

NM OIL CONSERVATION  
ARTESIA DISTRICT  
NOV 17 2017

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## **Marathon Oil Permian, LLC**

Eddy County, NM (NAD27)

Mariner Fee

23-28-20 WXY #11H

OH

Plan: Plan#1

## **Standard Flanning Report**

10 November, 2017



**Scientific Drilling**

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# Planning Report

|                  |                           |                                    |                                       |
|------------------|---------------------------|------------------------------------|---------------------------------------|
| <b>Database:</b> | Midland District          | <b>Local Coordinate Reference:</b> | Well 23-28-20 WXY #11H                |
| <b>Company:</b>  | Marathon Oil Permian, LLC | <b>TVD Reference:</b>              | KB = 28' @8103.00usft (Patterson 244) |
| <b>Project:</b>  | Eddy County, NM (NAD27)   | <b>MD Reference:</b>               | KB = 28' @8103.00usft (Patterson 244) |
| <b>Site:</b>     | Mariner Fee               | <b>North Reference:</b>            | Grid                                  |
| <b>Well:</b>     | 23-28-20 WKY #11H         | <b>Survey Calculation Method:</b>  | Minimum Curvature                     |
| <b>Wellbore:</b> | OH                        |                                    |                                       |
| <b>Design:</b>   | Plan #1                   |                                    |                                       |

|                    |                                     |                      |                             |
|--------------------|-------------------------------------|----------------------|-----------------------------|
| <b>Project:</b>    | Eddy County, NM NAD27               |                      |                             |
| <b>Map System:</b> | US State Plane 1927(Exact solution) | <b>System Datum:</b> | Mean Sea Level              |
| <b>Geo Datum:</b>  | NAD 1927 NADCON CONUS               |                      |                             |
| <b>Map Zone:</b>   | New Mexico East 3001                |                      | Using geodetic scale factor |

|                              |             |                          |                 |
|------------------------------|-------------|--------------------------|-----------------|
| <b>Site:</b>                 | Mariner Fee |                          |                 |
| <b>Site Position:</b>        |             | <b>Northing:</b>         | 467,045.09 usft |
| <b>From:</b>                 | Map         | <b>Easting:</b>          | 567,982.27 usft |
| <b>Position Uncertainty:</b> | 0.00 usft   | <b>Slot Radius:</b>      | 13-3/16 "       |
|                              |             | <b>Latitude:</b>         | 32° 17'1.795 N  |
|                              |             | <b>Longitude:</b>        | 104° 6'48.067 W |
|                              |             | <b>Grid Convergence:</b> | 0.12 °          |

|                             |                   |                            |                                  |
|-----------------------------|-------------------|----------------------------|----------------------------------|
| <b>Well:</b>                | 23-28-20 WKY #11H |                            |                                  |
| <b>Well Position</b>        | +N/-S             | 0.00 usft                  | <b>Northing:</b> 467,045.09 usft |
|                             | +E/-W             | 0.00 usft                  | <b>Easting:</b> 567,982.27 usft  |
| <b>Position Uncertainty</b> | 0.00 usft         | <b>Wellhead Elevation:</b> | 0.00 usft                        |
|                             |                   | <b>Latitude:</b>           | 32° 17'1.795 N                   |
|                             |                   | <b>Longitude:</b>          | 104° 6'48.067 W                  |
|                             |                   | <b>Ground Level:</b>       | 3,075.00 usft                    |

|                  |    |
|------------------|----|
| <b>Wellbore:</b> | OH |
|------------------|----|

| Magnetics | Model Name | Sample Date | Declination<br>(°) | Dip Angle<br>(°) | Field Strength<br>(nT) |
|-----------|------------|-------------|--------------------|------------------|------------------------|
|           | HDGM       | 11/3/2017   | 7.32               | 60.12            | 48,074                 |

|                |         |
|----------------|---------|
| <b>Design:</b> | Plan #1 |
|----------------|---------|

|                     |                                |
|---------------------|--------------------------------|
| <b>Audit Notes:</b> |                                |
| <b>Version:</b>     | Phase: PLAN Tie On Depth: 0.00 |

| Vertical Section: | Depth From (TVD)<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Direction<br>(bearing) |
|-------------------|----------------------------|-----------------|-----------------|------------------------|
|                   | 0.00                       | 0.00            | 0.00            | 350.84                 |

| Plan Sections               |                    |                      |                             |                 |                 |                               |                              |                             |            |             |
|-----------------------------|--------------------|----------------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|-------------|
| Measured<br>Depth<br>(usft) | Inclination<br>(°) | Azimuth<br>(bearing) | Vertical<br>Depth<br>(usft) | +N/-S<br>(usft) | +E/-W<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) | TFO<br>(°) | Target      |
| 0.00                        | 0.00               | 0.00                 | 0.00                        | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.00       |             |
| 1,000.00                    | 0.00               | 0.18                 | 1,000.00                    | 0.00            | 0.00            | 0.00                          | 0.00                         | 0.00                        | 0.18       |             |
| 1,270.50                    | 5.41               | 260.00               | 1,270.10                    | -2.22           | -12.57          | 2.00                          | 2.00                         | 0.00                        | 260.00     |             |
| 6,270.50                    | 5.41               | 260.00               | 6,247.83                    | -84.08          | -476.82         | 0.00                          | 0.00                         | 0.00                        | 0.00       |             |
| 8,856.38                    | 5.41               | 260.00               | 8,822.18                    | -126.41         | -716.91         | 0.00                          | 0.00                         | 0.00                        | 0.00       |             |
| 9,765.75                    | 90.00              | 359.99               | 9,402.00                    | 446.46          | -771.04         | 10.00                         | 9.30                         | 11.00                       | 99.95      |             |
| 14,102.41                   | 90.00              | 359.99               | 9,402.00                    | 4,783.12        | -771.44         | 0.00                          | 0.00                         | 0.00                        | 0.00       | BHL[MF#11H] |

# Planning Report

**Database:** Midland District  
**Company:** Marathon Oil Permian, LLC  
**Project:** Eddy County, NM (NAD27)  
**Site:** Mariner Fee  
**Well:** 23-28-20 WKY #11H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Coordinate Reference:** Well 23-28-20 WXY #11H  
**TVD Reference:** KB = 28' @103.00usft (Patterson 244)  
**MD Reference:** KB = 28' @103.00usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

## Planned Survey

| Measured<br>Depth<br>(usft)  | Inclination<br>(°) | Azimuth<br>(bearing) | Vertical<br>Depth<br>(usft) | +N-S<br>(usft) | +E-W<br>(usft) | Vertical<br>Section<br>(usft) | Dogleg<br>Rate<br>(°/100usft) | Build<br>Rate<br>(°/100usft) | Turn<br>Rate<br>(°/100usft) |
|------------------------------|--------------------|----------------------|-----------------------------|----------------|----------------|-------------------------------|-------------------------------|------------------------------|-----------------------------|
| 0.00                         | 0.00               | 0.00                 | 0.00                        | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 100.00                       | 0.00               | 0.00                 | 100.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 200.00                       | 0.00               | 0.00                 | 200.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 300.00                       | 0.00               | 0.00                 | 300.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 400.00                       | 0.00               | 0.00                 | 400.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 460.00                       | 0.00               | 0.00                 | 460.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Salado</b>                |                    |                      |                             |                |                |                               |                               |                              |                             |
| 500.00                       | 0.00               | 0.00                 | 500.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 600.00                       | 0.00               | 0.00                 | 600.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 700.00                       | 0.00               | 0.00                 | 700.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 800.00                       | 0.00               | 0.00                 | 800.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 865.00                       | 0.00               | 0.00                 | 865.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>Castile</b>               |                    |                      |                             |                |                |                               |                               |                              |                             |
| 900.00                       | 0.00               | 0.00                 | 900.00                      | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| 1,000.00                     | 0.00               | 0.00                 | 1,000.00                    | 0.00           | 0.00           | 0.00                          | 0.00                          | 0.00                         | 0.00                        |
| <b>KOP - Build 2.0° / 10</b> |                    |                      |                             |                |                |                               |                               |                              |                             |
| 1,100.00                     | 2.00               | 260.00               | 1,099.98                    | -0.30          | -1.72          | -0.03                         | 2.00                          | 2.00                         | 0.00                        |
| 1,200.00                     | 4.00               | 260.00               | 1,199.84                    | -1.21          | -6.87          | -0.10                         | 2.00                          | 2.00                         | 0.00                        |
| 1,270.50                     | 5.41               | 260.00               | 1,270.10                    | -2.22          | -12.57         | -0.19                         | 2.00                          | 2.00                         | 0.00                        |
| <b>EOB - MLD</b>             |                    |                      |                             |                |                |                               |                               |                              |                             |
| 1,300.00                     | 5.41               | 260.00               | 1,299.47                    | -2.70          | -15.31         | -0.23                         | 0.00                          | 0.00                         | 0.00                        |
| 1,400.00                     | 5.41               | 260.00               | 1,399.02                    | -4.34          | -24.59         | -0.37                         | 0.00                          | 0.00                         | 0.00                        |
| 1,500.00                     | 5.41               | 260.00               | 1,498.58                    | -5.97          | -33.88         | -0.50                         | 0.00                          | 0.00                         | 0.00                        |
| 1,600.00                     | 5.41               | 260.00               | 1,598.13                    | -7.61          | -43.16         | -0.64                         | 0.00                          | 0.00                         | 0.00                        |
| 1,700.00                     | 5.41               | 260.00               | 1,697.69                    | -9.25          | -52.45         | -0.78                         | 0.00                          | 0.00                         | 0.00                        |
| 1,800.00                     | 5.41               | 260.00               | 1,797.24                    | -10.88         | -61.73         | -0.92                         | 0.00                          | 0.00                         | 0.00                        |
| 1,900.00                     | 5.41               | 260.00               | 1,896.79                    | -12.52         | -71.02         | -1.06                         | 0.00                          | 0.00                         | 0.00                        |
| 2,000.00                     | 5.41               | 260.00               | 1,996.35                    | -14.16         | -80.30         | -1.19                         | 0.00                          | 0.00                         | 0.00                        |
| 2,100.00                     | 5.41               | 260.00               | 2,095.90                    | -15.80         | -89.59         | -1.33                         | 0.00                          | 0.00                         | 0.00                        |
| 2,200.00                     | 5.41               | 260.00               | 2,195.46                    | -17.43         | -98.87         | -1.47                         | 0.00                          | 0.00                         | 0.00                        |
| 2,300.00                     | 5.41               | 260.00               | 2,295.01                    | -19.07         | -108.16        | -1.61                         | 0.00                          | 0.00                         | 0.00                        |
| 2,348.20                     | 5.41               | 260.00               | 2,343.00                    | -19.86         | -112.63        | -1.67                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Base of Sat</b>           |                    |                      |                             |                |                |                               |                               |                              |                             |
| 2,400.00                     | 5.41               | 260.00               | 2,394.57                    | -20.71         | -117.44        | -1.75                         | 0.00                          | 0.00                         | 0.00                        |
| 2,500.00                     | 5.41               | 260.00               | 2,494.12                    | -22.35         | -126.73        | -1.88                         | 0.00                          | 0.00                         | 0.00                        |
| 2,511.93                     | 5.41               | 260.00               | 2,506.00                    | -22.54         | -127.83        | -1.90                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Lamar</b>                 |                    |                      |                             |                |                |                               |                               |                              |                             |
| 2,538.05                     | 5.41               | 260.00               | 2,532.00                    | -22.97         | -130.26        | -1.94                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Bell Canyon</b>           |                    |                      |                             |                |                |                               |                               |                              |                             |
| 2,600.00                     | 5.41               | 260.00               | 2,593.68                    | -23.98         | -136.01        | -2.02                         | 0.00                          | 0.00                         | 0.00                        |
| 2,700.00                     | 5.41               | 260.00               | 2,693.23                    | -25.62         | -145.30        | -2.16                         | 0.00                          | 0.00                         | 0.00                        |
| 2,800.00                     | 5.41               | 260.00               | 2,792.79                    | -27.26         | -154.58        | -2.30                         | 0.00                          | 0.00                         | 0.00                        |
| 2,900.00                     | 5.41               | 260.00               | 2,892.34                    | -28.89         | -163.87        | -2.44                         | 0.00                          | 0.00                         | 0.00                        |
| 3,000.00                     | 5.41               | 260.00               | 2,991.89                    | -30.53         | -173.15        | -2.57                         | 0.00                          | 0.00                         | 0.00                        |
| 3,100.00                     | 5.41               | 260.00               | 3,091.45                    | -32.17         | -182.44        | -2.71                         | 0.00                          | 0.00                         | 0.00                        |
| 3,200.00                     | 5.41               | 260.00               | 3,191.00                    | -33.81         | -191.72        | -2.85                         | 0.00                          | 0.00                         | 0.00                        |
| 3,300.00                     | 5.41               | 260.00               | 3,290.56                    | -35.44         | -201.01        | -2.99                         | 0.00                          | 0.00                         | 0.00                        |
| 3,380.80                     | 5.41               | 260.00               | 3,371.00                    | -36.77         | -208.51        | -3.10                         | 0.00                          | 0.00                         | 0.00                        |
| <b>Cherry Canyon</b>         |                    |                      |                             |                |                |                               |                               |                              |                             |
| 3,400.00                     | 5.41               | 260.00               | 3,390.11                    | -37.08         | -210.29        | -3.13                         | 0.00                          | 0.00                         | 0.00                        |
| 3,500.00                     | 5.41               | 260.00               | 3,489.67                    | -38.72         | -219.58        | -3.26                         | 0.00                          | 0.00                         | 0.00                        |
| 3,600.00                     | 5.41               | 260.00               | 3,589.22                    | -40.35         | -228.86        | -3.40                         | 0.00                          | 0.00                         | 0.00                        |
| 3,700.00                     | 5.41               | 260.00               | 3,688.78                    | -41.99         | -238.15        | -3.54                         | 0.00                          | 0.00                         | 0.00                        |

# Planning Repot

Database: Midland District  
 Company: Marathon Oil Permian, LLC  
 Project: Eddy County, NM (NAD27)  
 Site: Mariner Fee  
 Well: 23-28-20 WKY #11H  
 Wellbore: OH  
 Design: Plan #1

Local Coordinate Reference: Well 23-28-20 WKY #11H  
 TYD Reference: KB = 28' @B103.00usft (Paterson 244)  
 MD Reference: KB = 28' @B103.00usft (Paterson 244)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft)       | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------|-----------------|-------------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| 3,800.00                    | 5.41            | 260.00            | 3,788.33              | -43.63      | -247.43     | -3.68                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.00                    | 5.41            | 260.00            | 3,887.89              | -45.27      | -256.72     | -3.82                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.00                    | 5.41            | 260.00            | 3,987.44              | -46.90      | -266.00     | -3.95                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.00                    | 5.41            | 260.00            | 4,086.99              | -48.54      | -275.29     | -4.09                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.00                    | 5.41            | 260.00            | 4,186.55              | -50.18      | -284.57     | -4.23                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.00                    | 5.41            | 260.00            | 4,286.10              | -51.81      | -293.86     | -4.37                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.00                    | 5.41            | 260.00            | 4,385.66              | -53.45      | -303.14     | -4.51                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.00                    | 5.41            | 260.00            | 4,485.21              | -55.09      | -312.43     | -4.64                   | 0.00                    | 0.00                   | 0.00                  |
| 4,518.87                    | 5.41            | 260.00            | 4,504.00              | -55.40      | -314.18     | -4.67                   | 0.00                    | 0.00                   | 0.00                  |
| <b>Brushy Canyon</b>        |                 |                   |                       |             |             |                         |                         |                        |                       |
| 4,600.00                    | 5.41            | 260.00            | 4,584.77              | -56.73      | -321.71     | -4.78                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.00                    | 5.41            | 260.00            | 4,684.32              | -58.36      | -331.00     | -4.92                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.00                    | 5.41            | 260.00            | 4,783.88              | -60.00      | -340.28     | -5.06                   | 0.00                    | 0.00                   | 0.00                  |
| 4,900.00                    | 5.41            | 260.00            | 4,883.43              | -61.64      | -349.57     | -5.20                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.00                    | 5.41            | 260.00            | 4,982.99              | -63.27      | -358.85     | -5.33                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.00                    | 5.41            | 260.00            | 5,082.54              | -64.91      | -368.14     | -5.47                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.00                    | 5.41            | 260.00            | 5,182.09              | -66.55      | -377.42     | -5.61                   | 0.00                    | 0.00                   | 0.00                  |
| 5,300.00                    | 5.41            | 260.00            | 5,281.65              | -68.19      | -386.71     | -5.75                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.00                    | 5.41            | 260.00            | 5,381.20              | -69.82      | -395.99     | -5.89                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.00                    | 5.41            | 260.00            | 5,480.76              | -71.46      | -405.28     | -6.02                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.00                    | 5.41            | 260.00            | 5,580.31              | -73.10      | -414.56     | -6.16                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.00                    | 5.41            | 260.00            | 5,679.87              | -74.74      | -423.85     | -6.30                   | 0.00                    | 0.00                   | 0.00                  |
| 5,800.00                    | 5.41            | 260.00            | 5,779.42              | -76.37      | -433.13     | -6.44                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.00                    | 5.41            | 260.00            | 5,878.98              | -78.01      | -442.42     | -6.58                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.00                    | 5.41            | 260.00            | 5,978.53              | -79.65      | -451.70     | -6.71                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.00                    | 5.41            | 260.00            | 6,078.09              | -81.28      | -460.98     | -6.85                   | 0.00                    | 0.00                   | 0.00                  |
| 6,105.94                    | 5.41            | 260.00            | 6,084.00              | -81.38      | -461.54     | -6.86                   | 0.00                    | 0.00                   | 0.00                  |
| <b>Bone Spring</b>          |                 |                   |                       |             |             |                         |                         |                        |                       |
| 6,200.00                    | 5.41            | 260.00            | 6,177.64              | -82.92      | -470.27     | -6.99                   | 0.00                    | 0.00                   | 0.00                  |
| 6,270.50                    | 5.41            | 260.00            | 6,247.83              | -84.08      | -476.82     | -7.09                   | 0.00                    | 0.00                   | 0.00                  |
| 6,300.00                    | 5.41            | 260.00            | 6,277.19              | -84.56      | -479.55     | -7.13                   | 0.00                    | 0.00                   | 0.00                  |
| 6,400.00                    | 5.41            | 260.00            | 6,376.75              | -86.20      | -488.84     | -7.27                   | 0.00                    | 0.00                   | 0.00                  |
| 6,500.00                    | 5.41            | 260.00            | 6,476.30              | -87.83      | -498.12     | -7.40                   | 0.00                    | 0.00                   | 0.00                  |
| 6,600.00                    | 5.41            | 260.00            | 6,575.86              | -89.47      | -507.41     | -7.54                   | 0.00                    | 0.00                   | 0.00                  |
| 6,700.00                    | 5.41            | 260.00            | 6,675.41              | -91.11      | -516.69     | -7.68                   | 0.00                    | 0.00                   | 0.00                  |
| 6,800.00                    | 5.41            | 260.00            | 6,774.97              | -92.74      | -525.98     | -7.82                   | 0.00                    | 0.00                   | 0.00                  |
| 6,900.00                    | 5.41            | 260.00            | 6,874.52              | -94.38      | -535.26     | -7.96                   | 0.00                    | 0.00                   | 0.00                  |
| 6,991.89                    | 5.41            | 260.00            | 6,966.00              | -95.89      | -543.80     | -8.08                   | 0.00                    | 0.00                   | 0.00                  |
| <b>1st Bone Spring Sand</b> |                 |                   |                       |             |             |                         |                         |                        |                       |
| 7,000.00                    | 5.41            | 260.00            | 6,974.08              | -96.02      | -544.55     | -8.09                   | 0.00                    | 0.00                   | 0.00                  |
| 7,100.00                    | 5.41            | 260.00            | 7,073.63              | -97.66      | -553.83     | -8.23                   | 0.00                    | 0.00                   | 0.00                  |
| 7,200.00                    | 5.41            | 260.00            | 7,173.19              | -99.29      | -563.12     | -8.37                   | 0.00                    | 0.00                   | 0.00                  |
| 7,300.00                    | 5.41            | 260.00            | 7,272.74              | -100.93     | -572.40     | -8.51                   | 0.00                    | 0.00                   | 0.00                  |
| 7,400.00                    | 5.41            | 260.00            | 7,372.29              | -102.57     | -581.69     | -8.65                   | 0.00                    | 0.00                   | 0.00                  |
| 7,500.00                    | 5.41            | 260.00            | 7,471.85              | -104.20     | -590.97     | -8.78                   | 0.00                    | 0.00                   | 0.00                  |
| 7,600.00                    | 5.41            | 260.00            | 7,571.40              | -105.84     | -600.26     | -8.92                   | 0.00                    | 0.00                   | 0.00                  |
| 7,700.00                    | 5.41            | 260.00            | 7,670.96              | -107.48     | -609.54     | -9.06                   | 0.00                    | 0.00                   | 0.00                  |
| 7,800.00                    | 5.41            | 260.00            | 7,770.51              | -109.12     | -618.83     | -9.20                   | 0.00                    | 0.00                   | 0.00                  |
| 7,804.51                    | 5.41            | 260.00            | 7,775.00              | -109.19     | -619.25     | -9.20                   | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Sand</b> |                 |                   |                       |             |             |                         |                         |                        |                       |
| 7,900.00                    | 5.41            | 260.00            | 7,870.07              | -110.75     | -628.11     | -9.34                   | 0.00                    | 0.00                   | 0.00                  |
| 8,000.00                    | 5.41            | 260.00            | 7,969.62              | -112.39     | -637.40     | -9.47                   | 0.00                    | 0.00                   | 0.00                  |
| 8,100.00                    | 5.41            | 260.00            | 8,069.18              | -114.03     | -646.68     | -9.61                   | 0.00                    | 0.00                   | 0.00                  |
| 8,200.00                    | 5.41            | 260.00            | 8,168.73              | -115.67     | -655.97     | -9.75                   | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

Database: Midland District  
 Company: Marathon Oil Permian, LLC  
 Project: Eddy County, NM (NAD27)  
 Site: Mariner Fee  
 Well: 23-28-20 WKY #11H  
 Wellbore: OH  
 Design: Plan #1

Local Coordinate Reference: Well 23-28-20 WKY #11H  
 TVD Reference: KB = 28' @103.00usft (Paterson 244)  
 MD Reference: KB = 28' @103.00usft (Paterson 244)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

