

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

Form C-101
August 1, 2011

Permit 322279

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024		2. OGRID Number 372098
		3. API Number 30-015-49787
4. Property Code 333092	5. Property Name MAXIMUS 5 WXY FED COM	6. Well No. 001H

7. Surface Location

UL - Lot E	Section 6	Township 23S	Range 28E	Lot Idn	Feet From 1635	N/S Line N	Feet From 442	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot H	Section 5	Township 23S	Range 28E	Lot Idn H	Feet From 1980	N/S Line N	Feet From 330	E/W Line E	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3045
16. Multiple N	17. Proposed Depth 19355	18. Formation Wolfcamp	19. Contractor	20. Spud Date 1/1/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	450	281	0
Int1	12.25	9.625	40	2418	504	0
Prod	8.75	5.5	23	19356	3280	2118

Casing/Cement Program: Additional Comments

See Supporting Documents PDF attachment for the for additional Casing and Cement Information.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	5000	Cactus

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify I have complied with 19.15.14.9 (A) NMAC <input checked="" type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> if applicable.	OIL CONSERVATION DIVISION	
Signature:		
Printed Name: Electronically filed by Melissa Szudera	Approved By: Katherine Pickford	
Title: Regulatory Compliance Representative	Title: Geoscientist	
Email Address: mszudera@marathonoil.com	Approved Date: 8/1/2022	Expiration Date: 8/1/2024
Date: 7/28/2022	Phone: 713-296-3179	Conditions of Approval Attached

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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 30-015-49787	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 333092	⁵ Property Name MAXIMUS 5 WXY FED COM	⁶ Well Number 1H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3045'

¹⁰ Surface Location

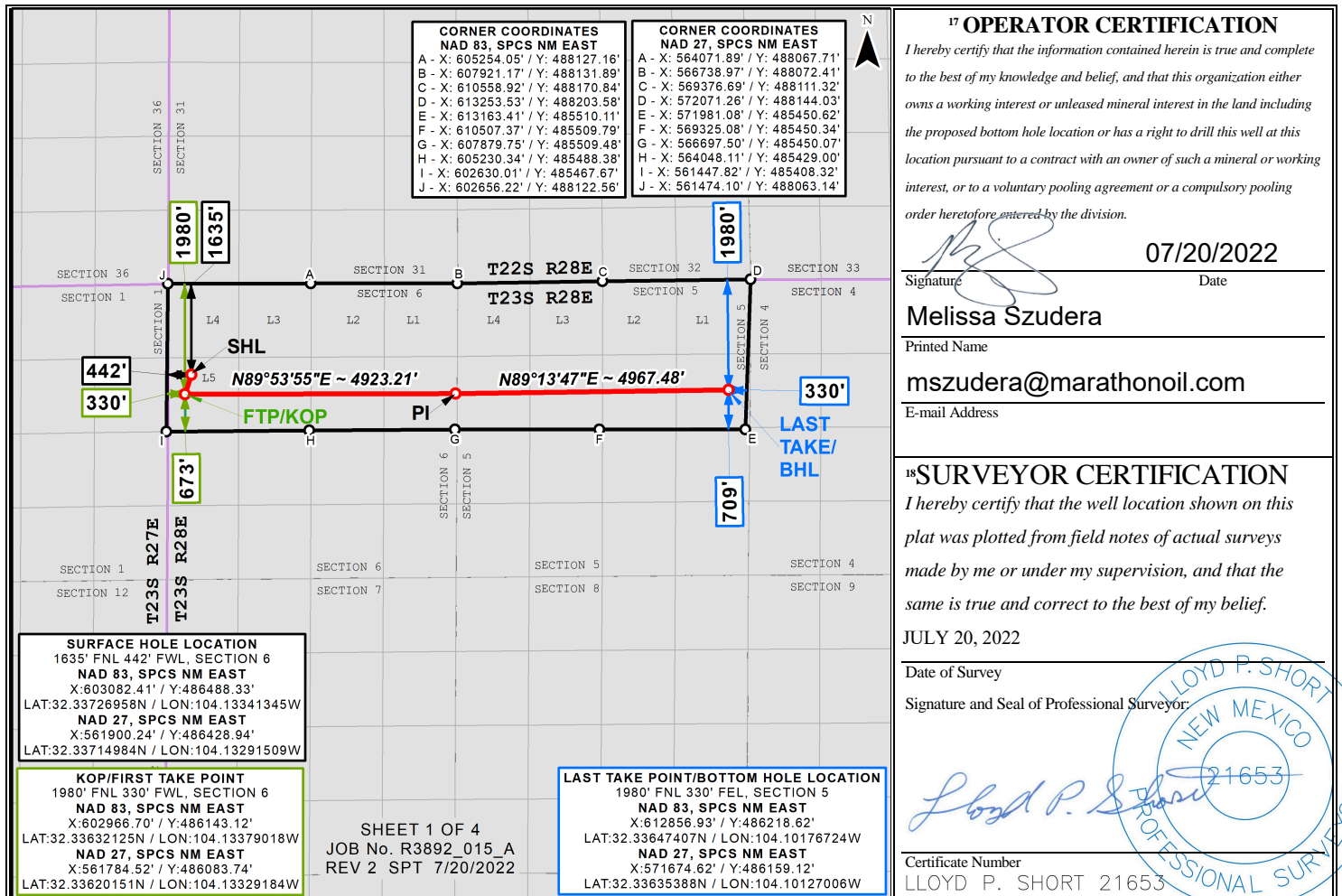
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L 5	6	23S	28E		1635	NORTH	442	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

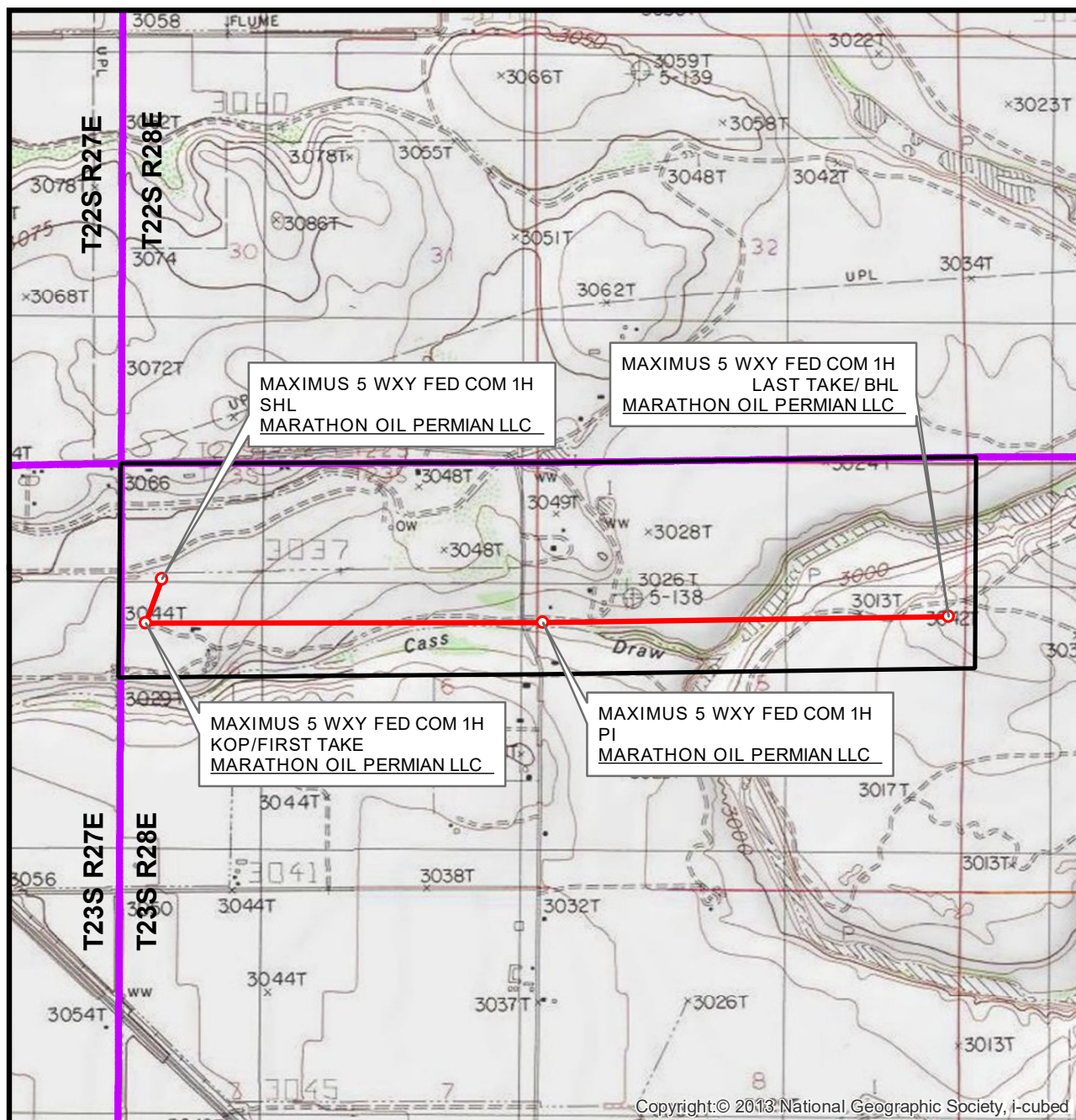
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	5	23S	28E		1980	NORTH	330	EAST	EDDY

¹² Dedicated Acres 636.84	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.



LOCATION VERIFICATION MAP



SEC. 6 TWP. 23-S RGE. 28-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 OPERATOR: MARATHON OIL PERMIAN LLC
 DESCRIPTION: 1635' FNL & 442' FWL
 ELEVATION: 3045'
 LEASE: MAXIMUS 5 FED COM
 U.S.G.S. TOPOGRAPHIC MAP: OTIS, NM.

1" = 2,000'
 CONTOUR INTERVAL = 10'



SHEET 2 OF 4

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R3892_015_A

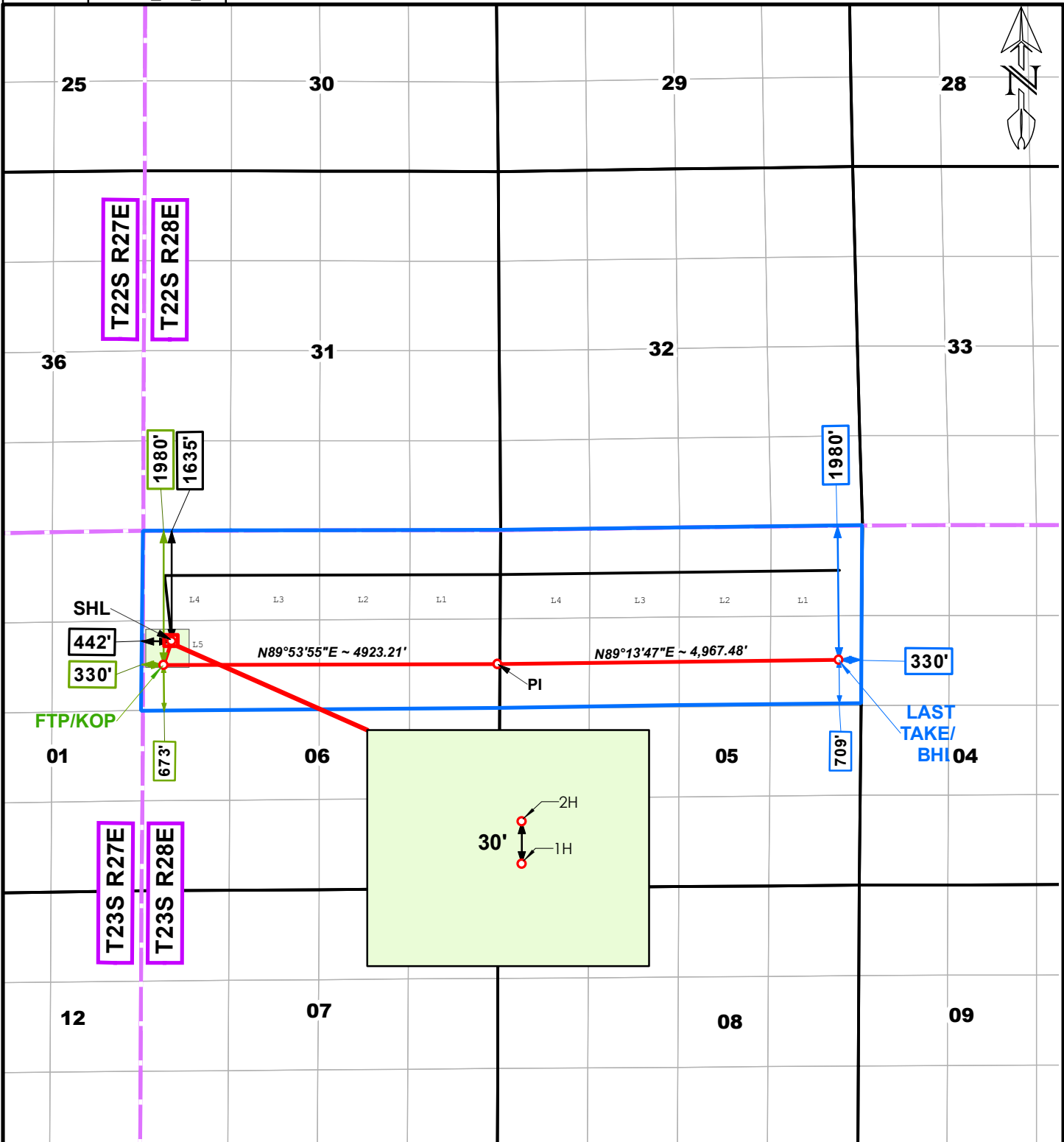
[illegible]

1 " = 1 MILE



PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-6900 OFFICE
JOB No. R3892_015_A

JOB No. R3892_015_A SECTION 6, T-23-S, R-28-E, N.M.P.M., EDDY COUNTY, NEW MEXICO



1,000 0 1,000 2,000

1 inch = 2,083 feet

LEGEND

- SUBJECT WELL / DRILL LINE
- SURVEY/SECTION LINE
- LEASE LINE
- OTHER WELLS / DRILL LINES
- TOWNSHIP / RANGE LINE
- DRILL LINE HOLES



MarathonOil
Permian LLC

WELL NAME

MAXIMUS 5 WXY
FED COM 1H

DATE SURVEYED: 07/14/2022

2 7/20/2022

GENERAL REVISION

SPT MWS

REV. DATE

BY CHKD

SHEET 4 OF 4

DRAWN BY: SPT

DATE DRAWN: 7/20/2022

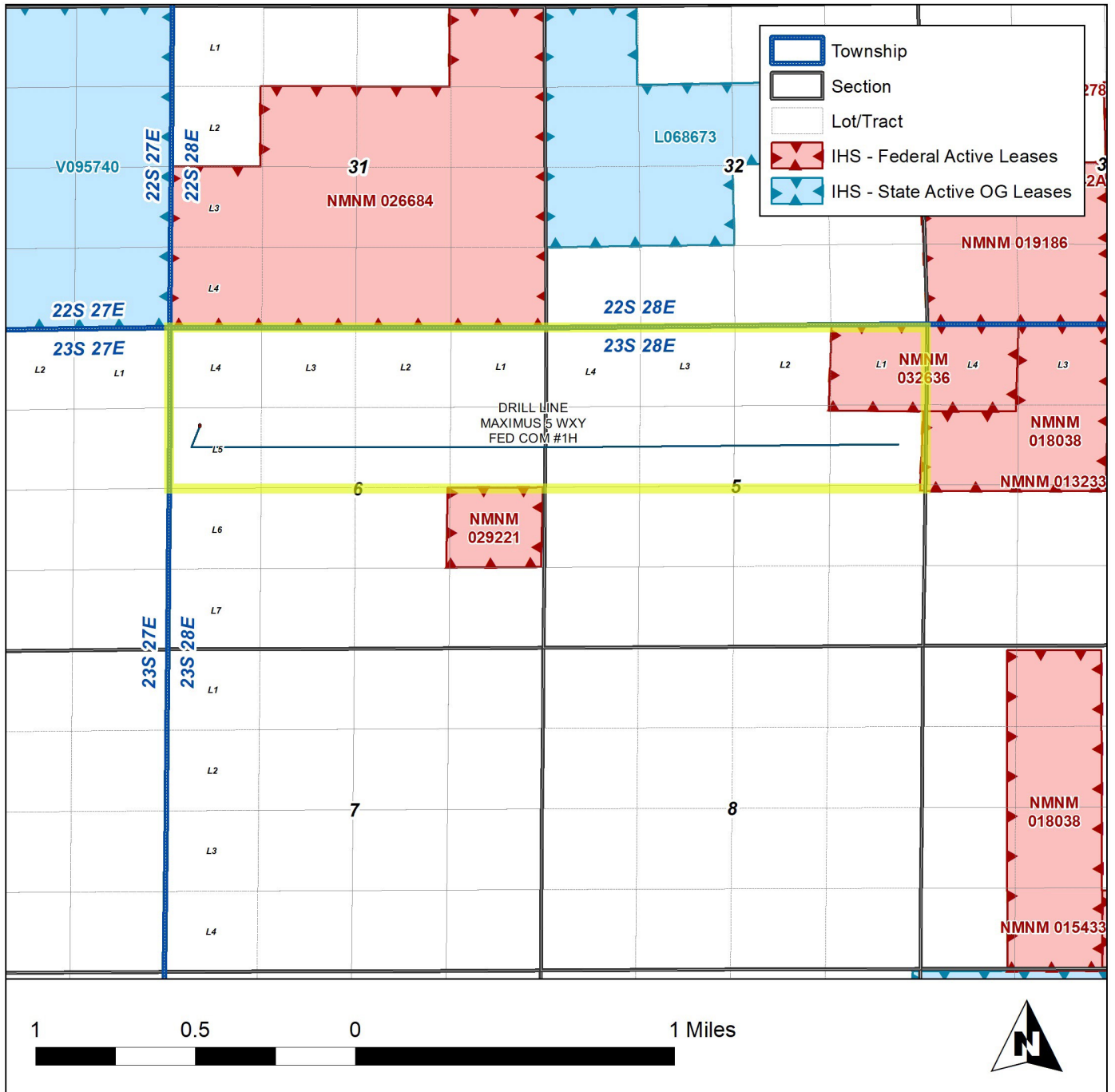
CHECKED BY: MWS

510 TRENTON ST., UNIT B,
WEST MONROE, LA 71291
(318) 323-6900

MARATHON OIL PERMIAN, LLC.

LEASE OWNERSHIP MAP

MAXIMUS 5 WXY FED COM 1H



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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

Form APD Comments

Permit 322279

PERMIT COMMENTS

Operator Name and Address: MARATHON OIL PERMIAN LLC [372098] 990 Town & Country Blvd. Houston, TX 77024		API Number: 30-015-49787
		Well: MAXIMUS 5 WXY FED COM #001H
Created By	Comment	Comment Date
mszudera	See Supporting Documents PDF attachment for the Natural Gas Management Plan, Drilling and Operations Plan, Directional Plan, and Anti-Collision Report for the proposed well.	7/28/2022

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

Form APD Conditions

Permit 322279

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MARATHON OIL PERMIAN LLC [372098] 990 Town & Country Blvd. Houston, TX 77024	API Number: 30-015-49787
	Well: MAXIMUS 5 WXY FED COM #001H

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: MARATHON OIL PERMIAN, LLC. **OGRID:** 372098 **Date:** 07 / 26 / 2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
MAXIMUS 5 WXY FED COM 1H		L5-6-23S-28E	1635 FNL 442 FWL	1736	6400	6465
MAXIMUS 5 WXY FED COM 2H		L5-6-23S-28E	1605 FNL 442 FWL	1736	3742	6465

IV. Central Delivery Point Name: MAXIMUS 5 FED COM CTB [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
MAXIMUS 5 WXY FED COM 1H		3/13/2023	4/2/2023	10/7/2023	11/11/2023	11/11/2023
MAXIMUS 5 WXY FED COM 2H		3/14/2023	4/22/2023	10/12/2023	11/11/2023	11/11/2023

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

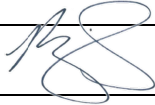
(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:



Printed Name: Melissa Szudera

Title: Sr. Regulatory Compliance Representative

E-mail Address: mszudera@marathonoil.com

Date: 07/26/2022

Phone: 713-296-3179

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:

Title:

Approval Date:

Conditions of Approval:

APPENDIX

Section 1 - Parts VI, VII, and VIII

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

- Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.
- All central tank battery equipment is designed to efficiently capture the remaining gas from the liquid phase.
- Valves and meters are designed to service without flow interruption or venting of gas.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

◆ **19.15.27.8 (A) – Venting and Flaring Of Natural Gas**

- Marathon Oil Permian's field operations are designed with the goal of minimizing flaring and preventing venting of natural gas. If capturing the gas is not possible then the gas is combusted/flared using properly sized flares or combustors in accordance with state air permit rules.

◆ **19.15.27.8 (B) – Venting and Flaring During Drilling Operations**

- A properly-sized flare stack will be located at a minimum 100' from the nearest surface hole location on the pad.
- All natural gas produced during drilling operations will be flared. Venting will only occur if there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment.

◆ **19.15.27.8 (C) – Venting and Flaring During Completion or Recompletion Operations**

- During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines.
- The CTB will have properly sized separation equipment for maximum anticipated flow rates.
- Multiple stages of separation will be used to separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet.

◆ **19.15.27.8 (D) – Venting and Flaring During Production Operations**

- During production, the well stream will be routed to the CTB where multiple stages of separation will separate gas from liquids. All gas will be routed to a sales outlet. Fluids will be routed to tanks equipped with a closed loop system that will recover any residual gas from the tanks and route such gas to a sales outlet, minimizing tank emissions.
- Flares are equipped with auto-ignition systems and continuous pilot operations.
- Automatic gauging equipment is installed on all tanks.

◆ **19.15.27.8 (E) – Performance Standards**

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- Automatic gauging equipment is installed on all tanks to minimize venting.
- All flared gas will be combusted in a flare stack that is properly sized and designed to ensure proper combustion.
- Flares are equipped with continuous pilots and auto-ignitors along with remote monitoring of the pilot status.
- Weekly AVOs and monthly LDAR inspections will be performed on all wells and facilities that produce more than 60 MCFD.
- Gas/H₂S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.

◆ 19.15.27.8 (F) – Measurement or Estimation of Vented and Flared Natural Gas

- All high pressure flared gas is measured by equipment conforming to API 14.10.
- No meter bypasses are installed.
- When metering is not practical due to low pressure/low rate, the vented or flared volume will be estimated through flare flow curves with the assistance of air emissions consultants, as necessary.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- Marathon Oil Permian will use best management practices to vent as minimally as possible during well intervention operations and downhole well maintenance.
- All natural gas is routed into the gas gathering system and directed to one of Marathon Oil Permian's multiple gas sales outlets.
- All venting events will be recorded and all start-up, shutdown, maintenance logs will be kept for control equipment.
- All control equipment will be maintained to provide highest run-time possible.
- All procedures are drafted to keep venting and flaring to the absolute minimum.

MARATHON OIL PERMIAN, LLC.
DRILLING AND OPERATIONS PLAN



WELL NAME & NUMBER:

MAXIMUS 5 WXY FED COM 1H

LOCATION:

SECTION **6**
EDDYTOWNSHIP **23S**
COUNTY,RANGE **28E****NEW MEXICO****Section 1:****GEOLOGICAL FORMATIONS**

Name of Surface Formation:

Permian

Elevation:

3045 feet

Estimated Tops of Important Geological Markers:

Formation	TVD (ft)	MD (ft)	Elevation (ft SS)	Lithologies	Mineral Resources	Producing Formation?
Rustler	N/A	N/A	N/A	Anhydrite	Brine	No
Salado	326	356	2719	Salt/Anhydrite	Brine	No
Castile	850	880	2195	Salt/Anhydrite	Brine	No
Base of Salt (BX)	2128	2158	917	Anhydrite	Brine	No
Lamar	2373	2403	672	Sandstone/Shale	None	No
Bell Canyon	2458	2488	587	Sandstone	Oil	No
Cherry Canyon	3172	3202	-127	Sandstone	Oil	No
Brushy Canyon	4314	4344	-1269	Sandstone	Oil	No
Bone Spring Lime	5814	5844	-2769	Limestone	None	No
Upper Avalon Shale	5854	5884	-2809	Shale	Oil	Yes
1st Bone Spring Sand	6825	6855	-3780	Sandstone	Oil	Yes
2nd Bone Spring Carbonate	7125	7155	-4080	Limestone/Shale	None	No
2nd Bone Spring Sand	7570	7600	-4525	Sandstone	Oil	Yes
3rd Bone Spring Carbonate	7781	7811	-4736	Limestone	Oil	No
3rd Bone Spring Sand	8899	8929	-5854	Sandstone	Oil	Yes
Wolfcamp	9196	9226	-6151	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp X Sand	9225	9255	-6180	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp Y Sand	9290	9320	-6245	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp A	9340	9370	-6295	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp B	9551	9581	-6506	Sandstone/Shale/Carbonates	Natural Gas / Oil	Possible
Wolfcamp C	9794	9824	-6749	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes
Wolfcamp D	10067	10097	-7022	Sandstone/Shale/Carbonates	Natural Gas / Oil	Yes

Section 2:**BLOWOUT PREVENTER TESTING PROCEDURE**

Pressure Rating (PSI):

10M

Rating Depth:

10000

Equipment:

13 5/8 BOP Annular (5,000 psi WP) and BOP Stack (10,000 psi WP) will be installed and tested before drilling all holes.

Requesting Variance?

Yes

Variance Request:

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

Testing Procedure:

BOP/BOPE will be tested to 250 psi low and a high of 100% WP for the Annular and 5,000psi for the BOP Stacking before drilling 12.25" intermediate hole, 10,000psi for the BOP Stacking before drilling the 8.75" production hole. Testing will be conducted by an independent service company per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the Equipment Description above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock, full opening safety valve / inside BOP and choke lines and choke manifold. See attached schematics.

Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i. A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. See attached schematic.

Marathon Oil Permian LLC.

Drilling & Operations Plan - Page 2 of 3

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	450	0	450	3045	2595	54.5	J55	BTC	1.00	1.15	BUOY	1.30	BUOY	1.30
Intermediate	12.25	9.625	0	2418	0	2388	3045	657	40	P110HC	BTC	1.00	1.15	BUOY	1.30	BUOY	1.30
Production	8.75	5.5	0	19356	0	9490	3045	-6445	23	P110HC	TLW	1.00	1.15	BUOY	1.30	BUOY	1.30
All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h												Safety Factors will Meet or Exceed					

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

Yes or No

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

Section 4:**CEMENT PROGRAM**

String Type	Lead/Tail	Top MD	Bottom MD	Quantity (sks)	Yield (ft³/sks)	Density (ppg)	Slurry Volume (ft³)	Excess (%)	Cement Type	Additives
Surface	Lead	0	150	84	2.12	12.5	179	25	Class C	Extender, Accelerator, LCM
Surface	Tail	150	450	197	1.32	14.8	260	25	Class C	Accelerator
Intermediate	Lead	0	1918	357	2.18	12.4	779	25	Class C	Extender, Accelerator, LCM
Intermediate	Tail	1918	2418	147	1.33	14.8	196	25	Class C	Retarder
Production	Tail	2118	19356	3280	1.68	13	5511	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

Marathon Oil Permian LLC.

Drilling & Operations Plan - Page 3 of 3

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	450	Water Based Mud	8.4	8.8
450	2418	Brine or Oil Based Mud	9.2	10.2
2418	19356	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: 6169 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.



PHOENIX
TECHNOLOGY SERVICES

Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME)

Maximus 5 WXY Fed Com

Maximus 5 WXY Fed Com 1H

OH

Plan 1 07-22-22

Anticollision Report

22 July, 2022





Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Reference	Plan 1 07-22-22		
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:	Maximum centre distance of 50,000.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/22/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,355.56	Plan 1 07-22-22 (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						
Decimus 5 WXY Fed Com						
Decimus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22	8,799.52	8,775.64	1,343.28	1,312.62	43.807	CC
Decimus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22	19,300.00	19,247.64	1,413.74	951.10	3.056	ES, SF
Larry Wolfish 01-23S-27E RB						
204H - OH / 64293 - Surveys (Patterson 813)	9,094.20	11,381.79	542.93	479.02	8.496	CC
204H - OH / 64293 - Surveys (Patterson 813)	9,100.00	11,381.57	542.98	478.90	8.473	ES
204H - OH / 64293 - Surveys (Patterson 813)	9,150.00	11,379.70	548.47	482.98	8.375	SF
Maximus 5 WXY Fed Com						
Maximus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22	1,300.00	1,300.00	29.95	21.05	3.365	CC, ES
Maximus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22	19,355.56	19,383.25	1,319.59	853.68	2.832	SF
Maximus/Decimus Offsets						
Julius 1 - OH - Surveys	12,691.22	9,343.17	461.18	174.96	1.611	CC
Julius 1 - OH - Surveys	12,700.00	9,343.34	461.26	174.89	1.611	ES, SF
Kelly 5 Com 1 - OH - Surveys	17,721.74	9,431.50	1,312.72	882.43	3.051	CC, ES
Kelly 5 Com 1 - OH - Surveys	17,800.00	9,433.20	1,315.05	883.37	3.046	SF
Swearingen A 1 - OH - Surveys	17,645.46	9,405.63	1,363.15	989.22	3.645	CC
Swearingen A 1 - OH - Surveys	17,700.00	9,406.58	1,364.24	989.12	3.637	ES, SF
Zeus 1 - OH - Surveys	15,045.51	9,390.20	169.05	-110.45	0.605	Level 3, CC, ES, SF

Offset Design:	Decimus 5 WXY Fed Com - Decimus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22										Offset Site Error:	0.00 usft
Survey Program:	0-MWD+HRGM										Offset Well Error:	1.00 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Rule Assigned:	Distance	Minimum Separation	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
0.00	0.00	0.00	1.00	1.00	1.00	-175.163	-1,870.82	-158.31	1,877.50			
100.00	100.00	99.00	100.00	1.13	1.13	-175.163	-1,870.82	-158.31	1,877.50	1,875.24	2.26	829.322
200.00	200.00	199.00	200.00	1.66	1.65	-175.163	-1,870.82	-158.31	1,877.50	1,874.19	3.31	566.760
300.00	300.00	299.00	300.00	2.06	2.05	-175.163	-1,870.82	-158.31	1,877.50	1,873.39	4.11	456.516
400.00	400.00	399.00	400.00	2.39	2.39	-175.163	-1,870.82	-158.31	1,877.50	1,872.72	4.79	392.330
500.00	500.00	499.00	500.00	2.69	2.69	-175.163	-1,870.82	-158.31	1,877.50	1,872.12	5.38	349.001
600.00	600.00	599.00	600.00	2.96	2.96	-175.163	-1,870.82	-158.31	1,877.50	1,871.58	5.92	317.207
700.00	700.00	699.00	700.00	3.21	3.21	-175.163	-1,870.82	-158.31	1,877.50	1,871.09	6.42	292.581
800.00	800.00	799.00	800.00	3.44	3.44	-175.163	-1,870.82	-158.31	1,877.50	1,870.62	6.88	272.770

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



Anticollision Report



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Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Decimus 5 WXY Fed Com - Decimus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Rule Assigned:													
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	Warning
900.00	900.00	899.00	900.00	3.66	3.66	-175.163	-1,870.82	-158.31	1,877.50	1,870.18	7.32	256.379	
1,000.00	1,000.00	999.00	1,000.00	3.87	3.87	-175.163	-1,870.82	-158.31	1,877.50	1,869.76	7.74	242.519	
1,100.00	1,100.00	1,099.00	1,100.00	4.07	4.07	-175.163	-1,870.82	-158.31	1,877.50	1,869.36	8.14	230.595	
1,200.00	1,200.00	1,199.00	1,200.00	4.26	4.26	-175.163	-1,870.82	-158.31	1,877.50	1,868.98	8.53	220.193	
1,300.00	1,300.00	1,299.00	1,300.00	4.45	4.45	-175.163	-1,870.82	-158.31	1,877.50	1,868.61	8.90	211.011	
1,400.00	1,399.98	1,449.09	1,450.02	4.72	4.87	-43.877	-1,868.55	-161.46	1,874.92	1,865.50	9.42	198.982	
1,500.00	1,499.84	1,598.86	1,599.32	4.99	5.32	-43.843	-1,861.72	-170.96	1,867.15	1,857.22	9.93	188.056	
1,600.00	1,599.45	1,747.02	1,746.21	5.27	5.79	-43.786	-1,850.49	-186.57	1,854.23	1,843.78	10.45	177.374	
1,700.00	1,698.70	1,892.82	1,889.60	5.57	6.29	-43.707	-1,835.12	-207.92	1,836.27	1,825.27	11.01	166.838	
1,800.00	1,797.47	1,992.53	1,987.13	5.89	6.59	-43.783	-1,823.02	-224.75	1,814.49	1,803.01	11.48	158.046	
1,899.79	1,895.42	2,089.23	2,081.72	6.23	6.89	-43.974	-1,811.27	-241.07	1,790.33	1,778.35	11.98	149.493	
1,900.00	1,895.62	2,089.43	2,081.91	6.23	6.89	-43.974	-1,811.25	-241.10	1,790.27	1,778.30	11.98	149.477	
2,000.00	1,993.44	2,186.08	2,176.45	6.51	7.21	-43.856	-1,799.51	-257.42	1,764.85	1,752.39	12.46	141.659	
2,100.00	2,091.26	2,282.73	2,270.98	6.81	7.54	-43.734	-1,787.77	-273.73	1,739.43	1,726.47	12.96	134.188	
2,200.00	2,189.07	2,379.38	2,365.52	7.13	7.88	-43.609	-1,776.03	-290.05	1,714.03	1,700.54	13.49	127.061	
2,300.00	2,286.89	2,476.03	2,460.06	7.47	8.24	-43.480	-1,764.29	-306.36	1,688.62	1,674.59	14.04	120.295	
2,400.00	2,384.70	2,572.68	2,554.59	7.82	8.60	-43.347	-1,752.55	-322.68	1,663.23	1,648.63	14.60	113.896	
2,500.00	2,482.52	2,669.33	2,649.13	8.18	8.98	-43.210	-1,740.81	-338.99	1,637.85	1,622.66	15.18	107.861	
2,600.00	2,580.34	2,765.98	2,743.67	8.56	9.34	-43.069	-1,729.07	-355.30	1,612.47	1,596.71	15.77	102.275	
2,700.00	2,678.15	2,845.52	2,821.62	8.94	9.67	-42.972	-1,719.82	-368.17	1,587.54	1,571.22	16.32	97.278	
2,800.00	2,775.97	2,922.21	2,897.15	9.33	10.01	-42.944	-1,712.07	-378.94	1,563.86	1,546.97	16.89	92.599	
2,900.00	2,873.79	3,000.00	2,974.09	9.73	10.34	-42.985	-1,705.42	-388.18	1,541.44	1,523.98	17.45	88.310	
3,000.00	2,971.60	3,076.89	3,050.43	10.14	10.66	-43.095	-1,700.04	-395.65	1,520.30	1,502.29	18.01	84.429	
3,100.00	3,069.42	3,154.65	3,127.85	10.55	10.97	-43.281	-1,695.83	-401.51	1,500.47	1,481.92	18.55	80.880	
3,200.00	3,167.23	3,232.55	3,205.58	10.97	11.26	-43.543	-1,692.84	-405.67	1,481.98	1,462.90	19.09	77.649	
3,300.00	3,265.05	3,310.47	3,283.44	11.39	11.52	-43.883	-1,691.08	-408.11	1,464.88	1,445.28	19.60	74.725	
3,400.00	3,362.87	3,389.90	3,362.87	11.81	11.64	-44.310	-1,690.56	-408.83	1,449.22	1,429.14	20.08	72.184	
3,500.00	3,460.68	3,487.72	3,460.68	12.24	11.71	-44.884	-1,690.56	-408.83	1,434.26	1,413.73	20.53	69.877	
3,600.00	3,558.50	3,585.54	3,558.50	12.68	11.79	-45.469	-1,690.56	-408.83	1,419.45	1,398.47	20.98	67.657	
3,700.00	3,656.32	3,683.35	3,656.32	13.11	11.86	-46.067	-1,690.56	-408.83	1,404.78	1,383.35	21.43	65.542	
3,800.00	3,754.13	3,781.17	3,754.13	13.55	11.94	-46.677	-1,690.56	-408.83	1,390.28	1,368.39	21.88	63.527	
3,831.13	3,784.58	3,811.62	3,784.58	13.67	11.96	-46.869	-1,690.56	-408.83	1,385.79	1,363.78	22.01	62.959	
3,900.00	3,852.11	3,879.15	3,852.11	13.97	12.02	-47.137	-1,690.56	-408.83	1,376.49	1,354.19	22.30	61.716	
4,000.00	3,950.70	3,977.74	3,950.70	14.43	12.09	-47.478	-1,690.56	-408.83	1,365.07	1,342.33	22.74	60.022	
4,100.00	4,049.82	4,076.85	4,049.82	14.86	12.17	-47.755	-1,690.56	-408.83	1,356.09	1,332.94	23.16	58.566	
4,200.00	4,149.33	4,176.37	4,149.33	15.28	12.24	-47.963	-1,690.56	-408.83	1,349.51	1,325.97	23.54	57.334	
4,300.00	4,249.13	4,276.16	4,249.13	15.65	12.32	-48.100	-1,690.56	-408.83	1,345.28	1,321.39	23.89	56.319	
4,400.00	4,349.08	4,376.12	4,349.08	15.97	12.40	-48.161	-1,690.56	-408.83	1,343.40	1,319.21	24.19	55.536	
4,430.92	4,380.00	4,407.04	4,380.00	16.00	12.42	-179.440	-1,690.56	-408.83	1,343.28	1,319.04	24.24	55.416	
4,500.00	4,449.08	4,476.12	4,449.08	16.02	12.48	-179.440	-1,690.56	-408.83	1,343.28	1,318.96	24.33	55.222	
4,600.00	4,549.08	4,576.12	4,549.08	16.06	12.55	-179.440	-1,690.56	-408.83	1,343.28	1,318.81	24.47	54.894	
4,700.00	4,649.08	4,676.12	4,649.08	16.10	12.63	-179.440	-1,690.56	-408.83	1,343.28	1,318.67	24.62	54.570	
4,800.00	4,749.08	4,776.12	4,749.08	16.15	12.71	-179.440	-1,690.56	-408.83	1,343.28	1,318.52	24.76	54.250	
4,900.00	4,849.08	4,876.12	4,849.08	16.19	12.79	-179.440	-1,690.56	-408.83	1,343.28	1,318.38	24.91	53.933	
5,000.00	4,949.08	4,976.12	4,949.08	16.24	12.86	-179.440	-1,690.56	-408.83	1,343.28	1,318.23	25.05	53.619	
5,100.00	5,049.08	5,076.12	5,049.08	16.28	12.94	-179.440	-1,690.56	-408.83	1,343.28	1,318.09	25.20	53.309	
5,200.00	5,149.08	5,176.12	5,149.08	16.33	13.02	-179.440	-1,690.56	-408.83	1,343.28	1,317.94	25.34	53.002	
5,300.00	5,249.08	5,276.12	5,249.08	16.37	13.10	-179.440	-1,690.56	-408.83	1,343.28	1,317.79	25.49	52.699	
5,400.00	5,349.08	5,376.12	5,349.08	16.42	13.18	-179.440	-1,690.56	-408.83	1,343.28	1,317.65	25.64	52.398	
5,500.00	5,449.08	5,476.12	5,449.08	16.46	13.25	-179.440	-1,690.56	-408.83	1,343.28	1,317.50	25.78	52.101	
5,600.00	5,549.08	5,576.12	5,549.08	16.51	13.33	-179.440	-1,690.56	-408.83	1,343.28	1,317.36	25.93	51.807	
5,700.00	5,649.08	5,676.12	5,649.08	16.55	13.41	-179.440	-1,690.56	-408.83	1,343.28	1,317.21	26.08	51.516	

