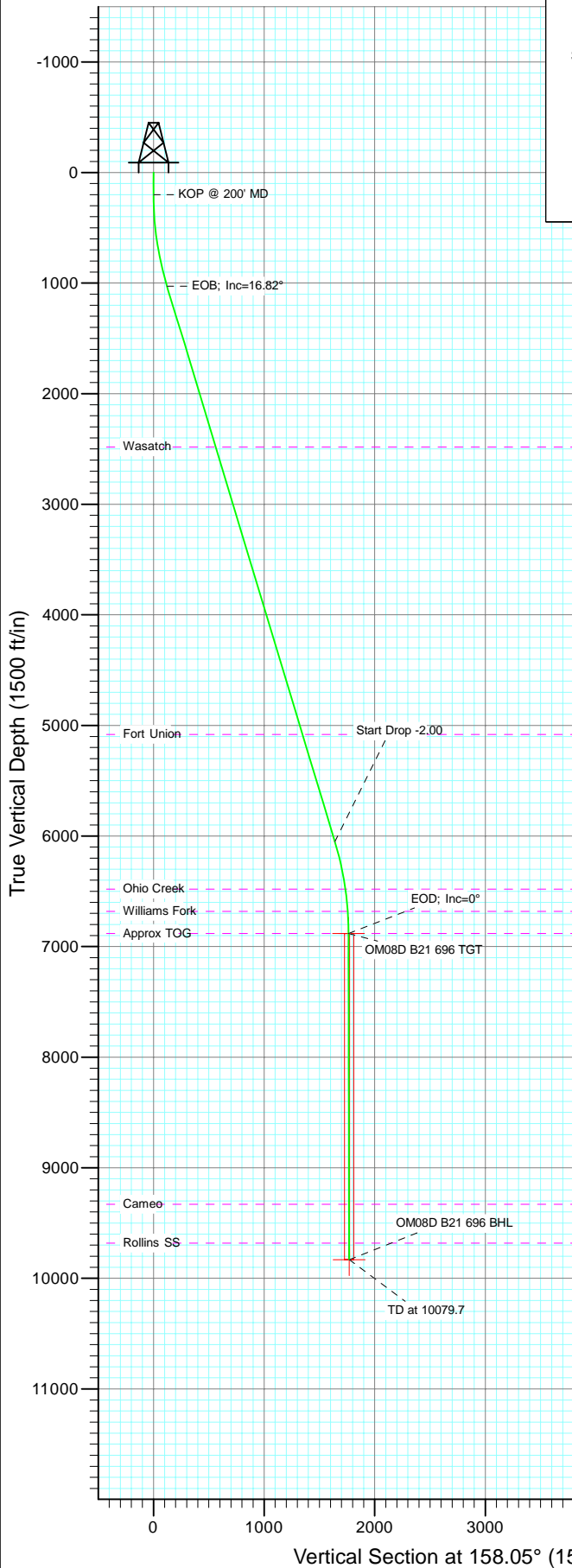
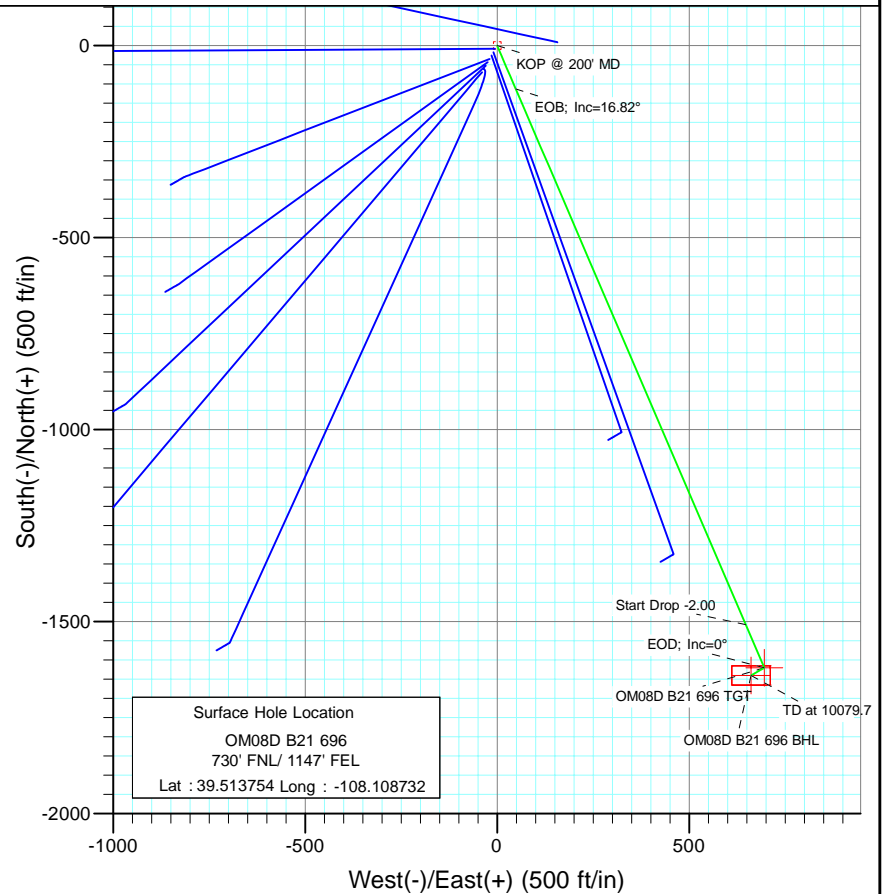


Project: Garfield County
 Site: NENE S21-T6S-R96W (B21 696 Pad)
 Well: OM08D B21 696
 Wellbore: DD
 Design: Plan #1

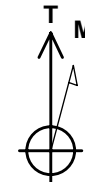


| SECTION DETAILS | | | | | | | | | | |
|-----------------|---------|-------|--------|--------|---------|-------|------|--------|--------|-------------------|
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 1040.8 | 16.82 | 156.76 | 1028.8 | -112.6 | 48.3 | 2.00 | 156.76 | 122.5 | |
| 4 | 6288.6 | 16.82 | 156.76 | 6052.2 | -1507.6 | 647.4 | 0.00 | 0.00 | 1640.3 | |
| 5 | 7129.5 | 0.00 | 0.00 | 6881.0 | -1620.2 | 695.8 | 2.00 | 180.00 | 1762.8 | OM08D B21 696 TGT |
| 6 | 7458.7 | 0.82 | 240.07 | 7210.2 | -1621.4 | 693.7 | 0.25 | 240.07 | 1763.1 | |
| 7 | 10079.7 | 0.82 | 240.07 | 9831.0 | -1640.2 | 661.1 | 0.00 | 0.00 | 1768.4 | OM08D B21 696 BHL |



Surface Hole Location
 OM08D B21 696
 730' FNL/ 1147' FEL
 Lat : 39.513754 Long : -108.108732

Bottom Hole Location
 OM08D B21 696
 2379' FNL/ 487' FEL
 Lat : 39.509251
 Long. : -108.106389



Azimuths to True North
 Magnetic North: 10.45°

Magnetic Field
 Strength: 52312.4snT
 Dip Angle: 65.76°
 Date: 11/30/2010
 Model: IGRF200510

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|--------|---------------|
| 2481.0 | 2557.9 | Wasatch |
| 5081.0 | 5274.1 | Fort Union |
| 6481.0 | 6728.1 | Ohio Creek |
| 6681.0 | 6929.3 | Williams Fork |
| 6881.0 | 7129.5 | Approx TOG |
| 9331.0 | 9579.7 | Cameo |
| 9681.0 | 9929.7 | Rollins SS |

DESIGN DETAILS: Plan #1

1055XX; BH
 KBE @ 8293.0ft (Original Well Elev)

| Target | Azimuth | Origin | N/S | E/W | From TVD |
|-------------------|---------|--------|-----|-----|----------|
| OM08D B21 696 BHL | 158.05 | Slot | 0.0 | 0.0 | 0.0 |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Company: | Berry Petroleum Company (NAD 83) | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Project: | Garfield County | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site: | NENE S21-T6S-R96W (B21 696 Pad) | North Reference: | True |
| Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | Garfield County | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Central Zone | | |

| | | | | |
|------------------------------|---------------------------------|---------------------|-----------------|----------------------------------|
| Site | NENE S21-T6S-R96W (B21 696 Pad) | | | |
| Site Position: | | Northing: | 1,622,587.75 ft | Latitude: 39.513778 |
| From: | Lat/Long | Easting: | 2,264,263.59 ft | Longitude: -108.108174 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: -1.64 ° |