## Planned Survey

| Measured Depth (usft)             | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|-----------------------------------|-----------------|-------------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| 8,300.00                          | 5.41            | 260.00            | 8,268.29              | -117.30      | -665.25      | -9.89                   | 0.00                    | 0.00                   | 0.00                  |
| 8,400.00                          | 5.41            | 260.00            | 8,367.84              | -118.94      | -674.54      | -10.03                  | 0.00                    | 0.00                   | 0.00                  |
| 8,500.00                          | 5.41            | 260.00            | 8,467.39              | -120.58      | -683.82      | -10.16                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.00                          | 5.41            | 260.00            | 8,566.95              | -122.21      | -693.11      | -10.30                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.00                          | 5.41            | 260.00            | 8,666.50              | -123.85      | -702.39      | -10.44                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.00                          | 5.41            | 260.00            | 8,766.06              | -125.49      | -711.68      | -10.58                  | 0.00                    | 0.00                   | 0.00                  |
| 8,856.38                          | 5.41            | 260.00            | 8,822.19              | -126.41      | -716.91      | -10.66                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Curve KOP - Bld 10.0° / 60</b> |                 |                   |                       |              |              |                         |                         |                        |                       |
| 8,900.00                          | 6.33            | 302.79            | 8,865.60              | -125.47      | -720.96      | -9.08                   | 10.00                   | 2.11                   | 98.11                 |
| 8,950.00                          | 9.96            | 327.91            | 8,915.10              | -120.31      | -725.58      | -3.25                   | 10.00                   | 7.25                   | 50.23                 |
| 9,000.00                          | 14.43           | 338.74            | 8,963.97              | -110.83      | -730.14      | 6.83                    | 10.00                   | 8.93                   | 21.66                 |
| 9,013.50                          | 15.69           | 340.60            | 8,977.00              | -107.55      | -731.35      | 10.27                   | 10.00                   | 9.34                   | 13.79                 |
| <b>3rd Bone Spring Sand</b>       |                 |                   |                       |              |              |                         |                         |                        |                       |
| 9,050.00                          | 19.15           | 344.42            | 9,011.82              | -97.12       | -734.60      | 21.08                   | 10.00                   | 9.50                   | 10.47                 |
| 9,100.00                          | 23.99           | 347.90            | 9,058.31              | -79.27       | -738.94      | 39.39                   | 10.00                   | 9.67                   | 6.96                  |
| 9,150.00                          | 28.88           | 350.26            | 9,103.07              | -57.42       | -743.12      | 61.63                   | 10.00                   | 9.78                   | 4.72                  |
| 9,200.00                          | 33.80           | 351.99            | 9,145.76              | -31.73       | -747.10      | 87.62                   | 10.00                   | 9.84                   | 3.45                  |
| 9,250.00                          | 38.74           | 353.32            | 9,186.07              | -2.40        | -750.86      | 117.18                  | 10.00                   | 9.88                   | 2.66                  |
| 9,300.00                          | 43.69           | 354.39            | 9,223.67              | 30.34        | -754.37      | 150.06                  | 10.00                   | 9.90                   | 2.15                  |
| 9,350.00                          | 48.64           | 355.29            | 9,258.29              | 66.25        | -757.61      | 186.03                  | 10.00                   | 9.92                   | 1.79                  |
| 9,400.00                          | 53.61           | 356.05            | 9,289.66              | 105.05       | -760.53      | 224.80                  | 10.00                   | 9.93                   | 1.53                  |
| 9,445.16                          | 58.10           | 356.67            | 9,315.00              | 142.34       | -762.90      | 261.99                  | 10.00                   | 9.94                   | 1.36                  |
| <b>Wolfcamp</b>                   |                 |                   |                       |              |              |                         |                         |                        |                       |
| 9,450.00                          | 58.58           | 356.73            | 9,317.54              | 146.46       | -763.14      | 266.09                  | 10.00                   | 9.94                   | 1.28                  |
| <b>FTP(MF#11H)</b>                |                 |                   |                       |              |              |                         |                         |                        |                       |
| 9,500.00                          | 63.55           | 357.34            | 9,341.73              | 190.14       | -765.40      | 309.58                  | 10.00                   | 9.94                   | 1.21                  |
| 9,550.00                          | 68.52           | 357.89            | 9,362.03              | 235.78       | -767.30      | 354.93                  | 10.00                   | 9.95                   | 1.11                  |
| 9,600.00                          | 73.50           | 358.41            | 9,378.29              | 283.02       | -768.82      | 401.81                  | 10.00                   | 9.95                   | 1.04                  |
| 9,650.00                          | 78.48           | 358.91            | 9,390.40              | 331.50       | -769.95      | 449.86                  | 10.00                   | 9.95                   | 0.99                  |
| 9,700.00                          | 83.45           | 359.38            | 9,398.25              | 380.86       | -770.69      | 498.70                  | 10.00                   | 9.96                   | 0.95                  |
| 9,750.00                          | 88.43           | 359.85            | 9,401.78              | 430.72       | -771.02      | 547.98                  | 10.00                   | 9.96                   | 0.93                  |
| 9,765.75                          | 90.00           | 359.99            | 9,402.00              | 446.46       | -771.04      | 563.53                  | 10.00                   | 9.96                   | 0.93                  |
| <b>EOC - MLD</b>                  |                 |                   |                       |              |              |                         |                         |                        |                       |
| 9,800.00                          | 90.00           | 359.99            | 9,402.00              | 480.71       | -771.05      | 597.34                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.00                          | 90.00           | 359.99            | 9,402.00              | 580.71       | -771.06      | 696.07                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.00                         | 90.00           | 359.99            | 9,402.00              | 680.71       | -771.06      | 794.79                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.00                         | 90.00           | 359.99            | 9,402.00              | 780.71       | -771.07      | 893.52                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.00                         | 90.00           | 359.99            | 9,402.00              | 880.71       | -771.08      | 992.25                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.00                         | 90.00           | 359.99            | 9,402.00              | 980.71       | -771.09      | 1,090.97                | 0.00                    | 0.00                   | 0.00                  |
| 10,400.00                         | 90.00           | 359.99            | 9,402.00              | 1,080.71     | -771.10      | 1,189.70                | 0.00                    | 0.00                   | 0.00                  |
| 10,500.00                         | 90.00           | 359.99            | 9,402.00              | 1,180.71     | -771.11      | 1,288.42                | 0.00                    | 0.00                   | 0.00                  |
| 10,600.00                         | 90.00           | 359.99            | 9,402.00              | 1,280.71     | -771.12      | 1,387.15                | 0.00                    | 0.00                   | 0.00                  |
| 10,700.00                         | 90.00           | 359.99            | 9,402.00              | 1,380.71     | -771.13      | 1,485.88                | 0.00                    | 0.00                   | 0.00                  |
| 10,800.00                         | 90.00           | 359.99            | 9,402.00              | 1,480.71     | -771.14      | 1,584.60                | 0.00                    | 0.00                   | 0.00                  |
| 10,900.00                         | 90.00           | 359.99            | 9,402.00              | 1,580.71     | -771.15      | 1,683.33                | 0.00                    | 0.00                   | 0.00                  |
| 11,000.00                         | 90.00           | 359.99            | 9,402.00              | 1,680.71     | -771.15      | 1,782.05                | 0.00                    | 0.00                   | 0.00                  |
| 11,100.00                         | 90.00           | 359.99            | 9,402.00              | 1,780.71     | -771.16      | 1,880.78                | 0.00                    | 0.00                   | 0.00                  |
| 11,200.00                         | 90.00           | 359.99            | 9,402.00              | 1,880.71     | -771.17      | 1,979.50                | 0.00                    | 0.00                   | 0.00                  |
| 11,300.00                         | 90.00           | 359.99            | 9,402.00              | 1,980.71     | -771.18      | 2,078.23                | 0.00                    | 0.00                   | 0.00                  |
| 11,400.00                         | 90.00           | 359.99            | 9,402.00              | 2,080.71     | -771.19      | 2,176.96                | 0.00                    | 0.00                   | 0.00                  |
| 11,500.00                         | 90.00           | 359.99            | 9,402.00              | 2,180.71     | -771.20      | 2,275.68                | 0.00                    | 0.00                   | 0.00                  |
| 11,600.00                         | 90.00           | 359.99            | 9,402.00              | 2,280.71     | -771.21      | 2,374.41                | 0.00                    | 0.00                   | 0.00                  |
| 11,700.00                         | 90.00           | 359.99            | 9,402.00              | 2,380.71     | -771.22      | 2,473.13                | 0.00                    | 0.00                   | 0.00                  |

# Planning Report

|           |                           |                             |                                     |
|-----------|---------------------------|-----------------------------|-------------------------------------|
| Database: | Midland District          | Local Coordinate Reference: | Well 23-28-20 WXY #11H              |
| Company:  | Marathon Oil Permian, LLC | TVD Reference:              | KB = 28' @103.00usft (Paterson 244) |
| Project:  | Eddy County, NM (NAD27)   | MD Reference:               | KB = 28' @103.00usft (Paterson 244) |
| Site:     | Mariner Fee               | North Reference:            | Grid                                |
| Well:     | 23-28-20 WKY #11H         | Survey Calculation Method:  | Minimum Curvature                   |
| Wellbore: | OH                        |                             |                                     |
| Design:   | Plan #1                   |                             |                                     |

| Planned Survey             |                 |                   |                       |             |             |                         |                         |                        |                       |
|----------------------------|-----------------|-------------------|-----------------------|-------------|-------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft)      | Inclination (°) | Azimuth (bearing) | Vertical Depth (usft) | +N-S (usft) | +E-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 11,800.00                  | 90.00           | 359.99            | 9,402.00              | 2,480.71    | -771.23     | 2,571.86                | 0.00                    | 0.00                   | 0.00                  |
| 11,900.00                  | 90.00           | 359.99            | 9,402.00              | 2,580.71    | -771.24     | 2,670.59                | 0.00                    | 0.00                   | 0.00                  |
| 12,000.00                  | 90.00           | 359.99            | 9,402.00              | 2,680.71    | -771.25     | 2,769.31                | 0.00                    | 0.00                   | 0.00                  |
| 12,100.00                  | 90.00           | 359.99            | 9,402.00              | 2,780.71    | -771.25     | 2,868.04                | 0.00                    | 0.00                   | 0.00                  |
| 12,200.00                  | 90.00           | 359.99            | 9,402.00              | 2,880.71    | -771.26     | 2,966.76                | 0.00                    | 0.00                   | 0.00                  |
| 12,300.00                  | 90.00           | 359.99            | 9,402.00              | 2,980.71    | -771.27     | 3,065.49                | 0.00                    | 0.00                   | 0.00                  |
| 12,400.00                  | 90.00           | 359.99            | 9,402.00              | 3,080.71    | -771.28     | 3,164.21                | 0.00                    | 0.00                   | 0.00                  |
| 12,500.00                  | 90.00           | 359.99            | 9,402.00              | 3,180.71    | -771.29     | 3,262.94                | 0.00                    | 0.00                   | 0.00                  |
| 12,600.00                  | 90.00           | 359.99            | 9,402.00              | 3,280.71    | -771.30     | 3,361.67                | 0.00                    | 0.00                   | 0.00                  |
| 12,700.00                  | 90.00           | 359.99            | 9,402.00              | 3,380.71    | -771.31     | 3,460.39                | 0.00                    | 0.00                   | 0.00                  |
| 12,800.00                  | 90.00           | 359.99            | 9,402.00              | 3,480.71    | -771.32     | 3,559.12                | 0.00                    | 0.00                   | 0.00                  |
| 12,900.00                  | 90.00           | 359.99            | 9,402.00              | 3,580.71    | -771.33     | 3,657.84                | 0.00                    | 0.00                   | 0.00                  |
| 13,000.00                  | 90.00           | 359.99            | 9,402.00              | 3,680.71    | -771.34     | 3,756.57                | 0.00                    | 0.00                   | 0.00                  |
| 13,100.00                  | 90.00           | 359.99            | 9,402.00              | 3,780.71    | -771.35     | 3,855.30                | 0.00                    | 0.00                   | 0.00                  |
| 13,200.00                  | 90.00           | 359.99            | 9,402.00              | 3,880.71    | -771.35     | 3,954.02                | 0.00                    | 0.00                   | 0.00                  |
| 13,300.00                  | 90.00           | 359.99            | 9,402.00              | 3,980.71    | -771.36     | 4,052.75                | 0.00                    | 0.00                   | 0.00                  |
| 13,400.00                  | 90.00           | 359.99            | 9,402.00              | 4,080.71    | -771.37     | 4,151.47                | 0.00                    | 0.00                   | 0.00                  |
| 13,500.00                  | 90.00           | 359.99            | 9,402.00              | 4,180.71    | -771.38     | 4,250.20                | 0.00                    | 0.00                   | 0.00                  |
| 13,600.00                  | 90.00           | 359.99            | 9,402.00              | 4,280.71    | -771.39     | 4,348.92                | 0.00                    | 0.00                   | 0.00                  |
| 13,700.00                  | 90.00           | 359.99            | 9,402.00              | 4,380.71    | -771.40     | 4,447.65                | 0.00                    | 0.00                   | 0.00                  |
| 13,800.00                  | 90.00           | 359.99            | 9,402.00              | 4,480.71    | -771.41     | 4,546.38                | 0.00                    | 0.00                   | 0.00                  |
| 13,900.00                  | 90.00           | 359.99            | 9,402.00              | 4,580.71    | -771.42     | 4,645.10                | 0.00                    | 0.00                   | 0.00                  |
| 14,000.00                  | 90.00           | 359.99            | 9,402.00              | 4,680.71    | -771.43     | 4,743.83                | 0.00                    | 0.00                   | 0.00                  |
| 14,102.41                  | 90.00           | 359.99            | 9,402.00              | 4,783.12    | -771.44     | 4,844.93                | 0.00                    | 0.00                   | 0.00                  |
| TD at 4102.41 -BHL[MF#11H] |                 |                   |                       |             |             |                         |                         |                        |                       |

| Design Targets                                                                                |               |                    |            |             |             |                 |                |                  |                  |
|-----------------------------------------------------------------------------------------------|---------------|--------------------|------------|-------------|-------------|-----------------|----------------|------------------|------------------|
| Target Name                                                                                   | Dip Angle (°) | Dip Dir. (bearing) | TVD (usft) | +N-S (usft) | +E-W (usft) | Northing (usft) | Easting (usft) | Latitude         | Longitude        |
| FTP[MF#11H]                                                                                   | 0.00          | 0.00               | 9,402.00   | 94.92       | -761.90     | 467,140.00      | 567,220.44     | 32° 17' 2.750 N  | 104° 6' 56.939 W |
| - plan misses target center by 98.95usft at 9450.00usft MD (9317.54 TVD, 146.46 N, -763.14 E) |               |                    |            |             |             |                 |                |                  |                  |
| - Point                                                                                       |               |                    |            |             |             |                 |                |                  |                  |
| BHL[MF#11H]                                                                                   | 0.00          | 0.00               | 9,402.00   | 4,783.12    | -771.44     | 471,827.80      | 567,210.90     | 32° 17' 49.142 N | 104° 6' 56.939 W |
| - plan hits target center                                                                     |               |                    |            |             |             |                 |                |                  |                  |
| - Point                                                                                       |               |                    |            |             |             |                 |                |                  |                  |

# Planning Report

**Database:** Midland District  
**Company:** Marathon Oil Permian, LLC  
**Project:** Eddy County, NM (NAD27)  
**Site:** Mariner Fee  
**Well:** 23-28-20 WKY #11H  
**Wellbore:** OH  
**Design:** Plan #1

**Local Coordinate Reference:** Well 23-28-20 WXY #11H  
**TVD Reference:** KB = 28' @103.00usft (Paterson 244)  
**MD Reference:** KB = 28' @103.00usft (Paterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

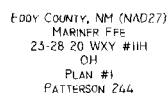
## Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name                 | Lithology | Dip (°) | Dip Direction (bearing) |
|-----------------------|-----------------------|----------------------|-----------|---------|-------------------------|
| 460.00                | 460.00                | Salado               |           |         |                         |
| 865.00                | 865.00                | Castile              |           |         |                         |
| 2,348.20              | 2,343.00              | Base of Salt         |           |         |                         |
| 2,511.93              | 2,506.00              | Lamar                |           |         |                         |
| 2,538.05              | 2,532.00              | Bell Canyon          |           |         |                         |
| 3,380.80              | 3,371.00              | Cherry Canyon        |           |         |                         |
| 4,518.87              | 4,504.00              | Brushy Canyon        |           |         |                         |
| 6,105.94              | 6,084.00              | Bone Spring          |           |         |                         |
| 6,991.89              | 6,966.00              | 1st Bone Spring Sand |           |         |                         |
| 7,804.51              | 7,775.00              | 2nd Bone Spring Sand |           |         |                         |
| 9,013.50              | 8,977.00              | 3rd Bone Spring Sand |           |         |                         |
| 9,445.16              | 9,315.00              | Wolfcamp             |           |         |                         |

## Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |             | Comment                      |
|-----------------------|-----------------------|-------------------|-------------|------------------------------|
|                       |                       | +N-S (usft)       | +E-W (usft) |                              |
| 1,000.00              | 1,000.00              | 0.00              | 0.00        | KOP -Build 20° / 100         |
| 1,270.50              | 1,270.10              | -2.22             | -12.57      | EOB -HOLD                    |
| 8,856.38              | 8,822.18              | -84.08            | -476.82     | Curve KCP - Build 10.0° /100 |
| 9,765.75              | 9,402.00              | -126.41           | -716.91     | EOC -HOLD                    |
| 14,102.41             | 9,402.00              | 446.46            | -771.04     | TD at 14102.41               |

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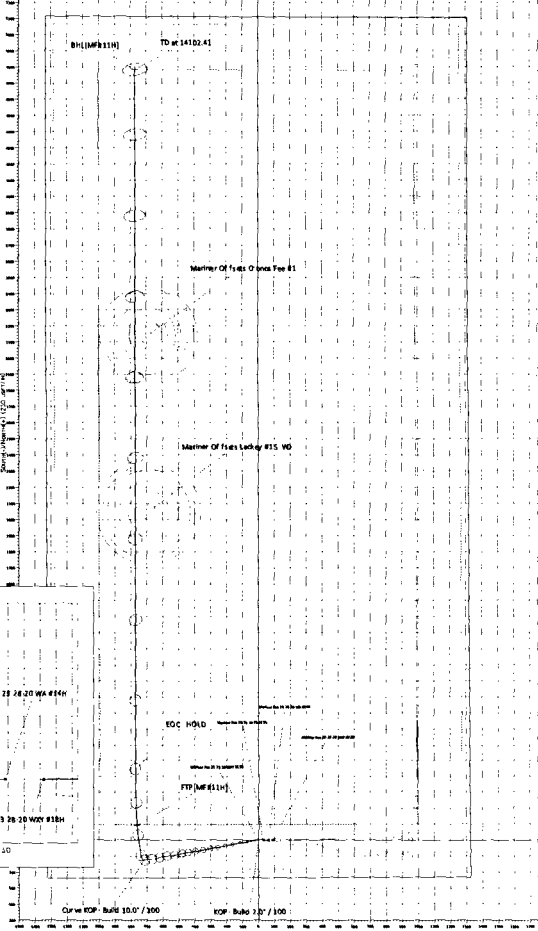
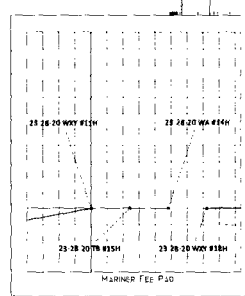
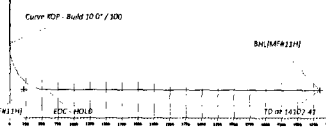
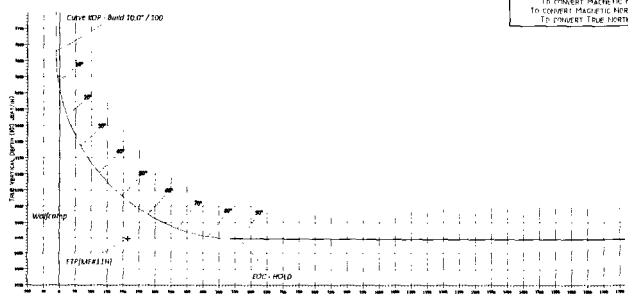
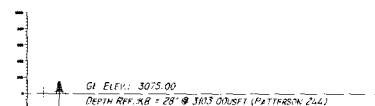
[illegible]

|                                                                                   |                                                                                                                                                                                          |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SITE DETAILS: MARNER FEE<br>SITE CENTRE NORTHING: 147065.39<br>EASTING: 151982.27 | PROJECT DETAILS: FRODO COUNTY, NM (NAD27)<br>GEODETIC SYSTEM: US STATE PLANE 1427 (EALY SOLUTION)<br>DATUM: NAD 1927 DATUM (CONS)<br>ELLIPSOID: CLARK 1866<br>ZONE: NEW MEXICO EAST 3001 |
| POSITIONAL UNCERTAINTY: 0.00<br>CONFIDENCE: 1.0<br>LOCAL ANOM: 0.00               | SYSTEM DATUM: MEAN SEA LEVEL                                                                                                                                                             |

[illegible]

Azimuths to Grid North  
True North:  $-0.12^\circ$   
Magnetic North:  $7.20^\circ$

Magnetic Field  
Strength: 48073.6 nT



**NM OIL CONSERVATION**  
ARTESIA DISTRICT

NOV 17 2017

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## **Marathon Oil Permian, LLC**

Eddy County, NM (NAD27)

Mariner Fee

23-28-20 WXY #11H

OH

Plan #1

## **Anticollision Report**

10 November, 2017



**Scientific Drilling**

[www.scientificdrilling.com](http://www.scientificdrilling.com)

# Anticollision Report

|                     |                           |                              |                                        |
|---------------------|---------------------------|------------------------------|----------------------------------------|
| Company:            | Marathon Oil Permian, LLC | Local Co-ordinate Reference: | Well 23-28-20 WXY #11H                 |
| Project:            | Eddy County, NM (NAD27)   | TVD Reference:               | KB = 28' @ 3103.00usft (Patterson 244) |
| Reference Site:     | Mariner Fee               | MD Reference:                | KB = 28' @ 3103.00usft (Patterson 244) |
| Site Error:         | 0.00 usft                 | North Reference:             | Grid                                   |
| Reference Well:     | 23-28-20 WXY #11H         | Survey Calculation Method:   | Minimum Curvature                      |
| Well Error:         | 0.00 usft                 | Output errors are at:        | 2.00 sigma                             |
| Reference Wellbore: | OH                        | Database:                    | Midland District                       |
| Reference Design:   | Plan #1                   | Offset TVD Reference:        | Offset Datum                           |

| Reference                    | Plan #1                                                             |                |                     |
|------------------------------|---------------------------------------------------------------------|----------------|---------------------|
| Filter type:                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |                |                     |
| Interpolation Method:        | MD Interval 100.00usft                                              | Error Model:   | Systematic Ellipse  |
| Depth Range:                 | Unlimited                                                           | Scan Method:   | Closest Approach 3D |
| Results Limited by:          | Maximum center-center distance of 2,099.49 usft                     | Error Surface: | Elliptical Conic    |
| Warning Levels Evaluated at: | 2.00 Sigma                                                          | Casing Method: | Not applied         |

|                     |           |                   |           |                 |
|---------------------|-----------|-------------------|-----------|-----------------|
| Survey Tool Program |           | Date 11/10/2017   |           |                 |
| From (usft)         | To (usft) | Survey (Wellbore) | Tool Name | Description     |
| 0.00                | 14,102.41 | Plan #1 (OH)      | MWD+HDGM  | OWSG MWD + HDGM |

| 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  |                                 |                              |                                 |                                  |                   |                     |
| Carter Farms A Fee Com 3H        |                                 |                              |                                 |                                  |                   |                     |
| Carter #1 - Wellbore #1 - Actual | 14,102.76                       | 9,353.18                     | 1,629.39                        | 1,269.22                         | 4.524             | CC, ES, SF          |
| Mariner Fee                      |                                 |                              |                                 |                                  |                   |                     |
| 23-28-20 TB #15H - OH - Plan #1  | 1,000.00                        | 1,000.00                     | 30.00                           | 23.29                            | 4.471             | CC, ES              |
| 23-28-20 TB #15H - OH - Plan #1  | 1,100.00                        | 1,099.98                     | 31.72                           | 24.31                            | 4.278             | SF                  |
| 23-28-20 WA #14H - OH - Plan #1  | 1,000.00                        | 1,000.00                     | 60.00                           | 53.29                            | 8.941             | CC, ES              |
| 23-28-20 WA #14H - OH - Plan #1  | 1,200.00                        | 1,199.84                     | 66.88                           | 58.78                            | 8.250             | SF                  |
| 23-28-20 WXY #18H - OH - Plan #1 | 1,000.00                        | 1,000.00                     | 90.01                           | 83.30                            | 13.413            | CC, ES              |
| 23-28-20 WXY #18H - OH - Plan #1 | 14,102.76                       | 14,122.82                    | 1,751.17                        | 1,596.23                         | 11.302            | SF                  |
| Mariner Offsets                  |                                 |                              |                                 |                                  |                   |                     |
| Cronos Fee #1 - OH - As-Drilled  | 12,462.11                       | 9,374.27                     | 86.50                           | -204.46                          | 0.297             | Level 1, CC, ES, SF |
| Lackey #1 SWD - OH - As-Drilled  | 11,368.49                       | 9,375.72                     | 83.89                           | -216.42                          | 0.279             | Level 1, CC, ES, SF |

| Offset Design                                                |                       |                       |                       |                  |               |                       |                              |                              |                        |                         |                           |                   |            |
|--------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------------|------------------------------|------------------------|-------------------------|---------------------------|-------------------|------------|
| Carter Farms A Fee Com 3H - Carter #1 - Wellbore #1 - Actual |                       |                       |                       |                  |               |                       |                              |                              |                        |                         |                           |                   |            |
| Survey Program:                                              | MD                    | Offset                | Beam Meter Angle      | Reference        | Offset        | Highside Toolface (°) | Offset Wellbore Depth (usft) | Offset Wellbore Depth (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning    |
| Measured Depth (usft)                                        | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) |                       |                              |                              |                        |                         |                           |                   |            |
| 13,500.00                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 70.34            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 2,062.21               | 1,709.85                | 352.36                    | 5.853             |            |
| 13,600.00                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 71.62            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 1,984.28               | 1,630.64                | 353.64                    | 5.611             |            |
| 13,700.00                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 72.90            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 1,908.40               | 1,553.48                | 354.93                    | 5.377             |            |
| 13,800.00                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 74.19            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 1,834.84               | 1,478.62                | 356.22                    | 5.151             |            |
| 13,900.00                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 75.48            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 1,763.89               | 1,406.36                | 357.52                    | 4.934             |            |
| 14,000.00                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 76.78            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 1,695.86               | 1,337.03                | 358.83                    | 4.726             |            |
| 14,100.00                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 78.09            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 1,631.13               | 1,270.99                | 360.14                    | 4.529             |            |
| 14,102.76                                                    | 9,402.00              | 9,353.18              | 9,352.00              | 78.15            | 282.42        | 90.00                 | 5,807.61                     | 495.87                       | 1,629.39               | 1,269.22                | 360.18                    | 4.524             | CC, ES, SF |