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Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Decimus 5 WXY Fed Com - Decimus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 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)			
5,800.00	5,749.08	5,776.12	5,749.08	16.60	13.49	-179.440	-1,690.56	-408.83	1,343.28	1,317.06	26.22	51.228	
5,900.00	5,849.08	5,876.12	5,849.08	16.65	13.57	-179.440	-1,690.56	-408.83	1,343.28	1,316.92	26.37	50.943	
6,000.00	5,949.08	5,976.12	5,949.08	16.70	13.64	-179.440	-1,690.56	-408.83	1,343.28	1,316.77	26.52	50.661	
6,100.00	6,049.08	6,076.12	6,049.08	16.74	13.72	-179.440	-1,690.56	-408.83	1,343.28	1,316.62	26.66	50.382	
6,200.00	6,149.08	6,176.12	6,149.08	16.79	13.80	-179.440	-1,690.56	-408.83	1,343.28	1,316.48	26.81	50.105	
6,300.00	6,249.08	6,276.12	6,249.08	16.84	13.88	-179.440	-1,690.56	-408.83	1,343.28	1,316.33	26.96	49.832	
6,400.00	6,349.08	6,376.12	6,349.08	16.89	13.96	-179.440	-1,690.56	-408.83	1,343.28	1,316.18	27.10	49.561	
6,500.00	6,449.08	6,476.12	6,449.08	16.94	14.04	-179.440	-1,690.56	-408.83	1,343.28	1,316.03	27.25	49.293	
6,600.00	6,549.08	6,576.12	6,549.08	16.98	14.11	-179.440	-1,690.56	-408.83	1,343.28	1,315.89	27.40	49.027	
6,700.00	6,649.08	6,676.12	6,649.08	17.03	14.19	-179.440	-1,690.56	-408.83	1,343.28	1,315.74	27.55	48.765	
6,800.00	6,749.08	6,776.12	6,749.08	17.08	14.27	-179.440	-1,690.56	-408.83	1,343.28	1,315.59	27.69	48.504	
6,900.00	6,849.08	6,876.12	6,849.08	17.13	14.35	-179.440	-1,690.56	-408.83	1,343.28	1,315.44	27.84	48.247	
7,000.00	6,949.08	6,976.12	6,949.08	17.18	14.43	-179.440	-1,690.56	-408.83	1,343.28	1,315.29	27.99	47.992	
7,100.00	7,049.08	7,076.12	7,049.08	17.23	14.51	-179.440	-1,690.56	-408.83	1,343.28	1,315.15	28.14	47.739	
7,200.00	7,149.08	7,176.12	7,149.08	17.28	14.58	-179.440	-1,690.56	-408.83	1,343.28	1,315.00	28.29	47.489	
7,300.00	7,249.08	7,276.12	7,249.08	17.33	14.66	-179.440	-1,690.56	-408.83	1,343.28	1,314.85	28.43	47.241	
7,400.00	7,349.08	7,376.12	7,349.08	17.38	14.74	-179.440	-1,690.56	-408.83	1,343.28	1,314.70	28.58	46.996	
7,500.00	7,449.08	7,476.12	7,449.08	17.43	14.82	-179.440	-1,690.56	-408.83	1,343.28	1,314.55	28.73	46.753	
7,600.00	7,549.08	7,576.12	7,549.08	17.49	14.90	-179.440	-1,690.56	-408.83	1,343.28	1,314.40	28.88	46.512	
7,700.00	7,649.08	7,676.12	7,649.08	17.54	14.98	-179.440	-1,690.56	-408.83	1,343.28	1,314.26	29.03	46.273	
7,800.00	7,749.08	7,776.12	7,749.08	17.59	15.06	-179.440	-1,690.56	-408.83	1,343.28	1,314.11	29.18	46.037	
7,900.00	7,849.08	7,876.12	7,849.08	17.64	15.14	-179.440	-1,690.56	-408.83	1,343.28	1,313.96	29.33	45.803	
8,000.00	7,949.08	7,976.12	7,949.08	17.69	15.21	-179.440	-1,690.56	-408.83	1,343.28	1,313.81	29.48	45.572	
8,100.00	8,049.08	8,076.12	8,049.08	17.75	15.29	-179.440	-1,690.56	-408.83	1,343.28	1,313.66	29.63	45.342	
8,200.00	8,149.08	8,176.12	8,149.08	17.80	15.37	-179.440	-1,690.56	-408.83	1,343.28	1,313.51	29.77	45.115	
8,300.00	8,249.08	8,276.12	8,249.08	17.85	15.45	-179.440	-1,690.56	-408.83	1,343.28	1,313.36	29.92	44.889	
8,400.00	8,349.08	8,376.12	8,349.08	17.90	15.53	-179.440	-1,690.56	-408.83	1,343.28	1,313.21	30.07	44.666	
8,500.00	8,449.08	8,476.12	8,449.08	17.96	15.61	-179.440	-1,690.56	-408.83	1,343.28	1,313.06	30.22	44.445	
8,600.00	8,549.08	8,576.12	8,549.08	18.01	15.69	-179.440	-1,690.56	-408.83	1,343.28	1,312.91	30.37	44.226	
8,700.00	8,649.08	8,676.12	8,649.08	18.06	15.77	-179.440	-1,690.56	-408.83	1,343.28	1,312.76	30.52	44.009	
8,799.52	8,748.60	8,775.64	8,748.60	18.12	15.84	-179.440	-1,690.56	-408.83	1,343.28	1,312.62	30.66	43.807 CC	
8,800.00	8,749.08	8,776.12	8,749.08	18.12	15.84	90.998	-1,690.56	-408.83	1,343.28	1,312.62	30.66	43.807	
8,850.00	8,799.02	8,827.23	8,800.15	18.11	15.82	91.021	-1,690.56	-407.14	1,343.31	1,312.63	30.68	43.787	
8,900.00	8,848.57	8,878.57	8,851.10	18.03	15.79	91.038	-1,690.55	-400.92	1,343.36	1,312.70	30.66	43.813	
8,950.00	8,897.36	8,929.96	8,901.33	17.94	15.75	91.047	-1,690.55	-390.14	1,343.44	1,312.80	30.63	43.859	
9,000.00	8,945.01	8,981.38	8,950.42	17.84	15.70	91.048	-1,690.53	-374.91	1,343.54	1,312.95	30.59	43.917	
9,050.00	8,991.18	9,032.82	8,997.96	17.75	15.65	91.041	-1,690.52	-355.32	1,343.67	1,313.12	30.55	43.976	
9,100.00	9,035.50	9,084.26	9,043.56	17.65	15.61	91.025	-1,690.50	-331.55	1,343.83	1,313.30	30.53	44.019	
9,150.00	9,077.63	9,135.70	9,086.85	17.56	15.57	91.002	-1,690.48	-303.79	1,344.02	1,313.49	30.53	44.025	
9,200.00	9,117.26	9,187.12	9,127.46	17.49	15.55	90.971	-1,690.45	-272.27	1,344.22	1,313.65	30.57	43.971	
9,250.00	9,154.08	9,238.52	9,165.06	17.43	15.56	90.932	-1,690.42	-237.25	1,344.45	1,313.77	30.67	43.829	
9,300.00	9,187.82	9,289.87	9,199.34	17.40	15.59	90.887	-1,690.39	-199.04	1,344.70	1,313.83	30.86	43.571	
9,350.00	9,218.22	9,341.18	9,230.04	17.41	15.67	90.834	-1,690.36	-157.96	1,344.96	1,313.81	31.15	43.171	
9,400.00	9,245.04	9,392.42	9,256.92	17.47	15.81	90.775	-1,690.32	-114.35	1,345.24	1,313.67	31.57	42.614	
9,450.00	9,268.08	9,443.59	9,279.76	17.58	16.03	90.710	-1,690.29	-68.58	1,345.54	1,313.42	32.12	41.893	
9,500.00	9,287.17	9,494.68	9,298.40	17.76	16.34	90.639	-1,690.25	-21.03	1,345.85	1,313.03	32.81	41.014	
9,550.00	9,302.16	9,545.68	9,312.71	18.02	16.74	90.564	-1,690.21	27.90	1,346.16	1,312.51	33.66	39.999	
9,600.00	9,312.94	9,596.59	9,322.61	18.35	17.24	90.484	-1,690.17	77.82	1,346.49	1,311.85	34.64	38.876	
9,650.00	9,319.42	9,647.39	9,328.02	18.76	17.80	90.400	-1,690.13	128.32	1,346.82	1,311.08	35.74	37.683	
9,689.52	9,321.47	9,687.27	9,329.30	19.14	18.29	90.340	-1,690.10	168.18	1,347.09	1,310.40	36.69	36.718	
9,700.00	9,321.66	9,697.75	9,329.48	19.25	18.42	90.340	-1,690.09	178.65	1,347.16	1,310.21	36.95	36.463	
9,800.00	9,323.40	9,797.75	9,331.23	20.40	19.83	90.340	-1,690.01	278.64	1,347.84	1,308.17	39.67	33.978	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Decimus 5 WXY Fed Com - Decimus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	9,325.15	9,897.75	9,332.98	21.76	21.40	90.340	-1,689.93	378.62	1,348.53	1,305.81	42.71	31.571	
10,000.00	9,326.89	9,997.75	9,334.72	23.28	23.09	90.339	-1,689.85	478.60	1,349.21	1,303.19	46.02	29.318	
10,100.00	9,328.64	10,097.74	9,336.47	24.93	24.89	90.339	-1,689.77	578.58	1,349.89	1,300.36	49.54	27.250	
10,200.00	9,330.38	10,197.74	9,338.21	26.69	26.77	90.339	-1,689.69	678.57	1,350.58	1,297.36	53.22	25.377	
10,300.00	9,332.13	10,297.74	9,339.96	28.53	28.71	90.339	-1,689.61	778.55	1,351.26	1,294.22	57.04	23.690	
10,400.00	9,333.87	10,397.74	9,341.70	30.44	30.70	90.339	-1,689.53	878.53	1,351.95	1,290.98	60.97	22.175	
10,500.00	9,335.62	10,497.73	9,343.45	32.40	32.73	90.339	-1,689.44	978.51	1,352.63	1,287.65	64.99	20.814	
10,600.00	9,337.36	10,597.73	9,345.19	34.41	34.80	90.338	-1,689.36	1,078.49	1,353.32	1,284.24	69.08	19.591	
10,700.00	9,339.11	10,697.73	9,346.94	36.45	36.90	90.338	-1,689.28	1,178.48	1,354.00	1,280.77	73.23	18.489	
10,800.00	9,340.85	10,797.73	9,348.68	38.52	39.02	90.338	-1,689.20	1,278.46	1,354.69	1,277.25	77.44	17.493	
10,900.00	9,342.60	10,897.72	9,350.43	40.62	41.16	90.338	-1,689.12	1,378.44	1,355.37	1,273.68	81.69	16.591	
11,000.00	9,344.34	10,997.72	9,352.17	42.74	43.32	90.338	-1,689.04	1,478.42	1,356.05	1,270.08	85.98	15.772	
11,100.00	9,346.09	11,097.72	9,353.92	44.88	45.49	90.338	-1,688.96	1,578.41	1,356.74	1,266.44	90.30	15.025	
11,200.00	9,347.83	11,197.72	9,355.66	47.04	47.67	90.337	-1,688.88	1,678.39	1,357.42	1,262.78	94.65	14.342	
11,300.00	9,349.58	11,297.72	9,357.41	49.21	49.87	90.337	-1,688.80	1,778.37	1,358.11	1,259.09	99.02	13.716	
11,400.00	9,351.32	11,397.71	9,359.15	51.39	52.07	90.337	-1,688.72	1,878.35	1,358.79	1,255.38	103.41	13.140	
11,500.00	9,353.07	11,497.71	9,360.90	53.58	54.29	90.337	-1,688.64	1,978.34	1,359.48	1,251.66	107.82	12.609	
11,600.00	9,354.82	11,597.71	9,362.64	55.79	56.51	90.337	-1,688.56	2,078.32	1,360.16	1,247.91	112.25	12.118	
11,700.00	9,356.56	11,697.71	9,364.39	58.00	58.74	90.336	-1,688.48	2,178.30	1,360.85	1,244.16	116.69	11.662	
11,800.00	9,358.31	11,797.70	9,366.13	60.21	60.97	90.336	-1,688.40	2,278.28	1,361.53	1,240.39	121.14	11.239	
11,900.00	9,360.05	11,897.70	9,367.88	62.44	63.21	90.336	-1,688.32	2,378.27	1,362.21	1,236.61	125.61	10.845	
12,000.00	9,361.80	11,997.70	9,369.62	64.67	65.46	90.336	-1,688.24	2,478.25	1,362.90	1,232.81	130.08	10.477	
12,100.00	9,363.54	12,097.70	9,371.37	66.90	67.70	90.336	-1,688.16	2,578.23	1,363.58	1,229.01	134.57	10.133	
12,200.00	9,365.29	12,197.69	9,373.11	69.14	69.96	90.336	-1,688.08	2,678.21	1,364.27	1,225.21	139.06	9.810	
12,300.00	9,367.03	12,297.69	9,374.86	71.38	72.21	90.335	-1,688.00	2,778.20	1,364.95	1,221.39	143.56	9.508	
12,400.00	9,368.78	12,397.69	9,376.61	73.63	74.47	90.335	-1,687.92	2,878.18	1,365.64	1,217.57	148.07	9.223	
12,500.00	9,370.52	12,497.69	9,378.35	75.88	76.73	90.335	-1,687.84	2,978.16	1,366.32	1,213.74	152.59	8.954	
12,600.00	9,372.27	12,597.68	9,380.10	78.14	79.00	90.335	-1,687.76	3,078.14	1,367.00	1,209.90	157.10	8.701	
12,700.00	9,374.01	12,697.68	9,381.84	80.39	81.26	90.335	-1,687.68	3,178.13	1,367.69	1,206.06	161.63	8.462	
12,800.00	9,375.76	12,797.68	9,383.59	82.65	83.53	90.335	-1,687.60	3,278.11	1,368.37	1,202.21	166.16	8.235	
12,900.00	9,377.50	12,897.68	9,385.33	84.92	85.80	90.334	-1,687.52	3,378.09	1,369.06	1,198.36	170.69	8.021	
13,000.00	9,379.25	12,997.68	9,387.08	87.18	88.07	90.334	-1,687.43	3,478.07	1,369.74	1,194.51	175.23	7.817	
13,100.00	9,380.99	13,097.67	9,388.82	89.45	90.35	90.334	-1,687.35	3,578.05	1,370.43	1,190.65	179.77	7.623	
13,200.00	9,382.74	13,197.67	9,390.57	91.72	92.62	90.334	-1,687.27	3,678.04	1,371.11	1,186.79	184.32	7.439	
13,300.00	9,384.48	13,297.67	9,392.31	93.99	94.90	90.334	-1,687.19	3,778.02	1,371.80	1,182.93	188.87	7.263	
13,400.00	9,386.23	13,397.67	9,394.06	96.26	97.18	90.334	-1,687.11	3,878.00	1,372.48	1,179.06	193.42	7.096	
13,500.00	9,387.97	13,497.66	9,395.80	98.53	99.46	90.334	-1,687.03	3,977.98	1,373.16	1,175.19	197.98	6.936	
13,600.00	9,389.72	13,597.66	9,397.55	100.81	101.74	90.333	-1,686.95	4,077.97	1,373.85	1,171.32	202.53	6.783	
13,700.00	9,391.47	13,697.66	9,399.29	103.09	104.02	90.333	-1,686.87	4,177.95	1,374.53	1,167.44	207.09	6.637	
13,800.00	9,393.21	13,797.66	9,401.04	105.36	106.31	90.333	-1,686.79	4,277.93	1,375.22	1,163.56	211.65	6.497	
13,900.00	9,394.96	13,897.65	9,402.78	107.64	108.59	90.333	-1,686.71	4,377.91	1,375.90	1,159.68	216.22	6.363	
14,000.00	9,396.70	13,997.65	9,404.53	109.92	110.88	90.333	-1,686.63	4,477.90	1,376.59	1,155.80	220.78	6.235	
14,100.00	9,398.45	14,097.65	9,406.27	112.21	113.16	90.333	-1,686.55	4,577.88	1,377.27	1,151.92	225.35	6.112	
14,200.00	9,400.19	14,197.65	9,408.02	114.49	115.45	90.332	-1,686.47	4,677.86	1,377.96	1,148.03	229.92	5.993	
14,300.00	9,401.94	14,297.64	9,409.76	116.77	117.74	90.332	-1,686.39	4,777.84	1,378.64	1,144.15	234.49	5.879	
14,400.00	9,403.68	14,397.64	9,411.51	119.06	120.03	90.332	-1,686.31	4,877.83	1,379.32	1,140.26	239.07	5.770	
14,500.00	9,405.43	14,497.64	9,413.25	121.34	122.32	90.332	-1,686.23	4,977.81	1,380.01	1,136.37	243.64	5.664	
14,600.00	9,407.17	14,597.64	9,415.00	123.63	124.61	90.332	-1,686.15	5,077.79	1,380.69	1,132.48	248.22	5.562	
14,700.00	9,408.92	14,697.64	9,416.74	125.91	126.90	90.332	-1,686.07	5,177.77	1,381.38	1,128.58	252.79	5.464	
14,800.00	9,410.66	14,797.63	9,418.49	128.20	129.19	90.331	-1,685.99	5,277.76	1,382.06	1,124.69	257.37	5.370	
14,900.00	9,412.41	14,897.63	9,420.24	130.49	131.48	90.331	-1,685.91	5,377.74	1,382.75	1,120.79	261.95	5.279	
15,000.00	9,414.15	14,997.63	9,421.98	132.78	133.77	90.331	-1,685.83	5,477.72	1,383.43	1,116.90	266.53	5.190	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Decimus 5 WXY Fed Com - Decimus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 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)			
15,100.00	9,415.90	15,097.63	9,423.73	135.06	136.06	90.331	-1,685.75	5,577.70	1,384.11	1,113.00	271.12	5.105	
15,200.00	9,417.64	15,197.62	9,425.47	137.35	138.36	90.331	-1,685.67	5,677.69	1,384.80	1,109.10	275.70	5.023	
15,300.00	9,419.39	15,297.62	9,427.22	139.64	140.65	90.331	-1,685.59	5,777.67	1,385.48	1,105.20	280.28	4.943	
15,400.00	9,421.13	15,397.62	9,428.96	141.94	142.94	90.330	-1,685.51	5,877.65	1,386.17	1,101.30	284.87	4.866	
15,500.00	9,422.88	15,497.62	9,430.71	144.23	145.24	90.330	-1,685.43	5,977.63	1,386.85	1,097.40	289.45	4.791	
15,600.00	9,424.62	15,597.61	9,432.45	146.52	147.53	90.330	-1,685.34	6,077.61	1,387.54	1,093.50	294.04	4.719	
15,700.00	9,426.37	15,697.61	9,434.20	148.81	149.83	90.330	-1,685.26	6,177.60	1,388.22	1,089.59	298.63	4.649	
15,800.00	9,428.12	15,797.61	9,435.94	151.10	152.12	90.330	-1,685.18	6,277.58	1,388.91	1,085.69	303.21	4.581	
15,900.00	9,429.86	15,897.61	9,437.69	153.40	154.42	90.330	-1,685.10	6,377.56	1,389.59	1,081.79	307.80	4.515	
16,000.00	9,431.61	15,997.61	9,439.43	155.69	156.72	90.329	-1,685.02	6,477.54	1,390.27	1,077.88	312.39	4.450	
16,100.00	9,433.35	16,097.60	9,441.18	157.98	159.01	90.329	-1,684.94	6,577.53	1,390.96	1,073.98	316.98	4.388	
16,200.00	9,435.10	16,197.60	9,442.92	160.28	161.31	90.329	-1,684.86	6,677.51	1,391.64	1,070.07	321.57	4.328	
16,300.00	9,436.84	16,297.60	9,444.67	162.57	163.61	90.329	-1,684.78	6,777.49	1,392.33	1,066.16	326.17	4.269	
16,400.00	9,438.59	16,397.60	9,446.41	164.87	165.90	90.329	-1,684.70	6,877.47	1,393.01	1,062.25	330.76	4.212	
16,500.00	9,440.33	16,497.59	9,448.16	167.16	168.20	90.329	-1,684.62	6,977.46	1,393.70	1,058.35	335.35	4.156	
16,600.00	9,442.08	16,597.59	9,449.90	169.46	170.50	90.328	-1,684.54	7,077.44	1,394.38	1,054.44	339.94	4.102	
16,700.00	9,443.82	16,697.59	9,451.65	171.75	172.80	90.328	-1,684.46	7,177.42	1,395.07	1,050.53	344.54	4.049	
16,800.00	9,445.57	16,797.59	9,453.39	174.05	175.10	90.328	-1,684.38	7,277.40	1,395.75	1,046.62	349.13	3.998	
16,900.00	9,447.31	16,897.58	9,455.14	176.34	177.39	90.328	-1,684.30	7,377.39	1,396.43	1,042.71	353.73	3.948	
17,000.00	9,449.06	16,997.58	9,456.88	178.64	179.69	90.328	-1,684.22	7,477.37	1,397.12	1,038.80	358.32	3.899	
17,100.00	9,450.80	17,097.58	9,458.63	180.94	181.99	90.328	-1,684.14	7,577.35	1,397.80	1,034.89	362.92	3.852	
17,200.00	9,452.55	17,197.58	9,460.37	183.23	184.29	90.328	-1,684.06	7,677.33	1,398.49	1,030.98	367.51	3.805	
17,300.00	9,454.29	17,297.57	9,462.12	185.53	186.59	90.327	-1,683.98	7,777.32	1,399.17	1,027.06	372.11	3.760	
17,400.00	9,456.04	17,397.57	9,463.87	187.83	188.89	90.327	-1,683.90	7,877.30	1,399.86	1,023.15	376.71	3.716	
17,500.00	9,457.78	17,497.57	9,465.61	190.12	191.19	90.327	-1,683.82	7,977.28	1,400.54	1,019.24	381.30	3.673	
17,600.00	9,459.53	17,597.57	9,467.36	192.42	193.49	90.327	-1,683.74	8,077.26	1,401.22	1,015.32	385.90	3.631	
17,700.00	9,461.27	17,697.57	9,469.10	194.72	195.79	90.327	-1,683.66	8,177.25	1,401.91	1,011.41	390.50	3.590	
17,800.00	9,463.02	17,797.56	9,470.85	197.02	198.09	90.327	-1,683.58	8,277.23	1,402.59	1,007.50	395.10	3.550	
17,900.00	9,464.77	17,897.56	9,472.59	199.32	200.39	90.326	-1,683.50	8,377.21	1,403.28	1,003.58	399.69	3.511	
18,000.00	9,466.51	17,997.56	9,474.34	201.61	202.69	90.326	-1,683.42	8,477.19	1,403.96	999.67	404.29	3.473	
18,100.00	9,468.26	18,097.56	9,476.08	203.91	204.99	90.326	-1,683.34	8,577.17	1,404.65	995.75	408.89	3.435	
18,200.00	9,470.00	18,197.55	9,477.83	206.21	207.29	90.326	-1,683.25	8,677.16	1,405.33	991.84	413.49	3.399	
18,300.00	9,471.75	18,297.55	9,479.57	208.51	209.59	90.326	-1,683.17	8,777.14	1,406.02	987.92	418.09	3.363	
18,400.00	9,473.49	18,397.55	9,481.32	210.81	211.89	90.326	-1,683.09	8,877.12	1,406.70	984.01	422.69	3.328	
18,500.00	9,475.24	18,497.55	9,483.06	213.11	214.19	90.325	-1,683.01	8,977.10	1,407.38	980.09	427.29	3.294	
18,600.00	9,476.98	18,597.54	9,484.81	215.41	216.49	90.325	-1,682.93	9,077.09	1,408.07	976.18	431.89	3.260	
18,700.00	9,478.73	18,697.54	9,486.55	217.71	218.80	90.325	-1,682.85	9,177.07	1,408.75	972.26	436.49	3.227	
18,800.00	9,480.47	18,797.54	9,488.30	220.01	221.10	90.325	-1,682.77	9,277.05	1,409.44	968.34	441.09	3.195	
18,900.00	9,482.22	18,897.54	9,490.04	222.31	223.40	90.325	-1,682.69	9,377.03	1,410.12	964.43	445.70	3.164	
19,000.00	9,483.96	18,997.53	9,491.79	224.61	225.70	90.325	-1,682.61	9,477.02	1,410.81	960.51	450.30	3.133	
19,100.00	9,485.71	19,097.53	9,493.53	226.91	228.00	90.325	-1,682.53	9,577.00	1,411.49	956.59	454.90	3.103	
19,200.00	9,487.45	19,197.53	9,495.28	229.21	230.30	90.324	-1,682.45	9,676.98	1,412.18	952.68	459.50	3.073	
19,300.00	9,489.20	19,247.64	9,496.15	231.51	231.46	90.324	-1,682.41	9,727.09	1,413.74	951.10	462.65	3.056 ES, SF	
19,355.56	9,490.17	19,247.64	9,496.15	232.78	231.46	90.324	-1,682.41	9,727.09	1,417.17	954.26	462.91	3.061	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Larry Wolfish 01-23S-27E RB - 204H - OH / 64293 - Surveys (Patterson 813)													Offset Site Error: 0.00 usft
Survey Program: 96-													Offset Well Error: 1.00 usft
Reference	Offset	Semi Major Axis		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	
0.00	0.00	32.04	2.64	1.00	1.00	-27.164	2,454.03	-1,259.26	2,758.26				
100.00	100.00	128.02	98.62	1.13	1.07	-27.175	2,453.65	-1,259.66	2,758.10	2,755.92	2.18	1,266.811	
200.00	200.00	208.53	179.13	1.66	1.30	-27.191	2,453.61	-1,260.52	2,758.55	2,755.64	2.91	948.115	
300.00	300.00	309.09	279.67	2.06	1.62	-27.221	2,453.76	-1,262.18	2,759.43	2,755.79	3.64	757.687	
400.00	400.00	433.29	403.85	2.39	2.18	-27.269	2,453.00	-1,264.43	2,759.71	2,755.31	4.40	627.701	
500.00	500.00	560.83	531.36	2.69	2.78	-27.321	2,451.18	-1,266.26	2,759.11	2,754.00	5.11	540.232	
600.00	600.00	665.01	635.52	2.96	3.11	-27.347	2,449.39	-1,266.78	2,757.81	2,752.14	5.67	486.788	
700.00	700.00	744.44	714.94	3.21	3.36	-27.369	2,448.22	-1,267.38	2,756.85	2,750.70	6.15	448.286	
800.00	800.00	836.27	806.76	3.44	3.67	-27.405	2,447.19	-1,268.75	2,756.54	2,749.86	6.68	412.431	
900.00	900.00	999.49	969.94	3.66	4.34	-27.457	2,444.02	-1,269.93	2,755.15	2,747.72	7.43	370.740	
1,000.00	1,000.00	1,109.66	1,080.05	3.87	4.72	-27.490	2,440.50	-1,269.90	2,752.29	2,744.30	8.00	344.251	
1,100.00	1,100.00	1,347.82	1,317.68	4.07	5.98	-27.387	2,430.39	-1,259.10	2,745.82	2,735.85	9.96	275.550	
1,200.00	1,200.00	1,646.10	1,612.80	4.26	7.68	-26.929	2,408.24	-1,223.30	2,732.49	2,720.59	11.89	229.770	
1,300.00	1,300.00	1,736.13	1,701.62	4.45	8.11	-26.790	2,399.46	-1,211.50	2,717.80	2,705.28	12.52	217.133	
1,400.00	1,399.98	1,891.34	1,854.74	4.72	8.66	104.984	2,380.51	-1,194.62	2,702.42	2,689.21	13.21	204.528	
1,500.00	1,499.84	1,975.77	1,937.92	4.99	8.92	105.455	2,369.68	-1,185.01	2,687.19	2,673.56	13.63	197.121	
1,600.00	1,599.45	2,056.59	2,017.58	5.27	9.18	105.961	2,360.02	-1,175.45	2,673.50	2,659.45	14.05	190.283	
1,700.00	1,698.70	2,129.69	2,089.73	5.57	9.41	106.460	2,351.71	-1,167.13	2,661.58	2,647.13	14.45	184.140	
1,800.00	1,797.47	2,197.51	2,156.76	5.89	9.63	106.953	2,344.75	-1,159.49	2,651.80	2,636.94	14.86	178.418	
1,899.79	1,895.42	2,271.00	2,229.54	6.23	9.89	107.473	2,337.85	-1,152.03	2,644.41	2,629.09	15.32	172.563	
1,900.00	1,895.62	2,271.00	2,229.54	6.23	9.89	107.473	2,337.85	-1,152.03	2,644.40	2,629.08	15.32	172.557	
2,000.00	1,993.44	2,320.82	2,278.98	6.51	10.08	107.738	2,333.64	-1,147.54	2,638.96	2,623.24	15.73	167.769	
2,100.00	2,091.26	2,391.98	2,349.70	6.81	10.37	108.113	2,328.37	-1,141.67	2,635.07	2,618.82	16.25	162.179	
2,200.00	2,189.07	2,475.82	2,433.07	7.13	10.74	108.555	2,322.57	-1,135.00	2,632.00	2,615.15	16.85	156.198	
2,300.00	2,286.89	2,794.44	2,748.38	7.47	12.32	110.146	2,286.40	-1,108.76	2,624.49	2,605.97	18.53	141.662	
2,400.00	2,384.70	2,874.85	2,827.52	7.82	12.60	110.561	2,274.71	-1,100.67	2,614.17	2,595.11	19.06	137.163	
2,500.00	2,482.52	2,959.01	2,910.38	8.18	12.89	111.023	2,263.41	-1,091.27	2,604.64	2,585.03	19.61	132.803	
2,600.00	2,580.34	3,042.25	2,992.41	8.56	13.18	111.484	2,252.59	-1,082.06	2,595.79	2,575.62	20.17	128.686	
2,700.00	2,678.15	3,114.39	3,063.58	8.94	13.43	111.876	2,243.46	-1,074.66	2,587.80	2,567.08	20.71	124.946	
2,800.00	2,775.97	3,175.00	3,123.49	9.33	13.64	112.204	2,236.43	-1,068.80	2,581.21	2,559.98	21.23	121.590	
2,900.00	2,873.79	3,255.00	3,202.69	9.73	13.92	112.636	2,227.89	-1,061.42	2,575.83	2,554.02	21.81	118.085	
3,000.00	2,971.60	3,340.36	3,287.28	10.14	14.21	113.096	2,219.25	-1,053.89	2,571.30	2,548.90	22.41	114.751	
3,100.00	3,069.42	3,432.89	3,379.02	10.55	14.53	113.591	2,210.09	-1,046.01	2,567.30	2,544.27	23.03	111.455	
3,200.00	3,167.23	3,587.42	3,531.94	10.97	15.10	114.449	2,193.68	-1,031.16	2,562.55	2,538.65	23.91	107.193	
3,300.00	3,265.05	3,681.02	3,624.38	11.39	15.45	114.981	2,182.73	-1,021.32	2,556.76	2,532.18	24.58	104.033	
3,400.00	3,362.87	3,754.45	3,697.00	11.81	15.71	115.395	2,174.62	-1,014.03	2,551.96	2,526.79	25.17	101.395	
3,500.00	3,460.68	3,849.33	3,790.88	12.24	16.04	115.931	2,164.55	-1,004.72	2,547.87	2,522.03	25.84	98.613	
3,600.00	3,558.50	3,956.85	3,897.25	12.68	16.43	116.538	2,152.87	-994.20	2,543.80	2,517.24	26.56	95.793	
3,700.00	3,656.32	4,058.23	3,997.51	13.11	16.80	117.108	2,141.53	-984.39	2,539.70	2,512.44	27.26	93.165	
3,800.00	3,754.13	4,157.50	4,095.66	13.55	17.16	117.671	2,130.33	-974.62	2,535.70	2,507.73	27.97	90.670	
3,831.13	3,784.58	4,187.97	4,125.79	13.67	17.27	117.843	2,126.86	-971.65	2,534.49	2,506.32	28.17	89.969	
3,900.00	3,852.11	4,244.16	4,181.36	13.97	17.48	118.096	2,120.50	-966.30	2,531.59	2,502.99	28.60	88.525	
4,000.00	3,950.70	4,309.00	4,245.57	14.43	17.71	118.321	2,113.56	-960.60	2,526.97	2,497.81	29.16	86.653	
4,100.00	4,049.82	4,402.00	4,337.83	14.86	18.05	118.586	2,104.31	-953.36	2,521.73	2,491.94	29.79	84.656	
4,200.00	4,149.33	4,471.18	4,406.55	15.28	18.30	118.686	2,097.89	-948.58	2,515.71	2,485.42	30.29	83.056	
4,300.00	4,249.13	4,557.44	4,492.29	15.65	18.61	118.763	2,090.45	-942.86	2,508.82	2,478.00	30.81	81.421	
4,400.00	4,349.08	4,681.65	4,615.69	15.97	19.06	118.836	2,079.86	-933.48	2,500.23	2,468.80	31.44	79.535	
4,430.92	4,380.00	4,758.94	4,692.33	16.00	19.36	-12.386	2,072.13	-927.06	2,496.74	2,464.99	31.75	78.638	
4,500.00	4,449.08	4,856.48	4,788.83	16.02	19.74	-12.251	2,060.82	-918.61	2,487.59	2,455.44	32.14	77.387	
4,600.00	4,549.08	4,952.76	4,884.06	16.06	20.10	-12.124	2,049.12	-910.51	2,473.91	2,441.35	32.56	75.987	
4,700.00	4,649.08	5,026.97	4,957.52	16.10	20.38	-12.028	2,040.47	-904.48	2,460.81	2,427.92	32.89	74.810	
4,800.00	4,749.08	5,108.70	5,038.54	16.15	20.71	-11.927	2,031.74	-898.24	2,448.74	2,415.48	33.26	73.614	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Larry Wolfish 01-23S-27E RB - 204H - OH / 64293 - Surveys (Patterson 813)												Offset Site Error:	0.00 usft
Survey Program: 96-												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Offset 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	
4,900.00	4,849.08	5,193.70	5,122.76	16.19	21.04	-11.791	2,023.28	-890.57	2,437.14	2,403.49	33.65	72.425	
5,000.00	4,949.08	5,274.59	5,202.95	16.24	21.36	-11.643	2,016.04	-882.69	2,426.35	2,392.34	34.01	71.332	
5,100.00	5,049.08	5,363.76	5,291.39	16.28	21.70	-11.485	2,008.39	-874.37	2,416.05	2,381.64	34.40	70.224	
5,200.00	5,149.08	5,440.00	5,367.10	16.33	21.98	-11.360	2,002.30	-867.77	2,406.48	2,371.74	34.74	69.270	
5,300.00	5,249.08	5,535.00	5,461.53	16.37	22.34	-11.213	1,995.23	-860.13	2,397.60	2,362.45	35.15	68.213	
5,400.00	5,349.08	5,611.49	5,537.62	16.42	22.62	-11.102	1,989.93	-854.37	2,389.30	2,353.82	35.48	67.343	
5,500.00	5,449.08	5,697.31	5,623.04	16.46	22.93	-10.982	1,984.52	-848.20	2,381.72	2,345.88	35.85	66.443	
5,600.00	5,549.08	5,793.56	5,718.89	16.51	23.28	-10.847	1,978.82	-841.41	2,374.55	2,338.30	36.26	65.495	
5,700.00	5,649.08	5,892.02	5,816.97	16.55	23.65	-10.724	1,972.87	-835.14	2,367.42	2,330.75	36.67	64.552	
5,800.00	5,749.08	5,981.38	5,906.05	16.60	23.98	-10.643	1,967.42	-830.72	2,360.51	2,323.46	37.05	63.710	
5,900.00	5,849.08	6,065.50	5,989.93	16.65	24.28	-10.561	1,962.81	-826.42	2,354.18	2,316.77	37.40	62.943	
6,000.00	5,949.08	6,155.27	6,079.50	16.70	24.60	-10.482	1,958.37	-822.31	2,348.47	2,310.69	37.77	62.172	
6,100.00	6,049.08	6,257.73	6,181.76	16.74	24.96	-10.403	1,953.38	-818.10	2,342.93	2,304.73	38.20	61.339	
6,200.00	6,149.08	6,348.56	6,272.41	16.79	25.28	-10.353	1,948.76	-815.17	2,337.36	2,298.79	38.57	60.607	
6,300.00	6,249.08	6,469.54	6,393.18	16.84	25.71	-10.289	1,942.71	-811.45	2,331.94	2,292.88	39.06	59.700	
6,400.00	6,349.08	6,523.02	6,446.57	16.89	25.90	-10.263	1,940.11	-809.88	2,326.68	2,287.39	39.29	59.217	
6,500.00	6,449.08	6,569.00	6,492.53	16.94	26.07	-10.245	1,938.79	-808.89	2,323.57	2,284.10	39.47	58.864	
6,592.63	6,541.71	6,618.19	6,541.70	16.98	26.23	-10.225	1,938.40	-808.00	2,322.62	2,282.93	39.69	58.524	
6,600.00	6,549.08	6,621.79	6,545.31	16.98	26.24	-10.223	1,938.41	-807.94	2,322.63	2,282.93	39.70	58.503	
6,700.00	6,649.08	6,676.18	6,599.68	17.03	26.42	-10.194	1,939.33	-806.90	2,323.87	2,283.96	39.92	58.220	
6,800.00	6,749.08	6,760.54	6,683.98	17.08	26.67	-10.136	1,941.79	-804.96	2,326.34	2,286.11	40.24	57.819	
6,900.00	6,849.08	6,870.28	6,793.65	17.13	27.01	-10.073	1,945.05	-802.92	2,328.94	2,288.28	40.65	57.288	
7,000.00	6,949.08	6,986.40	6,909.73	17.18	27.36	-10.032	1,947.73	-801.73	2,331.04	2,289.94	41.10	56.719	
7,100.00	7,049.08	11,459.30	9,294.95	17.23	54.64	-100.791	-423.62	-795.93	2,282.52	2,241.15	41.38	55.163	
7,200.00	7,149.08	11,454.39	9,295.13	17.28	54.59	-100.116	-418.72	-795.81	2,184.20	2,142.52	41.68	52.408	
7,300.00	7,249.08	11,449.63	9,295.31	17.33	54.54	-99.457	-413.97	-795.69	2,086.02	2,044.03	41.99	49.677	
7,400.00	7,349.08	11,445.01	9,295.48	17.38	54.49	-98.815	-409.35	-795.58	1,988.02	1,945.70	42.33	46.969	
7,500.00	7,449.08	11,440.53	9,295.65	17.43	54.44	-98.189	-404.87	-795.48	1,890.22	1,847.54	42.68	44.286	
7,600.00	7,549.08	11,436.17	9,295.80	17.49	54.39	-97.579	-400.52	-795.37	1,792.65	1,749.59	43.06	41.628	
7,700.00	7,649.08	11,431.93	9,295.95	17.54	54.35	-96.984	-396.28	-795.28	1,695.36	1,651.88	43.48	38.995	
7,800.00	7,749.08	11,427.82	9,296.10	17.59	54.30	-96.403	-392.17	-795.19	1,598.39	1,554.47	43.92	36.389	
7,900.00	7,849.08	11,423.81	9,296.24	17.64	54.26	-95.837	-388.17	-795.10	1,501.81	1,457.39	44.42	33.811	
8,000.00	7,949.08	11,419.92	9,296.37	17.69	54.22	-95.285	-384.28	-795.01	1,405.70	1,360.73	44.97	31.261	
8,100.00	8,049.08	11,416.13	9,296.50	17.75	54.17	-94.747	-380.49	-794.93	1,310.16	1,264.58	45.58	28.743	
8,200.00	8,149.08	11,412.43	9,296.62	17.80	54.13	-94.221	-376.80	-794.85	1,215.33	1,169.05	46.28	26.258	
8,300.00	8,249.08	11,408.84	9,296.74	17.85	54.10	-93.708	-373.21	-794.78	1,121.39	1,074.29	47.09	23.811	
8,400.00	8,349.08	11,405.33	9,296.85	17.90	54.06	-93.208	-369.70	-794.71	1,028.57	980.53	48.05	21.408	
8,500.00	8,449.08	11,401.92	9,296.96	17.96	54.02	-92.720	-366.29	-794.64	937.23	888.05	49.18	19.056	
8,600.00	8,549.08	11,398.59	9,297.06	18.01	53.98	-92.243	-362.96	-794.58	847.83	797.27	50.56	16.769	
8,700.00	8,649.08	11,395.34	9,297.16	18.06	53.95	-91.778	-359.72	-794.51	761.06	708.80	52.25	14.565	
8,799.52	8,748.60	11,392.19	9,297.26	18.12	53.92	-91.326	-356.57	-794.45	678.31	623.97	54.34	12.484	
8,800.00	8,749.08	11,392.17	9,297.26	18.12	53.92	179.116	-356.55	-794.45	677.92	623.58	54.35	12.474	
8,850.00	8,799.02	11,390.56	9,297.31	18.11	53.90	179.412	-354.94	-794.42	639.61	583.97	55.64	11.496	
8,900.00	8,848.57	11,388.86	9,297.36	18.03	53.88	179.659	-353.25	-794.39	606.20	549.07	57.14	10.610	
8,950.00	8,897.36	11,387.10	9,297.41	17.94	53.86	179.877	-351.48	-794.36	578.82	519.99	58.83	9.839	
9,000.00	8,945.01	11,385.29	9,297.47	17.84	53.84	-179.922	-349.67	-794.33	558.57	497.94	60.63	9.212	
9,050.00	8,991.18	11,383.44	9,297.52	17.75	53.82	-179.728	-347.82	-794.29	546.42	483.99	62.43	8.752	
9,094.20	9,030.46	11,381.79	9,297.57	17.66	53.80	-179.555	-346.17	-794.26	542.93	479.02	63.91	8.496 CC	
9,100.00	9,035.50	11,381.57	9,297.58	17.65	53.80	-179.532	-345.96	-794.26	542.98	478.90	64.09	8.473 ES	
9,150.00	9,077.63	11,379.70	9,297.63	17.56	53.78	-179.328	-344.09	-794.23	548.47	482.98	65.49	8.375 SF	
9,200.00	9,117.26	11,377.84	9,297.68	17.49	53.76	-179.107	-342.23	-794.19	562.57	496.00	66.57	8.451	
9,250.00	9,154.08	11,376.00	9,297.74	17.43	53.74	-178.859	-340.39	-794.16	584.56	517.22	67.33	8.682	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Larry Wolfish 01-23S-27E RB - 204H - OH / 64293 - Surveys (Patterson 813)													Offset Site Error:	0.00 usft	
Survey Program:		96-		Offset		Semi Maior Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	1.00 usft
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	Warning		
9,300.00	9,187.82	11,374.20	9,297.79	17.40	53.72	-178.568	-338.59	-794.13	613.43	545.60	67.82	9.044			
9,350.00	9,218.22	11,372.45	9,297.84	17.41	53.70	-178.211	-336.84	-794.10	648.07	579.95	68.11	9.515			
9,400.00	9,245.04	11,370.76	9,297.88	17.47	53.68	-177.751	-335.16	-794.07	687.35	619.09	68.26	10.070			
9,450.00	9,268.08	11,369.15	9,297.93	17.58	53.67	-177.120	-333.54	-794.05	730.27	661.95	68.32	10.688			
9,500.00	9,287.17	11,367.61	9,297.97	17.76	53.65	-176.174	-332.01	-794.02	775.92	707.58	68.34	11.354			
9,550.00	9,302.16	11,366.17	9,298.01	18.02	53.64	-174.567	-330.56	-794.00	823.52	755.19	68.34	12.051			
9,600.00	9,312.94	11,362.00	9,298.12	18.35	53.59	-170.005	-326.40	-793.93	872.44	804.18	68.26	12.780			
9,650.00	9,319.42	11,362.00	9,298.12	18.76	53.59	-157.647	-326.40	-793.93	922.10	853.82	68.28	13.504			
9,689.52	9,321.47	11,362.00	9,298.12	19.14	53.59	-74.676	-326.40	-793.93	961.59	893.29	68.30	14.079			
9,700.00	9,321.66	11,362.00	9,298.12	19.25	53.59	-74.676	-326.40	-793.93	972.06	903.76	68.30	14.232			
9,800.00	9,323.40	11,362.00	9,298.12	20.40	53.59	-74.676	-326.40	-793.93	1,072.03	1,003.70	68.34	15.688			
9,900.00	9,325.15	11,362.00	9,298.12	21.76	53.59	-74.676	-326.40	-793.93	1,172.01	1,103.64	68.37	17.142			
10,000.00	9,326.89	11,362.00	9,298.12	23.28	53.59	-74.676	-326.40	-793.93	1,271.99	1,203.59	68.40	18.596			
10,100.00	9,328.64	11,362.00	9,298.12	24.93	53.59	-74.676	-326.40	-793.93	1,371.97	1,303.54	68.43	20.048			
10,200.00	9,330.38	11,362.00	9,298.12	26.69	53.59	-74.676	-326.40	-793.93	1,471.96	1,403.49	68.47	21.499			
10,300.00	9,332.13	11,362.00	9,298.12	28.53	53.59	-74.676	-326.40	-793.93	1,571.94	1,503.44	68.50	22.948			
10,400.00	9,333.87	11,362.00	9,298.12	30.44	53.59	-74.676	-326.40	-793.93	1,671.93	1,603.40	68.53	24.395			
10,500.00	9,335.62	11,362.00	9,298.12	32.40	53.59	-74.676	-326.40	-793.93	1,771.92	1,703.35	68.57	25.841			
10,600.00	9,337.36	11,362.00	9,298.12	34.41	53.59	-74.676	-326.40	-793.93	1,871.91	1,803.30	68.61	27.284			
10,700.00	9,339.11	11,362.00	9,298.12	36.45	53.59	-74.676	-326.40	-793.93	1,971.90	1,903.26	68.65	28.726			
10,800.00	9,340.85	11,362.00	9,298.12	38.52	53.59	-74.676	-326.40	-793.93	2,071.90	2,003.21	68.69	30.165			
10,900.00	9,342.60	11,362.00	9,298.12	40.62	53.59	-74.676	-326.40	-793.93	2,171.89	2,103.16	68.73	31.601			
11,000.00	9,344.34	11,362.00	9,298.12	42.74	53.59	-74.676	-326.40	-793.93	2,271.88	2,203.11	68.77	33.035			
11,100.00	9,346.09	11,362.00	9,298.12	44.88	53.59	-74.676	-326.40	-793.93	2,371.88	2,303.06	68.82	34.467			
11,200.00	9,347.83	11,362.00	9,298.12	47.04	53.59	-74.676	-326.40	-793.93	2,471.87	2,403.01	68.86	35.896			
11,300.00	9,349.58	11,362.00	9,298.12	49.21	53.59	-74.676	-326.40	-793.93	2,571.87	2,502.95	68.91	37.321			
11,400.00	9,351.32	11,362.00	9,298.12	51.39	53.59	-74.676	-326.40	-793.93	2,671.86	2,602.90	68.96	38.744			
11,500.00	9,353.07	11,362.00	9,298.12	53.58	53.59	-74.676	-326.40	-793.93	2,771.86	2,702.84	69.01	40.164			
11,600.00	9,354.82	11,362.00	9,298.12	55.79	53.59	-74.676	-326.40	-793.93	2,871.85	2,802.79	69.07	41.581			
11,700.00	9,356.56	11,338.14	9,298.73	58.00	53.33	-82.876	-302.55	-793.65	2,971.66	2,902.90	68.76	43.218			
11,800.00	9,358.31	11,337.35	9,298.75	60.21	53.32	-83.013	-301.75	-793.64	3,071.65	3,002.84	68.81	44.641			
11,900.00	9,360.05	11,336.58	9,298.76	62.44	53.31	-83.141	-300.99	-793.63	3,171.63	3,102.78	68.86	46.061			
12,000.00	9,361.80	11,335.84	9,298.78	64.67	53.31	-83.261	-300.24	-793.63	3,271.62	3,202.71	68.91	47.477			
12,100.00	9,363.54	11,335.12	9,298.80	66.90	53.30	-83.374	-299.52	-793.62	3,371.61	3,302.65	68.96	48.889			
12,200.00	9,365.29	11,334.42	9,298.81	69.14	53.29	-83.480	-298.83	-793.62	3,471.60	3,402.58	69.02	50.298			
12,300.00	9,367.03	11,333.74	9,298.83	71.38	53.28	-83.580	-298.15	-793.61	3,571.59	3,502.51	69.08	51.703			
12,400.00	9,368.78	11,333.09	9,298.85	73.63	53.28	-83.675	-297.50	-793.61	3,671.58	3,602.44	69.14	53.104			
12,500.00	9,370.52	11,332.45	9,298.86	75.88	53.27	-83.765	-296.86	-793.61	3,771.57	3,702.36	69.20	54.501			
12,600.00	9,372.27	11,331.83	9,298.87	78.14	53.26	-83.850	-296.24	-793.60	3,871.56	3,802.29	69.27	55.894			
12,700.00	9,374.01	11,331.23	9,298.89	80.39	53.26	-83.931	-295.64	-793.60	3,971.55	3,902.21	69.33	57.283			
12,800.00	9,375.76	11,330.65	9,298.90	82.65	53.25	-84.008	-295.06	-793.60	4,071.54	4,002.14	69.40	58.667			
12,900.00	9,377.50	11,330.08	9,298.91	84.92	53.24	-84.082	-294.49	-793.59	4,171.53	4,102.06	69.47	60.048			
13,000.00	9,379.25	11,329.53	9,298.93	87.18	53.24	-84.151	-293.94	-793.59	4,271.52	4,201.98	69.54	61.424			
13,100.00	9,380.99	11,328.99	9,298.94	89.45	53.23	-84.218	-293.40	-793.59	4,371.51	4,301.89	69.62	62.795			
13,200.00	9,382.74	11,328.47	9,298.95	91.72	53.23	-84.282	-292.88	-793.58	4,471.50	4,401.81	69.69	64.162			
13,300.00	9,384.48	11,327.96	9,298.96	93.99	53.22	-84.342	-292.37	-793.58	4,571.49	4,501.73	69.77	65.524			
13,400.00	9,386.23	11,327.47	9,298.97	96.26	53.22	-84.400	-291.88	-793.58	4,671.49	4,601.64	69.85	66.882			
13,500.00	9,387.97	11,326.99	9,298.98	98.53	53.21	-84.456	-291.40	-793.58	4,771.48	4,701.55	69.93	68.235			
13,600.00	9,389.72	11,326.52	9,298.99	100.81	53.21	-84.510	-290.93	-793.58	4,871.47	4,801.46	70.01	69.583			
13,700.00	9,391.47	11,326.06	9,299.00	103.09	53.20	-84.561	-290.47	-793.57	4,971.46	4,901.37	70.09	70.926			
13,800.00	9,393.21	11,325.61	9,299.01	105.36	53.20	-84.610	-290.02	-793.57	5,071.46	5,001.28	70.18	72.264			
13,900.00	9,394.96	11,325.17	9,299.02	107.64	53.19	-84.657	-289.58	-793.57	5,171.45	5,101.18	70.27	73.598			

