



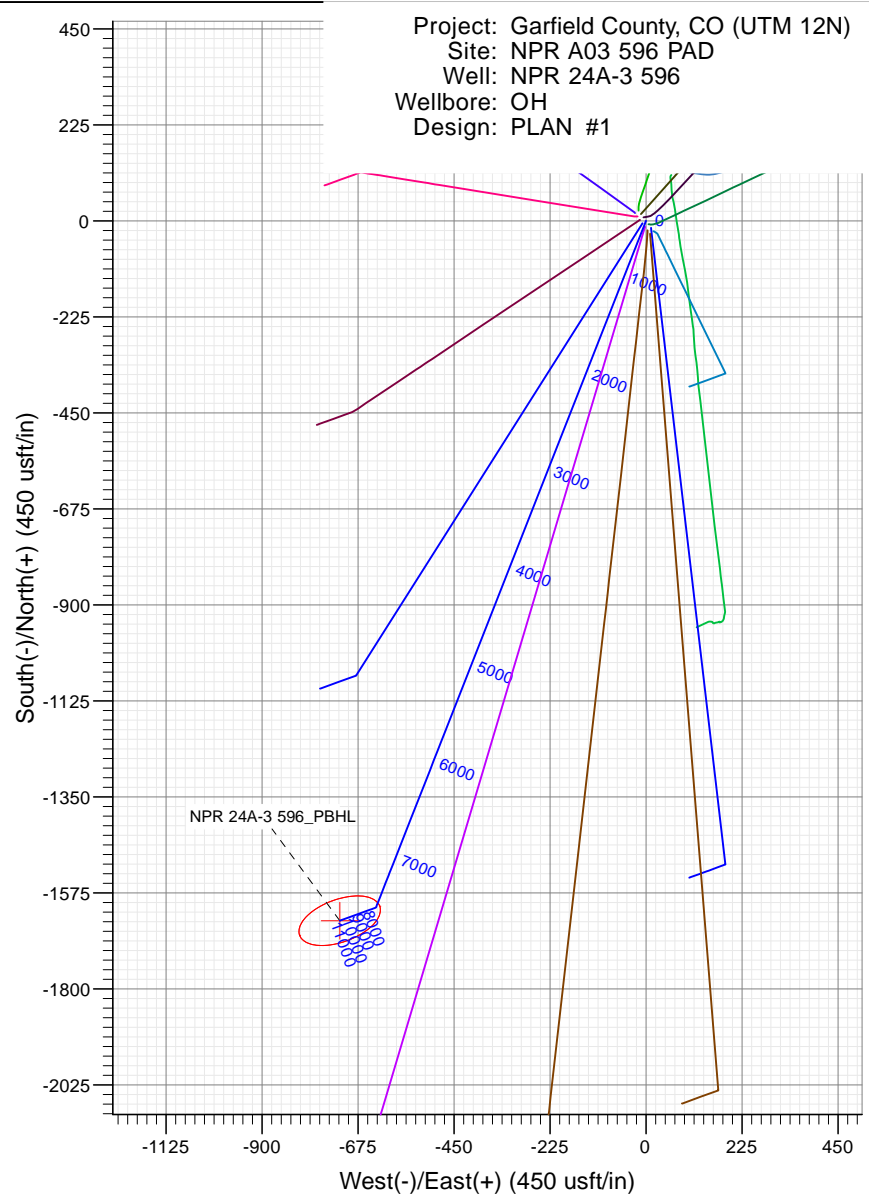
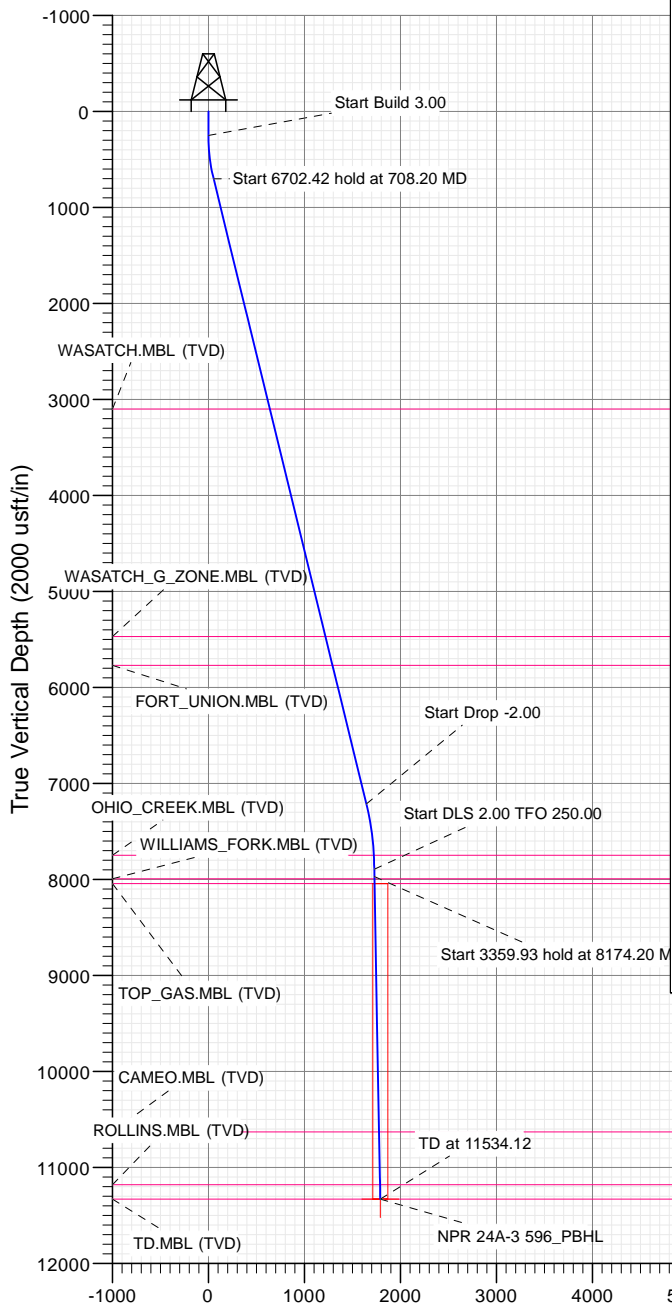
## SECTION DETAILS

