.28	13.15	20.331	
2,200.00	2,185.57	2,151.85	2,145.61	7.25	6.67	-168.406	-56.79	150.86	298.61	285.02	13.59	21.978	
2,300.00	2,281.47	2,243.31	2,236.07	7.60	6.96	-168.309	-64.88	161.70	339.03	324.84	14.20	23.883	
2,400.00	2,377.38	2,334.78	2,326.53	7.97	7.26	-168.233	-72.96	172.53	379.46	364.63	14.83	25.586	
2,500.00	2,473.28	2,426.24	2,416.99	8.36	7.58	-168.172	-81.04	183.36	419.88	404.40	15.49	27.111	
2,600.00	2,569.18	2,517.70	2,507.45	8.75	7.90	-168.121	-89.12	194.19	460.31	444.15	16.16	28.477	
2,700.00	2,665.09	2,609.17	2,597.91	9.16	8.22	-168.079	-97.20	205.02	500.74	483.88	16.86	29.703	
2,800.00	2,760.99	2,700.63	2,688.37	9.58	8.56	-168.042	-105.28	215.86	541.16	523.60	17.57	30.805	
2,900.00	2,856.89	2,792.10	2,778.83	10.00	8.90	-168.011	-113.36	226.69	581.59	563.30	18.29	31.797	
3,000.00	2,952.79	2,883.56	2,869.29	10.44	9.24	-167.984	-121.44	237.52	622.02	602.99	19.03	32.694	
3,100.00	3,048.70	2,975.02	2,959.75	10.88	9.59	-167.961	-129.52	248.35	662.44	642.67	19.77	33.506	
3,200.00	3,144.60	3,066.49	3,050.21	11.32	9.95	-167.940	-137.60	259.19	702.87	682.34	20.53	34.244	
3,300.00	3,240.50	3,157.95	3,140.67	11.77	10.30	-167.921	-145.68	270.02	743.30	722.01	21.29	34.915	
3,400.00	3,336.41	3,249.41	3,231.13	12.22	10.66	-167.904	-153.76	280.85	783.72	761.66	22.06	35.528	
3,500.00	3,432.31	3,340.88	3,321.59	12.68	11.03	-167.889	-161.84	291.68	824.15	801.31	22.84	36.089	
3,600.00	3,528.21	3,432.34	3,412.05	13.14	11.39	-167.875	-169.92	302.51	864.58	840.96	23.62	36.604	
3,700.00	3,624.11	3,523.81	3,502.51	13.61	11.76	-167.863	-178.00	313.35	905.00	880.59	24.41	37.077	
3,800.00	3,720.02	3,615.27	3,592.97	14.08	12.13	-167.851	-186.08	324.18	945.43	920.23	25.20	37.512	
3,900.00	3,815.92	3,706.73	3,683.43	14.55	12.50	-167.841	-194.16	335.01	985.86	959.86	26.00	37.915	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 2978.60usft (Cactus 169)

Offset Depths are relative to Offset Datum

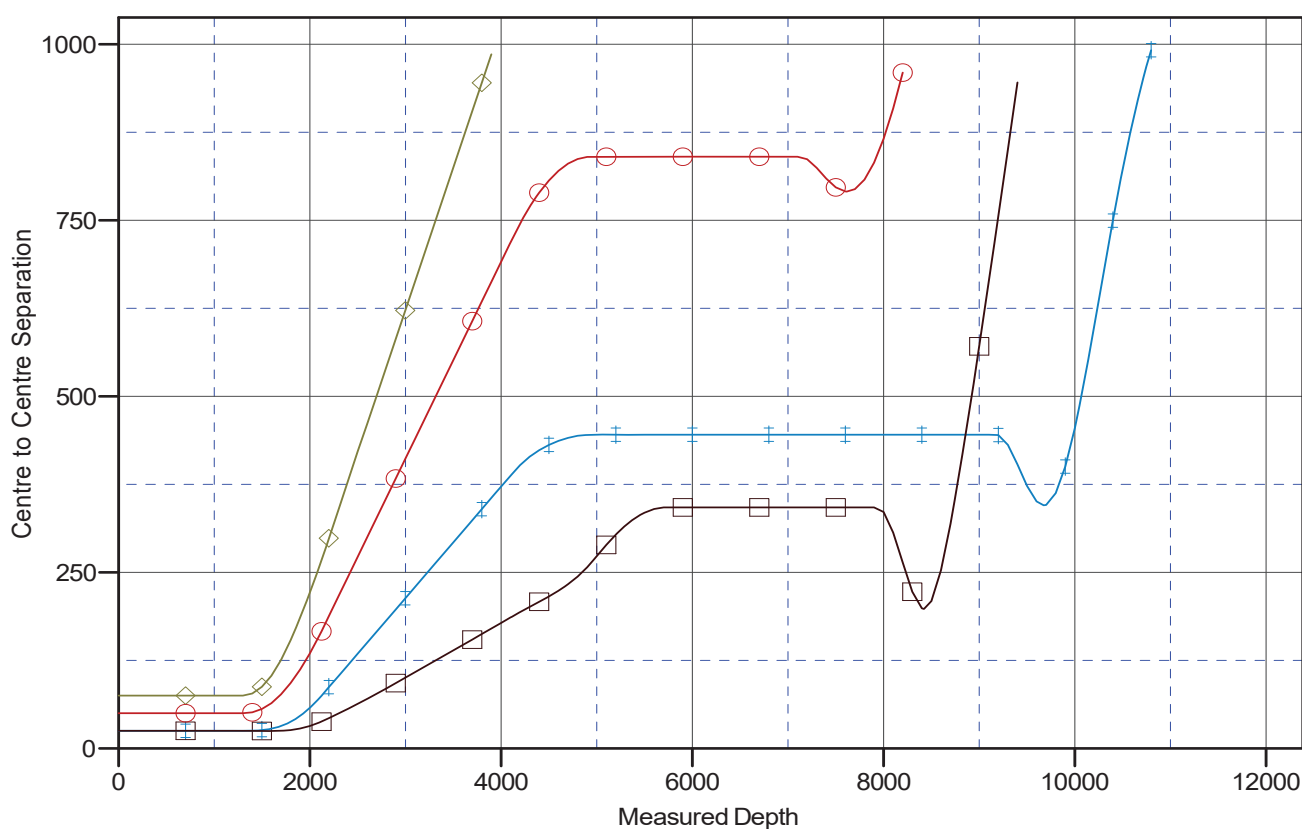
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: Ripley WC Fed Com 801H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.149°