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Larry Wolfish 01-23S-27E RB - 204H - OH / 64293 - Surveys (Patterson 813)												Offset Site Error:	0.00 usft
Survey Program: 96-												Offset Well Error:	1.00 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)			
14,000.00	9,396.70	11,324.75	9,299.03	109.92	53.19	-84.703	-289.16	-793.57	5,271.44	5,201.09	70.35	74.926	
14,100.00	9,398.45	11,324.33	9,299.04	112.21	53.18	-84.747	-288.74	-793.57	5,371.44	5,300.99	70.45	76.250	
14,200.00	9,400.19	11,323.93	9,299.05	114.49	53.18	-84.789	-288.34	-793.57	5,471.43	5,400.89	70.54	77.568	
14,300.00	9,401.94	11,323.53	9,299.06	116.77	53.17	-84.829	-287.94	-793.57	5,571.42	5,500.79	70.63	78.882	
14,400.00	9,403.68	11,323.14	9,299.07	119.06	53.17	-84.869	-287.55	-793.56	5,671.42	5,600.69	70.72	80.190	
14,500.00	9,405.43	11,322.77	9,299.08	121.34	53.16	-84.907	-287.18	-793.56	5,771.41	5,700.59	70.82	81.493	
14,600.00	9,407.17	11,322.40	9,299.08	123.63	53.16	-84.943	-286.81	-793.56	5,871.40	5,800.49	70.92	82.791	
14,700.00	9,408.92	11,322.03	9,299.09	125.91	53.16	-84.978	-286.44	-793.56	5,971.40	5,900.38	71.02	84.084	
14,800.00	9,410.66	11,321.68	9,299.10	128.20	53.15	-85.013	-286.09	-793.56	6,071.39	6,000.27	71.12	85.371	
14,900.00	9,412.41	11,321.33	9,299.11	130.49	53.15	-85.046	-285.75	-793.56	6,171.39	6,100.17	71.22	86.653	
15,000.00	9,414.15	11,321.00	9,299.11	132.78	53.15	-85.077	-285.41	-793.56	6,271.38	6,200.06	71.32	87.930	
15,100.00	9,415.90	11,320.67	9,299.12	135.06	53.14	-85.108	-285.08	-793.56	6,371.38	6,299.95	71.43	89.202	
15,200.00	9,417.64	11,320.34	9,299.13	137.35	53.14	-85.138	-284.75	-793.56	6,471.37	6,399.84	71.53	90.468	
15,300.00	9,419.39	11,320.02	9,299.13	139.64	53.13	-85.167	-284.43	-793.56	6,571.37	6,499.73	71.64	91.729	
15,400.00	9,421.13	11,319.71	9,299.14	141.94	53.13	-85.196	-284.12	-793.56	6,671.36	6,599.61	71.75	92.985	
15,500.00	9,422.88	11,319.41	9,299.15	144.23	53.13	-85.223	-283.82	-793.56	6,771.36	6,699.50	71.86	94.235	
15,600.00	9,424.62	11,319.11	9,299.15	146.52	53.12	-85.250	-283.52	-793.55	6,871.35	6,799.38	71.97	95.480	
15,700.00	9,426.37	11,318.82	9,299.16	148.81	53.12	-85.275	-283.23	-793.55	6,971.35	6,899.27	72.08	96.719	
15,800.00	9,428.12	11,318.53	9,299.17	151.10	53.12	-85.300	-282.94	-793.55	7,071.34	6,999.15	72.19	97.953	
15,900.00	9,429.86	11,318.25	9,299.17	153.40	53.12	-85.325	-282.66	-793.55	7,171.34	7,099.03	72.31	99.182	
16,000.00	9,431.61	11,317.97	9,299.18	155.69	53.11	-85.348	-282.39	-793.55	7,271.33	7,198.91	72.42	100.405	
16,100.00	9,433.35	11,317.70	9,299.18	157.98	53.11	-85.371	-282.12	-793.55	7,371.33	7,298.79	72.54	101.623	
16,200.00	9,435.10	11,317.44	9,299.19	160.28	53.11	-85.394	-281.85	-793.55	7,471.32	7,398.67	72.65	102.835	
16,300.00	9,436.84	11,317.18	9,299.19	162.57	53.10	-85.416	-281.59	-793.55	7,571.32	7,498.55	72.77	104.042	
16,400.00	9,438.59	11,316.92	9,299.20	164.87	53.10	-85.437	-281.34	-793.55	7,671.32	7,598.42	72.89	105.243	
16,500.00	9,440.33	11,316.67	9,299.20	167.16	53.10	-85.457	-281.09	-793.55	7,771.31	7,698.30	73.01	106.439	
16,600.00	9,442.08	11,316.43	9,299.21	169.46	53.10	-85.478	-280.84	-793.55	7,871.31	7,798.17	73.13	107.630	
16,700.00	9,443.82	11,316.19	9,299.21	171.75	53.09	-85.497	-280.60	-793.55	7,971.30	7,898.05	73.26	108.815	
16,800.00	9,445.57	11,315.95	9,299.22	174.05	53.09	-85.516	-280.36	-793.55	8,071.30	7,997.92	73.38	109.995	
16,900.00	9,447.31	11,315.72	9,299.22	176.34	53.09	-85.535	-280.13	-793.55	8,171.30	8,097.79	73.50	111.169	
17,000.00	9,449.06	11,315.49	9,299.23	178.64	53.09	-85.553	-279.90	-793.55	8,271.29	8,197.66	73.63	112.338	
17,100.00	9,450.80	11,315.26	9,299.23	180.94	53.08	-85.571	-279.68	-793.55	8,371.29	8,297.53	73.75	113.502	
17,200.00	9,452.55	11,315.04	9,299.24	183.23	53.08	-85.588	-279.46	-793.55	8,471.29	8,397.40	73.88	114.660	
17,300.00	9,454.29	11,314.83	9,299.24	185.53	53.08	-85.605	-279.24	-793.55	8,571.28	8,497.27	74.01	115.813	
17,400.00	9,456.04	11,314.61	9,299.25	187.83	53.08	-85.622	-279.03	-793.55	8,671.28	8,597.14	74.14	116.960	
17,500.00	9,457.78	11,314.40	9,299.25	190.12	53.07	-85.638	-278.82	-793.55	8,771.27	8,697.01	74.27	118.102	
17,600.00	9,459.53	11,314.20	9,299.26	192.42	53.07	-85.654	-278.61	-793.55	8,871.27	8,796.87	74.40	119.239	
17,700.00	9,461.27	11,314.00	9,299.26	194.72	53.07	-85.669	-278.41	-793.55	8,971.27	8,896.74	74.53	120.370	
17,800.00	9,463.02	11,313.80	9,299.26	197.02	53.07	-85.684	-278.21	-793.55	9,071.27	8,996.60	74.66	121.497	
17,900.00	9,464.77	11,313.60	9,299.27	199.32	53.07	-85.699	-278.01	-793.55	9,171.26	9,096.47	74.80	122.617	
18,000.00	9,466.51	11,313.41	9,299.27	201.61	53.06	-85.713	-277.82	-793.55	9,271.26	9,196.33	74.93	123.733	
18,100.00	9,468.26	11,313.22	9,299.28	203.91	53.06	-85.728	-277.63	-793.55	9,371.26	9,296.19	75.06	124.843	
18,200.00	9,470.00	11,313.03	9,299.28	206.21	53.06	-85.741	-277.44	-793.55	9,471.25	9,396.05	75.20	125.948	
18,300.00	9,471.75	11,312.85	9,299.28	208.51	53.06	-85.755	-277.26	-793.55	9,571.25	9,495.91	75.34	127.048	
18,400.00	9,473.49	11,312.67	9,299.29	210.81	53.05	-85.768	-277.08	-793.55	9,671.25	9,595.77	75.47	128.142	
18,500.00	9,475.24	11,312.49	9,299.29	213.11	53.05	-85.781	-276.90	-793.55	9,771.24	9,695.63	75.61	129.231	
18,600.00	9,476.98	11,312.31	9,299.29	215.41	53.05	-85.794	-276.73	-793.55	9,871.24	9,795.49	75.75	130.315	
18,700.00	9,478.73	11,312.14	9,299.30	217.71	53.05	-85.806	-276.55	-793.55	9,971.24	9,895.35	75.89	131.394	
18,800.00	9,480.47	11,311.97	9,299.30	220.01	53.05	-85.819	-276.38	-793.55	10,071.24	9,995.21	76.03	132.468	
18,900.00	9,482.22	11,311.80	9,299.30	222.31	53.05	-85.831	-276.22	-793.55	10,171.23	10,095.06	76.17	133.537	
19,000.00	9,483.96	11,311.64	9,299.31	224.61	53.04	-85.842	-276.05	-793.55	10,271.23	10,194.92	76.31	134.600	
19,100.00	9,485.71	11,311.48	9,299.31	226.91	53.04	-85.854	-275.89	-793.55	10,371.23	10,294.78	76.45	135.659	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Larry Wolfish 01-23S-27E RB - 204H - OH / 64293 - Surveys (Patterson 813)													Offset Site Error: 0.00 usft
Survey Program: 96-													Offset Well Error: 1.00 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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
19,200.00	9,487.45	11,311.32	9,299.31	229.21	53.04	-85.865	-275.73	-793.55	10,471.23	10,394.63	76.59	136.712	
19,300.00	9,489.20	11,311.16	9,299.32	231.51	53.04	-85.876	-275.57	-793.55	10,571.22	10,494.49	76.74	137.760	
19,355.56	9,490.17	11,311.07	9,299.32	232.78	53.04	-85.882	-275.49	-793.55	10,626.78	10,549.96	76.82	138.340	



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus 5 WXY Fed Com - Maximus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance			Separation Factor	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)		
0.00	0.00	0.00	0.00	1.00	1.00	0.005	29.95	0.00	29.95				
100.00	100.00	100.00	100.00	1.13	1.13	0.005	29.95	0.00	29.95	27.68	2.27	13.213	
200.00	200.00	200.00	200.00	1.66	1.66	0.005	29.95	0.00	29.95	26.63	3.32	9.022	
300.00	300.00	300.00	300.00	2.06	2.06	0.005	29.95	0.00	29.95	25.83	4.12	7.274	
400.00	400.00	400.00	400.00	2.39	2.39	0.005	29.95	0.00	29.95	25.16	4.79	6.253	
500.00	500.00	500.00	500.00	2.69	2.69	0.005	29.95	0.00	29.95	24.56	5.38	5.563	
600.00	600.00	600.00	600.00	2.96	2.96	0.005	29.95	0.00	29.95	24.02	5.92	5.057	
700.00	700.00	700.00	700.00	3.21	3.21	0.005	29.95	0.00	29.95	23.53	6.42	4.665	
800.00	800.00	800.00	800.00	3.44	3.44	0.005	29.95	0.00	29.95	23.06	6.89	4.349	
900.00	900.00	900.00	900.00	3.66	3.66	0.005	29.95	0.00	29.95	22.62	7.33	4.088	
1,000.00	1,000.00	1,000.00	1,000.00	3.87	3.87	0.005	29.95	0.00	29.95	22.20	7.74	3.867	
1,100.00	1,100.00	1,100.00	1,100.00	4.07	4.07	0.005	29.95	0.00	29.95	21.80	8.14	3.677	
1,200.00	1,200.00	1,200.00	1,200.00	4.26	4.26	0.005	29.95	0.00	29.95	21.42	8.53	3.511	
1,300.00	1,300.00	1,300.00	1,300.00	4.45	4.45	0.005	29.95	0.00	29.95	21.05	8.90	3.365 CC, ES	
1,400.00	1,399.98	1,398.96	1,398.94	4.72	4.73	132.388	31.53	-0.64	32.70	23.32	9.38	3.487	
1,500.00	1,499.84	1,497.45	1,497.29	4.99	5.02	134.795	36.25	-2.56	41.02	31.18	9.84	4.167	
1,600.00	1,599.45	1,595.00	1,594.48	5.27	5.32	137.138	44.01	-5.71	54.92	44.60	10.32	5.322	
1,700.00	1,698.70	1,691.18	1,689.97	5.57	5.62	138.882	54.65	-10.03	74.37	63.56	10.81	6.878	
1,800.00	1,797.47	1,785.57	1,783.24	5.89	5.94	140.040	67.98	-15.44	99.25	87.92	11.32	8.764	
1,899.79	1,895.42	1,877.59	1,873.69	6.23	6.26	140.757	83.71	-21.83	129.33	117.48	11.85	10.914	
1,900.00	1,895.62	1,877.78	1,873.87	6.23	6.26	140.759	83.75	-21.84	129.40	117.55	11.85	10.919	
2,000.00	1,993.44	1,971.21	1,965.27	6.51	6.56	141.433	101.66	-29.11	162.68	150.33	12.35	13.173	
2,100.00	2,091.26	2,065.47	2,057.48	6.81	6.85	141.868	119.82	-36.48	196.05	183.17	12.88	15.227	
2,200.00	2,189.07	2,159.73	2,149.68	7.13	7.15	142.177	137.97	-43.85	229.42	215.99	13.43	17.084	
2,300.00	2,286.89	2,253.99	2,241.88	7.47	7.47	142.407	156.13	-51.22	262.80	248.79	14.01	18.760	
2,400.00	2,384.70	2,348.25	2,334.08	7.82	7.81	142.585	174.28	-58.59	296.18	281.57	14.61	20.272	
2,500.00	2,482.52	2,442.51	2,426.28	8.18	8.15	142.728	192.43	-65.96	329.56	314.33	15.23	21.636	
2,600.00	2,580.34	2,536.77	2,518.49	8.56	8.50	142.844	210.59	-73.33	362.95	347.08	15.87	22.869	
2,700.00	2,678.15	2,631.03	2,610.69	8.94	8.87	142.940	228.74	-80.70	396.33	379.81	16.53	23.983	
2,800.00	2,775.97	2,725.29	2,702.89	9.33	9.24	143.022	246.89	-88.07	429.72	412.53	17.19	24.993	
2,900.00	2,873.79	2,819.55	2,795.09	9.73	9.61	143.091	265.05	-95.44	463.11	445.23	17.87	25.909	
3,000.00	2,971.60	2,913.81	2,887.29	10.14	10.00	143.152	283.20	-102.81	496.49	477.93	18.57	26.742	
3,100.00	3,069.42	3,008.07	2,979.49	10.55	10.38	143.204	301.36	-110.18	529.88	510.61	19.27	27.502	
3,200.00	3,167.23	3,102.33	3,071.70	10.97	10.78	143.251	319.51	-117.55	563.27	543.29	19.98	28.196	
3,300.00	3,265.05	3,196.59	3,163.90	11.39	11.17	143.292	337.66	-124.92	596.66	575.96	20.70	28.831	
3,400.00	3,362.87	3,290.85	3,256.10	11.81	11.57	143.329	355.82	-132.29	630.05	608.63	21.42	29.413	
3,500.00	3,460.68	3,385.11	3,348.30	12.24	11.98	143.362	373.97	-139.66	663.44	641.28	22.15	29.949	
3,600.00	3,558.50	3,479.38	3,440.50	12.68	12.38	143.392	392.13	-147.03	696.83	673.94	22.89	30.444	
3,700.00	3,656.32	3,573.64	3,532.71	13.11	12.79	143.420	410.28	-154.40	730.21	706.58	23.63	30.900	
3,800.00	3,754.13	3,667.90	3,624.91	13.55	13.20	143.445	428.43	-161.77	763.60	739.23	24.38	31.323	
3,831.13	3,784.58	3,697.24	3,653.61	13.67	13.33	143.452	434.08	-164.06	774.00	749.40	24.60	31.464	
3,900.00	3,852.11	3,762.37	3,717.32	13.97	13.62	143.711	446.63	-169.15	796.36	771.26	25.11	31.721	
4,000.00	3,950.70	3,857.67	3,810.54	14.43	14.04	143.928	464.98	-176.60	826.59	800.72	25.87	31.958	
4,100.00	4,049.82	3,953.71	3,904.48	14.86	14.47	143.975	483.48	-184.11	854.12	827.51	26.61	32.098	
4,200.00	4,149.33	4,050.38	3,999.04	15.28	14.90	143.866	502.10	-191.67	878.96	851.63	27.33	32.158	
4,300.00	4,249.13	4,147.57	4,094.10	15.65	15.33	143.612	520.81	-199.27	901.12	873.09	28.03	32.152	
4,400.00	4,349.08	4,245.15	4,189.55	15.97	15.77	143.220	539.61	-206.90	920.61	891.94	28.67	32.110	
4,430.92	4,380.00	4,275.38	4,219.12	16.00	15.91	11.796	545.43	-209.26	926.11	897.29	28.82	32.135	
4,500.00	4,449.08	4,342.95	4,285.22	16.02	16.21	11.310	558.44	-214.55	938.14	909.03	29.12	32.218	
4,600.00	4,549.08	4,440.77	4,380.90	16.06	16.65	10.629	577.28	-222.19	955.68	926.10	29.58	32.313	
4,700.00	4,649.08	4,538.58	4,476.58	16.10	17.10	9.971	596.12	-229.84	973.34	943.30	30.04	32.404	
4,800.00	4,749.08	4,636.40	4,572.26	16.15	17.54	9.337	614.96	-237.49	991.12	960.62	30.50	32.492	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus 5 WXY Fed Com - Maximus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.00	4,849.08	4,734.22	4,667.94	16.19	17.99	8.725	633.80	-245.14	1,009.02	978.04	30.97	32.577	
5,000.00	4,949.08	4,832.03	4,763.62	16.24	18.43	8.134	652.64	-252.78	1,027.02	995.58	31.45	32.658	
5,100.00	5,049.08	4,929.85	4,859.30	16.28	18.88	7.564	671.47	-260.43	1,045.13	1,013.21	31.92	32.737	
5,200.00	5,149.08	5,027.66	4,954.98	16.33	19.33	7.012	690.31	-268.08	1,063.34	1,030.93	32.41	32.813	
5,300.00	5,249.08	5,125.48	5,050.66	16.37	19.78	6.479	709.15	-275.73	1,081.64	1,048.75	32.89	32.887	
5,400.00	5,349.08	5,223.30	5,146.34	16.42	20.23	5.964	727.99	-283.38	1,100.03	1,066.65	33.38	32.958	
5,500.00	5,449.08	5,321.11	5,242.01	16.46	20.68	5.465	746.83	-291.02	1,118.50	1,084.63	33.87	33.027	
5,600.00	5,549.08	5,418.93	5,337.69	16.51	21.13	4.983	765.67	-298.67	1,137.05	1,102.69	34.36	33.093	
5,700.00	5,649.08	5,516.74	5,433.37	16.55	21.58	4.516	784.51	-306.32	1,155.68	1,120.82	34.85	33.157	
5,800.00	5,749.08	5,614.56	5,529.05	16.60	22.03	4.063	803.34	-313.97	1,174.38	1,139.03	35.35	33.220	
5,900.00	5,849.08	5,712.38	5,624.73	16.65	22.49	3.625	822.18	-321.61	1,193.15	1,157.30	35.85	33.280	
6,000.00	5,949.08	5,810.19	5,720.41	16.70	22.94	3.200	841.02	-329.26	1,211.98	1,175.63	36.35	33.338	
6,100.00	6,049.08	5,908.01	5,816.09	16.74	23.39	2.789	859.86	-336.91	1,230.88	1,194.02	36.86	33.395	
6,200.00	6,149.08	6,005.82	5,911.77	16.79	23.85	2.389	878.70	-344.56	1,249.84	1,212.48	37.37	33.449	
6,300.00	6,249.08	6,103.64	6,007.45	16.84	24.30	2.002	897.54	-352.20	1,268.86	1,230.98	37.87	33.503	
6,400.00	6,349.08	6,207.64	6,109.19	16.89	24.78	1.603	917.53	-360.32	1,287.90	1,249.48	38.42	33.521	
6,500.00	6,449.08	6,376.31	6,275.27	16.94	25.27	1.080	944.69	-371.35	1,303.90	1,264.55	39.35	33.137	
6,600.00	6,549.08	6,547.93	6,445.72	16.98	26.30	0.740	962.99	-378.78	1,314.51	1,274.39	40.12	32.765	
6,700.00	6,649.08	6,721.33	6,618.83	17.03	26.90	0.580	971.84	-382.37	1,319.59	1,278.92	40.67	32.448	
6,800.00	6,749.08	6,851.59	6,749.08	17.08	27.06	0.565	972.66	-382.70	1,320.06	1,279.24	40.82	32.338	
6,900.00	6,849.08	6,951.59	6,849.08	17.13	27.10	0.565	972.66	-382.70	1,320.06	1,279.14	40.92	32.256	
7,000.00	6,949.08	7,051.59	6,949.08	17.18	27.14	0.565	972.66	-382.70	1,320.06	1,279.03	41.03	32.174	
7,100.00	7,049.08	7,151.59	7,049.08	17.23	27.18	0.565	972.66	-382.70	1,320.06	1,278.93	41.13	32.093	
7,200.00	7,149.08	7,251.59	7,149.08	17.28	27.23	0.565	972.66	-382.70	1,320.06	1,278.82	41.24	32.011	
7,300.00	7,249.08	7,351.59	7,249.08	17.33	27.27	0.565	972.66	-382.70	1,320.06	1,278.72	41.34	31.929	
7,400.00	7,349.08	7,451.59	7,349.08	17.38	27.31	0.565	972.66	-382.70	1,320.06	1,278.61	41.45	31.848	
7,500.00	7,449.08	7,551.59	7,449.08	17.43	27.36	0.565	972.66	-382.70	1,320.06	1,278.51	41.55	31.767	
7,600.00	7,549.08	7,651.59	7,549.08	17.49	27.40	0.565	972.66	-382.70	1,320.06	1,278.40	41.66	31.686	
7,700.00	7,649.08	7,751.59	7,649.08	17.54	27.44	0.565	972.66	-382.70	1,320.06	1,278.29	41.77	31.605	
7,800.00	7,749.08	7,851.59	7,749.08	17.59	27.49	0.565	972.66	-382.70	1,320.06	1,278.19	41.88	31.524	
7,900.00	7,849.08	7,951.59	7,849.08	17.64	27.53	0.565	972.66	-382.70	1,320.06	1,278.08	41.98	31.443	
8,000.00	7,949.08	8,051.59	7,949.08	17.69	27.58	0.565	972.66	-382.70	1,320.06	1,277.97	42.09	31.362	
8,100.00	8,049.08	8,151.59	8,049.08	17.75	27.62	0.565	972.66	-382.70	1,320.06	1,277.86	42.20	31.282	
8,200.00	8,149.08	8,251.59	8,149.08	17.80	27.66	0.565	972.66	-382.70	1,320.06	1,277.75	42.31	31.202	
8,300.00	8,249.08	8,351.59	8,249.08	17.85	27.71	0.565	972.66	-382.70	1,320.06	1,277.64	42.42	31.121	
8,400.00	8,349.08	8,451.59	8,349.08	17.90	27.75	0.565	972.66	-382.70	1,320.06	1,277.53	42.53	31.041	
8,500.00	8,449.08	8,551.59	8,449.08	17.96	27.80	0.565	972.66	-382.70	1,320.06	1,277.43	42.64	30.962	
8,600.00	8,549.08	8,651.59	8,549.08	18.01	27.85	0.565	972.66	-382.70	1,320.06	1,277.32	42.75	30.882	
8,700.00	8,649.08	8,751.59	8,649.08	18.06	27.89	0.565	972.66	-382.70	1,320.06	1,277.20	42.86	30.802	
8,716.31	8,665.39	8,767.89	8,665.39	18.07	27.90	0.565	972.66	-382.70	1,320.06	1,277.19	42.87	30.789	
8,799.52	8,748.60	8,850.27	8,747.77	18.12	27.93	0.565	972.66	-382.70	1,320.06	1,277.10	42.96	30.729	
8,799.70	8,748.78	8,851.24	8,748.74	18.12	27.93	0.565	972.66	-382.70	1,320.06	1,277.10	42.96	30.730	
8,800.00	8,749.08	8,851.53	8,749.03	18.12	27.93	-88.997	972.66	-382.70	1,320.06	1,277.10	42.96	30.730	
8,850.00	8,799.02	8,900.00	8,797.43	18.11	27.91	-88.998	972.67	-380.54	1,320.06	1,277.09	42.97	30.719	
8,900.00	8,848.57	8,947.67	8,844.70	18.03	27.86	-89.006	972.72	-374.44	1,320.06	1,277.10	42.96	30.729	
8,950.00	8,897.36	8,995.76	8,891.70	17.94	27.80	-89.021	972.80	-364.33	1,320.05	1,277.12	42.93	30.750	
9,000.00	8,945.01	9,043.89	8,937.72	17.84	27.75	-89.044	972.90	-350.30	1,320.04	1,277.15	42.89	30.778	
9,050.00	8,991.18	9,092.06	8,982.44	17.75	27.69	-89.073	973.04	-332.44	1,320.03	1,277.18	42.85	30.809	
9,100.00	9,035.50	9,140.29	9,025.56	17.65	27.64	-89.109	973.20	-310.86	1,320.02	1,277.21	42.81	30.837	
9,150.00	9,077.63	9,188.60	9,066.77	17.56	27.60	-89.152	973.40	-285.68	1,320.00	1,277.22	42.78	30.855	
9,200.00	9,117.26	9,236.98	9,105.78	17.49	27.57	-89.202	973.61	-257.08	1,319.98	1,277.20	42.78	30.855	
9,250.00	9,154.08	9,285.47	9,142.31	17.43	27.55	-89.257	973.86	-225.22	1,319.97	1,277.15	42.82	30.827	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus 5 WXY Fed Com - Maximus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	1.00 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	
9,300.00	9,187.82	9,334.05	9,176.08	17.40	27.57	-89.318	974.12	-190.31	1,319.95	1,277.03	42.91	30.759	
9,350.00	9,218.22	9,382.76	9,206.84	17.41	27.61	-89.383	974.41	-152.57	1,319.93	1,276.85	43.08	30.640	
9,400.00	9,245.04	9,431.59	9,234.36	17.47	27.68	-89.454	974.72	-112.25	1,319.91	1,276.58	43.33	30.462	
9,450.00	9,268.08	9,480.56	9,258.41	17.58	27.79	-89.529	975.04	-69.61	1,319.90	1,276.21	43.68	30.216	
9,500.00	9,287.17	9,529.68	9,278.78	17.76	27.95	-89.607	975.38	-24.94	1,319.88	1,275.74	44.14	29.901	
9,550.00	9,302.16	9,578.94	9,295.30	18.02	28.16	-89.688	975.74	21.46	1,319.87	1,275.15	44.71	29.517	
9,600.00	9,312.94	9,628.37	9,307.81	18.35	28.41	-89.772	976.10	69.26	1,319.86	1,274.46	45.40	29.070	
9,650.00	9,319.42	9,677.96	9,316.17	18.76	28.72	-89.858	976.47	118.12	1,319.85	1,273.65	46.20	28.570	
9,689.52	9,321.47	9,717.28	9,319.78	19.14	28.99	-89.926	976.77	157.27	1,319.85	1,272.95	46.89	28.146	
9,700.00	9,321.66	9,727.73	9,320.28	19.25	29.06	-89.940	976.85	167.70	1,319.84	1,272.76	47.09	28.030	
9,800.00	9,323.40	9,827.70	9,322.16	20.40	29.90	-89.946	977.61	267.65	1,319.84	1,270.66	49.18	26.835	
9,900.00	9,325.15	9,927.70	9,323.91	21.76	30.86	-89.946	978.38	367.63	1,319.84	1,268.24	51.60	25.578	
10,000.00	9,326.89	10,027.70	9,325.65	23.28	31.96	-89.946	979.14	467.61	1,319.84	1,265.54	54.30	24.308	
10,100.00	9,328.64	10,127.70	9,327.40	24.93	33.17	-89.946	979.90	567.59	1,319.83	1,262.60	57.23	23.061	
10,200.00	9,330.38	10,227.70	9,329.15	26.69	34.49	-89.946	980.66	667.58	1,319.83	1,259.46	60.37	21.862	
10,300.00	9,332.13	10,327.70	9,330.89	28.53	35.91	-89.946	981.43	767.56	1,319.83	1,256.15	63.68	20.725	
10,400.00	9,333.87	10,427.70	9,332.64	30.44	37.41	-89.946	982.19	867.54	1,319.83	1,252.68	67.14	19.657	
10,500.00	9,335.62	10,527.70	9,334.38	32.40	38.99	-89.946	982.95	967.52	1,319.82	1,249.09	70.73	18.660	
10,600.00	9,337.36	10,627.70	9,336.13	34.41	40.63	-89.946	983.71	1,067.50	1,319.82	1,245.40	74.42	17.734	
10,700.00	9,339.11	10,727.70	9,337.87	36.45	42.34	-89.946	984.47	1,167.49	1,319.82	1,241.60	78.21	16.874	
10,800.00	9,340.85	10,827.70	9,339.62	38.52	44.10	-89.946	985.24	1,267.47	1,319.82	1,237.73	82.09	16.079	
10,900.00	9,342.60	10,927.70	9,341.36	40.62	45.91	-89.946	986.00	1,367.45	1,319.81	1,233.79	86.03	15.342	
11,000.00	9,344.34	11,027.70	9,343.11	42.74	47.77	-89.946	986.76	1,467.43	1,319.81	1,229.78	90.03	14.660	
11,100.00	9,346.09	11,127.70	9,344.85	44.88	49.66	-89.946	987.52	1,567.41	1,319.81	1,225.72	94.09	14.027	
11,200.00	9,347.83	11,227.70	9,346.60	47.04	51.58	-89.946	988.29	1,667.39	1,319.81	1,221.61	98.19	13.441	
11,300.00	9,349.58	11,327.70	9,348.34	49.21	53.54	-89.946	989.05	1,767.38	1,319.80	1,217.46	102.34	12.896	
11,400.00	9,351.32	11,427.70	9,350.09	51.39	55.52	-89.946	989.81	1,867.36	1,319.80	1,213.28	106.53	12.390	
11,500.00	9,353.07	11,527.70	9,351.83	53.58	57.52	-89.946	990.57	1,967.34	1,319.80	1,209.05	110.74	11.918	
11,600.00	9,354.82	11,627.70	9,353.58	55.79	59.55	-89.946	991.33	2,067.32	1,319.80	1,204.80	114.99	11.477	
11,700.00	9,356.56	11,727.70	9,355.32	58.00	61.60	-89.946	992.10	2,167.30	1,319.79	1,200.53	119.26	11.066	
11,800.00	9,358.31	11,827.70	9,357.07	60.21	63.66	-89.946	992.86	2,267.29	1,319.79	1,196.23	123.56	10.681	
11,900.00	9,360.05	11,927.70	9,358.82	62.44	65.75	-89.946	993.62	2,367.27	1,319.79	1,191.91	127.88	10.320	
12,000.00	9,361.80	12,027.70	9,360.56	64.67	67.84	-89.946	994.38	2,467.25	1,319.79	1,187.56	132.22	9.982	
12,100.00	9,363.54	12,127.70	9,362.31	66.90	69.95	-89.946	995.15	2,567.23	1,319.78	1,183.21	136.58	9.663	
12,200.00	9,365.29	12,227.70	9,364.05	69.14	72.07	-89.946	995.91	2,667.21	1,319.78	1,178.83	140.95	9.364	
12,300.00	9,367.03	12,327.70	9,365.80	71.38	74.21	-89.946	996.67	2,767.20	1,319.78	1,174.44	145.34	9.081	
12,400.00	9,368.78	12,427.70	9,367.54	73.63	76.35	-89.946	997.43	2,867.18	1,319.77	1,170.04	149.74	8.814	
12,500.00	9,370.52	12,527.70	9,369.29	75.88	78.50	-89.946	998.19	2,967.16	1,319.77	1,165.62	154.15	8.562	
12,600.00	9,372.27	12,627.70	9,371.03	78.14	80.66	-89.946	998.96	3,067.14	1,319.77	1,161.20	158.57	8.323	
12,700.00	9,374.01	12,727.70	9,372.78	80.39	82.83	-89.946	999.72	3,167.12	1,319.77	1,156.76	163.01	8.096	
12,800.00	9,375.76	12,827.70	9,374.52	82.65	85.01	-89.946	1,000.48	3,267.10	1,319.76	1,152.31	167.45	7.882	
12,900.00	9,377.50	12,927.70	9,376.27	84.92	87.19	-89.946	1,001.24	3,367.09	1,319.76	1,147.86	171.90	7.677	
13,000.00	9,379.25	13,027.70	9,378.01	87.18	89.38	-89.946	1,002.01	3,467.07	1,319.76	1,143.40	176.36	7.483	
13,100.00	9,380.99	13,127.70	9,379.76	89.45	91.57	-89.946	1,002.77	3,567.05	1,319.76	1,138.93	180.83	7.298	
13,200.00	9,382.74	13,227.70	9,381.50	91.72	93.77	-89.946	1,003.53	3,667.03	1,319.75	1,134.45	185.31	7.122	
13,300.00	9,384.48	13,327.70	9,383.25	93.99	95.98	-89.946	1,004.29	3,767.01	1,319.75	1,129.96	189.79	6.954	
13,400.00	9,386.23	13,427.70	9,384.99	96.26	98.19	-89.946	1,005.05	3,867.00	1,319.75	1,125.47	194.27	6.793	
13,500.00	9,387.97	13,527.70	9,386.74	98.53	100.40	-89.946	1,005.82	3,966.98	1,319.75	1,120.98	198.77	6.640	
13,600.00	9,389.72	13,627.70	9,388.48	100.81	102.62	-89.946	1,006.58	4,066.96	1,319.74	1,116.48	203.27	6.493	
13,700.00	9,391.47	13,727.70	9,390.23	103.09	104.84	-89.946	1,007.34	4,166.94	1,319.74	1,111.97	207.77	6.352	
13,800.00	9,393.21	13,827.70	9,391.98	105.36	107.07	-89.946	1,008.10	4,266.92	1,319.74	1,107.46	212.28	6.217	
13,900.00	9,394.96	13,927.70	9,393.72	107.64	109.30	-89.946	1,008.87	4,366.91	1,319.74	1,102.95	216.79	6.088	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus 5 WXY Fed Com - Maximus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22													Offset Site Error:	0.00 usft
Survey Program:		0-MWD+HRGM					Rule Assigned:				Offset Well Error:		1.00 usft	
Reference	Offset	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
14,000.00	9,396.70	14,027.70	9,395.47	109.92	111.53	-89.946	1,009.63	4,466.89	1,319.73	1,098.43	221.31	5.963		
14,100.00	9,398.45	14,127.70	9,397.21	112.21	113.77	-89.946	1,010.39	4,566.87	1,319.73	1,093.90	225.83	5.844		
14,200.00	9,400.19	14,227.70	9,398.96	114.49	116.00	-89.946	1,011.15	4,666.85	1,319.73	1,089.38	230.35	5.729		
14,300.00	9,401.94	14,327.70	9,400.70	116.77	118.24	-89.946	1,011.91	4,766.83	1,319.73	1,084.85	234.88	5.619		
14,400.00	9,403.68	14,427.70	9,402.45	119.06	120.49	-89.946	1,012.68	4,866.81	1,319.72	1,080.31	239.41	5.512		
14,500.00	9,405.43	14,527.70	9,404.19	121.34	122.73	-89.946	1,013.44	4,966.80	1,319.72	1,075.78	243.94	5.410		
14,600.00	9,407.17	14,627.70	9,405.94	123.63	124.98	-89.946	1,014.20	5,066.78	1,319.72	1,071.24	248.48	5.311		
14,700.00	9,408.92	14,727.70	9,407.68	125.91	127.23	-89.946	1,014.96	5,166.76	1,319.71	1,066.70	253.02	5.216		
14,800.00	9,410.66	14,827.70	9,409.43	128.20	129.48	-89.946	1,015.72	5,266.74	1,319.71	1,062.15	257.56	5.124		
14,900.00	9,412.41	14,927.70	9,411.17	130.49	131.73	-89.946	1,016.49	5,366.72	1,319.71	1,057.61	262.10	5.035		
15,000.00	9,414.15	15,027.70	9,412.92	132.78	133.99	-89.946	1,017.25	5,466.71	1,319.71	1,053.06	266.65	4.949		
15,100.00	9,415.90	15,127.70	9,414.66	135.06	136.25	-89.946	1,018.01	5,566.69	1,319.70	1,048.51	271.20	4.866		
15,200.00	9,417.64	15,227.70	9,416.41	137.35	138.51	-89.946	1,018.77	5,666.67	1,319.70	1,043.95	275.75	4.786		
15,300.00	9,419.39	15,327.70	9,418.15	139.64	140.77	-89.946	1,019.54	5,766.65	1,319.70	1,039.40	280.30	4.708		
15,400.00	9,421.13	15,427.70	9,419.90	141.94	143.03	-89.946	1,020.30	5,866.63	1,319.70	1,034.84	284.85	4.633		
15,500.00	9,422.88	15,527.70	9,421.65	144.23	145.29	-89.946	1,021.06	5,966.62	1,319.69	1,030.28	289.41	4.560		
15,600.00	9,424.62	15,627.70	9,423.39	146.52	147.55	-89.946	1,021.82	6,066.60	1,319.69	1,025.72	293.97	4.489		
15,700.00	9,426.37	15,727.70	9,425.14	148.81	149.82	-89.946	1,022.58	6,166.58	1,319.69	1,021.16	298.53	4.421		
15,800.00	9,428.12	15,827.70	9,426.88	151.10	152.09	-89.946	1,023.35	6,266.56	1,319.69	1,016.60	303.09	4.354		
15,900.00	9,429.86	15,927.70	9,428.63	153.40	154.35	-89.946	1,024.11	6,366.54	1,319.68	1,012.03	307.65	4.290		
16,000.00	9,431.61	16,027.70	9,430.37	155.69	156.62	-89.946	1,024.87	6,466.52	1,319.68	1,007.46	312.22	4.227		
16,100.00	9,433.35	16,127.70	9,432.12	157.98	158.89	-89.946	1,025.63	6,566.51	1,319.68	1,002.90	316.78	4.166		
16,200.00	9,435.10	16,227.70	9,433.86	160.28	161.17	-89.946	1,026.40	6,666.49	1,319.68	998.33	321.35	4.107		
16,300.00	9,436.84	16,327.70	9,435.61	162.57	163.44	-89.946	1,027.16	6,766.47	1,319.67	993.76	325.92	4.049		
16,400.00	9,438.59	16,427.70	9,437.35	164.87	165.71	-89.946	1,027.92	6,866.45	1,319.67	989.18	330.49	3.993		
16,500.00	9,440.33	16,527.70	9,439.10	167.16	167.98	-89.946	1,028.68	6,966.43	1,319.67	984.61	335.06	3.939		
16,600.00	9,442.08	16,627.70	9,440.84	169.46	170.26	-89.946	1,029.44	7,066.42	1,319.67	980.04	339.63	3.886		
16,700.00	9,443.82	16,727.70	9,442.59	171.75	172.54	-89.946	1,030.21	7,166.40	1,319.66	975.46	344.20	3.834		
16,800.00	9,445.57	16,827.70	9,444.33	174.05	174.81	-89.946	1,030.97	7,266.38	1,319.66	970.89	348.77	3.784		
16,900.00	9,447.31	16,927.70	9,446.08	176.34	177.09	-89.946	1,031.73	7,366.36	1,319.66	966.31	353.35	3.735		
17,000.00	9,449.06	17,027.70	9,447.82	178.64	179.37	-89.946	1,032.49	7,466.34	1,319.66	961.73	357.93	3.687		
17,100.00	9,450.80	17,127.70	9,449.57	180.94	181.65	-89.946	1,033.26	7,566.32	1,319.65	957.15	362.50	3.640		
17,200.00	9,452.55	17,227.70	9,451.31	183.23	183.93	-89.946	1,034.02	7,666.31	1,319.65	952.57	367.08	3.595		
17,300.00	9,454.29	17,327.70	9,453.06	185.53	186.21	-89.946	1,034.78	7,766.29	1,319.65	947.99	371.66	3.551		
17,400.00	9,456.04	17,427.70	9,454.81	187.83	188.49	-89.946	1,035.54	7,866.27	1,319.64	943.41	376.24	3.507		
17,500.00	9,457.78	17,527.70	9,456.55	190.12	190.77	-89.946	1,036.30	7,966.25	1,319.64	938.83	380.82	3.465		
17,600.00	9,459.53	17,627.70	9,458.30	192.42	193.05	-89.946	1,037.07	8,066.23	1,319.64	934.24	385.40	3.424		
17,700.00	9,461.27	17,727.70	9,460.04	194.72	195.33	-89.946	1,037.83	8,166.22	1,319.64	929.66	389.98	3.384		
17,800.00	9,463.02	17,827.70	9,461.79	197.02	197.61	-89.946	1,038.59	8,266.20	1,319.63	925.07	394.56	3.345		
17,900.00	9,464.77	17,927.70	9,463.53	199.32	199.90	-89.946	1,039.35	8,366.18	1,319.63	920.49	399.14	3.306		
18,000.00	9,466.51	18,027.70	9,465.28	201.61	202.18	-89.946	1,040.12	8,466.16	1,319.63	915.90	403.73	3.269		
18,100.00	9,468.26	18,127.70	9,467.02	203.91	204.47	-89.946	1,040.88	8,566.14	1,319.63	911.32	408.31	3.232		
18,200.00	9,470.00	18,227.70	9,468.77	206.21	206.75	-89.946	1,041.64	8,666.13	1,319.62	906.73	412.89	3.196		
18,300.00	9,471.75	18,327.70	9,470.51	208.51	209.04	-89.946	1,042.40	8,766.11	1,319.62	902.14	417.48	3.161		
18,400.00	9,473.49	18,427.70	9,472.26	210.81	211.32	-89.946	1,043.16	8,866.09	1,319.62	897.55	422.07	3.127		
18,500.00	9,475.24	18,527.70	9,474.00	213.11	213.61	-89.946	1,043.93	8,966.07	1,319.62	892.96	426.65	3.093		
18,600.00	9,476.98	18,627.70	9,475.75	215.41	215.90	-89.946	1,044.69	9,066.05	1,319.61	888.37	431.24	3.060		
18,700.00	9,478.73	18,727.70	9,477.49	217.71	218.18	-89.946	1,045.45	9,166.03	1,319.61	883.78	435.83	3.028		
18,800.00	9,480.47	18,827.70	9,479.24	220.01	220.47	-89.946	1,046.21	9,266.02	1,319.61	879.19	440.41	2.996		
18,900.00	9,482.22	18,927.70	9,480.98	222.31	222.76	-89.946	1,046.98	9,366.00	1,319.61	874.60	445.00	2.965		
19,000.00	9,483.96	19,027.70	9,482.73	224.61	225.05	-89.946	1,047.74	9,465.98	1,319.60	870.01	449.59	2.935		
19,100.00	9,485.71	19,127.70	9,484.48	226.91	227.34	-89.946	1,048.50	9,565.96	1,319.60	865.42	454.18	2.905		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus 5 WXY Fed Com - Maximus 5 WXY Fed Com 2H - OH - Plan 1 07-22-22													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				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	
19,200.00	9,487.45	19,227.70	9,486.22	229.21	229.62	-89.946	1,049.26	9,665.94	1,319.60	860.83	458.77	2.876	
19,300.00	9,489.20	19,327.70	9,487.97	231.51	231.91	-89.946	1,050.02	9,765.93	1,319.60	856.23	463.36	2.848	
19,355.56	9,490.17	19,383.25	9,488.94	232.78	233.19	-89.946	1,050.45	9,821.47	1,319.59	853.68	465.91	2.832 SF	