| | | | | |
|-----------------------------|---------------|--------|----------------------------|-----------------|
| Well | OM08D B21 696 | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,622,583.52 ft |
| | +E/-W | 0.0 ft | Easting: | 2,264,105.97 ft |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft |
| | | | Ground Level: | 8,278.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF200510 | 11/30/2010 | 10.45 | 65.76 | 52,312 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 158.05 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|-------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,040.8 | 16.82 | 156.76 | 1,028.8 | -112.6 | 48.3 | 2.00 | 2.00 | 0.00 | 156.76 | |
| 6,288.6 | 16.82 | 156.76 | 6,052.2 | -1,507.6 | 647.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,129.5 | 0.00 | 0.00 | 6,881.0 | -1,620.2 | 695.8 | 2.00 | -2.00 | 0.00 | 180.00 | OM08D B21 696 TGT |
| 7,458.7 | 0.82 | 240.07 | 7,210.2 | -1,621.4 | 693.7 | 0.25 | 0.25 | -36.43 | 240.07 | |
| 10,079.7 | 0.82 | 240.07 | 9,831.0 | -1,640.2 | 661.1 | 0.00 | 0.00 | 0.00 | 0.00 | OM08D B21 696 BHL |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Company: | Berry Petroleum Company (NAD 83) | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Project: | Garfield County | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site: | NENE S21-T6S-R96W (B21 696 Pad) | North Reference: | True |
| Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 30.0 | 0.00 | 0.00 | 30.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 60.0 | 0.00 | 0.00 | 60.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 90.0 | 0.00 | 0.00 | 90.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 120.0 | 0.00 | 0.00 | 120.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 150.0 | 0.00 | 0.00 | 150.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 180.0 | 0.00 | 0.00 | 180.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 200' MD |
| 210.0 | 0.20 | 156.76 | 210.0 | 0.0 | 0.0 | 0.0 | 2.00 | 2.00 | |
| 240.0 | 0.80 | 156.76 | 240.0 | -0.3 | 0.1 | 0.3 | 2.00 | 2.00 | |
| 270.0 | 1.40 | 156.76 | 270.0 | -0.8 | 0.3 | 0.9 | 2.00 | 2.00 | |
| 300.0 | 2.00 | 156.76 | 300.0 | -1.6 | 0.7 | 1.7 | 2.00 | 2.00 | |
| 330.0 | 2.60 | 156.76 | 330.0 | -2.7 | 1.2 | 2.9 | 2.00 | 2.00 | |
| 360.0 | 3.20 | 156.76 | 359.9 | -4.1 | 1.8 | 4.5 | 2.00 | 2.00 | |
| 390.0 | 3.80 | 156.76 | 389.9 | -5.8 | 2.5 | 6.3 | 2.00 | 2.00 | |
| 420.0 | 4.40 | 156.76 | 419.8 | -7.8 | 3.3 | 8.4 | 2.00 | 2.00 | |
| 450.0 | 5.00 | 156.76 | 449.7 | -10.0 | 4.3 | 10.9 | 2.00 | 2.00 | |
| 480.0 | 5.60 | 156.76 | 479.6 | -12.6 | 5.4 | 13.7 | 2.00 | 2.00 | |
| 510.0 | 6.20 | 156.76 | 509.4 | -15.4 | 6.6 | 16.8 | 2.00 | 2.00 | |
| 540.0 | 6.80 | 156.76 | 539.2 | -18.5 | 8.0 | 20.1 | 2.00 | 2.00 | |
| 570.0 | 7.40 | 156.76 | 569.0 | -21.9 | 9.4 | 23.9 | 2.00 | 2.00 | |
| 600.0 | 8.00 | 156.76 | 598.7 | -25.6 | 11.0 | 27.9 | 2.00 | 2.00 | |
| 630.0 | 8.60 | 156.76 | 628.4 | -29.6 | 12.7 | 32.2 | 2.00 | 2.00 | |
| 660.0 | 9.20 | 156.76 | 658.0 | -33.9 | 14.5 | 36.8 | 2.00 | 2.00 | |
| 690.0 | 9.80 | 156.76 | 687.6 | -38.4 | 16.5 | 41.8 | 2.00 | 2.00 | |
| 720.0 | 10.40 | 156.76 | 717.1 | -43.2 | 18.6 | 47.1 | 2.00 | 2.00 | |
| 750.0 | 11.00 | 156.76 | 746.6 | -48.4 | 20.8 | 52.6 | 2.00 | 2.00 | |
| 780.0 | 11.60 | 156.76 | 776.0 | -53.8 | 23.1 | 58.5 | 2.00 | 2.00 | |
| 810.0 | 12.20 | 156.76 | 805.4 | -59.4 | 25.5 | 64.7 | 2.00 | 2.00 | |
| 840.0 | 12.80 | 156.76 | 834.7 | -65.4 | 28.1 | 71.2 | 2.00 | 2.00 | |
| 870.0 | 13.40 | 156.76 | 863.9 | -71.7 | 30.8 | 78.0 | 2.00 | 2.00 | |
| 900.0 | 14.00 | 156.76 | 893.1 | -78.2 | 33.6 | 85.1 | 2.00 | 2.00 | |
| 930.0 | 14.60 | 156.76 | 922.1 | -85.0 | 36.5 | 92.5 | 2.00 | 2.00 | |
| 960.0 | 15.20 | 156.76 | 951.1 | -92.1 | 39.5 | 100.2 | 2.00 | 2.00 | |
| 990.0 | 15.80 | 156.76 | 980.0 | -99.5 | 42.7 | 108.2 | 2.00 | 2.00 | |
| 1,020.0 | 16.40 | 156.76 | 1,008.8 | -107.1 | 46.0 | 116.5 | 2.00 | 2.00 | |
| 1,040.8 | 16.82 | 156.76 | 1,028.8 | -112.6 | 48.3 | 122.5 | 2.00 | 2.00 | EOB; Inc=16.82° |
| 1,050.0 | 16.82 | 156.76 | 1,037.6 | -115.0 | 49.4 | 125.1 | 0.00 | 0.00 | |
| 1,080.0 | 16.82 | 156.76 | 1,066.3 | -123.0 | 52.8 | 133.8 | 0.00 | 0.00 | |
| 1,110.0 | 16.82 | 156.76 | 1,095.0 | -131.0 | 56.2 | 142.5 | 0.00 | 0.00 | |
| 1,140.0 | 16.82 | 156.76 | 1,123.7 | -138.9 | 59.7 | 151.2 | 0.00 | 0.00 | |
| 1,170.0 | 16.82 | 156.76 | 1,152.5 | -146.9 | 63.1 | 159.8 | 0.00 | 0.00 | |
| 1,200.0 | 16.82 | 156.76 | 1,181.2 | -154.9 | 66.5 | 168.5 | 0.00 | 0.00 | |
| 1,230.0 | 16.82 | 156.76 | 1,209.9 | -162.9 | 69.9 | 177.2 | 0.00 | 0.00 | |
| 1,260.0 | 16.82 | 156.76 | 1,238.6 | -170.8 | 73.4 | 185.9 | 0.00 | 0.00 | |
| 1,290.0 | 16.82 | 156.76 | 1,267.3 | -178.8 | 76.8 | 194.5 | 0.00 | 0.00 | |
| 1,320.0 | 16.82 | 156.76 | 1,296.0 | -186.8 | 80.2 | 203.2 | 0.00 | 0.00 | |
| 1,350.0 | 16.82 | 156.76 | 1,324.8 | -194.8 | 83.6 | 211.9 | 0.00 | 0.00 | |
| 1,380.0 | 16.82 | 156.76 | 1,353.5 | -202.7 | 87.1 | 220.6 | 0.00 | 0.00 | |
| 1,410.0 | 16.82 | 156.76 | 1,382.2 | -210.7 | 90.5 | 229.3 | 0.00 | 0.00 | |
| 1,440.0 | 16.82 | 156.76 | 1,410.9 | -218.7 | 93.9 | 237.9 | 0.00 | 0.00 | |
| 1,470.0 | 16.82 | 156.76 | 1,439.6 | -226.7 | 97.3 | 246.6 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Company: | Berry Petroleum Company (NAD 83) | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Project: | Garfield County | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site: | NENE S21-T6S-R96W (B21 696 Pad) | North Reference: | True |
| Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 1,500.0 | 16.82 | 156.76 | 1,468.3 | -234.6 | 100.8 | 255.3 | 0.00 | 0.00 | |
| 1,530.0 | 16.82 | 156.76 | 1,497.1 | -242.6 | 104.2 | 264.0 | 0.00 | 0.00 | |
| 1,560.0 | 16.82 | 156.76 | 1,525.8 | -250.6 | 107.6 | 272.6 | 0.00 | 0.00 | |
| 1,590.0 | 16.82 | 156.76 | 1,554.5 | -258.6 | 111.0 | 281.3 | 0.00 | 0.00 | |
| 1,620.0 | 16.82 | 156.76 | 1,583.2 | -266.5 | 114.5 | 290.0 | 0.00 | 0.00 | |
| 1,650.0 | 16.82 | 156.76 | 1,611.9 | -274.5 | 117.9 | 298.7 | 0.00 | 0.00 | |
| 1,680.0 | 16.82 | 156.76 | 1,640.6 | -282.5 | 121.3 | 307.4 | 0.00 | 0.00 | |
| 1,710.0 | 16.82 | 156.76 | 1,669.4 | -290.5 | 124.7 | 316.0 | 0.00 | 0.00 | |
| 1,740.0 | 16.82 | 156.76 | 1,698.1 | -298.4 | 128.2 | 324.7 | 0.00 | 0.00 | |
| 1,770.0 | 16.82 | 156.76 | 1,726.8 | -306.4 | 131.6 | 333.4 | 0.00 | 0.00 | |
| 1,800.0 | 16.82 | 156.76 | 1,755.5 | -314.4 | 135.0 | 342.1 | 0.00 | 0.00 | |
| 1,830.0 | 16.82 | 156.76 | 1,784.2 | -322.4 | 138.4 | 350.7 | 0.00 | 0.00 | |
| 1,860.0 | 16.82 | 156.76 | 1,812.9 | -330.3 | 141.9 | 359.4 | 0.00 | 0.00 | |
| 1,890.0 | 16.82 | 156.76 | 1,841.7 | -338.3 | 145.3 | 368.1 | 0.00 | 0.00 | |
| 1,920.0 | 16.82 | 156.76 | 1,870.4 | -346.3 | 148.7 | 376.8 | 0.00 | 0.00 | |
| 1,950.0 | 16.82 | 156.76 | 1,899.1 | -354.3 | 152.1 | 385.4 | 0.00 | 0.00 | |
| 1,980.0 | 16.82 | 156.76 | 1,927.8 | -362.2 | 155.6 | 394.1 | 0.00 | 0.00 | |
| 2,010.0 | 16.82 | 156.76 | 1,956.5 | -370.2 | 159.0 | 402.8 | 0.00 | 0.00 | |
| 2,040.0 | 16.82 | 156.76 | 1,985.3 | -378.2 | 162.4 | 411.5 | 0.00 | 0.00 | |
| 2,070.0 | 16.82 | 156.76 | 2,014.0 | -386.2 | 165.8 | 420.2 | 0.00 | 0.00 | |
| 2,100.0 | 16.82 | 156.76 | 2,042.7 | -394.1 | 169.3 | 428.8 | 0.00 | 0.00 | |
| 2,130.0 | 16.82 | 156.76 | 2,071.4 | -402.1 | 172.7 | 437.5 | 0.00 | 0.00 | |
| 2,160.0 | 16.82 | 156.76 | 2,100.1 | -410.1 | 176.1 | 446.2 | 0.00 | 0.00 | |
| 2,190.0 | 16.82 | 156.76 | 2,128.8 | -418.1 | 179.5 | 454.9 | 0.00 | 0.00 | |
| 2,220.0 | 16.82 | 156.76 | 2,157.6 | -426.0 | 182.9 | 463.5 | 0.00 | 0.00 | |
| 2,250.0 | 16.82 | 156.76 | 2,186.3 | -434.0 | 186.4 | 472.2 | 0.00 | 0.00 | |
| 2,280.0 | 16.82 | 156.76 | 2,215.0 | -442.0 | 189.8 | 480.9 | 0.00 | 0.00 | |
| 2,310.0 | 16.82 | 156.76 | 2,243.7 | -450.0 | 193.2 | 489.6 | 0.00 | 0.00 | |
| 2,340.0 | 16.82 | 156.76 | 2,272.4 | -457.9 | 196.6 | 498.2 | 0.00 | 0.00 | |
| 2,370.0 | 16.82 | 156.76 | 2,301.1 | -465.9 | 200.1 | 506.9 | 0.00 | 0.00 | |
| 2,400.0 | 16.82 | 156.76 | 2,329.9 | -473.9 | 203.5 | 515.6 | 0.00 | 0.00 | |
| 2,430.0 | 16.82 | 156.76 | 2,358.6 | -481.9 | 206.9 | 524.3 | 0.00 | 0.00 | |
| 2,460.0 | 16.82 | 156.76 | 2,387.3 | -489.8 | 210.3 | 533.0 | 0.00 | 0.00 | |
| 2,490.0 | 16.82 | 156.76 | 2,416.0 | -497.8 | 213.8 | 541.6 | 0.00 | 0.00 | |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|--|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| OM08D B21 696 BHL | 0.00 | 0.00 | 9,831.0 | -1,640.2 | 661.1 | 1,620,925.05 | 2,264,719.68 | 39.509251 | -108.106389 |
| - plan misses target center by 7515.8ft at 2490.0ft MD (2416.0 TVD, -497.8 N, 213.8 E) | | | | | | | | | |
| - Rectangle (sides W50.0 H100.0 D0.0) | | | | | | | | | |
| OM08D B21 696 TGT | 0.00 | 0.00 | 6,881.0 | -1,620.2 | 695.8 | 1,620,944.01 | 2,264,754.92 | 39.509306 | -108.106266 |
| - plan misses target center by 4629.1ft at 2490.0ft MD (2416.0 TVD, -497.8 N, 213.8 E) | | | | | | | | | |
| - Point | | | | | | | | | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Company: | Berry Petroleum Company (NAD 83) | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Project: | Garfield County | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site: | NENE S21-T6S-R96W (B21 696 Pad) | North Reference: | True |
| Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 2,500.0 | 16.82 | 156.76 | 2,425.6 | -500.5 | 214.9 | 544.5 | 0.00 | 0.00 | |
| 2,557.9 | 16.82 | 156.76 | 2,481.0 | -515.9 | 221.5 | 561.3 | 0.00 | 0.00 | Wasatch |
| 2,600.0 | 16.82 | 156.76 | 2,521.3 | -527.1 | 226.3 | 573.4 | 0.00 | 0.00 | |
| 2,700.0 | 16.82 | 156.76 | 2,617.0 | -553.6 | 237.7 | 602.4 | 0.00 | 0.00 | |
| 2,800.0 | 16.82 | 156.76 | 2,712.7 | -580.2 | 249.2 | 631.3 | 0.00 | 0.00 | |
| 2,900.0 | 16.82 | 156.76 | 2,808.5 | -606.8 | 260.6 | 660.2 | 0.00 | 0.00 | |
| 3,000.0 | 16.82 | 156.76 | 2,904.2 | -633.4 | 272.0 | 689.1 | 0.00 | 0.00 | |
| 3,100.0 | 16.82 | 156.76 | 2,999.9 | -660.0 | 283.4 | 718.1 | 0.00 | 0.00 | |
| 3,200.0 | 16.82 | 156.76 | 3,095.6 | -686.6 | 294.8 | 747.0 | 0.00 | 0.00 | |
| 3,300.0 | 16.82 | 156.76 | 3,191.4 | -713.1 | 306.2 | 775.9 | 0.00 | 0.00 | |
| 3,400.0 | 16.82 | 156.76 | 3,287.1 | -739.7 | 317.7 | 804.8 | 0.00 | 0.00 | |
| 3,500.0 | 16.82 | 156.76 | 3,382.8 | -766.3 | 329.1 | 833.8 | 0.00 | 0.00 | |
| 3,600.0 | 16.82 | 156.76 | 3,478.5 | -792.9 | 340.5 | 862.7 | 0.00 | 0.00 | |
| 3,700.0 | 16.82 | 156.76 | 3,574.3 | -819.5 | 351.9 | 891.6 | 0.00 | 0.00 | |
| 3,800.0 | 16.82 | 156.76 | 3,670.0 | -846.1 | 363.3 | 920.5 | 0.00 | 0.00 | |
| 3,900.0 | 16.82 | 156.76 | 3,765.7 | -872.6 | 374.7 | 949.5 | 0.00 | 0.00 | |
| 4,000.0 | 16.82 | 156.76 | 3,861.4 | -899.2 | 386.1 | 978.4 | 0.00 | 0.00 | |
| 4,100.0 | 16.82 | 156.76 | 3,957.2 | -925.8 | 397.6 | 1,007.3 | 0.00 | 0.00 | |
| 4,200.0 | 16.82 | 156.76 | 4,052.9 | -952.4 | 409.0 | 1,036.2 | 0.00 | 0.00 | |
| 4,300.0 | 16.82 | 156.76 | 4,148.6 | -979.0 | 420.4 | 1,065.2 | 0.00 | 0.00 | |
| 4,400.0 | 16.82 | 156.76 | 4,244.3 | -1,005.6 | 431.8 | 1,094.1 | 0.00 | 0.00 | |
| 4,500.0 | 16.82 | 156.76 | 4,340.0 | -1,032.1 | 443.2 | 1,123.0 | 0.00 | 0.00 | |
| 4,600.0 | 16.82 | 156.76 | 4,435.8 | -1,058.7 | 454.6 | 1,151.9 | 0.00 | 0.00 | |
| 4,700.0 | 16.82 | 156.76 | 4,531.5 | -1,085.3 | 466.1 | 1,180.8 | 0.00 | 0.00 | |
| 4,800.0 | 16.82 | 156.76 | 4,627.2 | -1,111.9 | 477.5 | 1,209.8 | 0.00 | 0.00 | |
| 4,900.0 | 16.82 | 156.76 | 4,722.9 | -1,138.5 | 488.9 | 1,238.7 | 0.00 | 0.00 | |
| 5,000.0 | 16.82 | 156.76 | 4,818.7 | -1,165.1 | 500.3 | 1,267.6 | 0.00 | 0.00 | |
| 5,100.0 | 16.82 | 156.76 | 4,914.4 | -1,191.6 | 511.7 | 1,296.5 | 0.00 | 0.00 | |
| 5,200.0 | 16.82 | 156.76 | 5,010.1 | -1,218.2 | 523.1 | 1,325.5 | 0.00 | 0.00 | |
| 5,274.1 | 16.82 | 156.76 | 5,081.0 | -1,237.9 | 531.6 | 1,346.9 | 0.00 | 0.00 | Fort Union |
| 5,300.0 | 16.82 | 156.76 | 5,105.8 | -1,244.8 | 534.6 | 1,354.4 | 0.00 | 0.00 | |
| 5,400.0 | 16.82 | 156.76 | 5,201.6 | -1,271.4 | 546.0 | 1,383.3 | 0.00 | 0.00 | |
| 5,500.0 | 16.82 | 156.76 | 5,297.3 | -1,298.0 | 557.4 | 1,412.2 | 0.00 | 0.00 | |
| 5,600.0 | 16.82 | 156.76 | 5,393.0 | -1,324.6 | 568.8 | 1,441.2 | 0.00 | 0.00 | |
| 5,700.0 | 16.82 | 156.76 | 5,488.7 | -1,351.1 | 580.2 | 1,470.1 | 0.00 | 0.00 | |
| 5,800.0 | 16.82 | 156.76 | 5,584.5 | -1,377.7 | 591.6 | 1,499.0 | 0.00 | 0.00 | |
| 5,900.0 | 16.82 | 156.76 | 5,680.2 | -1,404.3 | 603.0 | 1,527.9 | 0.00 | 0.00 | |
| 6,000.0 | 16.82 | 156.76 | 5,775.9 | -1,430.9 | 614.5 | 1,556.9 | 0.00 | 0.00 | |
| 6,100.0 | 16.82 | 156.76 | 5,871.6 | -1,457.5 | 625.9 | 1,585.8 | 0.00 | 0.00 | |
| 6,200.0 | 16.82 | 156.76 | 5,967.3 | -1,484.1 | 637.3 | 1,614.7 | 0.00 | 0.00 | |
| 6,288.6 | 16.82 | 156.76 | 6,052.2 | -1,507.6 | 647.4 | 1,640.3 | 0.00 | 0.00 | Start Drop -2.00 |
| 6,300.0 | 16.59 | 156.76 | 6,063.1 | -1,510.6 | 648.7 | 1,643.6 | 2.00 | -2.00 | |
| 6,400.0 | 14.59 | 156.76 | 6,159.4 | -1,535.3 | 659.3 | 1,670.5 | 2.00 | -2.00 | |
| 6,500.0 | 12.59 | 156.76 | 6,256.6 | -1,556.9 | 668.6 | 1,694.0 | 2.00 | -2.00 | |
| 6,600.0 | 10.59 | 156.76 | 6,354.5 | -1,575.4 | 676.5 | 1,714.0 | 2.00 | -2.00 | |
| 6,700.0 | 8.59 | 156.76 | 6,453.1 | -1,590.7 | 683.1 | 1,730.7 | 2.00 | -2.00 | |
| 6,728.1 | 8.03 | 156.76 | 6,481.0 | -1,594.4 | 684.7 | 1,734.8 | 2.00 | -2.00 | Ohio Creek |
| 6,800.0 | 6.59 | 156.76 | 6,552.3 | -1,602.8 | 688.3 | 1,743.9 | 2.00 | -2.00 | |
| 6,900.0 | 4.59 | 156.76 | 6,651.8 | -1,611.8 | 692.1 | 1,753.6 | 2.00 | -2.00 | |
| 6,929.3 | 4.00 | 156.76 | 6,681.0 | -1,613.8 | 693.0 | 1,755.8 | 2.00 | -2.00 | Williams Fork |
| 7,000.0 | 2.59 | 156.76 | 6,751.6 | -1,617.5 | 694.6 | 1,759.9 | 2.00 | -2.00 | |
| 7,100.0 | 0.59 | 156.76 | 6,851.5 | -1,620.1 | 695.7 | 1,762.7 | 2.00 | -2.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Company: | Berry Petroleum Company (NAD 83) | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Project: | Garfield County | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site: | NENE S21-T6S-R96W (B21 696 Pad) | North Reference: | True |
| Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--|
| 7,129.5 | 0.00 | 0.00 | 6,881.0 | -1,620.2 | 695.8 | 1,762.8 | 2.00 | -2.00 | EOD; Inc=0° - Approx TOG - OM08D B21 696 1 |
| 7,200.0 | 0.18 | 240.07 | 6,951.5 | -1,620.2 | 695.7 | 1,762.8 | 0.25 | 0.25 | |
| 7,300.0 | 0.43 | 240.07 | 7,051.5 | -1,620.5 | 695.2 | 1,762.9 | 0.25 | 0.25 | |
| 7,400.0 | 0.68 | 240.07 | 7,151.5 | -1,621.0 | 694.4 | 1,763.0 | 0.25 | 0.25 | |
| 7,458.7 | 0.82 | 240.07 | 7,210.2 | -1,621.4 | 693.7 | 1,763.1 | 0.25 | 0.25 | |
| 7,500.0 | 0.82 | 240.07 | 7,251.5 | -1,621.7 | 693.2 | 1,763.2 | 0.00 | 0.00 | |
| 7,600.0 | 0.82 | 240.07 | 7,351.5 | -1,622.4 | 691.9 | 1,763.4 | 0.00 | 0.00 | |
| 7,700.0 | 0.82 | 240.07 | 7,451.5 | -1,623.1 | 690.7 | 1,763.6 | 0.00 | 0.00 | |
| 7,800.0 | 0.82 | 240.07 | 7,551.5 | -1,623.8 | 689.5 | 1,763.8 | 0.00 | 0.00 | |
| 7,900.0 | 0.82 | 240.07 | 7,651.5 | -1,624.5 | 688.2 | 1,764.0 | 0.00 | 0.00 | |
| 8,000.0 | 0.82 | 240.07 | 7,751.5 | -1,625.3 | 687.0 | 1,764.2 | 0.00 | 0.00 | |
| 8,100.0 | 0.82 | 240.07 | 7,851.5 | -1,626.0 | 685.7 | 1,764.4 | 0.00 | 0.00 | |
| 8,200.0 | 0.82 | 240.07 | 7,951.5 | -1,626.7 | 684.5 | 1,764.6 | 0.00 | 0.00 | |
| 8,300.0 | 0.82 | 240.07 | 8,051.4 | -1,627.4 | 683.2 | 1,764.8 | 0.00 | 0.00 | |
| 8,400.0 | 0.82 | 240.07 | 8,151.4 | -1,628.1 | 682.0 | 1,765.0 | 0.00 | 0.00 | |
| 8,500.0 | 0.82 | 240.07 | 8,251.4 | -1,628.8 | 680.7 | 1,765.2 | 0.00 | 0.00 | |
| 8,600.0 | 0.82 | 240.07 | 8,351.4 | -1,629.6 | 679.5 | 1,765.4 | 0.00 | 0.00 | |
| 8,700.0 | 0.82 | 240.07 | 8,451.4 | -1,630.3 | 678.2 | 1,765.6 | 0.00 | 0.00 | |
| 8,800.0 | 0.82 | 240.07 | 8,551.4 | -1,631.0 | 677.0 | 1,765.8 | 0.00 | 0.00 | |
| 8,900.0 | 0.82 | 240.07 | 8,651.4 | -1,631.7 | 675.8 | 1,766.0 | 0.00 | 0.00 | |
| 9,000.0 | 0.82 | 240.07 | 8,751.4 | -1,632.4 | 674.5 | 1,766.2 | 0.00 | 0.00 | |
| 9,100.0 | 0.82 | 240.07 | 8,851.4 | -1,633.1 | 673.3 | 1,766.4 | 0.00 | 0.00 | |
| 9,200.0 | 0.82 | 240.07 | 8,951.3 | -1,633.9 | 672.0 | 1,766.6 | 0.00 | 0.00 | |
| 9,300.0 | 0.82 | 240.07 | 9,051.3 | -1,634.6 | 670.8 | 1,766.8 | 0.00 | 0.00 | |
| 9,400.0 | 0.82 | 240.07 | 9,151.3 | -1,635.3 | 669.5 | 1,767.0 | 0.00 | 0.00 | |
| 9,500.0 | 0.82 | 240.07 | 9,251.3 | -1,636.0 | 668.3 | 1,767.2 | 0.00 | 0.00 | |
| 9,579.7 | 0.82 | 240.07 | 9,331.0 | -1,636.6 | 667.3 | 1,767.4 | 0.00 | 0.00 | Cameo |
| 9,600.0 | 0.82 | 240.07 | 9,351.3 | -1,636.7 | 667.0 | 1,767.4 | 0.00 | 0.00 | |
| 9,700.0 | 0.82 | 240.07 | 9,451.3 | -1,637.4 | 665.8 | 1,767.6 | 0.00 | 0.00 | |
| 9,800.0 | 0.82 | 240.07 | 9,551.3 | -1,638.2 | 664.6 | 1,767.8 | 0.00 | 0.00 | |
| 9,900.0 | 0.82 | 240.07 | 9,651.3 | -1,638.9 | 663.3 | 1,768.0 | 0.00 | 0.00 | |
| 9,929.7 | 0.82 | 240.07 | 9,681.0 | -1,639.1 | 662.9 | 1,768.1 | 0.00 | 0.00 | Rollins SS |
| 10,000.0 | 0.82 | 240.07 | 9,751.3 | -1,639.6 | 662.1 | 1,768.2 | 0.00 | 0.00 | |
| 10,079.7 | 0.82 | 240.07 | 9,831.0 | -1,640.2 | 661.1 | 1,768.4 | 0.00 | 0.00 | TD at 10079.7 - OM08D B21 696 BHL |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---------------------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| OM08D B21 696 BHL | 0.00 | 0.00 | 9,831.0 | -1,640.2 | 661.1 | 1,620,925.05 | 2,264,719.68 | 39.509251 | -108.106389 |
| - plan hits target center | | | | | | | | | |
| - Rectangle (sides W50.0 H100.0 D0.0) | | | | | | | | | |
| OM08D B21 696 TGT | 0.00 | 0.00 | 6,881.0 | -1,620.2 | 695.8 | 1,620,944.01 | 2,264,754.92 | 39.509306 | -108.106266 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Company: | Berry Petroleum Company (NAD 83) | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Project: | Garfield County | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site: | NENE S21-T6S-R96W (B21 696 Pad) | North Reference: | True |
| Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Formations | | | | | | |
|---------------------|---------------------|---------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 2,557.9 | 2,481.0 | Wasatch | | 0.00 | | |
| 5,274.1 | 5,081.0 | Fort Union | | 0.00 | | |
| 6,728.1 | 6,481.0 | Ohio Creek | | 0.00 | | |
| 6,929.3 | 6,681.0 | Williams Fork | | 0.00 | | |
| 7,129.5 | 6,881.0 | Approx TOG | | 0.00 | | |
| 9,579.7 | 9,331.0 | Cameo | | 0.00 | | |
| 9,929.7 | 9,681.0 | Rollins SS | | 0.00 | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | | |
| | | +N/-S (ft) | +E/-W (ft) | Comment | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP @ 200' MD | |
| 1,040.8 | 1,028.8 | -112.6 | 48.3 | EOB; Inc=16.82° | |
| 6,288.6 | 6,052.2 | -1,507.6 | 647.4 | Start Drop -2.00 | |
| 7,129.5 | 6,881.0 | -1,620.2 | 695.8 | EOD; Inc=0° | |
| 10,079.7 | 9,831.0 | -1,621.4 | 693.7 | TD at 10079.7 | |

Berry Petroleum Company (NAD 83)

Garfield County

NENE S21-T6S-R96W (B21 696 Pad)

OM08D B21 696

DD

Plan #1

Anticollision Report

01 December, 2010

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| 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 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,399.5ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| Survey Tool Program | | Date | 12/1/2010 | | |
|---------------------|------------|-------------------|-----------|-------------|--|
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 10,079.7 | Plan #1 (DD) | MWD | Geolink MWD | |