| Sec | MD       | Inc   | Azi    | TVD      | +N/-S    | +E/-W   | Dleg | TFace  | VSect   | Target             |
|-----|----------|-------|--------|----------|----------|---------|------|--------|---------|--------------------|
| 1   | 0.00     | 0.00  | 0.00   | 0.00     | 0.00     | 0.00    | 0.00 | 0.00   | 0.00    |                    |
| 2   | 250.00   | 0.00  | 0.00   | 250.00   | 0.00     | 0.00    | 0.00 | 0.00   | 0.00    |                    |
| 3   | 708.20   | 13.75 | 201.46 | 703.82   | -50.91   | -20.01  | 3.00 | 201.46 | 54.66   |                    |
| 4   | 7410.62  | 13.75 | 201.46 | 7214.27  | -1533.12 | -602.67 | 0.00 | 0.00   | 1646.14 |                    |
| 5   | 8097.93  | 0.00  | 0.00   | 7895.00  | -1609.48 | -632.69 | 2.00 | 180.00 | 1728.14 |                    |
| 6   | 8174.20  | 1.53  | 250.00 | 7971.26  | -1609.83 | -633.64 | 2.00 | 250.00 | 1728.84 |                    |
| 7   | 11534.12 | 1.53  | 250.00 | 11330.00 | -1640.42 | -717.69 | 0.00 | 0.00   | 1790.55 | NPR 24A-3 596_PBHL |

PLAN #1  
NPR 24A-3 596  
GL+KB @ 8381.00sft (Original Well Elev)  
Ground Level @ 8331.00  
NAD 1983 - Western US  
Well NPR 24A-3 596, True North

| Type               | Target               | Azimuth | Origin | Type | N/S  | E/W  | From | TVD  |
|--------------------|----------------------|---------|--------|------|------|------|------|------|
| TD                 | No Target (Freehand) | 203.63  | Slot   | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| Name               |                      |         |        |      |      |      |      |      |
| NPR 24A-3 596_PBHL |                      |         |        |      |      |      |      |      |

Project: Garfield County, CO (UTM 12N)  
Site: NPR A03 596 PAD  
Well: NPR 24A-3 596  
Wellbore: OH  
Design: PLAN #1



## FORMATION TOP DETAILS

| TVDPPath | MDPath   | Formation                |
|----------|----------|--------------------------|
| 3100.00  | 3175.04  | WASATCH.MBL (TVD)        |
| 5470.00  | 5614.92  | WASATCH_G_ZONE.MBL (TVD) |
| 5770.00  | 5923.76  | FORT_UNION.MBL (TVD)     |
| 7749.00  | 7951.86  | OHIO_CREEK.MBL (TVD)     |
| 7995.00  | 8197.94  | WILLIAMS_FORK.MBL (TVD)  |
| 8045.00  | 8247.96  | TOP_GAS.MBL (TVD)        |
| 10630.00 | 10833.88 | CAMEO.MBL (TVD)          |
| 11180.00 | 11384.07 | ROLLINS.MBL (TVD)        |
| 11330.00 | 11534.12 | TD.MBL (TVD)             |



Azimuths to True North  
Magnetic North: 9.65°  
Magnetic Field  
Strength: 51422.6snT  
Dip Angle: 65.90°  
Date: 5/10/2018  
Model: HDGM

Vertical Section at 203.63° (2000 usft/in)

WELL DETAILS: NPR 24A-3 596

|       |       |             |            |           |             |
|-------|-------|-------------|------------|-----------|-------------|
| +N/-S | +E/-W | Northing    | Easting    | Latitude  | Longitude   |
| 0.00  | 0.00  | 14410500.30 | 2443449.90 | 39.647633 | -108.147451 |