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Julius 1 - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 150-INC-ONLY													Offset Well Error: 1.00 usft
Reference	Offset	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	38.60	1.00	1.00	87.458	140.52	3,164.76	3,168.11				
100.00	100.00	61.40	100.00	1.13	1.27	87.458	140.52	3,164.76	3,167.88	3,165.47	2.40	1,317.463	
200.00	200.00	161.40	200.00	1.66	2.38	87.458	140.52	3,164.76	3,167.88	3,163.83	4.04	783.462	
300.00	300.00	261.40	300.00	2.06	4.44	87.458	140.52	3,164.76	3,167.88	3,161.38	6.50	487.659	
400.00	400.00	361.83	400.43	2.39	6.57	87.455	140.66	3,164.76	3,167.88	3,158.92	8.96	353.426	
500.00	500.00	461.42	500.00	2.69	8.51	87.458	140.52	3,164.76	3,167.88	3,156.68	11.20	282.897	
600.00	600.00	561.43	600.00	2.96	10.38	87.458	140.52	3,164.76	3,167.88	3,154.54	13.34	237.512	
700.00	700.00	661.86	700.42	3.21	12.42	87.451	140.86	3,164.76	3,167.89	3,152.26	15.63	202.686	
800.00	800.00	761.46	800.00	3.44	14.48	87.458	140.52	3,164.76	3,167.88	3,149.96	17.92	176.775	
900.00	900.00	861.90	900.43	3.66	16.60	87.450	140.92	3,164.76	3,167.89	3,147.63	20.26	156.359	
1,000.00	1,000.00	961.49	1,000.00	3.87	18.70	87.458	140.52	3,164.76	3,167.88	3,145.31	22.57	140.368	
1,100.00	1,100.00	1,061.99	1,100.49	4.07	20.80	87.451	140.86	3,164.76	3,167.89	3,143.01	24.88	127.343	
1,200.00	1,200.00	1,161.52	1,200.00	4.26	22.83	87.458	140.52	3,164.76	3,167.88	3,140.78	27.10	116.908	
1,300.00	1,300.00	1,262.15	1,300.63	4.45	24.80	87.452	140.82	3,164.76	3,167.89	3,138.64	29.25	108.300	
1,300.74	1,300.74	1,262.90	1,301.37	4.45	24.82	-141.272	140.82	3,164.76	3,167.89	3,138.62	29.27	108.240	
1,400.00	1,399.98	1,361.52	1,399.98	4.72	26.74	-141.270	140.52	3,164.76	3,169.24	3,137.82	31.42	100.874	
1,500.00	1,499.84	1,461.97	1,500.43	4.99	28.69	-141.278	140.54	3,164.76	3,173.32	3,139.74	33.59	94.482	
1,600.00	1,599.45	1,561.00	1,599.45	5.27	31.06	-141.290	140.52	3,164.76	3,180.13	3,143.94	36.19	87.876	
1,700.00	1,698.70	1,660.32	1,698.70	5.57	33.48	-141.307	140.52	3,164.76	3,189.67	3,150.82	38.86	82.092	
1,800.00	1,797.47	1,759.17	1,797.47	5.89	36.46	-141.327	140.52	3,164.76	3,201.94	3,159.85	42.10	76.062	
1,899.79	1,895.42	1,857.19	1,895.42	6.23	39.61	-141.349	140.52	3,164.76	3,216.91	3,171.39	45.52	70.665	
1,900.00	1,895.62	1,857.39	1,895.62	6.23	39.62	-141.349	140.52	3,164.76	3,216.95	3,171.42	45.53	70.655	
2,000.00	1,993.44	1,957.33	1,995.46	6.51	42.78	-141.587	140.78	3,164.76	3,233.36	3,184.42	48.94	66.065	
2,100.00	2,091.26	2,053.22	2,091.26	6.81	45.83	-141.803	140.52	3,164.76	3,249.79	3,197.53	52.26	62.181	
2,200.00	2,189.07	2,153.17	2,191.12	7.13	49.21	-142.038	140.91	3,164.76	3,266.31	3,210.38	55.93	58.397	
2,300.00	2,286.89	2,249.05	2,286.89	7.47	52.46	-142.248	140.52	3,164.76	3,282.83	3,223.35	59.48	55.189	
2,400.00	2,384.70	2,351.87	2,389.63	7.82	55.70	-142.478	140.52	3,164.76	3,299.42	3,236.39	63.03	52.344	
2,500.00	2,482.52	2,444.83	2,482.52	8.18	58.42	-142.684	140.52	3,164.76	3,316.06	3,249.98	66.08	50.180	
2,600.00	2,580.34	2,544.54	2,582.19	8.56	61.35	-142.909	140.87	3,164.76	3,332.78	3,263.43	69.35	48.058	
2,700.00	2,678.15	2,640.83	2,678.41	8.94	64.04	-143.122	141.07	3,164.76	3,349.53	3,277.14	72.39	46.272	
2,800.00	2,775.97	2,738.43	2,775.97	9.33	66.57	-143.323	140.52	3,164.76	3,366.25	3,290.98	75.27	44.720	
2,900.00	2,873.79	2,836.25	2,873.79	9.73	68.89	-143.531	140.52	3,164.76	3,383.08	3,305.12	77.95	43.399	
3,000.00	2,971.60	2,936.50	2,974.01	10.14	71.26	-143.755	141.21	3,164.76	3,400.01	3,319.31	80.70	42.133	
3,100.00	3,069.42	3,031.96	3,069.42	10.55	73.42	-143.942	140.52	3,164.76	3,416.85	3,333.62	83.23	41.052	
3,200.00	3,167.23	3,130.52	3,167.98	10.97	75.39	-144.154	140.93	3,164.76	3,433.84	3,348.26	85.58	40.123	
3,300.00	3,265.05	3,227.61	3,265.05	11.39	77.31	-144.346	140.52	3,164.76	3,450.79	3,362.90	87.89	39.262	
3,400.00	3,362.87	3,325.43	3,362.87	11.81	79.19	-144.544	140.52	3,164.76	3,467.83	3,377.67	90.16	38.465	
3,500.00	3,460.68	3,425.12	3,462.55	12.24	81.10	-144.748	140.72	3,164.76	3,484.92	3,392.46	92.46	37.691	
3,600.00	3,558.50	3,521.08	3,558.50	12.68	82.94	-144.936	140.52	3,164.76	3,502.01	3,407.31	94.70	36.979	
3,700.00	3,656.32	3,619.50	3,656.91	13.11	84.83	-145.137	140.92	3,164.76	3,519.22	3,422.22	97.00	36.280	
3,800.00	3,754.13	3,719.57	3,756.98	13.55	86.76	-145.326	140.53	3,164.76	3,536.37	3,437.03	99.33	35.601	
3,831.13	3,784.58	3,747.19	3,784.58	13.67	87.29	-145.379	140.52	3,164.76	3,541.72	3,441.74	99.98	35.425	
3,900.00	3,852.11	3,814.72	3,852.11	13.97	88.59	-145.631	140.52	3,164.76	3,552.92	3,451.38	101.55	34.988	
4,000.00	3,950.70	3,915.02	3,952.41	14.43	90.52	-145.946	140.80	3,164.76	3,566.84	3,462.95	103.89	34.333	
4,100.00	4,049.82	4,012.44	4,049.82	14.86	92.52	-146.181	140.52	3,164.76	3,577.83	3,471.55	106.28	33.665	
4,200.00	4,149.33	4,112.33	4,149.70	15.28	94.75	-146.366	140.93	3,164.76	3,586.04	3,477.17	108.86	32.940	
4,300.00	4,249.13	4,214.69	4,252.06	15.65	97.03	-146.475	140.58	3,164.76	3,591.25	3,479.78	111.47	32.217	
4,400.00	4,349.08	4,313.78	4,351.10	15.97	99.13	-146.530	140.91	3,164.76	3,593.65	3,479.82	113.83	31.569	
4,430.92	4,380.00	4,347.95	4,385.26	16.00	99.85	82.196	140.66	3,164.76	3,593.76	3,479.18	114.58	31.364	
4,448.18	4,397.26	4,367.03	4,404.33	16.00	100.25	82.199	140.42	3,164.76	3,593.73	3,478.74	114.99	31.253	
4,500.00	4,449.08	4,411.78	4,449.08	16.02	101.10	82.198	140.52	3,164.76	3,593.74	3,477.89	115.84	31.022	
4,600.00	4,549.08	4,512.72	4,550.02	16.06	103.04	82.195	140.70	3,164.76	3,593.76	3,475.94	117.83	30.500	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Julius 1 - OH - Surveys													Offset Site Error:	0.00 usft
Survey Program:		150-INC-ONLY						Rule Assigned:				Offset Well Error:	1.00 usft	
Reference	Offset	Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				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		
4,700.00	4,649.08	4,611.80	4,649.08	16.10	105.02	82.198	140.52	3,164.76	3,593.74	3,473.89	119.85	29.985		
4,800.00	4,749.08	4,713.88	4,751.15	16.15	107.18	82.193	140.83	3,164.76	3,593.78	3,471.72	122.06	29.443		
4,900.00	4,849.08	4,811.83	4,849.08	16.19	109.20	82.198	140.52	3,164.76	3,593.74	3,469.61	124.13	28.952		
5,000.00	4,949.08	4,914.26	4,951.50	16.24	111.27	82.193	140.80	3,164.76	3,593.78	3,467.53	126.24	28.467		
5,100.00	5,049.08	5,011.85	5,049.08	16.28	113.08	82.198	140.52	3,164.76	3,593.74	3,465.64	128.10	28.055		
5,200.00	5,149.08	5,114.03	5,151.26	16.33	114.85	82.195	140.68	3,164.76	3,593.76	3,463.85	129.91	27.663		
5,300.00	5,249.08	5,211.86	5,249.08	16.37	116.48	82.198	140.52	3,164.76	3,593.74	3,462.15	131.59	27.310		
5,400.00	5,349.08	5,312.67	5,349.90	16.42	118.13	82.197	140.56	3,164.76	3,593.74	3,460.45	133.30	26.961		
5,469.78	5,418.86	5,381.65	5,418.86	16.45	119.41	82.198	140.52	3,164.76	3,593.74	3,459.13	134.60	26.699		
5,500.00	5,449.08	5,411.86	5,449.08	16.46	120.00	82.198	140.52	3,164.76	3,593.74	3,458.53	135.21	26.580		
5,600.00	5,549.08	5,512.69	5,549.91	16.51	121.96	82.194	140.75	3,164.76	3,593.77	3,456.55	137.22	26.190		
5,700.00	5,649.08	5,611.89	5,649.08	16.55	123.91	82.198	140.52	3,164.76	3,593.74	3,454.52	139.22	25.814		
5,800.00	5,749.08	5,711.89	5,749.08	16.60	125.95	82.198	140.52	3,164.76	3,593.74	3,452.43	141.31	25.432		
5,900.00	5,849.08	5,815.20	5,852.38	16.65	128.06	82.194	140.74	3,164.76	3,593.77	3,450.30	143.47	25.050		
6,000.00	5,949.08	5,911.91	5,949.08	16.70	130.04	82.198	140.52	3,164.76	3,593.74	3,448.25	145.49	24.701		
6,100.00	6,049.08	6,012.94	6,050.10	16.74	132.10	82.192	140.89	3,164.76	3,593.79	3,446.19	147.60	24.348		
6,200.00	6,149.08	6,111.94	6,149.08	16.79	134.14	82.198	140.52	3,164.76	3,593.74	3,444.04	149.69	24.007		
6,300.00	6,249.08	6,211.94	6,249.08	16.84	136.37	82.198	140.52	3,164.76	3,593.74	3,441.77	151.97	23.647		
6,400.00	6,349.08	6,314.91	6,352.04	16.89	138.66	82.193	140.80	3,164.76	3,593.78	3,439.46	154.32	23.288		
6,500.00	6,449.08	6,411.99	6,449.08	16.94	140.78	82.198	140.52	3,164.76	3,593.74	3,437.26	156.48	22.966		
6,600.00	6,549.08	6,512.58	6,549.66	16.98	142.93	82.186	141.29	3,164.76	3,593.84	3,435.16	158.69	22.648		
6,700.00	6,649.08	6,616.49	6,653.55	17.03	145.16	82.194	140.75	3,164.76	3,593.77	3,432.81	160.96	22.327		
6,727.89	6,676.97	6,645.47	6,682.53	17.05	145.78	82.199	140.45	3,164.76	3,593.73	3,432.13	161.60	22.239		
6,800.00	6,749.08	6,712.04	6,749.08	17.08	147.13	82.198	140.52	3,164.76	3,593.74	3,430.75	162.99	22.049		
6,900.00	6,849.08	6,813.21	6,850.24	17.13	149.20	82.192	140.88	3,164.76	3,593.79	3,428.68	165.10	21.767		
7,000.00	6,949.08	6,912.07	6,949.08	17.18	151.27	82.198	140.52	3,164.76	3,593.74	3,426.52	167.22	21.491		
7,100.00	7,049.08	7,012.07	7,049.08	17.23	153.58	82.198	140.52	3,164.76	3,593.74	3,424.15	169.59	21.191		
7,200.00	7,149.08	7,115.25	7,152.25	17.28	155.97	82.194	140.76	3,164.76	3,593.77	3,421.74	172.04	20.890		
7,300.00	7,249.08	7,212.13	7,249.08	17.33	158.10	82.198	140.52	3,164.76	3,593.74	3,419.52	174.21	20.628		
7,400.00	7,349.08	7,314.11	7,351.05	17.38	160.27	82.186	141.27	3,164.76	3,593.84	3,417.40	176.44	20.368		
7,500.00	7,449.08	7,412.17	7,449.08	17.43	162.34	82.198	140.52	3,164.76	3,593.74	3,415.18	178.56	20.127		
7,600.00	7,549.08	7,512.17	7,549.08	17.49	164.19	82.198	140.52	3,164.76	3,593.74	3,413.27	180.47	19.914		
7,700.00	7,649.08	7,613.59	7,650.50	17.54	166.08	82.195	140.67	3,164.76	3,593.76	3,411.36	182.40	19.702		
7,800.00	7,749.08	7,712.19	7,749.08	17.59	167.96	82.198	140.52	3,164.76	3,593.74	3,409.40	184.34	19.495		
7,900.00	7,849.08	7,812.93	7,849.82	17.64	169.92	82.192	140.91	3,164.76	3,593.79	3,407.43	186.36	19.284		
8,000.00	7,949.08	7,912.21	7,949.08	17.69	171.86	82.198	140.52	3,164.76	3,593.74	3,405.39	188.35	19.080		
8,100.00	8,049.08	8,012.21	8,049.08	17.75	173.81	82.198	140.52	3,164.76	3,593.74	3,403.38	190.35	18.879		
8,200.00	8,149.08	8,114.13	8,151.00	17.80	175.80	82.194	140.78	3,164.76	3,593.77	3,401.38	192.40	18.679		
8,300.00	8,249.08	8,212.23	8,249.08	17.85	177.76	82.198	140.52	3,164.76	3,593.74	3,399.33	194.41	18.485		
8,400.00	8,349.08	8,312.74	8,349.59	17.90	179.81	82.191	140.92	3,164.76	3,593.79	3,397.28	196.52	18.287		
8,500.00	8,449.08	8,415.32	8,452.17	17.96	181.91	82.197	140.55	3,164.76	3,593.74	3,395.07	198.67	18.089		
8,538.11	8,487.19	8,450.37	8,487.19	17.98	182.71	82.198	140.52	3,164.76	3,593.74	3,394.25	199.49	18.015		
8,600.00	8,549.08	8,512.26	8,549.08	18.01	184.14	82.198	140.52	3,164.76	3,593.74	3,392.78	200.96	17.883		
8,700.00	8,649.08	8,613.74	8,650.55	18.06	186.49	82.189	141.07	3,164.76	3,593.81	3,390.44	203.37	17.671		
8,799.52	8,748.60	8,711.85	8,748.60	18.12	188.79	82.198	140.52	3,164.76	3,593.74	3,388.02	205.71	17.470		
8,800.00	8,749.08	8,712.33	8,749.08	18.12	188.80	-7.364	140.52	3,164.76	3,593.74	3,388.01	205.73	17.468		
8,850.00	8,799.02	8,762.26	8,799.02	18.11	190.18	-7.397	140.52	3,164.76	3,591.53	3,384.41	207.12	17.340		
8,900.00	8,848.57	8,811.82	8,848.57	18.03	191.55	-7.496	140.52	3,164.76	3,585.02	3,376.60	208.42	17.201		
8,950.00	8,897.36	8,862.92	8,899.66	17.94	192.96	-7.676	141.17	3,164.76	3,574.34	3,364.59	209.76	17.040		
9,000.00	8,945.01	8,913.44	8,950.17	17.84	194.36	-7.918	140.78	3,164.76	3,559.35	3,348.28	211.07	16.864		
9,050.00	8,991.18	8,954.55	8,991.18	17.75	195.53	-8.241	140.52	3,164.76	3,540.30	3,328.16	212.14	16.688		
9,100.00	9,035.50	8,998.87	9,035.50	17.65	196.83	-8.676	140.52	3,164.76	3,517.39	3,304.03	213.36	16.486		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Julius 1 - OH - Surveys												Offset Site Error:	0.00 usft
Survey Program: 150-INC-ONLY												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,150.00	9,077.63	9,041.89	9,078.50	17.56	198.10	-9.256	141.46	3,164.76	3,490.86	3,276.32	214.54	16.271	
9,200.00	9,117.26	9,085.91	9,122.50	17.49	199.40	-9.977	141.18	3,164.76	3,460.63	3,244.87	215.76	16.039	
9,250.00	9,154.08	9,126.82	9,163.40	17.43	200.61	-10.898	140.58	3,164.76	3,427.06	3,210.17	216.89	15.801	
9,300.00	9,187.82	9,151.33	9,187.82	17.40	201.24	-12.054	140.52	3,164.76	3,390.50	3,173.06	217.44	15.593	
9,350.00	9,218.22	9,181.72	9,218.22	17.41	202.00	-13.616	140.52	3,164.76	3,351.19	3,133.05	218.14	15.363	
9,400.00	9,245.04	9,208.54	9,245.04	17.47	202.67	-15.722	140.52	3,164.76	3,309.41	3,090.65	218.76	15.128	
9,450.00	9,268.08	9,231.59	9,268.08	17.58	203.24	-18.662	140.52	3,164.76	3,265.50	3,046.20	219.30	14.891	
9,500.00	9,287.17	9,250.68	9,287.17	17.76	203.72	-22.957	140.52	3,164.76	3,219.77	3,000.02	219.75	14.652	
9,550.00	9,302.16	9,266.49	9,302.97	18.02	204.11	-29.709	141.59	3,164.76	3,172.75	2,952.61	220.14	14.412	
9,600.00	9,312.94	9,278.06	9,314.53	18.35	204.40	-40.924	141.56	3,164.76	3,124.46	2,904.03	220.44	14.174	
9,650.00	9,319.42	9,285.02	9,321.49	18.76	204.58	-60.572	141.54	3,164.76	3,075.45	2,854.82	220.63	13.939	
9,689.52	9,321.47	9,287.22	9,323.69	19.14	204.63	-83.799	141.53	3,164.76	3,036.44	2,815.72	220.72	13.757	
9,700.00	9,321.66	9,287.42	9,323.89	19.25	204.64	-83.823	141.53	3,164.76	3,026.09	2,805.35	220.73	13.709	
9,800.00	9,323.40	9,289.29	9,325.76	20.40	204.68	-84.052	141.52	3,164.76	2,927.31	2,706.43	220.88	13.253	
9,900.00	9,325.15	9,291.16	9,327.63	21.76	204.73	-84.282	141.51	3,164.76	2,828.62	2,607.57	221.05	12.797	
10,000.00	9,326.89	9,293.03	9,329.50	23.28	204.78	-84.511	141.50	3,164.76	2,730.02	2,508.79	221.23	12.340	
10,100.00	9,328.64	9,294.90	9,331.36	24.93	204.82	-84.741	141.49	3,164.76	2,631.53	2,410.08	221.45	11.883	
10,200.00	9,330.38	9,296.77	9,333.23	26.69	204.87	-84.971	141.48	3,164.76	2,533.15	2,311.46	221.69	11.427	
10,300.00	9,332.13	9,298.63	9,335.10	28.53	204.92	-85.201	141.47	3,164.76	2,434.91	2,212.94	221.97	10.970	
10,400.00	9,333.87	9,300.50	9,336.97	30.44	204.96	-85.431	141.45	3,164.76	2,336.81	2,114.53	222.28	10.513	
10,500.00	9,335.62	9,302.37	9,338.83	32.40	205.01	-85.661	141.44	3,164.76	2,238.88	2,016.24	222.64	10.056	
10,600.00	9,337.36	9,304.23	9,340.70	34.41	205.06	-85.891	141.43	3,164.76	2,141.14	1,918.09	223.05	9.599	
10,700.00	9,339.11	9,306.10	9,342.57	36.45	205.10	-86.122	141.42	3,164.76	2,043.62	1,820.09	223.53	9.142	
10,800.00	9,340.85	9,307.97	9,344.43	38.52	205.15	-86.352	141.40	3,164.76	1,946.34	1,722.27	224.08	8.686	
10,900.00	9,342.60	9,309.83	9,346.30	40.62	205.20	-86.583	141.39	3,164.76	1,849.36	1,624.65	224.71	8.230	
11,000.00	9,344.34	9,311.70	9,348.16	42.74	205.24	-86.813	141.37	3,164.76	1,752.71	1,527.27	225.44	7.774	
11,100.00	9,346.09	9,313.56	9,350.02	44.88	205.29	-87.044	141.36	3,164.76	1,656.46	1,430.16	226.30	7.320	
11,200.00	9,347.83	9,315.43	9,351.89	47.04	205.34	-87.274	141.34	3,164.76	1,560.68	1,333.38	227.30	6.866	
11,300.00	9,349.58	9,317.29	9,353.75	49.21	205.38	-87.505	141.33	3,164.76	1,465.46	1,236.99	228.46	6.414	
11,400.00	9,351.32	9,319.15	9,355.61	51.39	205.43	-87.736	141.31	3,164.76	1,370.91	1,141.08	229.84	5.965	
11,500.00	9,353.07	9,321.02	9,357.48	53.58	205.48	-87.967	141.29	3,164.76	1,277.20	1,045.74	231.46	5.518	
11,600.00	9,354.82	9,322.88	9,359.34	55.79	205.52	-88.198	141.27	3,164.76	1,184.51	951.13	233.38	5.075	
11,700.00	9,356.56	9,324.74	9,361.20	58.00	205.57	-88.429	141.26	3,164.76	1,093.11	857.44	235.67	4.638	
11,800.00	9,358.31	9,326.60	9,363.06	60.21	205.62	-88.660	141.24	3,164.76	1,003.35	764.93	238.41	4.208	
11,900.00	9,360.05	9,328.46	9,364.92	62.44	205.66	-88.890	141.22	3,164.76	915.70	674.00	241.70	3.789	
12,000.00	9,361.80	9,330.32	9,366.78	64.67	205.71	-89.121	141.20	3,164.76	830.85	585.19	245.66	3.382	
12,100.00	9,363.54	9,332.18	9,368.64	66.90	205.76	-89.352	141.18	3,164.76	749.74	499.33	250.41	2.994	
12,200.00	9,365.29	9,334.04	9,370.50	69.14	205.80	-89.583	141.16	3,164.76	673.73	417.67	256.05	2.631	
12,300.00	9,367.03	9,335.90	9,372.36	71.38	205.85	-89.814	141.14	3,164.76	604.72	342.11	262.61	2.303	
12,400.00	9,368.78	9,337.76	9,374.22	73.63	205.90	-90.045	141.12	3,164.76	545.41	275.56	269.85	2.021	
12,500.00	9,370.52	9,339.62	9,376.08	75.88	205.94	-90.276	141.09	3,164.76	499.24	222.14	277.10	1.802	
12,600.00	9,372.27	9,341.48	9,377.94	78.14	205.99	-90.507	141.07	3,164.76	470.11	187.01	283.10	1.661	
12,691.22	9,373.86	9,343.17	9,379.63	80.20	206.03	-90.717	141.05	3,164.76	461.18	174.96	286.22	1.611 CC	
12,700.00	9,374.01	9,343.34	9,379.79	80.39	206.04	-90.737	141.05	3,164.76	461.26	174.89	286.37	1.611 ES, SF	
12,800.00	9,375.76	9,345.20	9,381.65	82.65	206.08	-90.968	141.03	3,164.76	473.83	187.69	286.14	1.656	
12,900.00	9,377.50	9,347.05	9,383.51	84.92	206.13	-91.199	141.00	3,164.76	506.22	223.27	282.95	1.789	
13,000.00	9,379.25	9,348.91	9,385.36	87.18	206.17	-91.429	140.98	3,164.76	554.98	276.88	278.09	1.996	
13,100.00	9,380.99	9,350.77	9,387.22	89.45	206.22	-91.660	140.95	3,164.76	616.22	343.46	272.76	2.259	
13,200.00	9,382.74	9,352.62	9,389.07	91.72	206.27	-91.890	140.93	3,164.76	686.63	418.97	267.66	2.565	
13,300.00	9,384.48	9,354.48	9,390.93	93.99	206.31	-92.120	140.90	3,164.76	763.66	500.56	263.10	2.903	
13,400.00	9,386.23	9,356.33	9,392.78	96.26	206.36	-92.351	140.87	3,164.76	845.51	586.36	259.15	3.263	
13,500.00	9,387.97	9,358.19	9,394.64	98.53	206.41	-92.581	140.85	3,164.76	930.91	675.14	255.77	3.640	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Julius 1 - OH - Surveys													Offset Site Error:	0.00 usft
Survey Program:		150-INC-ONLY					Rule Assigned:				Offset Well Error:	1.00 usft		
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)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
13,600.00	9,389.72	9,360.04	9,396.49	100.81	206.45	-92.811	140.82	3,164.76	1,018.97	766.07	252.90	4.029		
13,700.00	9,391.47	9,361.89	9,398.34	103.09	206.50	-93.041	140.79	3,164.76	1,109.05	858.59	250.46	4.428		
13,800.00	9,393.21	9,363.75	9,400.20	105.36	206.55	-93.271	140.77	3,164.76	1,200.70	952.33	248.37	4.834		
13,900.00	9,394.96	9,365.60	9,402.05	107.64	206.59	-93.500	140.74	3,164.76	1,293.58	1,047.00	246.58	5.246		
14,000.00	9,396.70	9,367.45	9,403.90	109.92	206.64	-93.730	140.71	3,164.76	1,387.46	1,142.41	245.05	5.662		
14,100.00	9,398.45	9,369.31	9,405.75	112.21	206.68	-93.959	140.68	3,164.76	1,482.13	1,238.41	243.72	6.081		
14,200.00	9,400.19	9,371.16	9,407.60	114.49	206.73	-94.188	140.65	3,164.76	1,577.45	1,334.89	242.57	6.503		
14,300.00	9,401.94	9,373.01	9,409.45	116.77	206.78	-94.418	140.62	3,164.76	1,673.33	1,431.76	241.56	6.927		
14,400.00	9,403.68	9,374.86	9,411.30	119.06	206.82	-94.646	140.59	3,164.76	1,769.65	1,528.97	240.68	7.353		
14,500.00	9,405.43	9,376.71	9,413.15	121.34	206.87	-94.875	140.55	3,164.76	1,866.36	1,626.45	239.91	7.779		
14,600.00	9,407.17	9,378.56	9,415.00	123.63	206.92	-95.104	140.52	3,164.76	1,963.40	1,724.16	239.24	8.207		
14,700.00	9,408.92	9,380.41	9,416.85	125.91	206.96	-95.332	140.49	3,164.76	2,060.72	1,822.08	238.64	8.635		
14,800.00	9,410.66	9,382.26	9,418.70	128.20	207.01	-95.561	140.46	3,164.76	2,158.29	1,920.17	238.12	9.064		
14,900.00	9,412.41	9,384.11	9,420.55	130.49	207.06	-95.789	140.42	3,164.76	2,256.06	2,018.41	237.66	9.493		
15,000.00	9,414.15	9,385.96	9,422.40	132.78	207.10	-96.016	140.39	3,164.76	2,354.02	2,116.78	237.25	9.922		
15,100.00	9,415.90	9,379.49	9,415.90	135.06	206.94	-95.214	140.52	3,164.76	2,452.16	2,215.43	236.73	10.359		
15,200.00	9,417.64	9,381.24	9,417.64	137.35	206.99	-95.429	140.52	3,164.76	2,550.44	2,314.02	236.42	10.788		
15,300.00	9,419.39	9,382.98	9,419.39	139.64	207.04	-95.645	140.52	3,164.76	2,648.84	2,412.70	236.14	11.217		
15,400.00	9,421.13	9,384.73	9,421.13	141.94	207.09	-95.859	140.52	3,164.76	2,747.36	2,511.46	235.90	11.646		
15,500.00	9,422.88	9,386.47	9,422.88	144.23	207.14	-96.074	140.52	3,164.76	2,845.98	2,610.29	235.69	12.075		
15,600.00	9,424.62	9,388.22	9,424.62	146.52	207.19	-96.289	140.52	3,164.76	2,944.69	2,709.18	235.50	12.504		
15,700.00	9,426.37	9,389.97	9,426.37	148.81	207.24	-96.503	140.52	3,164.76	3,043.48	2,808.14	235.34	12.932		
15,800.00	9,428.12	9,391.71	9,428.12	151.10	207.29	-96.717	140.52	3,164.76	3,142.35	2,907.14	235.21	13.360		
15,900.00	9,429.86	9,393.46	9,429.86	153.40	207.34	-96.931	140.52	3,164.76	3,241.29	3,006.20	235.09	13.788		
16,000.00	9,431.61	9,395.20	9,431.61	155.69	207.39	-97.145	140.52	3,164.76	3,340.29	3,105.30	234.99	14.215		
16,100.00	9,433.35	9,396.95	9,433.35	157.98	207.44	-97.359	140.52	3,164.76	3,439.35	3,204.44	234.91	14.641		
16,200.00	9,435.10	9,398.69	9,435.10	160.28	207.49	-97.572	140.52	3,164.76	3,538.45	3,303.61	234.84	15.067		
16,300.00	9,436.84	9,400.44	9,436.84	162.57	207.54	-97.785	140.52	3,164.76	3,637.61	3,402.82	234.79	15.493		
16,400.00	9,438.59	9,402.18	9,438.59	164.87	207.59	-97.998	140.52	3,164.76	3,736.81	3,502.06	234.75	15.918		
16,500.00	9,440.33	9,403.93	9,440.33	167.16	207.64	-98.211	140.52	3,164.76	3,836.06	3,601.33	234.73	16.343		
16,600.00	9,442.08	9,405.67	9,442.08	169.46	207.70	-98.423	140.52	3,164.76	3,935.34	3,700.62	234.71	16.767		
16,700.00	9,443.82	9,407.42	9,443.82	171.75	207.75	-98.636	140.52	3,164.76	4,034.65	3,799.94	234.71	17.190		
16,800.00	9,445.57	9,409.16	9,445.57	174.05	207.80	-98.848	140.52	3,164.76	4,134.00	3,899.28	234.72	17.613		
16,900.00	9,447.31	9,410.91	9,447.31	176.34	207.85	-99.060	140.52	3,164.76	4,233.37	3,998.64	234.73	18.035		
17,000.00	9,449.06	9,412.65	9,449.06	178.64	207.90	-99.271	140.52	3,164.76	4,332.78	4,098.02	234.76	18.457		
17,100.00	9,450.80	9,414.40	9,450.80	180.94	207.95	-99.482	140.52	3,164.76	4,432.21	4,197.42	234.79	18.878		
17,200.00	9,452.55	9,416.14	9,452.55	183.23	208.00	-99.693	140.52	3,164.76	4,531.66	4,296.84	234.83	19.298		
17,300.00	9,454.29	9,417.89	9,454.29	185.53	208.05	-99.904	140.52	3,164.76	4,631.14	4,396.27	234.87	19.718		
17,400.00	9,456.04	9,419.63	9,456.04	187.83	208.10	-100.115	140.52	3,164.76	4,730.64	4,495.72	234.93	20.137		
17,500.00	9,457.78	9,421.38	9,457.78	190.12	208.15	-100.325	140.52	3,164.76	4,830.16	4,595.18	234.99	20.555		
17,600.00	9,459.53	9,423.12	9,459.53	192.42	208.20	-100.535	140.52	3,164.76	4,929.70	4,694.65	235.05	20.973		
17,700.00	9,461.27	9,424.87	9,461.27	194.72	208.25	-100.745	140.52	3,164.76	5,029.26	4,794.14	235.12	21.390		
17,800.00	9,463.02	9,426.62	9,463.02	197.02	208.30	-100.954	140.52	3,164.76	5,128.83	4,893.63	235.20	21.807		
17,900.00	9,464.77	9,428.36	9,464.77	199.32	208.35	-101.163	140.52	3,164.76	5,228.42	4,993.14	235.28	22.222		
18,000.00	9,466.51	9,430.11	9,466.51	201.61	208.40	-101.372	140.52	3,164.76	5,328.02	5,092.66	235.36	22.637		
18,100.00	9,468.26	9,431.85	9,468.26	203.91	208.45	-101.580	140.52	3,164.76	5,427.64	5,192.18	235.45	23.052		
18,200.00	9,470.00	9,433.60	9,470.00	206.21	208.50	-101.788	140.52	3,164.76	5,527.27	5,291.72	235.55	23.466		
18,300.00	9,471.75	9,435.34	9,471.75	208.51	208.55	-101.996	140.52	3,164.76	5,626.91	5,391.27	235.65	23.879		
18,400.00	9,473.49	9,437.09	9,473.49	210.81	208.60	-102.204	140.52	3,164.76	5,726.57	5,490.82	235.75	24.291		
18,500.00	9,475.24	9,438.83	9,475.24	213.11	208.65	-102.411	140.52	3,164.76	5,826.23	5,590.38	235.85	24.703		
18,600.00	9,476.98	9,440.58	9,476.98	215.41	208.70	-102.618	140.52	3,164.76	5,925.91	5,689.95	235.96	25.114		
18,700.00	9,478.73	9,442.32	9,478.73	217.71	208.75	-102.824	140.52	3,164.76	6,025.60	5,789.52	236.08	25.524		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Julius 1 - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 150-INC-ONLY													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				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	
18,800.00	9,480.47	9,444.07	9,480.47	220.01	208.80	-103.031	140.52	3,164.76	6,125.29	5,889.10	236.19	25.933	
18,900.00	9,482.22	9,445.81	9,482.22	222.31	208.85	-103.236	140.52	3,164.76	6,225.00	5,988.69	236.31	26.342	
19,000.00	9,483.96	9,447.56	9,483.96	224.61	208.90	-103.442	140.52	3,164.76	6,324.72	6,088.28	236.44	26.750	
19,100.00	9,485.71	9,449.30	9,485.71	226.91	208.95	-103.647	140.52	3,164.76	6,424.44	6,187.88	236.56	27.158	
19,200.00	9,487.45	9,451.05	9,487.45	229.21	209.00	-103.852	140.52	3,164.76	6,524.17	6,287.48	236.69	27.564	
19,300.00	9,489.20	9,452.79	9,489.20	231.51	209.05	-104.056	140.52	3,164.76	6,623.91	6,387.09	236.82	27.970	
19,355.56	9,490.17	9,453.76	9,490.17	232.78	209.08	-104.170	140.52	3,164.76	6,679.32	6,442.43	236.89	28.196	



