



SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSec | Target |
|-----|---------|-------|--------|---------|---------|---------|------|--------|---------|---------------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 898.97 | 20.97 | 54.55 | 863.47 | 73.36 | 103.04 | 3.00 | 54.55 | 126.44 | |
| 4 | 5824.21 | 20.97 | 54.55 | 5482.53 | 1095.64 | 1538.87 | 0.00 | 0.00 | 1888.42 | |
| 5 | 6523.18 | 0.00 | 0.00 | 6166.00 | 1169.00 | 1641.91 | 3.00 | 180.00 | 2014.86 | |
| 6 | 6839.98 | 3.17 | 250.00 | 6482.64 | 1166.01 | 1633.68 | 1.00 | 250.00 | 2006.48 | |
| 7 | 9955.11 | 3.17 | 250.00 | 9593.00 | 1107.13 | 1471.91 | 0.00 | 0.00 | 1841.81 | NPR 23A-10 596 PBHL |

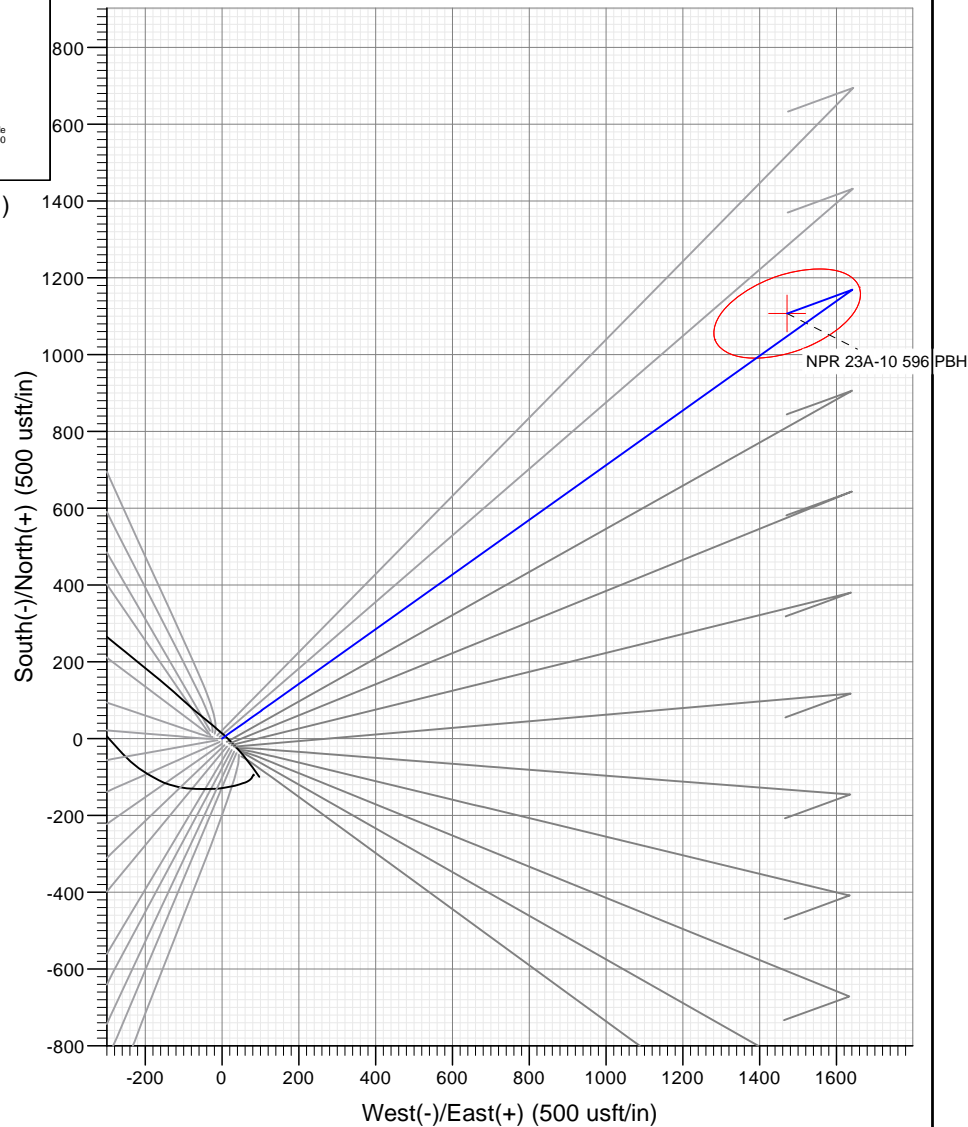
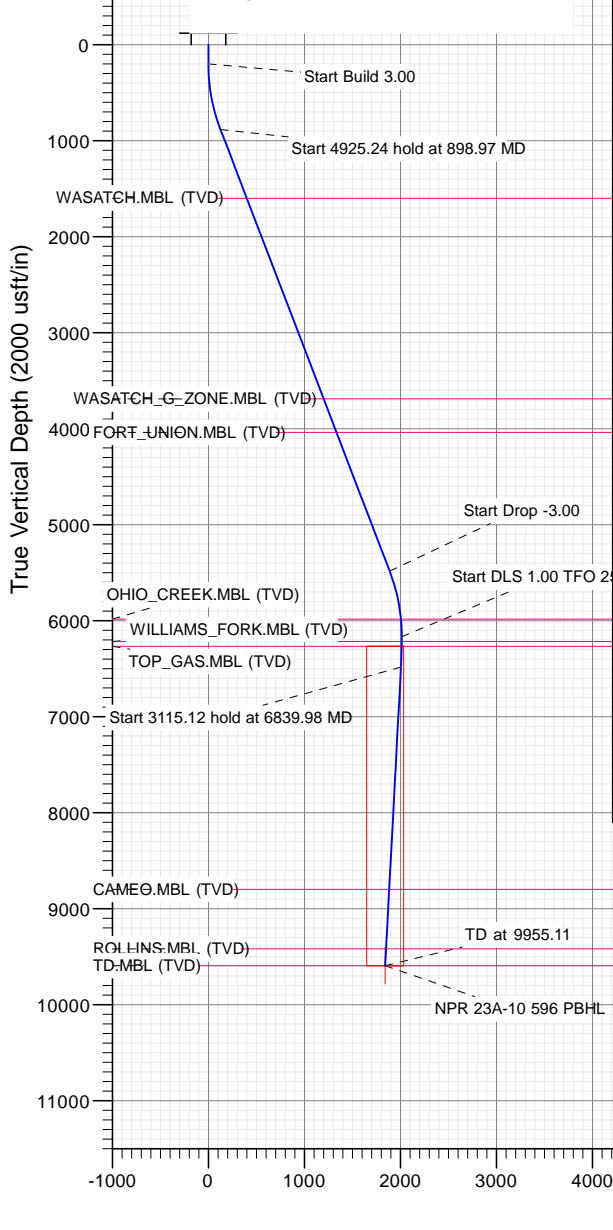
PLAN #1
NPR 23A-10 596
30' K9 @ 6753.00ft
Ground Level @ 6709.00
NAD 1987 - Western US
Well NPR 23A-10 596 - Slot NPR 23A-10 596, True North