CATHEDRAL



# Cathedral Energy Services

## Planning Report

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | USA EDM 5000 Multi Users DB   | <b>Local Co-ordinate Reference:</b> | Well NPR 24A-3 596                       |
| <b>Company:</b>  | Caerus Oil & Gas              | <b>TVD Reference:</b>               | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Project:</b>  | Garfield County, CO (UTM 12N) | <b>MD Reference:</b>                | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Site:</b>     | NPR A03 596 PAD               | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | NPR 24A-3 596                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                            |                                     |  |
| <b>Design:</b>   | PLAN #1                       |                                     |  |

|                    |  |                      |                |
|--------------------|--|----------------------|----------------|
| <b>Project</b>     | Garfield County, CO (UTM 12N)                  |                      |                |
| <b>Map System:</b> | Universal Transverse Mercator (US Survey Feet) | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | NAD 1927 - Western US                          |                      |                |
| <b>Map Zone:</b>   | Zone 12N (114 W to 108 W)                      |                      |                |

| Site                  |           | NPR A03 596 PAD |                    |                   |             |
|-----------------------|-----------|-----------------|--------------------|-------------------|-------------|
| Site Position:        |           | Northing:       | 14,410,524.00 usft | Latitude:         | 39.647700   |
| From:                 | Map       | Easting:        | 2,443,431.60 usft  | Longitude:        | -108.147513 |
| Position Uncertainty: | 3.28 usft | Slot Radius:    | 13-3/16"           | Grid Convergence: | 1.82 °      |

|                      |               |           |                     |                    |               |               |
|----------------------|---------------|-----------|---------------------|--------------------|---------------|---------------|
| Well                 | NPR 24A-3 596 |           |                     |                    |               |               |
| Well Position        | +N/-S         | 0.00 usft | Northing:           | 14,410,500.30 usft | Latitude:     | 39.647633     |
|                      | +E/-W         | 0.00 usft | Easting:            | 2,443,449.90 usft  | Longitude:    | -108.147451   |
| Position Uncertainty |               | 3.28 usft | Wellhead Elevation: | usft               | Ground Level: | 8,331.00 usft |

|                  |                   |                    |                    |                  |                       |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| <b>Wellbore</b>  | OH                |                    |                    |                  |                       |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination</b> | <b>Dip Angle</b> | <b>Field Strength</b> |
|                  |                   |                    | (°)                | (°)              | (nT)                  |
|                  | HDGM              | 5/10/2018          | 9.65               | 65.90            | 51,422.60000000       |

|                          |                         |              |                      |                  |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| <b>Design</b>            | PLAN #1                 |              |                      |                  |
| <b>Audit Notes:</b>      |                         |              |                      |                  |
| <b>Version:</b>          | <b>Phase:</b>           | PLAN         | <b>Tie On Depth:</b> | 0.00             |
| <b>Vertical Section:</b> | <b>Depth From (TVD)</b> | <b>+N/-S</b> | <b>+E/-W</b>         | <b>Direction</b> |
|                          | (usft)                  | (usft)       | (usft)               | (°)              |
|                          | 0.00                    | 0.00         | 0.00                 | 203.63           |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |                   |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|-------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target            |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 250.00                | 0.00            | 0.00        | 250.00                | 0.00         | 0.00         | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 708.20                | 13.75           | 201.46      | 703.82                | -50.91       | -20.01       | 3.00                    | 3.00                   | 0.00                  | 201.46  |                   |
| 7,410.62              | 13.75           | 201.46      | 7,214.27              | -1,533.12    | -602.67      | 0.00                    | 0.00                   | 0.00                  | 0.00    |                   |
| 8,097.93              | 0.00            | 0.00        | 7,895.00              | -1,609.48    | -632.69      | 2.00                    | -2.00                  | 0.00                  | 180.00  |                   |
| 8,174.20              | 1.53            | 250.00      | 7,971.26              | -1,609.83    | -633.64      | 2.00                    | 2.00                   | -144.22               | 250.00  |                   |
| 11,534.12             | 1.53            | 250.00      | 11,330.00             | -1,640.42    | -717.69      | 0.00                    | 0.00                   | 0.00                  | 0.00    | NPR 24A-3 596_PBH |