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Kelly 5 Com 1 - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 200-INC-ONLY													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	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)			
0.00	0.00	0.00	47.30	1.00	1.00	82.823	1,030.96	8,187.72	8,252.51				
100.00	100.00	52.70	100.00	1.13	1.29	82.823	1,030.96	8,187.72	8,252.37	8,249.95	2.42	3,407.629	
200.00	200.00	152.70	200.00	1.66	2.56	82.823	1,030.96	8,187.72	8,252.37	8,248.15	4.22	1,956.651	
300.00	300.00	252.71	300.00	2.06	4.22	82.823	1,030.96	8,187.72	8,252.37	8,246.10	6.28	1,314.902	
400.00	400.00	356.53	403.82	2.39	6.18	82.822	1,031.19	8,187.72	8,252.40	8,243.83	8.57	962.971	
500.00	500.00	452.73	500.00	2.69	7.94	82.823	1,030.96	8,187.72	8,252.37	8,241.74	10.63	775.998	
600.00	600.00	552.74	600.00	2.96	9.86	82.823	1,030.96	8,187.72	8,252.37	8,239.55	12.82	643.736	
700.00	700.00	652.74	700.00	3.21	11.95	82.823	1,030.96	8,187.72	8,252.37	8,237.22	15.16	544.521	
800.00	800.00	755.03	802.29	3.44	14.08	82.822	1,031.23	8,187.72	8,252.41	8,234.88	17.53	470.879	
900.00	900.00	852.75	900.00	3.66	16.48	82.823	1,030.96	8,187.72	8,252.37	8,232.23	20.14	409.744	
1,000.00	1,000.00	952.75	1,000.00	3.87	20.55	82.823	1,030.96	8,187.72	8,252.37	8,227.95	24.42	337.889	
1,100.00	1,100.00	1,052.75	1,100.00	4.07	24.63	82.823	1,030.96	8,187.72	8,252.37	8,223.67	28.70	287.547	
1,200.00	1,200.00	1,152.75	1,200.00	4.26	28.70	82.823	1,030.96	8,187.72	8,252.37	8,219.40	32.97	250.311	
1,300.00	1,300.00	1,252.84	1,300.10	4.45	32.79	82.820	1,031.40	8,187.72	8,252.43	8,215.19	37.24	221.627	
1,300.04	1,300.04	1,252.88	1,300.14	4.45	32.79	82.820	1,031.40	8,187.72	8,252.43	8,215.19	37.24	221.617	
1,400.00	1,399.98	1,353.39	1,400.64	4.72	36.89	-145.895	1,031.36	8,187.72	8,253.87	8,212.29	41.58	198.529	
1,500.00	1,499.84	1,453.82	1,501.07	4.99	40.98	-145.866	1,031.27	8,187.72	8,258.19	8,212.29	45.90	179.922	
1,600.00	1,599.45	1,554.01	1,601.26	5.27	45.07	-145.818	1,031.12	8,187.72	8,265.39	8,215.17	50.22	164.569	
1,700.00	1,698.70	1,651.47	1,698.70	5.57	48.65	-145.749	1,030.96	8,187.72	8,275.47	8,221.42	54.06	153.090	
1,800.00	1,797.47	1,750.92	1,798.16	5.89	50.16	-145.665	1,031.18	8,187.72	8,288.48	8,232.65	55.83	148.459	
1,899.79	1,895.42	1,848.29	1,895.42	6.23	51.71	-145.556	1,030.96	8,187.72	8,304.25	8,246.60	57.65	144.038	
1,900.00	1,895.62	1,848.50	1,895.62	6.23	51.71	-145.556	1,030.96	8,187.72	8,304.29	8,246.63	57.66	144.027	
2,000.00	1,993.44	1,946.36	1,993.44	6.51	53.69	-145.636	1,030.96	8,187.72	8,321.55	8,261.66	59.89	138.937	
2,100.00	2,091.26	2,062.34	2,109.30	6.81	56.28	-145.733	1,031.26	8,187.72	8,338.90	8,276.14	62.75	132.882	
2,200.00	2,189.07	2,142.22	2,189.07	7.13	58.42	-145.796	1,030.96	8,187.72	8,356.14	8,290.95	65.19	128.188	
2,300.00	2,286.89	2,240.29	2,286.89	7.47	61.22	-145.875	1,030.96	8,187.72	8,373.45	8,305.16	68.29	122.613	
2,400.00	2,384.70	2,340.00	2,386.37	7.82	64.36	-145.956	1,030.96	8,187.72	8,390.78	8,319.04	71.75	116.946	
2,500.00	2,482.52	2,445.50	2,491.79	8.18	67.14	-146.042	1,031.17	8,187.72	8,408.17	8,333.30	74.86	112.313	
2,600.00	2,580.34	2,534.13	2,580.34	8.56	69.37	-146.112	1,030.96	8,187.72	8,425.49	8,348.06	77.44	108.804	
2,700.00	2,678.15	2,632.00	2,678.15	8.94	71.76	-146.190	1,030.96	8,187.72	8,442.87	8,362.70	80.17	105.309	
2,800.00	2,775.97	2,745.82	2,791.96	9.33	74.58	-146.281	1,031.09	8,187.72	8,460.30	8,376.95	83.35	101.500	
2,900.00	2,873.79	2,827.72	2,873.79	9.73	76.41	-146.345	1,030.96	8,187.72	8,477.67	8,392.13	85.54	99.104	
3,000.00	2,971.60	2,939.26	2,985.28	10.14	78.86	-146.438	1,031.74	8,187.72	8,495.22	8,406.85	88.37	96.133	
3,100.00	3,069.42	3,023.44	3,069.42	10.55	80.53	-146.499	1,030.96	8,187.72	8,512.54	8,422.12	90.42	94.145	
3,200.00	3,167.23	3,126.45	3,172.43	10.97	82.25	-146.581	1,031.13	8,187.72	8,530.02	8,437.50	92.52	92.195	
3,300.00	3,265.05	3,219.09	3,265.05	11.39	83.82	-146.652	1,030.96	8,187.72	8,547.46	8,452.99	94.48	90.473	
3,400.00	3,362.87	3,321.33	3,367.29	11.81	85.56	-146.733	1,031.22	8,187.72	8,564.98	8,468.37	96.61	88.656	
3,500.00	3,460.68	3,414.74	3,460.68	12.24	87.17	-146.803	1,030.96	8,187.72	8,582.44	8,483.83	98.61	87.034	
3,600.00	3,558.50	3,512.55	3,558.50	12.68	88.87	-146.879	1,030.96	8,187.72	8,599.96	8,499.25	100.71	85.393	
3,700.00	3,656.32	3,610.54	3,656.48	13.11	90.57	-146.959	1,031.73	8,187.72	8,617.60	8,514.78	102.82	83.815	
3,800.00	3,754.13	3,712.16	3,758.09	13.55	92.34	-147.035	1,031.57	8,187.72	8,635.12	8,530.13	104.99	82.248	
3,831.13	3,784.58	3,743.81	3,789.74	13.67	92.89	-147.059	1,031.46	8,187.72	8,640.57	8,534.91	105.65	81.782	
3,900.00	3,852.11	3,814.03	3,859.96	13.97	94.11	-147.232	1,031.12	8,187.72	8,651.92	8,544.78	107.14	80.752	
4,000.00	3,950.70	3,904.78	3,950.70	14.43	95.50	-147.439	1,030.96	8,187.72	8,666.02	8,557.09	108.93	79.554	
4,100.00	4,049.82	4,004.47	4,050.40	14.86	96.92	-147.608	1,031.11	8,187.72	8,677.25	8,566.50	110.75	78.350	
4,200.00	4,149.33	4,106.21	4,152.13	15.28	98.38	-147.731	1,030.98	8,187.72	8,685.52	8,572.95	112.57	77.157	
4,300.00	4,249.13	4,203.20	4,249.13	15.65	99.95	-147.810	1,030.96	8,187.72	8,690.86	8,576.40	114.46	75.931	
4,400.00	4,349.08	4,303.16	4,349.08	15.97	101.58	-147.845	1,030.96	8,187.72	8,693.25	8,576.89	116.36	74.713	
4,430.92	4,380.00	4,334.33	4,380.25	16.00	102.09	80.876	1,031.18	8,187.72	8,693.42	8,576.53	116.89	74.372	
4,500.00	4,449.08	4,404.45	4,450.37	16.02	103.23	80.876	1,031.14	8,187.72	8,693.42	8,575.37	118.05	73.640	
4,600.00	4,549.08	4,505.96	4,551.88	16.06	104.88	80.877	1,030.99	8,187.72	8,693.39	8,573.64	119.75	72.595	
4,648.94	4,598.02	4,552.11	4,598.02	16.08	105.73	80.877	1,030.96	8,187.72	8,693.39	8,572.77	120.62	72.073	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Kelly 5 Com 1 - OH - Surveys												Offset Site Error:	0.00 usft
Survey Program: 200-INC-ONLY												Offset Well Error:	1.00 usft
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	
4,700.00	4,649.08	4,603.17	4,649.08	16.10	106.71	80.877	1,030.96	8,187.72	8,693.39	8,571.77	121.62	71.478	
4,800.00	4,749.08	4,703.17	4,749.08	16.15	108.63	80.877	1,030.96	8,187.72	8,693.39	8,569.80	123.59	70.340	
4,900.00	4,849.08	4,805.02	4,850.93	16.19	110.59	80.875	1,031.39	8,187.72	8,693.46	8,567.86	125.59	69.219	
5,000.00	4,949.08	4,907.86	4,953.77	16.24	112.56	80.876	1,031.15	8,187.72	8,693.42	8,565.80	127.62	68.122	
5,100.00	5,049.08	5,003.20	5,049.08	16.28	114.84	80.877	1,030.96	8,187.72	8,693.39	8,563.46	129.93	66.907	
5,200.00	5,149.08	5,103.20	5,149.08	16.33	117.69	80.877	1,030.96	8,187.72	8,693.39	8,560.56	132.83	65.446	
5,300.00	5,249.08	5,203.20	5,249.08	16.37	120.54	80.877	1,030.96	8,187.72	8,693.39	8,557.66	135.73	64.048	
5,400.00	5,349.08	5,303.20	5,349.08	16.42	123.39	80.877	1,030.96	8,187.72	8,693.39	8,554.76	138.63	62.708	
5,500.00	5,449.08	5,404.06	5,449.92	16.46	126.27	80.866	1,032.78	8,187.72	8,693.68	8,552.12	141.56	61.414	
5,600.00	5,549.08	5,507.04	5,552.90	16.51	129.21	80.867	1,032.61	8,187.72	8,693.65	8,549.11	144.55	60.145	
5,700.00	5,649.08	5,610.03	5,655.88	16.55	132.15	80.869	1,032.21	8,187.72	8,693.59	8,546.06	147.53	58.927	
5,800.00	5,749.08	5,713.02	5,758.86	16.60	135.09	80.873	1,031.59	8,187.72	8,693.49	8,542.98	150.52	57.757	
5,900.00	5,849.08	5,803.37	5,849.08	16.65	137.59	80.877	1,030.96	8,187.72	8,693.39	8,540.31	153.07	56.792	
6,000.00	5,949.08	5,903.37	5,949.08	16.70	139.79	80.877	1,030.96	8,187.72	8,693.39	8,538.07	155.32	55.972	
6,100.00	6,049.08	6,009.42	6,055.12	16.74	142.12	80.873	1,031.67	8,187.72	8,693.50	8,535.81	157.70	55.128	
6,200.00	6,149.08	6,103.46	6,149.08	16.79	144.18	80.877	1,030.96	8,187.72	8,693.39	8,533.58	159.81	54.399	
6,300.00	6,249.08	6,203.46	6,249.08	16.84	146.46	80.877	1,030.96	8,187.72	8,693.39	8,531.26	162.13	53.619	
6,400.00	6,349.08	6,303.46	6,349.08	16.89	148.73	80.877	1,030.96	8,187.72	8,693.39	8,528.93	164.46	52.860	
6,500.00	6,449.08	6,406.18	6,451.78	16.94	151.07	80.866	1,032.66	8,187.72	8,693.66	8,526.81	166.85	52.105	
6,600.00	6,549.08	6,513.56	6,559.15	16.98	153.51	80.870	1,032.16	8,187.72	8,693.58	8,524.24	169.34	51.337	
6,700.00	6,649.08	6,620.96	6,666.52	17.03	155.96	80.877	1,031.09	8,187.72	8,693.43	8,521.59	171.84	50.590	
6,726.99	6,676.07	6,649.94	6,695.50	17.05	156.62	80.879	1,030.71	8,187.72	8,693.37	8,520.86	172.51	50.393	
6,800.00	6,749.08	6,703.58	6,749.08	17.08	158.19	80.877	1,030.96	8,187.72	8,693.39	8,519.27	174.12	49.928	
6,900.00	6,849.08	6,803.58	6,849.08	17.13	160.95	80.877	1,030.96	8,187.72	8,693.39	8,516.46	176.93	49.134	
7,000.00	6,949.08	6,905.11	6,950.60	17.18	163.75	80.871	1,032.01	8,187.72	8,693.56	8,513.77	179.79	48.354	
7,100.00	7,049.08	7,010.33	7,055.81	17.23	166.66	80.873	1,031.69	8,187.72	8,693.51	8,510.76	182.75	47.571	
7,200.00	7,149.08	7,115.57	7,161.04	17.28	169.57	80.877	1,030.98	8,187.72	8,693.40	8,507.69	185.71	46.813	
7,214.00	7,163.08	7,130.29	7,175.76	17.29	169.97	80.878	1,030.85	8,187.72	8,693.38	8,507.26	186.12	46.708	
7,300.00	7,249.08	7,203.94	7,249.08	17.33	172.45	80.877	1,030.96	8,187.72	8,693.39	8,504.74	188.65	46.083	
7,400.00	7,349.08	7,344.96	7,389.96	17.38	176.88	80.880	1,030.59	8,187.72	8,693.43	8,500.30	193.13	45.013	
7,423.62	7,372.70	7,327.69	7,372.70	17.40	176.34	80.877	1,030.96	8,187.72	8,693.39	8,500.79	192.60	45.138	
7,500.00	7,449.08	7,412.94	7,457.85	17.43	179.10	80.873	1,031.60	8,187.72	8,693.49	8,498.09	195.40	44.491	
7,540.59	7,489.67	7,444.77	7,489.67	17.46	180.14	80.877	1,030.96	8,187.72	8,693.39	8,496.94	196.45	44.252	
7,600.00	7,549.08	7,509.83	7,554.59	17.49	182.31	80.874	1,031.54	8,187.72	8,693.48	8,494.83	198.66	43.761	
7,700.00	7,649.08	7,604.41	7,649.08	17.54	185.39	80.877	1,030.96	8,187.72	8,693.39	8,491.59	201.80	43.080	
7,800.00	7,749.08	7,704.56	7,749.08	17.59	188.55	80.877	1,030.96	8,187.72	8,693.39	8,488.38	205.01	42.405	
7,900.00	7,849.08	7,804.61	7,849.08	17.64	191.37	80.877	1,030.96	8,187.72	8,693.39	8,485.51	207.88	41.819	
8,000.00	7,949.08	7,904.68	7,949.08	17.69	194.03	80.877	1,030.96	8,187.72	8,693.39	8,482.80	210.59	41.281	
8,100.00	8,049.08	8,004.73	8,049.08	17.75	196.71	80.877	1,030.96	8,187.72	8,693.39	8,480.06	213.33	40.751	
8,200.00	8,149.08	8,111.66	8,155.99	17.80	199.68	80.872	1,031.76	8,187.72	8,693.52	8,477.17	216.35	40.183	
8,300.00	8,249.08	8,204.85	8,249.08	17.85	202.30	80.877	1,030.96	8,187.72	8,693.39	8,474.36	219.03	39.690	
8,400.00	8,349.08	8,328.00	8,372.10	17.90	206.15	80.877	1,030.96	8,187.72	8,693.42	8,470.49	222.93	38.995	
8,425.56	8,374.64	8,330.54	8,374.64	17.92	206.23	80.877	1,030.96	8,187.72	8,693.39	8,470.37	223.02	38.980	
8,500.00	8,449.08	8,441.64	8,485.69	17.96	209.65	80.878	1,030.82	8,187.72	8,693.44	8,466.95	226.49	38.383	
8,527.10	8,476.18	8,432.12	8,476.18	17.97	209.36	80.877	1,030.96	8,187.72	8,693.39	8,467.18	226.21	38.431	
8,600.00	8,549.08	8,518.51	8,562.50	18.01	211.78	80.875	1,031.28	8,187.72	8,693.45	8,464.77	228.68	38.016	
8,700.00	8,649.08	8,605.14	8,649.08	18.06	214.15	80.877	1,030.96	8,187.72	8,693.39	8,462.30	231.09	37.619	
8,799.52	8,748.60	8,704.74	8,748.60	18.12	216.82	80.877	1,030.96	8,187.72	8,693.39	8,459.56	233.82	37.179	
8,800.00	8,749.08	8,705.22	8,749.08	18.12	216.83	-8.684	1,030.96	8,187.72	8,693.39	8,459.55	233.84	37.177	
8,850.00	8,799.02	8,755.15	8,799.02	18.11	218.14	-8.720	1,030.96	8,187.72	8,691.19	8,456.04	235.15	36.960	
8,900.00	8,848.57	8,808.36	8,852.20	18.03	219.53	-8.832	1,031.73	8,187.72	8,684.82	8,448.35	236.48	36.726	
8,950.00	8,897.36	8,869.66	8,913.49	17.94	221.13	-9.015	1,031.29	8,187.72	8,674.04	8,436.03	238.00	36.445	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Kelly 5 Com 1 - OH - Surveys												Offset Site Error:	0.00 usft
Survey Program: 200-INC-ONLY												Offset Well Error:	1.00 usft
Reference												Rule Assigned:	
Offset												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,000.00	8,945.01	8,901.25	8,945.01	17.84	221.97	-9.272	1,030.96	8,187.72	8,659.07	8,420.33	238.74	36.270	
9,050.00	8,991.18	8,947.43	8,991.18	17.75	223.22	-9.629	1,030.96	8,187.72	8,640.13	8,400.22	239.90	36.015	
9,100.00	9,035.50	8,997.72	9,041.46	17.65	224.59	-10.103	1,031.47	8,187.72	8,617.36	8,376.19	241.18	35.731	
9,150.00	9,077.63	9,067.01	9,110.73	17.56	226.47	-10.719	1,030.49	8,187.72	8,590.69	8,347.72	242.97	35.357	
9,200.00	9,117.26	9,073.57	9,117.26	17.49	226.59	-11.458	1,030.96	8,187.72	8,560.60	8,317.60	243.00	35.229	
9,250.00	9,154.08	9,113.87	9,157.55	17.43	227.60	-12.444	1,031.41	8,187.72	8,527.27	8,283.34	243.93	34.957	
9,300.00	9,187.82	9,165.87	9,209.53	17.40	228.91	-13.735	1,030.93	8,187.72	8,490.79	8,245.61	245.17	34.632	
9,350.00	9,218.22	9,174.58	9,218.22	17.41	229.11	-15.346	1,030.96	8,187.72	8,451.56	8,206.26	245.31	34.453	
9,400.00	9,245.04	9,201.40	9,245.04	17.47	229.73	-17.562	1,030.96	8,187.72	8,409.90	8,164.02	245.88	34.204	
9,450.00	9,268.08	9,224.44	9,268.08	17.58	230.27	-20.635	1,030.96	8,187.72	8,366.09	8,119.72	246.37	33.957	
9,500.00	9,287.17	9,249.12	9,292.75	17.76	230.84	-25.135	1,031.35	8,187.72	8,320.53	8,073.61	246.92	33.697	
9,550.00	9,302.16	9,269.87	9,313.49	18.02	231.32	-32.054	1,031.22	8,187.72	8,273.44	8,026.04	247.39	33.443	
9,600.00	9,312.94	9,284.78	9,328.40	18.35	231.67	-43.402	1,031.08	8,187.72	8,225.23	7,977.49	247.74	33.201	
9,650.00	9,319.42	9,293.74	9,337.36	18.76	231.88	-62.656	1,030.97	8,187.72	8,176.30	7,928.32	247.97	32.972	
9,689.52	9,321.47	9,296.58	9,340.20	19.14	231.94	-84.714	1,030.93	8,187.72	8,137.34	7,889.28	248.07	32.803	
9,700.00	9,321.66	9,296.83	9,340.45	19.25	231.95	-84.725	1,030.93	8,187.72	8,127.01	7,878.92	248.08	32.759	
9,800.00	9,323.40	9,299.23	9,342.85	20.40	232.00	-84.829	1,030.89	8,187.72	8,028.35	7,780.12	248.23	32.342	
9,900.00	9,325.15	9,301.63	9,345.25	21.76	232.06	-84.933	1,030.86	8,187.72	7,929.72	7,681.33	248.39	31.925	
10,000.00	9,326.89	9,304.03	9,347.64	23.28	232.11	-85.036	1,030.82	8,187.72	7,831.13	7,582.56	248.56	31.506	
10,100.00	9,328.64	9,306.42	9,350.04	24.93	232.17	-85.140	1,030.79	8,187.72	7,732.57	7,483.82	248.75	31.085	
10,200.00	9,330.38	9,308.82	9,352.44	26.69	232.23	-85.244	1,030.75	8,187.72	7,634.05	7,385.09	248.96	30.664	
10,300.00	9,332.13	9,311.21	9,354.83	28.53	232.28	-85.347	1,030.71	8,187.72	7,535.57	7,286.39	249.18	30.242	
10,400.00	9,333.87	9,313.61	9,357.22	30.44	232.34	-85.451	1,030.67	8,187.72	7,437.13	7,187.71	249.41	29.819	
10,500.00	9,335.62	9,316.00	9,359.62	32.40	232.39	-85.555	1,030.63	8,187.72	7,338.73	7,089.06	249.67	29.394	
10,600.00	9,337.36	9,318.39	9,362.01	34.41	232.45	-85.658	1,030.58	8,187.72	7,240.37	6,990.43	249.94	28.969	
10,700.00	9,339.11	9,295.51	9,339.11	36.45	231.92	-84.667	1,030.96	8,187.72	7,142.10	6,892.48	249.61	28.613	
10,800.00	9,340.85	9,297.25	9,340.85	38.52	231.96	-84.743	1,030.96	8,187.72	7,043.84	6,793.93	249.91	28.186	
10,900.00	9,342.60	9,299.00	9,342.60	40.62	232.00	-84.818	1,030.96	8,187.72	6,945.63	6,695.41	250.22	27.759	
11,000.00	9,344.34	9,300.75	9,344.34	42.74	232.04	-84.894	1,030.96	8,187.72	6,847.47	6,596.92	250.55	27.330	
11,100.00	9,346.09	9,302.49	9,346.09	44.88	232.08	-84.969	1,030.96	8,187.72	6,749.37	6,498.47	250.90	26.901	
11,200.00	9,347.83	9,304.24	9,347.83	47.04	232.12	-85.045	1,030.96	8,187.72	6,651.32	6,400.05	251.27	26.470	
11,300.00	9,349.58	9,305.98	9,349.58	49.21	232.16	-85.121	1,030.96	8,187.72	6,553.33	6,301.66	251.67	26.039	
11,400.00	9,351.32	9,307.73	9,351.32	51.39	232.20	-85.196	1,030.96	8,187.72	6,455.41	6,203.31	252.09	25.607	
11,500.00	9,353.07	9,309.47	9,353.07	53.58	232.24	-85.272	1,030.96	8,187.72	6,357.54	6,105.01	252.53	25.175	
11,600.00	9,354.82	9,311.22	9,354.82	55.79	232.28	-85.348	1,030.96	8,187.72	6,259.75	6,006.74	253.00	24.742	
11,700.00	9,356.56	9,312.96	9,356.56	58.00	232.32	-85.423	1,030.96	8,187.72	6,162.02	5,908.52	253.50	24.308	
11,800.00	9,358.31	9,314.71	9,358.31	60.21	232.36	-85.499	1,030.96	8,187.72	6,064.37	5,810.35	254.02	23.874	
11,900.00	9,360.05	9,316.45	9,360.05	62.44	232.40	-85.575	1,030.96	8,187.72	5,966.79	5,712.23	254.57	23.439	
12,000.00	9,361.80	9,318.20	9,361.80	64.67	232.44	-85.650	1,030.96	8,187.72	5,869.30	5,614.15	255.14	23.004	
12,100.00	9,363.54	9,319.94	9,363.54	66.90	232.49	-85.726	1,030.96	8,187.72	5,771.89	5,516.14	255.75	22.569	
12,200.00	9,365.29	9,321.69	9,365.29	69.14	232.53	-85.802	1,030.96	8,187.72	5,674.57	5,418.18	256.38	22.133	
12,300.00	9,367.03	9,323.43	9,367.03	71.38	232.57	-85.878	1,030.96	8,187.72	5,577.34	5,320.29	257.05	21.697	
12,400.00	9,368.78	9,325.18	9,368.78	73.63	232.61	-85.953	1,030.96	8,187.72	5,480.22	5,222.46	257.75	21.261	
12,500.00	9,370.52	9,326.92	9,370.52	75.88	232.65	-86.029	1,030.96	8,187.72	5,383.20	5,124.71	258.49	20.826	
12,600.00	9,372.27	9,328.67	9,372.27	78.14	232.69	-86.105	1,030.96	8,187.72	5,286.29	5,027.02	259.26	20.390	
12,700.00	9,374.01	9,330.41	9,374.01	80.39	232.73	-86.181	1,030.96	8,187.72	5,189.49	4,929.42	260.07	19.954	
12,800.00	9,375.76	9,332.16	9,375.76	82.65	232.77	-86.257	1,030.96	8,187.72	5,092.82	4,831.90	260.92	19.519	
12,900.00	9,377.50	9,333.91	9,377.50	84.92	232.81	-86.333	1,030.96	8,187.72	4,996.28	4,734.47	261.81	19.084	
13,000.00	9,379.25	9,335.65	9,379.25	87.18	232.85	-86.408	1,030.96	8,187.72	4,899.88	4,637.14	262.74	18.649	
13,100.00	9,380.99	9,337.40	9,380.99	89.45	232.89	-86.484	1,030.96	8,187.72	4,803.62	4,539.91	263.72	18.215	
13,200.00	9,382.74	9,339.14	9,382.74	91.72	232.93	-86.560	1,030.96	8,187.72	4,707.52	4,442.78	264.74	17.782	
13,300.00	9,384.48	9,340.89	9,384.48	93.99	232.97	-86.636	1,030.96	8,187.72	4,611.59	4,345.77	265.81	17.349	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Kelly 5 Com 1 - OH - Surveys													Offset Site Error:	0.00 usft
Survey Program:		200-INC-ONLY							Rule Assigned:				Offset Well Error:	1.00 usft
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	Warning	
13,400.00	9,386.23	9,342.63	9,386.23	96.26	233.01	-86.712	1,030.96	8,187.72	4,515.83	4,248.89	266.94	16.917		
13,500.00	9,387.97	9,344.38	9,387.97	98.53	233.05	-86.788	1,030.96	8,187.72	4,420.26	4,152.14	268.12	16.486		
13,600.00	9,389.72	9,346.12	9,389.72	100.81	233.09	-86.864	1,030.96	8,187.72	4,324.88	4,055.53	269.36	16.056		
13,700.00	9,391.47	9,347.87	9,391.47	103.09	233.13	-86.940	1,030.96	8,187.72	4,229.72	3,959.07	270.65	15.628		
13,800.00	9,393.21	9,349.61	9,393.21	105.36	233.17	-87.016	1,030.96	8,187.72	4,134.79	3,862.77	272.02	15.200		
13,900.00	9,394.96	9,351.36	9,394.96	107.64	233.22	-87.092	1,030.96	8,187.72	4,040.10	3,766.65	273.45	14.774		
14,000.00	9,396.70	9,353.10	9,396.70	109.92	233.26	-87.168	1,030.96	8,187.72	3,945.68	3,670.72	274.96	14.350		
14,100.00	9,398.45	9,354.85	9,398.45	112.21	233.30	-87.244	1,030.96	8,187.72	3,851.53	3,574.99	276.54	13.928		
14,200.00	9,400.19	9,356.59	9,400.19	114.49	233.34	-87.320	1,030.96	8,187.72	3,757.68	3,479.48	278.21	13.507		
14,300.00	9,401.94	9,358.34	9,401.94	116.77	233.38	-87.396	1,030.96	8,187.72	3,664.16	3,384.21	279.96	13.088		
14,400.00	9,403.68	9,360.08	9,403.68	119.06	233.42	-87.472	1,030.96	8,187.72	3,571.00	3,289.19	281.81	12.672		
14,500.00	9,405.43	9,361.83	9,405.43	121.34	233.46	-87.548	1,030.96	8,187.72	3,478.20	3,194.45	283.75	12.258		
14,600.00	9,407.17	9,363.57	9,407.17	123.63	233.50	-87.624	1,030.96	8,187.72	3,385.82	3,100.02	285.80	11.847		
14,700.00	9,408.92	9,365.41	9,409.00	125.91	233.54	-87.704	1,031.35	8,187.72	3,294.04	3,006.06	287.99	11.438		
14,800.00	9,410.66	9,367.60	9,411.20	128.20	233.59	-87.800	1,031.35	8,187.72	3,202.59	2,912.30	290.29	11.032		
14,900.00	9,412.41	9,369.80	9,413.39	130.49	233.64	-87.895	1,031.35	8,187.72	3,111.67	2,818.95	292.72	10.630		
15,000.00	9,414.15	9,371.99	9,415.59	132.78	233.69	-87.991	1,031.35	8,187.72	3,021.31	2,726.02	295.29	10.232		
15,100.00	9,415.90	9,374.19	9,417.78	135.06	233.75	-88.087	1,031.34	8,187.72	2,931.58	2,633.57	298.01	9.837		
15,200.00	9,417.64	9,376.38	9,419.98	137.35	233.80	-88.182	1,031.34	8,187.72	2,842.54	2,541.64	300.90	9.447		
15,300.00	9,419.39	9,378.58	9,422.17	139.64	233.85	-88.278	1,031.34	8,187.72	2,754.24	2,450.29	303.95	9.061		
15,400.00	9,421.13	9,380.77	9,424.36	141.94	233.90	-88.373	1,031.33	8,187.72	2,666.78	2,359.58	307.19	8.681		
15,500.00	9,422.88	9,382.96	9,426.55	144.23	233.95	-88.469	1,031.33	8,187.72	2,580.22	2,269.59	310.63	8.306		
15,600.00	9,424.62	9,385.15	9,428.74	146.52	234.00	-88.565	1,031.32	8,187.72	2,494.66	2,180.38	314.28	7.938		
15,700.00	9,426.37	9,387.34	9,430.93	148.81	234.05	-88.660	1,031.31	8,187.72	2,410.22	2,092.06	318.16	7.576		
15,800.00	9,428.12	9,389.53	9,433.12	151.10	234.10	-88.756	1,031.30	8,187.72	2,327.00	2,004.73	322.27	7.221		
15,900.00	9,429.86	9,391.72	9,435.31	153.40	234.15	-88.851	1,031.30	8,187.72	2,245.16	1,918.51	326.65	6.873		
16,000.00	9,431.61	9,393.91	9,437.50	155.69	234.20	-88.946	1,031.29	8,187.72	2,164.84	1,833.55	331.28	6.535		
16,100.00	9,433.35	9,396.10	9,439.69	157.98	234.25	-89.042	1,031.28	8,187.72	2,086.22	1,750.01	336.20	6.205		
16,200.00	9,435.10	9,398.29	9,441.88	160.28	234.31	-89.137	1,031.27	8,187.72	2,009.50	1,668.08	341.41	5.886		
16,300.00	9,436.84	9,400.47	9,444.06	162.57	234.36	-89.233	1,031.25	8,187.72	1,934.90	1,587.98	346.92	5.577		
16,400.00	9,438.59	9,402.66	9,446.25	164.87	234.41	-89.328	1,031.24	8,187.72	1,862.68	1,509.97	352.72	5.281		
16,500.00	9,440.33	9,404.84	9,448.43	167.16	234.46	-89.423	1,031.23	8,187.72	1,793.14	1,434.33	358.81	4.997		
16,600.00	9,442.08	9,407.03	9,450.62	169.46	234.51	-89.519	1,031.22	8,187.72	1,726.58	1,361.41	365.17	4.728		
16,700.00	9,443.82	9,409.21	9,452.80	171.75	234.56	-89.614	1,031.20	8,187.72	1,663.37	1,291.60	371.77	4.474		
16,800.00	9,445.57	9,411.40	9,454.99	174.05	234.61	-89.709	1,031.19	8,187.72	1,603.91	1,225.35	378.57	4.237		
16,900.00	9,447.31	9,413.58	9,457.17	176.34	234.66	-89.804	1,031.17	8,187.72	1,548.63	1,163.14	385.48	4.017		
17,000.00	9,449.06	9,415.76	9,459.35	178.64	234.71	-89.900	1,031.15	8,187.72	1,497.99	1,105.55	392.43	3.817		
17,100.00	9,450.80	9,417.94	9,461.53	180.94	234.76	-89.995	1,031.14	8,187.72	1,452.47	1,053.17	399.30	3.638		
17,200.00	9,452.55	9,420.13	9,463.71	183.23	234.81	-90.090	1,031.12	8,187.72	1,412.57	1,006.64	405.93	3.480		
17,300.00	9,454.29	9,422.31	9,465.89	185.53	234.86	-90.185	1,031.10	8,187.72	1,378.78	966.62	412.17	3.345		
17,400.00	9,456.04	9,424.49	9,468.07	187.83	234.91	-90.280	1,031.08	8,187.72	1,351.56	933.73	417.84	3.235		
17,500.00	9,457.78	9,426.67	9,470.25	190.12	234.96	-90.375	1,031.06	8,187.72	1,331.31	908.55	422.76	3.149		
17,600.00	9,459.53	9,428.84	9,472.43	192.42	235.02	-90.471	1,031.04	8,187.72	1,318.35	891.57	426.79	3.089		
17,700.00	9,461.27	9,431.02	9,474.61	194.72	235.07	-90.566	1,031.02	8,187.72	1,312.90	883.12	429.79	3.055		
17,721.74	9,461.65	9,431.50	9,475.08	195.22	235.08	-90.586	1,031.01	8,187.72	1,312.72	882.43	430.29	3.051 CC, ES		
17,800.00	9,463.02	9,433.20	9,476.79	197.02	235.12	-90.661	1,030.99	8,187.72	1,315.05	883.37	431.68	3.046 SF		
17,900.00	9,464.77	9,435.38	9,478.96	199.32	235.17	-90.756	1,030.97	8,187.72	1,324.77	892.32	432.45	3.063		
18,000.00	9,466.51	9,437.55	9,481.14	201.61	235.22	-90.851	1,030.95	8,187.72	1,341.88	909.75	432.13	3.105		
18,100.00	9,468.26	9,439.73	9,483.31	203.91	235.27	-90.945	1,030.92	8,187.72	1,366.11	935.31	430.81	3.171		
18,200.00	9,470.00	9,441.90	9,485.49	206.21	235.32	-91.040	1,030.90	8,187.72	1,397.10	968.49	428.61	3.260		
18,300.00	9,471.75	9,444.08	9,487.66	208.51	235.37	-91.135	1,030.87	8,187.72	1,434.40	1,008.72	425.68	3.370		
18,400.00	9,473.49	9,446.25	9,489.84	210.81	235.42	-91.230	1,030.84	8,187.72	1,477.53	1,055.36	422.17	3.500		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Kelly 5 Com 1 - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 200-INC-ONLY													Offset Well Error: 1.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				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	
18,500.00	9,475.24	9,448.42	9,492.01	213.11	235.47	-91.325	1,030.82	8,187.72	1,526.01	1,107.77	418.24	3.649	
18,600.00	9,476.98	9,450.60	9,494.18	215.41	235.52	-91.420	1,030.79	8,187.72	1,579.33	1,165.32	414.01	3.815	
18,700.00	9,478.73	9,452.77	9,496.35	217.71	235.57	-91.514	1,030.76	8,187.72	1,637.03	1,227.42	409.61	3.997	
18,800.00	9,480.47	9,436.92	9,480.47	220.01	235.20	-90.821	1,030.96	8,187.72	1,698.74	1,293.99	404.75	4.197	
18,900.00	9,482.22	9,438.66	9,482.22	222.31	235.25	-90.898	1,030.96	8,187.72	1,763.90	1,363.64	400.27	4.407	
19,000.00	9,483.96	9,440.41	9,483.96	224.61	235.29	-90.974	1,030.96	8,187.72	1,832.21	1,436.37	395.84	4.629	
19,100.00	9,485.71	9,442.15	9,485.71	226.91	235.33	-91.050	1,030.96	8,187.72	1,903.31	1,511.80	391.51	4.861	
19,200.00	9,487.45	9,443.90	9,487.45	229.21	235.37	-91.126	1,030.96	8,187.72	1,976.92	1,589.60	387.32	5.104	
19,300.00	9,489.20	9,445.64	9,489.20	231.51	235.42	-91.202	1,030.96	8,187.72	2,052.76	1,669.48	383.28	5.356	
19,355.56	9,490.17	9,446.61	9,490.17	232.78	235.44	-91.244	1,030.96	8,187.72	2,095.76	1,714.66	381.10	5.499	