| Summary | | | | | | |
|---------------------------------|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|---------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| NENE S21-T6S-R96W (B21 696 Pad) | | | | | | |
| OM02B B21 696 - DD - Plan #1 | 805.6 | 816.1 | 106.5 | 102.8 | 29.329 | CC, ES |
| OM02B B21 696 - DD - Plan #1 | 900.0 | 903.6 | 112.9 | 108.7 | 26.969 | SF |
| OM02C B21 696 - DD - Plan #1 | 235.0 | 234.9 | 9.8 | 9.0 | 12.722 | CC, ES |
| OM02C B21 696 - DD - Plan #1 | 300.0 | 299.7 | 10.1 | 9.1 | 10.122 | SF |
| OM02D B21 696 - DD - Plan #1 | 541.1 | 539.8 | 32.3 | 30.3 | 16.599 | CC, ES |
| OM02D B21 696 - DD - Plan #1 | 600.0 | 597.6 | 33.7 | 31.5 | 15.299 | SF |
| OM07A B21 696 - DD - Plan #1 | 564.4 | 562.6 | 41.2 | 39.1 | 20.144 | CC, ES |
| OM07A B21 696 - DD - Plan #1 | 700.0 | 694.7 | 48.0 | 45.3 | 17.941 | SF |
| OM07B B21 696 - DD - Plan #1 | 518.0 | 515.2 | 53.6 | 51.8 | 29.281 | CC, ES |
| OM07B B21 696 - DD - Plan #1 | 700.0 | 692.1 | 62.1 | 59.4 | 23.054 | SF |
| OM07C B21 696 - DD - Plan #1 | 419.4 | 416.1 | 77.3 | 75.9 | 54.067 | CC, ES |
| OM07C B21 696 - DD - Plan #1 | 1,000.0 | 970.3 | 138.8 | 134.1 | 29.837 | SF |
| OM07D B21 696 - DD - Plan #1 | 432.6 | 429.3 | 67.9 | 66.4 | 45.559 | CC, ES |
| OM07D B21 696 - DD - Plan #1 | 10,079.7 | 10,027.7 | 1,393.5 | 1,328.0 | 21.279 | SF |
| OM08B B21 696 - DD - Plan #1 | 520.1 | 519.4 | 23.9 | 22.1 | 12.904 | CC, ES |
| OM08B B21 696 - DD - Plan #1 | 600.0 | 598.7 | 26.0 | 23.8 | 11.890 | SF |
| OM08C B21 696 - DD - Plan #1 | 524.8 | 524.1 | 16.5 | 14.6 | 8.674 | CC |
| OM08C B21 696 - DD - Plan #1 | 600.0 | 599.2 | 16.8 | 14.5 | 7.389 | ES |
| OM08C B21 696 - DD - Plan #1 | 1,000.0 | 999.6 | 25.7 | 21.0 | 5.476 | SF |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM02B B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 86.82 | 8.8 | 157.4 | 157.7 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 86.82 | 8.8 | 157.4 | 157.7 | 157.4 | 0.30 | 531.406 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 86.82 | 8.8 | 157.4 | 157.7 | 157.0 | 0.65 | 244.160 | | |
| 300.0 | 300.0 | 305.5 | 305.5 | 0.5 | 0.5 | -70.82 | 9.2 | 155.5 | 155.3 | 154.3 | 1.01 | 154.069 | | |
| 400.0 | 399.8 | 410.3 | 410.1 | 0.7 | 0.7 | -73.58 | 10.4 | 149.9 | 148.4 | 147.1 | 1.39 | 106.997 | | |
| 500.0 | 499.5 | 513.9 | 513.3 | 0.9 | 1.0 | -78.70 | 12.4 | 140.6 | 137.8 | 136.0 | 1.80 | 76.342 | | |
| 600.0 | 598.7 | 615.6 | 614.1 | 1.2 | 1.2 | -87.00 | 15.2 | 128.0 | 124.9 | 122.6 | 2.29 | 54.422 | | |
| 700.0 | 697.5 | 714.9 | 712.1 | 1.5 | 1.6 | -99.53 | 18.6 | 112.3 | 112.7 | 109.8 | 2.90 | 38.890 | | |
| 800.0 | 795.6 | 810.9 | 806.3 | 1.9 | 1.9 | -116.44 | 22.6 | 94.1 | 106.5 | 102.9 | 3.59 | 29.654 | | |
| 805.6 | 801.1 | 816.1 | 811.4 | 1.9 | 1.9 | -117.47 | 22.8 | 93.0 | 106.5 | 102.8 | 3.63 | 29.329 CC, ES | | |
| 900.0 | 893.1 | 903.6 | 897.0 | 2.3 | 2.3 | -134.47 | 26.6 | 75.4 | 112.9 | 108.7 | 4.19 | 26.969 SF | | |
| 1,000.0 | 989.6 | 995.0 | 986.4 | 2.8 | 2.6 | -149.89 | 30.6 | 57.0 | 133.3 | 128.7 | 4.59 | 29.044 | | |
| 1,100.0 | 1,085.4 | 1,085.3 | 1,074.8 | 3.3 | 3.0 | -161.36 | 34.6 | 38.9 | 164.0 | 159.2 | 4.88 | 33.605 | | |
| 1,200.0 | 1,181.2 | 1,175.5 | 1,163.1 | 3.8 | 3.3 | -169.35 | 38.5 | 20.7 | 199.6 | 194.4 | 5.17 | 38.573 | | |
| 1,300.0 | 1,276.9 | 1,265.7 | 1,251.4 | 4.3 | 3.7 | -174.98 | 42.5 | 2.6 | 237.7 | 232.2 | 5.50 | 43.220 | | |
| 1,400.0 | 1,372.6 | 1,355.9 | 1,339.7 | 4.9 | 4.1 | -179.09 | 46.5 | -15.6 | 277.2 | 271.4 | 5.86 | 47.328 | | |
| 1,500.0 | 1,468.3 | 1,446.1 | 1,427.9 | 5.4 | 4.4 | 177.81 | 50.4 | -33.7 | 317.7 | 311.5 | 6.24 | 50.883 | | |
| 1,600.0 | 1,564.1 | 1,536.4 | 1,516.2 | 5.9 | 4.8 | 175.40 | 54.4 | -51.9 | 358.9 | 352.2 | 6.65 | 53.944 | | |
| 1,700.0 | 1,659.8 | 1,626.6 | 1,604.5 | 6.4 | 5.1 | 173.48 | 58.3 | -70.0 | 400.4 | 393.3 | 7.08 | 56.585 | | |
| 1,800.0 | 1,755.5 | 1,716.8 | 1,692.8 | 7.0 | 5.5 | 171.92 | 62.3 | -88.2 | 442.3 | 434.8 | 7.51 | 58.877 | | |
| 1,900.0 | 1,851.2 | 1,807.0 | 1,781.0 | 7.5 | 5.9 | 170.62 | 66.2 | -106.3 | 484.4 | 476.4 | 7.96 | 60.878 | | |
| 2,000.0 | 1,947.0 | 1,897.2 | 1,869.3 | 8.0 | 6.2 | 169.54 | 70.2 | -124.5 | 526.6 | 518.2 | 8.41 | 62.637 | | |
| 2,100.0 | 2,042.7 | 1,987.4 | 1,957.6 | 8.6 | 6.6 | 168.61 | 74.1 | -142.6 | 569.0 | 560.1 | 8.86 | 64.194 | | |
| 2,200.0 | 2,138.4 | 2,077.6 | 2,045.9 | 9.1 | 7.0 | 167.81 | 78.1 | -160.7 | 611.5 | 602.2 | 9.32 | 65.581 | | |
| 2,300.0 | 2,234.1 | 2,167.8 | 2,134.2 | 9.7 | 7.3 | 167.11 | 82.0 | -178.9 | 654.1 | 644.3 | 9.79 | 66.823 | | |
| 2,400.0 | 2,329.9 | 2,258.0 | 2,222.4 | 10.2 | 7.7 | 166.50 | 86.0 | -197.0 | 696.7 | 686.5 | 10.25 | 67.942 | | |
| 2,500.0 | 2,425.6 | 2,348.3 | 2,310.7 | 10.7 | 8.1 | 165.96 | 90.0 | -215.2 | 739.4 | 728.7 | 10.72 | 68.955 | | |
| 2,600.0 | 2,521.3 | 2,438.5 | 2,399.0 | 11.3 | 8.4 | 165.47 | 93.9 | -233.3 | 782.2 | 771.0 | 11.19 | 69.876 | | |
| 2,700.0 | 2,617.0 | 2,528.7 | 2,487.3 | 11.8 | 8.8 | 165.04 | 97.9 | -251.5 | 825.0 | 813.3 | 11.67 | 70.717 | | |
| 2,800.0 | 2,712.7 | 2,618.9 | 2,575.5 | 12.3 | 9.2 | 164.65 | 101.8 | -269.6 | 867.8 | 855.7 | 12.14 | 71.488 | | |
| 2,900.0 | 2,808.5 | 2,709.1 | 2,663.8 | 12.9 | 9.5 | 164.30 | 105.8 | -287.8 | 910.7 | 898.1 | 12.61 | 72.197 | | |
| 3,000.0 | 2,904.2 | 2,799.3 | 2,752.1 | 13.4 | 9.9 | 163.97 | 109.7 | -305.9 | 953.6 | 940.5 | 13.09 | 72.851 | | |
| 3,100.0 | 2,999.9 | 2,889.5 | 2,840.4 | 13.9 | 10.3 | 163.68 | 113.7 | -324.1 | 996.5 | 982.9 | 13.57 | 73.457 | | |
| 3,200.0 | 3,095.6 | 2,979.7 | 2,928.7 | 14.5 | 10.6 | 163.41 | 117.6 | -342.2 | 1,039.4 | 1,025.4 | 14.04 | 74.019 | | |
| 3,300.0 | 3,191.4 | 3,069.9 | 3,016.9 | 15.0 | 11.0 | 163.16 | 121.6 | -360.4 | 1,082.4 | 1,067.9 | 14.52 | 74.542 | | |
| 3,400.0 | 3,287.1 | 3,160.2 | 3,105.2 | 15.5 | 11.3 | 162.93 | 125.6 | -378.5 | 1,125.4 | 1,110.4 | 15.00 | 75.031 | | |
| 3,500.0 | 3,382.8 | 3,250.4 | 3,193.5 | 16.1 | 11.7 | 162.72 | 129.5 | -396.7 | 1,168.3 | 1,152.9 | 15.48 | 75.487 | | |
| 3,600.0 | 3,478.5 | 3,340.6 | 3,281.8 | 16.6 | 12.1 | 162.52 | 133.5 | -414.8 | 1,211.3 | 1,195.4 | 15.96 | 75.915 | | |
| 3,700.0 | 3,574.3 | 3,430.8 | 3,370.1 | 17.2 | 12.4 | 162.34 | 137.4 | -433.0 | 1,254.3 | 1,237.9 | 16.44 | 76.317 | | |
| 3,800.0 | 3,670.0 | 3,521.0 | 3,458.3 | 17.7 | 12.8 | 162.16 | 141.4 | -451.1 | 1,297.3 | 1,280.4 | 16.92 | 76.696 | | |
| 3,900.0 | 3,765.7 | 3,611.2 | 3,546.6 | 18.2 | 13.2 | 162.00 | 145.3 | -469.2 | 1,340.4 | 1,323.0 | 17.40 | 77.052 | | |
| 4,000.0 | 3,861.4 | 3,701.4 | 3,634.9 | 18.8 | 13.5 | 161.85 | 149.3 | -487.4 | 1,383.4 | 1,365.5 | 17.88 | 77.389 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM02C B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | Separation | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -148.76 | -8.4 | -5.1 | 9.8 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -148.76 | -8.4 | -5.1 | 9.8 | 9.5 | 0.30 | 33.005 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -148.76 | -8.4 | -5.1 | 9.8 | 9.1 | 0.65 | 15.165 | | |
| 235.0 | 235.0 | 234.9 | 234.9 | 0.4 | 0.4 | 56.55 | -8.4 | -5.3 | 9.8 | 9.0 | 0.77 | 12.722 CC, ES | | |
| 300.0 | 300.0 | 299.7 | 299.7 | 0.5 | 0.5 | 71.10 | -8.4 | -6.8 | 10.1 | 9.1 | 1.00 | 10.122 SF | | |
| 400.0 | 399.8 | 399.0 | 398.8 | 0.7 | 0.7 | 105.21 | -8.4 | -12.0 | 14.9 | 13.5 | 1.37 | 10.921 | | |
| 500.0 | 499.5 | 497.2 | 496.7 | 0.9 | 0.9 | 125.19 | -8.5 | -20.5 | 27.5 | 25.7 | 1.74 | 15.787 | | |
| 600.0 | 598.7 | 594.0 | 592.7 | 1.2 | 1.2 | 133.84 | -8.5 | -32.1 | 46.8 | 44.6 | 2.14 | 21.893 | | |
| 700.0 | 697.5 | 689.6 | 687.2 | 1.5 | 1.5 | 138.04 | -8.6 | -46.6 | 71.8 | 69.3 | 2.56 | 28.078 | | |
| 800.0 | 795.6 | 785.3 | 781.7 | 1.9 | 1.8 | 141.00 | -8.7 | -61.9 | 100.4 | 97.3 | 3.00 | 33.402 | | |
| 900.0 | 893.1 | 880.1 | 875.3 | 2.3 | 2.1 | 143.42 | -8.8 | -76.9 | 131.7 | 128.2 | 3.47 | 37.991 | | |
| 1,000.0 | 989.6 | 973.8 | 967.9 | 2.8 | 2.4 | 145.46 | -8.8 | -91.8 | 166.0 | 162.0 | 3.94 | 42.099 | | |
| 1,100.0 | 1,085.4 | 1,066.7 | 1,059.5 | 3.3 | 2.7 | 147.38 | -8.9 | -106.6 | 202.7 | 198.2 | 4.43 | 45.784 | | |
| 1,200.0 | 1,181.2 | 1,159.4 | 1,151.0 | 3.8 | 3.0 | 148.88 | -9.0 | -121.3 | 239.7 | 234.8 | 4.92 | 48.760 | | |
| 1,300.0 | 1,276.9 | 1,252.1 | 1,242.6 | 4.3 | 3.3 | 149.97 | -9.1 | -136.1 | 276.9 | 271.5 | 5.41 | 51.207 | | |
| 1,400.0 | 1,372.6 | 1,344.8 | 1,334.1 | 4.9 | 3.6 | 150.80 | -9.2 | -150.8 | 314.2 | 308.3 | 5.90 | 53.251 | | |
| 1,500.0 | 1,468.3 | 1,437.5 | 1,425.6 | 5.4 | 3.9 | 151.46 | -9.3 | -165.6 | 351.5 | 345.1 | 6.39 | 54.982 | | |
| 1,600.0 | 1,564.1 | 1,530.2 | 1,517.2 | 5.9 | 4.2 | 151.99 | -9.3 | -180.3 | 388.8 | 382.0 | 6.89 | 56.467 | | |
| 1,700.0 | 1,659.8 | 1,622.9 | 1,608.7 | 6.4 | 4.5 | 152.43 | -9.4 | -195.1 | 426.2 | 418.8 | 7.38 | 57.754 | | |
| 1,800.0 | 1,755.5 | 1,715.6 | 1,700.2 | 7.0 | 4.8 | 152.80 | -9.5 | -209.8 | 463.6 | 455.7 | 7.87 | 58.879 | | |
| 1,900.0 | 1,851.2 | 1,808.4 | 1,791.8 | 7.5 | 5.1 | 153.11 | -9.6 | -224.6 | 501.0 | 492.6 | 8.37 | 59.871 | | |
| 2,000.0 | 1,947.0 | 1,901.1 | 1,883.3 | 8.0 | 5.4 | 153.38 | -9.7 | -239.3 | 538.4 | 529.5 | 8.86 | 60.752 | | |
| 2,100.0 | 2,042.7 | 1,993.8 | 1,974.8 | 8.6 | 5.7 | 153.62 | -9.7 | -254.0 | 575.8 | 566.4 | 9.36 | 61.539 | | |
| 2,200.0 | 2,138.4 | 2,086.5 | 2,066.4 | 9.1 | 6.0 | 153.82 | -9.8 | -268.8 | 613.2 | 603.4 | 9.85 | 62.248 | | |
| 2,300.0 | 2,234.1 | 2,179.2 | 2,157.9 | 9.7 | 6.3 | 154.01 | -9.9 | -283.5 | 650.6 | 640.3 | 10.35 | 62.888 | | |
| 2,400.0 | 2,329.9 | 2,271.9 | 2,249.4 | 10.2 | 6.6 | 154.17 | -10.0 | -298.3 | 688.1 | 677.2 | 10.84 | 63.470 | | |
| 2,500.0 | 2,425.6 | 2,364.6 | 2,341.0 | 10.7 | 6.9 | 154.31 | -10.1 | -313.0 | 725.5 | 714.2 | 11.34 | 64.000 | | |
| 2,600.0 | 2,521.3 | 2,457.4 | 2,432.5 | 11.3 | 7.2 | 154.45 | -10.1 | -327.8 | 763.0 | 751.1 | 11.83 | 64.486 | | |
| 2,700.0 | 2,617.0 | 2,550.1 | 2,524.0 | 11.8 | 7.5 | 154.57 | -10.2 | -342.5 | 800.4 | 788.1 | 12.33 | 64.933 | | |
| 2,800.0 | 2,712.7 | 2,642.8 | 2,615.6 | 12.3 | 7.8 | 154.67 | -10.3 | -357.3 | 837.9 | 825.0 | 12.82 | 65.345 | | |
| 2,900.0 | 2,808.5 | 2,735.5 | 2,707.1 | 12.9 | 8.1 | 154.77 | -10.4 | -372.0 | 875.3 | 862.0 | 13.32 | 65.726 | | |
| 3,000.0 | 2,904.2 | 2,828.2 | 2,798.6 | 13.4 | 8.4 | 154.86 | -10.5 | -386.7 | 912.7 | 898.9 | 13.81 | 66.080 | | |
| 3,100.0 | 2,999.9 | 2,920.9 | 2,890.2 | 13.9 | 8.8 | 154.95 | -10.5 | -401.5 | 950.2 | 935.9 | 14.31 | 66.409 | | |
| 3,200.0 | 3,095.6 | 3,013.6 | 2,981.7 | 14.5 | 9.1 | 155.03 | -10.6 | -416.2 | 987.7 | 972.9 | 14.80 | 66.715 | | |
| 3,300.0 | 3,191.4 | 3,106.3 | 3,073.2 | 15.0 | 9.4 | 155.10 | -10.7 | -431.0 | 1,025.1 | 1,009.8 | 15.30 | 67.002 | | |
| 3,400.0 | 3,287.1 | 3,199.1 | 3,164.8 | 15.5 | 9.7 | 155.16 | -10.8 | -445.7 | 1,062.6 | 1,046.8 | 15.80 | 67.271 | | |
| 3,500.0 | 3,382.8 | 3,291.8 | 3,256.3 | 16.1 | 10.0 | 155.23 | -10.9 | -460.5 | 1,100.0 | 1,083.7 | 16.29 | 67.524 | | |
| 3,600.0 | 3,478.5 | 3,384.5 | 3,347.8 | 16.6 | 10.3 | 155.28 | -10.9 | -475.2 | 1,137.5 | 1,120.7 | 16.79 | 67.761 | | |
| 3,700.0 | 3,574.3 | 3,477.2 | 3,439.4 | 17.2 | 10.6 | 155.34 | -11.0 | -490.0 | 1,174.9 | 1,157.7 | 17.28 | 67.985 | | |
| 3,800.0 | 3,670.0 | 3,569.9 | 3,530.9 | 17.7 | 10.9 | 155.39 | -11.1 | -504.7 | 1,212.4 | 1,194.6 | 17.78 | 68.196 | | |
| 3,900.0 | 3,765.7 | 3,662.6 | 3,622.4 | 18.2 | 11.2 | 155.44 | -11.2 | -519.4 | 1,249.9 | 1,231.6 | 18.27 | 68.396 | | |
| 4,000.0 | 3,861.4 | 3,755.3 | 3,714.0 | 18.8 | 11.5 | 155.48 | -11.3 | -534.2 | 1,287.3 | 1,268.6 | 18.77 | 68.585 | | |
| 4,100.0 | 3,957.2 | 3,848.0 | 3,805.5 | 19.3 | 11.8 | 155.53 | -11.4 | -548.9 | 1,324.8 | 1,305.5 | 19.27 | 68.764 | | |
| 4,200.0 | 4,052.9 | 3,940.8 | 3,897.0 | 19.8 | 12.1 | 155.57 | -11.4 | -563.7 | 1,362.3 | 1,342.5 | 19.76 | 68.934 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM02D B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | Separation | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -150.28 | -34.6 | -19.7 | 39.8 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -150.28 | -34.6 | -19.7 | 39.8 | 39.5 | 0.30 | 134.269 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -150.28 | -34.6 | -19.7 | 39.8 | 39.2 | 0.65 | 61.691 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 55.03 | -34.6 | -19.7 | 38.8 | 37.8 | 1.00 | 38.922 | | |
| 400.0 | 399.8 | 399.8 | 399.8 | 0.7 | 0.7 | 61.90 | -34.6 | -19.7 | 36.1 | 34.7 | 1.36 | 26.475 | | |
| 500.0 | 499.5 | 499.5 | 499.5 | 0.9 | 0.8 | 75.44 | -34.6 | -19.7 | 32.9 | 31.1 | 1.76 | 18.646 | | |
| 541.1 | 540.3 | 539.8 | 539.8 | 1.0 | 0.9 | 83.36 | -34.7 | -20.0 | 32.3 | 30.3 | 1.95 | 16.599 CC, ES | | |
| 600.0 | 598.7 | 597.6 | 597.6 | 1.2 | 1.0 | 96.39 | -35.2 | -21.3 | 33.7 | 31.5 | 2.20 | 15.299 SF | | |
| 700.0 | 697.5 | 694.9 | 694.8 | 1.5 | 1.2 | 116.31 | -37.0 | -25.9 | 43.3 | 40.7 | 2.63 | 16.437 | | |