# Cathedral Energy Services

## Planning Report

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | USA EDM 5000 Multi Users DB   | <b>Local Co-ordinate Reference:</b> | Well NPR 24A-3 596                       |
| <b>Company:</b>  | Caerus Oil & Gas              | <b>TVD Reference:</b>               | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Project:</b>  | Garfield County, CO (UTM 12N) | <b>MD Reference:</b>                | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Site:</b>     | NPR A03 596 PAD               | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | NPR 24A-3 596                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                            |                                     |  |
| <b>Design:</b>   | PLAN #1                       |                                     |  |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                     |                                 |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|---------------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations           |
| 0.00                  | 0.00            | 0.00        | 0.00                  | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                |                                 |
| 100.00                | 0.00            | 0.00        | 100.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                |                                 |
| 200.00                | 0.00            | 0.00        | 200.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                |                                 |
| 250.00                | 0.00            | 0.00        | 250.00                | 0.00         | 0.00         | 0.00                    | 0.00                    | 0.00                | Start Build 3.00                |
| 300.00                | 1.50            | 201.46      | 299.99                | -0.61        | -0.24        | 0.65                    | 3.00                    | 3.00                |                                 |
| 400.00                | 4.50            | 201.46      | 399.85                | -5.48        | -2.15        | 5.88                    | 3.00                    | 3.00                |                                 |
| 500.00                | 7.50            | 201.46      | 499.29                | -15.21       | -5.98        | 16.33                   | 3.00                    | 3.00                |                                 |
| 600.00                | 10.50           | 201.46      | 598.04                | -29.76       | -11.70       | 31.96                   | 3.00                    | 3.00                |                                 |
| 700.00                | 13.50           | 201.46      | 695.85                | -49.11       | -19.31       | 52.73                   | 3.00                    | 3.00                |                                 |
| 708.20                | 13.75           | 201.46      | 703.82                | -50.91       | -20.01       | 54.66                   | 3.00                    | 3.00                | Start 6702.42 hold at 708.20 MD |
| 800.00                | 13.75           | 201.46      | 792.99                | -71.21       | -27.99       | 76.46                   | 0.00                    | 0.00                |                                 |
| 900.00                | 13.75           | 201.46      | 890.12                | -93.32       | -36.69       | 100.20                  | 0.00                    | 0.00                |                                 |
| 1,000.00              | 13.75           | 201.46      | 987.26                | -115.44      | -45.38       | 123.95                  | 0.00                    | 0.00                |                                 |
| 1,100.00              | 13.75           | 201.46      | 1,084.40              | -137.55      | -54.07       | 147.69                  | 0.00                    | 0.00                |                                 |
| 1,200.00              | 13.75           | 201.46      | 1,181.53              | -159.67      | -62.77       | 171.44                  | 0.00                    | 0.00                |                                 |
| 1,300.00              | 13.75           | 201.46      | 1,278.67              | -181.78      | -71.46       | 195.18                  | 0.00                    | 0.00                |                                 |
| 1,400.00              | 13.75           | 201.46      | 1,375.80              | -203.90      | -80.15       | 218.93                  | 0.00                    | 0.00                |                                 |
| 1,500.00              | 13.75           | 201.46      | 1,472.94              | -226.01      | -88.85       | 242.67                  | 0.00                    | 0.00                |                                 |
| 1,600.00              | 13.75           | 201.46      | 1,570.07              | -248.13      | -97.54       | 266.42                  | 0.00                    | 0.00                |                                 |
| 1,700.00              | 13.75           | 201.46      | 1,667.21              | -270.24      | -106.23      | 290.16                  | 0.00                    | 0.00                |                                 |
| 1,800.00              | 13.75           | 201.46      | 1,764.35              | -292.36      | -114.93      | 313.91                  | 0.00                    | 0.00                |                                 |
| 1,900.00              | 13.75           | 201.46      | 1,861.48              | -314.47      | -123.62      | 337.65                  | 0.00                    | 0.00                |                                 |
| 2,000.00              | 13.75           | 201.46      | 1,958.62              | -336.58      | -132.31      | 361.40                  | 0.00                    | 0.00                |                                 |
| 2,100.00              | 13.75           | 201.46      | 2,055.75              | -358.70      | -141.01      | 385.14                  | 0.00                    | 0.00                |                                 |
| 2,200.00              | 13.75           | 201.46      | 2,152.89              | -380.81      | -149.70      | 408.89                  | 0.00                    | 0.00                |                                 |
| 2,300.00              | 13.75           | 201.46      | 2,250.03              | -402.93      | -158.39      | 432.63                  | 0.00                    | 0.00                |                                 |
| 2,400.00              | 13.75           | 201.46      | 2,347.16              | -425.04      | -167.08      | 456.38                  | 0.00                    | 0.00                |                                 |
| 2,500.00              | 13.75           | 201.46      | 2,444.30              | -447.16      | -175.78      | 480.12                  | 0.00                    | 0.00                |                                 |
| 2,600.00              | 13.75           | 201.46      | 2,541.43              | -469.27      | -184.47      | 503.87                  | 0.00                    | 0.00                |                                 |
| 2,700.00              | 13.75           | 201.46      | 2,638.57              | -491.39      | -193.16      | 527.61                  | 0.00                    | 0.00                |                                 |
| 2,800.00              | 13.75           | 201.46      | 2,735.70              | -513.50      | -201.86      | 551.36                  | 0.00                    | 0.00                |                                 |
| 2,900.00              | 13.75           | 201.46      | 2,832.84              | -535.62      | -210.55      | 575.10                  | 0.00                    | 0.00                |                                 |
| 3,000.00              | 13.75           | 201.46      | 2,929.98              | -557.73      | -219.24      | 598.85                  | 0.00                    | 0.00                |                                 |
| 3,100.00              | 13.75           | 201.46      | 3,027.11              | -579.85      | -227.94      | 622.59                  | 0.00                    | 0.00                |                                 |
| 3,175.04              | 13.75           | 201.46      | 3,100.00              | -596.44      | -234.46      | 640.41                  | 0.00                    | 0.00                | WASATCH.MBL (TVD)               |
| 3,200.00              | 13.75           | 201.46      | 3,124.25              | -601.96      | -236.63      | 646.34                  | 0.00                    | 0.00                |                                 |
| 3,300.00              | 13.75           | 201.46      | 3,221.38              | -624.07      | -245.32      | 670.08                  | 0.00                    | 0.00                |                                 |
| 3,400.00              | 13.75           | 201.46      | 3,318.52              | -646.19      | -254.02      | 693.83                  | 0.00                    | 0.00                |                                 |
| 3,500.00              | 13.75           | 201.46      | 3,415.66              | -668.30      | -262.71      | 717.57                  | 0.00                    | 0.00                |                                 |
| 3,600.00              | 13.75           | 201.46      | 3,512.79              | -690.42      | -271.40      | 741.32                  | 0.00                    | 0.00                |                                 |
| 3,700.00              | 13.75           | 201.46      | 3,609.93              | -712.53      | -280.10      | 765.06                  | 0.00                    | 0.00                |                                 |
| 3,800.00              | 13.75           | 201.46      | 3,707.06              | -734.65      | -288.79      | 788.81                  | 0.00                    | 0.00                |                                 |
| 3,900.00              | 13.75           | 201.46      | 3,804.20              | -756.76      | -297.48      | 812.55                  | 0.00                    | 0.00                |                                 |
| 4,000.00              | 13.75           | 201.46      | 3,901.33              | -778.88      | -306.18      | 836.29                  | 0.00                    | 0.00                |                                 |
| 4,100.00              | 13.75           | 201.46      | 3,998.47              | -800.99      | -314.87      | 860.04                  | 0.00                    | 0.00                |                                 |
| 4,200.00              | 13.75           | 201.46      | 4,095.61              | -823.11      | -323.56      | 883.78                  | 0.00                    | 0.00                |                                 |
| 4,300.00              | 13.75           | 201.46      | 4,192.74              | -845.22      | -332.26      | 907.53                  | 0.00                    | 0.00                |                                 |
| 4,400.00              | 13.75           | 201.46      | 4,289.88              | -867.33      | -340.95      | 931.27                  | 0.00                    | 0.00                |                                 |
| 4,500.00              | 13.75           | 201.46      | 4,387.01              | -889.45      | -349.64      | 955.02                  | 0.00                    | 0.00                |                                 |
| 4,600.00              | 13.75           | 201.46      | 4,484.15              | -911.56      | -358.34      | 978.76                  | 0.00                    | 0.00                |                                 |
| 4,700.00              | 13.75           | 201.46      | 4,581.29              | -933.68      | -367.03      | 1,002.51                | 0.00                    | 0.00                |                                 |
| 4,800.00              | 13.75           | 201.46      | 4,678.42              | -955.79      | -375.72      | 1,026.25                | 0.00                    | 0.00                |                                 |