| Type | Target | Azimuth | Origin Type | N/S | E/W | From TVD |
|------|----------------------|---------|-------------|------|------|----------|
| TD | No Target (Freehand) | 53.05 | Slot | 0.00 | 0.00 | 0.00 |

Name: NPR 23A-10 596 PBHL

| TVD | +N/-S | +E/-W | Latitude | Longitude |
|---------|---------|---------|-----------|-------------|
| 9593.00 | 1107.13 | 1471.91 | 39.630613 | -108.150100 |

Project: Garfield County, CO (UTM 12N)
Site: S10-T5S-R96W K10
Well: NPR 23A-10 596
Wellbore: OH
Design: PLAN #1



FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|---------|--------------------------|
| 1600.00 | 1666.32 | WASATCH.MBL (TVD) |
| 3689.00 | 3903.48 | WASATCH_G_ZONE.MBL (TVD) |
| 4039.00 | 4278.30 | FORT UNION.MBL (TVD) |
| 5983.00 | 6339.90 | OHIO_CREEK.MBL (TVD) |
| 6216.00 | 6573.18 | WILLIAMS_FORK.MBL (TVD) |
| 6266.00 | 6623.19 | TOP_GAS.MBL (TVD) |
| 8798.00 | 9158.89 | CAMEO.MBL (TVD) |
| 9418.00 | 9779.84 | ROLLINS.MBL (TVD) |
| 9593.00 | 9955.11 | TD.MBL (TVD) |