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Swearingen A 1 - OH - Surveys														Offset Site Error: 0.00 usft
Survey Program: 140-INC-ONLY														Offset Well Error: 1.00 usft
Rule Assigned:														
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	Warning	
0.00	0.00	0.00	55.60	1.00	1.00	101.438	-1,645.30	8,132.15	8,297.11					
100.00	100.00	44.40	100.00	1.13	1.13	101.438	-1,645.30	8,132.15	8,296.92	8,294.66	2.27	3,661.154		
200.00	200.00	144.40	200.00	1.66	2.02	101.438	-1,645.30	8,132.15	8,296.92	8,293.24	3.68	2,254.544		
300.00	300.00	244.40	300.00	2.06	3.63	101.438	-1,645.30	8,132.15	8,296.92	8,291.23	5.69	1,458.468		
392.47	392.47	335.99	391.58	2.37	5.20	101.437	-1,645.16	8,132.15	8,296.89	8,289.32	7.57	1,095.536		
400.00	400.00	342.00	397.59	2.39	5.31	101.437	-1,645.17	8,132.15	8,296.90	8,289.19	7.71	1,076.787		
500.00	500.00	444.41	500.00	2.69	7.15	101.438	-1,645.30	8,132.15	8,296.92	8,287.08	9.84	843.232		
600.00	600.00	544.42	600.00	2.96	9.03	101.438	-1,645.30	8,132.15	8,296.92	8,284.93	11.99	691.924		
700.00	700.00	644.42	700.00	3.21	11.10	101.438	-1,645.30	8,132.15	8,296.92	8,282.61	14.31	579.651		
721.62	721.62	664.24	719.82	3.26	11.52	101.435	-1,644.93	8,132.15	8,296.85	8,282.07	14.78	561.532		
800.00	800.00	735.92	791.49	3.44	13.00	101.437	-1,645.16	8,132.15	8,296.90	8,280.45	16.45	504.469		
900.00	900.00	844.44	900.00	3.66	15.07	101.438	-1,645.30	8,132.15	8,296.92	8,278.19	18.73	442.945		
914.67	914.67	858.42	913.98	3.69	15.33	101.436	-1,645.00	8,132.15	8,296.86	8,277.84	19.02	436.194		
1,000.00	1,000.00	934.86	990.42	3.87	16.74	101.437	-1,645.24	8,132.15	8,296.92	8,276.30	20.62	402.447		
1,100.00	1,100.00	1,044.45	1,100.00	4.07	18.80	101.438	-1,645.30	8,132.15	8,296.92	8,274.05	22.87	362.817		
1,151.00	1,151.00	1,095.43	1,150.99	4.17	19.75	101.437	-1,645.14	8,132.15	8,296.89	8,272.97	23.92	346.833		
1,200.00	1,200.00	1,143.29	1,198.84	4.26	20.65	101.437	-1,645.15	8,132.15	8,296.89	8,271.98	24.91	333.029		
1,300.00	1,300.00	1,240.96	1,296.51	4.45	22.48	101.438	-1,645.29	8,132.15	8,296.92	8,269.99	26.93	308.089		
1,400.00	1,399.98	1,344.43	1,399.98	4.72	24.46	-127.280	-1,645.30	8,132.15	8,297.98	8,268.86	29.12	284.998		
1,500.00	1,499.84	1,444.29	1,499.84	4.99	26.38	-127.258	-1,645.30	8,132.15	8,301.15	8,269.93	31.22	265.893		
1,600.00	1,599.45	1,543.92	1,599.45	5.27	28.29	-127.221	-1,645.30	8,132.15	8,306.44	8,273.11	33.33	249.194		
1,700.00	1,698.70	1,643.18	1,698.70	5.57	30.24	-127.170	-1,645.30	8,132.15	8,313.84	8,278.36	35.48	234.295		
1,800.00	1,797.47	1,741.96	1,797.47	5.89	32.17	-127.102	-1,645.30	8,132.15	8,323.36	8,285.72	37.64	221.127		
1,899.79	1,895.42	1,839.92	1,895.42	6.23	34.10	-127.019	-1,645.30	8,132.15	8,334.97	8,295.17	39.80	209.397		
1,900.00	1,895.62	1,840.12	1,895.62	6.23	34.10	-127.019	-1,645.30	8,132.15	8,335.00	8,295.19	39.81	209.374		
2,000.00	1,993.44	1,937.95	1,993.44	6.51	36.16	-127.132	-1,645.30	8,132.15	8,347.70	8,305.61	42.09	198.314		
2,100.00	2,091.26	2,028.51	2,083.96	6.81	38.17	-127.236	-1,645.15	8,132.15	8,360.42	8,316.07	44.34	188.542		
2,200.00	2,189.07	2,133.66	2,189.07	7.13	40.63	-127.355	-1,645.30	8,132.15	8,373.21	8,326.15	47.06	177.941		
2,300.00	2,286.89	2,221.59	2,276.97	7.47	42.61	-127.457	-1,645.11	8,132.15	8,385.98	8,336.68	49.30	170.085		
2,400.00	2,384.70	2,329.34	2,384.70	7.82	44.83	-127.578	-1,645.30	8,132.15	8,398.85	8,347.04	51.81	162.120		
2,500.00	2,482.52	2,417.47	2,472.83	8.18	46.62	-127.679	-1,645.09	8,132.15	8,411.68	8,357.79	53.89	156.096		
2,600.00	2,580.34	2,524.99	2,580.34	8.56	48.77	-127.799	-1,645.30	8,132.15	8,424.61	8,368.27	56.34	149.520		
2,700.00	2,678.15	2,619.23	2,674.57	8.94	50.65	-127.907	-1,644.94	8,132.15	8,437.48	8,378.95	58.53	144.150		
2,800.00	2,775.97	2,720.65	2,775.97	9.33	52.68	-128.018	-1,645.30	8,132.15	8,450.50	8,389.63	60.88	138.816		
2,900.00	2,873.79	2,818.46	2,873.79	9.73	54.65	-128.128	-1,645.30	8,132.15	8,463.49	8,400.33	63.17	133.990		
3,000.00	2,971.60	2,911.67	2,966.99	10.14	56.52	-128.234	-1,644.94	8,132.15	8,476.46	8,411.09	65.37	129.673		
3,100.00	3,069.42	3,014.12	3,069.42	10.55	58.58	-128.345	-1,645.30	8,132.15	8,489.57	8,421.82	67.76	125.297		
3,200.00	3,167.23	3,111.94	3,167.23	10.97	60.52	-128.454	-1,645.30	8,132.15	8,502.66	8,432.62	70.04	121.400		
3,300.00	3,265.05	3,207.13	3,262.43	11.39	62.41	-128.562	-1,644.78	8,132.15	8,515.68	8,443.41	72.27	117.826		
3,400.00	3,362.87	3,300.07	3,355.36	11.81	64.26	-128.663	-1,645.12	8,132.15	8,528.89	8,454.42	74.47	114.532		
3,500.00	3,460.68	3,405.41	3,460.68	12.24	66.22	-128.777	-1,645.30	8,132.15	8,542.09	8,465.31	76.78	111.249		
3,600.00	3,558.50	3,502.60	3,557.88	12.68	67.98	-128.886	-1,644.96	8,132.15	8,555.25	8,476.34	78.90	108.430		
3,700.00	3,656.32	3,596.84	3,652.12	13.11	69.69	-128.987	-1,645.13	8,132.15	8,568.51	8,487.54	80.97	105.827		
3,800.00	3,754.13	3,698.86	3,754.13	13.55	71.50	-129.097	-1,645.30	8,132.15	8,581.80	8,498.67	83.14	103.227		
3,831.13	3,784.58	3,729.31	3,784.58	13.67	72.03	-129.130	-1,645.30	8,132.15	8,585.94	8,502.17	83.76	102.503		
3,900.00	3,852.11	3,796.65	3,851.92	13.97	73.20	-129.335	-1,645.14	8,132.15	8,594.55	8,509.39	85.16	100.917		
4,000.00	3,950.70	3,893.32	3,948.59	14.43	74.88	-129.585	-1,645.23	8,132.15	8,605.28	8,518.08	87.19	98.691		
4,100.00	4,049.82	3,994.55	4,049.82	14.86	76.65	-129.785	-1,645.30	8,132.15	8,613.80	8,524.50	89.30	96.463		
4,200.00	4,149.33	4,094.06	4,149.33	15.28	78.41	-129.931	-1,645.30	8,132.15	8,620.09	8,528.74	91.35	94.363		
4,300.00	4,249.13	4,192.24	4,247.50	15.65	80.15	-130.026	-1,645.18	8,132.15	8,624.13	8,530.79	93.34	92.390		
4,400.00	4,349.08	4,293.82	4,349.08	15.97	81.94	-130.068	-1,645.30	8,132.15	8,625.97	8,530.62	95.35	90.469		
4,430.92	4,380.00	4,324.73	4,380.00	16.00	82.48	98.654	-1,645.30	8,132.15	8,626.07	8,530.16	95.91	89.939		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Swearingen A 1 - OH - Surveys													Offset Site Error:	0.00 usft
Survey Program:		140-INC-ONLY						Rule Assigned:				Offset Well Error:	1.00 usft	
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	Warning	
4,500.00	4,449.08	4,393.81	4,449.08	16.02	83.69	98.654	-1,645.30	8,132.15	8,626.07	8,528.93	97.14	88.798		
4,535.10	4,484.18	4,428.74	4,484.00	16.03	84.31	98.653	-1,645.13	8,132.15	8,626.05	8,528.28	97.77	88.226		
4,600.00	4,549.08	4,492.48	4,547.75	16.06	85.43	98.653	-1,645.17	8,132.15	8,626.05	8,527.13	98.92	87.199		
4,700.00	4,649.08	4,593.82	4,649.08	16.10	87.21	98.654	-1,645.30	8,132.15	8,626.07	8,525.32	100.75	85.617		
4,800.00	4,749.08	4,693.82	4,749.08	16.15	88.96	98.654	-1,645.30	8,132.15	8,626.07	8,523.52	102.56	84.108		
4,836.72	4,785.80	4,730.53	4,785.80	16.16	89.61	98.653	-1,645.13	8,132.15	8,626.05	8,522.83	103.22	83.567		
4,900.00	4,849.08	4,792.69	4,847.95	16.19	90.70	98.653	-1,645.16	8,132.15	8,626.05	8,521.71	104.35	82.668		
5,000.00	4,949.08	4,893.82	4,949.08	16.24	92.47	98.654	-1,645.30	8,132.15	8,626.07	8,519.90	106.17	81.247		
5,100.00	5,049.08	4,993.82	5,049.08	16.28	94.20	98.654	-1,645.30	8,132.15	8,626.07	8,518.13	107.95	79.910		
5,164.18	5,113.26	5,058.00	5,113.26	16.31	95.31	98.653	-1,645.11	8,132.15	8,626.05	8,516.96	109.09	79.075		
5,200.00	5,149.08	5,093.24	5,148.50	16.33	95.91	98.653	-1,645.12	8,132.15	8,626.05	8,516.33	109.71	78.624		
5,300.00	5,249.08	5,191.62	5,246.88	16.37	97.61	98.654	-1,645.23	8,132.15	8,626.06	8,514.60	111.46	77.391		
5,400.00	5,349.08	5,293.82	5,349.08	16.42	99.33	98.654	-1,645.30	8,132.15	8,626.07	8,512.84	113.23	76.179		
5,500.00	5,449.08	5,393.82	5,449.08	16.46	100.99	98.654	-1,645.30	8,132.15	8,626.07	8,511.13	114.94	75.045		
5,600.00	5,549.08	5,493.82	5,549.08	16.51	102.65	98.654	-1,645.30	8,132.15	8,626.07	8,509.42	116.66	73.945		
5,700.00	5,649.08	5,593.82	5,649.08	16.55	104.34	98.654	-1,645.30	8,132.15	8,626.07	8,507.68	118.40	72.857		
5,800.00	5,749.08	5,693.82	5,749.08	16.60	106.05	98.654	-1,645.30	8,132.15	8,626.07	8,505.91	120.16	71.786		
5,900.00	5,849.08	5,793.82	5,849.08	16.65	107.77	98.654	-1,645.30	8,132.15	8,626.07	8,504.14	121.93	70.745		
6,000.00	5,949.08	5,893.82	5,949.08	16.70	109.49	98.654	-1,645.30	8,132.15	8,626.07	8,502.37	123.70	69.731		
6,047.60	5,996.68	5,941.36	5,996.62	16.72	110.31	98.653	-1,645.20	8,132.15	8,626.06	8,501.51	124.55	69.257		
6,100.00	6,049.08	5,992.16	6,047.41	16.74	111.19	98.654	-1,645.24	8,132.15	8,626.07	8,500.61	125.46	68.758		
6,200.00	6,149.08	6,093.82	6,149.08	16.79	112.97	98.654	-1,645.30	8,132.15	8,626.07	8,498.78	127.29	67.765		
6,295.18	6,244.26	6,189.01	6,244.26	16.84	114.66	98.653	-1,645.13	8,132.15	8,626.05	8,497.02	129.03	66.852		
6,300.00	6,249.08	6,193.74	6,249.00	16.84	114.74	98.653	-1,645.13	8,132.15	8,626.05	8,496.93	129.12	66.807		
6,400.00	6,349.08	6,292.00	6,347.26	16.89	116.48	98.653	-1,645.20	8,132.15	8,626.06	8,495.15	130.91	65.892		
6,500.00	6,449.08	6,393.83	6,449.08	16.94	118.29	98.654	-1,645.30	8,132.15	8,626.07	8,493.30	132.78	64.967		
6,600.00	6,549.08	6,493.83	6,549.08	16.98	120.07	98.654	-1,645.30	8,132.15	8,626.07	8,491.46	134.61	64.081		
6,636.58	6,585.66	6,530.23	6,585.48	17.00	120.72	98.653	-1,645.11	8,132.15	8,626.05	8,490.77	135.28	63.764		
6,700.00	6,649.08	6,592.61	6,647.87	17.03	121.83	98.653	-1,645.15	8,132.15	8,626.05	8,489.62	136.43	63.228		
6,800.00	6,749.08	6,693.83	6,749.08	17.08	123.63	98.654	-1,645.30	8,132.15	8,626.07	8,487.79	138.29	62.378		
6,900.00	6,849.08	6,793.83	6,849.08	17.13	125.43	98.654	-1,645.30	8,132.15	8,626.07	8,485.94	140.14	61.554		
6,982.82	6,931.90	6,876.64	6,931.89	17.17	126.92	98.653	-1,645.10	8,132.15	8,626.04	8,484.37	141.67	60.887		
7,000.00	6,949.08	6,893.56	6,948.81	17.18	127.22	98.653	-1,645.10	8,132.15	8,626.04	8,484.06	141.99	60.752		
7,100.00	7,049.08	6,992.07	7,047.31	17.23	128.99	98.653	-1,645.18	8,132.15	8,626.06	8,482.24	143.81	59.981		
7,200.00	7,149.08	7,093.83	7,149.08	17.28	130.85	98.654	-1,645.30	8,132.15	8,626.07	8,480.35	145.72	59.196		
7,300.00	7,249.08	7,193.83	7,249.08	17.33	132.72	98.654	-1,645.30	8,132.15	8,626.07	8,478.43	147.65	58.424		
7,340.31	7,289.39	7,234.14	7,289.38	17.35	133.47	98.653	-1,645.11	8,132.15	8,626.05	8,477.62	148.42	58.118		
7,400.00	7,349.08	7,292.87	7,348.11	17.38	134.57	98.653	-1,645.13	8,132.15	8,626.05	8,476.50	149.55	57.678		
7,500.00	7,449.08	7,391.25	7,446.49	17.43	136.41	98.654	-1,645.27	8,132.15	8,626.07	8,474.62	151.45	56.957		
7,600.00	7,549.08	7,493.85	7,549.08	17.49	138.35	98.654	-1,645.30	8,132.15	8,626.07	8,472.62	153.45	56.214		
7,670.39	7,619.47	7,564.04	7,619.27	17.52	139.68	98.651	-1,644.79	8,132.15	8,626.00	8,471.18	154.82	55.715		
7,700.00	7,649.08	7,592.11	7,647.34	17.54	140.21	98.651	-1,644.82	8,132.15	8,626.00	8,470.63	155.37	55.518		
7,800.00	7,749.08	7,686.91	7,742.14	17.59	142.01	98.653	-1,645.13	8,132.15	8,626.05	8,468.82	157.23	54.863		
7,900.00	7,849.08	7,793.87	7,849.08	17.64	144.05	98.654	-1,645.30	8,132.15	8,626.07	8,466.75	159.33	54.140		
7,993.36	7,942.44	7,887.12	7,942.34	17.69	145.83	98.652	-1,644.93	8,132.15	8,626.02	8,464.86	161.16	53.523		
8,000.00	7,949.08	7,893.55	7,948.76	17.69	145.96	98.652	-1,644.93	8,132.15	8,626.02	8,464.73	161.29	53.481		
8,100.00	8,049.08	7,990.31	8,045.52	17.75	147.81	98.653	-1,645.08	8,132.15	8,626.04	8,462.85	163.20	52.857		
8,200.00	8,149.08	8,093.89	8,149.08	17.80	149.88	98.654	-1,645.30	8,132.15	8,626.07	8,460.75	165.33	52.176		
8,300.00	8,249.08	8,193.89	8,249.08	17.85	152.01	98.654	-1,645.30	8,132.15	8,626.07	8,458.55	167.52	51.493		
8,400.00	8,349.08	8,293.89	8,349.08	17.90	154.15	98.654	-1,645.30	8,132.15	8,626.07	8,456.36	169.72	50.826		
8,438.91	8,387.99	8,331.48	8,386.67	17.92	154.95	98.649	-1,644.53	8,132.15	8,625.96	8,455.42	170.54	50.579		
8,500.00	8,449.08	8,390.50	8,445.68	17.96	156.21	98.650	-1,644.64	8,132.15	8,625.98	8,454.14	171.84	50.198		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Swearingen A 1 - OH - Surveys													Offset Site Error:	0.00 usft
Survey Program:		140-INC-ONLY						Rule Assigned:				Offset Well Error:	1.00 usft	
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	Warning	
8,600.00	8,549.08	8,487.10	8,542.29	18.01	158.28	98.652	-1,645.02	8,132.15	8,626.03	8,452.07	173.96	49.586		
8,700.00	8,649.08	8,593.96	8,649.08	18.06	160.67	98.654	-1,645.30	8,132.15	8,626.07	8,449.66	176.42	48.896		
8,799.52	8,748.60	8,693.48	8,748.60	18.12	162.99	98.654	-1,645.30	8,132.15	8,626.07	8,447.28	178.79	48.247		
8,800.00	8,749.08	8,693.96	8,749.08	18.12	163.00	9.092	-1,645.30	8,132.15	8,626.07	8,447.27	178.80	48.244		
8,850.00	8,799.02	8,742.00	8,797.10	18.11	164.12	9.123	-1,644.32	8,132.15	8,623.73	8,443.79	179.94	47.925		
8,900.00	8,848.57	8,787.99	8,843.10	18.03	165.19	9.234	-1,644.45	8,132.15	8,617.27	8,436.30	180.97	47.617		
8,950.00	8,897.36	8,833.29	8,888.39	17.94	166.24	9.424	-1,644.71	8,132.15	8,606.59	8,424.63	181.97	47.298		
9,000.00	8,945.01	8,877.53	8,932.62	17.84	167.27	9.700	-1,645.07	8,132.15	8,591.77	8,408.84	182.93	46.968		
9,050.00	8,991.18	8,936.21	8,991.18	17.75	168.69	10.080	-1,645.30	8,132.15	8,572.87	8,388.59	184.28	46.522		
9,100.00	9,035.50	8,980.53	9,035.50	17.65	169.78	10.568	-1,645.30	8,132.15	8,550.05	8,364.75	185.30	46.141		
9,150.00	9,077.63	9,018.47	9,073.42	17.56	170.72	11.184	-1,644.46	8,132.15	8,523.38	8,337.21	186.17	45.784		
9,200.00	9,117.26	9,050.80	9,105.74	17.49	171.52	11.973	-1,644.65	8,132.15	8,493.34	8,306.45	186.89	45.445		
9,250.00	9,154.08	9,080.85	9,135.78	17.43	172.26	12.981	-1,645.00	8,132.15	8,460.05	8,272.48	187.57	45.104		
9,300.00	9,187.82	9,132.97	9,187.82	17.40	173.57	14.325	-1,645.30	8,132.15	8,423.68	8,234.87	188.81	44.614		
9,350.00	9,218.22	9,163.37	9,218.22	17.41	174.33	16.046	-1,645.30	8,132.15	8,384.52	8,195.01	189.52	44.242		
9,400.00	9,245.04	9,190.19	9,245.04	17.47	175.01	18.351	-1,645.30	8,132.15	8,342.91	8,152.77	190.14	43.878		
9,450.00	9,268.08	9,213.23	9,268.08	17.58	175.59	21.540	-1,645.30	8,132.15	8,299.15	8,108.48	190.67	43.525		
9,500.00	9,287.17	9,230.86	9,285.69	17.76	176.03	26.110	-1,644.23	8,132.15	8,253.42	8,062.34	191.08	43.194		
9,550.00	9,302.16	9,243.52	9,298.35	18.02	176.35	33.072	-1,644.26	8,132.15	8,206.40	8,015.03	191.37	42.883		
9,600.00	9,312.94	9,252.63	9,307.45	18.35	176.58	44.305	-1,644.29	8,132.15	8,158.28	7,966.70	191.58	42.585		
9,650.00	9,319.42	9,258.10	9,312.92	18.76	176.72	62.916	-1,644.31	8,132.15	8,109.42	7,917.72	191.70	42.302		
9,689.52	9,321.47	9,259.83	9,314.65	19.14	176.76	83.897	-1,644.32	8,132.15	8,070.53	7,878.78	191.75	42.090		
9,700.00	9,321.66	9,259.99	9,314.81	19.25	176.77	83.903	-1,644.32	8,132.15	8,060.20	7,868.45	191.75	42.035		
9,800.00	9,323.40	9,261.46	9,316.28	20.40	176.80	83.965	-1,644.33	8,132.15	7,961.67	7,769.88	191.80	41.511		
9,900.00	9,325.15	9,262.93	9,317.75	21.76	176.84	84.026	-1,644.34	8,132.15	7,863.18	7,671.33	191.86	40.985		
10,000.00	9,326.89	9,264.40	9,319.22	23.28	176.88	84.087	-1,644.35	8,132.15	7,764.73	7,572.80	191.93	40.456		
10,100.00	9,328.64	9,265.87	9,320.69	24.93	176.91	84.148	-1,644.36	8,132.15	7,666.32	7,474.30	192.02	39.924		
10,200.00	9,330.38	9,267.34	9,322.16	26.69	176.95	84.209	-1,644.37	8,132.15	7,567.95	7,375.82	192.13	39.390		
10,300.00	9,332.13	9,268.81	9,323.63	28.53	176.99	84.271	-1,644.38	8,132.15	7,469.62	7,277.36	192.26	38.853		
10,400.00	9,333.87	9,270.28	9,325.10	30.44	177.02	84.332	-1,644.39	8,132.15	7,371.34	7,178.94	192.40	38.313		
10,500.00	9,335.62	9,271.74	9,326.56	32.40	177.06	84.393	-1,644.40	8,132.15	7,273.10	7,080.54	192.56	37.770		
10,600.00	9,337.36	9,273.21	9,328.03	34.41	177.10	84.454	-1,644.41	8,132.15	7,174.91	6,982.16	192.75	37.225		
10,700.00	9,339.11	9,274.68	9,329.50	36.45	177.14	84.515	-1,644.42	8,132.15	7,076.77	6,883.82	192.95	36.677		
10,800.00	9,340.85	9,276.15	9,330.97	38.52	177.17	84.577	-1,644.43	8,132.15	6,978.69	6,785.51	193.18	36.126		
10,900.00	9,342.60	9,277.62	9,332.44	40.62	177.21	84.638	-1,644.44	8,132.15	6,880.66	6,687.23	193.43	35.572		
11,000.00	9,344.34	9,279.09	9,333.90	42.74	177.25	84.699	-1,644.45	8,132.15	6,782.68	6,588.98	193.70	35.016		
11,100.00	9,346.09	9,280.55	9,335.37	44.88	177.28	84.760	-1,644.46	8,132.15	6,684.77	6,490.77	194.00	34.458		
11,200.00	9,347.83	9,282.02	9,336.84	47.04	177.32	84.821	-1,644.47	8,132.15	6,586.92	6,392.59	194.32	33.896		
11,300.00	9,349.58	9,283.49	9,338.30	49.21	177.36	84.883	-1,644.49	8,132.15	6,489.13	6,294.45	194.68	33.333		
11,400.00	9,351.32	9,284.95	9,339.77	51.39	177.39	84.944	-1,644.50	8,132.15	6,391.41	6,196.36	195.05	32.767		
11,500.00	9,353.07	9,286.42	9,341.23	53.58	177.43	85.005	-1,644.51	8,132.15	6,293.76	6,098.30	195.46	32.200		
11,600.00	9,354.82	9,287.89	9,342.70	55.79	177.47	85.066	-1,644.53	8,132.15	6,196.19	6,000.29	195.90	31.630		
11,700.00	9,356.56	9,289.35	9,344.17	58.00	177.50	85.127	-1,644.54	8,132.15	6,098.70	5,902.33	196.36	31.058		
11,800.00	9,358.31	9,290.82	9,345.63	60.21	177.54	85.189	-1,644.55	8,132.15	6,001.28	5,804.42	196.86	30.485		
11,900.00	9,360.05	9,292.28	9,347.10	62.44	177.58	85.250	-1,644.57	8,132.15	5,903.96	5,706.56	197.39	29.910		
12,000.00	9,361.80	9,293.75	9,348.56	64.67	177.62	85.311	-1,644.58	8,132.15	5,806.72	5,608.77	197.95	29.334		
12,100.00	9,363.54	9,295.21	9,350.02	66.90	177.65	85.372	-1,644.60	8,132.15	5,709.58	5,511.03	198.55	28.756		
12,200.00	9,365.29	9,296.68	9,351.49	69.14	177.69	85.434	-1,644.61	8,132.15	5,612.54	5,413.35	199.18	28.178		
12,300.00	9,367.03	9,298.14	9,352.95	71.38	177.73	85.495	-1,644.63	8,132.15	5,515.60	5,315.75	199.85	27.598		
12,400.00	9,368.78	9,299.60	9,354.42	73.63	177.76	85.556	-1,644.64	8,132.15	5,418.78	5,218.22	200.56	27.018		
12,500.00	9,370.52	9,301.07	9,355.88	75.88	177.80	85.617	-1,644.66	8,132.15	5,322.07	5,120.76	201.31	26.438		
12,600.00	9,372.27	9,302.53	9,357.34	78.14	177.84	85.678	-1,644.68	8,132.15	5,225.48	5,023.39	202.09	25.857		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Swearingen A 1 - OH - Surveys													Offset Site Error:	0.00 usft
Survey Program:		140-INC-ONLY										Offset Well Error:	1.00 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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,700.00	9,374.01	9,303.99	9,358.81	80.39	177.87	85.740	-1,644.69	8,132.15	5,129.03	4,926.11	202.92	25.276		
12,800.00	9,375.76	9,305.46	9,360.27	82.65	177.91	85.801	-1,644.71	8,132.15	5,032.71	4,828.92	203.80	24.695		
12,900.00	9,377.50	9,306.92	9,361.73	84.92	177.95	85.862	-1,644.73	8,132.15	4,936.54	4,731.83	204.71	24.114		
13,000.00	9,379.25	9,308.38	9,363.19	87.18	177.98	85.923	-1,644.75	8,132.15	4,840.53	4,634.85	205.68	23.534		
13,100.00	9,380.99	9,309.84	9,364.65	89.45	178.02	85.984	-1,644.76	8,132.15	4,744.68	4,537.98	206.70	22.955		
13,200.00	9,382.74	9,311.31	9,366.12	91.72	178.06	86.046	-1,644.78	8,132.15	4,649.00	4,441.23	207.77	22.376		
13,300.00	9,384.48	9,312.77	9,367.58	93.99	178.09	86.107	-1,644.80	8,132.15	4,553.51	4,344.62	208.89	21.799		
13,400.00	9,386.23	9,314.23	9,369.04	96.26	178.13	86.168	-1,644.82	8,132.15	4,458.21	4,248.14	210.07	21.223		
13,500.00	9,387.97	9,315.69	9,370.50	98.53	178.17	86.229	-1,644.84	8,132.15	4,363.13	4,151.82	211.31	20.648		
13,600.00	9,389.72	9,317.15	9,371.96	100.81	178.20	86.290	-1,644.86	8,132.15	4,268.27	4,055.65	212.61	20.075		
13,700.00	9,391.47	9,318.61	9,373.42	103.09	178.24	86.352	-1,644.88	8,132.15	4,173.64	3,959.66	213.98	19.505		
13,800.00	9,393.21	9,320.07	9,374.88	105.36	178.28	86.413	-1,644.90	8,132.15	4,079.28	3,863.85	215.42	18.936		
13,900.00	9,394.96	9,321.53	9,376.34	107.64	178.31	86.474	-1,644.92	8,132.15	3,985.19	3,768.25	216.94	18.370		
14,000.00	9,396.70	9,322.99	9,377.80	109.92	178.35	86.535	-1,644.94	8,132.15	3,891.39	3,672.86	218.53	17.807		
14,100.00	9,398.45	9,324.45	9,379.26	112.21	178.39	86.596	-1,644.96	8,132.15	3,797.91	3,577.70	220.21	17.247		
14,200.00	9,400.19	9,325.91	9,380.72	114.49	178.42	86.657	-1,644.98	8,132.15	3,704.77	3,482.79	221.98	16.690		
14,300.00	9,401.94	9,327.24	9,401.94	116.77	178.96	87.548	-1,645.30	8,132.15	3,612.05	3,387.66	224.38	16.098		
14,400.00	9,403.68	9,348.99	9,403.68	119.06	179.01	87.621	-1,645.30	8,132.15	3,519.66	3,293.30	226.36	15.549		
14,500.00	9,405.43	9,350.73	9,405.43	121.34	179.05	87.694	-1,645.30	8,132.15	3,427.70	3,199.26	228.43	15.005		
14,600.00	9,407.17	9,352.48	9,407.17	123.63	179.10	87.767	-1,645.30	8,132.15	3,336.19	3,105.57	230.63	14.466		
14,700.00	9,408.92	9,354.22	9,408.92	125.91	179.14	87.841	-1,645.30	8,132.15	3,245.19	3,012.25	232.94	13.931		
14,800.00	9,410.66	9,355.97	9,410.66	128.20	179.19	87.914	-1,645.30	8,132.15	3,154.74	2,919.35	235.39	13.402		
14,900.00	9,412.41	9,357.71	9,412.41	130.49	179.23	87.987	-1,645.30	8,132.15	3,064.87	2,826.90	237.97	12.879		
15,000.00	9,414.15	9,359.46	9,414.15	132.78	179.28	88.060	-1,645.30	8,132.15	2,975.65	2,734.95	240.71	12.362		
15,100.00	9,415.90	9,361.20	9,415.90	135.06	179.32	88.134	-1,645.30	8,132.15	2,887.14	2,643.54	243.60	11.852		
15,200.00	9,417.64	9,362.95	9,417.64	137.35	179.37	88.207	-1,645.30	8,132.15	2,799.40	2,552.73	246.67	11.349		
15,300.00	9,419.39	9,364.69	9,419.39	139.64	179.41	88.280	-1,645.30	8,132.15	2,712.51	2,462.59	249.92	10.854		
15,400.00	9,421.13	9,366.44	9,421.13	141.94	179.46	88.354	-1,645.30	8,132.15	2,626.55	2,373.19	253.36	10.367		
15,500.00	9,422.88	9,368.18	9,422.88	144.23	179.50	88.427	-1,645.30	8,132.15	2,541.61	2,284.60	257.01	9.889		
15,600.00	9,424.62	9,369.93	9,424.62	146.52	179.55	88.500	-1,645.30	8,132.15	2,457.81	2,196.93	260.88	9.421		
15,700.00	9,426.37	9,371.67	9,426.37	148.81	179.59	88.573	-1,645.30	8,132.15	2,375.26	2,110.27	264.99	8.964		
15,800.00	9,428.12	9,373.42	9,428.12	151.10	179.64	88.647	-1,645.30	8,132.15	2,294.10	2,024.76	269.34	8.517		
15,900.00	9,429.86	9,375.16	9,429.86	153.40	179.69	88.720	-1,645.30	8,132.15	2,214.47	1,940.52	273.95	8.083		
16,000.00	9,431.61	9,376.91	9,431.61	155.69	179.73	88.793	-1,645.30	8,132.15	2,136.56	1,857.73	278.84	7.662		
16,100.00	9,433.35	9,378.65	9,433.35	157.98	179.78	88.867	-1,645.30	8,132.15	2,060.56	1,776.56	284.00	7.255		
16,200.00	9,435.10	9,380.40	9,435.10	160.28	179.82	88.940	-1,645.30	8,132.15	1,986.68	1,697.23	289.45	6.864		
16,300.00	9,436.84	9,382.14	9,436.84	162.57	179.87	89.013	-1,645.30	8,132.15	1,915.18	1,619.99	295.18	6.488		
16,400.00	9,438.59	9,383.89	9,438.59	164.87	179.91	89.087	-1,645.30	8,132.15	1,846.32	1,545.13	301.19	6.130		
16,500.00	9,440.33	9,385.64	9,440.33	167.16	179.96	89.160	-1,645.30	8,132.15	1,780.41	1,472.95	307.46	5.791		
16,600.00	9,442.08	9,387.38	9,442.08	169.46	180.00	89.233	-1,645.30	8,132.15	1,717.80	1,403.84	313.97	5.471		
16,700.00	9,443.82	9,389.13	9,443.82	171.75	180.05	89.307	-1,645.30	8,132.15	1,658.86	1,338.20	320.66	5.173		
16,800.00	9,445.57	9,390.87	9,445.57	174.05	180.09	89.380	-1,645.30	8,132.15	1,603.99	1,276.51	327.47	4.898		
16,900.00	9,447.31	9,392.62	9,447.31	176.34	180.14	89.453	-1,645.30	8,132.15	1,553.62	1,219.28	334.33	4.647		
17,000.00	9,449.06	9,394.36	9,449.06	178.64	180.18	89.527	-1,645.30	8,132.15	1,508.20	1,167.07	341.13	4.421		
17,100.00	9,450.80	9,396.11	9,450.80	180.94	180.23	89.600	-1,645.30	8,132.15	1,468.20	1,120.46	347.74	4.222		
17,200.00	9,452.55	9,397.85	9,452.55	183.23	180.27	89.673	-1,645.30	8,132.15	1,434.07	1,080.05	354.02	4.051		
17,300.00	9,454.29	9,399.60	9,454.29	185.53	180.32	89.747	-1,645.30	8,132.15	1,406.23	1,046.43	359.81	3.908		
17,400.00	9,456.04	9,401.34	9,456.04	187.83	180.36	89.820	-1,645.30	8,132.15	1,385.07	1,020.13	364.94	3.795		
17,500.00	9,457.78	9,403.09	9,457.78	190.12	180.41	89.893	-1,645.30	8,132.15	1,370.89	1,001.61	369.28	3.712		
17,600.00	9,459.53	9,404.83	9,459.53	192.42	180.45	89.967	-1,645.30	8,132.15	1,363.91	991.21	372.70	3.660		
17,645.46	9,460.32	9,405.63	9,460.32	193.47	180.47	90.000	-1,645.30	8,132.15	1,363.15	989.22	373.93	3.645 CC		
17,700.00	9,461.27	9,406.58	9,461.27	194.72	180.50	90.040	-1,645.30	8,132.15	1,364.24	989.12	375.12	3.637 ES, SF		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Swearingen A 1 - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 140-INC-ONLY							Rule Assigned:						Offset Well Error: 1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	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
17,800.00	9,463.02	9,408.32	9,463.02	197.02	180.54	90.113	-1,645.30	8,132.15	1,371.88	995.37	376.51	3.644	
17,900.00	9,464.77	9,410.07	9,464.77	199.32	180.59	90.187	-1,645.30	8,132.15	1,386.71	1,009.84	376.87	3.680	
18,000.00	9,466.51	9,411.81	9,466.51	201.61	180.63	90.260	-1,645.30	8,132.15	1,408.49	1,032.23	376.26	3.743	
18,100.00	9,468.26	9,413.56	9,468.26	203.91	180.68	90.333	-1,645.30	8,132.15	1,436.92	1,062.13	374.78	3.834	
18,200.00	9,470.00	9,415.30	9,470.00	206.21	180.72	90.407	-1,645.30	8,132.15	1,471.60	1,099.04	372.56	3.950	
18,300.00	9,471.75	9,417.05	9,471.75	208.51	180.77	90.480	-1,645.30	8,132.15	1,512.11	1,142.39	369.72	4.090	
18,400.00	9,473.49	9,418.79	9,473.49	210.81	180.81	90.553	-1,645.30	8,132.15	1,557.99	1,191.59	366.40	4.252	
18,500.00	9,475.24	9,420.54	9,475.24	213.11	180.86	90.627	-1,645.30	8,132.15	1,608.79	1,246.06	362.73	4.435	
18,600.00	9,476.98	9,422.29	9,476.98	215.41	180.90	90.700	-1,645.30	8,132.15	1,664.05	1,305.23	358.81	4.638	
18,700.00	9,478.73	9,424.03	9,478.73	217.71	180.95	90.773	-1,645.30	8,132.15	1,723.34	1,368.58	354.76	4.858	
18,800.00	9,480.47	9,425.78	9,480.47	220.01	180.99	90.847	-1,645.30	8,132.15	1,786.26	1,435.63	350.64	5.094	
18,900.00	9,482.22	9,427.52	9,482.22	222.31	181.04	90.920	-1,645.30	8,132.15	1,852.45	1,505.93	346.52	5.346	
19,000.00	9,483.96	9,429.27	9,483.96	224.61	181.09	90.993	-1,645.30	8,132.15	1,921.56	1,579.11	342.45	5.611	
19,100.00	9,485.71	9,431.01	9,485.71	226.91	181.13	91.067	-1,645.30	8,132.15	1,993.29	1,654.82	338.47	5.889	
19,200.00	9,487.45	9,432.76	9,487.45	229.21	181.18	91.140	-1,645.30	8,132.15	2,067.38	1,732.77	334.61	6.179	
19,300.00	9,489.20	9,434.50	9,489.20	231.51	181.22	91.213	-1,645.30	8,132.15	2,143.56	1,812.69	330.87	6.479	
19,355.56	9,490.17	9,435.47	9,490.17	232.78	181.25	91.254	-1,645.30	8,132.15	2,186.71	1,857.86	328.86	6.649	



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Zeus 1 - OH - Surveys														Offset Site Error: 0.00 usft
Survey Program: 117-INC-ONLY, 6668-MWD														Offset Well Error: 1.00 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		
0.00	0.00	0.00	34.60	1.00	1.00	90.554	-54.27	5,615.40	5,615.77					
100.00	100.00	65.40	100.00	1.13	1.18	90.554	-54.27	5,615.40	5,615.67	5,613.35	2.31	2,426.374		
200.00	200.00	165.40	200.00	1.66	2.47	90.554	-54.27	5,615.40	5,615.67	5,611.54	4.13	1,360.255		
274.63	274.63	240.03	274.63	1.95	4.13	90.550	-53.87	5,615.40	5,615.66	5,609.58	6.08	923.557		
300.00	300.00	265.33	299.93	2.06	4.70	90.550	-53.89	5,615.40	5,615.66	5,608.90	6.76	830.553		
400.00	400.00	365.42	400.00	2.39	7.01	90.554	-54.27	5,615.40	5,615.67	5,606.26	9.40	597.229		
500.00	500.00	465.42	500.00	2.69	9.31	90.554	-54.27	5,615.40	5,615.67	5,603.67	12.00	468.095		
570.77	570.77	536.19	570.76	2.88	10.94	90.548	-53.72	5,615.40	5,615.66	5,601.84	13.82	406.425		
600.00	600.00	565.36	599.93	2.96	11.61	90.548	-53.74	5,615.40	5,615.66	5,601.09	14.57	385.452		
700.00	700.00	665.16	699.73	3.21	13.91	90.552	-54.06	5,615.40	5,615.66	5,598.54	17.12	327.993		
800.00	800.00	765.45	800.00	3.44	16.05	90.554	-54.27	5,615.40	5,615.67	5,596.17	19.50	288.056		
895.70	895.70	861.15	895.70	3.65	18.00	90.548	-53.75	5,615.40	5,615.66	5,594.00	21.66	259.310		
900.00	900.00	865.44	899.99	3.66	18.09	90.548	-53.75	5,615.40	5,615.66	5,593.91	21.75	258.154		
1,000.00	1,000.00	965.24	999.78	3.87	20.13	90.551	-53.97	5,615.40	5,615.66	5,591.67	24.00	234.014		
1,100.00	1,100.00	1,065.48	1,100.00	4.07	22.10	90.554	-54.27	5,615.40	5,615.67	5,589.50	26.17	214.585		
1,197.86	1,197.86	1,163.34	1,197.85	4.26	23.94	90.549	-53.81	5,615.40	5,615.66	5,587.47	28.20	199.166		
1,200.00	1,200.00	1,165.47	1,199.99	4.26	23.98	90.549	-53.81	5,615.40	5,615.66	5,587.42	28.24	198.854		
1,300.00	1,300.00	1,265.24	1,299.75	4.45	25.85	90.551	-54.05	5,615.40	5,615.66	5,585.36	30.30	185.338		
1,400.00	1,399.98	1,365.48	1,399.98	4.72	27.69	-138.165	-54.27	5,615.40	5,616.97	5,584.60	32.37	173.532		
1,500.00	1,499.84	1,465.24	1,499.74	4.99	29.50	-138.151	-54.08	5,615.40	5,620.87	5,586.48	34.39	163.443		
1,600.00	1,599.45	1,564.96	1,599.45	5.27	31.37	-138.121	-54.27	5,615.40	5,627.37	5,590.89	36.48	154.250		
1,700.00	1,698.70	1,664.23	1,698.70	5.57	33.42	-138.081	-54.27	5,615.40	5,636.47	5,597.71	38.77	145.400		
1,800.00	1,797.47	1,763.01	1,797.45	5.89	35.70	-138.033	-53.96	5,615.40	5,648.17	5,606.88	41.29	136.785		
1,899.79	1,895.42	1,861.01	1,895.40	6.23	38.13	-137.969	-53.84	5,615.40	5,662.43	5,618.43	44.00	128.692		
1,900.00	1,895.62	1,861.21	1,895.60	6.23	38.14	-137.969	-53.84	5,615.40	5,662.47	5,618.46	44.01	128.677		
2,000.00	1,993.44	1,959.09	1,993.44	6.51	40.70	-138.104	-54.27	5,615.40	5,678.07	5,631.27	46.81	121.308		
2,100.00	2,091.26	2,056.99	2,091.26	6.81	43.37	-138.242	-54.27	5,615.40	5,693.71	5,643.97	49.74	114.461		
2,200.00	2,189.07	2,155.42	2,189.62	7.13	46.40	-138.382	-54.18	5,615.40	5,709.38	5,656.33	53.05	107.618		
2,300.00	2,286.89	2,252.80	2,286.89	7.47	49.39	-138.517	-54.27	5,615.40	5,725.09	5,668.75	56.34	101.622		
2,400.00	2,384.70	2,350.70	2,384.70	7.82	52.24	-138.653	-54.27	5,615.40	5,740.82	5,681.34	59.48	96.510		
2,500.00	2,482.52	2,448.54	2,482.52	8.18	54.35	-138.788	-54.27	5,615.40	5,756.59	5,694.68	61.91	92.987		
2,600.00	2,580.34	2,546.36	2,580.34	8.56	56.44	-138.923	-54.27	5,615.40	5,772.39	5,708.06	64.33	89.729		
2,700.00	2,678.15	2,644.21	2,678.15	8.94	58.73	-139.057	-54.27	5,615.40	5,788.22	5,721.27	66.96	86.447		
2,800.00	2,775.97	2,742.22	2,776.15	9.33	61.00	-139.198	-53.46	5,615.40	5,804.10	5,734.53	69.57	83.426		
2,900.00	2,873.79	2,841.39	2,875.31	9.73	63.30	-139.326	-54.14	5,615.40	5,819.98	5,747.76	72.22	80.587		
3,000.00	2,971.60	2,937.72	2,971.60	10.14	65.31	-139.454	-54.27	5,615.40	5,835.90	5,761.32	74.58	78.247		
3,100.00	3,069.42	3,035.95	3,069.82	10.55	67.32	-139.591	-53.71	5,615.40	5,851.87	5,774.91	76.96	76.035		
3,200.00	3,167.23	3,134.84	3,168.71	10.97	69.35	-139.718	-54.28	5,615.40	5,867.84	5,788.48	79.36	73.937		
3,300.00	3,265.05	3,231.20	3,265.05	11.39	71.39	-139.845	-54.27	5,615.40	5,883.86	5,802.09	81.77	71.956		
3,400.00	3,362.87	3,329.11	3,362.96	11.81	73.46	-139.980	-53.68	5,615.40	5,899.92	5,815.71	84.22	70.057		
3,500.00	3,460.68	3,427.68	3,461.53	12.24	75.54	-140.107	-53.90	5,615.40	5,915.99	5,829.31	86.68	68.251		
3,600.00	3,558.50	3,524.69	3,558.50	12.68	77.56	-140.230	-54.27	5,615.40	5,932.08	5,842.99	89.09	66.586		
3,700.00	3,656.32	3,622.66	3,656.46	13.11	79.54	-140.362	-53.76	5,615.40	5,948.23	5,856.77	91.46	65.036		
3,800.00	3,754.13	3,722.35	3,756.15	13.55	81.56	-140.487	-54.20	5,615.40	5,964.38	5,870.51	93.87	63.538		
3,831.13	3,784.58	3,750.80	3,784.58	13.67	82.12	-140.523	-54.27	5,615.40	5,969.41	5,874.87	94.54	63.142		
3,900.00	3,852.11	3,818.33	3,852.11	13.97	83.43	-140.739	-54.27	5,615.40	5,979.93	5,883.82	96.11	62.220		
4,000.00	3,950.70	3,917.80	3,951.58	14.43	85.37	-141.009	-53.96	5,615.40	5,992.98	5,894.55	98.44	60.883		
4,100.00	4,049.82	4,016.06	4,049.82	14.86	87.28	-141.216	-54.27	5,615.40	6,003.32	5,902.60	100.72	59.605		
4,200.00	4,149.33	4,115.57	4,149.33	15.28	89.23	-141.370	-54.27	5,615.40	6,010.98	5,907.97	103.01	58.354		
4,300.00	4,249.13	4,216.61	4,250.36	15.65	91.21	-141.472	-54.00	5,615.40	6,015.93	5,910.63	105.30	57.134		
4,400.00	4,349.08	4,315.35	4,349.08	15.97	93.15	-141.513	-54.27	5,615.40	6,018.12	5,910.64	107.48	55.993		
4,430.92	4,380.00	4,346.26	4,380.00	16.00	93.76	87.209	-54.27	5,615.40	6,018.25	5,910.14	108.11	55.667		