# Cathedral Energy Services

## Planning Report

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | USA EDM 5000 Multi Users DB   | <b>Local Co-ordinate Reference:</b> | Well NPR 24A-3 596                       |
| <b>Company:</b>  | Caerus Oil & Gas              | <b>TVD Reference:</b>               | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Project:</b>  | Garfield County, CO (UTM 12N) | <b>MD Reference:</b>                | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Site:</b>     | NPR A03 596 PAD               | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | NPR 24A-3 596                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                            |                                     |  |
| <b>Design:</b>   | PLAN #1                       |                                     |  |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                     |                                  |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|----------------------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations            |
| 4,900.00              | 13.75           | 201.46      | 4,775.56              | -977.91      | -384.42      | 1,050.00                | 0.00                    | 0.00                |                                  |
| 5,000.00              | 13.75           | 201.46      | 4,872.69              | -1,000.02    | -393.11      | 1,073.74                | 0.00                    | 0.00                |                                  |
| 5,100.00              | 13.75           | 201.46      | 4,969.83              | -1,022.14    | -401.80      | 1,097.49                | 0.00                    | 0.00                |                                  |
| 5,200.00              | 13.75           | 201.46      | 5,066.97              | -1,044.25    | -410.50      | 1,121.23                | 0.00                    | 0.00                |                                  |
| 5,300.00              | 13.75           | 201.46      | 5,164.10              | -1,066.37    | -419.19      | 1,144.98                | 0.00                    | 0.00                |                                  |
| 5,400.00              | 13.75           | 201.46      | 5,261.24              | -1,088.48    | -427.88      | 1,168.72                | 0.00                    | 0.00                |                                  |
| 5,500.00              | 13.75           | 201.46      | 5,358.37              | -1,110.60    | -436.58      | 1,192.47                | 0.00                    | 0.00                |                                  |
| 5,600.00              | 13.75           | 201.46      | 5,455.51              | -1,132.71    | -445.27      | 1,216.21                | 0.00                    | 0.00                |                                  |
| 5,614.92              | 13.75           | 201.46      | 5,470.00              | -1,136.01    | -446.57      | 1,219.75                | 0.00                    | 0.00                | WASATCH_G_ZONE.MBL (TVD)         |
| 5,700.00              | 13.75           | 201.46      | 5,552.64              | -1,154.82    | -453.96      | 1,239.96                | 0.00                    | 0.00                |                                  |
| 5,800.00              | 13.75           | 201.46      | 5,649.78              | -1,176.94    | -462.66      | 1,263.70                | 0.00                    | 0.00                |                                  |
| 5,900.00              | 13.75           | 201.46      | 5,746.92              | -1,199.05    | -471.35      | 1,287.45                | 0.00                    | 0.00                |                                  |
| 5,923.76              | 13.75           | 201.46      | 5,770.00              | -1,204.31    | -473.41      | 1,293.09                | 0.00                    | 0.00                | FORT_UNION.MBL (TVD)             |
| 6,000.00              | 13.75           | 201.46      | 5,844.05              | -1,221.17    | -480.04      | 1,311.19                | 0.00                    | 0.00                |                                  |
| 6,100.00              | 13.75           | 201.46      | 5,941.19              | -1,243.28    | -488.74      | 1,334.94                | 0.00                    | 0.00                |                                  |
| 6,200.00              | 13.75           | 201.46      | 6,038.32              | -1,265.40    | -497.43      | 1,358.68                | 0.00                    | 0.00                |                                  |
| 6,300.00              | 13.75           | 201.46      | 6,135.46              | -1,287.51    | -506.12      | 1,382.43                | 0.00                    | 0.00                |                                  |
| 6,400.00              | 13.75           | 201.46      | 6,232.60              | -1,309.63    | -514.82      | 1,406.17                | 0.00                    | 0.00                |                                  |
| 6,500.00              | 13.75           | 201.46      | 6,329.73              | -1,331.74    | -523.51      | 1,429.92                | 0.00                    | 0.00                |                                  |
| 6,600.00              | 13.75           | 201.46      | 6,426.87              | -1,353.86    | -532.20      | 1,453.66                | 0.00                    | 0.00                |                                  |
| 6,700.00              | 13.75           | 201.46      | 6,524.00              | -1,375.97    | -540.90      | 1,477.41                | 0.00                    | 0.00                |                                  |
| 6,800.00              | 13.75           | 201.46      | 6,621.14              | -1,398.08    | -549.59      | 1,501.15                | 0.00                    | 0.00                |                                  |
| 6,900.00              | 13.75           | 201.46      | 6,718.27              | -1,420.20    | -558.28      | 1,524.90                | 0.00                    | 0.00                |                                  |
| 7,000.00              | 13.75           | 201.46      | 6,815.41              | -1,442.31    | -566.97      | 1,548.64                | 0.00                    | 0.00                |                                  |