# Anticollision Report

|                            |                           |                                     |                                        |
|----------------------------|---------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>            | Marathon Oil Permian, LLC | <b>Local Co-ordinate Reference:</b> | Well 23-28-20 WXY #11H                 |
| <b>Project:</b>            | Eddy County, NM (NAD27)   | <b>TVD Reference:</b>               | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Reference Site:</b>     | Mariner Fee               | <b>MD Reference:</b>                | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>     | 23-28-20 WXY #11H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at:</b>        | 2.00 sigma                             |
| <b>Reference Wellbore:</b> | OH                        | <b>Database:</b>                    | Midland District                       |
| <b>Reference Design:</b>   | Plan #1                   | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design: Mariner Fee - 23-28-20 TB #15H - OH - Plan #1 |                       |                       |                       |                  |               |                        |                              |                   |                        |                         |                           |                   |         | Offset Site Error: | 0.00 usft |
|--------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|------------------------|------------------------------|-------------------|------------------------|-------------------------|---------------------------|-------------------|---------|--------------------|-----------|
| Survey Parameters: 0-MWD-MD-M                                |                       |                       |                       |                  |               |                        |                              |                   |                        |                         |                           |                   |         | Offset Well Error: | 0.00 usft |
| Measured Depth (usft)                                        | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Height Difference (ft) | Offset Wellbore Depth (usft) | Offset TVD (usft) | Between Centers (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |                    |           |
| 0.00                                                         | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 90.00                  | 0.00                         | 30.00             | 30.00                  |                         |                           |                   |         |                    |           |
| 100.00                                                       | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 29.74                   | 0.26                      | 116.244           |         |                    |           |
| 200.00                                                       | 200.00                | 200.00                | 200.00                | 0.49             | 0.49          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 29.03                   | 0.98                      | 30.771            |         |                    |           |
| 300.00                                                       | 300.00                | 300.00                | 300.00                | 0.85             | 0.85          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 28.31                   | 1.69                      | 17.732            |         |                    |           |
| 400.00                                                       | 400.00                | 400.00                | 400.00                | 1.20             | 1.20          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 27.59                   | 2.41                      | 12.455            |         |                    |           |
| 500.00                                                       | 500.00                | 500.00                | 500.00                | 1.56             | 1.56          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 26.88                   | 3.13                      | 9.598             |         |                    |           |
| 600.00                                                       | 600.00                | 600.00                | 600.00                | 1.92             | 1.92          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 26.16                   | 3.84                      | 7.807             |         |                    |           |
| 700.00                                                       | 700.00                | 700.00                | 700.00                | 2.28             | 2.28          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 25.44                   | 4.56                      | 6.580             |         |                    |           |
| 800.00                                                       | 800.00                | 800.00                | 800.00                | 2.64             | 2.64          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 24.73                   | 5.28                      | 5.686             |         |                    |           |
| 900.00                                                       | 900.00                | 900.00                | 900.00                | 3.00             | 3.00          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 24.01                   | 5.99                      | 5.006             |         |                    |           |
| 1,000.00                                                     | 1,000.00              | 1,000.00              | 1,000.00              | 3.36             | 3.36          | 90.00                  | 0.00                         | 30.00             | 30.00                  | 23.29                   | 6.71                      | 4.471             | CC, ES  |                    |           |
| 1,100.00                                                     | 1,099.98              | 1,099.98              | 1,099.98              | 3.70             | 3.71          | -170.54                | 0.00                         | 30.00             | 31.72                  | 24.31                   | 7.42                      | 4.278             | SF      |                    |           |
| 1,200.00                                                     | 1,199.84              | 1,199.84              | 1,199.84              | 4.05             | 4.07          | -171.86                | 0.00                         | 30.00             | 36.89                  | 28.79                   | 8.11                      | 4.551             |         |                    |           |
| 1,300.00                                                     | 1,299.47              | 1,299.47              | 1,299.47              | 4.39             | 4.43          | -173.38                | 0.00                         | 30.00             | 45.39                  | 36.59                   | 8.80                      | 5.160             |         |                    |           |
| 1,400.00                                                     | 1,399.02              | 1,399.02              | 1,399.02              | 4.75             | 4.79          | -174.52                | 0.00                         | 30.00             | 54.77                  | 45.27                   | 9.50                      | 5.767             |         |                    |           |
| 1,500.00                                                     | 1,498.58              | 1,498.58              | 1,498.58              | 5.11             | 5.14          | -175.32                | 0.00                         | 30.00             | 64.16                  | 53.96                   | 10.20                     | 6.291             |         |                    |           |
| 1,600.00                                                     | 1,598.13              | 1,598.13              | 1,598.13              | 5.47             | 5.50          | -175.92                | 0.00                         | 30.00             | 73.56                  | 62.65                   | 10.90                     | 6.746             |         |                    |           |
| 1,700.00                                                     | 1,697.69              | 1,697.69              | 1,697.69              | 5.83             | 5.86          | -176.38                | 0.00                         | 30.00             | 82.97                  | 71.35                   | 11.61                     | 7.145             |         |                    |           |
| 1,800.00                                                     | 1,797.24              | 1,797.24              | 1,797.24              | 6.20             | 6.21          | -176.75                | 0.00                         | 30.00             | 92.38                  | 80.06                   | 12.32                     | 7.498             |         |                    |           |
| 1,900.00                                                     | 1,896.79              | 1,896.79              | 1,896.79              | 6.56             | 6.57          | -177.05                | 0.00                         | 30.00             | 101.79                 | 88.76                   | 13.03                     | 7.812             |         |                    |           |
| 2,000.00                                                     | 1,996.35              | 1,996.35              | 1,996.35              | 6.93             | 6.93          | -177.30                | 0.00                         | 30.00             | 111.21                 | 97.47                   | 13.74                     | 8.093             |         |                    |           |
| 2,100.00                                                     | 2,095.90              | 2,095.90              | 2,095.90              | 7.31             | 7.28          | -177.51                | 0.00                         | 30.00             | 120.63                 | 106.17                  | 14.45                     | 8.346             |         |                    |           |
| 2,200.00                                                     | 2,195.46              | 2,195.46              | 2,195.46              | 7.68             | 7.64          | -177.69                | 0.00                         | 30.00             | 130.05                 | 114.88                  | 15.17                     | 8.575             |         |                    |           |
| 2,300.00                                                     | 2,295.01              | 2,295.01              | 2,295.01              | 8.05             | 8.00          | -177.85                | 0.00                         | 30.00             | 139.47                 | 123.59                  | 15.88                     | 8.783             |         |                    |           |
| 2,400.00                                                     | 2,394.57              | 2,394.57              | 2,394.57              | 8.42             | 8.35          | -177.99                | 0.00                         | 30.00             | 148.89                 | 132.30                  | 16.59                     | 8.973             |         |                    |           |
| 2,500.00                                                     | 2,494.12              | 2,494.12              | 2,494.12              | 8.80             | 8.71          | -178.11                | 0.00                         | 30.00             | 158.31                 | 141.01                  | 17.31                     | 9.147             |         |                    |           |
| 2,600.00                                                     | 2,593.68              | 2,593.68              | 2,593.68              | 9.17             | 9.07          | -178.21                | 0.00                         | 30.00             | 167.74                 | 149.71                  | 18.02                     | 9.307             |         |                    |           |
| 2,700.00                                                     | 2,693.23              | 2,693.23              | 2,693.23              | 9.55             | 9.43          | -178.31                | 0.00                         | 30.00             | 177.16                 | 158.42                  | 18.74                     | 9.455             |         |                    |           |
| 2,800.00                                                     | 2,792.79              | 2,792.79              | 2,792.79              | 9.92             | 9.78          | -178.39                | 0.00                         | 30.00             | 186.59                 | 167.13                  | 19.45                     | 9.592             |         |                    |           |
| 2,900.00                                                     | 2,892.34              | 2,892.34              | 2,892.34              | 10.30            | 10.14         | -178.47                | 0.00                         | 30.00             | 196.01                 | 175.84                  | 20.17                     | 9.718             |         |                    |           |
| 3,000.00                                                     | 2,991.89              | 2,991.89              | 2,991.89              | 10.68            | 10.50         | -178.54                | 0.00                         | 30.00             | 205.43                 | 184.55                  | 20.89                     | 9.836             |         |                    |           |
| 3,100.00                                                     | 3,091.45              | 3,091.45              | 3,091.45              | 11.06            | 10.85         | -178.60                | 0.00                         | 30.00             | 214.86                 | 193.26                  | 21.60                     | 9.946             |         |                    |           |
| 3,200.00                                                     | 3,191.00              | 3,191.00              | 3,191.00              | 11.43            | 11.21         | -178.66                | 0.00                         | 30.00             | 224.29                 | 201.97                  | 22.32                     | 10.049            |         |                    |           |
| 3,300.00                                                     | 3,290.56              | 3,290.56              | 3,290.56              | 11.81            | 11.57         | -178.72                | 0.00                         | 30.00             | 233.71                 | 210.68                  | 23.04                     | 10.146            |         |                    |           |
| 3,400.00                                                     | 3,390.11              | 3,390.11              | 3,390.11              | 12.19            | 11.92         | -178.77                | 0.00                         | 30.00             | 243.14                 | 219.38                  | 23.75                     | 10.236            |         |                    |           |
| 3,500.00                                                     | 3,489.67              | 3,488.72              | 3,488.72              | 12.57            | 12.28         | -178.81                | 0.00                         | 30.02             | 252.59                 | 228.12                  | 24.47                     | 10.324            |         |                    |           |
| 3,600.00                                                     | 3,589.22              | 3,580.23              | 3,580.21              | 12.95            | 12.59         | -178.73                | -0.29                        | 31.82             | 263.90                 | 238.76                  | 25.14                     | 10.498            |         |                    |           |
| 3,700.00                                                     | 3,688.78              | 3,671.01              | 3,670.86              | 13.33            | 12.89         | -178.47                | -1.02                        | 36.46             | 278.22                 | 252.41                  | 25.80                     | 10.782            |         |                    |           |
| 3,800.00                                                     | 3,788.33              | 3,760.89              | 3,760.42              | 13.70            | 13.20         | -178.07                | -2.19                        | 43.83             | 295.52                 | 269.05                  | 26.47                     | 11.164            |         |                    |           |
| 3,900.00                                                     | 3,887.89              | 3,849.70              | 3,848.65              | 14.08            | 13.51         | -177.57                | -3.78                        | 53.85             | 315.77                 | 288.64                  | 27.13                     | 11.639            |         |                    |           |
| 4,000.00                                                     | 3,987.44              | 3,937.31              | 3,935.34              | 14.46            | 13.81         | -177.00                | -5.76                        | 66.37             | 338.94                 | 311.15                  | 27.79                     | 12.198            |         |                    |           |
| 4,100.00                                                     | 4,086.99              | 4,029.23              | 4,025.91              | 14.84            | 14.14         | -176.37                | -8.21                        | 81.86             | 364.57                 | 336.11                  | 28.46                     | 12.811            |         |                    |           |
| 4,200.00                                                     | 4,186.55              | 4,125.72              | 4,120.94              | 15.22            | 14.48         | -175.78                | -10.83                       | 98.41             | 390.55                 | 361.41                  | 29.14                     | 13.402            |         |                    |           |
| 4,300.00                                                     | 4,286.10              | 4,222.22              | 4,215.96              | 15.60            | 14.83         | -175.26                | -13.46                       | 114.96            | 416.56                 | 386.73                  | 29.83                     | 13.966            |         |                    |           |
| 4,400.00                                                     | 4,385.66              | 4,318.71              | 4,310.99              | 15.98            | 15.18         | -174.81                | -16.08                       | 131.51            | 442.60                 | 412.08                  | 30.51                     | 14.505            |         |                    |           |
| 4,500.00                                                     | 4,485.21              | 4,415.20              | 4,406.02              | 16.36            | 15.54         | -174.40                | -18.70                       | 148.06            | 468.66                 | 437.46                  | 31.20                     | 15.020            |         |                    |           |
| 4,600.00                                                     | 4,584.77              | 4,511.70              | 4,501.05              | 16.74            | 15.90         | -174.04                | -21.32                       | 164.61            | 494.74                 | 462.85                  | 31.89                     | 15.512            |         |                    |           |
| 4,700.00                                                     | 4,684.32              | 4,608.19              | 4,596.08              | 17.12            | 16.26         | -173.72                | -23.94                       | 181.16            | 520.84                 | 488.26                  | 32.59                     | 15.984            |         |                    |           |
| 4,800.00                                                     | 4,783.88              | 4,704.69              | 4,691.10              | 17.50            | 16.62         | -173.42                | -26.56                       | 197.71            | 546.95                 | 513.67                  | 33.28                     | 16.436            |         |                    |           |
| 4,900.00                                                     | 4,883.43              | 4,801.18              | 4,786.13              | 17.88            | 16.99         | -173.15                | -29.18                       | 214.26            | 573.08                 | 539.10                  | 33.97                     | 16.869            |         |                    |           |
| 5,000.00                                                     | 4,982.99              | 4,897.67              | 4,881.16              | 18.26            | 17.36         | -172.91                | -31.80                       | 230.81            | 599.21                 | 564.54                  | 34.67                     | 17.284            |         |                    |           |
| 5,100.00                                                     | 5,082.54              | 4,994.17              | 4,976.19              | 18.64            | 17.73         | -172.68                | -34.43                       | 247.36            | 625.36                 | 589.99                  | 35.36                     | 17.683            |         |                    |           |

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

# Anticollision Report

|                            |                           |                                     |                                        |
|----------------------------|---------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>            | Marathon Oil Permian, LLC | <b>Local Co-ordinate Reference:</b> | Well 23-28-20 WXY #11H                 |
| <b>Project:</b>            | Eddy County, NM (NAD27)   | <b>TVD Reference:</b>               | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Reference Site:</b>     | Mariner Fee               | <b>MD Reference:</b>                | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>     | 23-28-20 WXY #11H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore:</b> | OH                        | <b>Database:</b>                    | Midland District                       |
| <b>Reference Design:</b>   | Plan #1                   | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Mariner Fee - 23-28-20 TB #15H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                               |                               |                |                |                 |                 |                   | Offset Site Error: | 0.00 usft |
|-----------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------|-------------------------------|----------------|----------------|-----------------|-----------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD-HQGM                    |                       |                       |                       |                  |               |                       |                               |                               |                |                |                 |                 |                   | Offset Well Error: | 0.00 usft |
| Reference                                     |                       | Offset                |                       | Borehole Axis    |               |                       | Wellbore                      |                               | Between        |                | Between         |                 | Minimum           |                    | Warning   |
| Measured Depth (usft)                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Footwall (°) | Offset Wellbore Centre (usft) | Offset Wellbore Centre (usft) | Centres (usft) | Centres (usft) | Ellipses (usft) | Ellipses (usft) | Separation (usft) | Separation Factor  |           |
| 5,200.00                                      | 5,182.09              | 5,090.66              | 5,071.22              | 19.02            | 18.10         | -172.48               | -37.05                        | 263.91                        | 651.51         | 615.45         | 36.06           | 18.066          |                   |                    |           |
| 5,300.00                                      | 5,281.65              | 5,187.16              | 5,166.25              | 19.41            | 18.48         | -172.29               | -39.67                        | 280.46                        | 677.67         | 640.91         | 36.76           | 18.434          |                   |                    |           |
| 5,400.00                                      | 5,381.20              | 5,283.65              | 5,261.27              | 19.79            | 18.86         | -172.11               | -42.29                        | 297.01                        | 703.84         | 666.38         | 37.46           | 18.789          |                   |                    |           |
| 5,500.00                                      | 5,480.76              | 5,380.15              | 5,356.30              | 20.17            | 19.24         | -171.95               | -44.91                        | 313.56                        | 730.01         | 691.85         | 38.16           | 19.130          |                   |                    |           |
| 5,600.00                                      | 5,580.31              | 5,478.64              | 5,451.33              | 20.55            | 19.62         | -171.80               | -47.53                        | 330.11                        | 756.19         | 717.33         | 38.86           | 19.458          |                   |                    |           |
| 5,700.00                                      | 5,679.87              | 5,573.13              | 5,546.36              | 20.93            | 20.00         | -171.65               | -50.15                        | 346.66                        | 782.37         | 742.81         | 39.56           | 19.775          |                   |                    |           |
| 5,800.00                                      | 5,779.42              | 5,669.63              | 5,641.39              | 21.31            | 20.39         | -171.52               | -52.77                        | 363.21                        | 808.56         | 768.29         | 40.27           | 20.080          |                   |                    |           |
| 5,900.00                                      | 5,878.98              | 5,766.12              | 5,736.41              | 21.69            | 20.77         | -171.40               | -55.40                        | 379.76                        | 834.75         | 793.78         | 40.97           | 20.374          |                   |                    |           |
| 6,000.00                                      | 5,978.53              | 5,862.62              | 5,831.44              | 22.07            | 21.16         | -171.28               | -58.02                        | 396.31                        | 860.94         | 819.26         | 41.67           | 20.659          |                   |                    |           |
| 6,100.00                                      | 6,078.09              | 5,959.11              | 5,926.47              | 22.45            | 21.55         | -171.17               | -60.64                        | 412.86                        | 887.14         | 844.76         | 42.38           | 20.933          |                   |                    |           |
| 6,200.00                                      | 6,177.64              | 6,055.60              | 6,021.50              | 22.83            | 21.94         | -171.07               | -63.26                        | 429.41                        | 913.34         | 870.25         | 43.09           | 21.198          |                   |                    |           |
| 6,300.00                                      | 6,277.19              | 6,152.10              | 6,116.53              | 23.22            | 22.33         | -170.97               | -65.88                        | 445.96                        | 939.54         | 895.75         | 43.79           | 21.455          |                   |                    |           |
| 6,400.00                                      | 6,376.75              | 6,248.59              | 6,211.55              | 23.60            | 22.72         | -170.88               | -68.50                        | 462.50                        | 965.74         | 921.25         | 44.50           | 21.703          |                   |                    |           |
| 6,500.00                                      | 6,476.30              | 6,345.09              | 6,306.58              | 23.98            | 23.11         | -170.79               | -71.12                        | 479.05                        | 991.95         | 946.74         | 45.21           | 21.943          |                   |                    |           |
| 6,600.00                                      | 6,575.86              | 6,441.58              | 6,401.61              | 24.36            | 23.51         | -170.71               | -73.74                        | 495.60                        | 1,018.16       | 972.25         | 45.91           | 22.176          |                   |                    |           |
| 6,700.00                                      | 6,675.41              | 6,538.07              | 6,496.64              | 24.74            | 23.90         | -170.63               | -76.37                        | 512.15                        | 1,044.37       | 997.75         | 46.62           | 22.401          |                   |                    |           |
| 6,800.00                                      | 6,774.97              | 6,634.57              | 6,591.67              | 25.12            | 24.30         | -170.55               | -78.99                        | 528.70                        | 1,070.58       | 1,023.25       | 47.33           | 22.620          |                   |                    |           |
| 6,900.00                                      | 6,874.52              | 6,731.06              | 6,686.70              | 25.50            | 24.69         | -170.48               | -81.61                        | 545.25                        | 1,096.80       | 1,048.76       | 48.04           | 22.831          |                   |                    |           |
| 7,000.00                                      | 6,974.08              | 6,827.56              | 6,781.72              | 25.88            | 25.09         | -170.41               | -84.23                        | 561.80                        | 1,123.01       | 1,074.26       | 48.75           | 23.037          |                   |                    |           |
| 7,100.00                                      | 7,073.63              | 6,924.05              | 6,876.75              | 26.27            | 25.49         | -170.35               | -86.85                        | 578.35                        | 1,149.23       | 1,099.77       | 49.46           | 23.236          |                   |                    |           |
| 7,200.00                                      | 7,173.19              | 7,020.55              | 6,971.78              | 26.65            | 25.89         | -170.28               | -89.47                        | 594.90                        | 1,175.45       | 1,125.28       | 50.17           | 23.430          |                   |                    |           |
| 7,300.00                                      | 7,272.74              | 7,117.04              | 7,066.81              | 27.03            | 26.29         | -170.23               | -92.09                        | 611.45                        | 1,201.67       | 1,150.79       | 50.88           | 23.617          |                   |                    |           |
| 7,400.00                                      | 7,372.29              | 7,213.53              | 7,161.84              | 27.41            | 26.69         | -170.17               | -94.71                        | 628.00                        | 1,227.89       | 1,176.30       | 51.59           | 23.800          |                   |                    |           |
| 7,500.00                                      | 7,471.85              | 7,310.03              | 7,256.86              | 27.79            | 27.09         | -170.11               | -97.34                        | 644.55                        | 1,254.11       | 1,201.81       | 52.30           | 23.978          |                   |                    |           |
| 7,600.00                                      | 7,571.40              | 7,406.52              | 7,351.89              | 28.17            | 27.49         | -170.06               | -99.96                        | 661.10                        | 1,280.33       | 1,227.32       | 53.02           | 24.150          |                   |                    |           |
| 7,700.00                                      | 7,670.96              | 7,503.02              | 7,446.92              | 28.55            | 27.89         | -170.01               | -102.58                       | 677.65                        | 1,306.56       | 1,252.83       | 53.73           | 24.318          |                   |                    |           |
| 7,800.00                                      | 7,770.51              | 7,599.51              | 7,541.95              | 28.94            | 28.29         | -169.96               | -105.20                       | 694.20                        | 1,332.78       | 1,278.34       | 54.44           | 24.481          |                   |                    |           |
| 7,900.00                                      | 7,870.07              | 7,696.00              | 7,636.98              | 29.32            | 28.70         | -169.92               | -107.82                       | 710.75                        | 1,359.01       | 1,303.85       | 55.15           | 24.640          |                   |                    |           |
| 8,000.00                                      | 7,969.62              | 7,792.50              | 7,732.00              | 29.70            | 29.10         | -169.87               | -110.44                       | 727.30                        | 1,385.23       | 1,329.37       | 55.87           | 24.795          |                   |                    |           |
| 8,100.00                                      | 8,069.18              | 7,888.99              | 7,827.03              | 30.08            | 29.51         | -169.83               | -113.06                       | 743.85                        | 1,411.46       | 1,354.88       | 56.58           | 24.946          |                   |                    |           |
| 8,200.00                                      | 8,168.73              | 7,985.49              | 7,922.06              | 30.46            | 29.91         | -169.79               | -115.68                       | 760.40                        | 1,437.69       | 1,380.39       | 57.30           | 25.092          |                   |                    |           |
| 8,300.00                                      | 8,268.29              | 8,081.98              | 8,017.09              | 30.84            | 30.32         | -169.75               | -118.30                       | 776.95                        | 1,463.92       | 1,405.91       | 58.01           | 25.236          |                   |                    |           |
| 8,400.00                                      | 8,367.84              | 8,178.47              | 8,112.12              | 31.23            | 30.72         | -169.71               | -120.93                       | 793.50                        | 1,490.15       | 1,431.42       | 58.72           | 25.375          |                   |                    |           |
| 8,500.00                                      | 8,467.39              | 8,274.97              | 8,207.15              | 31.61            | 31.13         | -169.67               | -123.55                       | 810.05                        | 1,516.38       | 1,456.94       | 59.44           | 25.511          |                   |                    |           |
| 8,600.00                                      | 8,566.95              | 8,371.46              | 8,302.17              | 31.99            | 31.53         | -169.64               | -126.17                       | 826.60                        | 1,542.61       | 1,482.45       | 60.16           | 25.644          |                   |                    |           |
| 8,700.00                                      | 8,666.50              | 8,467.96              | 8,397.20              | 32.37            | 31.94         | -169.60               | -128.79                       | 843.15                        | 1,568.84       | 1,507.97       | 60.87           | 25.773          |                   |                    |           |
| 8,800.00                                      | 8,766.06              | 8,564.45              | 8,492.23              | 32.75            | 32.35         | -169.57               | -131.41                       | 859.70                        | 1,595.07       | 1,533.48       | 61.59           | 25.899          |                   |                    |           |
| 8,900.00                                      | 8,865.60              | 8,660.89              | 8,587.20              | 33.13            | 32.75         | -169.53               | -134.03                       | 876.24                        | 1,621.31       | 1,559.00       | 62.31           | 26.021          |                   |                    |           |
| 9,000.00                                      | 8,965.17              | 8,755.79              | 8,680.66              | 33.48            | 33.15         | -169.49               | -136.61                       | 892.51                        | 1,647.40       | 1,584.33       | 63.07           | 26.121          |                   |                    |           |
| 9,100.00                                      | 9,064.73              | 8,853.75              | 8,777.10              | 33.80            | 33.56         | -169.44               | -139.19                       | 909.29                        | 1,673.00       | 1,609.15       | 63.84           | 26.206          |                   |                    |           |
| 9,200.00                                      | 9,164.29              | 8,951.71              | 8,874.45              | 34.12            | 33.98         | -169.39               | -141.77                       | 926.07                        | 1,698.59       | 1,634.71       | 64.59           | 26.277          |                   |                    |           |
| 9,300.00                                      | 9,263.85              | 9,049.67              | 8,971.19              | 34.44            | 34.40         | -169.34               | -144.35                       | 942.85                        | 1,724.18       | 1,660.30       | 65.34           | 26.343          |                   |                    |           |
| 9,400.00                                      | 9,363.41              | 9,147.63              | 9,068.75              | 34.76            | 34.82         | -169.29               | -146.93                       | 959.63                        | 1,749.77       | 1,685.89       | 66.09           | 26.409          |                   |                    |           |
| 9,500.00                                      | 9,462.97              | 9,245.59              | 9,166.31              | 35.08            | 35.24         | -169.24               | -149.51                       | 976.41                        | 1,775.36       | 1,711.48       | 66.84           | 26.475          |                   |                    |           |
| 9,600.00                                      | 9,562.53              | 9,343.55              | 9,263.87              | 35.40            | 35.66         | -169.19               | -152.09                       | 993.19                        | 1,800.95       | 1,737.07       | 67.59           | 26.541          |                   |                    |           |
| 9,700.00                                      | 9,662.09              | 9,441.51              | 9,361.43              | 35.72            | 36.08         | -169.14               | -154.67                       | 1,009.97                      | 1,826.54       | 1,762.66       | 68.34           | 26.607          |                   |                    |           |
| 9,800.00                                      | 9,761.65              | 9,539.47              | 9,459.49              | 36.04            | 36.50         | -169.09               | -157.25                       | 1,026.75                      | 1,852.13       | 1,788.25       | 69.09           | 26.673          |                   |                    |           |
| 9,900.00                                      | 9,861.21              | 9,637.43              | 9,557.51              | 36.36            | 36.92         | -169.04               | -159.83                       | 1,043.53                      | 1,877.72       | 1,813.84       | 69.84           | 26.739          |                   |                    |           |
| 10,000.00                                     | 9,960.77              | 9,735.39              | 9,655.57              | 36.68            | 37.34         | -168.99               | -162.41                       | 1,060.31                      | 1,903.31       | 1,839.43       | 70.59           | 26.805          |                   |                    |           |
| 10,100.00                                     | 10,060.33             | 9,833.35              | 9,753.63              | 37.00            | 37.76         | -168.94               | -164.99                       | 1,077.09                      | 1,928.90       | 1,865.02       | 71.34           | 26.871          |                   |                    |           |
| 10,200.00                                     | 10,159.89             | 9,931.31              | 9,851.69              | 37.32            | 38.18         | -168.89               | -167.57                       | 1,093.87                      | 1,954.49       | 1,890.61       | 72.09           | 26.937          |                   |                    |           |
| 10,300.00                                     | 10,259.45             | 10,029.27             | 9,949.75              | 37.64            | 38.60         | -168.84               | -170.15                       | 1,110.65                      | 1,980.08       | 1,916.20       | 72.84           | 27.003          |                   |                    |           |