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Zeus 1 - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 117-INC-ONLY, 6668-MWD													Offset Well Error: 1.00 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	
4,500.00	4,449.08	4,415.44	4,449.17	16.02	95.11	87.204	-53.81	5,615.40	6,018.28	5,908.79	109.49	54.968	
4,600.00	4,549.08	4,516.83	4,550.56	16.06	97.10	87.207	-54.08	5,615.40	6,018.26	5,906.74	111.52	53.965	
4,700.00	4,649.08	4,615.37	4,649.08	16.10	99.04	87.209	-54.27	5,615.40	6,018.25	5,904.75	113.50	53.023	
4,800.00	4,749.08	4,715.60	4,749.31	16.15	101.01	87.204	-53.79	5,615.40	6,018.28	5,902.76	115.52	52.096	
4,900.00	4,849.08	4,816.93	4,850.63	16.19	103.00	87.207	-54.10	5,615.40	6,018.26	5,900.70	117.56	51.192	
4,999.21	4,948.29	4,914.60	4,948.29	16.24	104.87	87.209	-54.27	5,615.40	6,018.25	5,898.78	119.48	50.371	
5,000.00	4,949.08	4,915.39	4,949.08	16.24	104.89	87.209	-54.27	5,615.40	6,018.25	5,898.76	119.49	50.364	
5,100.00	5,049.08	5,015.54	5,049.22	16.28	106.78	87.204	-53.76	5,615.40	6,018.28	5,896.84	121.44	49.559	
5,200.00	5,149.08	5,116.79	5,150.47	16.33	108.70	87.206	-54.02	5,615.40	6,018.27	5,894.87	123.40	48.771	
5,300.00	5,249.08	5,215.41	5,249.08	16.37	110.56	87.209	-54.27	5,615.40	6,018.25	5,892.95	125.31	48.029	
5,400.00	5,349.08	5,315.53	5,349.19	16.42	112.44	87.206	-53.96	5,615.40	6,018.27	5,891.03	127.24	47.300	
5,500.00	5,449.08	5,416.44	5,450.11	16.46	114.33	87.208	-54.16	5,615.40	6,018.26	5,889.08	129.18	46.587	
5,595.43	5,544.51	5,510.86	5,544.51	16.51	116.17	87.209	-54.27	5,615.40	6,018.25	5,887.19	131.06	45.919	
5,600.00	5,549.08	5,515.43	5,549.08	16.51	116.26	87.209	-54.27	5,615.40	6,018.25	5,887.10	131.15	45.887	
5,700.00	5,649.08	5,615.74	5,649.38	16.55	118.23	87.204	-53.80	5,615.40	6,018.28	5,885.10	133.18	45.190	
5,800.00	5,749.08	5,717.07	5,750.71	16.60	120.23	87.207	-54.13	5,615.40	6,018.26	5,883.04	135.22	44.506	
5,868.57	5,817.65	5,784.03	5,817.65	16.63	121.50	87.209	-54.27	5,615.40	6,018.25	5,881.73	136.53	44.081	
5,900.00	5,849.08	5,815.46	5,849.08	16.65	122.08	87.209	-54.27	5,615.40	6,018.25	5,881.13	137.13	43.888	
6,000.00	5,949.08	5,917.09	5,950.71	16.70	123.97	87.208	-54.18	5,615.40	6,018.26	5,879.19	139.07	43.276	
6,050.55	5,999.63	5,966.02	5,999.63	16.72	125.11	87.209	-54.27	5,615.40	6,018.25	5,878.02	140.23	42.917	
6,100.00	6,049.08	6,015.47	6,049.08	16.74	126.36	87.209	-54.27	5,615.40	6,018.25	5,876.75	141.51	42.530	
6,200.00	6,149.08	6,116.41	6,150.02	16.79	128.91	87.208	-54.16	5,615.40	6,018.26	5,874.15	144.11	41.762	
6,230.63	6,179.71	6,146.20	6,179.71	16.81	129.67	87.209	-54.27	5,615.40	6,018.25	5,873.38	144.88	41.540	
6,300.00	6,249.08	6,215.59	6,249.09	16.84	131.04	87.208	-54.15	5,615.40	6,018.26	5,871.98	146.28	41.141	
6,400.00	6,349.08	6,315.58	6,349.08	16.89	132.92	87.209	-54.27	5,615.40	6,018.25	5,870.03	148.22	40.603	
6,500.00	6,449.08	6,415.59	6,449.08	16.94	135.20	87.209	-54.27	5,615.40	6,018.25	5,867.71	150.54	39.977	
6,600.00	6,549.08	6,516.08	6,549.56	16.98	139.10	87.206	-53.98	5,615.40	6,018.27	5,863.83	154.43	38.970	
6,700.00	6,649.08	6,611.06	6,643.34	17.03	145.58	87.290	-62.89	5,614.39	6,017.56	5,856.63	160.94	37.391	
6,800.00	6,749.08	6,719.05	6,781.03	17.08	145.58	87.335	-67.65	5,614.20	6,016.50	5,855.51	160.98	37.373	
6,856.88	6,805.96	6,770.52	6,802.35	17.11	145.58	87.360	-70.24	5,614.27	6,016.37	5,855.37	161.00	37.368	
6,900.00	6,849.08	6,793.00	6,824.67	17.13	145.58	87.386	-72.93	5,614.46	6,016.48	5,855.47	161.02	37.365	
7,000.00	6,949.08	6,831.40	6,862.80	17.18	145.58	87.428	-77.38	5,615.06	6,017.45	5,856.42	161.04	37.367	
7,100.00	7,049.08	7,194.96	7,225.28	17.23	145.59	87.674	-103.27	5,612.68	6,015.93	5,854.83	161.10	37.342	
7,200.00	7,149.08	7,298.00	7,328.23	17.28	145.59	87.705	-106.64	5,609.63	6,012.84	5,851.68	161.15	37.311	
7,300.00	7,249.08	7,456.00	7,486.06	17.33	145.59	87.747	-111.26	5,604.05	6,009.08	5,847.91	161.17	37.283	
7,400.00	7,349.08	7,532.32	7,562.32	17.38	145.59	87.751	-111.79	5,601.14	6,005.26	5,844.02	161.24	37.243	
7,500.00	7,449.08	7,599.89	7,629.86	17.43	145.59	87.751	-111.90	5,599.15	6,002.20	5,840.88	161.32	37.207	
7,600.00	7,549.08	7,771.00	7,800.84	17.49	145.60	87.761	-113.18	5,592.74	5,998.32	5,836.98	161.33	37.180	
7,700.00	7,649.08	7,824.06	7,853.86	17.54	145.60	87.765	-113.69	5,590.62	5,994.39	5,832.97	161.42	37.135	
7,800.00	7,749.08	7,992.00	8,021.66	17.59	145.61	87.772	-114.75	5,583.94	5,990.38	5,828.95	161.43	37.108	
7,900.00	7,849.08	8,084.00	8,113.56	17.64	145.61	87.779	-115.60	5,579.89	5,985.94	5,824.44	161.50	37.066	
8,000.00	7,949.08	8,147.00	8,176.51	17.69	145.62	87.784	-116.20	5,577.36	5,981.87	5,820.29	161.58	37.021	
8,100.00	8,049.08	8,262.66	8,292.08	17.75	145.62	87.799	-117.92	5,573.23	5,978.29	5,816.66	161.63	36.988	
8,200.00	8,149.08	8,336.00	8,365.35	17.80	145.63	87.814	-119.58	5,570.38	5,974.35	5,812.64	161.71	36.946	
8,300.00	8,249.08	8,443.07	8,472.34	17.85	145.63	87.823	-120.70	5,566.62	5,970.81	5,809.05	161.76	36.911	
8,400.00	8,349.08	8,606.41	8,635.54	17.90	145.64	87.834	-122.05	5,559.93	5,966.78	5,805.01	161.78	36.883	
8,500.00	8,449.08	8,683.00	8,712.02	17.96	145.65	87.847	-123.56	5,556.32	5,962.04	5,800.18	161.86	36.835	
8,600.00	8,549.08	8,827.20	8,856.05	18.01	145.66	87.871	-126.28	5,549.91	5,957.64	5,795.76	161.88	36.803	
8,700.00	8,649.08	8,922.61	8,951.33	18.06	145.66	87.878	-127.20	5,544.96	5,952.42	5,790.48	161.95	36.755	
8,799.52	8,748.60	8,999.00	9,027.63	18.12	145.67	87.883	-127.90	5,541.26	5,947.58	5,785.55	162.03	36.707	
8,800.00	8,749.08	8,999.00	9,027.63	18.12	145.67	-1.679	-127.90	5,541.26	5,947.55	5,785.52	162.03	36.706	
8,850.00	8,799.02	9,082.95	9,111.46	18.11	145.68	-1.688	-128.58	5,537.06	5,942.80	5,780.79	162.02	36.680	

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Zeus 1 - OH - Surveys												Offset Site Error: 0.00 usft
Survey Program: 117-INC-ONLY, 6668-MWD												Offset Well Error: 1.00 usft
Reference												
Offset												
Semi Major Axis												
Highside												
Offset Wellbore Centre												
Distance												
Between												
Minimum												
Separation												
Factor												
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
8,900.00	8,848.57	9,132.89	9,161.33	18.03	145.68	-1.716	-128.91	5,534.47	5,933.66	5,771.70	161.96	36.636
8,950.00	8,897.36	9,230.09	9,258.38	17.94	145.69	-1.758	-129.84	5,528.97	5,920.06	5,758.21	161.84	36.579
9,000.00	8,945.01	9,261.62	9,289.85	17.84	145.69	-1.816	-130.37	5,527.08	5,902.14	5,740.36	161.78	36.482
9,050.00	8,991.18	9,282.00	9,310.19	17.75	145.69	-1.893	-130.72	5,525.95	5,880.42	5,718.69	161.73	36.359
9,100.00	9,035.50	9,298.21	9,326.37	17.65	145.70	-1.993	-131.03	5,525.13	5,855.05	5,693.37	161.68	36.215
9,150.00	9,077.63	9,322.71	9,350.85	17.56	145.70	-2.120	-131.56	5,523.99	5,826.19	5,664.58	161.61	36.051
9,200.00	9,117.26	9,361.03	9,389.11	17.49	145.70	-2.284	-132.39	5,522.19	5,793.88	5,632.35	161.54	35.867
9,250.00	9,154.08	9,376.00	9,404.07	17.43	145.70	-2.495	-132.74	5,521.51	5,758.45	5,596.97	161.48	35.660
9,300.00	9,187.82	9,397.69	9,425.73	17.40	145.70	-2.774	-133.20	5,520.58	5,720.17	5,558.75	161.42	35.436
9,350.00	9,218.22	9,414.31	9,442.33	17.41	145.71	-3.148	-133.45	5,519.92	5,679.31	5,517.94	161.37	35.194
9,400.00	9,245.04	9,433.71	9,461.72	17.47	145.71	-3.675	-133.64	5,519.17	5,636.14	5,474.81	161.32	34.937
9,450.00	9,268.08	9,460.46	9,488.45	17.58	145.71	-4.464	-133.78	5,518.14	5,590.94	5,429.66	161.28	34.666
9,500.00	9,287.17	9,486.08	9,514.05	17.76	145.71	-5.731	-133.89	5,517.11	5,544.04	5,382.79	161.25	34.382
9,550.00	9,302.16	9,505.43	9,533.38	18.02	145.71	-8.026	-133.94	5,516.31	5,495.80	5,334.58	161.22	34.088
9,600.00	9,312.94	9,510.17	9,538.12	18.35	145.72	-13.176	-133.96	5,516.12	5,446.61	5,285.39	161.22	33.784
9,650.00	9,319.42	9,513.46	9,541.40	18.76	145.72	-34.560	-133.97	5,515.98	5,396.85	5,235.63	161.22	33.475
9,689.52	9,321.47	9,513.78	9,541.72	19.14	145.72	-127.031	-133.97	5,515.97	5,357.35	5,196.12	161.23	33.228
9,700.00	9,321.66	9,513.59	9,541.54	19.25	145.72	-126.990	-133.97	5,515.98	5,346.88	5,185.65	161.23	33.162
9,800.00	9,323.40	9,511.83	9,539.78	20.40	145.72	-126.604	-133.97	5,516.05	5,246.96	5,085.69	161.27	32.535
9,900.00	9,325.15	9,510.05	9,538.00	21.76	145.72	-126.210	-133.96	5,516.12	5,147.04	4,985.73	161.31	31.907
10,000.00	9,326.89	9,508.25	9,536.20	23.28	145.71	-125.808	-133.95	5,516.20	5,047.13	4,885.77	161.36	31.280
10,100.00	9,328.64	9,506.43	9,534.38	24.93	145.71	-125.398	-133.95	5,516.27	4,947.21	4,785.81	161.40	30.651
10,200.00	9,330.38	9,506.76	9,534.71	26.69	145.71	-125.472	-133.95	5,516.26	4,847.30	4,685.85	161.45	30.023
10,300.00	9,332.13	9,503.33	9,531.28	28.53	145.71	-124.689	-133.94	5,516.40	4,747.39	4,585.89	161.50	29.395
10,400.00	9,333.87	9,499.96	9,527.91	30.44	145.71	-123.904	-133.93	5,516.54	4,647.48	4,485.92	161.56	28.766
10,500.00	9,335.62	9,496.64	9,524.60	32.40	145.71	-123.118	-133.92	5,516.68	4,547.58	4,385.96	161.62	28.137
10,600.00	9,337.36	9,493.38	9,521.35	34.41	145.71	-122.331	-133.91	5,516.82	4,447.68	4,286.00	161.68	27.509
10,700.00	9,339.11	9,490.18	9,518.14	36.45	145.71	-121.543	-133.90	5,516.95	4,347.78	4,186.03	161.75	26.880
10,800.00	9,340.85	9,487.02	9,514.99	38.52	145.71	-120.756	-133.89	5,517.08	4,247.89	4,086.07	161.82	26.251
10,900.00	9,342.60	9,483.92	9,511.89	40.62	145.71	-119.968	-133.88	5,517.20	4,147.99	3,986.10	161.89	25.622
11,000.00	9,344.34	9,480.87	9,508.84	42.74	145.71	-119.180	-133.87	5,517.33	4,048.11	3,886.14	161.97	24.993
11,100.00	9,346.09	9,477.87	9,505.84	44.88	145.71	-118.394	-133.86	5,517.45	3,948.22	3,786.17	162.05	24.364
11,200.00	9,347.83	9,474.91	9,502.89	47.04	145.71	-117.608	-133.85	5,517.57	3,848.34	3,686.21	162.13	23.736
11,300.00	9,349.58	9,472.00	9,499.98	49.21	145.71	-116.823	-133.84	5,517.68	3,748.46	3,586.24	162.22	23.107
11,400.00	9,351.32	9,469.15	9,497.13	51.39	145.71	-116.042	-133.82	5,517.80	3,648.59	3,486.27	162.32	22.478
11,500.00	9,353.07	9,466.34	9,494.32	53.58	145.71	-115.263	-133.81	5,517.91	3,548.73	3,386.31	162.42	21.849
11,600.00	9,354.82	9,463.57	9,491.56	55.79	145.71	-114.486	-133.80	5,518.02	3,448.87	3,286.34	162.53	21.220
11,700.00	9,356.56	9,460.84	9,488.83	58.00	145.71	-113.711	-133.79	5,518.13	3,349.02	3,186.38	162.64	20.592
11,800.00	9,358.31	9,458.15	9,486.14	60.21	145.71	-112.938	-133.77	5,518.23	3,249.17	3,086.41	162.76	19.963
11,900.00	9,360.05	9,455.50	9,483.50	62.44	145.71	-112.167	-133.76	5,518.33	3,149.33	2,986.45	162.88	19.335
12,000.00	9,361.80	9,452.89	9,480.89	64.67	145.71	-111.400	-133.75	5,518.44	3,049.50	2,886.49	163.02	18.707
12,100.00	9,363.54	9,450.32	9,478.32	66.90	145.71	-110.635	-133.73	5,518.54	2,949.69	2,786.53	163.16	18.079
12,200.00	9,365.29	9,447.78	9,475.78	69.14	145.71	-109.874	-133.72	5,518.63	2,849.88	2,686.56	163.31	17.451
12,300.00	9,367.03	9,445.28	9,473.28	71.38	145.71	-109.116	-133.71	5,518.73	2,750.08	2,586.60	163.48	16.823
12,400.00	9,368.78	9,442.81	9,470.82	73.63	145.71	-108.362	-133.69	5,518.82	2,650.30	2,486.65	163.65	16.195
12,500.00	9,370.52	9,440.38	9,468.38	75.88	145.71	-107.613	-133.68	5,518.92	2,550.53	2,386.69	163.84	15.567
12,600.00	9,372.27	9,439.00	9,467.01	78.14	145.71	-107.185	-133.67	5,518.97	2,450.78	2,286.73	164.05	14.939
12,700.00	9,374.01	9,436.45	9,464.46	80.39	145.71	-106.389	-133.66	5,519.07	2,351.05	2,186.77	164.28	14.311
12,800.00	9,375.76	9,434.65	9,462.66	82.65	145.71	-105.821	-133.65	5,519.14	2,251.34	2,086.81	164.53	13.684
12,900.00	9,377.50	9,432.83	9,460.84	84.92	145.71	-105.247	-133.63	5,519.20	2,151.65	1,986.85	164.80	13.056
13,000.00	9,379.25	9,431.00	9,459.01	87.18	145.71	-104.664	-133.62	5,519.28	2,052.00	1,886.90	165.10	12.429
13,100.00	9,380.99	9,429.15	9,457.17	89.45	145.71	-104.074	-133.60	5,519.35	1,952.38	1,786.94	165.44	11.801

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Zeus 1 - OH - Surveys												Offset Site Error: 0.00 usft
Survey Program: 117-INC-ONLY, 6668-MWD												Offset Well Error: 1.00 usft
Reference	Offset	Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	
13,200.00	9,382.74	9,427.29	9,455.31	91.72	145.71	-103.477	-133.59	5,519.42	1,852.79	1,686.97	165.82	11.173
13,300.00	9,384.48	9,425.42	9,453.43	93.99	145.71	-102.871	-133.57	5,519.49	1,753.26	1,587.01	166.25	10.546
13,400.00	9,386.23	9,423.53	9,451.55	96.26	145.71	-102.258	-133.55	5,519.56	1,653.77	1,487.03	166.74	9.918
13,500.00	9,387.97	9,421.63	9,449.64	98.53	145.71	-101.638	-133.53	5,519.64	1,554.35	1,387.05	167.30	9.291
13,600.00	9,389.72	9,419.71	9,447.73	100.81	145.71	-101.010	-133.51	5,519.71	1,455.01	1,287.05	167.95	8.663
13,700.00	9,391.47	9,417.77	9,445.80	103.09	145.71	-100.374	-133.49	5,519.79	1,355.75	1,187.03	168.72	8.035
13,800.00	9,393.21	9,415.82	9,443.85	105.36	145.71	-99.730	-133.47	5,519.86	1,256.62	1,086.98	169.64	7.408
13,900.00	9,394.96	9,413.86	9,441.88	107.64	145.71	-99.079	-133.44	5,519.94	1,157.63	986.89	170.74	6.780
14,000.00	9,396.70	9,411.88	9,439.90	109.92	145.71	-98.421	-133.42	5,520.02	1,058.82	886.74	172.09	6.153
14,100.00	9,398.45	9,409.88	9,437.91	112.21	145.71	-97.755	-133.39	5,520.09	960.26	786.50	173.77	5.526
14,200.00	9,400.19	9,408.00	9,436.03	114.49	145.71	-97.126	-133.36	5,520.17	862.03	686.13	175.90	4.901
14,300.00	9,401.94	9,408.00	9,436.03	116.77	145.71	-97.126	-133.36	5,520.17	764.24	585.57	178.68	4.277
14,400.00	9,403.68	9,404.08	9,432.12	119.06	145.71	-95.812	-133.30	5,520.32	667.11	484.79	182.32	3.659
14,500.00	9,405.43	9,402.10	9,430.14	121.34	145.70	-95.145	-133.27	5,520.40	570.96	383.61	187.35	3.048
14,600.00	9,407.17	9,400.06	9,428.10	123.63	145.70	-94.457	-133.24	5,520.48	476.39	281.89	194.50	2.449
14,700.00	9,408.92	9,397.96	9,426.00	125.91	145.70	-93.748	-133.20	5,520.57	384.56	179.46	205.10	1.875
14,800.00	9,410.66	9,395.80	9,423.84	128.20	145.70	-93.016	-133.16	5,520.66	298.02	76.54	221.48	1.346 Level 3
14,900.00	9,412.41	9,393.57	9,421.61	130.49	145.70	-92.261	-133.12	5,520.75	223.02	-23.48	246.51	0.905 Level 3
15,000.00	9,414.15	9,391.27	9,419.32	132.78	145.70	-91.481	-133.08	5,520.85	175.07	-99.39	274.46	0.638 Level 3
15,045.51	9,414.95	9,390.20	9,418.25	133.82	145.70	-91.118	-133.06	5,520.89	169.05	-110.45	279.51	0.605 Level 3, CC, ES, SF
15,100.00	9,415.90	9,388.89	9,416.94	135.06	145.70	-90.677	-133.03	5,520.95	177.61	-96.20	273.81	0.649 Level 3
15,200.00	9,417.64	9,386.44	9,414.50	137.35	145.70	-89.847	-132.98	5,521.05	228.98	-17.67	246.65	0.928 Level 3
15,300.00	9,419.39	9,383.91	9,411.97	139.64	145.70	-88.990	-132.93	5,521.16	305.46	82.39	223.08	1.369 Level 3
15,400.00	9,421.13	9,381.30	9,409.35	141.94	145.70	-88.105	-132.87	5,521.27	392.64	185.01	207.63	1.891
15,500.00	9,422.88	9,378.59	9,406.65	144.23	145.70	-87.192	-132.81	5,521.39	484.78	287.20	197.58	2.454
15,600.00	9,424.62	9,375.78	9,403.85	146.52	145.70	-86.248	-132.74	5,521.52	579.52	388.72	190.80	3.037
15,700.00	9,426.37	9,372.80	9,400.87	148.81	145.70	-85.248	-132.67	5,521.65	675.77	489.73	186.03	3.633
15,800.00	9,428.12	9,369.76	9,397.83	151.10	145.70	-84.228	-132.60	5,521.79	772.95	590.38	182.58	4.234
15,900.00	9,429.86	9,366.63	9,394.71	153.40	145.70	-83.189	-132.52	5,521.93	870.77	690.77	180.00	4.838
16,000.00	9,431.61	9,363.44	9,391.52	155.69	145.70	-82.130	-132.45	5,522.08	969.02	790.98	178.04	5.443
16,100.00	9,433.35	9,360.16	9,388.25	157.98	145.70	-81.052	-132.37	5,522.23	1,067.59	891.06	176.53	6.048
16,200.00	9,435.10	9,356.81	9,384.90	160.28	145.70	-79.956	-132.30	5,522.38	1,166.39	991.05	175.34	6.652
16,300.00	9,436.84	9,353.37	9,381.46	162.57	145.70	-78.840	-132.22	5,522.54	1,265.38	1,090.98	174.40	7.256
16,400.00	9,438.59	9,349.84	9,377.94	164.87	145.70	-77.706	-132.15	5,522.71	1,364.50	1,190.85	173.65	7.858
16,500.00	9,440.33	9,346.23	9,374.33	167.16	145.70	-76.554	-132.07	5,522.88	1,463.74	1,290.69	173.05	8.459
16,600.00	9,442.08	9,343.19	9,371.30	169.46	145.70	-75.596	-132.00	5,523.02	1,563.07	1,390.51	172.56	9.058
16,700.00	9,443.82	9,340.51	9,368.68	171.75	145.70	-74.756	-131.95	5,523.15	1,662.47	1,490.31	172.16	9.657
16,800.00	9,445.57	9,337.86	9,365.98	174.05	145.70	-73.935	-131.89	5,523.28	1,761.93	1,590.10	171.83	10.254
16,900.00	9,447.31	9,335.25	9,363.37	176.34	145.70	-73.132	-131.83	5,523.40	1,861.45	1,689.88	171.57	10.850
17,000.00	9,449.06	9,332.67	9,360.79	178.64	145.70	-72.347	-131.78	5,523.52	1,961.02	1,789.66	171.36	11.444
17,100.00	9,450.80	9,330.13	9,358.25	180.94	145.70	-71.579	-131.72	5,523.64	2,060.62	1,889.43	171.19	12.037
17,200.00	9,452.55	9,327.62	9,355.75	183.23	145.70	-70.828	-131.67	5,523.76	2,160.25	1,989.19	171.06	12.629
17,300.00	9,454.29	9,325.14	9,353.27	185.53	145.70	-70.094	-131.61	5,523.87	2,259.92	2,088.96	170.96	13.219
17,400.00	9,456.04	9,322.69	9,350.83	187.83	145.70	-69.377	-131.56	5,523.99	2,359.61	2,188.72	170.88	13.808
17,500.00	9,457.78	9,320.28	9,348.42	190.12	145.70	-68.676	-131.50	5,524.10	2,459.32	2,288.49	170.83	14.396
17,600.00	9,459.53	9,317.89	9,346.03	192.42	145.70	-67.990	-131.45	5,524.21	2,559.05	2,388.25	170.80	14.983
17,700.00	9,461.27	9,305.69	9,333.85	194.72	145.70	-64.594	-131.20	5,524.79	2,658.79	2,487.91	170.88	15.559
17,800.00	9,463.02	9,313.85	9,341.99	197.02	145.70	-66.844	-131.36	5,524.39	2,758.57	2,587.79	170.78	16.153
17,900.00	9,464.77	9,303.97	9,332.13	199.32	145.70	-64.129	-131.15	5,524.85	2,858.34	2,687.48	170.87	16.728
18,000.00	9,466.51	9,273.06	9,301.27	201.61	145.69	-56.439	-130.57	5,526.46	2,958.12	2,786.96	171.16	17.283
18,100.00	9,468.26	9,278.34	9,306.54	203.91	145.69	-57.667	-130.65	5,526.15	3,057.90	2,886.79	171.12	17.870
18,200.00	9,470.00	9,262.36	9,290.59	206.21	145.69	-54.057	-130.38	5,527.04	3,157.68	2,986.40	171.28	18.436

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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Offset Design: Maximus/Decimus Offsets - Zeus 1 - OH - Surveys													Offset Site Error: 0.00 usft
Survey Program: 117-INC-ONLY, 6668-MWD													Offset Well Error: 1.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
18,300.00	9,471.75	9,248.56	9,276.81	208.51	145.69	-51.191	-130.15	5,527.86	3,257.45	3,086.03	171.43	19.002	
18,400.00	9,473.49	9,244.44	9,272.70	210.81	145.69	-50.378	-130.08	5,528.11	3,357.23	3,185.73	171.50	19.576	
18,500.00	9,475.24	9,240.33	9,268.60	213.11	145.69	-49.587	-130.01	5,528.36	3,457.01	3,285.44	171.57	20.149	
18,600.00	9,476.98	9,236.23	9,264.51	215.41	145.69	-48.816	-129.95	5,528.60	3,556.80	3,385.15	171.65	20.721	
18,700.00	9,478.73	9,232.14	9,260.43	217.71	145.69	-48.066	-129.88	5,528.85	3,656.60	3,484.86	171.74	21.291	
18,800.00	9,480.47	9,228.07	9,256.36	220.01	145.69	-47.336	-129.81	5,529.10	3,756.40	3,584.57	171.83	21.861	
18,900.00	9,482.22	9,224.00	9,252.30	222.31	145.69	-46.625	-129.74	5,529.34	3,856.21	3,684.28	171.93	22.429	
19,000.00	9,483.96	9,219.94	9,248.25	224.61	145.69	-45.932	-129.66	5,529.59	3,956.02	3,783.99	172.03	22.996	
19,100.00	9,485.71	9,219.00	9,247.31	226.91	145.69	-45.775	-129.65	5,529.64	4,055.84	3,883.73	172.11	23.566	
19,200.00	9,487.45	9,213.53	9,241.85	229.21	145.69	-44.871	-129.55	5,529.97	4,155.66	3,983.44	172.23	24.129	
19,300.00	9,489.20	9,210.50	9,238.82	231.51	145.69	-44.382	-129.51	5,530.15	4,255.49	4,083.16	172.33	24.694	
19,355.56	9,490.17	9,208.83	9,237.16	232.78	145.69	-44.117	-129.48	5,530.25	4,310.96	4,138.57	172.39	25.007	



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3068.60usft (Cactus 169)

Offset Depths are relative to Offset Datum

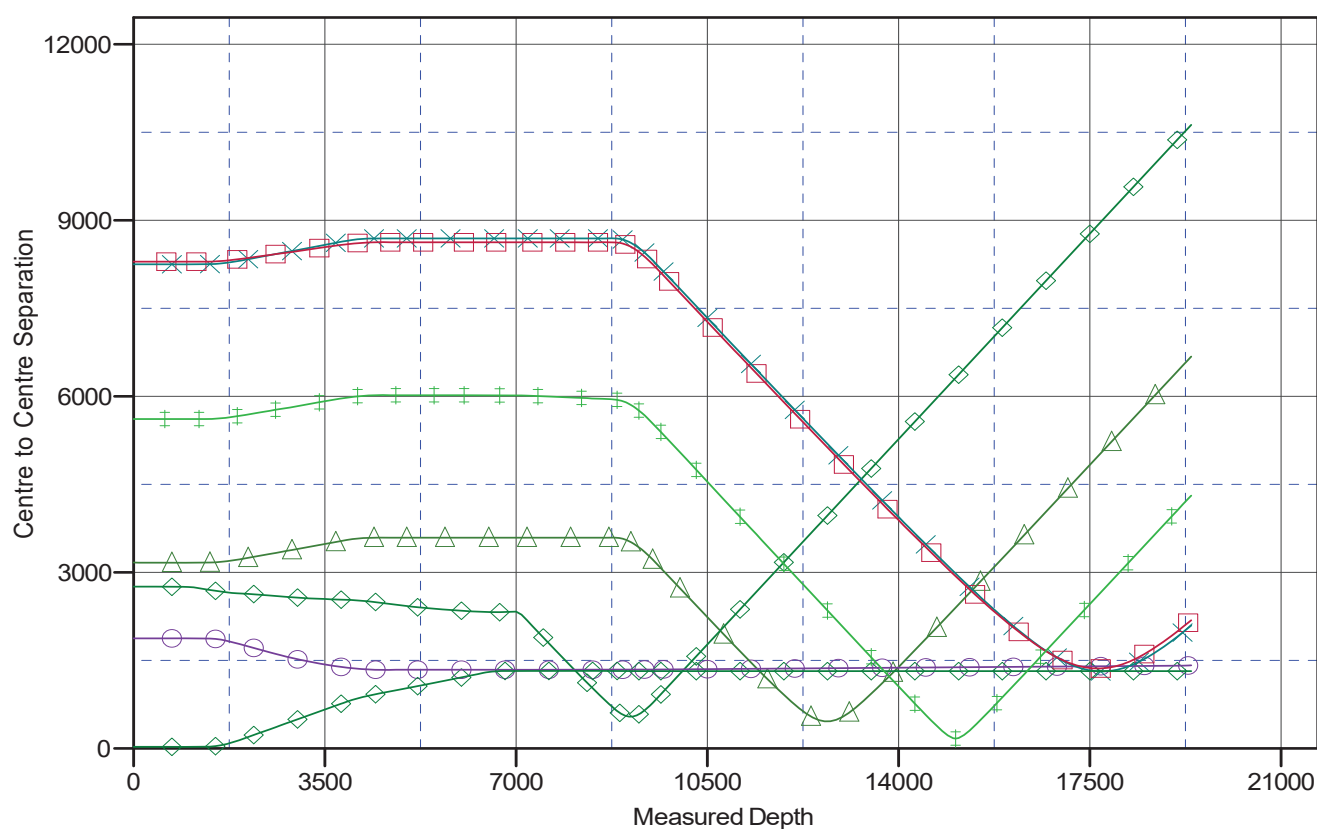
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: Maximus 5 WXY Fed Com 1H

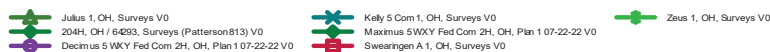
Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 300

Grid Convergence at Surface is: 0.107°

Ladder Plot



LEGEND



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



Anticollision Report



Company:	Marathon Oil Permian LLC	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Project:	Eddy County, NM (NAD27-NME)	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Reference Site:	Maximus 5 WXY Fed Com	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Well Error:	1.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	USA Compass
Reference Design:	Plan 1 07-22-22	Offset TVD Reference:	Reference Datum

Reference Depths are relative to RKB @ 3068.60usft (Cactus 169)

Offset Depths are relative to Offset Datum

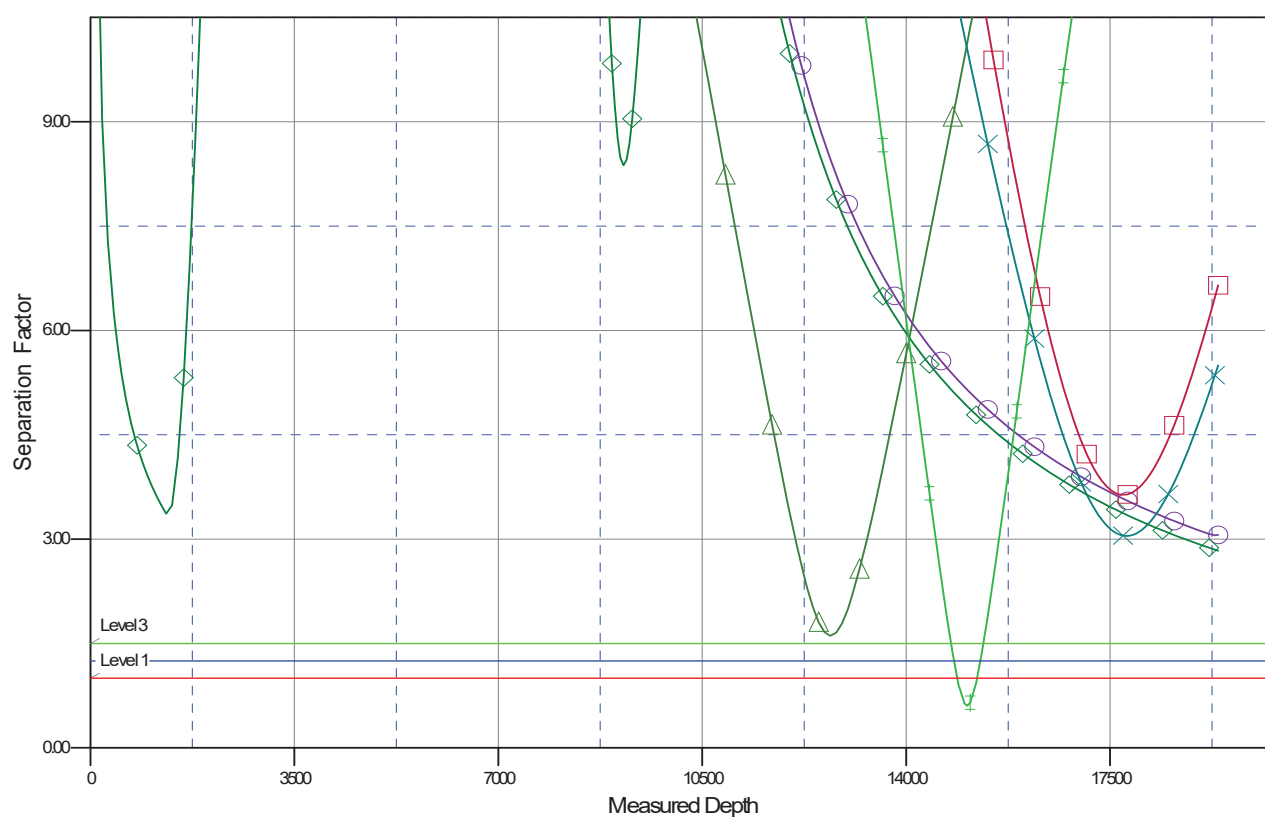
Central Meridian is 104° 19' 60.000000 W