Azimuths to True North
Magnetic North: 9.72°

Magnetic Field
Strength: 51531.5nT
Dip Angle: 65.93°
Date: 9/12/2017
Model: HDGM

Vertical Section at 53.05° (2000 usft/in)

WELL DETAILS: NPR 23A-10 596

6709.00
+N/-S 0.00 +E/-W 0.00 Northing 14403124.70 Easting 2441464.90 Latitude 39.627574 Longitude -108.155324 NPR 23A-10 596

CATHEDRAL



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well NPR 23A-10 596 - Slot NPR 23A-10 596 |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 6739.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 6739.00usft |
| Site: | S10-T5S-R96W K10) | North Reference: | True |
| Well: | NPR 23A-10 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #1 | | |

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

| | | | | | |
|-----------------------|-----------|-------------------|--------------------|-------------------|-------------|
| Site | | S10-T5S-R96W K10) | | | |
| Site Position: | | Northing: | 14,403,136.70 usft | Latitude: | 39.627609 |
| From: | Map | Easting: | 2,441,445.90 usft | Longitude: | -108.155390 |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16" | Grid Convergence: | 1.82 ° |

| | | | | | | |
|----------------------|--------------------------------------|-----------|---------------------|--------------------|---------------|---------------|
| Well | NPR 23A-10 596 - Slot NPR 23A-10 596 | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 14,403,124.70 usft | Latitude: | 39.627574 |
| | +E/-W | 0.00 usft | Easting: | 2,441,464.90 usft | Longitude: | -108.155324 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 6,709.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | HDGM | 9/12/2017 | 9.72 | 65.93 | 51,531.50000000 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design | PLAN #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (usft) | (usft) | (usft) | (°) |
| | 0.00 | 0.00 | 0.00 | 53.05 |