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

# Anticollision Report

|                            |                           |                                     |                                        |
|----------------------------|---------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>            | Marathon Oil Permian, LLC | <b>Local Co-ordinate Reference:</b> | Well 23-28-20 WXY #11H                 |
| <b>Project:</b>            | Eddy County, NM (NAD27)   | <b>TVD Reference:</b>               | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Reference Site:</b>     | Mariner Fee               | <b>MD Reference:</b>                | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>     | 23-28-20 WXY #11H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at:</b>        | 2.00 sigma                             |
| <b>Reference Wellbore:</b> | OH                        | <b>Database:</b>                    | Midland District                       |
| <b>Reference Design:</b>   | Plan #1                   | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design: Mariner Fee - 23-28-20 TB #15H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                               |                               |                        |                         |                           |                   |         | Offset Site Error: | 0.00 usft |
|--------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------|-------------------------------|------------------------|-------------------------|---------------------------|-------------------|---------|--------------------|-----------|
| Survey Program: A-MWD-HO24                                   |                       |                       |                       |                  |               |                       |                               |                               |                        |                         |                           |                   |         | Offset Well Error: | 0.00 usft |
| Measured Depth (usft)                                        | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre (usft) | Offset Wellbore Centre (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |                    |           |
| 10,400.00                                                    | 9,402.00              | 10,355.59             | 9,292.08              | 37.97            | 37.96         | 86.44                 | 1,087.79                      | 994.02                        | 1,768.55               | 1,694.50                | 74.05                     | 23.883            |         |                    |           |
| 10,500.00                                                    | 9,402.00              | 10,455.59             | 9,292.08              | 38.62            | 38.57         | 86.44                 | 1,187.79                      | 993.62                        | 1,768.16               | 1,692.81                | 75.35                     | 23.467            |         |                    |           |
| 10,600.00                                                    | 9,402.00              | 10,555.59             | 9,292.08              | 39.31            | 39.23         | 86.44                 | 1,287.79                      | 993.21                        | 1,767.77               | 1,691.03                | 76.74                     | 23.037            |         |                    |           |
| 10,700.00                                                    | 9,402.00              | 10,655.59             | 9,292.08              | 40.04            | 39.93         | 86.43                 | 1,387.78                      | 992.81                        | 1,767.38               | 1,689.17                | 78.21                     | 22.599            |         |                    |           |
| 10,800.00                                                    | 9,402.00              | 10,755.58             | 9,292.08              | 40.81            | 40.68         | 86.43                 | 1,487.78                      | 992.41                        | 1,766.99               | 1,687.23                | 79.76                     | 22.155            |         |                    |           |
| 10,900.00                                                    | 9,402.00              | 10,855.58             | 9,292.08              | 41.62            | 41.46         | 86.43                 | 1,587.78                      | 992.01                        | 1,766.60               | 1,685.21                | 81.38                     | 21.707            |         |                    |           |
| 11,000.00                                                    | 9,402.00              | 10,955.58             | 9,292.08              | 42.46            | 42.28         | 86.43                 | 1,687.77                      | 991.61                        | 1,766.20               | 1,683.13                | 83.08                     | 21.259            |         |                    |           |
| 11,100.00                                                    | 9,402.00              | 11,055.58             | 9,292.08              | 43.34            | 43.14         | 86.43                 | 1,787.77                      | 991.21                        | 1,765.81               | 1,680.97                | 84.84                     | 20.813            |         |                    |           |
| 11,200.00                                                    | 9,402.00              | 11,155.58             | 9,292.08              | 44.24            | 44.03         | 86.43                 | 1,887.77                      | 990.81                        | 1,765.42               | 1,678.76                | 86.67                     | 20.371            |         |                    |           |
| 11,300.00                                                    | 9,402.00              | 11,255.57             | 9,292.07              | 45.17            | 44.95         | 86.43                 | 1,987.77                      | 990.41                        | 1,765.03               | 1,676.48                | 88.55                     | 19.933            |         |                    |           |
| 11,400.00                                                    | 9,402.00              | 11,355.57             | 9,292.07              | 46.13            | 45.90         | 86.43                 | 2,087.76                      | 990.01                        | 1,764.64               | 1,674.16                | 90.49                     | 19.502            |         |                    |           |
| 11,500.00                                                    | 9,402.00              | 11,455.57             | 9,292.07              | 47.12            | 46.88         | 86.43                 | 2,187.76                      | 989.61                        | 1,764.25               | 1,671.78                | 92.47                     | 19.078            |         |                    |           |
| 11,600.00                                                    | 9,402.00              | 11,555.57             | 9,292.07              | 48.13            | 47.88         | 86.43                 | 2,287.76                      | 989.21                        | 1,763.86               | 1,669.35                | 94.51                     | 18.663            |         |                    |           |
| 11,700.00                                                    | 9,402.00              | 11,655.57             | 9,292.07              | 49.16            | 48.90         | 86.43                 | 2,387.76                      | 988.81                        | 1,763.47               | 1,666.88                | 96.59                     | 18.257            |         |                    |           |
| 11,800.00                                                    | 9,402.00              | 11,755.56             | 9,292.07              | 50.21            | 49.95         | 86.43                 | 2,487.75                      | 988.41                        | 1,763.08               | 1,664.36                | 98.72                     | 17.860            |         |                    |           |
| 11,900.00                                                    | 9,402.00              | 11,855.56             | 9,292.06              | 51.28            | 51.02         | 86.42                 | 2,587.75                      | 988.01                        | 1,762.69               | 1,661.81                | 100.88                    | 17.473            |         |                    |           |
| 12,000.00                                                    | 9,402.00              | 11,955.56             | 9,292.06              | 52.37            | 52.10         | 86.42                 | 2,687.75                      | 987.61                        | 1,762.30               | 1,659.22                | 103.08                    | 17.096            |         |                    |           |
| 12,100.00                                                    | 9,402.00              | 12,055.56             | 9,292.06              | 53.48            | 53.20         | 86.42                 | 2,787.74                      | 987.21                        | 1,761.91               | 1,656.60                | 105.32                    | 16.730            |         |                    |           |
| 12,200.00                                                    | 9,402.00              | 12,155.56             | 9,292.06              | 54.61            | 54.32         | 86.42                 | 2,887.74                      | 986.81                        | 1,761.52               | 1,653.94                | 107.58                    | 16.374            |         |                    |           |
| 12,300.00                                                    | 9,402.00              | 12,255.55             | 9,292.06              | 55.75            | 55.46         | 86.42                 | 2,987.74                      | 986.41                        | 1,761.13               | 1,651.25                | 109.88                    | 16.028            |         |                    |           |
| 12,400.00                                                    | 9,402.00              | 12,355.55             | 9,292.05              | 56.90            | 56.61         | 86.42                 | 3,087.74                      | 986.01                        | 1,760.74               | 1,648.53                | 112.21                    | 15.692            |         |                    |           |
| 12,500.00                                                    | 9,402.00              | 12,455.55             | 9,292.05              | 58.07            | 57.78         | 86.42                 | 3,187.73                      | 985.61                        | 1,760.35               | 1,645.79                | 114.56                    | 15.366            |         |                    |           |
| 12,600.00                                                    | 9,402.00              | 12,555.55             | 9,292.05              | 59.25            | 58.96         | 86.42                 | 3,287.73                      | 985.21                        | 1,759.96               | 1,643.02                | 116.94                    | 15.050            |         |                    |           |
| 12,700.00                                                    | 9,402.00              | 12,655.55             | 9,292.05              | 60.44            | 60.15         | 86.42                 | 3,387.73                      | 984.81                        | 1,759.57               | 1,640.23                | 119.34                    | 14.744            |         |                    |           |
| 12,800.00                                                    | 9,402.00              | 12,755.54             | 9,292.04              | 61.64            | 61.35         | 86.42                 | 3,487.73                      | 984.41                        | 1,759.18               | 1,637.42                | 121.77                    | 14.447            |         |                    |           |
| 12,900.00                                                    | 9,402.00              | 12,855.54             | 9,292.04              | 62.86            | 62.56         | 86.42                 | 3,587.72                      | 984.01                        | 1,758.79               | 1,634.58                | 124.21                    | 14.160            |         |                    |           |
| 13,000.00                                                    | 9,402.00              | 12,955.54             | 9,292.04              | 64.08            | 63.78         | 86.41                 | 3,687.72                      | 983.61                        | 1,758.40               | 1,631.72                | 126.68                    | 13.881            |         |                    |           |
| 13,100.00                                                    | 9,402.00              | 13,055.54             | 9,292.03              | 65.32            | 65.02         | 86.41                 | 3,787.72                      | 983.21                        | 1,758.01               | 1,628.85                | 129.16                    | 13.611            |         |                    |           |
| 13,200.00                                                    | 9,402.00              | 13,155.54             | 9,292.03              | 66.56            | 66.26         | 86.41                 | 3,887.71                      | 982.81                        | 1,757.62               | 1,625.96                | 131.66                    | 13.349            |         |                    |           |
| 13,300.00                                                    | 9,402.00              | 13,255.53             | 9,292.03              | 67.81            | 67.51         | 86.41                 | 3,987.71                      | 982.41                        | 1,757.23               | 1,623.05                | 134.18                    | 13.096            |         |                    |           |
| 13,400.00                                                    | 9,402.00              | 13,355.53             | 9,292.03              | 69.07            | 68.77         | 86.41                 | 4,087.71                      | 982.01                        | 1,756.85               | 1,620.13                | 136.72                    | 12.850            |         |                    |           |
| 13,500.00                                                    | 9,402.00              | 13,455.53             | 9,292.02              | 70.34            | 70.04         | 86.41                 | 4,187.71                      | 981.61                        | 1,756.46               | 1,617.19                | 139.27                    | 12.612            |         |                    |           |
| 13,600.00                                                    | 9,402.00              | 13,555.53             | 9,292.02              | 71.62            | 71.31         | 86.41                 | 4,287.70                      | 981.22                        | 1,756.07               | 1,614.24                | 141.83                    | 12.382            |         |                    |           |
| 13,700.00                                                    | 9,402.00              | 13,655.53             | 9,292.01              | 72.90            | 72.60         | 86.41                 | 4,387.70                      | 980.82                        | 1,755.68               | 1,611.27                | 144.41                    | 12.158            |         |                    |           |
| 13,800.00                                                    | 9,402.00              | 13,755.53             | 9,292.01              | 74.19            | 73.88         | 86.41                 | 4,487.70                      | 980.42                        | 1,755.29               | 1,608.29                | 147.00                    | 11.941            |         |                    |           |
| 13,900.00                                                    | 9,402.00              | 13,855.52             | 9,292.01              | 75.48            | 75.18         | 86.41                 | 4,587.70                      | 980.02                        | 1,754.90               | 1,605.30                | 149.60                    | 11.731            |         |                    |           |
| 14,000.00                                                    | 9,402.00              | 13,955.52             | 9,292.00              | 76.78            | 76.48         | 86.41                 | 4,687.69                      | 979.62                        | 1,754.51               | 1,602.30                | 152.21                    | 11.527            |         |                    |           |
| 14,095.23                                                    | 9,402.00              | 14,045.25             | 9,292.00              | 78.02            | 77.69         | 86.40                 | 4,777.42                      | 979.26                        | 1,754.15               | 1,599.52                | 154.83                    | 11.344            |         |                    |           |
| 14,100.00                                                    | 9,402.00              | 14,045.25             | 9,292.00              | 78.09            | 77.69         | 86.40                 | 4,777.42                      | 979.26                        | 1,754.15               | 1,599.46                | 154.70                    | 11.339            |         |                    |           |
| 14,102.76                                                    | 9,402.00              | 14,045.25             | 9,292.00              | 78.15            | 77.69         | 86.40                 | 4,777.42                      | 979.26                        | 1,754.16               | 1,599.43                | 154.73                    | 11.337            |         |                    |           |

# Anticollision Report

Company: Marathon Oil Permian, LLC  
 Project: Eddy County, NM (NAD27)  
 Reference Site: Mariner Fee  
 Site Error: 0.00 usft  
 Reference Well: 23-28-20 WXY #11H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 23-28-20 WXY #11H  
 TVD Reference: KB = 28' @ 3103.00usft (Patterson 244)  
 MD Reference: KB = 28' @ 3103.00usft (Patterson 244)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: Midland District  
 Offset TVD Reference: Offset Datum