| 800.0 | 795.6 | 791.2 | 790.7 | 1.9 | 1.4 | 128.67 | -39.9 | -33.5 | 61.0 | 58.0 | 3.05 | 19.993 | | |
| 900.0 | 893.1 | 886.1 | 884.9 | 2.3 | 1.6 | 135.24 | -44.0 | -44.0 | 85.2 | 81.7 | 3.50 | 24.328 | | |
| 1,000.0 | 989.6 | 979.2 | 977.0 | 2.8 | 1.9 | 138.64 | -49.0 | -57.0 | 114.6 | 110.6 | 4.00 | 28.681 | | |
| 1,100.0 | 1,085.4 | 1,070.5 | 1,066.8 | 3.3 | 2.2 | 140.51 | -55.0 | -72.6 | 148.4 | 143.8 | 4.54 | 32.701 | | |
| 1,200.0 | 1,181.2 | 1,162.8 | 1,157.0 | 3.8 | 2.5 | 141.27 | -61.9 | -90.4 | 184.0 | 178.8 | 5.12 | 35.935 | | |
| 1,300.0 | 1,276.9 | 1,256.2 | 1,248.3 | 4.3 | 2.9 | 141.75 | -69.0 | -108.6 | 219.7 | 214.0 | 5.72 | 38.411 | | |
| 1,400.0 | 1,372.6 | 1,349.6 | 1,339.6 | 4.9 | 3.2 | 142.09 | -76.0 | -126.9 | 255.5 | 249.1 | 6.33 | 40.352 | | |
| 1,500.0 | 1,468.3 | 1,442.9 | 1,431.0 | 5.4 | 3.6 | 142.35 | -83.1 | -145.1 | 291.2 | 284.3 | 6.95 | 41.907 | | |
| 1,600.0 | 1,564.1 | 1,536.3 | 1,522.3 | 5.9 | 3.9 | 142.56 | -90.1 | -163.3 | 327.0 | 319.4 | 7.57 | 43.177 | | |
| 1,700.0 | 1,659.8 | 1,629.7 | 1,613.6 | 6.4 | 4.3 | 142.72 | -97.2 | -181.6 | 362.7 | 354.5 | 8.20 | 44.231 | | |
| 1,800.0 | 1,755.5 | 1,723.1 | 1,704.9 | 7.0 | 4.7 | 142.85 | -104.2 | -199.8 | 398.5 | 389.7 | 8.83 | 45.118 | | |
| 1,900.0 | 1,851.2 | 1,816.5 | 1,796.2 | 7.5 | 5.1 | 142.97 | -111.3 | -218.0 | 434.3 | 424.8 | 9.47 | 45.873 | | |
| 2,000.0 | 1,947.0 | 1,909.8 | 1,887.5 | 8.0 | 5.4 | 143.06 | -118.4 | -236.3 | 470.0 | 459.9 | 10.10 | 46.525 | | |
| 2,100.0 | 2,042.7 | 2,003.2 | 1,978.8 | 8.6 | 5.8 | 143.14 | -125.4 | -254.5 | 505.8 | 495.1 | 10.74 | 47.091 | | |
| 2,200.0 | 2,138.4 | 2,096.6 | 2,070.1 | 9.1 | 6.2 | 143.21 | -132.5 | -272.7 | 541.6 | 530.2 | 11.38 | 47.588 | | |
| 2,300.0 | 2,234.1 | 2,190.0 | 2,161.5 | 9.7 | 6.6 | 143.27 | -139.5 | -291.0 | 577.4 | 565.3 | 12.02 | 48.027 | | |
| 2,400.0 | 2,329.9 | 2,283.4 | 2,252.8 | 10.2 | 6.9 | 143.33 | -146.6 | -309.2 | 613.1 | 600.5 | 12.66 | 48.418 | | |
| 2,500.0 | 2,425.6 | 2,376.7 | 2,344.1 | 10.7 | 7.3 | 143.38 | -153.6 | -327.4 | 648.9 | 635.6 | 13.31 | 48.768 | | |
| 2,600.0 | 2,521.3 | 2,470.1 | 2,435.4 | 11.3 | 7.7 | 143.42 | -160.7 | -345.7 | 684.7 | 670.7 | 13.95 | 49.083 | | |
| 2,700.0 | 2,617.0 | 2,563.5 | 2,526.7 | 11.8 | 8.1 | 143.46 | -167.7 | -363.9 | 720.5 | 705.9 | 14.59 | 49.369 | | |
| 2,800.0 | 2,712.7 | 2,656.9 | 2,618.0 | 12.3 | 8.5 | 143.50 | -174.8 | -382.1 | 756.2 | 741.0 | 15.24 | 49.628 | | |
| 2,900.0 | 2,808.5 | 2,750.3 | 2,709.3 | 12.9 | 8.8 | 143.53 | -181.8 | -400.4 | 792.0 | 776.1 | 15.88 | 49.865 | | |
| 3,000.0 | 2,904.2 | 2,843.7 | 2,800.6 | 13.4 | 9.2 | 143.56 | -188.9 | -418.6 | 827.8 | 811.2 | 16.53 | 50.081 | | |
| 3,100.0 | 2,999.9 | 2,937.0 | 2,891.9 | 13.9 | 9.6 | 143.58 | -195.9 | -436.8 | 863.6 | 846.4 | 17.17 | 50.281 | | |
| 3,200.0 | 3,095.6 | 3,030.4 | 2,983.3 | 14.5 | 10.0 | 143.61 | -203.0 | -455.1 | 899.3 | 881.5 | 17.82 | 50.465 | | |
| 3,300.0 | 3,191.4 | 3,123.8 | 3,074.6 | 15.0 | 10.4 | 143.63 | -210.1 | -473.3 | 935.1 | 916.6 | 18.47 | 50.635 | | |
| 3,400.0 | 3,287.1 | 3,217.2 | 3,165.9 | 15.5 | 10.7 | 143.65 | -217.1 | -491.5 | 970.9 | 951.8 | 19.11 | 50.794 | | |
| 3,500.0 | 3,382.8 | 3,310.6 | 3,257.2 | 16.1 | 11.1 | 143.67 | -224.2 | -509.8 | 1,006.7 | 986.9 | 19.76 | 50.941 | | |
| 3,600.0 | 3,478.5 | 3,403.9 | 3,348.5 | 16.6 | 11.5 | 143.69 | -231.2 | -528.0 | 1,042.4 | 1,022.0 | 20.41 | 51.078 | | |
| 3,700.0 | 3,574.3 | 3,497.3 | 3,439.8 | 17.2 | 11.9 | 143.71 | -238.3 | -546.2 | 1,078.2 | 1,057.1 | 21.06 | 51.206 | | |
| 3,800.0 | 3,670.0 | 3,590.7 | 3,531.1 | 17.7 | 12.3 | 143.73 | -245.3 | -564.5 | 1,114.0 | 1,092.3 | 21.70 | 51.326 | | |
| 3,900.0 | 3,765.7 | 3,684.1 | 3,622.4 | 18.2 | 12.6 | 143.74 | -252.4 | -582.7 | 1,149.8 | 1,127.4 | 22.35 | 51.439 | | |
| 4,000.0 | 3,861.4 | 3,777.5 | 3,713.7 | 18.8 | 13.0 | 143.75 | -259.4 | -600.9 | 1,185.5 | 1,162.5 | 23.00 | 51.545 | | |
| 4,100.0 | 3,957.2 | 3,870.8 | 3,805.1 | 19.3 | 13.4 | 143.77 | -266.5 | -619.2 | 1,221.3 | 1,197.7 | 23.65 | 51.645 | | |
| 4,200.0 | 4,052.9 | 3,964.2 | 3,896.4 | 19.8 | 13.8 | 143.78 | -273.5 | -637.4 | 1,257.1 | 1,232.8 | 24.30 | 51.740 | | |
| 4,300.0 | 4,148.6 | 4,057.6 | 3,987.7 | 20.4 | 14.2 | 143.79 | -280.6 | -655.6 | 1,292.9 | 1,267.9 | 24.94 | 51.829 | | |
| 4,400.0 | 4,244.3 | 4,151.0 | 4,079.0 | 20.9 | 14.6 | 143.80 | -287.6 | -673.9 | 1,328.6 | 1,303.0 | 25.59 | 51.914 | | |
| 4,500.0 | 4,340.0 | 4,244.4 | 4,170.3 | 21.4 | 14.9 | 143.81 | -294.7 | -692.1 | 1,364.4 | 1,338.2 | 26.24 | 51.994 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM07A B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -150.19 | -43.3 | -24.8 | 49.9 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -150.19 | -43.3 | -24.8 | 49.9 | 49.7 | 0.30 | 168.341 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -150.19 | -43.3 | -24.8 | 49.9 | 49.3 | 0.65 | 77.346 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 54.70 | -43.3 | -24.8 | 48.9 | 47.9 | 1.00 | 49.058 | | |
| 400.0 | 399.8 | 399.8 | 399.8 | 0.7 | 0.7 | 60.06 | -43.3 | -24.8 | 46.1 | 44.7 | 1.36 | 33.851 | | |
| 500.0 | 499.5 | 499.5 | 499.5 | 0.9 | 0.8 | 70.35 | -43.3 | -24.8 | 42.4 | 40.7 | 1.76 | 24.114 | | |
| 564.4 | 563.5 | 562.6 | 562.6 | 1.1 | 1.0 | 80.10 | -43.7 | -25.4 | 41.2 | 39.1 | 2.05 | 20.144 | CC, ES | |
| 600.0 | 598.7 | 597.3 | 597.3 | 1.2 | 1.0 | 86.32 | -44.3 | -26.2 | 41.6 | 39.4 | 2.20 | 18.884 | | |
| 700.0 | 697.5 | 694.7 | 694.6 | 1.5 | 1.2 | 103.79 | -47.2 | -30.2 | 48.0 | 45.3 | 2.68 | 17.941 | SF | |
| 800.0 | 795.6 | 791.4 | 790.9 | 1.9 | 1.4 | 117.04 | -52.0 | -36.9 | 62.0 | 58.8 | 3.15 | 19.698 | | |
| 900.0 | 893.1 | 887.0 | 885.8 | 2.3 | 1.6 | 125.25 | -58.6 | -46.0 | 82.3 | 78.7 | 3.64 | 22.605 | | |
| 1,000.0 | 989.6 | 981.5 | 979.3 | 2.8 | 1.9 | 130.01 | -66.9 | -57.6 | 107.8 | 103.6 | 4.18 | 25.779 | | |
| 1,100.0 | 1,085.4 | 1,077.0 | 1,073.4 | 3.3 | 2.2 | 133.47 | -76.1 | -70.5 | 136.5 | 131.7 | 4.75 | 28.744 | | |
| 1,200.0 | 1,181.2 | 1,172.5 | 1,167.6 | 3.8 | 2.5 | 135.93 | -85.3 | -83.3 | 165.7 | 160.4 | 5.33 | 31.105 | | |
| 1,300.0 | 1,276.9 | 1,267.9 | 1,261.7 | 4.3 | 2.8 | 137.64 | -94.5 | -96.1 | 195.1 | 189.2 | 5.92 | 32.980 | | |
| 1,400.0 | 1,372.6 | 1,363.3 | 1,355.8 | 4.9 | 3.1 | 138.91 | -103.8 | -109.0 | 224.7 | 218.2 | 6.51 | 34.495 | | |
| 1,500.0 | 1,468.3 | 1,458.8 | 1,449.9 | 5.4 | 3.4 | 139.88 | -113.0 | -121.8 | 254.3 | 247.2 | 7.12 | 35.741 | | |
| 1,600.0 | 1,564.1 | 1,554.2 | 1,544.0 | 5.9 | 3.7 | 140.65 | -122.2 | -134.6 | 284.0 | 276.2 | 7.72 | 36.780 | | |
| 1,700.0 | 1,659.8 | 1,649.6 | 1,638.1 | 6.4 | 4.0 | 141.28 | -131.4 | -147.5 | 313.7 | 305.3 | 8.33 | 37.659 | | |
| 1,800.0 | 1,755.5 | 1,745.1 | 1,732.3 | 7.0 | 4.3 | 141.80 | -140.6 | -160.3 | 343.4 | 334.5 | 8.94 | 38.411 | | |
| 1,900.0 | 1,851.2 | 1,840.5 | 1,826.4 | 7.5 | 4.6 | 142.23 | -149.8 | -173.1 | 373.2 | 363.6 | 9.55 | 39.062 | | |
| 2,000.0 | 1,947.0 | 1,935.9 | 1,920.5 | 8.0 | 4.9 | 142.60 | -159.1 | -186.0 | 402.9 | 392.8 | 10.17 | 39.629 | | |
| 2,100.0 | 2,042.7 | 2,031.4 | 2,014.6 | 8.6 | 5.3 | 142.92 | -168.3 | -198.8 | 432.7 | 421.9 | 10.78 | 40.128 | | |
| 2,200.0 | 2,138.4 | 2,126.8 | 2,108.7 | 9.1 | 5.6 | 143.20 | -177.5 | -211.6 | 462.5 | 451.1 | 11.40 | 40.570 | | |
| 2,300.0 | 2,234.1 | 2,222.2 | 2,202.9 | 9.7 | 5.9 | 143.44 | -186.7 | -224.5 | 492.3 | 480.3 | 12.02 | 40.965 | | |
| 2,400.0 | 2,329.9 | 2,317.7 | 2,297.0 | 10.2 | 6.2 | 143.66 | -195.9 | -237.3 | 522.1 | 509.5 | 12.64 | 41.319 | | |
| 2,500.0 | 2,425.6 | 2,413.1 | 2,391.1 | 10.7 | 6.5 | 143.85 | -205.1 | -250.1 | 552.0 | 538.7 | 13.26 | 41.639 | | |
| 2,600.0 | 2,521.3 | 2,508.5 | 2,485.2 | 11.3 | 6.9 | 144.03 | -214.4 | -263.0 | 581.8 | 567.9 | 13.88 | 41.929 | | |
| 2,700.0 | 2,617.0 | 2,604.0 | 2,579.3 | 11.8 | 7.2 | 144.18 | -223.6 | -275.8 | 611.6 | 597.1 | 14.50 | 42.193 | | |
| 2,800.0 | 2,712.7 | 2,699.4 | 2,673.4 | 12.3 | 7.5 | 144.32 | -232.8 | -288.6 | 641.5 | 626.3 | 15.12 | 42.434 | | |
| 2,900.0 | 2,808.5 | 2,794.8 | 2,767.6 | 12.9 | 7.8 | 144.45 | -242.0 | -301.5 | 671.3 | 655.6 | 15.74 | 42.655 | | |
| 3,000.0 | 2,904.2 | 2,890.3 | 2,861.7 | 13.4 | 8.1 | 144.57 | -251.2 | -314.3 | 701.1 | 684.8 | 16.36 | 42.859 | | |
| 3,100.0 | 2,999.9 | 2,985.7 | 2,955.8 | 13.9 | 8.5 | 144.68 | -260.4 | -327.1 | 731.0 | 714.0 | 16.98 | 43.048 | | |
| 3,200.0 | 3,095.6 | 3,081.2 | 3,049.9 | 14.5 | 8.8 | 144.78 | -269.7 | -340.0 | 760.8 | 743.2 | 17.60 | 43.223 | | |
| 3,300.0 | 3,191.4 | 3,176.6 | 3,144.0 | 15.0 | 9.1 | 144.87 | -278.9 | -352.8 | 790.7 | 772.4 | 18.22 | 43.385 | | |
| 3,400.0 | 3,287.1 | 3,272.0 | 3,238.1 | 15.5 | 9.4 | 144.96 | -288.1 | -365.6 | 820.5 | 801.7 | 18.85 | 43.536 | | |
| 3,500.0 | 3,382.8 | 3,367.5 | 3,332.3 | 16.1 | 9.8 | 145.04 | -297.3 | -378.5 | 850.4 | 830.9 | 19.47 | 43.677 | | |
| 3,600.0 | 3,478.5 | 3,462.9 | 3,426.4 | 16.6 | 10.1 | 145.11 | -306.5 | -391.3 | 880.2 | 860.1 | 20.09 | 43.809 | | |
| 3,700.0 | 3,574.3 | 3,558.3 | 3,520.5 | 17.2 | 10.4 | 145.18 | -315.7 | -404.1 | 910.1 | 889.3 | 20.71 | 43.933 | | |
| 3,800.0 | 3,670.0 | 3,653.8 | 3,614.6 | 17.7 | 10.7 | 145.25 | -325.0 | -417.0 | 939.9 | 918.6 | 21.34 | 44.050 | | |
| 3,900.0 | 3,765.7 | 3,749.2 | 3,708.7 | 18.2 | 11.0 | 145.31 | -334.2 | -429.8 | 969.8 | 947.8 | 21.96 | 44.160 | | |
| 4,000.0 | 3,861.4 | 3,844.6 | 3,802.9 | 18.8 | 11.4 | 145.37 | -343.4 | -442.6 | 999.6 | 977.0 | 22.58 | 44.263 | | |
| 4,100.0 | 3,957.2 | 3,940.1 | 3,897.0 | 19.3 | 11.7 | 145.42 | -352.6 | -455.5 | 1,029.5 | 1,006.3 | 23.21 | 44.361 | | |
| 4,200.0 | 4,052.9 | 4,035.5 | 3,991.1 | 19.8 | 12.0 | 145.47 | -361.8 | -468.3 | 1,059.3 | 1,035.5 | 23.83 | 44.453 | | |
| 4,300.0 | 4,148.6 | 4,130.9 | 4,085.2 | 20.4 | 12.3 | 145.52 | -371.0 | -481.1 | 1,089.2 | 1,064.7 | 24.45 | 44.541 | | |
| 4,400.0 | 4,244.3 | 4,226.4 | 4,179.3 | 20.9 | 12.7 | 145.57 | -380.3 | -494.0 | 1,119.0 | 1,094.0 | 25.08 | 44.624 | | |
| 4,500.0 | 4,340.0 | 4,321.8 | 4,273.4 | 21.4 | 13.0 | 145.61 | -389.5 | -506.8 | 1,148.9 | 1,123.2 | 25.70 | 44.703 | | |
| 4,600.0 | 4,435.8 | 4,417.2 | 4,367.6 | 22.0 | 13.3 | 145.65 | -398.7 | -519.6 | 1,178.8 | 1,152.4 | 26.32 | 44.778 | | |
| 4,700.0 | 4,531.5 | 4,512.7 | 4,461.7 | 22.5 | 13.6 | 145.69 | -407.9 | -532.5 | 1,208.6 | 1,181.7 | 26.95 | 44.850 | | |
| 4,800.0 | 4,627.2 | 4,608.1 | 4,555.8 | 23.1 | 14.0 | 145.73 | -417.1 | -545.3 | 1,238.5 | 1,210.9 | 27.57 | 44.918 | | |
| 4,900.0 | 4,722.9 | 4,703.5 | 4,649.9 | 23.6 | 14.3 | 145.76 | -426.3 | -558.1 | 1,268.3 | 1,240.1 | 28.20 | 44.983 | | |
| 5,000.0 | 4,818.7 | 4,799.0 | 4,744.0 | 24.1 | 14.6 | 145.80 | -435.6 | -571.0 | 1,298.2 | 1,269.4 | 28.82 | 45.046 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | NENE S21-T6S-R96W (B21 696 Pad) - OM07A B21 696 - DD - Plan #1 | | Offset Site Error: | | 0.0 ft | |
|-----------------------|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--|---------|--------------------|--|--------|--|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | | | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | | | | | |
| 5,100.0 | 4,914.4 | 4,894.4 | 4,838.2 | 24.7 | 14.9 | 145.83 | -444.8 | -583.8 | 1,328.1 | 1,298.6 | 29.44 | 45.105 | | | | | | |
| 5,200.0 | 5,010.1 | 4,989.8 | 4,932.3 | 25.2 | 15.2 | 145.86 | -454.0 | -596.6 | 1,357.9 | 1,327.9 | 30.07 | 45.162 | | | | | | |
| 5,300.0 | 5,105.8 | 5,085.3 | 5,026.4 | 25.7 | 15.6 | 145.89 | -463.2 | -609.5 | 1,387.8 | 1,357.1 | 30.69 | 45.217 | | | | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM07B B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -150.37 | -52.1 | -29.6 | 59.9 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -150.37 | -52.1 | -29.6 | 59.9 | 59.6 | 0.30 | 201.943 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -150.37 | -52.1 | -29.6 | 59.9 | 59.3 | 0.65 | 92.784 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 54.24 | -52.1 | -29.6 | 58.9 | 57.9 | 1.00 | 59.050 | | |
| 400.0 | 399.8 | 399.8 | 399.8 | 0.7 | 0.7 | 58.64 | -52.1 | -29.6 | 56.0 | 54.6 | 1.36 | 41.132 | | |
| 500.0 | 499.5 | 497.6 | 497.6 | 0.9 | 0.8 | 66.83 | -53.2 | -30.8 | 53.7 | 51.9 | 1.75 | 30.624 | | |
| 518.0 | 517.3 | 515.2 | 515.2 | 1.0 | 0.9 | 68.72 | -53.7 | -31.3 | 53.6 | 51.8 | 1.83 | 29.281 | CC, ES | |
| 600.0 | 598.7 | 595.1 | 595.0 | 1.2 | 1.0 | 78.52 | -56.6 | -34.5 | 55.2 | 53.0 | 2.20 | 25.128 | | |
| 700.0 | 697.5 | 692.1 | 691.6 | 1.5 | 1.2 | 91.13 | -62.3 | -40.5 | 62.1 | 59.4 | 2.69 | 23.054 | SF | |
| 800.0 | 795.6 | 788.3 | 787.1 | 1.9 | 1.5 | 101.93 | -70.1 | -48.8 | 75.0 | 71.8 | 3.24 | 23.184 | | |
| 900.0 | 893.1 | 883.6 | 881.3 | 2.3 | 1.7 | 109.89 | -80.0 | -59.3 | 93.6 | 89.8 | 3.83 | 24.456 | | |
| 1,000.0 | 989.6 | 977.7 | 973.8 | 2.8 | 2.1 | 115.35 | -91.8 | -71.9 | 117.2 | 112.8 | 4.48 | 26.162 | | |