Coordinates are relative to: Maximus 5 WXY Fed Com 1H

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

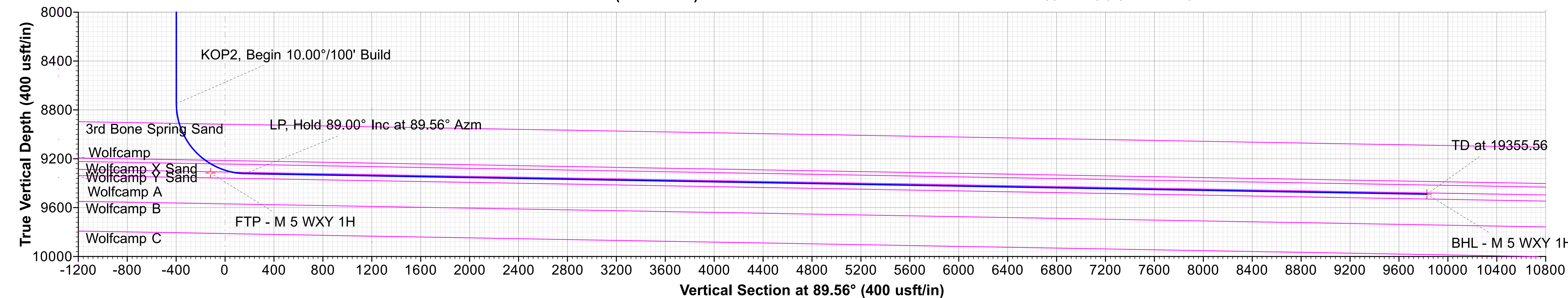
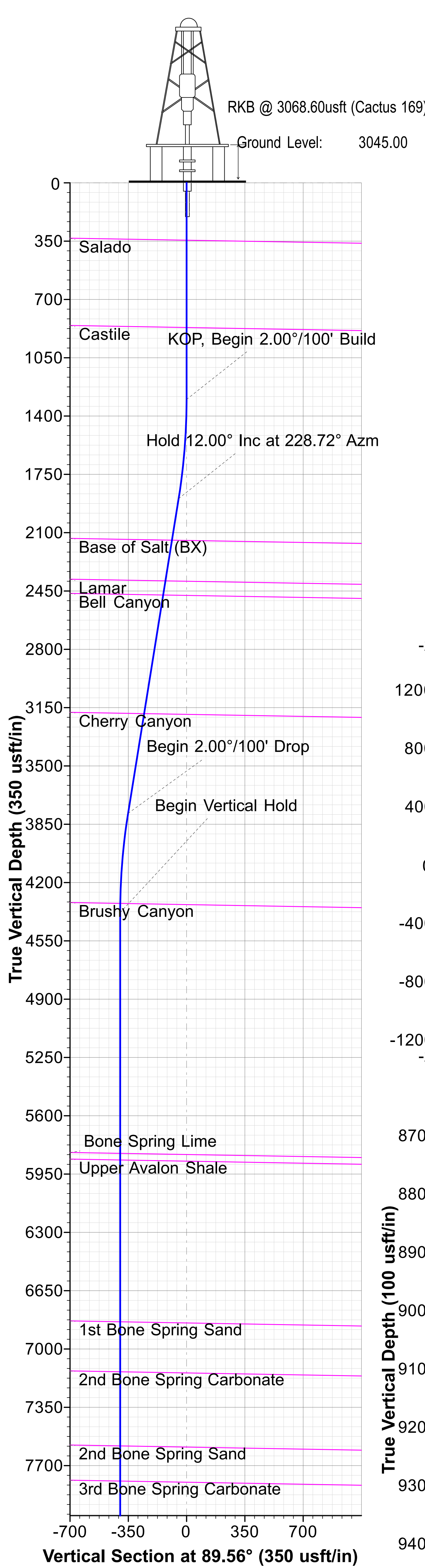
Grid Convergence at Surface is: 0.107°

Separation Factor Plot

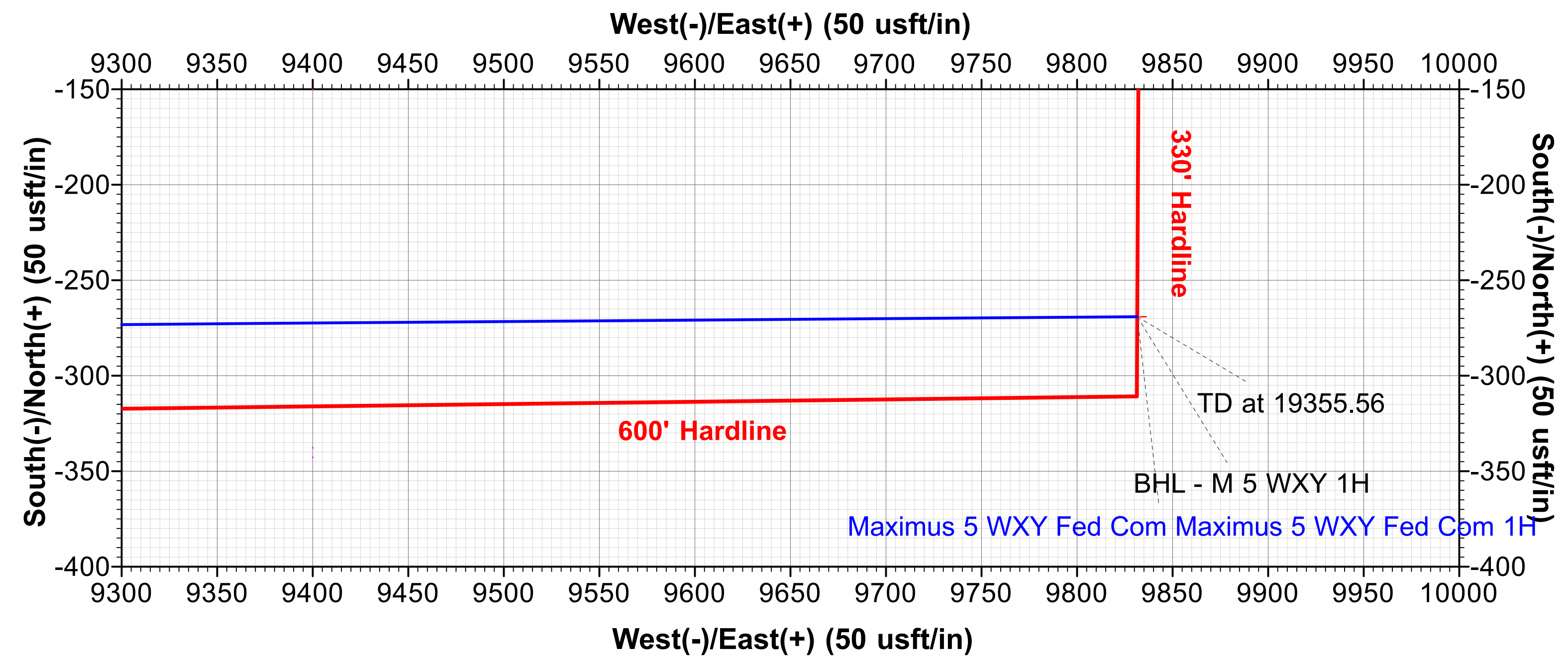
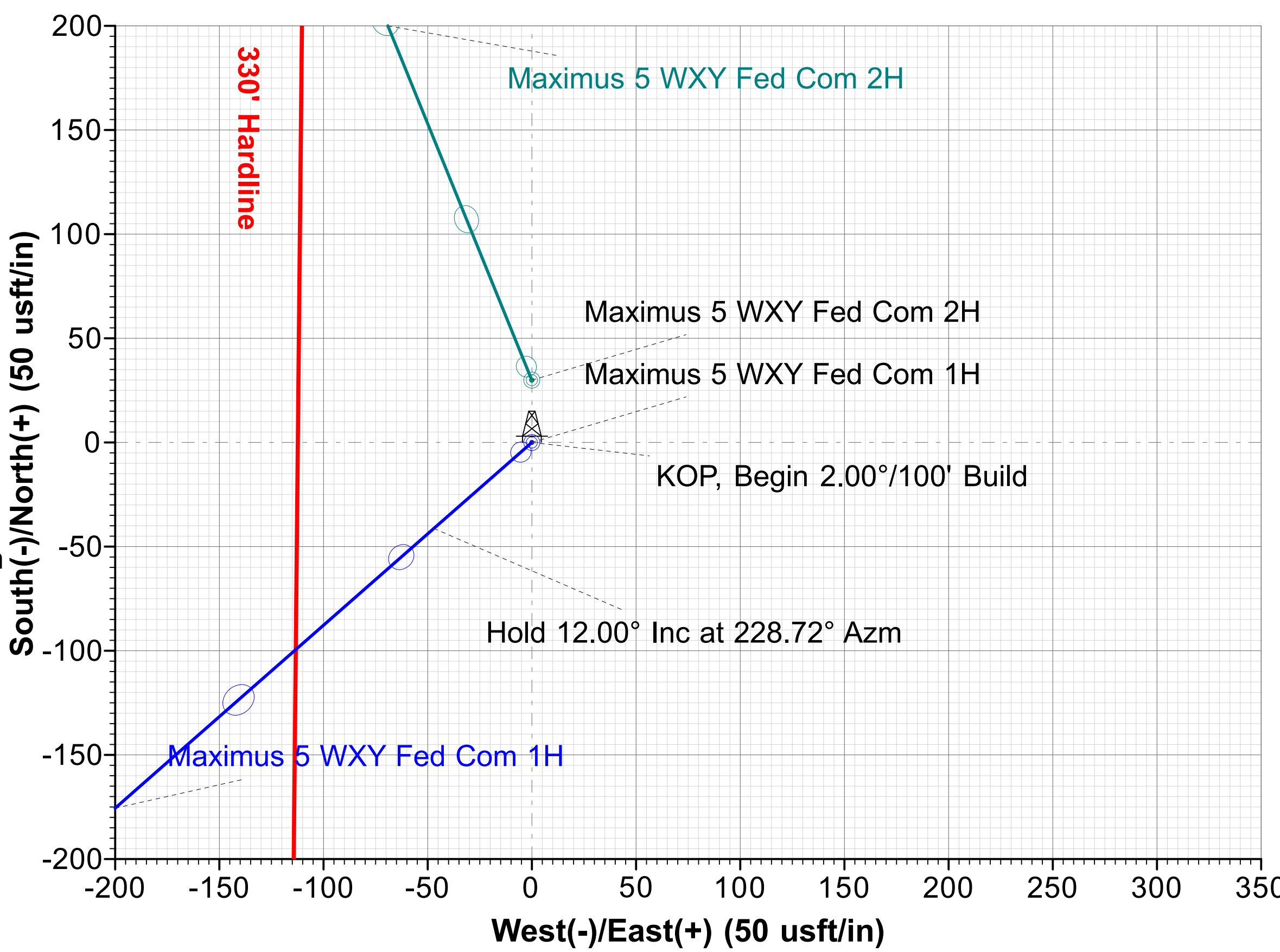
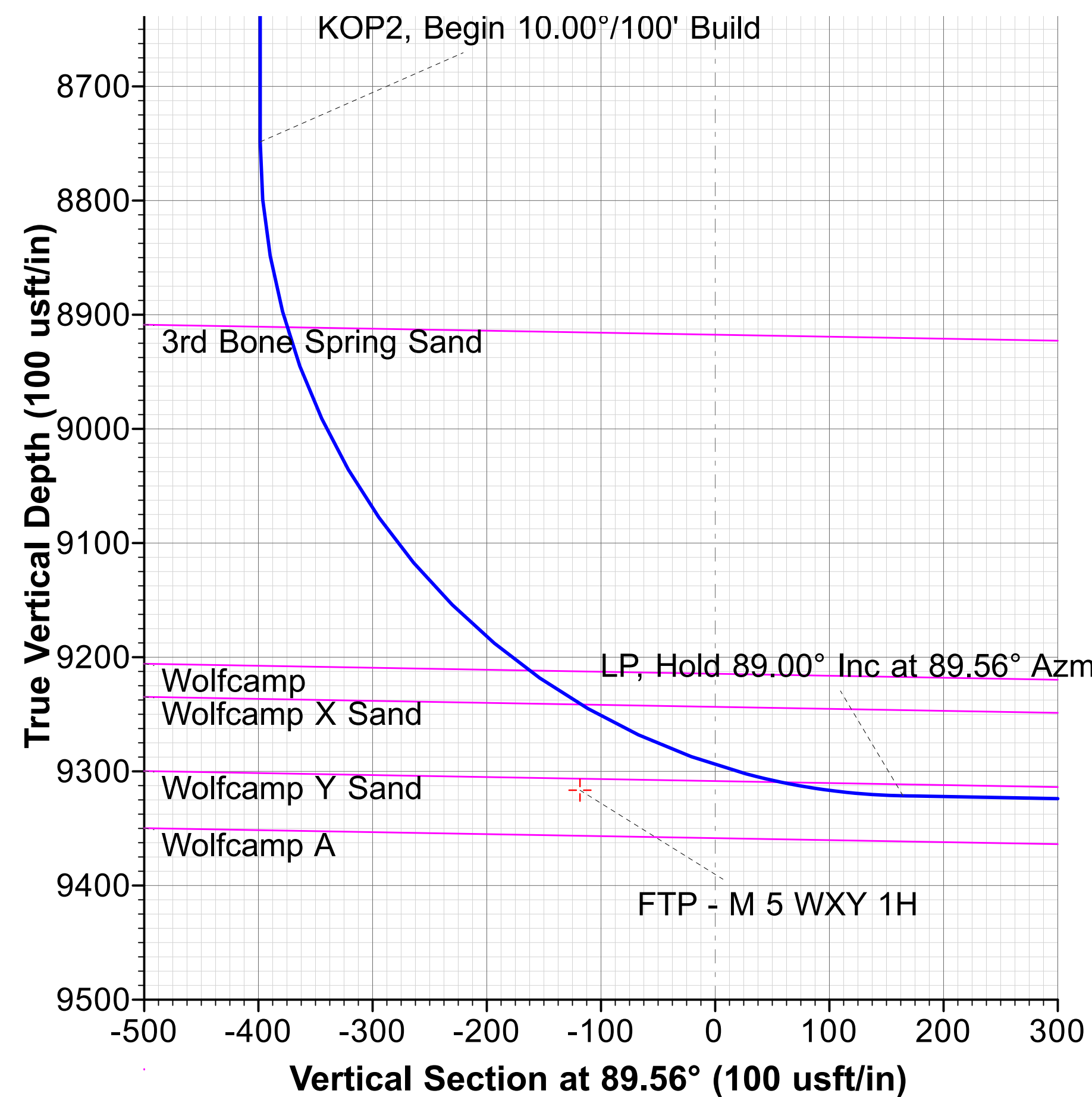
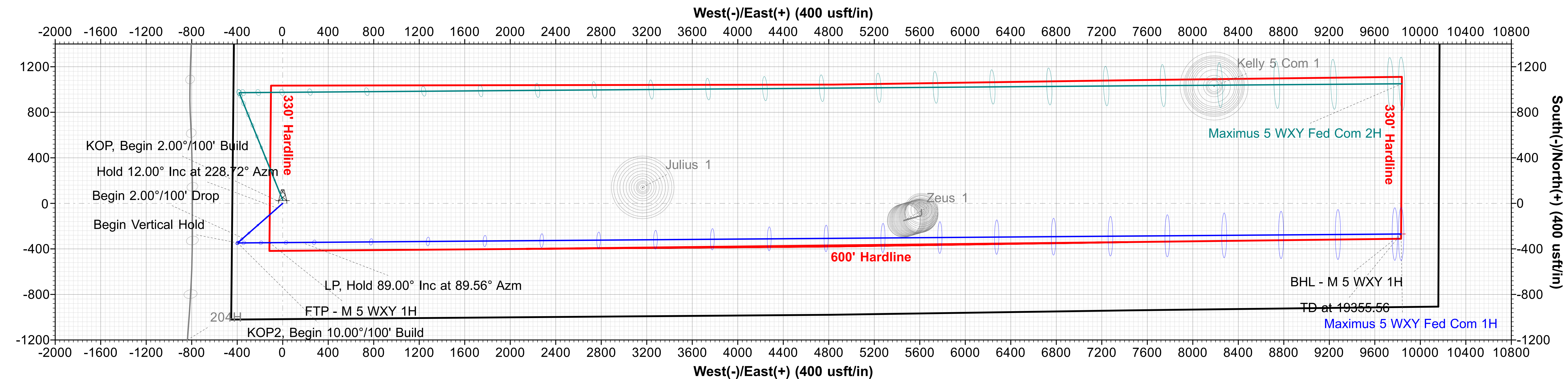


LEGEND

- Julius 1, OH, Surveys V0
- 204H, OH / 6493, Surveys (Patterson 813) V0
- Decimus 5 WXY Fed Com 2H, OH, Plan 1 07-22-22 V0
- Kelly 5 Com 1, OH, Surveys V0
- Maximus 5 WXY Fed Com 2H, OH, Plan 1 07-22-22 V0
- Swearingen A 1, OH, Surveys V0
- Zeus 1, OH, Surveys V0



WELL DETAILS											
				Ground Level: 3045.00		Latitude		Longitude			
				+N/-S 0.00		+E/-W 0.00		Northing 486428.94		Easting 561900.24 32° 20' 13.739424 N 104° 7' 58.494324 W	
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00		
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.000	0.00		KOP, Begin 2.00°/100' Build
3	1899.79	12.00	228.72	1895.42	-41.27	-47.02	2.00	228.725	-47.33		Hold 12.00° Inc at 228.72° Azm
4	3831.13	12.00	228.72	3784.58	-306.07	-348.70	0.00	0.000	-351.04		Begin 2.00°/100' Drop
5	4430.92	0.00	0.01	4380.00	-347.34	-395.71	2.00	180.000	-398.37		Begin Vertical Hold
6	8799.52	0.00	0.00	8748.60	-347.34	-395.71	0.00	0.000	-398.37		KOP2, Begin 10.00°/100' Build
7	9689.52	89.00	89.56	9321.47	-343.03	167.23	10.00	89.562	164.59		LP, Hold 89.00° Inc at 89.56° Azm
8	19355.56	89.00	89.56	9490.17	-269.11	9831.51	0.00	0.000	9829.15	BHL - M 5 WXY 1H	TD at 19355.56



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 Maximus 5 WXY Fed Com 1H, Grid North

Latitude: 32° 20' 13.739424 N
Longitude: 104° 7' 58.494324 W

Grid East: 561900.24
Grid North: 486428.94
Scale Factor: 1.000

Geomagnetic Model: MVHD
Sample Date: 30-Sep-22
Magnetic Declination: 6.877°
Dip Angle from Horizontal: 59.977°
Magnetic Field Strength: 47562.5968966nT

To convert a Magnetic Direction to a Grid Direction, Add 6.770°
To convert a Magnetic Direction to a True Direction, Add 6.877° East
To convert a True Direction to a Grid Direction, Subtract 0.107°



Marathon Oil Permian LLC

Eddy County, NM (NAD27-NME)

Maximus 5 WXY Fed Com

Maximus 5 WXY Fed Com 1H

OH

Plan: Plan 1 07-22-22

Standard Planning Report

22 July, 2022





Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site:	Maximus 5 WXY Fed Com	North Reference:	Grid
Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-22-22		

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		Maximus 5 WXY Fed Com			
Site Position: From:	Map	Northing:	486,428.94 usft	Latitude:	32° 20' 13.739424 N
		Easting:	561,900.24 usft	Longitude:	104° 7' 58.494324 W
		Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "

Well	Maximus 5 WXY Fed Com 1H					
Well Position	+N/-S	0.00 usft	Northing:	486,428.94 usft	Latitude:	32° 20' 13.739424 N
	+E/-W	0.00 usft	Easting:	561,900.24 usft	Longitude:	104° 7' 58.494324 W
Position Uncertainty		1.00 usft	Wellhead Elevation:		Ground Level:	3,045.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	MVHD	9/30/2022	6.877	59.977	47,562.59689666

Design	Plan 1 07-22-22			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.56

Plan Survey Tool Program	Date	7/22/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	19,355.56 Plan 1 07-22-22 (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	
1,899.79	12.00	228.72	1,895.42	-41.27	-47.02	2.00	2.00	0.00	228.725	
3,831.13	12.00	228.72	3,784.58	-306.07	-348.70	0.00	0.00	0.00	0.000	
4,430.92	0.00	0.01	4,380.00	-347.34	-395.71	2.00	-2.00	0.00	180.000	
8,799.52	0.00	0.00	8,748.60	-347.34	-395.71	0.00	0.00	0.00	0.000	
9,689.52	89.00	89.56	9,321.47	-343.03	167.23	10.00	10.00	0.00	89.562	
19,355.56	89.00	89.56	9,490.17	-269.11	9,831.51	0.00	0.00	0.00	0.000	BHL - M 5 WXY 1H



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site:	Maximus 5 WXY Fed Com	North Reference:	Grid
Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-22-22		

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
344.60	0.00	0.00	344.60	0.00	0.00	0.00	0.00	0.00	0.00
Salado									
868.60	0.00	0.00	868.60	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	228.72	1,399.98	-1.15	-1.31	-1.32	2.00	2.00	0.00
1,500.00	4.00	228.72	1,499.84	-4.60	-5.24	-5.28	2.00	2.00	0.00
1,600.00	6.00	228.72	1,599.45	-10.35	-11.79	-11.87	2.00	2.00	0.00
1,700.00	8.00	228.72	1,698.70	-18.39	-20.95	-21.09	2.00	2.00	0.00
1,800.00	10.00	228.72	1,797.47	-28.71	-32.71	-32.93	2.00	2.00	0.00
1,899.79	12.00	228.72	1,895.42	-41.27	-47.02	-47.33	2.00	2.00	0.00
Hold 12.00° Inc at 228.72° Azm									
1,900.00	12.00	228.72	1,895.62	-41.30	-47.05	-47.36	0.00	0.00	0.00
2,000.00	12.00	228.72	1,993.44	-55.01	-62.67	-63.09	0.00	0.00	0.00
2,100.00	12.00	228.72	2,091.26	-68.72	-78.29	-78.81	0.00	0.00	0.00
2,155.02	12.00	228.72	2,145.07	-76.26	-86.88	-87.47	0.00	0.00	0.00
Base of Salt (BX)									
2,200.00	12.00	228.72	2,189.07	-82.43	-93.91	-94.54	0.00	0.00	0.00
2,300.00	12.00	228.72	2,286.89	-96.14	-109.53	-110.26	0.00	0.00	0.00
2,400.00	12.00	228.72	2,384.70	-109.85	-125.15	-125.99	0.00	0.00	0.00
2,404.79	12.00	228.72	2,389.39	-110.51	-125.90	-126.74	0.00	0.00	0.00
Lamar									
2,491.44	12.00	228.72	2,474.15	-122.39	-139.43	-140.37	0.00	0.00	0.00
Bell Canyon									
2,500.00	12.00	228.72	2,482.52	-123.56	-140.77	-141.71	0.00	0.00	0.00
2,600.00	12.00	228.72	2,580.34	-137.27	-156.39	-157.44	0.00	0.00	0.00
2,700.00	12.00	228.72	2,678.15	-150.98	-172.01	-173.16	0.00	0.00	0.00
2,800.00	12.00	228.72	2,775.97	-164.69	-187.63	-188.89	0.00	0.00	0.00
2,900.00	12.00	228.72	2,873.79	-178.41	-203.25	-204.61	0.00	0.00	0.00
3,000.00	12.00	228.72	2,971.60	-192.12	-218.87	-220.34	0.00	0.00	0.00
3,100.00	12.00	228.72	3,069.42	-205.83	-234.49	-236.07	0.00	0.00	0.00
3,200.00	12.00	228.72	3,167.23	-219.54	-250.11	-251.79	0.00	0.00	0.00
3,219.34	12.00	228.72	3,186.15	-222.19	-253.13	-254.83	0.00	0.00	0.00
Cherry Canyon									
3,300.00	12.00	228.72	3,265.05	-233.25	-265.73	-267.52	0.00	0.00	0.00
3,400.00	12.00	228.72	3,362.87	-246.96	-281.35	-283.24	0.00	0.00	0.00
3,500.00	12.00	228.72	3,460.68	-260.67	-296.97	-298.97	0.00	0.00	0.00
3,600.00	12.00	228.72	3,558.50	-274.38	-312.59	-314.69	0.00	0.00	0.00
3,700.00	12.00	228.72	3,656.32	-288.09	-328.21	-330.42	0.00	0.00	0.00
3,800.00	12.00	228.72	3,754.13	-301.80	-343.83	-346.14	0.00	0.00	0.00
3,831.13	12.00	228.72	3,784.58	-306.07	-348.70	-351.04	0.00	0.00	0.00
Begin 2.00°/100' Drop									
3,900.00	10.62	228.72	3,852.11	-314.98	-358.84	-361.25	2.00	-2.00	0.00
4,000.00	8.62	228.72	3,950.70	-326.00	-371.40	-373.89	2.00	-2.00	0.00
4,100.00	6.62	228.72	4,049.82	-334.75	-381.36	-383.92	2.00	-2.00	0.00
4,200.00	4.62	228.72	4,149.33	-341.20	-388.72	-391.33	2.00	-2.00	0.00
4,300.00	2.62	228.72	4,249.13	-345.37	-393.46	-396.10	2.00	-2.00	0.00
4,376.57	1.09	228.72	4,325.65	-347.00	-395.32	-397.98	2.00	-2.00	0.00
Brushy Canyon									
4,400.00	0.62	228.72	4,349.08	-347.23	-395.59	-398.24	2.00	-2.00	0.00
4,430.92	0.00	0.00	4,380.00	-347.34	-395.71	-398.37	2.00	-2.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site:	Maximus 5 WXY Fed Com	North Reference:	Grid
Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-22-22		

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)	
Begin Vertical Hold										
5,876.57	0.00	0.00	5,825.65	-347.34	-395.71	-398.37	0.00	0.00	0.00	
Bone Spring Lime										
5,916.57	0.00	0.00	5,865.65	-347.34	-395.71	-398.37	0.00	0.00	0.00	
Upper Avalon Shale										
6,887.57	0.00	0.00	6,836.65	-347.34	-395.71	-398.37	0.00	0.00	0.00	
1st Bone Spring Sand										
7,187.57	0.00	0.00	7,136.65	-347.34	-395.71	-398.37	0.00	0.00	0.00	
2nd Bone Spring Carbonate										
7,632.57	0.00	0.00	7,581.65	-347.34	-395.71	-398.37	0.00	0.00	0.00	
2nd Bone Spring Sand										
7,843.57	0.00	0.00	7,792.65	-347.34	-395.71	-398.37	0.00	0.00	0.00	
3rd Bone Spring Carbonate										
8,799.52	0.00	0.00	8,748.60	-347.34	-395.71	-398.37	0.00	0.00	0.00	
KOP2, Begin 10.00°/100' Build										
8,800.00	0.05	89.56	8,749.08	-347.34	-395.71	-398.37	10.00	10.00	0.00	
8,900.00	10.05	89.56	8,848.57	-347.27	-386.92	-389.58	10.00	10.00	0.00	
8,964.24	16.47	89.56	8,911.06	-347.16	-372.20	-374.85	10.00	10.00	0.00	
3rd Bone Spring Sand										
9,000.00	20.05	89.56	8,945.01	-347.07	-361.00	-363.65	10.00	10.00	0.00	
9,100.00	30.05	89.56	9,035.50	-346.75	-318.71	-321.37	10.00	10.00	0.00	
9,200.00	40.05	89.56	9,117.26	-346.31	-261.36	-264.01	10.00	10.00	0.00	
9,300.00	50.05	89.56	9,187.82	-345.77	-190.68	-193.33	10.00	10.00	0.00	
9,338.89	53.94	89.56	9,211.76	-345.54	-160.05	-162.70	10.00	10.00	0.00	
Wolfcamp										
9,393.09	59.36	89.56	9,241.55	-345.19	-114.79	-117.44	10.00	10.00	0.00	
Wolfcamp X Sand										
9,400.00	60.05	89.56	9,245.04	-345.15	-108.83	-111.47	10.00	10.00	0.00	
9,500.00	70.05	89.56	9,287.17	-344.45	-18.28	-20.92	10.00	10.00	0.00	
9,582.33	78.28	89.56	9,309.62	-343.85	60.86	58.21	10.00	10.00	0.00	
Wolfcamp Y Sand										
9,600.00	80.05	89.56	9,312.94	-343.71	78.21	75.57	10.00	10.00	0.00	
9,689.52	89.00	89.56	9,321.47	-343.03	167.23	164.59	10.00	10.00	0.00	
LP, Hold 89.00° Inc at 89.56° Azm										
9,700.00	89.00	89.56	9,321.66	-342.95	177.71	175.07	0.00	0.00	0.00	
9,800.00	89.00	89.56	9,323.40	-342.19	277.69	275.05	0.00	0.00	0.00	
9,900.00	89.00	89.56	9,325.15	-341.42	377.67	375.04	0.00	0.00	0.00	
10,000.00	89.00	89.56	9,326.89	-340.66	477.65	475.02	0.00	0.00	0.00	
10,100.00	89.00	89.56	9,328.64	-339.89	577.63	575.01	0.00	0.00	0.00	
10,200.00	89.00	89.56	9,330.38	-339.13	677.62	674.99	0.00	0.00	0.00	
10,300.00	89.00	89.56	9,332.13	-338.36	777.60	774.98	0.00	0.00	0.00	
10,400.00	89.00	89.56	9,333.87	-337.60	877.58	874.96	0.00	0.00	0.00	
10,500.00	89.00	89.56	9,335.62	-336.84	977.56	974.95	0.00	0.00	0.00	
10,600.00	89.00	89.56	9,337.36	-336.07	1,077.54	1,074.93	0.00	0.00	0.00	
10,700.00	89.00	89.56	9,339.11	-335.31	1,177.53	1,174.92	0.00	0.00	0.00	
10,800.00	89.00	89.56	9,340.85	-334.54	1,277.51	1,274.90	0.00	0.00	0.00	
10,900.00	89.00	89.56	9,342.60	-333.78	1,377.49	1,374.89	0.00	0.00	0.00	
11,000.00	89.00	89.56	9,344.34	-333.01	1,477.47	1,474.87	0.00	0.00	0.00	
11,100.00	89.00	89.56	9,346.09	-332.25	1,577.45	1,574.85	0.00	0.00	0.00	
11,200.00	89.00	89.56	9,347.83	-331.48	1,677.43	1,674.84	0.00	0.00	0.00	
11,300.00	89.00	89.56	9,349.58	-330.72	1,777.42	1,774.82	0.00	0.00	0.00	
11,400.00	89.00	89.56	9,351.32	-329.95	1,877.40	1,874.81	0.00	0.00	0.00	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site:	Maximus 5 WXY Fed Com	North Reference:	Grid
Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-22-22		

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)
11,500.00	89.00	89.56	9,353.07	-329.19	1,977.38	1,974.79	0.00	0.00	0.00
11,600.00	89.00	89.56	9,354.82	-328.42	2,077.36	2,074.78	0.00	0.00	0.00
11,700.00	89.00	89.56	9,356.56	-327.66	2,177.34	2,174.76	0.00	0.00	0.00
11,800.00	89.00	89.56	9,358.31	-326.89	2,277.33	2,274.75	0.00	0.00	0.00
11,900.00	89.00	89.56	9,360.05	-326.13	2,377.31	2,374.73	0.00	0.00	0.00
12,000.00	89.00	89.56	9,361.80	-325.36	2,477.29	2,474.72	0.00	0.00	0.00
12,100.00	89.00	89.56	9,363.54	-324.60	2,577.27	2,574.70	0.00	0.00	0.00
12,200.00	89.00	89.56	9,365.29	-323.83	2,677.25	2,674.69	0.00	0.00	0.00
12,300.00	89.00	89.56	9,367.03	-323.07	2,777.23	2,774.67	0.00	0.00	0.00
12,400.00	89.00	89.56	9,368.78	-322.30	2,877.22	2,874.66	0.00	0.00	0.00
12,500.00	89.00	89.56	9,370.52	-321.54	2,977.20	2,974.64	0.00	0.00	0.00
12,600.00	89.00	89.56	9,372.27	-320.77	3,077.18	3,074.63	0.00	0.00	0.00
12,700.00	89.00	89.56	9,374.01	-320.01	3,177.16	3,174.61	0.00	0.00	0.00
12,800.00	89.00	89.56	9,375.76	-319.24	3,277.14	3,274.60	0.00	0.00	0.00
12,900.00	89.00	89.56	9,377.50	-318.48	3,377.13	3,374.58	0.00	0.00	0.00
13,000.00	89.00	89.56	9,379.25	-317.72	3,477.11	3,474.57	0.00	0.00	0.00
13,100.00	89.00	89.56	9,380.99	-316.95	3,577.09	3,574.55	0.00	0.00	0.00
13,200.00	89.00	89.56	9,382.74	-316.19	3,677.07	3,674.53	0.00	0.00	0.00
13,300.00	89.00	89.56	9,384.48	-315.42	3,777.05	3,774.52	0.00	0.00	0.00
13,400.00	89.00	89.56	9,386.23	-314.66	3,877.04	3,874.50	0.00	0.00	0.00
13,500.00	89.00	89.56	9,387.97	-313.89	3,977.02	3,974.49	0.00	0.00	0.00
13,600.00	89.00	89.56	9,389.72	-313.13	4,077.00	4,074.47	0.00	0.00	0.00
13,700.00	89.00	89.56	9,391.47	-312.36	4,176.98	4,174.46	0.00	0.00	0.00
13,800.00	89.00	89.56	9,393.21	-311.60	4,276.96	4,274.44	0.00	0.00	0.00
13,900.00	89.00	89.56	9,394.96	-310.83	4,376.94	4,374.43	0.00	0.00	0.00
14,000.00	89.00	89.56	9,396.70	-310.07	4,476.93	4,474.41	0.00	0.00	0.00
14,100.00	89.00	89.56	9,398.45	-309.30	4,576.91	4,574.40	0.00	0.00	0.00
14,200.00	89.00	89.56	9,400.19	-308.54	4,676.89	4,674.38	0.00	0.00	0.00
14,300.00	89.00	89.56	9,401.94	-307.77	4,776.87	4,774.37	0.00	0.00	0.00
14,400.00	89.00	89.56	9,403.68	-307.01	4,876.85	4,874.35	0.00	0.00	0.00
14,500.00	89.00	89.56	9,405.43	-306.24	4,976.84	4,974.34	0.00	0.00	0.00
14,600.00	89.00	89.56	9,407.17	-305.48	5,076.82	5,074.32	0.00	0.00	0.00
14,700.00	89.00	89.56	9,408.92	-304.71	5,176.80	5,174.31	0.00	0.00	0.00
14,800.00	89.00	89.56	9,410.66	-303.95	5,276.78	5,274.29	0.00	0.00	0.00
14,900.00	89.00	89.56	9,412.41	-303.18	5,376.76	5,374.28	0.00	0.00	0.00
15,000.00	89.00	89.56	9,414.15	-302.42	5,476.74	5,474.26	0.00	0.00	0.00
15,100.00	89.00	89.56	9,415.90	-301.65	5,576.73	5,574.25	0.00	0.00	0.00
15,200.00	89.00	89.56	9,417.64	-300.89	5,676.71	5,674.23	0.00	0.00	0.00
15,300.00	89.00	89.56	9,419.39	-300.12	5,776.69	5,774.22	0.00	0.00	0.00
15,400.00	89.00	89.56	9,421.13	-299.36	5,876.67	5,874.20	0.00	0.00	0.00
15,500.00	89.00	89.56	9,422.88	-298.60	5,976.65	5,974.18	0.00	0.00	0.00
15,600.00	89.00	89.56	9,424.62	-297.83	6,076.64	6,074.17	0.00	0.00	0.00
15,700.00	89.00	89.56	9,426.37	-297.07	6,176.62	6,174.15	0.00	0.00	0.00
15,800.00	89.00	89.56	9,428.12	-296.30	6,276.60	6,274.14	0.00	0.00	0.00
15,900.00	89.00	89.56	9,429.86	-295.54	6,376.58	6,374.12	0.00	0.00	0.00
16,000.00	89.00	89.56	9,431.61	-294.77	6,476.56	6,474.11	0.00	0.00	0.00
16,100.00	89.00	89.56	9,433.35	-294.01	6,576.54	6,574.09	0.00	0.00	0.00
16,200.00	89.00	89.56	9,435.10	-293.24	6,676.53	6,674.08	0.00	0.00	0.00
16,300.00	89.00	89.56	9,436.84	-292.48	6,776.51	6,774.06	0.00	0.00	0.00
16,400.00	89.00	89.56	9,438.59	-291.71	6,876.49	6,874.05	0.00	0.00	0.00
16,500.00	89.00	89.56	9,440.33	-290.95	6,976.47	6,974.03	0.00	0.00	0.00
16,600.00	89.00	89.56	9,442.08	-290.18	7,076.45	7,074.02	0.00	0.00	0.00
16,700.00	89.00	89.56	9,443.82	-289.42	7,176.44	7,174.00	0.00	0.00	0.00
16,800.00	89.00	89.56	9,445.57	-288.65	7,276.42	7,273.99	0.00	0.00	0.00



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site:	Maximus 5 WXY Fed Com	North Reference:	Grid
Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-22-22		

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)
16,900.00	89.00	89.56	9,447.31	-287.89	7,376.40	7,373.97	0.00	0.00	0.00
17,000.00	89.00	89.56	9,449.06	-287.12	7,476.38	7,473.96	0.00	0.00	0.00
17,100.00	89.00	89.56	9,450.80	-286.36	7,576.36	7,573.94	0.00	0.00	0.00
17,200.00	89.00	89.56	9,452.55	-285.59	7,676.35	7,673.93	0.00	0.00	0.00
17,300.00	89.00	89.56	9,454.29	-284.83	7,776.33	7,773.91	0.00	0.00	0.00
17,400.00	89.00	89.56	9,456.04	-284.06	7,876.31	7,873.90	0.00	0.00	0.00
17,500.00	89.00	89.56	9,457.78	-283.30	7,976.29	7,973.88	0.00	0.00	0.00
17,600.00	89.00	89.56	9,459.53	-282.53	8,076.27	8,073.86	0.00	0.00	0.00
17,700.00	89.00	89.56	9,461.27	-281.77	8,176.25	8,173.85	0.00	0.00	0.00
17,800.00	89.00	89.56	9,463.02	-281.00	8,276.24	8,273.83	0.00	0.00	0.00
17,900.00	89.00	89.56	9,464.77	-280.24	8,376.22	8,373.82	0.00	0.00	0.00
18,000.00	89.00	89.56	9,466.51	-279.48	8,476.20	8,473.80	0.00	0.00	0.00
18,100.00	89.00	89.56	9,468.26	-278.71	8,576.18	8,573.79	0.00	0.00	0.00
18,200.00	89.00	89.56	9,470.00	-277.95	8,676.16	8,673.77	0.00	0.00	0.00
18,300.00	89.00	89.56	9,471.75	-277.18	8,776.15	8,773.76	0.00	0.00	0.00
18,400.00	89.00	89.56	9,473.49	-276.42	8,876.13	8,873.74	0.00	0.00	0.00
18,500.00	89.00	89.56	9,475.24	-275.65	8,976.11	8,973.73	0.00	0.00	0.00
18,600.00	89.00	89.56	9,476.98	-274.89	9,076.09	9,073.71	0.00	0.00	0.00
18,700.00	89.00	89.56	9,478.73	-274.12	9,176.07	9,173.70	0.00	0.00	0.00
18,800.00	89.00	89.56	9,480.47	-273.36	9,276.05	9,273.68	0.00	0.00	0.00
18,900.00	89.00	89.56	9,482.22	-272.59	9,376.04	9,373.67	0.00	0.00	0.00
19,000.00	89.00	89.56	9,483.96	-271.83	9,476.02	9,473.65	0.00	0.00	0.00
19,100.00	89.00	89.56	9,485.71	-271.06	9,576.00	9,573.64	0.00	0.00	0.00
19,200.00	89.00	89.56	9,487.45	-270.30	9,675.98	9,673.62	0.00	0.00	0.00
19,300.00	89.00	89.56	9,489.20	-269.53	9,775.96	9,773.61	0.00	0.00	0.00
19,355.56	89.00	89.56	9,490.17	-269.11	9,831.51	9,829.15	0.00	0.00	0.00
TD at 19355.56									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP - M 5 WXY 1H	0.00	0.00	9,316.53	-345.20	-115.72	486,083.74	561,784.52	32° 20' 10.325436 N	104° 7' 59.850624 W
- hit/miss target									
- Shape									
- plan misses target center by 66.14usft at 9423.94usft MD (9256.55 TVD, -344.98 N, -87.84 E)									
- Point									
BHL - M 5 WXY 1H	0.00	0.00	9,490.17	-269.11	9,831.51	486,159.83	571,731.75	32° 20' 10.879800 N	104° 6' 3.906360 W
- plan hits target center									
- Point									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
19,355.56	9,490.17	20" Casing	20	24	



Planning Report



Database:	USA Compass	Local Co-ordinate Reference:	Well Maximus 5 WXY Fed Com 1H
Company:	Marathon Oil Permian LLC	TVD Reference:	RKB @ 3068.60usft (Cactus 169)
Project:	Eddy County, NM (NAD27-NME)	MD Reference:	RKB @ 3068.60usft (Cactus 169)
Site:	Maximus 5 WXY Fed Com	North Reference:	Grid
Well:	Maximus 5 WXY Fed Com 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan 1 07-22-22		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
344.60	344.60	Salado		1.000	89.56	
868.60	868.60	Castile		1.000	89.56	
2,155.02	2,145.07	Base of Salt (BX)		1.000	89.56	
2,404.79	2,389.39	Lamar		1.000	89.56	
2,491.44	2,474.15	Bell Canyon		1.000	89.56	
3,219.34	3,186.15	Cherry Canyon		1.000	89.56	
4,376.57	4,325.65	Brushy Canyon		1.000	89.56	
5,876.57	5,825.65	Bone Spring Lime		1.000	89.56	
5,916.57	5,865.65	Upper Avalon Shale		1.000	89.56	
6,887.57	6,836.65	1st Bone Spring Sand		1.000	89.56	
7,187.57	7,136.65	2nd Bone Spring Carbonate		1.000	89.56	
7,632.57	7,581.65	2nd Bone Spring Sand		1.000	89.56	
7,843.57	7,792.65	3rd Bone Spring Carbonate		1.000	89.56	
8,964.24	8,911.06	3rd Bone Spring Sand		1.000	89.56	
9,338.89	9,211.76	Wolfcamp		1.000	89.56	
9,393.09	9,241.55	Wolfcamp X Sand		1.000	89.56	
9,582.33	9,309.62	Wolfcamp Y Sand		1.000	89.56	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,300.00	1,300.00	0.00	0.00	KOP, Begin 2.00°/100' Build	
1,899.79	1,895.42	-41.27	-47.02	Hold 12.00° Inc at 228.72° Azm	
3,831.13	3,784.58	-306.07	-348.70	Begin 2.00°/100' Drop	
4,430.92	4,380.00	-347.34	-395.71	Begin Vertical Hold	
8,799.52	8,748.60	-347.34	-395.71	KOP2, Begin 10.00°/100' Build	
9,689.52	9,321.47	-343.03	167.23	LP, Hold 89.00° Inc at 89.56° Azm	
19,355.56	9,490.17	-269.11	9,831.51	TD at 19355.56	