| Offset Design Mariner Fee - 23-28-20 WA #14H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                               |                         |                          |                           |                   |              |  | Offset Site Error: 0.00 usft |  |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------|-------------------------|--------------------------|---------------------------|-------------------|--------------|--|------------------------------|--|
| Survey Program: 0-MWDHDDGM                                  |                       |                       |                       |                  |               |                       |                               |                         |                          |                           |                   |              |  | Offset Well Error: 0.00 usft |  |
| Reference                                                   |                       | Offset                |                       | Beam Major Axis  |               |                       | Distance                      |                         |                          |                           |                   |              |  |                              |  |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Position (") | Offset Wellbore Centre (usft) | Reference Centre (usft) | Reference Ellipse (usft) | Minimum Separation (usft) | Separation Factor | Warning      |  |                              |  |
| 0.00                                                        | 0.00                  | 0.00                  | 0.00                  | 0.00             | 0.00          | 90.00                 | 0.00                          | 60.00                   | 60.00                    |                           |                   |              |  |                              |  |
| 100.00                                                      | 100.00                | 100.00                | 100.00                | 0.13             | 0.13          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 59.74                     | 0.26              | 232.468      |  |                              |  |
| 200.00                                                      | 200.00                | 200.00                | 200.00                | 0.49             | 0.49          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 59.02                     | 0.98              | 61.536       |  |                              |  |
| 300.00                                                      | 300.00                | 300.00                | 300.00                | 0.85             | 0.85          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 58.31                     | 1.69              | 35.461       |  |                              |  |
| 400.00                                                      | 400.00                | 400.00                | 400.00                | 1.20             | 1.20          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 57.59                     | 2.41              | 24.907       |  |                              |  |
| 500.00                                                      | 500.00                | 500.00                | 500.00                | 1.56             | 1.56          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 56.87                     | 3.13              | 19.195       |  |                              |  |
| 600.00                                                      | 600.00                | 600.00                | 600.00                | 1.92             | 1.92          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 56.16                     | 3.84              | 15.614       |  |                              |  |
| 700.00                                                      | 700.00                | 700.00                | 700.00                | 2.28             | 2.28          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 55.44                     | 4.56              | 13.159       |  |                              |  |
| 800.00                                                      | 800.00                | 800.00                | 800.00                | 2.64             | 2.64          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 54.72                     | 5.28              | 11.371       |  |                              |  |
| 900.00                                                      | 900.00                | 900.00                | 900.00                | 3.00             | 3.00          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 54.01                     | 5.99              | 10.011       |  |                              |  |
| 1,000.00                                                    | 1,000.00              | 1,000.00              | 1,000.00              | 3.36             | 3.36          | 90.00                 | 0.00                          | 60.00                   | 60.00                    | 53.29                     | 6.71              | 8.941 CC, ES |  |                              |  |
| 1,100.00                                                    | 1,099.98              | 1,099.98              | 1,099.98              | 3.70             | 3.71          | -170.28               | 0.00                          | 60.00                   | 61.72                    | 54.30                     | 7.42              | 8.323        |  |                              |  |
| 1,200.00                                                    | 1,199.84              | 1,199.84              | 1,199.84              | 4.05             | 4.07          | -171.02               | 0.00                          | 60.00                   | 66.88                    | 58.78                     | 8.11              | 8.250 SF     |  |                              |  |
| 1,300.00                                                    | 1,299.47              | 1,299.47              | 1,299.47              | 4.39             | 4.43          | -172.02               | 0.00                          | 60.00                   | 75.35                    | 66.56                     | 8.80              | 8.567        |  |                              |  |
| 1,400.00                                                    | 1,399.02              | 1,399.02              | 1,399.02              | 4.75             | 4.79          | -172.90               | 0.00                          | 60.00                   | 84.70                    | 75.21                     | 9.50              | 8.920        |  |                              |  |
| 1,500.00                                                    | 1,498.58              | 1,498.58              | 1,498.58              | 5.11             | 5.14          | -173.61               | 0.00                          | 60.00                   | 94.07                    | 83.87                     | 10.20             | 9.223        |  |                              |  |
| 1,600.00                                                    | 1,598.13              | 1,598.13              | 1,598.13              | 5.47             | 5.50          | -174.19               | 0.00                          | 60.00                   | 103.44                   | 92.54                     | 10.90             | 9.486        |  |                              |  |
| 1,700.00                                                    | 1,697.69              | 1,697.69              | 1,697.69              | 5.83             | 5.86          | -174.68               | 0.00                          | 60.00                   | 112.83                   | 101.21                    | 11.61             | 9.717        |  |                              |  |
| 1,800.00                                                    | 1,797.24              | 1,797.24              | 1,797.24              | 6.20             | 6.21          | -175.09               | 0.00                          | 60.00                   | 122.22                   | 109.90                    | 12.32             | 9.920        |  |                              |  |
| 1,900.00                                                    | 1,896.79              | 1,896.79              | 1,896.79              | 6.56             | 6.57          | -175.44               | 0.00                          | 60.00                   | 131.61                   | 118.58                    | 13.03             | 10.101       |  |                              |  |
| 2,000.00                                                    | 1,996.35              | 1,996.35              | 1,996.35              | 6.93             | 6.93          | -175.74               | 0.00                          | 60.00                   | 141.01                   | 127.27                    | 13.74             | 10.262       |  |                              |  |
| 2,100.00                                                    | 2,095.90              | 2,095.90              | 2,095.90              | 7.31             | 7.28          | -176.01               | 0.00                          | 60.00                   | 150.42                   | 135.96                    | 14.45             | 10.407       |  |                              |  |
| 2,200.00                                                    | 2,195.46              | 2,195.46              | 2,195.46              | 7.68             | 7.64          | -176.25               | 0.00                          | 60.00                   | 159.82                   | 144.66                    | 15.17             | 10.538       |  |                              |  |
| 2,300.00                                                    | 2,295.01              | 2,295.01              | 2,295.01              | 8.05             | 8.00          | -176.45               | 0.00                          | 60.00                   | 169.23                   | 153.35                    | 15.88             | 10.657       |  |                              |  |
| 2,400.00                                                    | 2,394.57              | 2,394.57              | 2,394.57              | 8.42             | 8.35          | -176.64               | 0.00                          | 60.00                   | 178.65                   | 162.05                    | 16.59             | 10.766       |  |                              |  |
| 2,500.00                                                    | 2,494.12              | 2,494.12              | 2,494.12              | 8.80             | 8.71          | -176.81               | 0.00                          | 60.00                   | 188.06                   | 170.75                    | 17.31             | 10.866       |  |                              |  |
| 2,600.00                                                    | 2,593.68              | 2,593.68              | 2,593.68              | 9.17             | 9.07          | -176.96               | 0.00                          | 60.00                   | 197.47                   | 179.45                    | 18.02             | 10.957       |  |                              |  |
| 2,700.00                                                    | 2,693.23              | 2,693.23              | 2,693.23              | 9.55             | 9.43          | -177.10               | 0.00                          | 60.00                   | 206.89                   | 188.15                    | 18.74             | 11.041       |  |                              |  |
| 2,800.00                                                    | 2,792.79              | 2,787.30              | 2,787.30              | 9.92             | 9.76          | -177.19               | 0.02                          | 60.92                   | 217.29                   | 197.87                    | 19.43             | 11.185       |  |                              |  |
| 2,900.00                                                    | 2,892.34              | 2,879.24              | 2,879.15              | 10.30            | 10.07         | -177.20               | 0.08                          | 64.73                   | 230.81                   | 210.70                    | 20.10             | 11.482       |  |                              |  |
| 3,000.00                                                    | 2,991.89              | 2,970.29              | 2,969.95              | 10.68            | 10.39         | -177.13               | 0.20                          | 71.41                   | 247.46                   | 226.69                    | 20.77             | 11.912       |  |                              |  |
| 3,100.00                                                    | 3,091.45              | 3,060.29              | 3,059.45              | 11.06            | 10.70         | -177.00               | 0.36                          | 80.84                   | 267.20                   | 245.76                    | 21.44             | 12.463       |  |                              |  |
| 3,200.00                                                    | 3,191.00              | 3,152.55              | 3,150.89              | 11.43            | 11.02         | -176.83               | 0.58                          | 93.17                   | 289.75                   | 267.64                    | 22.11             | 13.103       |  |                              |  |
| 3,300.00                                                    | 3,290.56              | 3,249.84              | 3,247.23              | 11.81            | 11.37         | -176.66               | 0.82                          | 106.71                  | 312.86                   | 290.06                    | 22.80             | 13.721       |  |                              |  |
| 3,400.00                                                    | 3,390.11              | 3,347.13              | 3,343.57              | 12.19            | 11.72         | -176.52               | 1.05                          | 120.25                  | 335.97                   | 312.48                    | 23.49             | 14.302       |  |                              |  |
| 3,500.00                                                    | 3,489.67              | 3,444.42              | 3,439.91              | 12.57            | 12.07         | -176.40               | 1.29                          | 133.79                  | 359.08                   | 334.90                    | 24.18             | 14.848       |  |                              |  |
| 3,600.00                                                    | 3,589.22              | 3,541.71              | 3,536.26              | 12.95            | 12.42         | -176.29               | 1.52                          | 147.32                  | 382.20                   | 357.32                    | 24.88             | 15.364       |  |                              |  |
| 3,700.00                                                    | 3,688.78              | 3,639.00              | 3,632.60              | 13.33            | 12.78         | -176.19               | 1.76                          | 160.86                  | 405.31                   | 379.74                    | 25.57             | 15.850       |  |                              |  |
| 3,800.00                                                    | 3,788.33              | 3,736.29              | 3,728.94              | 13.70            | 13.14         | -176.10               | 2.00                          | 174.40                  | 428.43                   | 402.16                    | 26.27             | 16.311       |  |                              |  |
| 3,900.00                                                    | 3,887.89              | 3,833.58              | 3,825.29              | 14.08            | 13.50         | -176.03               | 2.23                          | 187.94                  | 451.54                   | 424.58                    | 26.96             | 16.746       |  |                              |  |
| 4,000.00                                                    | 3,987.44              | 3,930.87              | 3,921.63              | 14.46            | 13.86         | -175.96               | 2.47                          | 201.48                  | 474.66                   | 447.00                    | 27.66             | 17.159       |  |                              |  |
| 4,100.00                                                    | 4,086.99              | 4,028.16              | 4,017.97              | 14.84            | 14.23         | -175.89               | 2.71                          | 215.01                  | 497.78                   | 469.42                    | 28.36             | 17.552       |  |                              |  |
| 4,200.00                                                    | 4,186.55              | 4,125.45              | 4,114.32              | 15.22            | 14.59         | -175.84               | 2.94                          | 228.55                  | 520.90                   | 491.84                    | 29.06             | 17.924       |  |                              |  |
| 4,300.00                                                    | 4,286.10              | 4,222.74              | 4,210.66              | 15.60            | 14.96         | -175.78               | 3.18                          | 242.09                  | 544.02                   | 514.25                    | 29.76             | 18.279       |  |                              |  |
| 4,400.00                                                    | 4,385.66              | 4,320.03              | 4,307.00              | 15.98            | 15.33         | -175.74               | 3.41                          | 255.63                  | 567.14                   | 536.67                    | 30.46             | 18.617       |  |                              |  |
| 4,500.00                                                    | 4,485.21              | 4,417.32              | 4,403.34              | 16.36            | 15.70         | -175.69               | 3.65                          | 269.17                  | 590.26                   | 559.09                    | 31.17             | 18.939       |  |                              |  |
| 4,600.00                                                    | 4,584.77              | 4,514.61              | 4,499.69              | 16.74            | 16.07         | -175.65               | 3.89                          | 282.70                  | 613.38                   | 581.51                    | 31.87             | 19.246       |  |                              |  |
| 4,700.00                                                    | 4,684.32              | 4,611.90              | 4,596.03              | 17.12            | 16.44         | -175.61               | 4.12                          | 296.24                  | 636.50                   | 603.92                    | 32.57             | 19.540       |  |                              |  |
| 4,800.00                                                    | 4,783.88              | 4,709.19              | 4,692.37              | 17.50            | 16.82         | -175.58               | 4.36                          | 309.78                  | 659.62                   | 626.34                    | 33.28             | 19.821       |  |                              |  |
| 4,900.00                                                    | 4,883.43              | 4,806.48              | 4,788.72              | 17.88            | 17.19         | -175.54               | 4.60                          | 323.32                  | 682.74                   | 648.75                    | 33.98             | 20.090       |  |                              |  |
| 5,000.00                                                    | 4,982.99              | 4,903.77              | 4,885.06              | 18.26            | 17.57         | -175.51               | 4.83                          | 336.86                  | 705.86                   | 671.17                    | 34.69             | 20.348       |  |                              |  |
| 5,100.00                                                    | 5,082.54              | 5,001.06              | 4,981.40              | 18.64            | 17.95         | -175.48               | 5.07                          | 350.39                  | 728.98                   | 693.58                    | 35.40             | 20.595       |  |                              |  |

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

# Anticollision Report

|                            |                           |                                     |                                        |
|----------------------------|---------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>            | Marathon Oil Permian, LLC | <b>Local Co-ordinate Reference:</b> | Well 23-28-20 WXY #11H                 |
| <b>Project:</b>            | Eddy County, NM (NAD27)   | <b>TVD Reference:</b>               | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Reference Site:</b>     | Mariner Fee               | <b>MD Reference:</b>                | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>     | 23-28-20 WXY #11H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore:</b> | OH                        | <b>Database:</b>                    | Midland District                       |
| <b>Reference Design:</b>   | Plan #1                   | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design Mariner Fee - 23-28-20 WA #14H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                               |                        |                         |                           |                   |         |  | Offset Site Error: | 0.00 usft |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------|------------------------|-------------------------|---------------------------|-------------------|---------|--|--------------------|-----------|
| Survey Program: 3-MWD-HDOG                                  |                       |                       |                       |                  |               |                       |                               |                        |                         |                           |                   |         |  | Offset Well Error: | 0.00 usft |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning |  |                    |           |
| 5,200.00                                                    | 5,182.09              | 5,098.35              | 5,077.74              | 19.02            | 18.33         | -175.46               | 5.31                          | 363.93                 | 752.10                  | 716.00                    | 36.10             | 20.832  |  |                    |           |
| 5,300.00                                                    | 5,281.65              | 5,195.64              | 5,174.09              | 19.41            | 18.70         | -175.43               | 5.54                          | 377.47                 | 775.22                  | 738.41                    | 36.81             | 21.060  |  |                    |           |
| 5,400.00                                                    | 5,381.20              | 5,292.93              | 5,270.43              | 19.79            | 19.08         | -175.41               | 5.78                          | 391.01                 | 798.34                  | 760.83                    | 37.52             | 21.279  |  |                    |           |
| 5,500.00                                                    | 5,480.76              | 5,390.22              | 5,366.77              | 20.17            | 19.46         | -175.38               | 6.01                          | 404.55                 | 821.47                  | 783.24                    | 38.23             | 21.490  |  |                    |           |
| 5,600.00                                                    | 5,580.31              | 5,487.51              | 5,463.12              | 20.55            | 19.84         | -175.36               | 6.25                          | 418.08                 | 844.59                  | 805.65                    | 38.93             | 21.692  |  |                    |           |
| 5,700.00                                                    | 5,679.87              | 5,584.80              | 5,559.46              | 20.93            | 20.23         | -175.34               | 6.49                          | 431.62                 | 867.71                  | 828.07                    | 39.64             | 21.887  |  |                    |           |
| 5,800.00                                                    | 5,779.42              | 5,682.09              | 5,655.80              | 21.31            | 20.61         | -175.32               | 6.72                          | 445.16                 | 890.83                  | 850.48                    | 40.35             | 22.076  |  |                    |           |
| 5,900.00                                                    | 5,878.98              | 5,779.38              | 5,752.14              | 21.69            | 20.99         | -175.30               | 6.96                          | 458.70                 | 913.95                  | 872.89                    | 41.06             | 22.257  |  |                    |           |
| 6,000.00                                                    | 5,978.53              | 5,876.67              | 5,848.49              | 22.07            | 21.37         | -175.29               | 7.20                          | 472.24                 | 937.08                  | 895.30                    | 41.77             | 22.432  |  |                    |           |
| 6,100.00                                                    | 6,078.09              | 5,973.96              | 5,944.83              | 22.45            | 21.76         | -175.27               | 7.43                          | 485.77                 | 960.20                  | 917.71                    | 42.48             | 22.601  |  |                    |           |
| 6,200.00                                                    | 6,177.64              | 6,071.25              | 6,041.17              | 22.83            | 22.14         | -175.25               | 7.67                          | 499.31                 | 983.32                  | 940.13                    | 43.20             | 22.765  |  |                    |           |
| 6,300.00                                                    | 6,277.19              | 6,168.54              | 6,137.52              | 23.22            | 22.52         | -175.24               | 7.90                          | 512.85                 | 1,006.44                | 962.54                    | 43.91             | 22.922  |  |                    |           |
| 6,400.00                                                    | 6,376.75              | 6,265.83              | 6,233.86              | 23.60            | 22.91         | -175.22               | 8.14                          | 526.39                 | 1,029.57                | 984.95                    | 44.62             | 23.075  |  |                    |           |
| 6,500.00                                                    | 6,476.30              | 6,363.12              | 6,330.20              | 23.98            | 23.29         | -175.21               | 8.38                          | 539.93                 | 1,052.69                | 1,007.36                  | 45.33             | 23.223  |  |                    |           |
| 6,600.00                                                    | 6,575.86              | 6,460.40              | 6,426.54              | 24.36            | 23.68         | -175.20               | 8.61                          | 553.46                 | 1,075.81                | 1,029.77                  | 46.04             | 23.366  |  |                    |           |
| 6,700.00                                                    | 6,675.41              | 6,557.69              | 6,522.89              | 24.74            | 24.07         | -175.18               | 8.85                          | 567.00                 | 1,098.93                | 1,052.18                  | 46.75             | 23.505  |  |                    |           |
| 6,800.00                                                    | 6,774.97              | 6,654.98              | 6,619.23              | 25.12            | 24.45         | -175.17               | 9.09                          | 580.54                 | 1,122.06                | 1,074.59                  | 47.47             | 23.639  |  |                    |           |
| 6,900.00                                                    | 6,874.52              | 6,752.27              | 6,715.57              | 25.50            | 24.84         | -175.16               | 9.32                          | 594.08                 | 1,145.18                | 1,097.00                  | 48.18             | 23.769  |  |                    |           |
| 7,000.00                                                    | 6,974.08              | 6,849.56              | 6,811.92              | 25.88            | 25.23         | -175.15               | 9.56                          | 607.62                 | 1,168.30                | 1,119.41                  | 48.89             | 23.895  |  |                    |           |
| 7,100.00                                                    | 7,073.63              | 6,946.85              | 6,908.26              | 26.27            | 25.61         | -175.14               | 9.79                          | 621.15                 | 1,191.43                | 1,141.82                  | 49.61             | 24.018  |  |                    |           |
| 7,200.00                                                    | 7,173.19              | 7,044.14              | 7,004.60              | 26.65            | 26.00         | -175.13               | 10.03                         | 634.69                 | 1,214.55                | 1,164.23                  | 50.32             | 24.137  |  |                    |           |
| 7,300.00                                                    | 7,272.74              | 7,141.43              | 7,100.94              | 27.03            | 26.39         | -175.12               | 10.27                         | 648.23                 | 1,237.67                | 1,186.64                  | 51.03             | 24.252  |  |                    |           |
| 7,400.00                                                    | 7,372.29              | 7,238.72              | 7,197.29              | 27.41            | 26.78         | -175.11               | 10.50                         | 661.77                 | 1,260.79                | 1,209.05                  | 51.75             | 24.365  |  |                    |           |
| 7,500.00                                                    | 7,471.85              | 7,336.01              | 7,293.63              | 27.79            | 27.17         | -175.10               | 10.74                         | 675.31                 | 1,283.92                | 1,231.46                  | 52.46             | 24.474  |  |                    |           |
| 7,600.00                                                    | 7,571.40              | 7,433.30              | 7,389.97              | 28.17            | 27.55         | -175.09               | 10.98                         | 688.85                 | 1,307.04                | 1,253.86                  | 53.18             | 24.580  |  |                    |           |
| 7,700.00                                                    | 7,670.96              | 7,530.59              | 7,486.32              | 28.55            | 27.94         | -175.08               | 11.21                         | 702.38                 | 1,330.16                | 1,276.27                  | 53.89             | 24.683  |  |                    |           |
| 7,800.00                                                    | 7,770.51              | 7,627.88              | 7,582.66              | 28.94            | 28.33         | -175.07               | 11.45                         | 715.92                 | 1,353.29                | 1,298.68                  | 54.60             | 24.783  |  |                    |           |
| 7,900.00                                                    | 7,870.07              | 7,725.17              | 7,679.00              | 29.32            | 28.72         | -175.07               | 11.69                         | 729.46                 | 1,376.41                | 1,321.09                  | 55.32             | 24.881  |  |                    |           |
| 8,000.00                                                    | 7,969.62              | 7,822.46              | 7,775.34              | 29.70            | 29.11         | -175.06               | 11.92                         | 743.00                 | 1,399.53                | 1,343.50                  | 56.03             | 24.976  |  |                    |           |
| 8,100.00                                                    | 8,069.18              | 7,919.75              | 7,871.69              | 30.08            | 29.50         | -175.05               | 12.16                         | 756.54                 | 1,422.66                | 1,365.91                  | 56.75             | 25.069  |  |                    |           |
| 8,200.00                                                    | 8,168.73              | 8,017.04              | 7,968.03              | 30.46            | 29.89         | -175.04               | 12.39                         | 770.07                 | 1,445.78                | 1,388.31                  | 57.47             | 25.159  |  |                    |           |
| 8,300.00                                                    | 8,268.29              | 8,114.33              | 8,064.37              | 30.84            | 30.28         | -175.04               | 12.63                         | 783.61                 | 1,468.90                | 1,410.72                  | 58.18             | 25.247  |  |                    |           |
| 8,400.00                                                    | 8,367.84              | 8,211.62              | 8,160.72              | 31.23            | 30.67         | -175.03               | 12.87                         | 797.15                 | 1,492.03                | 1,433.13                  | 58.90             | 25.333  |  |                    |           |
| 8,500.00                                                    | 8,467.39              | 8,308.91              | 8,257.06              | 31.61            | 31.06         | -175.02               | 13.10                         | 810.69                 | 1,515.15                | 1,455.54                  | 59.61             | 25.416  |  |                    |           |
| 8,600.00                                                    | 8,566.95              | 8,406.20              | 8,353.40              | 31.99            | 31.45         | -175.02               | 13.34                         | 824.23                 | 1,538.27                | 1,477.94                  | 60.33             | 25.498  |  |                    |           |
| 8,700.00                                                    | 8,666.50              | 8,503.49              | 8,449.74              | 32.37            | 31.84         | -175.01               | 13.58                         | 837.76                 | 1,561.40                | 1,500.35                  | 61.05             | 25.578  |  |                    |           |
| 8,800.00                                                    | 8,766.06              | 8,600.78              | 8,546.09              | 32.75            | 32.23         | -175.00               | 13.81                         | 851.30                 | 1,584.52                | 1,522.76                  | 61.76             | 25.655  |  |                    |           |
| 8,900.00                                                    | 8,865.60              | 8,698.06              | 8,642.42              | 33.13            | 32.62         | -175.00               | 14.05                         | 864.84                 | 1,607.64                | 1,544.98                  | 62.52             | 25.712  |  |                    |           |
| 9,000.00                                                    | 8,965.17              | 8,794.23              | 8,737.65              | 33.48            | 33.01         | -175.00               | 14.28                         | 878.22                 | 1,629.02                | 1,565.69                  | 63.33             | 25.725  |  |                    |           |
| 9,100.00                                                    | 9,064.73              | 8,893.81              | 8,837.03              | 33.80            | 33.38         | -175.00               | 14.51                         | 891.06                 | 1,648.72                | 1,584.65                  | 64.07             | 25.732  |  |                    |           |
| 9,200.00                                                    | 9,164.29              | 8,993.37              | 8,936.37              | 34.06            | 33.72         | -175.00               | 14.71                         | 902.97                 | 1,666.95                | 1,602.22                  | 64.73             | 25.754  |  |                    |           |
| 9,300.00                                                    | 9,263.85              | 9,092.93              | 9,035.33              | 34.28            | 34.03         | -175.00               | 14.90                         | 913.59                 | 1,684.41                | 1,619.12                  | 65.29             | 25.797  |  |                    |           |
| 9,400.00                                                    | 9,363.41              | 9,192.49              | 9,134.89              | 34.45            | 34.32         | -175.00               | 15.09                         | 923.48                 | 1,701.94                | 1,636.13                  | 65.81             | 25.862  |  |                    |           |
| 9,500.00                                                    | 9,462.97              | 9,292.05              | 9,234.45              | 34.59            | 34.64         | -175.00               | 15.27                         | 934.66                 | 1,719.70                | 1,653.34                  | 66.35             | 25.918  |  |                    |           |
| 9,600.00                                                    | 9,562.53              | 9,391.61              | 9,333.85              | 34.73            | 34.99         | -175.00               | 15.45                         | 945.53                 | 1,737.39                | 1,670.43                  | 66.96             | 25.946  |  |                    |           |
| 9,700.00                                                    | 9,662.09              | 9,491.17              | 9,433.31              | 34.91            | 35.41         | -175.00               | 15.63                         | 956.41                 | 1,754.42                | 1,686.72                  | 67.69             | 25.917  |  |                    |           |
| 9,800.00                                                    | 9,761.65              | 9,590.73              | 9,532.85              | 35.05            | 35.83         | -175.00               | 15.81                         | 967.29                 | 1,771.45                | 1,702.85                  | 68.42             | 25.888  |  |                    |           |
| 9,900.00                                                    | 9,861.21              | 9,690.29              | 9,632.41              | 35.19            | 36.21         | -175.00               | 16.00                         | 978.17                 | 1,788.48                | 1,719.88                  | 69.15             | 25.859  |  |                    |           |
| 10,000.00                                                   | 9,960.77              | 9,789.85              | 9,731.97              | 35.33            | 36.59         | -175.00               | 16.19                         | 989.05                 | 1,805.51                | 1,736.91                  | 69.88             | 25.830  |  |                    |           |
| 10,100.00                                                   | 10,060.33             | 9,889.41              | 9,831.53              | 35.47            | 36.97         | -175.00               | 16.38                         | 1,000.00               | 1,822.54                | 1,753.94                  | 70.61             | 25.791  |  |                    |           |
| 10,200.00                                                   | 10,159.89             | 9,988.97              | 9,931.09              | 35.61            | 37.35         | -175.00               | 16.57                         | 1,010.95               | 1,839.57                | 1,770.97                  | 71.34             | 25.752  |  |                    |           |
| 10,300.00                                                   | 10,259.45             | 10,088.53             | 10,030.65             | 35.75            | 37.73         | -175.00               | 16.76                         | 1,021.90               | 1,856.60                | 1,788.00                  | 72.07             | 25.713  |  |                    |           |