| 1,100.0 | 1,085.4 | 1,072.2 | 1,066.1 | 3.3 | 2.4 | 119.28 | -105.5 | -86.5 | 144.7 | 139.5 | 5.17 | 27.987 | | |
| 1,200.0 | 1,181.2 | 1,167.8 | 1,159.5 | 3.8 | 2.8 | 122.12 | -119.6 | -101.5 | 173.0 | 167.1 | 5.88 | 29.427 | | |
| 1,300.0 | 1,276.9 | 1,263.4 | 1,252.9 | 4.3 | 3.2 | 124.17 | -133.7 | -116.5 | 201.6 | 195.0 | 6.60 | 30.554 | | |
| 1,400.0 | 1,372.6 | 1,359.0 | 1,346.2 | 4.9 | 3.5 | 125.70 | -147.8 | -131.5 | 230.4 | 223.1 | 7.33 | 31.452 | | |
| 1,500.0 | 1,468.3 | 1,454.6 | 1,439.6 | 5.4 | 3.9 | 126.90 | -161.9 | -146.5 | 259.3 | 251.2 | 8.06 | 32.182 | | |
| 1,600.0 | 1,564.1 | 1,550.2 | 1,533.0 | 5.9 | 4.3 | 127.86 | -176.0 | -161.5 | 288.3 | 279.5 | 8.79 | 32.786 | | |
| 1,700.0 | 1,659.8 | 1,645.8 | 1,626.4 | 6.4 | 4.7 | 128.64 | -190.1 | -176.5 | 317.3 | 307.8 | 9.53 | 33.293 | | |
| 1,800.0 | 1,755.5 | 1,741.5 | 1,719.7 | 7.0 | 5.1 | 129.29 | -204.2 | -191.5 | 346.4 | 336.1 | 10.27 | 33.723 | | |
| 1,900.0 | 1,851.2 | 1,837.1 | 1,813.1 | 7.5 | 5.5 | 129.84 | -218.3 | -206.5 | 375.5 | 364.5 | 11.01 | 34.094 | | |
| 2,000.0 | 1,947.0 | 1,932.7 | 1,906.5 | 8.0 | 5.9 | 130.31 | -232.4 | -221.4 | 404.7 | 392.9 | 11.76 | 34.416 | | |
| 2,100.0 | 2,042.7 | 2,028.3 | 1,999.8 | 8.6 | 6.3 | 130.72 | -246.5 | -236.4 | 433.8 | 421.3 | 12.50 | 34.698 | | |
| 2,200.0 | 2,138.4 | 2,123.9 | 2,093.2 | 9.1 | 6.7 | 131.08 | -260.6 | -251.4 | 463.0 | 449.8 | 13.25 | 34.947 | | |
| 2,300.0 | 2,234.1 | 2,219.5 | 2,186.6 | 9.7 | 7.1 | 131.39 | -274.7 | -266.4 | 492.2 | 478.2 | 14.00 | 35.169 | | |
| 2,400.0 | 2,329.9 | 2,315.1 | 2,279.9 | 10.2 | 7.5 | 131.67 | -288.8 | -281.4 | 521.5 | 506.7 | 14.74 | 35.367 | | |
| 2,500.0 | 2,425.6 | 2,410.7 | 2,373.3 | 10.7 | 7.9 | 131.92 | -302.8 | -296.4 | 550.7 | 535.2 | 15.49 | 35.546 | | |
| 2,600.0 | 2,521.3 | 2,506.3 | 2,466.7 | 11.3 | 8.2 | 132.14 | -316.9 | -311.4 | 579.9 | 563.7 | 16.24 | 35.708 | | |
| 2,700.0 | 2,617.0 | 2,601.9 | 2,560.0 | 11.8 | 8.6 | 132.35 | -331.0 | -326.0 | 609.1 | 592.2 | 16.99 | 35.855 | | |
| 2,800.0 | 2,712.7 | 2,697.5 | 2,653.4 | 12.3 | 9.0 | 132.53 | -345.1 | -341.4 | 638.4 | 620.7 | 17.74 | 35.989 | | |
| 2,900.0 | 2,808.5 | 2,793.2 | 2,746.8 | 12.9 | 9.4 | 132.70 | -359.2 | -356.4 | 667.6 | 649.2 | 18.49 | 36.112 | | |
| 3,000.0 | 2,904.2 | 2,888.8 | 2,840.1 | 13.4 | 9.8 | 132.85 | -373.3 | -371.4 | 696.9 | 677.7 | 19.24 | 36.225 | | |
| 3,100.0 | 2,999.9 | 2,984.4 | 2,933.5 | 13.9 | 10.2 | 132.99 | -387.4 | -386.4 | 726.2 | 706.2 | 19.99 | 36.329 | | |
| 3,200.0 | 3,095.6 | 3,080.0 | 3,026.9 | 14.5 | 10.6 | 133.12 | -401.5 | -401.4 | 755.4 | 734.7 | 20.74 | 36.426 | | |
| 3,300.0 | 3,191.4 | 3,175.6 | 3,120.2 | 15.0 | 11.0 | 133.25 | -415.6 | -416.4 | 784.7 | 763.2 | 21.49 | 36.516 | | |
| 3,400.0 | 3,287.1 | 3,271.2 | 3,213.6 | 15.5 | 11.4 | 133.36 | -429.7 | -431.4 | 814.0 | 791.7 | 22.24 | 36.599 | | |
| 3,500.0 | 3,382.8 | 3,366.8 | 3,307.0 | 16.1 | 11.8 | 133.46 | -443.8 | -446.3 | 843.2 | 820.2 | 22.99 | 36.677 | | |
| 3,600.0 | 3,478.5 | 3,462.4 | 3,400.3 | 16.6 | 12.2 | 133.56 | -457.9 | -461.3 | 872.5 | 848.8 | 23.74 | 36.750 | | |
| 3,700.0 | 3,574.3 | 3,558.0 | 3,493.7 | 17.2 | 12.6 | 133.65 | -472.0 | -476.3 | 901.8 | 877.3 | 24.49 | 36.818 | | |
| 3,800.0 | 3,670.0 | 3,653.6 | 3,587.1 | 17.7 | 13.0 | 133.74 | -486.1 | -491.3 | 931.1 | 905.8 | 25.24 | 36.882 | | |
| 3,900.0 | 3,765.7 | 3,749.2 | 3,680.4 | 18.2 | 13.4 | 133.82 | -500.1 | -506.3 | 960.4 | 934.4 | 26.00 | 36.943 | | |
| 4,000.0 | 3,861.4 | 3,844.8 | 3,773.8 | 18.8 | 13.8 | 133.89 | -514.2 | -521.3 | 989.6 | 962.9 | 26.75 | 37.000 | | |
| 4,100.0 | 3,957.2 | 3,940.5 | 3,867.2 | 19.3 | 14.2 | 133.96 | -528.3 | -536.3 | 1,018.9 | 991.4 | 27.50 | 37.053 | | |
| 4,200.0 | 4,052.9 | 4,036.1 | 3,960.6 | 19.8 | 14.6 | 134.03 | -542.4 | -551.3 | 1,048.2 | 1,020.0 | 28.25 | 37.104 | | |
| 4,300.0 | 4,148.6 | 4,131.7 | 4,053.9 | 20.4 | 15.0 | 134.09 | -556.5 | -566.3 | 1,077.5 | 1,048.5 | 29.00 | 37.152 | | |
| 4,400.0 | 4,244.3 | 4,227.3 | 4,147.3 | 20.9 | 15.4 | 134.15 | -570.6 | -581.3 | 1,106.8 | 1,077.0 | 29.75 | 37.198 | | |
| 4,500.0 | 4,340.0 | 4,322.9 | 4,240.7 | 21.4 | 15.8 | 134.21 | -584.7 | -596.3 | 1,136.1 | 1,105.6 | 30.51 | 37.241 | | |
| 4,600.0 | 4,435.8 | 4,418.5 | 4,334.0 | 22.0 | 16.2 | 134.26 | -598.8 | -611.3 | 1,165.4 | 1,134.1 | 31.26 | 37.283 | | |
| 4,700.0 | 4,531.5 | 4,514.1 | 4,427.4 | 22.5 | 16.6 | 134.32 | -612.9 | -626.3 | 1,194.7 | 1,162.6 | 32.01 | 37.322 | | |
| 4,800.0 | 4,627.2 | 4,609.7 | 4,520.8 | 23.1 | 17.0 | 134.36 | -627.0 | -641.3 | 1,223.9 | 1,191.2 | 32.76 | 37.359 | | |
| 4,900.0 | 4,722.9 | 4,705.3 | 4,614.1 | 23.6 | 17.4 | 134.41 | -641.1 | -656.3 | 1,253.2 | 1,219.7 | 33.51 | 37.395 | | |
| 5,000.0 | 4,818.7 | 4,800.9 | 4,707.5 | 24.1 | 17.8 | 134.46 | -655.2 | -671.2 | 1,282.5 | 1,248.3 | 34.27 | 37.429 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | NENE S21-T6S-R96W (B21 696 Pad) - OM07B B21 696 - DD - Plan #1 | | Offset Site Error: | | 0.0 ft | |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|--|---------|--------------------|--|--------|--|
| Survey Program: | | | | | | | | | | | | | 0-MWD | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | | | | | | | | |
| 5,100.0 | 4,914.4 | 4,896.5 | 4,800.9 | 24.7 | 18.2 | 134.50 | -669.3 | -686.2 | 1,311.8 | 1,276.8 | 35.02 | 37.462 | | | | | | |
| 5,200.0 | 5,010.1 | 4,992.1 | 4,894.2 | 25.2 | 18.6 | 134.54 | -683.4 | -701.2 | 1,341.1 | 1,305.3 | 35.77 | 37.493 | | | | | | |
| 5,300.0 | 5,105.8 | 5,087.8 | 4,987.6 | 25.7 | 19.0 | 134.58 | -697.4 | -716.2 | 1,370.4 | 1,333.9 | 36.52 | 37.523 | | | | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM07C B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | Separation | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -150.29 | -69.2 | -39.5 | 79.7 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -150.29 | -69.2 | -39.5 | 79.7 | 79.4 | 0.30 | 268.563 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -150.29 | -69.2 | -39.5 | 79.7 | 79.0 | 0.65 | 123.394 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 53.99 | -69.2 | -39.5 | 78.6 | 77.6 | 1.00 | 78.873 | | |
| 400.0 | 399.8 | 397.2 | 397.2 | 0.7 | 0.7 | 57.26 | -70.5 | -40.6 | 77.4 | 76.0 | 1.36 | 57.055 | | |
| 419.4 | 419.2 | 416.1 | 416.1 | 0.7 | 0.7 | 58.18 | -71.0 | -41.0 | 77.3 | 75.9 | 1.43 | 54.067 | CC, ES | |
| 500.0 | 499.5 | 494.3 | 494.2 | 0.9 | 0.9 | 62.87 | -74.2 | -43.8 | 78.1 | 76.4 | 1.74 | 44.815 | | |
| 600.0 | 598.7 | 591.0 | 590.5 | 1.2 | 1.1 | 70.24 | -80.5 | -49.0 | 81.7 | 79.6 | 2.18 | 37.551 | | |
| 700.0 | 697.5 | 687.1 | 685.9 | 1.5 | 1.3 | 78.38 | -89.1 | -56.4 | 89.2 | 86.5 | 2.68 | 33.338 | | |
| 800.0 | 795.6 | 782.4 | 780.2 | 1.9 | 1.6 | 86.22 | -100.1 | -65.7 | 101.1 | 97.9 | 3.25 | 31.099 | | |
| 900.0 | 893.1 | 876.9 | 873.0 | 2.3 | 1.9 | 93.03 | -113.4 | -76.9 | 117.7 | 113.8 | 3.91 | 30.102 | | |
| 1,000.0 | 989.6 | 970.3 | 964.2 | 2.8 | 2.3 | 98.55 | -128.7 | -90.0 | 138.8 | 134.1 | 4.65 | 29.837 | SF | |
| 1,100.0 | 1,085.4 | 1,063.4 | 1,054.4 | 3.3 | 2.7 | 103.02 | -146.3 | -104.8 | 163.9 | 158.5 | 5.44 | 30.114 | | |
| 1,200.0 | 1,181.2 | 1,159.2 | 1,147.0 | 3.8 | 3.1 | 106.44 | -165.0 | -120.7 | 190.6 | 184.3 | 6.27 | 30.422 | | |
| 1,300.0 | 1,276.9 | 1,255.0 | 1,239.6 | 4.3 | 3.6 | 109.02 | -183.7 | -136.6 | 217.8 | 210.7 | 7.10 | 30.683 | | |
| 1,400.0 | 1,372.6 | 1,350.9 | 1,332.3 | 4.9 | 4.0 | 111.03 | -202.5 | -152.5 | 245.2 | 237.3 | 7.94 | 30.904 | | |
| 1,500.0 | 1,468.3 | 1,446.7 | 1,424.9 | 5.4 | 4.5 | 112.63 | -221.2 | -168.4 | 273.0 | 264.2 | 8.78 | 31.093 | | |
| 1,600.0 | 1,564.1 | 1,542.5 | 1,517.5 | 5.9 | 4.9 | 113.94 | -239.9 | -184.3 | 300.8 | 291.2 | 9.62 | 31.256 | | |
| 1,700.0 | 1,659.8 | 1,638.3 | 1,610.2 | 6.4 | 5.4 | 115.03 | -258.7 | -200.2 | 328.8 | 318.4 | 10.47 | 31.398 | | |
| 1,800.0 | 1,755.5 | 1,734.2 | 1,702.8 | 7.0 | 5.9 | 115.95 | -277.4 | -216.0 | 356.9 | 345.6 | 11.32 | 31.523 | | |
| 1,900.0 | 1,851.2 | 1,830.0 | 1,795.4 | 7.5 | 6.3 | 116.73 | -296.1 | -231.9 | 385.1 | 372.9 | 12.17 | 31.634 | | |
| 2,000.0 | 1,947.0 | 1,925.8 | 1,888.0 | 8.0 | 6.8 | 117.41 | -314.9 | -247.8 | 413.3 | 400.3 | 13.02 | 31.733 | | |
| 2,100.0 | 2,042.7 | 2,021.7 | 1,980.7 | 8.6 | 7.2 | 118.00 | -333.6 | -263.7 | 441.5 | 427.7 | 13.88 | 31.821 | | |
| 2,200.0 | 2,138.4 | 2,117.5 | 2,073.3 | 9.1 | 7.7 | 118.52 | -352.4 | -279.6 | 469.8 | 455.1 | 14.73 | 31.901 | | |
| 2,300.0 | 2,234.1 | 2,213.3 | 2,165.9 | 9.7 | 8.2 | 118.98 | -371.1 | -295.5 | 498.2 | 482.6 | 15.58 | 31.973 | | |
| 2,400.0 | 2,329.9 | 2,309.2 | 2,258.6 | 10.2 | 8.6 | 119.39 | -389.8 | -311.4 | 526.5 | 510.1 | 16.43 | 32.039 | | |
| 2,500.0 | 2,425.6 | 2,405.0 | 2,351.2 | 10.7 | 9.1 | 119.76 | -408.6 | -327.3 | 554.9 | 537.6 | 17.29 | 32.099 | | |
| 2,600.0 | 2,521.3 | 2,500.8 | 2,443.8 | 11.3 | 9.6 | 120.09 | -427.3 | -343.1 | 583.3 | 565.2 | 18.14 | 32.154 | | |
| 2,700.0 | 2,617.0 | 2,596.6 | 2,536.4 | 11.8 | 10.0 | 120.39 | -446.0 | -359.0 | 611.7 | 592.7 | 18.99 | 32.205 | | |
| 2,800.0 | 2,712.7 | 2,692.5 | 2,629.1 | 12.3 | 10.5 | 120.67 | -464.8 | -374.9 | 640.2 | 620.3 | 19.85 | 32.252 | | |
| 2,900.0 | 2,808.5 | 2,788.3 | 2,721.7 | 12.9 | 10.9 | 120.92 | -483.5 | -390.8 | 668.6 | 647.9 | 20.70 | 32.295 | | |
| 3,000.0 | 2,904.2 | 2,884.1 | 2,814.3 | 13.4 | 11.4 | 121.15 | -502.2 | -406.7 | 697.1 | 675.5 | 21.56 | 32.336 | | |
| 3,100.0 | 2,999.9 | 2,980.0 | 2,906.9 | 13.9 | 11.9 | 121.37 | -521.0 | -422.6 | 725.5 | 703.1 | 22.41 | 32.373 | | |
| 3,200.0 | 3,095.6 | 3,075.8 | 2,999.6 | 14.5 | 12.3 | 121.56 | -539.7 | -438.5 | 754.0 | 730.7 | 23.27 | 32.408 | | |
| 3,300.0 | 3,191.4 | 3,171.6 | 3,092.2 | 15.0 | 12.8 | 121.75 | -558.4 | -454.4 | 782.5 | 758.4 | 24.12 | 32.441 | | |
| 3,400.0 | 3,287.1 | 3,267.5 | 3,184.8 | 15.5 | 13.3 | 121.92 | -577.2 | -470.2 | 811.0 | 786.0 | 24.97 | 32.471 | | |
| 3,500.0 | 3,382.8 | 3,363.3 | 3,277.5 | 16.1 | 13.7 | 122.08 | -595.9 | -486.1 | 839.5 | 813.6 | 25.83 | 32.500 | | |
| 3,600.0 | 3,478.5 | 3,459.1 | 3,370.1 | 16.6 | 14.2 | 122.22 | -614.7 | -502.0 | 867.9 | 841.3 | 26.68 | 32.527 | | |
| 3,700.0 | 3,574.3 | 3,554.9 | 3,462.7 | 17.2 | 14.7 | 122.36 | -633.4 | -517.9 | 896.5 | 868.9 | 27.54 | 32.553 | | |
| 3,800.0 | 3,670.0 | 3,650.8 | 3,555.3 | 17.7 | 15.1 | 122.49 | -652.1 | -533.8 | 925.0 | 896.6 | 28.39 | 32.577 | | |
| 3,900.0 | 3,765.7 | 3,746.6 | 3,648.0 | 18.2 | 15.6 | 122.61 | -670.9 | -549.7 | 953.5 | 924.2 | 29.25 | 32.600 | | |
| 4,000.0 | 3,861.4 | 3,842.4 | 3,740.6 | 18.8 | 16.1 | 122.73 | -689.6 | -565.6 | 982.0 | 951.9 | 30.10 | 32.621 | | |
| 4,100.0 | 3,957.2 | 3,938.3 | 3,833.2 | 19.3 | 16.5 | 122.84 | -708.3 | -581.4 | 1,010.5 | 979.5 | 30.96 | 32.642 | | |
| 4,200.0 | 4,052.9 | 4,034.1 | 3,925.9 | 19.8 | 17.0 | 122.94 | -727.1 | -597.3 | 1,039.0 | 1,007.2 | 31.81 | 32.661 | | |
| 4,300.0 | 4,148.6 | 4,129.9 | 4,018.5 | 20.4 | 17.4 | 123.04 | -745.8 | -613.2 | 1,067.6 | 1,034.9 | 32.67 | 32.680 | | |
| 4,400.0 | 4,244.3 | 4,225.8 | 4,111.1 | 20.9 | 17.9 | 123.13 | -764.5 | -629.1 | 1,096.1 | 1,062.6 | 33.52 | 32.698 | | |
| 4,500.0 | 4,340.0 | 4,321.6 | 4,203.7 | 21.4 | 18.4 | 123.22 | -783.3 | -645.0 | 1,124.6 | 1,090.2 | 34.38 | 32.714 | | |
| 4,600.0 | 4,435.8 | 4,417.4 | 4,296.4 | 22.0 | 18.8 | 123.30 | -802.0 | -660.9 | 1,153.1 | 1,117.9 | 35.23 | 32.731 | | |
| 4,700.0 | 4,531.5 | 4,513.2 | 4,389.0 | 22.5 | 19.3 | 123.38 | -820.7 | -676.8 | 1,181.7 | 1,145.6 | 36.09 | 32.746 | | |
| 4,800.0 | 4,627.2 | 4,609.1 | 4,481.6 | 23.1 | 19.8 | 123.46 | -839.5 | -692.7 | 1,210.2 | 1,173.3 | 36.94 | 32.760 | | |
| 4,900.0 | 4,722.9 | 4,704.9 | 4,574.3 | 23.6 | 20.2 | 123.53 | -858.2 | -708.5 | 1,238.7 | 1,201.0 | 37.80 | 32.775 | | |
| 5,000.0 | 4,818.7 | 4,800.7 | 4,666.9 | 24.1 | 20.7 | 123.60 | -877.0 | -724.4 | 1,267.3 | 1,228.6 | 38.65 | 32.788 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | NENE S21-T6S-R96W (B21 696 Pad) - OM07C B21 696 - DD - Plan #1 | | Offset Site Error: | | 0.0 ft | |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|-------------------|-------------------|--|---------|--------------------|--|--------|--|
| Survey Program: | | | | | | | | | | | | | 0-MWD | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty | Separation Factor | | | | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | Axis | | | | | | | |
| 5,100.0 | 4,914.4 | 4,896.6 | 4,759.5 | 24.7 | 21.2 | 123.66 | -895.7 | -740.3 | 1,295.8 | 1,256.3 | 39.51 | 32.801 | | | | | | |
| 5,200.0 | 5,010.1 | 4,992.4 | 4,852.1 | 25.2 | 21.6 | 123.73 | -914.4 | -756.2 | 1,324.4 | 1,284.0 | 40.36 | 32.813 | | | | | | |
| 5,300.0 | 5,105.8 | 5,088.2 | 4,944.8 | 25.7 | 22.1 | 123.79 | -933.2 | -772.1 | 1,352.9 | 1,311.7 | 41.22 | 32.825 | | | | | | |