| 7,100.00              | 13.75           | 201.46      | 6,912.55              | -1,464.43    | -575.67      | 1,572.39                | 0.00                    | 0.00                |                                  |
| 7,200.00              | 13.75           | 201.46      | 7,009.68              | -1,486.54    | -584.36      | 1,596.13                | 0.00                    | 0.00                |                                  |
| 7,300.00              | 13.75           | 201.46      | 7,106.82              | -1,508.66    | -593.05      | 1,619.87                | 0.00                    | 0.00                |                                  |
| 7,400.00              | 13.75           | 201.46      | 7,203.95              | -1,530.77    | -601.75      | 1,643.62                | 0.00                    | 0.00                |                                  |
| 7,410.62              | 13.75           | 201.46      | 7,214.27              | -1,533.12    | -602.67      | 1,646.14                | 0.00                    | 0.00                | Start Drop -2.00                 |
| 7,500.00              | 11.96           | 201.46      | 7,301.41              | -1,551.62    | -609.94      | 1,666.01                | 2.00                    | -2.00               |                                  |
| 7,600.00              | 9.96            | 201.46      | 7,399.58              | -1,569.31    | -616.90      | 1,685.00                | 2.00                    | -2.00               |                                  |
| 7,700.00              | 7.96            | 201.46      | 7,498.35              | -1,583.81    | -622.60      | 1,700.56                | 2.00                    | -2.00               |                                  |
| 7,800.00              | 5.96            | 201.46      | 7,597.61              | -1,595.08    | -627.03      | 1,712.67                | 2.00                    | -2.00               |                                  |
| 7,900.00              | 3.96            | 201.46      | 7,697.23              | -1,603.12    | -630.19      | 1,721.31                | 2.00                    | -2.00               |                                  |
| 7,951.86              | 2.92            | 201.46      | 7,749.00              | -1,606.02    | -631.33      | 1,724.42                | 2.00                    | -2.00               | OHIO_CREEK.MBL (TVD)             |
| 8,000.00              | 1.96            | 201.46      | 7,797.09              | -1,607.93    | -632.08      | 1,726.46                | 2.00                    | -2.00               |                                  |
| 8,097.93              | 0.00            | 0.00        | 7,895.00              | -1,609.49    | -632.69      | 1,728.14                | 2.00                    | -2.00               | Start DLS 2.00 TFO 250.00        |
| 8,100.00              | 0.04            | 250.00      | 7,897.07              | -1,609.49    | -632.69      | 1,728.14                | 2.00                    | 2.00                |                                  |
| 8,174.20              | 1.53            | 250.00      | 7,971.26              | -1,609.83    | -633.64      | 1,728.84                | 2.00                    | 2.00                | Start 3359.93 hold at 8174.20 MD |
| 8,197.94              | 1.53            | 250.00      | 7,995.00              | -1,610.05    | -634.24      | 1,729.27                | 0.00                    | 0.00                | WILLIAMS_FORK.MBL (TVD)          |
| 8,200.00              | 1.53            | 250.00      | 7,997.06              | -1,610.07    | -634.29      | 1,729.31                | 0.00                    | 0.00                |                                  |
| 8,247.96              | 1.53            | 250.00      | 8,045.00              | -1,610.50    | -635.49      | 1,730.19                | 0.00                    | 0.00                | TOP_GAS.MBL (TVD)                |
| 8,300.00              | 1.53            | 250.00      | 8,097.02              | -1,610.98    | -636.79      | 1,731.15                | 0.00                    | 0.00                |                                  |
| 8,400.00              | 1.53            | 250.00      | 8,196.99              | -1,611.89    | -639.29      | 1,732.98                | 0.00                    | 0.00                |                                  |
| 8,500.00              | 1.53            | 250.00      | 8,296.95              | -1,612.80    | -641.79      | 1,734.82                | 0.00                    | 0.00                |                                  |
| 8,600.00              | 1.53            | 250.00      | 8,396.92              | -1,613.71    | -644.30      | 1,736.66                | 0.00                    | 0.00                |                                  |
| 8,700.00              | 1.53            | 250.00      | 8,496.88              | -1,614.62    | -646.80      | 1,738.49                | 0.00                    | 0.00                |                                  |
| 8,800.00              | 1.53            | 250.00      | 8,596.84              | -1,615.53    | -649.30      | 1,740.33                | 0.00                    | 0.00                |                                  |
| 8,900.00              | 1.53            | 250.00      | 8,696.81              | -1,616.44    | -651.80      | 1,742.17                | 0.00                    | 0.00                |                                  |
| 9,000.00              | 1.53            | 250.00      | 8,796.77              | -1,617.35    | -654.30      | 1,744.00                | 0.00                    | 0.00                |                                  |
| 9,100.00              | 1.53            | 250.00      | 8,896.74              | -1,618.26    | -656.80      | 1,745.84                | 0.00                    | 0.00                |                                  |
| 9,200.00              | 1.53            | 250.00      | 8,996.70              | -1,619.17    | -659.30      | 1,747.68                | 0.00                    | 0.00                |                                  |