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

# Anticollision Report

|                            |                           |                                     |                                        |
|----------------------------|---------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>            | Marathon Oil Permian, LLC | <b>Local Co-ordinate Reference:</b> | Well 23-28-20 WXY #11H                 |
| <b>Project:</b>            | Eddy County, NM (NAD27)   | <b>TVD Reference:</b>               | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Reference Site:</b>     | Mariner Fee               | <b>MD Reference:</b>                | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>     | 23-28-20 WXY #11H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore:</b> | OH                        | <b>Database:</b>                    | Midland District                       |
| <b>Reference Design:</b>   | Plan #1                   | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design Mariner Fee - 23-28-20 WA #14H - OH - Plan #1 |                       |                       |                       |                  |               |                 |                               |                               |                        |                         |                           |                   | Offset Site Error: |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------|-------------------------------|-------------------------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|
| Survey Program: QMWDCDCGM                                   |                       |                       |                       |                  |               |                 |                               |                               |                        |                         |                           |                   | 0.00 usft          |
| Reference                                                   |                       |                       |                       |                  |               |                 |                               |                               |                        |                         |                           |                   | Offset Well Error: |
| Offset                                                      |                       |                       |                       |                  |               |                 |                               |                               |                        |                         |                           |                   | 0.00 usft          |
| Measured Depth (usft)                                       | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside (usft) | Offset Wellbore Centre (usft) | Offset Wellbore Centre (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning            |
| 10,400.00                                                   | 9,402.00              | 10,478.68             | 9,587.44              | 37.97            | 38.75         | 96.00           | 1,087.50                      | 993.52                        | 1,774.35               | 1,699.88                | 74.47                     | 23.826            |                    |
| 10,500.00                                                   | 9,402.00              | 10,578.69             | 9,587.44              | 38.62            | 39.32         | 96.00           | 1,187.50                      | 993.13                        | 1,773.98               | 1,698.25                | 75.73                     | 23.426            |                    |
| 10,600.00                                                   | 9,402.00              | 10,678.69             | 9,587.44              | 39.31            | 39.95         | 96.00           | 1,287.50                      | 992.75                        | 1,773.60               | 1,696.53                | 77.07                     | 23.013            |                    |
| 10,700.00                                                   | 9,402.00              | 10,778.69             | 9,587.43              | 40.04            | 40.62         | 96.00           | 1,387.51                      | 992.37                        | 1,773.23               | 1,694.73                | 78.50                     | 22.590            |                    |
| 10,800.00                                                   | 9,402.00              | 10,878.69             | 9,587.43              | 40.81            | 41.33         | 96.00           | 1,487.51                      | 991.98                        | 1,772.85               | 1,692.85                | 80.01                     | 22.159            |                    |
| 10,900.00                                                   | 9,402.00              | 10,978.69             | 9,587.42              | 41.62            | 42.08         | 96.00           | 1,587.51                      | 991.60                        | 1,772.48               | 1,690.89                | 81.59                     | 21.724            |                    |
| 11,000.00                                                   | 9,402.00              | 11,078.70             | 9,587.42              | 42.46            | 42.87         | 96.01           | 1,687.51                      | 991.21                        | 1,772.11               | 1,688.86                | 83.25                     | 21.288            |                    |
| 11,100.00                                                   | 9,402.00              | 11,178.70             | 9,587.41              | 43.34            | 43.69         | 96.01           | 1,787.51                      | 990.83                        | 1,771.73               | 1,686.76                | 84.97                     | 20.852            |                    |
| 11,200.00                                                   | 9,402.00              | 11,278.70             | 9,587.41              | 44.24            | 44.55         | 96.01           | 1,887.51                      | 990.44                        | 1,771.36               | 1,684.60                | 86.75                     | 20.418            |                    |
| 11,300.00                                                   | 9,402.00              | 11,378.70             | 9,587.40              | 45.17            | 45.44         | 96.01           | 1,987.51                      | 990.05                        | 1,770.98               | 1,682.38                | 88.60                     | 19.989            |                    |
| 11,400.00                                                   | 9,402.00              | 11,478.71             | 9,587.39              | 46.13            | 46.36         | 96.01           | 2,087.51                      | 989.67                        | 1,770.61               | 1,680.11                | 90.50                     | 19.565            |                    |
| 11,500.00                                                   | 9,402.00              | 11,578.71             | 9,587.38              | 47.12            | 47.30         | 96.01           | 2,187.52                      | 989.28                        | 1,770.23               | 1,677.78                | 92.45                     | 19.147            |                    |
| 11,600.00                                                   | 9,402.00              | 11,678.71             | 9,587.38              | 48.13            | 48.27         | 96.01           | 2,287.52                      | 988.90                        | 1,769.86               | 1,675.40                | 94.46                     | 18.737            |                    |
| 11,700.00                                                   | 9,402.00              | 11,778.71             | 9,587.37              | 49.16            | 49.27         | 96.01           | 2,387.52                      | 988.51                        | 1,769.48               | 1,672.98                | 96.50                     | 18.336            |                    |
| 11,800.00                                                   | 9,402.00              | 11,878.71             | 9,587.36              | 50.21            | 50.29         | 96.01           | 2,487.52                      | 988.13                        | 1,769.10               | 1,670.51                | 98.60                     | 17.943            |                    |
| 11,900.00                                                   | 9,402.00              | 11,978.72             | 9,587.35              | 51.28            | 51.33         | 96.02           | 2,587.52                      | 987.74                        | 1,768.73               | 1,668.00                | 100.73                    | 17.560            |                    |
| 12,000.00                                                   | 9,402.00              | 12,078.72             | 9,587.34              | 52.37            | 52.39         | 96.02           | 2,687.52                      | 987.35                        | 1,768.35               | 1,665.46                | 102.90                    | 17.186            |                    |
| 12,100.00                                                   | 9,402.00              | 12,178.72             | 9,587.33              | 53.48            | 53.47         | 96.02           | 2,787.52                      | 986.97                        | 1,767.98               | 1,662.87                | 105.10                    | 16.821            |                    |
| 12,200.00                                                   | 9,402.00              | 12,278.72             | 9,587.31              | 54.61            | 54.56         | 96.02           | 2,887.53                      | 986.58                        | 1,767.60               | 1,660.26                | 107.34                    | 16.467            |                    |
| 12,300.00                                                   | 9,402.00              | 12,378.72             | 9,587.30              | 55.75            | 55.68         | 96.02           | 2,987.53                      | 986.20                        | 1,767.22               | 1,657.61                | 109.61                    | 16.123            |                    |
| 12,400.00                                                   | 9,402.00              | 12,478.73             | 9,587.29              | 56.90            | 56.81         | 96.02           | 3,087.53                      | 985.81                        | 1,766.85               | 1,654.94                | 111.91                    | 15.788            |                    |
| 12,500.00                                                   | 9,402.00              | 12,578.73             | 9,587.28              | 58.07            | 57.95         | 96.02           | 3,187.53                      | 985.42                        | 1,766.47               | 1,652.23                | 114.24                    | 15.463            |                    |
| 12,600.00                                                   | 9,402.00              | 12,678.73             | 9,587.26              | 59.25            | 59.11         | 96.02           | 3,287.53                      | 985.04                        | 1,766.09               | 1,649.50                | 116.59                    | 15.148            |                    |
| 12,700.00                                                   | 9,402.00              | 12,778.73             | 9,587.25              | 60.44            | 60.28         | 96.02           | 3,387.53                      | 984.65                        | 1,765.72               | 1,646.75                | 118.97                    | 14.842            |                    |
| 12,800.00                                                   | 9,402.00              | 12,878.73             | 9,587.23              | 61.64            | 61.46         | 96.02           | 3,487.53                      | 984.26                        | 1,765.34               | 1,643.97                | 121.37                    | 14.545            |                    |
| 12,900.00                                                   | 9,402.00              | 12,978.74             | 9,587.22              | 62.86            | 62.66         | 96.02           | 3,587.53                      | 983.87                        | 1,764.96               | 1,641.17                | 123.79                    | 14.257            |                    |
| 13,000.00                                                   | 9,402.00              | 13,078.74             | 9,587.20              | 64.08            | 63.87         | 96.02           | 3,687.54                      | 983.49                        | 1,764.58               | 1,638.35                | 126.24                    | 13.979            |                    |
| 13,100.00                                                   | 9,402.00              | 13,178.74             | 9,587.19              | 65.32            | 65.08         | 96.03           | 3,787.54                      | 983.10                        | 1,764.21               | 1,635.51                | 128.70                    | 13.708            |                    |
| 13,200.00                                                   | 9,402.00              | 13,278.74             | 9,587.17              | 66.56            | 66.31         | 96.03           | 3,887.54                      | 982.71                        | 1,763.83               | 1,632.65                | 131.18                    | 13.446            |                    |
| 13,300.00                                                   | 9,402.00              | 13,378.74             | 9,587.15              | 67.81            | 67.55         | 96.03           | 3,987.54                      | 982.33                        | 1,763.45               | 1,629.77                | 133.68                    | 13.192            |                    |
| 13,400.00                                                   | 9,402.00              | 13,478.75             | 9,587.14              | 69.07            | 68.79         | 96.03           | 4,087.54                      | 981.94                        | 1,763.07               | 1,626.88                | 136.19                    | 12.946            |                    |
| 13,500.00                                                   | 9,402.00              | 13,578.75             | 9,587.12              | 70.34            | 70.04         | 96.03           | 4,187.54                      | 981.55                        | 1,762.69               | 1,623.97                | 138.72                    | 12.707            |                    |
| 13,600.00                                                   | 9,402.00              | 13,678.75             | 9,587.10              | 71.62            | 71.30         | 96.03           | 4,287.54                      | 981.16                        | 1,762.31               | 1,621.05                | 141.26                    | 12.476            |                    |
| 13,700.00                                                   | 9,402.00              | 13,778.75             | 9,587.08              | 72.90            | 72.57         | 96.03           | 4,387.54                      | 980.77                        | 1,761.94               | 1,618.12                | 143.82                    | 12.251            |                    |
| 13,800.00                                                   | 9,402.00              | 13,878.75             | 9,587.06              | 74.19            | 73.85         | 96.03           | 4,487.55                      | 980.39                        | 1,761.56               | 1,615.17                | 146.39                    | 12.033            |                    |
| 13,900.00                                                   | 9,402.00              | 13,978.76             | 9,587.04              | 75.48            | 75.13         | 96.03           | 4,587.55                      | 980.00                        | 1,761.18               | 1,612.21                | 148.97                    | 11.822            |                    |
| 14,000.00                                                   | 9,402.00              | 14,078.76             | 9,587.02              | 76.78            | 76.42         | 96.03           | 4,687.55                      | 979.61                        | 1,760.80               | 1,609.23                | 151.57                    | 11.617            |                    |
| 14,094.06                                                   | 9,402.00              | 14,168.13             | 9,587.00              | 78.01            | 77.49         | 96.03           | 4,776.92                      | 979.26                        | 1,760.45               | 1,606.63                | 153.82                    | 11.445            |                    |
| 14,100.00                                                   | 9,402.00              | 14,168.13             | 9,587.00              | 78.09            | 77.49         | 96.03           | 4,776.92                      | 979.26                        | 1,760.45               | 1,606.55                | 153.90                    | 11.439            |                    |
| 14,102.76                                                   | 9,402.00              | 14,168.13             | 9,587.00              | 78.15            | 77.49         | 96.03           | 4,776.92                      | 979.26                        | 1,760.46               | 1,606.53                | 153.93                    | 11.436            |                    |

# Anticollision Report

Company: Marathon Oil Permian, LLC  
 Project: Eddy County, NM (NAD27)  
 Reference Site: Mariner Fee  
 Site Error: 0.00 usft  
 Reference Well: 23-28-20 WXY #11H  
 Well Error: 0.00 usft  
 Reference Wellbore: OH  
 Reference Design: Plan #1

Local Co-ordinate Reference: Well 23-28-20 WXY #11H  
 TVD Reference: KB = 28' @ 3103.00usft (Patterson 244)  
 MD Reference: KB = 28' @ 3103.00usft (Patterson 244)  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature  
 Output errors are at: 2.00 sigma  
 Database: Midland District  
 Offset TVD Reference: Offset Datum

| Offset Design              |          |          |          |           |        |            |                 |          |          |           | Mariner Fee - 23-28-20 WXY #18H - OH - Plan #1 |               | Offset Site Error: 0.00 usft |  |
|----------------------------|----------|----------|----------|-----------|--------|------------|-----------------|----------|----------|-----------|------------------------------------------------|---------------|------------------------------|--|
| Survey Program: O-MWDHDDMN |          |          |          | Offset    |        |            | Beam Major Axis |          | Distance |           | Offset Well Error: 0.00 usft                   |               |                              |  |
| Reference                  | Vertical | Measured | Vertical | Reference | Offset | Highside   | Offset          | Wellbore | Center   | Reference | Minimum                                        | Separation    | Warning                      |  |
| Depth                      | Depth    | Depth    | Depth    | Reference | Offset | Footcandle | Wellbore        | Center   | Wellbore | Reference | Separation                                     | Factor        |                              |  |
| (usft)                     | (usft)   | (usft)   | (usft)   | (usft)    | (usft) | (°)        | (usft)          | (usft)   | (usft)   | (usft)    | (usft)                                         |               |                              |  |
| 0.00                       | 0.00     | 0.00     | 0.00     | 0.00      | 0.00   | 90.00      | 0.00            | 90.01    | 90.01    | 90.01     |                                                |               |                              |  |
| 100.00                     | 100.00   | 100.00   | 100.00   | 0.13      | 0.13   | 90.00      | 0.00            | 90.01    | 90.01    | 89.75     | 0.26                                           | 348.732       |                              |  |
| 200.00                     | 200.00   | 200.00   | 200.00   | 0.49      | 0.49   | 90.00      | 0.00            | 90.01    | 90.01    | 89.03     | 0.98                                           | 92.312        |                              |  |
| 300.00                     | 300.00   | 300.00   | 300.00   | 0.85      | 0.85   | 90.00      | 0.00            | 90.01    | 90.01    | 88.32     | 1.69                                           | 53.196        |                              |  |
| 400.00                     | 400.00   | 400.00   | 400.00   | 1.20      | 1.20   | 90.00      | 0.00            | 90.01    | 90.01    | 87.60     | 2.41                                           | 37.364        |                              |  |
| 500.00                     | 500.00   | 500.00   | 500.00   | 1.56      | 1.56   | 90.00      | 0.00            | 90.01    | 90.01    | 86.88     | 3.13                                           | 28.794        |                              |  |
| 600.00                     | 600.00   | 600.00   | 600.00   | 1.92      | 1.92   | 90.00      | 0.00            | 90.01    | 90.01    | 86.16     | 3.84                                           | 23.422        |                              |  |
| 700.00                     | 700.00   | 700.00   | 700.00   | 2.28      | 2.28   | 90.00      | 0.00            | 90.01    | 90.01    | 85.45     | 4.56                                           | 19.740        |                              |  |
| 800.00                     | 800.00   | 800.00   | 800.00   | 2.64      | 2.64   | 90.00      | 0.00            | 90.01    | 90.01    | 84.73     | 5.28                                           | 17.058        |                              |  |
| 900.00                     | 900.00   | 900.00   | 900.00   | 3.00      | 3.00   | 90.00      | 0.00            | 90.01    | 90.01    | 84.01     | 5.99                                           | 15.017        |                              |  |
| 1,000.00                   | 1,000.00 | 1,000.00 | 1,000.00 | 3.36      | 3.36   | 90.00      | 0.00            | 90.01    | 90.01    | 83.30     | 6.71                                           | 13.413 CC, ES |                              |  |
| 1,100.00                   | 1,099.98 | 1,099.98 | 1,099.98 | 3.70      | 3.71   | -170.18    | 0.00            | 90.01    | 91.73    | 84.31     | 7.42                                           | 12.369        |                              |  |
| 1,200.00                   | 1,199.84 | 1,199.84 | 1,199.84 | 4.05      | 4.07   | -170.69    | 0.00            | 90.01    | 96.89    | 88.78     | 8.11                                           | 11.951        |                              |  |
| 1,300.00                   | 1,299.47 | 1,299.47 | 1,299.47 | 4.39      | 4.43   | -171.43    | 0.00            | 90.01    | 105.35   | 96.55     | 8.80                                           | 11.977        |                              |  |
| 1,400.00                   | 1,399.02 | 1,399.02 | 1,399.02 | 4.75      | 4.79   | -172.13    | 0.00            | 90.01    | 114.68   | 105.18    | 9.50                                           | 12.076        |                              |  |
| 1,500.00                   | 1,498.58 | 1,498.58 | 1,498.58 | 5.11      | 5.14   | -172.73    | 0.00            | 90.01    | 124.03   | 113.83    | 10.20                                          | 12.160        |                              |  |
| 1,600.00                   | 1,598.13 | 1,598.13 | 1,598.13 | 5.47      | 5.50   | -173.24    | 0.00            | 90.01    | 133.39   | 122.48    | 10.90                                          | 12.232        |                              |  |
| 1,700.00                   | 1,697.69 | 1,697.69 | 1,697.69 | 5.83      | 5.86   | -173.69    | 0.00            | 90.01    | 142.75   | 131.14    | 11.61                                          | 12.294        |                              |  |
| 1,800.00                   | 1,797.24 | 1,797.24 | 1,797.24 | 6.20      | 6.21   | -174.08    | 0.00            | 90.01    | 152.13   | 139.81    | 12.32                                          | 12.347        |                              |  |
| 1,900.00                   | 1,896.79 | 1,896.79 | 1,896.79 | 6.56      | 6.57   | -174.42    | 0.00            | 90.01    | 161.51   | 148.48    | 13.03                                          | 12.395        |                              |  |
| 2,000.00                   | 1,996.35 | 1,996.35 | 1,996.35 | 6.93      | 6.93   | -174.73    | 0.00            | 90.01    | 170.90   | 157.15    | 13.74                                          | 12.436        |                              |  |
| 2,100.00                   | 2,095.90 | 2,095.90 | 2,095.90 | 7.31      | 7.28   | -175.00    | 0.00            | 90.01    | 180.29   | 165.83    | 14.45                                          | 12.473        |                              |  |
| 2,200.00                   | 2,195.46 | 2,195.46 | 2,195.46 | 7.68      | 7.64   | -175.25    | 0.00            | 90.01    | 189.68   | 174.52    | 15.17                                          | 12.507        |                              |  |
| 2,300.00                   | 2,295.01 | 2,295.01 | 2,295.01 | 8.05      | 8.00   | -175.48    | 0.00            | 90.01    | 199.08   | 183.20    | 15.88                                          | 12.537        |                              |  |
| 2,400.00                   | 2,394.57 | 2,394.57 | 2,394.57 | 8.42      | 8.35   | -175.68    | 0.00            | 90.01    | 208.48   | 191.89    | 16.59                                          | 12.564        |                              |  |
| 2,500.00                   | 2,494.12 | 2,494.12 | 2,494.12 | 8.80      | 8.71   | -175.87    | 0.00            | 90.01    | 217.88   | 200.57    | 17.31                                          | 12.588        |                              |  |
| 2,600.00                   | 2,593.68 | 2,593.68 | 2,593.68 | 9.17      | 9.07   | -176.04    | 0.00            | 90.01    | 227.29   | 209.26    | 18.02                                          | 12.611        |                              |  |
| 2,700.00                   | 2,693.23 | 2,693.23 | 2,693.23 | 9.55      | 9.43   | -176.20    | 0.00            | 90.01    | 236.69   | 217.96    | 18.74                                          | 12.631        |                              |  |
| 2,800.00                   | 2,792.79 | 2,785.09 | 2,785.07 | 9.92      | 9.74   | -176.26    | -0.15           | 91.45    | 247.64   | 228.23    | 19.41                                          | 12.758        |                              |  |
| 2,900.00                   | 2,892.34 | 2,876.19 | 2,876.06 | 10.30     | 10.05  | -176.18    | -0.61           | 95.78    | 261.69   | 241.61    | 20.08                                          | 13.033        |                              |  |
| 3,000.00                   | 2,991.89 | 2,966.39 | 2,965.98 | 10.68     | 10.36  | -175.98    | -1.35           | 102.90   | 278.79   | 258.05    | 20.75                                          | 13.438        |                              |  |
| 3,100.00                   | 3,091.45 | 3,055.54 | 3,054.58 | 11.06     | 10.67  | -175.69    | -2.38           | 112.69   | 298.91   | 277.50    | 21.41                                          | 13.962        |                              |  |
| 3,200.00                   | 3,191.00 | 3,149.24 | 3,147.40 | 11.43     | 11.00  | -175.34    | -3.72           | 125.36   | 321.48   | 299.39    | 22.09                                          | 14.555        |                              |  |
| 3,300.00                   | 3,290.56 | 3,246.58 | 3,243.81 | 11.81     | 11.34  | -175.01    | -5.12           | 138.75   | 344.30   | 321.52    | 22.78                                          | 15.117        |                              |  |
| 3,400.00                   | 3,390.11 | 3,343.92 | 3,340.22 | 12.19     | 11.69  | -174.73    | -6.53           | 152.14   | 367.12   | 343.66    | 23.47                                          | 15.645        |                              |  |
| 3,500.00                   | 3,489.67 | 3,441.27 | 3,436.63 | 12.57     | 12.04  | -174.47    | -7.94           | 165.53   | 389.96   | 365.80    | 24.16                                          | 16.142        |                              |  |
| 3,600.00                   | 3,589.22 | 3,538.61 | 3,533.04 | 12.95     | 12.39  | -174.25    | -9.35           | 178.92   | 412.80   | 387.95    | 24.85                                          | 16.611        |                              |  |
| 3,700.00                   | 3,688.78 | 3,635.96 | 3,629.45 | 13.33     | 12.75  | -174.05    | -10.75          | 192.31   | 435.65   | 410.10    | 25.55                                          | 17.054        |                              |  |
| 3,800.00                   | 3,788.33 | 3,733.30 | 3,725.86 | 13.70     | 13.11  | -173.87    | -12.16          | 205.70   | 458.50   | 432.26    | 26.24                                          | 17.472        |                              |  |
| 3,900.00                   | 3,887.89 | 3,830.65 | 3,822.27 | 14.08     | 13.47  | -173.70    | -13.57          | 219.09   | 481.35   | 454.41    | 26.94                                          | 17.868        |                              |  |
| 4,000.00                   | 3,987.44 | 3,927.99 | 3,918.67 | 14.46     | 13.83  | -173.55    | -14.97          | 232.48   | 504.21   | 476.58    | 27.64                                          | 18.243        |                              |  |
| 4,100.00                   | 4,086.99 | 4,025.33 | 4,015.08 | 14.84     | 14.20  | -173.42    | -16.38          | 245.87   | 527.08   | 498.74    | 28.34                                          | 18.599        |                              |  |
| 4,200.00                   | 4,186.55 | 4,122.68 | 4,111.49 | 15.22     | 14.56  | -173.29    | -17.79          | 259.26   | 549.94   | 520.90    | 29.04                                          | 18.938        |                              |  |
| 4,300.00                   | 4,286.10 | 4,220.02 | 4,207.90 | 15.60     | 14.93  | -173.18    | -19.20          | 272.65   | 572.81   | 543.07    | 29.74                                          | 19.260        |                              |  |
| 4,400.00                   | 4,385.66 | 4,317.37 | 4,304.31 | 15.98     | 15.30  | -173.07    | -20.60          | 286.04   | 595.68   | 565.23    | 30.44                                          | 19.566        |                              |  |
| 4,500.00                   | 4,485.21 | 4,414.71 | 4,400.72 | 16.36     | 15.67  | -172.97    | -22.01          | 299.43   | 618.55   | 587.40    | 31.15                                          | 19.859        |                              |  |
| 4,600.00                   | 4,584.77 | 4,512.06 | 4,497.13 | 16.74     | 16.04  | -172.88    | -23.42          | 312.82   | 641.42   | 609.57    | 31.85                                          | 20.138        |                              |  |
| 4,700.00                   | 4,684.32 | 4,609.40 | 4,593.53 | 17.12     | 16.42  | -172.80    | -24.83          | 326.21   | 664.29   | 631.74    | 32.56                                          | 20.404        |                              |  |
| 4,800.00                   | 4,783.88 | 4,706.74 | 4,689.94 | 17.50     | 16.79  | -172.72    | -26.23          | 339.60   | 687.17   | 653.91    | 33.26                                          | 20.659        |                              |  |
| 4,900.00                   | 4,883.43 | 4,804.09 | 4,786.35 | 17.88     | 17.17  | -172.64    | -27.64          | 352.99   | 710.04   | 676.08    | 33.97                                          | 20.903        |                              |  |
| 5,000.00                   | 4,982.99 | 4,901.43 | 4,882.76 | 18.26     | 17.54  | -172.57    | -29.05          | 366.38   | 732.92   | 698.25    | 34.67                                          | 21.137        |                              |  |
| 5,100.00                   | 5,082.54 | 4,998.78 | 4,979.17 | 18.64     | 17.92  | -172.51    | -30.46          | 379.77   | 755.80   | 720.42    | 35.38                                          | 21.361        |                              |  |