| 5,400.0 | 5,201.6 | 5,184.1 | 5,037.4 | 26.3 | 22.6 | 123.84 | -951.9 | -788.0 | 1,381.5 | 1,339.4 | 42.07 | 32.837 | | | | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM07D B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -150.29 | -60.8 | -34.7 | 70.0 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -150.29 | -60.8 | -34.7 | 70.0 | 69.7 | 0.30 | 236.015 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -150.29 | -60.8 | -34.7 | 70.0 | 69.4 | 0.65 | 108.439 | | |
| 300.0 | 300.0 | 299.8 | 299.7 | 0.5 | 0.5 | 52.68 | -61.8 | -33.3 | 69.1 | 68.1 | 1.00 | 69.115 | | |
| 400.0 | 399.8 | 397.4 | 397.3 | 0.7 | 0.7 | 53.31 | -65.2 | -31.4 | 68.0 | 66.6 | 1.37 | 49.815 | | |
| 432.6 | 432.3 | 429.3 | 429.1 | 0.8 | 0.7 | 54.03 | -66.9 | -31.1 | 67.9 | 66.4 | 1.49 | 45.559 | CC, ES | |
| 500.0 | 499.5 | 495.0 | 494.7 | 0.9 | 0.9 | 56.30 | -71.4 | -31.2 | 68.3 | 66.5 | 1.76 | 38.881 | | |
| 600.0 | 598.7 | 592.5 | 591.7 | 1.2 | 1.1 | 61.37 | -80.4 | -32.7 | 70.4 | 68.2 | 2.20 | 32.056 | | |
| 700.0 | 697.5 | 689.6 | 688.0 | 1.5 | 1.4 | 67.91 | -92.1 | -36.0 | 75.1 | 72.3 | 2.72 | 27.614 | | |
| 800.0 | 795.6 | 786.2 | 783.5 | 1.9 | 1.7 | 75.03 | -106.6 | -40.9 | 82.9 | 79.5 | 3.34 | 24.835 | | |
| 900.0 | 893.1 | 882.2 | 877.7 | 2.3 | 2.0 | 81.88 | -123.7 | -47.5 | 94.3 | 90.2 | 4.06 | 23.192 | | |
| 1,000.0 | 989.6 | 977.5 | 970.6 | 2.8 | 2.4 | 87.90 | -143.3 | -55.8 | 109.4 | 104.5 | 4.90 | 22.353 | | |
| 1,100.0 | 1,085.4 | 1,072.0 | 1,062.0 | 3.3 | 2.8 | 92.86 | -165.3 | -65.5 | 128.3 | 122.5 | 5.79 | 22.168 | | |
| 1,200.0 | 1,181.2 | 1,169.3 | 1,155.6 | 3.8 | 3.3 | 96.42 | -189.3 | -76.4 | 149.2 | 142.5 | 6.71 | 22.251 | | |
| 1,300.0 | 1,276.9 | 1,266.7 | 1,249.4 | 4.3 | 3.8 | 99.10 | -213.4 | -87.4 | 170.6 | 163.0 | 7.63 | 22.344 | | |
| 1,400.0 | 1,372.6 | 1,364.1 | 1,343.1 | 4.9 | 4.2 | 101.18 | -237.6 | -98.3 | 192.2 | 183.7 | 8.57 | 22.437 | | |
| 1,500.0 | 1,468.3 | 1,461.6 | 1,436.9 | 5.4 | 4.7 | 102.84 | -261.7 | -109.3 | 214.1 | 204.6 | 9.50 | 22.524 | | |
| 1,600.0 | 1,564.1 | 1,559.0 | 1,530.6 | 5.9 | 5.2 | 104.20 | -285.8 | -120.2 | 236.1 | 225.6 | 10.44 | 22.604 | | |
| 1,700.0 | 1,659.8 | 1,656.4 | 1,624.4 | 6.4 | 5.7 | 105.32 | -309.9 | -131.1 | 258.1 | 246.8 | 11.38 | 22.678 | | |
| 1,800.0 | 1,755.5 | 1,753.8 | 1,718.1 | 7.0 | 6.2 | 106.27 | -334.0 | -142.1 | 280.3 | 268.0 | 12.32 | 22.744 | | |
| 1,900.0 | 1,851.2 | 1,851.2 | 1,811.9 | 7.5 | 6.7 | 107.08 | -358.1 | -153.0 | 302.5 | 289.3 | 13.27 | 22.805 | | |
| 2,000.0 | 1,947.0 | 1,948.6 | 1,905.6 | 8.0 | 7.2 | 107.77 | -382.3 | -164.0 | 324.8 | 310.6 | 14.21 | 22.860 | | |
| 2,100.0 | 2,042.7 | 2,046.1 | 1,999.4 | 8.6 | 7.6 | 108.38 | -406.4 | -174.9 | 347.1 | 332.0 | 15.15 | 22.910 | | |
| 2,200.0 | 2,138.4 | 2,143.5 | 2,093.1 | 9.1 | 8.1 | 108.92 | -430.5 | -185.9 | 369.5 | 353.4 | 16.09 | 22.956 | | |
| 2,300.0 | 2,234.1 | 2,240.9 | 2,186.9 | 9.7 | 8.6 | 109.39 | -454.6 | -196.8 | 391.8 | 374.8 | 17.04 | 22.998 | | |
| 2,400.0 | 2,329.9 | 2,338.3 | 2,280.6 | 10.2 | 9.1 | 109.81 | -478.7 | -207.8 | 414.2 | 396.2 | 17.98 | 23.036 | | |
| 2,500.0 | 2,425.6 | 2,435.7 | 2,374.3 | 10.7 | 9.6 | 110.19 | -502.8 | -218.7 | 436.6 | 417.7 | 18.93 | 23.072 | | |
| 2,600.0 | 2,521.3 | 2,533.1 | 2,468.1 | 11.3 | 10.1 | 110.53 | -527.0 | -229.6 | 459.1 | 439.2 | 19.87 | 23.105 | | |
| 2,700.0 | 2,617.0 | 2,630.6 | 2,561.8 | 11.8 | 10.6 | 110.84 | -551.1 | -240.6 | 481.5 | 460.7 | 20.81 | 23.135 | | |
| 2,800.0 | 2,712.7 | 2,728.0 | 2,655.6 | 12.3 | 11.1 | 111.13 | -575.2 | -251.5 | 504.0 | 482.2 | 21.76 | 23.163 | | |
| 2,900.0 | 2,808.5 | 2,825.4 | 2,749.3 | 12.9 | 11.6 | 111.38 | -599.3 | -262.5 | 526.4 | 503.7 | 22.70 | 23.189 | | |
| 3,000.0 | 2,904.2 | 2,922.8 | 2,843.1 | 13.4 | 12.1 | 111.62 | -623.4 | -273.4 | 548.9 | 525.3 | 23.65 | 23.214 | | |
| 3,100.0 | 2,999.9 | 3,020.2 | 2,936.8 | 13.9 | 12.6 | 111.84 | -647.5 | -284.4 | 571.4 | 546.8 | 24.59 | 23.236 | | |
| 3,200.0 | 3,095.6 | 3,117.6 | 3,030.6 | 14.5 | 13.1 | 112.04 | -671.7 | -295.3 | 593.9 | 568.4 | 25.54 | 23.258 | | |
| 3,300.0 | 3,191.4 | 3,215.1 | 3,124.3 | 15.0 | 13.6 | 112.23 | -695.8 | -306.3 | 616.4 | 589.9 | 26.48 | 23.278 | | |
| 3,400.0 | 3,287.1 | 3,312.5 | 3,218.1 | 15.5 | 14.1 | 112.40 | -719.9 | -317.2 | 638.9 | 611.5 | 27.42 | 23.296 | | |
| 3,500.0 | 3,382.8 | 3,409.9 | 3,311.8 | 16.1 | 14.5 | 112.57 | -744.0 | -328.1 | 661.4 | 633.0 | 28.37 | 23.314 | | |
| 3,600.0 | 3,478.5 | 3,507.3 | 3,405.6 | 16.6 | 15.0 | 112.72 | -768.1 | -339.1 | 683.9 | 654.6 | 29.31 | 23.331 | | |
| 3,700.0 | 3,574.3 | 3,604.7 | 3,499.3 | 17.2 | 15.5 | 112.86 | -792.2 | -350.0 | 706.4 | 676.2 | 30.26 | 23.347 | | |
| 3,800.0 | 3,670.0 | 3,702.1 | 3,593.1 | 17.7 | 16.0 | 112.99 | -816.4 | -361.0 | 729.0 | 697.8 | 31.20 | 23.361 | | |
| 3,900.0 | 3,765.7 | 3,799.6 | 3,686.8 | 18.2 | 16.5 | 113.12 | -840.5 | -371.9 | 751.5 | 719.3 | 32.15 | 23.376 | | |
| 4,000.0 | 3,861.4 | 3,897.0 | 3,780.6 | 18.8 | 17.0 | 113.24 | -864.6 | -382.9 | 774.0 | 740.9 | 33.09 | 23.389 | | |
| 4,100.0 | 3,957.2 | 3,994.4 | 3,874.3 | 19.3 | 17.5 | 113.35 | -888.7 | -393.8 | 796.6 | 762.5 | 34.04 | 23.402 | | |
| 4,200.0 | 4,052.9 | 4,091.8 | 3,968.1 | 19.8 | 18.0 | 113.45 | -912.8 | -404.8 | 819.1 | 784.1 | 34.98 | 23.414 | | |
| 4,300.0 | 4,148.6 | 4,189.2 | 4,061.8 | 20.4 | 18.5 | 113.55 | -936.9 | -415.7 | 841.6 | 805.7 | 35.93 | 23.425 | | |
| 4,400.0 | 4,244.3 | 4,286.6 | 4,155.6 | 20.9 | 19.0 | 113.65 | -961.1 | -426.6 | 864.2 | 827.3 | 36.87 | 23.436 | | |
| 4,500.0 | 4,340.0 | 4,384.1 | 4,249.3 | 21.4 | 19.5 | 113.74 | -985.2 | -437.6 | 886.7 | 848.9 | 37.82 | 23.447 | | |
| 4,600.0 | 4,435.8 | 4,481.5 | 4,343.1 | 22.0 | 20.0 | 113.82 | -1,009.3 | -448.5 | 909.3 | 870.5 | 38.76 | 23.457 | | |
| 4,700.0 | 4,531.5 | 4,578.9 | 4,436.8 | 22.5 | 20.5 | 113.90 | -1,033.4 | -459.5 | 931.8 | 892.1 | 39.71 | 23.466 | | |
| 4,800.0 | 4,627.2 | 4,676.3 | 4,530.5 | 23.1 | 21.0 | 113.98 | -1,057.5 | -470.4 | 954.4 | 913.7 | 40.65 | 23.475 | | |
| 4,900.0 | 4,722.9 | 4,773.7 | 4,624.3 | 23.6 | 21.5 | 114.05 | -1,081.6 | -481.4 | 976.9 | 935.3 | 41.60 | 23.484 | | |
| 5,000.0 | 4,818.7 | 4,871.1 | 4,718.0 | 24.1 | 22.0 | 114.12 | -1,105.8 | -492.3 | 999.5 | 956.9 | 42.54 | 23.493 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM07D B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,100.0 | 4,914.4 | 4,968.6 | 4,811.8 | 24.7 | 22.5 | 114.19 | -1,129.9 | -503.3 | 1,022.0 | 978.5 | 43.49 | 23.501 | | |
| 5,200.0 | 5,010.1 | 5,066.0 | 4,905.5 | 25.2 | 22.9 | 114.26 | -1,154.0 | -514.2 | 1,044.6 | 1,000.1 | 44.43 | 23.508 | | |
| 5,300.0 | 5,105.8 | 5,163.4 | 4,999.3 | 25.7 | 23.4 | 114.32 | -1,178.1 | -525.1 | 1,067.1 | 1,021.7 | 45.38 | 23.516 | | |
| 5,400.0 | 5,201.6 | 5,260.8 | 5,093.0 | 26.3 | 23.9 | 114.38 | -1,202.2 | -536.1 | 1,089.7 | 1,043.4 | 46.32 | 23.523 | | |
| 5,500.0 | 5,297.3 | 5,358.2 | 5,186.8 | 26.8 | 24.4 | 114.43 | -1,226.3 | -547.0 | 1,112.2 | 1,065.0 | 47.27 | 23.530 | | |
| 5,600.0 | 5,393.0 | 5,455.6 | 5,280.5 | 27.4 | 24.9 | 114.49 | -1,250.4 | -558.0 | 1,134.8 | 1,086.6 | 48.21 | 23.536 | | |
| 5,700.0 | 5,488.7 | 5,553.1 | 5,374.3 | 27.9 | 25.4 | 114.54 | -1,274.6 | -568.9 | 1,157.4 | 1,108.2 | 49.16 | 23.543 | | |
| 5,800.0 | 5,584.5 | 5,650.5 | 5,468.0 | 28.4 | 25.9 | 114.59 | -1,298.7 | -579.9 | 1,179.9 | 1,129.8 | 50.10 | 23.549 | | |
| 5,900.0 | 5,680.2 | 5,747.9 | 5,561.8 | 29.0 | 26.4 | 114.64 | -1,322.8 | -590.8 | 1,202.5 | 1,151.4 | 51.05 | 23.555 | | |
| 6,000.0 | 5,775.9 | 5,845.3 | 5,655.5 | 29.5 | 26.9 | 114.68 | -1,346.9 | -601.8 | 1,225.0 | 1,173.0 | 51.99 | 23.561 | | |
| 6,100.0 | 5,871.6 | 5,942.7 | 5,749.3 | 30.0 | 27.4 | 114.73 | -1,371.0 | -612.7 | 1,247.6 | 1,194.7 | 52.94 | 23.566 | | |
| 6,200.0 | 5,967.3 | 6,040.1 | 5,843.0 | 30.6 | 27.9 | 114.77 | -1,395.1 | -623.6 | 1,270.2 | 1,216.3 | 53.89 | 23.572 | | |
| 6,300.0 | 6,063.1 | 6,137.6 | 5,936.8 | 31.1 | 28.4 | 114.86 | -1,419.3 | -634.6 | 1,292.7 | 1,237.9 | 54.84 | 23.574 | | |
| 6,400.0 | 6,159.4 | 6,235.2 | 6,030.7 | 31.6 | 28.9 | 115.22 | -1,443.4 | -645.6 | 1,314.4 | 1,258.6 | 55.79 | 23.559 | | |
| 6,500.0 | 6,256.6 | 6,342.0 | 6,133.7 | 32.0 | 29.4 | 115.40 | -1,469.4 | -657.4 | 1,334.5 | 1,277.8 | 56.72 | 23.529 | | |
| 6,600.0 | 6,354.5 | 6,460.7 | 6,249.0 | 32.4 | 29.9 | 115.53 | -1,494.7 | -668.8 | 1,351.9 | 1,294.3 | 57.57 | 23.482 | | |
| 6,700.0 | 6,453.1 | 6,580.4 | 6,366.5 | 32.7 | 30.3 | 115.64 | -1,515.8 | -678.4 | 1,366.3 | 1,308.0 | 58.30 | 23.436 | | |
| 6,800.0 | 6,552.3 | 6,701.0 | 6,485.7 | 32.9 | 30.7 | 115.73 | -1,532.4 | -685.9 | 1,377.6 | 1,318.7 | 58.90 | 23.391 | | |
| 6,900.0 | 6,651.8 | 6,822.3 | 6,606.2 | 33.1 | 30.9 | 115.81 | -1,544.6 | -691.5 | 1,386.0 | 1,326.6 | 59.36 | 23.350 | | |
| 7,000.0 | 6,751.6 | 6,944.0 | 6,727.6 | 33.3 | 31.1 | 115.87 | -1,552.1 | -694.9 | 1,391.2 | 1,331.5 | 59.68 | 23.311 | | |
| 7,100.0 | 6,851.5 | 7,065.9 | 6,849.5 | 33.3 | 31.2 | 115.92 | -1,554.9 | -696.1 | 1,393.4 | 1,333.5 | 59.88 | 23.268 | | |
| 7,200.0 | 6,951.5 | 7,163.5 | 6,947.1 | 33.4 | 31.3 | 32.61 | -1,555.0 | -696.3 | 1,393.5 | 1,333.5 | 60.03 | 23.213 | | |
| 7,300.0 | 7,051.5 | 7,258.7 | 7,042.3 | 33.5 | 31.4 | 32.61 | -1,555.3 | -696.8 | 1,393.5 | 1,333.3 | 60.18 | 23.154 | | |
| 7,400.0 | 7,151.5 | 7,353.8 | 7,137.4 | 33.5 | 31.4 | 32.61 | -1,555.8 | -697.6 | 1,393.6 | 1,333.2 | 60.35 | 23.092 | | |
| 7,500.0 | 7,251.5 | 7,451.1 | 7,234.7 | 33.6 | 31.5 | 32.61 | -1,556.4 | -698.8 | 1,393.6 | 1,333.1 | 60.52 | 23.028 | | |
| 7,600.0 | 7,351.5 | 7,551.1 | 7,334.7 | 33.7 | 31.6 | 32.61 | -1,557.1 | -700.0 | 1,393.6 | 1,332.9 | 60.69 | 22.961 | | |
| 7,700.0 | 7,451.5 | 7,651.1 | 7,434.7 | 33.8 | 31.7 | 32.61 | -1,557.9 | -701.2 | 1,393.6 | 1,332.7 | 60.87 | 22.894 | | |
| 7,800.0 | 7,551.5 | 7,751.1 | 7,534.7 | 33.8 | 31.8 | 32.61 | -1,558.6 | -702.5 | 1,393.6 | 1,332.5 | 61.05 | 22.828 | | |
| 7,900.0 | 7,651.5 | 7,851.1 | 7,634.7 | 33.9 | 31.9 | 32.61 | -1,559.3 | -703.7 | 1,393.6 | 1,332.3 | 61.23 | 22.760 | | |
| 8,000.0 | 7,751.5 | 7,951.1 | 7,734.6 | 34.0 | 32.0 | 32.61 | -1,560.0 | -705.0 | 1,393.6 | 1,332.1 | 61.41 | 22.693 | | |
| 8,100.0 | 7,851.5 | 8,051.1 | 7,834.6 | 34.0 | 32.1 | 32.61 | -1,560.7 | -706.2 | 1,393.6 | 1,332.0 | 61.59 | 22.626 | | |
| 8,200.0 | 7,951.5 | 8,151.1 | 7,934.6 | 34.1 | 32.2 | 32.61 | -1,561.5 | -707.4 | 1,393.5 | 1,331.8 | 61.78 | 22.558 | | |
| 8,300.0 | 8,051.4 | 8,251.1 | 8,034.6 | 34.2 | 32.3 | 32.61 | -1,562.2 | -708.7 | 1,393.5 | 1,331.6 | 61.96 | 22.491 | | |
| 8,400.0 | 8,151.4 | 8,351.1 | 8,134.6 | 34.3 | 32.4 | 32.61 | -1,562.9 | -709.9 | 1,393.5 | 1,331.4 | 62.15 | 22.423 | | |
| 8,500.0 | 8,251.4 | 8,451.1 | 8,234.6 | 34.4 | 32.5 | 32.61 | -1,563.6 | -711.2 | 1,393.5 | 1,331.2 | 62.34 | 22.355 | | |
| 8,600.0 | 8,351.4 | 8,551.1 | 8,334.6 | 34.4 | 32.6 | 32.61 | -1,564.3 | -712.4 | 1,393.5 | 1,331.0 | 62.53 | 22.287 | | |
| 8,700.0 | 8,451.4 | 8,651.1 | 8,434.6 | 34.5 | 32.7 | 32.61 | -1,565.1 | -713.7 | 1,393.5 | 1,330.8 | 62.72 | 22.219 | | |
| 8,800.0 | 8,551.4 | 8,751.1 | 8,534.6 | 34.6 | 32.8 | 32.61 | -1,565.8 | -714.9 | 1,393.5 | 1,330.6 | 62.91 | 22.151 | | |
| 8,900.0 | 8,651.4 | 8,851.1 | 8,634.6 | 34.7 | 32.9 | 32.61 | -1,566.5 | -716.1 | 1,393.5 | 1,330.4 | 63.10 | 22.083 | | |
| 9,000.0 | 8,751.4 | 8,951.1 | 8,734.5 | 34.8 | 33.0 | 32.61 | -1,567.2 | -717.4 | 1,393.5 | 1,330.2 | 63.30 | 22.015 | | |
| 9,100.0 | 8,851.4 | 9,051.1 | 8,834.5 | 34.8 | 33.1 | 32.61 | -1,567.9 | -718.6 | 1,393.5 | 1,330.0 | 63.50 | 21.947 | | |
| 9,200.0 | 8,951.3 | 9,151.1 | 8,934.5 | 34.9 | 33.2 | 32.61 | -1,568.7 | -719.9 | 1,393.5 | 1,329.8 | 63.69 | 21.878 | | |
| 9,300.0 | 9,051.3 | 9,251.1 | 9,034.5 | 35.0 | 33.3 | 32.61 | -1,569.4 | -721.1 | 1,393.5 | 1,329.6 | 63.89 | 21.810 | | |
| 9,400.0 | 9,151.3 | 9,351.1 | 9,134.5 | 35.1 | 33.4 | 32.61 | -1,570.1 | -722.4 | 1,393.5 | 1,329.4 | 64.09 | 21.742 | | |
| 9,500.0 | 9,251.3 | 9,451.1 | 9,234.5 | 35.2 | 33.5 | 32.61 | -1,570.8 | -723.6 | 1,393.5 | 1,329.2 | 64.30 | 21.674 | | |
| 9,600.0 | 9,351.3 | 9,551.1 | 9,334.5 | 35.3 | 33.6 | 32.61 | -1,571.5 | -724.8 | 1,393.5 | 1,329.0 | 64.50 | 21.605 | | |
| 9,700.0 | 9,451.3 | 9,651.1 | 9,434.5 | 35.3 | 33.7 | 32.61 | -1,572.3 | -726.1 | 1,393.5 | 1,328.8 | 64.70 | 21.537 | | |
| 9,800.0 | 9,551.3 | 9,751.1 | 9,534.5 | 35.4 | 33.8 | 32.61 | -1,573.0 | -727.3 | 1,393.5 | 1,328.6 | 64.91 | 21.469 | | |
| 9,900.0 | 9,651.3 | 9,851.1 | 9,634.5 | 35.5 | 33.9 | 32.61 | -1,573.7 | -728.6 | 1,393.5 | 1,328.4 | 65.12 | 21.401 | | |
| 10,000.0 | 9,751.3 | 9,951.1 | 9,734.4 | 35.6 | 34.0 | 32.61 | -1,574.4 | -729.8 | 1,393.5 | 1,328.2 | 65.32 | 21.332 | | |
| 10,057.6 | 9,808.8 | 10,008.7 | 9,792.0 | 35.7 | 34.1 | 32.61 | -1,574.8 | -730.5 | 1,393.5 | 1,328.1 | 65.44 | 21.293 | | |