# Cathedral Energy Services

## Planning Report

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | USA EDM 5000 Multi Users DB   | <b>Local Co-ordinate Reference:</b> | Well NPR 24A-3 596                       |
| <b>Company:</b>  | Caerus Oil & Gas              | <b>TVD Reference:</b>               | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Project:</b>  | Garfield County, CO (UTM 12N) | <b>MD Reference:</b>                | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Site:</b>     | NPR A03 596 PAD               | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | NPR 24A-3 596                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                            |                                     |  |
| <b>Design:</b>   | PLAN #1                       |                                     |  |

### Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100u) | Comments / Formations               |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-------------------------------------|
| 9,300.00              | 1.53            | 250.00      | 9,096.67              | -1,620.08    | -661.81      | 1,749.51                | 0.00                    | 0.00                |                                     |
| 9,400.00              | 1.53            | 250.00      | 9,196.63              | -1,620.99    | -664.31      | 1,751.35                | 0.00                    | 0.00                |                                     |
| 9,500.00              | 1.53            | 250.00      | 9,296.60              | -1,621.90    | -666.81      | 1,753.19                | 0.00                    | 0.00                |                                     |
| 9,600.00              | 1.53            | 250.00      | 9,396.56              | -1,622.81    | -669.31      | 1,755.02                | 0.00                    | 0.00                |                                     |
| 9,700.00              | 1.53            | 250.00      | 9,496.53              | -1,623.72    | -671.81      | 1,756.86                | 0.00                    | 0.00                |                                     |
| 9,800.00              | 1.53            | 250.00      | 9,596.49              | -1,624.63    | -674.31      | 1,758.70                | 0.00                    | 0.00                |                                     |
| 9,900.00              | 1.53            | 250.00      | 9,696.45              | -1,625.54    | -676.82      | 1,760.53                | 0.00                    | 0.00                |                                     |
| 10,000.00             | 1.53            | 250.00      | 9,796.42              | -1,626.45    | -679.32      | 1,762.37                | 0.00                    | 0.00                |                                     |
| 10,100.00             | 1.53            | 250.00      | 9,896.38              | -1,627.36    | -681.82      | 1,764.21                | 0.00                    | 0.00                |                                     |
| 10,200.00             | 1.53            | 250.00      | 9,996.35              | -1,628.28    | -684.32      | 1,766.04                | 0.00                    | 0.00                |                                     |
| 10,300.00             | 1.53            | 250.00      | 10,096.31             | -1,629.19    | -686.82      | 1,767.88                | 0.00                    | 0.00                |                                     |
| 10,400.00             | 1.53            | 250.00      | 10,196.28             | -1,630.10    | -689.32      | 1,769.72                | 0.00                    | 0.00                |                                     |
| 10,500.00             | 1.53            | 250.00      | 10,296.24             | -1,631.01    | -691.82      | 1,771.55                | 0.00                    | 0.00                |                                     |
| 10,600.00             | 1.53            | 250.00      | 10,396.21             | -1,631.92    | -694.33      | 1,773.39                | 0.00                    | 0.00                |                                     |
| 10,700.00             | 1.53            | 250.00      | 10,496.17             | -1,632.83    | -696.83      | 1,775.23                | 0.00                    | 0.00                |                                     |
| 10,800.00             | 1.53            | 250.00      | 10,596.14             | -1,633.74    | -699.33      | 1,777.06                | 0.00                    | 0.00                |                                     |
| 10,833.88             | 1.53            | 250.00      | 10,630.00             | -1,634.05    | -700.18      | 1,777.69                | 0.00                    | 0.00                | CAMEO.MBL (TVD)                     |
| 10,900.00             | 1.53            | 250.00      | 10,696.10             | -1,634.65    | -701.83      | 1,778.90                | 0.00                    | 0.00                |                                     |
| 11,000.00             | 1.53            | 250.00      | 10,796.06             | -1,635.56    | -704.33      | 1,780.74                | 0.00                    | 0.00                |                                     |
| 11,100.00             | 1.53            | 250.00      | 10,896.03             | -1,636.47    | -706.83      | 1,782.58                | 0.00                    | 0.00                |                                     |
| 11,200.00             | 1.53            | 250.00      | 10,995.99             | -1,637.38    | -709.34      | 1,784.41                | 0.00                    | 0.00                |                                     |
| 11,300.00             | 1.53            | 250.00      | 11,095.96             | -1,638.29    | -711.84      | 1,786.25                | 0.00                    | 0.00                |                                     |
| 11,384.07             | 1.53            | 250.00      | 11,180.00             | -1,639.05    | -713.94      | 1,787.79                | 0.00                    | 0.00                | ROLLINS.MBL (TVD)                   |
| 11,400.00             | 1.53            | 250.00      | 11,195.92             | -1,639.20    | -714.34      | 1,788.09                | 0.00                    | 0.00                |                                     |
| 11,500.00             | 1.53            | 250.00      | 11,295.89             | -1,640.11    | -716.84      | 1,789.92                | 0.00                    | 0.00                |                                     |
| 11,534.12             | 1.53            | 250.00      | 11,330.00             | -1,640.42    | -717.69      | 1,790.55                | 0.00                    | 0.00                | TD at 11534.12 - NPR 24A-3 596_PBHL |