| Plan Sections | | | | | | | | | | |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|--------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 898.97 | 20.97 | 54.55 | 883.47 | 73.36 | 103.04 | 3.00 | 3.00 | 0.00 | 54.55 | |
| 5,824.21 | 20.97 | 54.55 | 5,482.53 | 1,095.64 | 1,538.87 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,523.18 | 0.00 | 0.00 | 6,166.00 | 1,169.00 | 1,641.91 | 3.00 | -3.00 | 0.00 | 180.00 | |
| 6,839.98 | 3.17 | 250.00 | 6,482.64 | 1,166.01 | 1,633.68 | 1.00 | 1.00 | -34.72 | 250.00 | |
| 9,955.11 | 3.17 | 250.00 | 9,593.00 | 1,107.13 | 1,471.91 | 0.00 | 0.00 | 0.00 | 0.00 | NPR 23A-10 596 PB+ |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well NPR 23A-10 596 - Slot NPR 23A-10 596 |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 6739.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 6739.00usft |
| Site: | S10-T5S-R96W K10) | North Reference: | True |
| Well: | NPR 23A-10 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | 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 | |
| 300.00 | 3.00 | 54.55 | 299.95 | 1.52 | 2.13 | 2.62 | 3.00 | 3.00 | |
| 400.00 | 6.00 | 54.55 | 399.63 | 6.07 | 8.52 | 10.46 | 3.00 | 3.00 | |
| 500.00 | 9.00 | 54.55 | 498.77 | 13.64 | 19.15 | 23.51 | 3.00 | 3.00 | |
| 600.00 | 12.00 | 54.55 | 597.08 | 24.21 | 34.00 | 41.72 | 3.00 | 3.00 | |
| 700.00 | 15.00 | 54.55 | 694.31 | 37.74 | 53.01 | 65.05 | 3.00 | 3.00 | |
| 800.00 | 18.00 | 54.55 | 790.18 | 54.21 | 76.15 | 93.44 | 3.00 | 3.00 | |
| 898.97 | 20.97 | 54.55 | 883.47 | 73.36 | 103.04 | 126.44 | 3.00 | 3.00 | |
| 900.00 | 20.97 | 54.55 | 884.43 | 73.57 | 103.34 | 126.81 | 0.00 | 0.00 | |
| 1,000.00 | 20.97 | 54.55 | 977.81 | 94.33 | 132.49 | 162.58 | 0.00 | 0.00 | |
| 1,100.00 | 20.97 | 54.55 | 1,071.19 | 115.08 | 161.64 | 198.36 | 0.00 | 0.00 | |
| 1,200.00 | 20.97 | 54.55 | 1,164.56 | 135.84 | 190.79 | 234.13 | 0.00 | 0.00 | |
| 1,300.00 | 20.97 | 54.55 | 1,257.94 | 156.60 | 219.95 | 269.91 | 0.00 | 0.00 | |
| 1,400.00 | 20.97 | 54.55 | 1,351.32 | 177.35 | 249.10 | 305.68 | 0.00 | 0.00 | |
| 1,500.00 | 20.97 | 54.55 | 1,444.70 | 198.11 | 278.25 | 341.45 | 0.00 | 0.00 | |
| 1,600.00 | 20.97 | 54.55 | 1,538.07 | 218.86 | 307.40 | 377.23 | 0.00 | 0.00 | |
| 1,666.32 | 20.97 | 54.55 | 1,600.00 | 232.63 | 326.74 | 400.95 | 0.00 | 0.00 | WASATCH.MBL (TVD) |
| 1,700.00 | 20.97 | 54.55 | 1,631.45 | 239.62 | 336.56 | 413.00 | 0.00 | 0.00 | |
| 1,800.00 | 20.97 | 54.55 | 1,724.83 | 260.38 | 365.71 | 448.78 | 0.00 | 0.00 | |
| 1,900.00 | 20.97 | 54.55 | 1,818.21 | 281.13 | 394.86 | 484.55 | 0.00 | 0.00 | |
| 2,000.00 | 20.97 | 54.55 | 1,911.58 | 301.89 | 424.02 | 520.33 | 0.00 | 0.00 | |
| 2,100.00 | 20.97 | 54.55 | 2,004.96 | 322.64 | 453.17 | 556.10 | 0.00 | 0.00 | |
| 2,200.00 | 20.97 | 54.55 | 2,098.34 | 343.40 | 482.32 | 591.88 | 0.00 | 0.00 | |
| 2,300.00 | 20.97 | 54.55 | 2,191.71 | 364.16 | 511.47 | 627.65 | 0.00 | 0.00 | |
| 2,400.00 | 20.97 | 54.55 | 2,285.09 | 384.91 | 540.63 | 663.42 | 0.00 | 0.00 | |