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

# Anticollision Report

|                            |                           |                                     |                                        |
|----------------------------|---------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>            | Marathon Oil Permian, LLC | <b>Local Co-ordinate Reference:</b> | Well 23-28-20 WXY #11H                 |
| <b>Project:</b>            | Eddy County, NM (NAD27)   | <b>TVD Reference:</b>               | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Reference Site:</b>     | Mariner Fee               | <b>MD Reference:</b>                | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Site Error:</b>         | 0.00 usft                 | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>     | 23-28-20 WXY #11H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>         | 0.00 usft                 | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore:</b> | OH                        | <b>Databases:</b>                   | Midland District                       |
| <b>Reference Design:</b>   | Plan #1                   | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design - Mariner Fee - 23-28-20 WXY #18H - OH - Plan #1 |                       |                       |                       |                   |               |                  |               |                        |               |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|----------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-------------------|---------------|------------------|---------------|------------------------|---------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: D-MWD-H-DCM                                    |                       |                       |                       |                   |               |                  |               |                        |               |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                      |                       | Offset                |                       | Serial Major Axis |               | Highside         |               | Offset Wellbore Centre |               | Between Centres        |                         | Minimum Separation        | Separation Factor | Warning            |           |
| Measured Depth (usft)                                          | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft)  | Offset (usft) | Reference (usft) | Offset (usft) | Offset (usft)          | Offset (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 5,200.00                                                       | 5,182.09              | 5,096.12              | 5,075.58              | 19.02             | 18.30         | -172.45          | -31.86        | 393.16                 | 778.68        | 742.59                 | 36.09                   | 21.576                    |                   |                    |           |
| 5,300.00                                                       | 5,281.65              | 5,193.47              | 5,171.99              | 19.41             | 18.88         | -172.39          | -33.27        | 406.55                 | 801.56        | 764.76                 | 36.80                   | 21.782                    |                   |                    |           |
| 5,400.00                                                       | 5,381.20              | 5,290.81              | 5,268.40              | 19.79             | 19.06         | -172.33          | -34.68        | 419.94                 | 824.44        | 786.93                 | 37.51                   | 21.981                    |                   |                    |           |
| 5,500.00                                                       | 5,480.76              | 5,388.15              | 5,364.80              | 20.17             | 19.44         | -172.28          | -36.08        | 433.33                 | 847.32        | 809.10                 | 38.22                   | 22.171                    |                   |                    |           |
| 5,600.00                                                       | 5,580.31              | 5,485.50              | 5,461.21              | 20.55             | 19.82         | -172.23          | -37.49        | 446.72                 | 870.20        | 831.28                 | 38.93                   | 22.355                    |                   |                    |           |
| 5,700.00                                                       | 5,679.87              | 5,582.84              | 5,557.62              | 20.93             | 20.20         | -172.19          | -38.90        | 460.11                 | 893.08        | 853.45                 | 39.64                   | 22.532                    |                   |                    |           |
| 5,800.00                                                       | 5,779.42              | 5,680.19              | 5,654.03              | 21.31             | 20.58         | -172.14          | -40.31        | 473.50                 | 915.97        | 875.62                 | 40.35                   | 22.702                    |                   |                    |           |
| 5,900.00                                                       | 5,878.98              | 5,777.53              | 5,750.44              | 21.69             | 20.96         | -172.10          | -41.71        | 486.89                 | 938.85        | 897.79                 | 41.06                   | 22.866                    |                   |                    |           |
| 6,000.00                                                       | 5,978.53              | 5,874.87              | 5,846.85              | 22.07             | 21.35         | -172.06          | -43.12        | 500.28                 | 961.74        | 919.97                 | 41.77                   | 23.025                    |                   |                    |           |
| 6,100.00                                                       | 6,078.09              | 5,972.22              | 5,943.26              | 22.45             | 21.73         | -172.02          | -44.53        | 513.67                 | 984.62        | 942.14                 | 42.48                   | 23.178                    |                   |                    |           |
| 6,200.00                                                       | 6,177.64              | 6,069.56              | 6,039.67              | 22.83             | 22.11         | -171.98          | -45.94        | 527.06                 | 1,007.50      | 964.31                 | 43.19                   | 23.326                    |                   |                    |           |
| 6,300.00                                                       | 6,277.19              | 6,166.91              | 6,136.07              | 23.22             | 22.50         | -171.95          | -47.34        | 540.45                 | 1,030.39      | 986.48                 | 43.91                   | 23.468                    |                   |                    |           |
| 6,400.00                                                       | 6,376.75              | 6,264.25              | 6,232.48              | 23.60             | 22.88         | -171.92          | -48.75        | 553.84                 | 1,053.27      | 1,008.66               | 44.62                   | 23.607                    |                   |                    |           |
| 6,500.00                                                       | 6,476.30              | 6,361.60              | 6,328.89              | 23.98             | 23.27         | -171.88          | -50.16        | 567.23                 | 1,076.16      | 1,030.83               | 45.33                   | 23.740                    |                   |                    |           |
| 6,600.00                                                       | 6,575.86              | 6,458.94              | 6,425.30              | 24.36             | 23.65         | -171.85          | -51.56        | 580.62                 | 1,099.05      | 1,053.00               | 46.04                   | 23.870                    |                   |                    |           |
| 6,700.00                                                       | 6,675.41              | 6,556.28              | 6,521.71              | 24.74             | 24.04         | -171.82          | -52.97        | 594.01                 | 1,121.93      | 1,075.18               | 46.76                   | 23.995                    |                   |                    |           |
| 6,800.00                                                       | 6,774.97              | 6,653.63              | 6,618.12              | 25.12             | 24.43         | -171.80          | -54.38        | 607.40                 | 1,144.82      | 1,097.35               | 47.47                   | 24.116                    |                   |                    |           |
| 6,900.00                                                       | 6,874.52              | 6,750.97              | 6,714.53              | 25.50             | 24.81         | -171.77          | -55.79        | 620.79                 | 1,167.71      | 1,119.52               | 48.18                   | 24.234                    |                   |                    |           |
| 7,000.00                                                       | 6,974.08              | 6,848.32              | 6,810.93              | 25.88             | 25.20         | -171.74          | -57.19        | 634.17                 | 1,190.59      | 1,141.70               | 48.90                   | 24.348                    |                   |                    |           |
| 7,100.00                                                       | 7,073.63              | 6,945.66              | 6,907.34              | 26.27             | 25.59         | -171.72          | -58.60        | 647.56                 | 1,213.48      | 1,163.87               | 49.61                   | 24.459                    |                   |                    |           |
| 7,200.00                                                       | 7,173.19              | 7,043.01              | 7,003.75              | 26.65             | 25.98         | -171.69          | -60.01        | 660.95                 | 1,236.37      | 1,186.04               | 50.33                   | 24.566                    |                   |                    |           |
| 7,300.00                                                       | 7,272.74              | 7,140.35              | 7,100.16              | 27.03             | 26.36         | -171.67          | -61.42        | 674.34                 | 1,259.26      | 1,208.21               | 51.04                   | 24.671                    |                   |                    |           |
| 7,400.00                                                       | 7,372.29              | 7,237.69              | 7,196.57              | 27.41             | 26.75         | -171.65          | -62.82        | 687.73                 | 1,282.14      | 1,230.39               | 51.76                   | 24.772                    |                   |                    |           |
| 7,500.00                                                       | 7,471.85              | 7,335.04              | 7,292.98              | 27.79             | 27.14         | -171.63          | -64.23        | 701.12                 | 1,305.03      | 1,252.56               | 52.47                   | 24.870                    |                   |                    |           |
| 7,600.00                                                       | 7,571.40              | 7,432.38              | 7,389.39              | 28.17             | 27.53         | -171.61          | -65.64        | 714.51                 | 1,327.92      | 1,274.73               | 53.19                   | 24.966                    |                   |                    |           |
| 7,700.00                                                       | 7,670.96              | 7,529.73              | 7,485.80              | 28.55             | 27.92         | -171.59          | -67.05        | 727.90                 | 1,350.81      | 1,296.91               | 53.90                   | 25.059                    |                   |                    |           |
| 7,800.00                                                       | 7,770.51              | 7,627.07              | 7,582.20              | 28.94             | 28.31         | -171.57          | -68.45        | 741.29                 | 1,373.70      | 1,319.08               | 54.62                   | 25.150                    |                   |                    |           |
| 7,900.00                                                       | 7,870.07              | 7,724.42              | 7,678.61              | 29.32             | 28.70         | -171.55          | -69.86        | 754.68                 | 1,396.59      | 1,341.25               | 55.34                   | 25.238                    |                   |                    |           |
| 8,000.00                                                       | 7,969.62              | 7,821.76              | 7,775.02              | 29.70             | 29.09         | -171.53          | -71.27        | 768.07                 | 1,419.48      | 1,363.42               | 56.05                   | 25.324                    |                   |                    |           |
| 8,100.00                                                       | 8,069.18              | 7,919.10              | 7,871.43              | 30.08             | 29.47         | -171.51          | -72.67        | 781.46                 | 1,442.37      | 1,385.60               | 56.77                   | 25.408                    |                   |                    |           |
| 8,200.00                                                       | 8,168.73              | 8,016.45              | 7,967.84              | 30.46             | 29.86         | -171.49          | -74.08        | 794.85                 | 1,465.25      | 1,407.77               | 57.49                   | 25.489                    |                   |                    |           |
| 8,300.00                                                       | 8,268.29              | 8,113.79              | 8,064.25              | 30.84             | 30.26         | -171.48          | -75.49        | 808.24                 | 1,488.14      | 1,429.94               | 58.20                   | 25.568                    |                   |                    |           |
| 8,400.00                                                       | 8,367.84              | 8,211.14              | 8,160.66              | 31.23             | 30.65         | -171.46          | -76.90        | 821.63                 | 1,511.03      | 1,452.11               | 58.92                   | 25.646                    |                   |                    |           |
| 8,500.00                                                       | 8,467.39              | 8,308.48              | 8,257.07              | 31.61             | 31.04         | -171.45          | -78.30        | 835.02                 | 1,533.92      | 1,474.29               | 59.64                   | 25.721                    |                   |                    |           |
| 8,600.00                                                       | 8,566.95              | 8,405.83              | 8,353.47              | 31.99             | 31.43         | -171.43          | -79.71        | 848.41                 | 1,556.81      | 1,496.46               | 60.35                   | 25.795                    |                   |                    |           |
| 8,700.00                                                       | 8,666.50              | 8,503.17              | 8,449.88              | 32.37             | 31.82         | -171.42          | -81.12        | 861.80                 | 1,579.70      | 1,518.63               | 61.07                   | 25.866                    |                   |                    |           |
| 8,800.00                                                       | 8,766.06              | 8,600.51              | 8,546.29              | 32.75             | 32.21         | -171.40          | -82.53        | 875.19                 | 1,602.59      | 1,540.80               | 61.79                   | 25.936                    |                   |                    |           |
| 8,900.00                                                       | 8,865.60              | 8,697.82              | 8,642.66              | 33.13             | 32.60         | -171.38          | -83.93        | 888.58                 | 1,625.44      | 1,562.91               | 62.52                   | 25.999                    |                   |                    |           |
| 9,000.00                                                       | 8,965.17              | 8,793.77              | 8,737.69              | 33.48             | 32.98         | -171.36          | -85.32        | 901.97                 | 1,647.72      | 1,584.43               | 63.29                   | 26.035                    |                   |                    |           |
| 9,100.00                                                       | 9,064.73              | 8,893.31              | 8,837.58              | 33.80             | 33.35         | -171.34          | -86.65        | 914.40                 | 1,669.24      | 1,605.21               | 64.03                   | 26.070                    |                   |                    |           |
| 9,200.00                                                       | 9,164.29              | 8,992.86              | 8,936.15              | 34.06             | 33.71         | -171.32          | -87.98        | 926.83                 | 1,690.19      | 1,625.47               | 64.72                   | 26.116                    |                   |                    |           |
| 9,300.00                                                       | 9,263.85              | 9,092.41              | 9,035.17              | 34.38             | 34.09         | -171.30          | -89.30        | 939.26                 | 1,711.28      | 1,644.90               | 65.38                   | 26.158                    |                   |                    |           |
| 9,400.00                                                       | 9,363.41              | 9,191.96              | 9,134.20              | 34.69             | 34.47         | -171.28          | -90.62        | 951.69                 | 1,732.36      | 1,664.44               | 66.03                   | 26.185                    |                   |                    |           |
| 9,500.00                                                       | 9,462.97              | 9,291.51              | 9,232.23              | 35.00             | 34.83         | -171.26          | -91.94        | 964.12                 | 1,752.88      | 1,683.44               | 66.68                   | 26.213                    |                   |                    |           |
| 9,600.00                                                       | 9,562.53              | 9,391.06              | 9,331.23              | 35.31             | 35.15         | -171.24          | -93.26        | 976.55                 | 1,772.88      | 1,702.44               | 67.33                   | 26.239                    |                   |                    |           |
| 9,700.00                                                       | 9,662.09              | 9,490.61              | 9,430.15              | 35.62             | 35.53         | -171.22          | -94.58        | 988.98                 | 1,792.88      | 1,721.44               | 67.98                   | 26.266                    |                   |                    |           |
| 9,800.00                                                       | 9,761.65              | 9,590.16              | 9,529.15              | 35.93             | 35.84         | -171.20          | -95.90        | 1,001.41               | 1,812.88      | 1,740.44               | 68.63                   | 26.292                    |                   |                    |           |
| 9,900.00                                                       | 9,861.21              | 9,689.71              | 9,628.15              | 36.24             | 36.15         | -171.18          | -97.22        | 1,013.84               | 1,832.88      | 1,759.44               | 69.28                   | 26.319                    |                   |                    |           |
| 10,000.00                                                      | 9,960.77              | 9,789.26              | 9,727.15              | 36.55             | 36.46         | -171.16          | -98.54        | 1,026.27               | 1,852.88      | 1,778.44               | 69.93                   | 26.346                    |                   |                    |           |
| 10,100.00                                                      | 10,060.33             | 9,888.81              | 9,826.15              | 36.86             | 36.77         | -171.14          | -99.86        | 1,038.70               | 1,872.88      | 1,797.44               | 70.58                   | 26.373                    |                   |                    |           |
| 10,200.00                                                      | 10,159.89             | 9,988.36              | 9,925.15              | 37.17             | 37.08         | -171.12          | -101.18       | 1,051.13               | 1,892.88      | 1,816.44               | 71.23                   | 26.400                    |                   |                    |           |
| 10,300.00                                                      | 10,259.45             | 10,087.91             | 10,024.15             | 37.48             | 37.39         | -171.10          | -102.50       | 1,063.56               | 1,912.88      | 1,835.44               | 71.88                   | 26.427                    |                   |                    |           |

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

# Anticollision Report

|                           |                           |                                     |                                        |
|---------------------------|---------------------------|-------------------------------------|----------------------------------------|
| <b>Company:</b>           | Marathon Oil Permian, LLC | <b>Local Co-ordinate Reference:</b> | Well 23-28-20 WXY #11H                 |
| <b>Project:</b>           | Eddy County, NM (NAD27)   | <b>TVD Reference:</b>               | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Reference Site:</b>    | Mariner Fee               | <b>MD Reference:</b>                | KB = 28' @ 3103.00usft (Patterson 244) |
| <b>Site Error:</b>        | 0.00 usft                 | <b>North Reference:</b>             | Grid                                   |
| <b>Reference Well:</b>    | 23-28-20 WXY #11H         | <b>Survey Calculation Method:</b>   | Minimum Curvature                      |
| <b>Well Error:</b>        | 0.00 usft                 | <b>Output errors are at</b>         | 2.00 sigma                             |
| <b>Reference Wellbore</b> | OH                        | <b>Database:</b>                    | Midland District                       |
| <b>Reference Design:</b>  | Plan #1                   | <b>Offset TVD Reference:</b>        | Offset Datum                           |

| Offset Design Mariner Fee - 23-28-20 WXY #18H - OH - Plan #1 |                       |                       |                       |                  |               |                       |                                    |                                    |                        |                        |                           | Offset Site Error: 0.00 usft |         |
|--------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|------------------------------------|------------------------------------|------------------------|------------------------|---------------------------|------------------------------|---------|
| Survey Program: O-MWD+HOGM                                   |                       |                       |                       |                  |               |                       |                                    |                                    |                        |                        |                           | Offset Well Error: 0.00 usft |         |
| Reference                                                    |                       | Offset                |                       | Borel Major Axis |               |                       |                                    | Distance                           |                        |                        |                           |                              |         |
| Measured Depth (usft)                                        | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N-S (usft) | Offset Wellbore Centre +E/W (usft) | Between Centres (usft) | Between Ellipse (usft) | Minimum Separation (usft) | Separation Factor            | Warning |
| 10,400.00                                                    | 9,402.00              | 10,433.97             | 9,442.00              | 37.97            | 38.21         | 91.30                 | 1,088.10                           | 994.64                             | 1,766.21               | 1,691.69               | 74.52                     | 23.702                       |         |
| 10,500.00                                                    | 9,402.00              | 10,533.97             | 9,442.00              | 38.62            | 38.82         | 91.30                 | 1,188.10                           | 994.22                             | 1,765.80               | 1,689.99               | 75.80                     | 23.294                       |         |
| 10,600.00                                                    | 9,402.00              | 10,633.96             | 9,442.00              | 39.31            | 39.48         | 91.30                 | 1,288.09                           | 993.80                             | 1,765.39               | 1,688.21               | 77.18                     | 22.874                       |         |
| 10,700.00                                                    | 9,402.00              | 10,733.96             | 9,442.00              | 40.04            | 40.18         | 91.30                 | 1,388.09                           | 993.38                             | 1,764.98               | 1,686.34               | 78.64                     | 22.445                       |         |
| 10,800.00                                                    | 9,402.00              | 10,833.96             | 9,442.00              | 40.81            | 40.92         | 91.30                 | 1,488.09                           | 992.96                             | 1,764.57               | 1,684.40               | 80.17                     | 22.009                       |         |
| 10,900.00                                                    | 9,402.00              | 10,933.96             | 9,442.00              | 41.62            | 41.70         | 91.30                 | 1,588.08                           | 992.55                             | 1,764.16               | 1,682.37               | 81.79                     | 21.570                       |         |
| 11,000.00                                                    | 9,402.00              | 11,033.95             | 9,442.00              | 42.46            | 42.52         | 91.30                 | 1,688.08                           | 992.13                             | 1,763.75               | 1,680.28               | 83.47                     | 21.130                       |         |
| 11,100.00                                                    | 9,402.00              | 11,133.95             | 9,442.00              | 43.34            | 43.37         | 91.30                 | 1,788.08                           | 991.71                             | 1,763.34               | 1,678.12               | 85.22                     | 20.691                       |         |
| 11,200.00                                                    | 9,402.00              | 11,233.95             | 9,442.00              | 44.24            | 44.25         | 91.30                 | 1,888.07                           | 991.29                             | 1,762.94               | 1,675.90               | 87.04                     | 20.255                       |         |
| 11,300.00                                                    | 9,402.00              | 11,333.95             | 9,442.00              | 45.17            | 45.17         | 91.30                 | 1,988.07                           | 990.88                             | 1,762.53               | 1,673.62               | 88.91                     | 19.824                       |         |
| 11,400.00                                                    | 9,402.00              | 11,433.94             | 9,442.00              | 46.13            | 46.11         | 91.30                 | 2,088.07                           | 990.46                             | 1,762.12               | 1,671.28               | 90.84                     | 19.399                       |         |
| 11,500.00                                                    | 9,402.00              | 11,533.94             | 9,442.00              | 47.12            | 47.08         | 91.30                 | 2,188.06                           | 990.04                             | 1,761.71               | 1,668.90               | 92.81                     | 18.981                       |         |
| 11,600.00                                                    | 9,402.00              | 11,633.94             | 9,442.00              | 48.13            | 48.07         | 91.30                 | 2,288.06                           | 989.62                             | 1,761.30               | 1,666.46               | 94.84                     | 18.571                       |         |
| 11,700.00                                                    | 9,402.00              | 11,733.94             | 9,442.00              | 49.16            | 49.09         | 91.30                 | 2,388.06                           | 989.21                             | 1,760.89               | 1,663.98               | 96.92                     | 18.169                       |         |
| 11,800.00                                                    | 9,402.00              | 11,833.94             | 9,442.00              | 50.21            | 50.13         | 91.30                 | 2,488.05                           | 988.79                             | 1,760.49               | 1,661.45               | 99.03                     | 17.777                       |         |
| 11,900.00                                                    | 9,402.00              | 11,933.93             | 9,442.00              | 51.28            | 51.19         | 91.30                 | 2,588.05                           | 988.37                             | 1,760.08               | 1,658.89               | 101.19                    | 17.394                       |         |
| 12,000.00                                                    | 9,402.00              | 12,033.93             | 9,442.00              | 52.37            | 52.26         | 91.30                 | 2,688.05                           | 987.95                             | 1,759.67               | 1,656.29               | 103.38                    | 17.022                       |         |
| 12,100.00                                                    | 9,402.00              | 12,133.93             | 9,442.00              | 53.48            | 53.36         | 91.30                 | 2,788.04                           | 987.54                             | 1,759.26               | 1,653.66               | 105.61                    | 16.659                       |         |
| 12,200.00                                                    | 9,402.00              | 12,233.93             | 9,442.00              | 54.61            | 54.47         | 91.30                 | 2,888.04                           | 987.12                             | 1,758.85               | 1,650.99               | 107.87                    | 16.306                       |         |
| 12,300.00                                                    | 9,402.00              | 12,333.92             | 9,442.00              | 55.75            | 55.60         | 91.30                 | 2,988.04                           | 986.70                             | 1,758.45               | 1,648.29               | 110.16                    | 15.963                       |         |
| 12,400.00                                                    | 9,402.00              | 12,433.92             | 9,442.00              | 56.90            | 56.75         | 91.30                 | 3,088.04                           | 986.29                             | 1,758.04               | 1,645.56               | 112.48                    | 15.630                       |         |
| 12,500.00                                                    | 9,402.00              | 12,533.92             | 9,442.00              | 58.07            | 57.91         | 91.30                 | 3,188.03                           | 985.87                             | 1,757.63               | 1,642.80               | 114.83                    | 15.307                       |         |
| 12,600.00                                                    | 9,402.00              | 12,633.92             | 9,442.00              | 59.25            | 59.08         | 91.30                 | 3,288.03                           | 985.45                             | 1,757.22               | 1,640.02               | 117.20                    | 14.993                       |         |
| 12,700.00                                                    | 9,402.00              | 12,733.91             | 9,442.00              | 60.44            | 60.27         | 91.30                 | 3,388.03                           | 985.04                             | 1,756.82               | 1,637.22               | 119.60                    | 14.689                       |         |
| 12,800.00                                                    | 9,402.00              | 12,833.91             | 9,442.00              | 61.64            | 61.46         | 91.30                 | 3,488.02                           | 984.62                             | 1,756.41               | 1,634.39               | 122.02                    | 14.394                       |         |
| 12,900.00                                                    | 9,402.00              | 12,933.91             | 9,442.00              | 62.86            | 62.67         | 91.31                 | 3,588.02                           | 984.21                             | 1,756.00               | 1,631.54               | 124.46                    | 14.109                       |         |
| 13,000.00                                                    | 9,402.00              | 13,033.91             | 9,442.00              | 64.08            | 63.89         | 91.31                 | 3,688.02                           | 983.79                             | 1,755.60               | 1,628.67               | 126.92                    | 13.832                       |         |
| 13,100.00                                                    | 9,402.00              | 13,133.90             | 9,442.00              | 65.32            | 65.12         | 91.31                 | 3,788.01                           | 983.37                             | 1,755.19               | 1,625.79               | 129.40                    | 13.564                       |         |
| 13,200.00                                                    | 9,402.00              | 13,233.90             | 9,442.00              | 66.56            | 66.35         | 91.31                 | 3,888.01                           | 982.96                             | 1,754.78               | 1,622.88               | 131.90                    | 13.304                       |         |
| 13,300.00                                                    | 9,402.00              | 13,333.90             | 9,442.00              | 67.81            | 67.60         | 91.31                 | 3,988.01                           | 982.54                             | 1,754.38               | 1,619.96               | 134.42                    | 13.052                       |         |
| 13,400.00                                                    | 9,402.00              | 13,433.90             | 9,442.00              | 69.07            | 68.86         | 91.31                 | 4,088.00                           | 982.13                             | 1,753.97               | 1,617.02               | 136.95                    | 12.807                       |         |
| 13,500.00                                                    | 9,402.00              | 13,533.90             | 9,442.00              | 70.34            | 70.12         | 91.31                 | 4,188.00                           | 981.71                             | 1,753.56               | 1,614.07               | 139.50                    | 12.571                       |         |
| 13,600.00                                                    | 9,402.00              | 13,633.89             | 9,442.00              | 71.62            | 71.39         | 91.31                 | 4,288.00                           | 981.29                             | 1,753.16               | 1,611.10               | 142.06                    | 12.341                       |         |
| 13,700.00                                                    | 9,402.00              | 13,733.89             | 9,442.00              | 72.90            | 72.67         | 91.31                 | 4,387.99                           | 980.88                             | 1,752.75               | 1,608.12               | 144.63                    | 12.119                       |         |
| 13,800.00                                                    | 9,402.00              | 13,833.89             | 9,442.00              | 74.19            | 73.95         | 91.31                 | 4,487.99                           | 980.46                             | 1,752.34               | 1,605.13               | 147.22                    | 11.903                       |         |
| 13,900.00                                                    | 9,402.00              | 13,933.89             | 9,442.00              | 75.48            | 75.24         | 91.31                 | 4,587.99                           | 980.05                             | 1,751.94               | 1,602.12               | 149.82                    | 11.694                       |         |
| 14,000.00                                                    | 9,402.00              | 14,033.88             | 9,442.00              | 76.78            | 76.54         | 91.31                 | 4,687.98                           | 979.63                             | 1,751.53               | 1,599.10               | 152.43                    | 11.491                       |         |
| 14,094.49                                                    | 9,402.00              | 14,122.82             | 9,442.00              | 78.01            | 77.70         | 91.31                 | 4,776.92                           | 979.26                             | 1,751.16               | 1,596.33               | 154.83                    | 11.310                       |         |
| 14,100.00                                                    | 9,402.00              | 14,122.82             | 9,442.00              | 78.09            | 77.70         | 91.31                 | 4,776.92                           | 979.26                             | 1,751.16               | 1,596.26               | 154.90                    | 11.305                       |         |
| 14,102.76                                                    | 9,402.00              | 14,122.82             | 9,442.00              | 78.15            | 77.70         | 91.31                 | 4,776.92                           | 979.26                             | 1,751.17               | 1,596.23               | 154.94                    | 11.302 SF                    |         |