| 10,079.7 | 9,831.0 | 10,027.7 | 9,811.0 | 35.7 | 34.1 | 32.61 | -1,575.0 | -730.8 | 1,393.5 | 1,328.0 | 65.49 | 21.279 SF | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM08B B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -149.96 | -25.9 | -15.0 | 29.9 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -149.96 | -25.9 | -15.0 | 29.9 | 29.6 | 0.30 | 100.669 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -149.96 | -25.9 | -15.0 | 29.9 | 29.2 | 0.65 | 46.253 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 56.07 | -25.9 | -15.0 | 28.9 | 27.9 | 1.00 | 28.939 | | |
| 400.0 | 399.8 | 399.8 | 399.8 | 0.7 | 0.7 | 65.61 | -25.9 | -15.0 | 26.3 | 24.9 | 1.36 | 19.286 | | |
| 500.0 | 499.5 | 499.5 | 499.5 | 0.9 | 0.8 | 84.86 | -25.9 | -15.0 | 24.0 | 22.3 | 1.77 | 13.606 | | |
| 520.1 | 519.4 | 519.4 | 519.4 | 1.0 | 0.9 | 90.00 | -25.9 | -15.0 | 23.9 | 22.1 | 1.86 | 12.904 CC, ES | | |
| 600.0 | 598.7 | 598.7 | 598.7 | 1.2 | 1.0 | 112.51 | -25.9 | -15.0 | 26.0 | 23.8 | 2.18 | 11.890 SF | | |
| 700.0 | 697.5 | 698.2 | 698.2 | 1.5 | 1.2 | 134.62 | -27.4 | -14.4 | 34.0 | 31.4 | 2.55 | 13.348 | | |
| 800.0 | 795.6 | 798.3 | 798.1 | 1.9 | 1.4 | 146.97 | -32.3 | -12.7 | 45.2 | 42.3 | 2.89 | 15.626 | | |
| 900.0 | 893.1 | 898.8 | 898.3 | 2.3 | 1.6 | 154.01 | -40.6 | -9.9 | 57.7 | 54.5 | 3.24 | 17.814 | | |
| 1,000.0 | 989.6 | 999.8 | 998.5 | 2.8 | 1.8 | 158.30 | -52.2 | -5.9 | 70.9 | 67.3 | 3.60 | 19.705 | | |
| 1,100.0 | 1,085.4 | 1,101.4 | 1,098.9 | 3.3 | 2.1 | 160.97 | -67.2 | -0.7 | 83.8 | 79.8 | 3.97 | 21.098 | | |
| 1,200.0 | 1,181.2 | 1,201.0 | 1,196.8 | 3.8 | 2.4 | 162.52 | -83.8 | 5.1 | 95.2 | 90.9 | 4.35 | 21.868 | | |
| 1,300.0 | 1,276.9 | 1,300.3 | 1,294.6 | 4.3 | 2.7 | 163.74 | -100.4 | 10.8 | 106.7 | 102.0 | 4.73 | 22.536 | | |
| 1,400.0 | 1,372.6 | 1,399.6 | 1,392.3 | 4.9 | 3.0 | 164.71 | -117.0 | 16.6 | 118.2 | 113.1 | 5.11 | 23.124 | | |
| 1,500.0 | 1,468.3 | 1,498.9 | 1,490.1 | 5.4 | 3.4 | 165.52 | -133.6 | 22.3 | 129.8 | 124.3 | 5.49 | 23.644 | | |
| 1,600.0 | 1,564.1 | 1,598.2 | 1,587.8 | 5.9 | 3.7 | 166.19 | -150.2 | 28.0 | 141.3 | 135.5 | 5.86 | 24.107 | | |
| 1,700.0 | 1,659.8 | 1,697.5 | 1,685.6 | 6.4 | 4.0 | 166.76 | -166.8 | 33.8 | 152.9 | 146.7 | 6.24 | 24.522 | | |
| 1,800.0 | 1,755.5 | 1,796.8 | 1,783.3 | 7.0 | 4.4 | 167.25 | -183.4 | 39.5 | 164.5 | 157.9 | 6.61 | 24.895 | | |
| 1,900.0 | 1,851.2 | 1,896.2 | 1,881.1 | 7.5 | 4.7 | 167.67 | -199.9 | 45.2 | 176.1 | 169.1 | 6.98 | 25.233 | | |
| 2,000.0 | 1,947.0 | 1,995.5 | 1,978.9 | 8.0 | 5.1 | 168.05 | -216.5 | 51.0 | 187.7 | 180.4 | 7.35 | 25.540 | | |
| 2,100.0 | 2,042.7 | 2,094.8 | 2,076.6 | 8.6 | 5.4 | 168.38 | -233.1 | 56.7 | 199.4 | 191.6 | 7.72 | 25.820 | | |
| 2,200.0 | 2,138.4 | 2,194.1 | 2,174.4 | 9.1 | 5.7 | 168.67 | -249.7 | 62.4 | 211.0 | 202.9 | 8.09 | 26.077 | | |
| 2,300.0 | 2,234.1 | 2,293.4 | 2,272.1 | 9.7 | 6.1 | 168.93 | -266.3 | 68.2 | 222.6 | 214.2 | 8.46 | 26.313 | | |
| 2,400.0 | 2,329.9 | 2,392.7 | 2,369.9 | 10.2 | 6.4 | 169.17 | -282.9 | 73.9 | 234.3 | 225.4 | 8.83 | 26.531 | | |
| 2,500.0 | 2,425.6 | 2,492.1 | 2,467.6 | 10.7 | 6.8 | 169.38 | -299.5 | 79.6 | 245.9 | 236.7 | 9.20 | 26.732 | | |
| 2,600.0 | 2,521.3 | 2,591.4 | 2,565.4 | 11.3 | 7.1 | 169.58 | -316.1 | 85.4 | 257.6 | 248.0 | 9.57 | 26.919 | | |
| 2,700.0 | 2,617.0 | 2,690.7 | 2,663.1 | 11.8 | 7.5 | 169.75 | -332.6 | 91.1 | 269.2 | 259.3 | 9.94 | 27.092 | | |
| 2,800.0 | 2,712.7 | 2,790.0 | 2,760.9 | 12.3 | 7.8 | 169.92 | -349.2 | 96.8 | 280.9 | 270.5 | 10.30 | 27.254 | | |
| 2,900.0 | 2,808.5 | 2,889.3 | 2,858.6 | 12.9 | 8.2 | 170.07 | -365.8 | 102.6 | 292.5 | 281.8 | 10.67 | 27.406 | | |
| 3,000.0 | 2,904.2 | 2,988.6 | 2,956.4 | 13.4 | 8.5 | 170.21 | -382.4 | 108.3 | 304.2 | 293.1 | 11.04 | 27.548 | | |
| 3,100.0 | 2,999.9 | 3,088.0 | 3,054.1 | 13.9 | 8.9 | 170.33 | -399.0 | 114.0 | 315.8 | 304.4 | 11.41 | 27.681 | | |
| 3,200.0 | 3,095.6 | 3,187.3 | 3,151.9 | 14.5 | 9.2 | 170.45 | -415.6 | 119.8 | 327.5 | 315.7 | 11.78 | 27.806 | | |
| 3,300.0 | 3,191.4 | 3,286.6 | 3,249.6 | 15.0 | 9.6 | 170.56 | -432.2 | 125.5 | 339.1 | 327.0 | 12.15 | 27.924 | | |
| 3,400.0 | 3,287.1 | 3,385.9 | 3,347.4 | 15.5 | 9.9 | 170.67 | -448.8 | 131.2 | 350.8 | 338.3 | 12.51 | 28.035 | | |
| 3,500.0 | 3,382.8 | 3,485.2 | 3,445.2 | 16.1 | 10.3 | 170.76 | -465.3 | 137.0 | 362.5 | 349.6 | 12.88 | 28.140 | | |
| 3,600.0 | 3,478.5 | 3,584.5 | 3,542.9 | 16.6 | 10.6 | 170.86 | -481.9 | 142.7 | 374.1 | 360.9 | 13.25 | 28.239 | | |
| 3,700.0 | 3,574.3 | 3,683.9 | 3,640.7 | 17.2 | 11.0 | 170.94 | -498.5 | 148.4 | 385.8 | 372.2 | 13.62 | 28.334 | | |
| 3,800.0 | 3,670.0 | 3,783.2 | 3,738.4 | 17.7 | 11.3 | 171.02 | -515.1 | 154.2 | 397.4 | 383.5 | 13.98 | 28.423 | | |
| 3,900.0 | 3,765.7 | 3,882.5 | 3,836.2 | 18.2 | 11.7 | 171.10 | -531.7 | 159.9 | 409.1 | 394.8 | 14.35 | 28.508 | | |
| 4,000.0 | 3,861.4 | 3,981.8 | 3,933.9 | 18.8 | 12.0 | 171.17 | -548.3 | 165.6 | 420.8 | 406.1 | 14.72 | 28.589 | | |
| 4,100.0 | 3,957.2 | 4,081.1 | 4,031.7 | 19.3 | 12.4 | 171.24 | -564.9 | 171.4 | 432.4 | 417.4 | 15.09 | 28.666 | | |
| 4,200.0 | 4,052.9 | 4,180.4 | 4,129.4 | 19.8 | 12.7 | 171.30 | -581.5 | 177.1 | 444.1 | 428.7 | 15.45 | 28.740 | | |
| 4,300.0 | 4,148.6 | 4,279.7 | 4,227.2 | 20.4 | 13.1 | 171.36 | -598.0 | 182.8 | 455.8 | 440.0 | 15.82 | 28.810 | | |
| 4,400.0 | 4,244.3 | 4,379.1 | 4,324.9 | 20.9 | 13.4 | 171.42 | -614.6 | 188.6 | 467.4 | 451.3 | 16.19 | 28.877 | | |
| 4,500.0 | 4,340.0 | 4,478.4 | 4,422.7 | 21.4 | 13.8 | 171.47 | -631.2 | 194.3 | 479.1 | 462.6 | 16.55 | 28.941 | | |
| 4,600.0 | 4,435.8 | 4,577.7 | 4,520.4 | 22.0 | 14.1 | 171.53 | -647.8 | 200.0 | 490.8 | 473.9 | 16.92 | 29.003 | | |
| 4,700.0 | 4,531.5 | 4,677.0 | 4,618.2 | 22.5 | 14.5 | 171.58 | -664.4 | 205.8 | 502.4 | 485.2 | 17.29 | 29.062 | | |
| 4,800.0 | 4,627.2 | 4,776.3 | 4,715.9 | 23.1 | 14.8 | 171.62 | -681.0 | 211.5 | 514.1 | 496.5 | 17.66 | 29.119 | | |
| 4,900.0 | 4,722.9 | 4,875.6 | 4,813.7 | 23.6 | 15.2 | 171.67 | -697.6 | 217.2 | 525.8 | 507.8 | 18.02 | 29.173 | | |
| 5,000.0 | 4,818.7 | 4,975.0 | 4,911.4 | 24.1 | 15.5 | 171.71 | -714.1 | 223.0 | 537.4 | 519.1 | 18.39 | 29.225 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM08B B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,100.0 | 4,914.4 | 5,074.3 | 5,009.2 | 24.7 | 15.9 | 171.76 | -730.7 | 228.7 | 549.1 | 530.4 | 18.76 | 29.275 | | |
| 5,200.0 | 5,010.1 | 5,173.6 | 5,107.0 | 25.2 | 16.2 | 171.80 | -747.3 | 234.4 | 560.8 | 541.7 | 19.12 | 29.324 | | |
| 5,300.0 | 5,105.8 | 5,272.9 | 5,204.7 | 25.7 | 16.6 | 171.83 | -763.9 | 240.2 | 572.5 | 553.0 | 19.49 | 29.370 | | |
| 5,400.0 | 5,201.6 | 5,372.2 | 5,302.5 | 26.3 | 16.9 | 171.87 | -780.5 | 245.9 | 584.1 | 564.3 | 19.86 | 29.415 | | |
| 5,500.0 | 5,297.3 | 5,471.5 | 5,400.2 | 26.8 | 17.3 | 171.91 | -797.1 | 251.6 | 595.8 | 575.6 | 20.23 | 29.458 | | |
| 5,600.0 | 5,393.0 | 5,570.9 | 5,498.0 | 27.4 | 17.6 | 171.94 | -813.7 | 257.4 | 607.5 | 586.9 | 20.59 | 29.500 | | |
| 5,700.0 | 5,488.7 | 5,670.2 | 5,595.7 | 27.9 | 18.0 | 171.97 | -830.3 | 263.1 | 619.1 | 598.2 | 20.96 | 29.540 | | |
| 5,800.0 | 5,584.5 | 5,769.5 | 5,693.5 | 28.4 | 18.3 | 172.01 | -846.8 | 268.8 | 630.8 | 609.5 | 21.33 | 29.579 | | |
| 5,900.0 | 5,680.2 | 5,868.8 | 5,791.2 | 29.0 | 18.7 | 172.04 | -863.4 | 274.6 | 642.5 | 620.8 | 21.69 | 29.617 | | |
| 6,000.0 | 5,775.9 | 5,968.1 | 5,889.0 | 29.5 | 19.0 | 172.06 | -880.0 | 280.3 | 654.2 | 632.1 | 22.06 | 29.654 | | |
| 6,100.0 | 5,871.6 | 6,067.4 | 5,986.7 | 30.0 | 19.4 | 172.09 | -896.6 | 286.0 | 665.8 | 643.4 | 22.43 | 29.689 | | |
| 6,200.0 | 5,967.3 | 6,166.8 | 6,084.5 | 30.6 | 19.7 | 172.12 | -913.2 | 291.8 | 677.5 | 654.7 | 22.79 | 29.723 | | |
| 6,300.0 | 6,063.1 | 6,266.1 | 6,182.2 | 31.1 | 20.1 | 172.15 | -929.8 | 297.5 | 689.2 | 666.0 | 23.16 | 29.750 | | |
| 6,400.0 | 6,159.4 | 6,365.6 | 6,280.2 | 31.6 | 20.4 | 172.18 | -946.4 | 303.2 | 698.7 | 675.1 | 23.56 | 29.654 | | |
| 6,500.0 | 6,256.6 | 6,465.4 | 6,378.4 | 32.0 | 20.8 | 172.16 | -963.1 | 309.0 | 704.8 | 680.9 | 23.95 | 29.425 | | |
| 6,600.0 | 6,354.5 | 6,547.2 | 6,459.1 | 32.4 | 21.1 | 172.12 | -975.8 | 313.4 | 708.7 | 684.4 | 24.29 | 29.174 | | |
| 6,700.0 | 6,453.1 | 6,627.6 | 6,538.7 | 32.7 | 21.3 | 172.09 | -986.2 | 317.0 | 711.8 | 687.2 | 24.60 | 28.933 | | |
| 6,800.0 | 6,552.3 | 6,700.0 | 6,610.7 | 32.9 | 21.4 | 172.07 | -993.8 | 319.6 | 714.3 | 689.5 | 24.87 | 28.717 | | |
| 6,900.0 | 6,651.8 | 6,788.4 | 6,698.8 | 33.1 | 21.6 | 172.05 | -1,000.7 | 322.0 | 716.0 | 690.8 | 25.15 | 28.469 | | |
| 7,000.0 | 6,751.6 | 6,868.7 | 6,779.0 | 33.3 | 21.7 | 172.04 | -1,004.7 | 323.4 | 717.0 | 691.6 | 25.39 | 28.243 | | |
| 7,100.0 | 6,851.5 | 6,949.0 | 6,859.3 | 33.3 | 21.8 | 172.03 | -1,006.6 | 324.0 | 717.3 | 691.7 | 25.60 | 28.020 | | |
| 7,200.0 | 6,951.5 | 7,041.2 | 6,951.5 | 33.4 | 21.9 | 88.72 | -1,006.8 | 324.0 | 717.2 | 691.3 | 25.89 | 27.701 | | |
| 7,300.0 | 7,051.5 | 7,141.2 | 7,051.4 | 33.5 | 22.0 | 88.73 | -1,007.0 | 323.6 | 717.2 | 691.0 | 26.23 | 27.341 | | |
| 7,400.0 | 7,151.5 | 7,241.1 | 7,151.4 | 33.5 | 22.1 | 88.73 | -1,007.5 | 322.8 | 717.2 | 690.7 | 26.58 | 26.985 | | |
| 7,500.0 | 7,251.5 | 7,341.1 | 7,251.3 | 33.6 | 22.2 | 88.73 | -1,008.2 | 321.7 | 717.2 | 690.3 | 26.93 | 26.634 | | |
| 7,600.0 | 7,351.5 | 7,441.1 | 7,351.3 | 33.7 | 22.3 | 88.73 | -1,008.9 | 320.4 | 717.2 | 689.9 | 27.28 | 26.292 | | |
| 7,700.0 | 7,451.5 | 7,541.1 | 7,451.3 | 33.8 | 22.4 | 88.73 | -1,009.6 | 319.2 | 717.2 | 689.6 | 27.63 | 25.959 | | |
| 7,800.0 | 7,551.5 | 7,641.1 | 7,551.3 | 33.8 | 22.5 | 88.73 | -1,010.3 | 317.9 | 717.2 | 689.2 | 27.98 | 25.633 | | |
| 7,900.0 | 7,651.5 | 7,741.1 | 7,651.3 | 33.9 | 22.6 | 88.73 | -1,011.0 | 316.7 | 717.2 | 688.9 | 28.33 | 25.316 | | |
| 8,000.0 | 7,751.5 | 7,841.1 | 7,751.3 | 34.0 | 22.7 | 88.73 | -1,011.8 | 315.5 | 717.2 | 688.5 | 28.68 | 25.007 | | |
| 8,100.0 | 7,851.5 | 7,941.1 | 7,851.3 | 34.0 | 22.9 | 88.73 | -1,012.5 | 314.2 | 717.2 | 688.2 | 29.03 | 24.705 | | |
| 8,200.0 | 7,951.5 | 8,041.1 | 7,951.2 | 34.1 | 23.0 | 88.73 | -1,013.2 | 313.0 | 717.2 | 687.8 | 29.38 | 24.410 | | |
| 8,300.0 | 8,051.4 | 8,141.1 | 8,051.2 | 34.2 | 23.1 | 88.73 | -1,013.9 | 311.7 | 717.2 | 687.5 | 29.73 | 24.122 | | |
| 8,400.0 | 8,151.4 | 8,241.1 | 8,151.2 | 34.3 | 23.2 | 88.73 | -1,014.6 | 310.5 | 717.2 | 687.1 | 30.08 | 23.840 | | |
| 8,500.0 | 8,251.4 | 8,341.1 | 8,251.2 | 34.4 | 23.3 | 88.73 | -1,015.4 | 309.2 | 717.2 | 686.8 | 30.43 | 23.565 | | |
| 8,600.0 | 8,351.4 | 8,441.1 | 8,351.2 | 34.4 | 23.4 | 88.73 | -1,016.1 | 308.0 | 717.2 | 686.4 | 30.79 | 23.297 | | |
| 8,700.0 | 8,451.4 | 8,541.1 | 8,451.2 | 34.5 | 23.5 | 88.73 | -1,016.8 | 306.8 | 717.2 | 686.1 | 31.14 | 23.034 | | |
| 8,800.0 | 8,551.4 | 8,641.1 | 8,551.2 | 34.6 | 23.6 | 88.73 | -1,017.5 | 305.5 | 717.2 | 685.7 | 31.49 | 22.777 | | |
| 8,900.0 | 8,651.4 | 8,741.1 | 8,651.2 | 34.7 | 23.8 | 88.73 | -1,018.2 | 304.3 | 717.2 | 685.4 | 31.84 | 22.526 | | |
| 9,000.0 | 8,751.4 | 8,841.1 | 8,751.2 | 34.8 | 23.9 | 88.73 | -1,018.9 | 303.0 | 717.2 | 685.0 | 32.19 | 22.280 | | |
| 9,100.0 | 8,851.4 | 8,941.1 | 8,851.2 | 34.8 | 24.0 | 88.73 | -1,019.7 | 301.8 | 717.2 | 684.6 | 32.54 | 22.040 | | |
| 9,200.0 | 8,951.3 | 9,041.1 | 8,951.1 | 34.9 | 24.1 | 88.73 | -1,020.4 | 300.5 | 717.2 | 684.3 | 32.89 | 21.804 | | |
| 9,300.0 | 9,051.3 | 9,141.1 | 9,051.1 | 35.0 | 24.2 | 88.73 | -1,021.1 | 299.3 | 717.2 | 683.9 | 33.24 | 21.574 | | |
| 9,400.0 | 9,151.3 | 9,241.1 | 9,151.1 | 35.1 | 24.4 | 88.73 | -1,021.8 | 298.1 | 717.2 | 683.6 | 33.59 | 21.349 | | |
| 9,500.0 | 9,251.3 | 9,341.1 | 9,251.1 | 35.2 | 24.5 | 88.73 | -1,022.5 | 296.8 | 717.2 | 683.2 | 33.94 | 21.128 | | |
| 9,600.0 | 9,351.3 | 9,441.1 | 9,351.1 | 35.3 | 24.6 | 88.73 | -1,023.3 | 295.6 | 717.2 | 682.9 | 34.30 | 20.911 | | |
| 9,700.0 | 9,451.3 | 9,541.1 | 9,451.1 | 35.3 | 24.7 | 88.73 | -1,024.0 | 294.3 | 717.2 | 682.5 | 34.65 | 20.699 | | |
| 9,800.0 | 9,551.3 | 9,641.1 | 9,551.1 | 35.4 | 24.8 | 88.73 | -1,024.7 | 293.1 | 717.2 | 682.2 | 35.00 | 20.491 | | |
| 9,900.0 | 9,651.3 | 9,741.1 | 9,651.1 | 35.5 | 25.0 | 88.73 | -1,025.4 | 291.8 | 717.2 | 681.8 | 35.35 | 20.288 | | |
| 10,000.0 | 9,751.3 | 9,841.1 | 9,751.1 | 35.6 | 25.1 | 88.73 | -1,026.1 | 290.6 | 717.2 | 681.5 | 35.70 | 20.088 | | |
| 10,079.7 | 9,831.0 | 9,920.8 | 9,830.8 | 35.7 | 25.2 | 88.73 | -1,026.7 | 289.6 | 717.2 | 681.2 | 35.98 | 19.931 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM08C B21 696 - DD - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: O-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -150.02 | -17.1 | -9.9 | 19.8 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -150.02 | -17.1 | -9.9 | 19.8 | 19.5 | 0.30 | 66.595 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -150.02 | -17.1 | -9.9 | 19.8 | 19.1 | 0.65 | 30.598 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 57.51 | -17.1 | -9.9 | 18.8 | 17.8 | 1.00 | 18.817 | | |
| 400.0 | 399.8 | 399.6 | 399.6 | 0.7 | 0.7 | 67.55 | -18.7 | -9.3 | 17.2 | 15.9 | 1.37 | 12.619 | | |