| 2,500.00 | 20.97 | 54.55 | 2,378.47 | 405.67 | 569.78 | 699.20 | 0.00 | 0.00 | |
| 2,600.00 | 20.97 | 54.55 | 2,471.85 | 426.42 | 598.93 | 734.97 | 0.00 | 0.00 | |
| 2,700.00 | 20.97 | 54.55 | 2,565.22 | 447.18 | 628.08 | 770.75 | 0.00 | 0.00 | |
| 2,800.00 | 20.97 | 54.55 | 2,658.60 | 467.94 | 657.24 | 806.52 | 0.00 | 0.00 | |
| 2,900.00 | 20.97 | 54.55 | 2,751.98 | 488.69 | 686.39 | 842.30 | 0.00 | 0.00 | |
| 3,000.00 | 20.97 | 54.55 | 2,845.36 | 509.45 | 715.54 | 878.07 | 0.00 | 0.00 | |
| 3,100.00 | 20.97 | 54.55 | 2,938.73 | 530.20 | 744.69 | 913.85 | 0.00 | 0.00 | |
| 3,200.00 | 20.97 | 54.55 | 3,032.11 | 550.96 | 773.85 | 949.62 | 0.00 | 0.00 | |
| 3,300.00 | 20.97 | 54.55 | 3,125.49 | 571.72 | 803.00 | 985.39 | 0.00 | 0.00 | |
| 3,400.00 | 20.97 | 54.55 | 3,218.86 | 592.47 | 832.15 | 1,021.17 | 0.00 | 0.00 | |
| 3,500.00 | 20.97 | 54.55 | 3,312.24 | 613.23 | 861.30 | 1,056.94 | 0.00 | 0.00 | |
| 3,600.00 | 20.97 | 54.55 | 3,405.62 | 633.98 | 890.46 | 1,092.72 | 0.00 | 0.00 | |
| 3,700.00 | 20.97 | 54.55 | 3,499.00 | 654.74 | 919.61 | 1,128.49 | 0.00 | 0.00 | |
| 3,800.00 | 20.97 | 54.55 | 3,592.37 | 675.50 | 948.76 | 1,164.27 | 0.00 | 0.00 | |
| 3,900.00 | 20.97 | 54.55 | 3,685.75 | 696.25 | 977.92 | 1,200.04 | 0.00 | 0.00 | |
| 3,903.48 | 20.97 | 54.55 | 3,689.00 | 696.97 | 978.93 | 1,201.29 | 0.00 | 0.00 | WASATCH_G_ZONE.MBL (TVD) |
| 4,000.00 | 20.97 | 54.55 | 3,779.13 | 717.01 | 1,007.07 | 1,235.82 | 0.00 | 0.00 | |
| 4,100.00 | 20.97 | 54.55 | 3,872.51 | 737.76 | 1,036.22 | 1,271.59 | 0.00 | 0.00 | |
| 4,200.00 | 20.97 | 54.55 | 3,965.88 | 758.52 | 1,065.37 | 1,307.36 | 0.00 | 0.00 | |
| 4,278.30 | 20.97 | 54.55 | 4,039.00 | 774.77 | 1,088.20 | 1,335.38 | 0.00 | 0.00 | FORT_UNION.MBL (TVD) |
| 4,300.00 | 20.97 | 54.55 | 4,059.26 | 779.28 | 1,094.53 | 1,343.14 | 0.00 | 0.00 | |
| 4,400.00 | 20.97 | 54.55 | 4,152.64 | 800.03 | 1,123.68 | 1,378.91 | 0.00 | 0.00 | |
| 4,500.00 | 20.97 | 54.55 | 4,246.01 | 820.79 | 1,152.83 | 1,414.69 | 0.00 | 0.00 | |
| 4,600.00 | 20.97 | 54.55 | 4,339.39 | 841.54 | 1,181.98 | 1,450.46 | 0.00 | 0.00 | |
| 4,700.00 | 20.97 | 54.55 | 4,432.77 | 862.30 | 1,211.14 | 1,486.24 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
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| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 6739.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 6739.00usft |
| Site: | S10-T5S-R96W K10) | North Reference: | True |
| Well: | NPR 23A-10 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | 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 |
| 4,800.00 | 20.97 | 54.55 | 4,526.15 | 883.06 | 1,240.29 | 1,522.01 | 0.00 | 0.00 | |
| 4,900.00 | 20.97 | 54.55 | 4,619.52 | 903.81 | 1,269.44 | 1,557.78 | 0.00 | 0.00 | |
| 5,000.00 | 20.97 | 54.55 | 4,712.90 | 924.57 | 1,298.59 | 1,593.56 | 0.00 | 0.00 | |
| 5,100.00 | 20.97 | 54.55 | 4,806.28 | 945.32 | 1,327.75 | 1,629.33 | 0.00 | 0.00 | |