### Targets

| Target Name                                    | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| NPR 24A-3 596_PBHL                             | 0.00          | 0.00         | 11,330.00  | -1,640.42    | -717.69      | 14,408,837.90   | 2,442,784.70   | 39.643131 | -108.149999 |
| - hit/miss target                              |               |              |            |              |              |                 |                |           |             |
| - Shape  |               |              |            |              |              |                 |                |           |             |
| - plan hits target center                      |               |              |            |              |              |                 |                |           |             |
| - Ellipse (radii L100.00 W50.00 on 250.00 azi) |               |              |            |              |              |                 |                |           |             |

# Cathedral Energy Services

## Planning Report

|                  |                               |                                     |  |
|------------------|-------------------------------|-------------------------------------|--|
| <b>Database:</b> | USA EDM 5000 Multi Users DB   | <b>Local Co-ordinate Reference:</b> | Well NPR 24A-3 596                       |
| <b>Company:</b>  | Caerus Oil & Gas              | <b>TVD Reference:</b>               | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Project:</b>  | Garfield County, CO (UTM 12N) | <b>MD Reference:</b>                | GL+KB @ 8361.00usft (Original Well Elev) |
| <b>Site:</b>     | NPR A03 596 PAD               | <b>North Reference:</b>             | True                                     |
| <b>Well:</b>     | NPR 24A-3 596                 | <b>Survey Calculation Method:</b>   | Minimum Curvature                        |
| <b>Wellbore:</b> | OH                            |                                     |  |
| <b>Design:</b>   | PLAN #1                       |                                     |  |

| Formations            |                       |                          |           |         |                   |  |
|-----------------------|-----------------------|--------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name                     | Lithology | Dip (°) | Dip Direction (°) |  |
| 3,175.04              | 3,100.00              | WASATCH.MBL (TVD)        |           |         |                   |  |
| 5,614.92              | 5,470.00              | WASATCH_G_ZONE.MBL (TVD) |           |         |                   |  |
| 5,923.76              | 5,770.00              | FORT_UNION.MBL (TVD)     |           |         |                   |  |
| 7,951.86              | 7,749.00              | OHIO_CREEK.MBL (TVD)     |           |         |                   |  |
| 8,197.94              | 7,995.00              | WILLIAMS_FORK.MBL (TVD)  |           |         |                   |  |
| 8,247.96              | 8,045.00              | TOP_GAS.MBL (TVD)        |           |         |                   |  |
| 10,833.88             | 10,630.00             | CAMEO.MBL (TVD)          |           |         |                   |  |
| 11,384.07             | 11,180.00             | ROLLINS.MBL (TVD)        |           |         |                   |  |
| 11,534.12             | 11,330.00             | TD.MBL (TVD)             |           |         |                   |  |

| Plan Annotations      |                       |                   |              |                                  |  |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates |              |                                  |  |
|                       |                       | +N/-S (usft)      | +E/-W (usft) | Comment                          |  |
| 250.00                | 250.00                | 0.00              | 0.00         | Start Build 3.00                 |  |
| 708.20                | 703.82                | -50.91            | -20.01       | Start 6702.42 hold at 708.20 MD  |  |
| 7,410.62              | 7,214.27              | -1,533.12         | -602.67      | Start Drop -2.00                 |  |
| 8,097.93              | 7,895.00              | -1,609.49         | -632.69      | Start DLS 2.00 TFO 250.00        |  |
| 8,174.20              | 7,971.26              | -1,609.83         | -633.64      | Start 3359.93 hold at 8174.20 MD |  |
| 11,534.12             | 11,330.00             | -1,640.42         | -717.69      | TD at 11534.12                   |  |