Ladder Plot



LEGEND

- Ripley WC Fed Com 701H, OH, Plan 1 11-02-22 V0
- Ripley WC Fed Com 702H, OH, Plan 1 11-02-22 V0
- Ripley BS Fed Com 501H, OH, Plan 1 11-02-22 V0
- Ripley BS Fed Com 301H, OH, Plan 1 11-02-22 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



Phoenix Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Ripley WC Fed Com 801H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 2978.60usft (Cactus 169)
Reference Site:	Ripley Fed Com Pad	MD Reference:	RKB @ 2978.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Ripley WC Fed Com 801H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 11-02-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 2978.60usft (Cactus 169)

Offset Depths are relative to Offset Datum

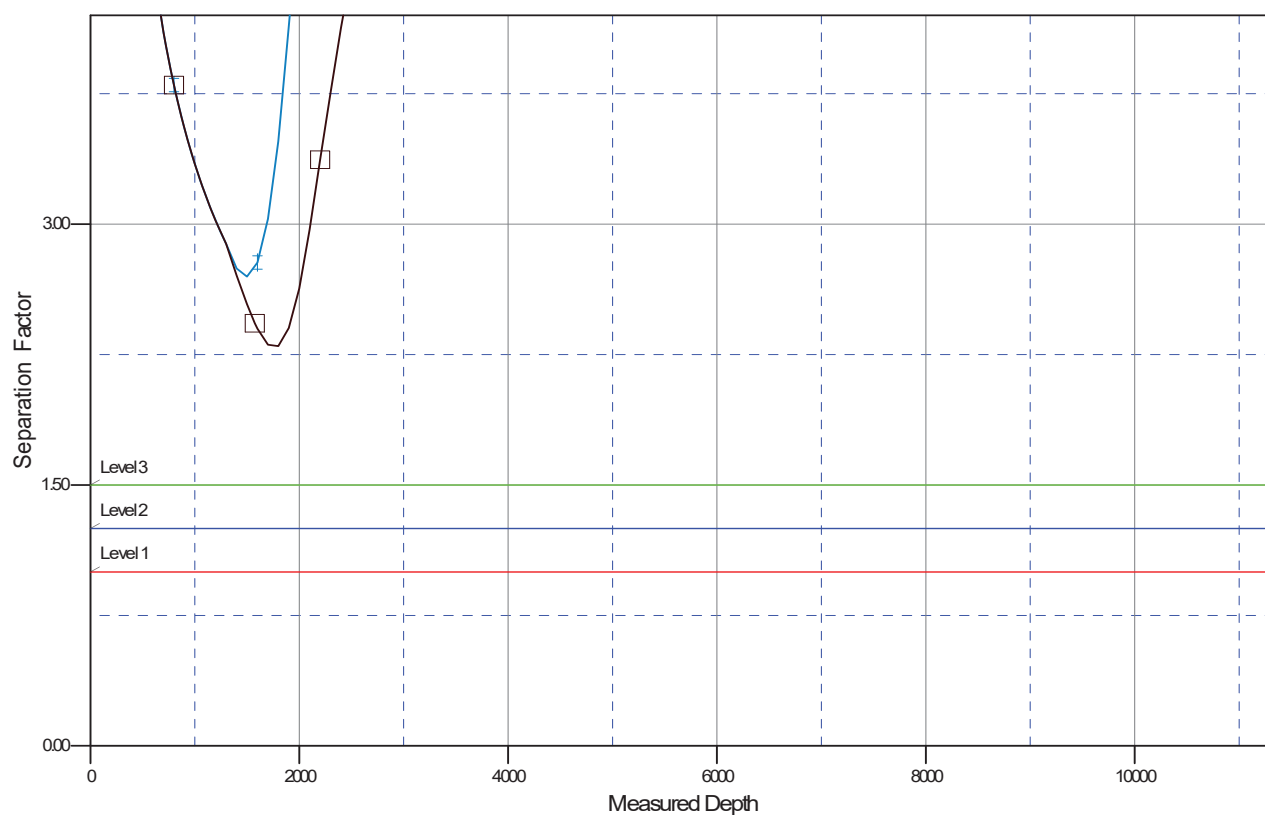
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: Ripley WC Fed Com 801H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.149°

Separation Factor Plot



LEGEND

- Ripley WC Fed Com 701H, OH, Plan 111-02-22 V0
- Ripley BS FedCom 501H, OH, Plan 1 11-02-22 V0
- Ripley WC Fed Com 702H, OH, Plan 111-02-22 V0
- Ripley BS FedCom 301H, OH, Plan 1 11-02-22 V0

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 167080

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 167080
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	12/16/2022