# Anticollision Report

**Company:** Marathon Oil Permian, LLC  
**Project:** Eddy County, NM (NAD27)  
**Reference Site:** Mariner Fee  
**Site Error:** 0.00 usft  
**Reference Well:** 23-28-20 WXY #11H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OH  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Output errors are at**  
**Database:**  
**Offset TVD Reference:**

**Well 23-28-20 WXY #11H**  
 KB = 28' @ 3103.00usft (Patterson 244)  
 KB = 28' @ 3103.00usft (Patterson 244)  
 Grid  
 Minimum Curvature  
 2.00 sigma  
 Midland District  
 Offset Datum

| Offset Design                                     |                       |                       |                       |                  |               |                         |                               |                         |                         |                           |                   |                           | Offset Site Error: |
|---------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-------------------------|-------------------------------|-------------------------|-------------------------|---------------------------|-------------------|---------------------------|--------------------|
| Mariner Offsets - Cronos Fee #1 - OH - As-Drilled |                       |                       |                       |                  |               |                         |                               |                         |                         |                           |                   |                           | 0.00 usft          |
| Survey Program: 138-INC-ONLY                      |                       |                       |                       |                  |               |                         |                               |                         |                         |                           |                   |                           | Offset Well Error: |
| Reference                                         |                       |                       |                       |                  |               |                         |                               |                         |                         |                           |                   |                           | 0.00 usft          |
| Measured Depth (usft)                             | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Footcandle (") | Offset Wellbore Centre (usft) | Reference Centre (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor | Warning                   |                    |
| 10,400.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 37.97            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 2,063.92                | 1,792.78                  | 271.14            | 7.612                     |                    |
| 10,500.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 38.62            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,964.01                | 1,692.22                  | 271.80            | 7.226                     |                    |
| 10,600.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 39.31            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,864.12                | 1,591.63                  | 272.49            | 6.841                     |                    |
| 10,700.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 40.04            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,764.23                | 1,491.00                  | 273.23            | 6.457                     |                    |
| 10,800.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 40.81            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,664.36                | 1,390.35                  | 274.00            | 6.074                     |                    |
| 10,900.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 41.62            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,564.50                | 1,289.68                  | 274.82            | 5.693                     |                    |
| 11,000.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 42.46            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,464.66                | 1,189.00                  | 275.67            | 5.313                     |                    |
| 11,100.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 43.34            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,364.85                | 1,088.30                  | 276.55            | 4.935                     |                    |
| 11,200.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 44.24            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,265.07                | 987.61                    | 277.46            | 4.559                     |                    |
| 11,300.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 45.17            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,165.32                | 886.92                    | 278.40            | 4.186                     |                    |
| 11,400.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 46.13            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 1,065.62                | 786.25                    | 279.37            | 3.814                     |                    |
| 11,500.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 47.12            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 965.99                  | 685.62                    | 280.37            | 3.445                     |                    |
| 11,600.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 48.13            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 866.44                  | 585.05                    | 281.38            | 3.079                     |                    |
| 11,700.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 49.16            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 767.00                  | 484.58                    | 282.42            | 2.716                     |                    |
| 11,800.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 50.21            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 667.73                  | 384.25                    | 283.49            | 2.355                     |                    |
| 11,900.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 51.28            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 568.72                  | 284.16                    | 284.57            | 1.999                     |                    |
| 12,000.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 52.37            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 470.13                  | 184.47                    | 285.67            | 1.646                     |                    |
| 12,100.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 53.48            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 372.30                  | 85.51                     | 286.78            | 1.298 Level 3             |                    |
| 12,200.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 54.61            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 275.01                  | -11.91                    | 287.92            | 0.959 Level 1             |                    |
| 12,300.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 55.75            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 183.74                  | -105.32                   | 289.07            | 0.636 Level 1             |                    |
| 12,400.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 56.90            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 106.49                  | -183.74                   | 290.23            | 0.367 Level 1             |                    |
| 12,462.11                                         | 9,402.00              | 9,374.27              | 9,373.00              | 57.63            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 86.50                   | -204.46                   | 290.96            | 0.297 Level 1, CC, ES, SF |                    |
| 12,500.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 58.07            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 94.43                   | -196.97                   | 291.41            | 0.324 Level 1             |                    |
| 12,600.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 59.25            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 162.78                  | -129.82                   | 292.59            | 0.556 Level 1             |                    |
| 12,700.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 60.44            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 253.13                  | -40.67                    | 293.79            | 0.862 Level 1             |                    |
| 12,800.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 61.64            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 348.79                  | 53.78                     | 295.01            | 1.182 Level 2             |                    |
| 12,900.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 62.86            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 446.35                  | 150.12                    | 296.23            | 1.507                     |                    |
| 13,000.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 64.08            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 544.80                  | 247.34                    | 297.46            | 1.832                     |                    |
| 13,100.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 65.32            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 643.73                  | 345.03                    | 298.70            | 2.155                     |                    |
| 13,200.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 66.56            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 742.94                  | 442.99                    | 299.95            | 2.477                     |                    |
| 13,300.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 67.81            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 842.34                  | 541.13                    | 301.21            | 2.797                     |                    |
| 13,400.00                                         | 9,402.00              | 9,374.27              | 9,373.00              | 69.07            | 233.82        | 90.00                   | 3,142.83                      | -684.79                 | 941.87                  | 639.39                    | 302.48            | 3.114                     |                    |
| 13,500.00                                         | 9,402.00              | 9,391.00              | 9,389.71              | 70.34            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,041.62                | 741.95                    | 299.68            | 3.476                     |                    |
| 13,600.00                                         | 9,402.00              | 9,391.00              | 9,389.71              | 71.62            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,141.30                | 840.35                    | 300.94            | 3.792                     |                    |
| 13,700.00                                         | 9,402.00              | 9,391.00              | 9,389.71              | 72.90            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,241.02                | 938.81                    | 302.21            | 4.106                     |                    |
| 13,800.00                                         | 9,402.00              | 9,391.00              | 9,389.71              | 74.19            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,340.79                | 1,037.30                  | 303.49            | 4.418                     |                    |
| 13,900.00                                         | 9,402.00              | 9,391.00              | 9,389.71              | 75.48            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,440.59                | 1,135.81                  | 304.77            | 4.727                     |                    |
| 14,000.00                                         | 9,402.00              | 9,391.00              | 9,389.71              | 76.78            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,540.41                | 1,234.35                  | 306.06            | 5.033                     |                    |
| 14,100.00                                         | 9,402.00              | 9,391.00              | 9,389.71              | 78.09            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,640.26                | 1,332.90                  | 307.36            | 5.337                     |                    |
| 14,102.76                                         | 9,402.00              | 9,391.00              | 9,389.71              | 78.15            | 234.16        | 100.93                  | 3,142.83                      | -684.79                 | 1,643.01                | 1,335.62                  | 307.39            | 5.345                     |                    |

# Anticollision Report

**Company:** Marathon Oil Permian, LLC  
**Project:** Eddy County, NM (NAD27)  
**Reference Site:** Mariner Fee  
**Site Error:** 0.00 usft  
**Reference Well:** 23-28-20 WXY #11H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OH  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well 23-28-20 WXY #11H  
**TVD Reference:** KB = 28' @ 3103.00usft (Patterson 244)  
**MD Reference:** KB = 28' @ 3103.00usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** Midland District  
**Offset TVD Reference:** Offset Datum

| Offset Design Mariner Offsets - Lackey #1 SWD - OH - As-Drilled |                       |                       |                       |                  |               |                      |                               |                               |                        |                         |                           |                           |  | Offset Site Error: 0.00 usft |
|-----------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|----------------------|-------------------------------|-------------------------------|------------------------|-------------------------|---------------------------|---------------------------|--|------------------------------|
| Survey Program: 730-INC-ONLY                                    |                       |                       |                       |                  |               |                      |                               |                               |                        |                         |                           |                           |  | Offset Well Error: 0.00 usft |
| Reference                                                       | Offset                | Borehole Axis         |                       |                  |               | Distance             |                               |                               |                        |                         |                           |                           |  | Warning                      |
| Measured Depth (usft)                                           | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolbit (") | Offset Wellbore Centre (usft) | Offset Wellbore Centre (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor         |  |                              |
| 9,200.00                                                        | 9,145.76              | 9,119.48              | 9,117.76              | 34.06            | 249.54        | 11.58                | 2,049.21                      | -687.30                       | 2,081.80               | 1,843.39                | 238.41                    | 8.732                     |  |                              |
| 9,300.00                                                        | 9,223.67              | 9,197.39              | 9,195.67              | 34.28            | 251.22        | 10.33                | 2,049.21                      | -687.30                       | 2,019.99               | 1,809.20                | 210.79                    | 9.583                     |  |                              |
| 9,400.00                                                        | 9,289.66              | 9,263.38              | 9,261.66              | 34.45            | 252.64        | 10.22                | 2,049.21                      | -687.30                       | 1,945.54               | 1,768.00                | 177.54                    | 10.958                    |  |                              |
| 9,500.00                                                        | 9,341.73              | 9,315.45              | 9,313.73              | 34.59            | 253.76        | 11.27                | 2,049.21                      | -687.30                       | 1,860.71               | 1,719.04                | 141.67                    | 13.134                    |  |                              |
| 9,600.00                                                        | 9,378.29              | 9,352.01              | 9,350.29              | 34.73            | 254.55        | 14.60                | 2,049.21                      | -687.30                       | 1,768.08               | 1,655.32                | 112.76                    | 15.680                    |  |                              |
| 9,700.00                                                        | 9,398.25              | 9,371.97              | 9,370.25              | 34.91            | 254.98        | 28.07                | 2,049.21                      | -687.30                       | 1,670.44               | 1,528.76                | 141.67                    | 11.791                    |  |                              |
| 9,800.00                                                        | 9,402.00              | 9,375.72              | 9,374.00              | 35.15            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,570.73               | 1,281.20                | 289.53                    | 5.425                     |  |                              |
| 9,900.00                                                        | 9,402.00              | 9,375.72              | 9,374.00              | 35.47            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,470.89               | 1,181.01                | 289.87                    | 5.074                     |  |                              |
| 10,000.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 35.86            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,371.06               | 1,080.79                | 290.27                    | 4.723                     |  |                              |
| 10,100.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 36.31            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,271.26               | 980.54                  | 290.72                    | 4.373                     |  |                              |
| 10,200.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 36.81            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,171.50               | 880.27                  | 291.23                    | 4.023                     |  |                              |
| 10,300.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 37.37            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,071.78               | 779.99                  | 291.79                    | 3.673                     |  |                              |
| 10,400.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 37.97            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 972.12                 | 679.73                  | 292.39                    | 3.325                     |  |                              |
| 10,500.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 38.62            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 872.53                 | 579.49                  | 293.04                    | 2.978                     |  |                              |
| 10,600.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 39.31            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 773.06                 | 479.32                  | 293.74                    | 2.632                     |  |                              |
| 10,700.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 40.04            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 673.74                 | 379.26                  | 294.46                    | 2.288                     |  |                              |
| 10,800.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 40.81            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 574.65                 | 279.40                  | 295.25                    | 1.946                     |  |                              |
| 10,900.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 41.62            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 475.94                 | 179.88                  | 296.07                    | 1.608                     |  |                              |
| 11,000.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 42.46            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 377.92                 | 81.01                   | 296.91                    | 1.273 Level 3             |  |                              |
| 11,100.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 43.34            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 281.29                 | -16.50                  | 297.80                    | 0.945 Level 1             |  |                              |
| 11,200.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 44.24            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 188.22                 | -110.49                 | 298.71                    | 0.630 Level 1             |  |                              |
| 11,300.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 45.17            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 108.30                 | -191.35                 | 299.65                    | 0.361 Level 1             |  |                              |
| 11,368.49                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 45.83            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 83.89                  | -216.42                 | 300.31                    | 0.279 Level 1, CC, ES, SF |  |                              |
| 11,400.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 46.13            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 89.61                  | -211.01                 | 300.62                    | 0.298 Level 1             |  |                              |
| 11,500.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 47.12            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 155.99                 | -145.63                 | 301.61                    | 0.517 Level 1             |  |                              |
| 11,600.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 48.13            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 246.24                 | -56.39                  | 302.63                    | 0.814 Level 1             |  |                              |
| 11,700.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 49.16            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 341.96                 | 38.29                   | 303.67                    | 1.126 Level 2             |  |                              |
| 11,800.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 50.21            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 439.59                 | 134.85                  | 304.73                    | 1.443 Level 3             |  |                              |
| 11,900.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 51.28            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 538.09                 | 232.27                  | 305.81                    | 1.760                     |  |                              |
| 12,000.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 52.37            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 637.06                 | 330.14                  | 306.91                    | 2.076                     |  |                              |
| 12,100.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 53.48            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 736.30                 | 428.27                  | 308.03                    | 2.390                     |  |                              |
| 12,200.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 54.61            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 835.73                 | 526.56                  | 309.16                    | 2.703                     |  |                              |
| 12,300.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 55.75            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 935.28                 | 624.96                  | 310.31                    | 3.014                     |  |                              |
| 12,400.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 56.90            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,034.91               | 723.44                  | 311.48                    | 3.323                     |  |                              |
| 12,500.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 58.07            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,134.61               | 821.96                  | 312.65                    | 3.629                     |  |                              |
| 12,600.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 59.25            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,234.36               | 920.52                  | 313.84                    | 3.933                     |  |                              |
| 12,700.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 60.44            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,334.15               | 1,019.11                | 315.04                    | 4.235                     |  |                              |
| 12,800.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 61.64            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,433.96               | 1,117.71                | 316.25                    | 4.534                     |  |                              |
| 12,900.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 62.86            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,533.80               | 1,216.33                | 317.48                    | 4.831                     |  |                              |
| 13,000.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 64.08            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,633.66               | 1,314.96                | 318.71                    | 5.126                     |  |                              |
| 13,100.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 65.32            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,733.54               | 1,413.59                | 319.95                    | 5.418                     |  |                              |
| 13,200.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 66.56            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,833.43               | 1,512.23                | 321.20                    | 5.708                     |  |                              |
| 13,300.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 67.81            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 1,933.33               | 1,610.87                | 322.46                    | 5.996                     |  |                              |
| 13,400.00                                                       | 9,402.00              | 9,375.72              | 9,374.00              | 69.07            | 255.06        | 90.00                | 2,049.21                      | -687.30                       | 2,033.24               | 1,709.51                | 323.73                    | 6.281                     |  |                              |

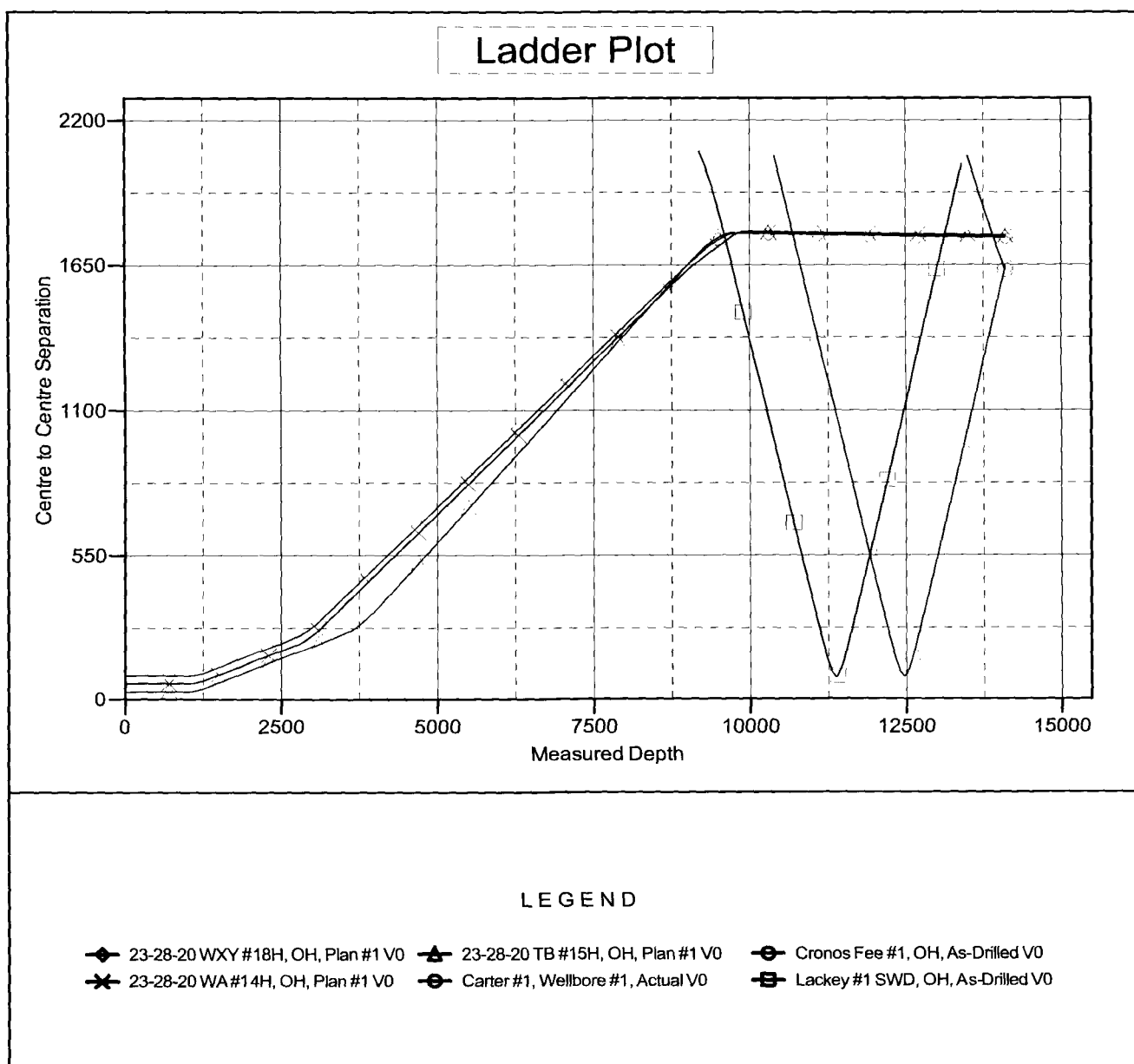
# Anticollision Report

**Company:** Marathon Oil Permian, LLC  
**Project:** Eddy County, NM (NAD27)  
**Reference Site:** Mariner Fee  
**Site Error:** 0.00 usft  
**Reference Well:** 23-28-20 WXY #11H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OH  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well 23-28-20 WXY #11H  
**TVD Reference:** KB = 28' @ 3103.00usft (Patterson 244)  
**MD Reference:** KB = 28' @ 3103.00usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** Midland District  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to KB = 28' @ 3103.00usft (Patterson 24)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 23-28-20 WXY #11H  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.12"



## Anticollision Report

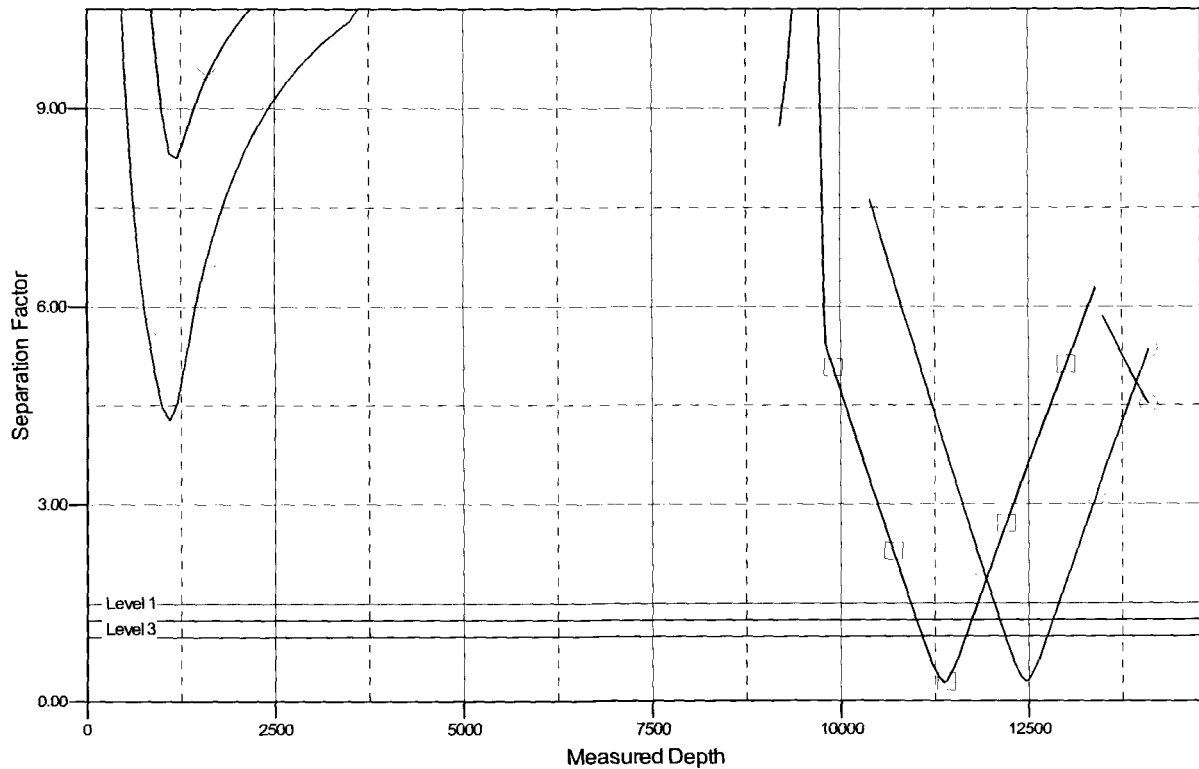
**Company:** Marathon Oil Permian, LLC  
**Project:** Eddy County, NM (NAD27)  
**Reference Site:** Mariner Fee  
**Site Error:** 0.00 usft  
**Reference Well:** 23-28-20 WXY #11H  
**Well Error:** 0.00 usft  
**Reference Wellbore:** OH  
**Reference Design:** Plan #1

**Local Co-ordinate Reference:** Well 23-28-20 WXY #11H  
**TVD Reference:** KB = 28' @ 3103.00usft (Patterson 244)  
**MD Reference:** KB = 28' @ 3103.00usft (Patterson 244)  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature  
**Output errors are at:** 2.00 sigma  
**Database:** Midland District  
**Offset TVD Reference:** Offset Datum

Reference Depths are relative to KB = 28' @ 3103.00usft (Patterson 24)  
 Offset Depths are relative to Offset Datum  
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: 23-28-20 WXY #11H  
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30  
 Grid Convergence at Surface is: 0.12°

### Separation Factor Plot



### LEGEND

- ◆ 23-28-20 WXY #18H, OH, Plan #1 V0
- ▲ 23-28-20 TB #15H, OH, Plan #1 V0
- Cronos Fee #1, OH, As-Drilled V0
- ✕ 23-28-20 WA #14H, OH, Plan #1 V0
- Carter #1, Wellbore #1, Actual V0
- Lackey #1 SWD, OH, As-Drilled V0