| 500.0 | 499.5 | 499.3 | 499.2 | 0.9 | 0.9 | 79.31 | -23.6 | -7.5 | 16.5 | 14.8 | 1.78 | 9.274 | | |
| 524.8 | 524.1 | 524.1 | 523.8 | 1.0 | 0.9 | 82.36 | -25.4 | -6.9 | 16.5 | 14.6 | 1.90 | 8.674 CC | | |
| 600.0 | 598.7 | 599.2 | 598.6 | 1.2 | 1.1 | 91.56 | -31.8 | -4.6 | 16.8 | 14.5 | 2.27 | 7.389 ES | | |
| 700.0 | 697.5 | 699.2 | 697.9 | 1.5 | 1.3 | 102.84 | -43.2 | -0.5 | 18.0 | 15.1 | 2.83 | 6.357 | | |
| 800.0 | 795.6 | 799.3 | 796.7 | 1.9 | 1.6 | 112.19 | -58.0 | 4.8 | 19.9 | 16.5 | 3.42 | 5.822 | | |
| 900.0 | 893.1 | 899.5 | 895.1 | 2.3 | 2.0 | 119.42 | -75.9 | 11.3 | 22.5 | 18.5 | 4.06 | 5.554 | | |
| 1,000.0 | 989.6 | 999.6 | 992.8 | 2.8 | 2.4 | 125.33 | -96.9 | 18.8 | 25.7 | 21.0 | 4.70 | 5.476 SF | | |
| 1,100.0 | 1,085.4 | 1,099.4 | 1,089.9 | 3.3 | 2.8 | 133.07 | -118.3 | 26.5 | 30.6 | 25.4 | 5.19 | 5.901 | | |
| 1,200.0 | 1,181.2 | 1,199.2 | 1,187.1 | 3.8 | 3.2 | 138.93 | -139.8 | 34.2 | 36.2 | 30.5 | 5.63 | 6.425 | | |
| 1,300.0 | 1,276.9 | 1,299.0 | 1,284.2 | 4.3 | 3.6 | 143.20 | -161.2 | 41.9 | 42.0 | 35.9 | 6.05 | 6.942 | | |
| 1,400.0 | 1,372.6 | 1,398.8 | 1,381.4 | 4.9 | 4.1 | 146.42 | -182.6 | 49.6 | 48.0 | 41.5 | 6.46 | 7.430 | | |
| 1,500.0 | 1,468.3 | 1,498.6 | 1,478.5 | 5.4 | 4.5 | 148.92 | -204.1 | 57.3 | 54.1 | 47.2 | 6.86 | 7.880 | | |
| 1,600.0 | 1,564.1 | 1,598.4 | 1,575.7 | 5.9 | 4.9 | 150.91 | -225.5 | 65.0 | 60.3 | 53.0 | 7.27 | 8.294 | | |
| 1,700.0 | 1,659.8 | 1,698.2 | 1,672.8 | 6.4 | 5.3 | 152.53 | -247.0 | 72.7 | 66.5 | 58.9 | 7.67 | 8.672 | | |
| 1,800.0 | 1,755.5 | 1,797.9 | 1,770.0 | 7.0 | 5.8 | 153.87 | -268.4 | 80.4 | 72.8 | 64.7 | 8.08 | 9.017 | | |
| 1,900.0 | 1,851.2 | 1,897.7 | 1,867.1 | 7.5 | 6.2 | 154.99 | -289.8 | 88.1 | 79.1 | 70.7 | 8.48 | 9.334 | | |
| 2,000.0 | 1,947.0 | 1,997.5 | 1,964.3 | 8.0 | 6.6 | 155.95 | -311.3 | 95.8 | 85.5 | 76.6 | 8.88 | 9.623 | | |
| 2,100.0 | 2,042.7 | 2,097.3 | 2,061.4 | 8.6 | 7.1 | 156.78 | -332.7 | 103.5 | 91.9 | 82.6 | 9.29 | 9.889 | | |
| 2,200.0 | 2,138.4 | 2,197.1 | 2,158.6 | 9.1 | 7.5 | 157.49 | -354.2 | 111.2 | 98.3 | 88.6 | 9.70 | 10.134 | | |
| 2,300.0 | 2,234.1 | 2,296.9 | 2,255.8 | 9.7 | 7.9 | 158.12 | -375.6 | 118.9 | 104.7 | 94.6 | 10.10 | 10.360 | | |
| 2,400.0 | 2,329.9 | 2,396.7 | 2,352.9 | 10.2 | 8.4 | 158.68 | -397.1 | 126.7 | 111.1 | 100.6 | 10.51 | 10.569 | | |
| 2,500.0 | 2,425.6 | 2,496.5 | 2,450.1 | 10.7 | 8.8 | 159.18 | -418.5 | 134.4 | 117.5 | 106.6 | 10.92 | 10.763 | | |
| 2,600.0 | 2,521.3 | 2,596.3 | 2,547.2 | 11.3 | 9.2 | 159.62 | -439.9 | 142.1 | 123.9 | 112.6 | 11.32 | 10.944 | | |
| 2,700.0 | 2,617.0 | 2,696.0 | 2,644.4 | 11.8 | 9.7 | 160.03 | -461.4 | 149.8 | 130.4 | 118.6 | 11.73 | 11.112 | | |
| 2,800.0 | 2,712.7 | 2,795.8 | 2,741.5 | 12.3 | 10.1 | 160.39 | -482.8 | 157.5 | 136.8 | 124.7 | 12.14 | 11.269 | | |
| 2,900.0 | 2,808.5 | 2,895.6 | 2,838.7 | 12.9 | 10.5 | 160.72 | -504.3 | 165.2 | 143.3 | 130.7 | 12.55 | 11.416 | | |
| 3,000.0 | 2,904.2 | 2,995.4 | 2,935.8 | 13.4 | 11.0 | 161.02 | -525.7 | 172.9 | 149.7 | 136.8 | 12.96 | 11.554 | | |
| 3,100.0 | 2,999.9 | 3,095.2 | 3,033.0 | 13.9 | 11.4 | 161.30 | -547.2 | 180.6 | 156.2 | 142.8 | 13.37 | 11.684 | | |
| 3,200.0 | 3,095.6 | 3,195.0 | 3,130.1 | 14.5 | 11.8 | 161.56 | -568.6 | 188.3 | 162.6 | 148.9 | 13.78 | 11.806 | | |
| 3,300.0 | 3,191.4 | 3,294.8 | 3,227.3 | 15.0 | 12.3 | 161.79 | -590.0 | 196.0 | 169.1 | 154.9 | 14.19 | 11.920 | | |
| 3,400.0 | 3,287.1 | 3,394.6 | 3,324.4 | 15.5 | 12.7 | 162.01 | -611.5 | 203.7 | 175.6 | 161.0 | 14.60 | 12.029 | | |
| 3,500.0 | 3,382.8 | 3,494.4 | 3,421.6 | 16.1 | 13.1 | 162.21 | -632.9 | 211.4 | 182.0 | 167.0 | 15.01 | 12.132 | | |
| 3,600.0 | 3,478.5 | 3,594.1 | 3,518.7 | 16.6 | 13.6 | 162.40 | -654.4 | 219.1 | 188.5 | 173.1 | 15.41 | 12.229 | | |
| 3,700.0 | 3,574.3 | 3,693.9 | 3,615.9 | 17.2 | 14.0 | 162.58 | -675.8 | 226.8 | 195.0 | 179.2 | 15.82 | 12.321 | | |
| 3,800.0 | 3,670.0 | 3,793.7 | 3,713.0 | 17.7 | 14.4 | 162.74 | -697.3 | 234.5 | 201.5 | 185.2 | 16.24 | 12.408 | | |
| 3,900.0 | 3,765.7 | 3,893.5 | 3,810.2 | 18.2 | 14.9 | 162.90 | -718.7 | 242.2 | 207.9 | 191.3 | 16.65 | 12.492 | | |
| 4,000.0 | 3,861.4 | 3,993.3 | 3,907.3 | 18.8 | 15.3 | 163.04 | -740.1 | 249.9 | 214.4 | 197.3 | 17.06 | 12.571 | | |
| 4,100.0 | 3,957.2 | 4,093.1 | 4,004.5 | 19.3 | 15.7 | 163.18 | -761.6 | 257.6 | 220.9 | 203.4 | 17.47 | 12.646 | | |
| 4,200.0 | 4,052.9 | 4,192.9 | 4,101.7 | 19.8 | 16.2 | 163.31 | -783.0 | 265.3 | 227.4 | 209.5 | 17.88 | 12.719 | | |
| 4,300.0 | 4,148.6 | 4,292.7 | 4,198.8 | 20.4 | 16.6 | 163.43 | -804.5 | 273.0 | 233.8 | 215.6 | 18.29 | 12.787 | | |
| 4,400.0 | 4,244.3 | 4,392.5 | 4,296.0 | 20.9 | 17.0 | 163.55 | -825.9 | 280.8 | 240.3 | 221.6 | 18.70 | 12.853 | | |
| 4,500.0 | 4,340.0 | 4,492.2 | 4,393.1 | 21.4 | 17.5 | 163.66 | -847.4 | 288.5 | 246.8 | 227.7 | 19.11 | 12.916 | | |
| 4,600.0 | 4,435.8 | 4,592.0 | 4,490.3 | 22.0 | 17.9 | 163.76 | -868.8 | 296.2 | 253.3 | 233.8 | 19.52 | 12.977 | | |
| 4,700.0 | 4,531.5 | 4,691.8 | 4,587.4 | 22.5 | 18.3 | 163.86 | -890.2 | 303.9 | 259.8 | 239.8 | 19.93 | 13.034 | | |
| 4,800.0 | 4,627.2 | 4,791.6 | 4,684.6 | 23.1 | 18.8 | 163.95 | -911.7 | 311.6 | 266.3 | 245.9 | 20.34 | 13.090 | | |
| 4,900.0 | 4,722.9 | 4,891.4 | 4,781.7 | 23.6 | 19.2 | 164.04 | -933.1 | 319.3 | 272.7 | 252.0 | 20.75 | 13.143 | | |
| 5,000.0 | 4,818.7 | 4,991.2 | 4,878.9 | 24.1 | 19.7 | 164.13 | -954.6 | 327.0 | 279.2 | 258.1 | 21.16 | 13.194 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design NENE S21-T6S-R96W (B21 696 Pad) - OM08C B21 696 - DD - Plan #1 | | | | | | | | | | | | Offset Site Error: 0.0 ft | | | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|---------|---------------------------|--|
| Survey Program: O-MWD | | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 5,100.0 | 4,914.4 | 5,091.0 | 4,976.0 | 24.7 | 20.1 | 164.21 | -976.0 | 334.7 | 285.7 | 264.1 | 21.57 | 13.244 | | | |
| 5,200.0 | 5,010.1 | 5,190.8 | 5,073.2 | 25.2 | 20.5 | 164.29 | -997.5 | 342.4 | 292.2 | 270.2 | 21.99 | 13.291 | | | |
| 5,300.0 | 5,105.8 | 5,290.5 | 5,170.3 | 25.7 | 21.0 | 164.36 | -1,018.9 | 350.1 | 298.7 | 276.3 | 22.40 | 13.337 | | | |
| 5,400.0 | 5,201.6 | 5,390.3 | 5,267.5 | 26.3 | 21.4 | 164.43 | -1,040.3 | 357.8 | 305.2 | 282.4 | 22.81 | 13.381 | | | |
| 5,500.0 | 5,297.3 | 5,490.1 | 5,364.6 | 26.8 | 21.8 | 164.50 | -1,061.8 | 365.5 | 311.7 | 288.5 | 23.22 | 13.423 | | | |
| 5,600.0 | 5,393.0 | 5,589.9 | 5,461.8 | 27.4 | 22.3 | 164.57 | -1,083.2 | 373.2 | 318.2 | 294.5 | 23.63 | 13.464 | | | |
| 5,700.0 | 5,488.7 | 5,689.7 | 5,558.9 | 27.9 | 22.7 | 164.63 | -1,104.7 | 380.9 | 324.7 | 300.6 | 24.04 | 13.504 | | | |
| 5,800.0 | 5,584.5 | 5,789.5 | 5,656.1 | 28.4 | 23.1 | 164.69 | -1,126.1 | 388.6 | 331.1 | 306.7 | 24.45 | 13.542 | | | |
| 5,900.0 | 5,680.2 | 5,889.3 | 5,753.2 | 29.0 | 23.6 | 164.75 | -1,147.6 | 396.3 | 337.6 | 312.8 | 24.86 | 13.579 | | | |
| 6,000.0 | 5,775.9 | 5,989.1 | 5,850.4 | 29.5 | 24.0 | 164.80 | -1,169.0 | 404.0 | 344.1 | 318.8 | 25.28 | 13.615 | | | |
| 6,100.0 | 5,871.6 | 6,088.9 | 5,947.5 | 30.0 | 24.4 | 164.86 | -1,190.4 | 411.7 | 350.6 | 324.9 | 25.69 | 13.650 | | | |
| 6,200.0 | 5,967.3 | 6,188.6 | 6,044.7 | 30.6 | 24.9 | 164.91 | -1,211.9 | 419.4 | 357.1 | 331.0 | 26.10 | 13.683 | | | |
| 6,300.0 | 6,063.1 | 6,288.4 | 6,141.9 | 31.1 | 25.3 | 164.96 | -1,233.3 | 427.1 | 363.6 | 337.1 | 26.51 | 13.714 | | | |
| 6,400.0 | 6,159.4 | 6,387.5 | 6,238.3 | 31.6 | 25.7 | 164.95 | -1,254.6 | 434.8 | 368.0 | 341.0 | 26.96 | 13.648 | | | |
| 6,500.0 | 6,256.6 | 6,476.6 | 6,325.4 | 32.0 | 26.1 | 164.88 | -1,272.3 | 441.1 | 370.8 | 343.4 | 27.39 | 13.538 | | | |
| 6,600.0 | 6,354.5 | 6,565.6 | 6,412.9 | 32.4 | 26.4 | 164.82 | -1,287.4 | 446.6 | 373.1 | 345.3 | 27.77 | 13.433 | | | |
| 6,700.0 | 6,453.1 | 6,654.6 | 6,500.9 | 32.7 | 26.6 | 164.78 | -1,299.9 | 451.1 | 375.0 | 346.9 | 28.12 | 13.334 | | | |
| 6,800.0 | 6,552.3 | 6,743.5 | 6,589.2 | 32.9 | 26.8 | 164.74 | -1,309.9 | 454.7 | 376.5 | 348.0 | 28.44 | 13.239 | | | |
| 6,900.0 | 6,651.8 | 6,832.4 | 6,677.8 | 33.1 | 27.0 | 164.71 | -1,317.3 | 457.3 | 377.5 | 348.8 | 28.71 | 13.148 | | | |
| 7,000.0 | 6,751.6 | 6,921.3 | 6,766.5 | 33.3 | 27.1 | 164.69 | -1,322.1 | 459.0 | 378.2 | 349.2 | 28.95 | 13.061 | | | |
| 7,100.0 | 6,851.5 | 7,010.2 | 6,855.4 | 33.3 | 27.2 | 164.67 | -1,324.3 | 459.8 | 378.3 | 349.2 | 29.16 | 12.977 | | | |
| 7,200.0 | 6,951.5 | 7,106.2 | 6,951.4 | 33.4 | 27.3 | 81.36 | -1,324.5 | 459.8 | 378.3 | 348.9 | 29.42 | 12.860 | | | |
| 7,300.0 | 7,051.5 | 7,206.0 | 7,051.1 | 33.5 | 27.4 | 81.36 | -1,324.7 | 459.4 | 378.3 | 348.6 | 29.72 | 12.727 | | | |
| 7,400.0 | 7,151.5 | 7,305.7 | 7,150.9 | 33.5 | 27.5 | 81.37 | -1,325.2 | 458.5 | 378.3 | 348.3 | 30.04 | 12.594 | | | |
| 7,500.0 | 7,251.5 | 7,405.6 | 7,250.7 | 33.6 | 27.5 | 81.37 | -1,325.9 | 457.4 | 378.3 | 347.9 | 30.36 | 12.461 | | | |
| 7,600.0 | 7,351.5 | 7,505.6 | 7,350.7 | 33.7 | 27.6 | 81.37 | -1,326.6 | 456.1 | 378.3 | 347.6 | 30.69 | 12.329 | | | |
| 7,700.0 | 7,451.5 | 7,605.6 | 7,450.7 | 33.8 | 27.7 | 81.37 | -1,327.3 | 454.9 | 378.3 | 347.3 | 31.01 | 12.199 | | | |
| 7,800.0 | 7,551.5 | 7,705.6 | 7,550.7 | 33.8 | 27.8 | 81.37 | -1,328.0 | 453.6 | 378.3 | 347.0 | 31.34 | 12.072 | | | |
| 7,900.0 | 7,651.5 | 7,805.6 | 7,650.7 | 33.9 | 27.9 | 81.37 | -1,328.7 | 452.4 | 378.3 | 346.6 | 31.66 | 11.947 | | | |
| 8,000.0 | 7,751.5 | 7,905.6 | 7,750.7 | 34.0 | 28.0 | 81.37 | -1,329.4 | 451.2 | 378.3 | 346.3 | 31.99 | 11.825 | | | |
| 8,100.0 | 7,851.5 | 8,005.6 | 7,850.6 | 34.0 | 28.1 | 81.37 | -1,330.2 | 449.9 | 378.3 | 346.0 | 32.32 | 11.705 | | | |
| 8,200.0 | 7,951.5 | 8,105.6 | 7,950.6 | 34.1 | 28.2 | 81.37 | -1,330.9 | 448.7 | 378.3 | 345.7 | 32.65 | 11.587 | | | |
| 8,300.0 | 8,051.4 | 8,205.6 | 8,050.6 | 34.2 | 28.2 | 81.37 | -1,331.6 | 447.4 | 378.3 | 345.3 | 32.98 | 11.472 | | | |
| 8,400.0 | 8,151.4 | 8,305.6 | 8,150.6 | 34.3 | 28.3 | 81.37 | -1,332.3 | 446.2 | 378.3 | 345.0 | 33.31 | 11.358 | | | |
| 8,500.0 | 8,251.4 | 8,405.6 | 8,250.6 | 34.4 | 28.4 | 81.37 | -1,333.0 | 444.9 | 378.3 | 344.7 | 33.64 | 11.247 | | | |
| 8,600.0 | 8,351.4 | 8,505.6 | 8,350.6 | 34.4 | 28.5 | 81.37 | -1,333.7 | 443.7 | 378.3 | 344.3 | 33.97 | 11.137 | | | |
| 8,700.0 | 8,451.4 | 8,605.6 | 8,450.6 | 34.5 | 28.6 | 81.37 | -1,334.5 | 442.4 | 378.3 | 344.0 | 34.30 | 11.030 | | | |
| 8,800.0 | 8,551.4 | 8,705.6 | 8,550.6 | 34.6 | 28.7 | 81.37 | -1,335.2 | 441.2 | 378.3 | 343.7 | 34.63 | 10.924 | | | |
| 8,900.0 | 8,651.4 | 8,805.6 | 8,650.6 | 34.7 | 28.8 | 81.37 | -1,335.9 | 440.0 | 378.3 | 343.3 | 34.96 | 10.821 | | | |
| 9,000.0 | 8,751.4 | 8,905.6 | 8,750.6 | 34.8 | 28.9 | 81.37 | -1,336.6 | 438.7 | 378.3 | 343.0 | 35.29 | 10.719 | | | |
| 9,100.0 | 8,851.4 | 9,005.6 | 8,850.5 | 34.8 | 29.0 | 81.37 | -1,337.3 | 437.5 | 378.3 | 342.7 | 35.62 | 10.619 | | | |
| 9,200.0 | 8,951.3 | 9,105.6 | 8,950.5 | 34.9 | 29.1 | 81.37 | -1,338.0 | 436.2 | 378.3 | 342.3 | 35.96 | 10.521 | | | |
| 9,300.0 | 9,051.3 | 9,205.6 | 9,050.5 | 35.0 | 29.2 | 81.37 | -1,338.8 | 435.0 | 378.3 | 342.0 | 36.29 | 10.424 | | | |
| 9,400.0 | 9,151.3 | 9,305.6 | 9,150.5 | 35.1 | 29.3 | 81.37 | -1,339.5 | 433.7 | 378.3 | 341.7 | 36.62 | 10.329 | | | |
| 9,500.0 | 9,251.3 | 9,405.6 | 9,250.5 | 35.2 | 29.4 | 81.37 | -1,340.2 | 432.5 | 378.3 | 341.3 | 36.96 | 10.236 | | | |
| 9,600.0 | 9,351.3 | 9,505.6 | 9,350.5 | 35.3 | 29.5 | 81.37 | -1,340.9 | 431.2 | 378.3 | 341.0 | 37.29 | 10.144 | | | |
| 9,700.0 | 9,451.3 | 9,605.6 | 9,450.5 | 35.3 | 29.6 | 81.37 | -1,341.6 | 430.0 | 378.3 | 340.7 | 37.63 | 10.054 | | | |
| 9,800.0 | 9,551.3 | 9,705.6 | 9,550.5 | 35.4 | 29.7 | 81.37 | -1,342.4 | 428.7 | 378.3 | 340.3 | 37.96 | 9.965 | | | |
| 9,900.0 | 9,651.3 | 9,805.6 | 9,650.5 | 35.5 | 29.8 | 81.37 | -1,343.1 | 427.5 | 378.3 | 340.0 | 38.30 | 9.878 | | | |
| 10,000.0 | 9,751.3 | 9,905.6 | 9,750.5 | 35.6 | 29.9 | 81.37 | -1,343.8 | 426.3 | 378.3 | 339.7 | 38.63 | 9.792 | | | |
| 10,079.7 | 9,831.0 | 9,985.3 | 9,830.2 | 35.7 | 30.0 | 81.37 | -1,344.4 | 425.3 | 378.3 | 339.4 | 38.90 | 9.725 | | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| Company: | Berry Petroleum Company (NAD 83) | Local Co-ordinate Reference: | Well OM08D B21 696 |
| Project: | Garfield County | TVD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Reference Site: | NENE S21-T6S-R96W (B21 696 Pad) | MD Reference: | KBE @ 8293.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | OM08D B21 696 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | DD | Database: | EDM 5000.1 US Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to KBE @ 8293.0ft (Original Well Elev)
 Offset Depths are relative to Offset Datum
 Central Meridian is -105.500000 °

Coordinates are relative to: OM08D B21 696
 Coordinate System is US State Plane 1983, Colorado Central Zone
 Grid Convergence at Surface is: -1.65°