| 5,200.00 | 20.97 | 54.55 | 4,899.66 | 966.08 | 1,356.90 | 1,665.11 | 0.00 | 0.00 | |
| 5,300.00 | 20.97 | 54.55 | 4,993.03 | 986.84 | 1,386.05 | 1,700.88 | 0.00 | 0.00 | |
| 5,400.00 | 20.97 | 54.55 | 5,086.41 | 1,007.59 | 1,415.20 | 1,736.66 | 0.00 | 0.00 | |
| 5,500.00 | 20.97 | 54.55 | 5,179.79 | 1,028.35 | 1,444.36 | 1,772.43 | 0.00 | 0.00 | |
| 5,600.00 | 20.97 | 54.55 | 5,273.16 | 1,049.10 | 1,473.51 | 1,808.21 | 0.00 | 0.00 | |
| 5,700.00 | 20.97 | 54.55 | 5,366.54 | 1,069.86 | 1,502.66 | 1,843.98 | 0.00 | 0.00 | |
| 5,800.00 | 20.97 | 54.55 | 5,459.92 | 1,090.61 | 1,531.81 | 1,879.75 | 0.00 | 0.00 | |
| 5,824.21 | 20.97 | 54.55 | 5,482.53 | 1,095.64 | 1,538.87 | 1,888.42 | 0.00 | 0.00 | |
| 5,900.00 | 18.70 | 54.55 | 5,553.82 | 1,110.55 | 1,559.82 | 1,914.12 | 3.00 | -3.00 | |
| 6,000.00 | 15.70 | 54.55 | 5,649.33 | 1,127.70 | 1,583.90 | 1,943.67 | 3.00 | -3.00 | |
| 6,100.00 | 12.70 | 54.55 | 5,746.27 | 1,141.92 | 1,603.87 | 1,968.18 | 3.00 | -3.00 | |
| 6,200.00 | 9.70 | 54.55 | 5,844.36 | 1,153.18 | 1,619.69 | 1,987.59 | 3.00 | -3.00 | |
| 6,300.00 | 6.70 | 54.55 | 5,943.32 | 1,161.45 | 1,631.30 | 2,001.84 | 3.00 | -3.00 | |
| 6,339.90 | 5.50 | 54.55 | 5,983.00 | 1,163.90 | 1,634.75 | 2,006.07 | 3.00 | -3.00 | OHIO_CREEK.MBL (TVD) |
| 6,400.00 | 3.70 | 54.55 | 6,042.90 | 1,166.70 | 1,638.67 | 2,010.89 | 3.00 | -3.00 | |
| 6,500.00 | 0.70 | 54.55 | 6,142.82 | 1,168.92 | 1,641.80 | 2,014.72 | 3.00 | -3.00 | |
| 6,523.18 | 0.00 | 0.00 | 6,166.00 | 1,169.00 | 1,641.91 | 2,014.86 | 3.00 | -3.00 | |
| 6,573.18 | 0.50 | 250.00 | 6,216.00 | 1,168.93 | 1,641.70 | 2,014.65 | 1.00 | 1.00 | WILLIAMS_FORK.MBL (TVD) |
| 6,600.00 | 0.77 | 250.00 | 6,242.81 | 1,168.82 | 1,641.43 | 2,014.36 | 1.00 | 1.00 | |
| 6,623.19 | 1.00 | 250.00 | 6,266.00 | 1,168.70 | 1,641.09 | 2,014.02 | 1.00 | 1.00 | TOP_GAS.MBL (TVD) |
| 6,700.00 | 1.77 | 250.00 | 6,342.79 | 1,168.07 | 1,639.35 | 2,012.25 | 1.00 | 1.00 | |
| 6,800.00 | 2.77 | 250.00 | 6,442.71 | 1,166.71 | 1,635.63 | 2,008.46 | 1.00 | 1.00 | |
| 6,839.98 | 3.17 | 250.00 | 6,482.64 | 1,166.01 | 1,633.68 | 2,006.48 | 1.00 | 1.00 | |
| 6,900.00 | 3.17 | 250.00 | 6,542.56 | 1,164.87 | 1,630.57 | 2,003.31 | 0.00 | 0.00 | |
| 7,000.00 | 3.17 | 250.00 | 6,642.41 | 1,162.98 | 1,625.37 | 1,998.02 | 0.00 | 0.00 | |
| 7,100.00 | 3.17 | 250.00 | 6,742.26 | 1,161.09 | 1,620.18 | 1,992.74 | 0.00 | 0.00 | |
| 7,200.00 | 3.17 | 250.00 | 6,842.10 | 1,159.20 | 1,614.99 | 1,987.45 | 0.00 | 0.00 | |
| 7,300.00 | 3.17 | 250.00 | 6,941.95 | 1,157.31 | 1,609.79 | 1,982.16 | 0.00 | 0.00 | |
| 7,400.00 | 3.17 | 250.00 | 7,041.80 | 1,155.42 | 1,604.60 | 1,976.88 | 0.00 | 0.00 | |
| 7,500.00 | 3.17 | 250.00 | 7,141.65 | 1,153.53 | 1,599.41 | 1,971.59 | 0.00 | 0.00 | |
| 7,600.00 | 3.17 | 250.00 | 7,241.49 | 1,151.64 | 1,594.21 | 1,966.30 | 0.00 | 0.00 | |
| 7,700.00 | 3.17 | 250.00 | 7,341.34 | 1,149.75 | 1,589.02 | 1,961.02 | 0.00 | 0.00 | |
| 7,800.00 | 3.17 | 250.00 | 7,441.19 | 1,147.86 | 1,583.83 | 1,955.73 | 0.00 | 0.00 | |
| 7,900.00 | 3.17 | 250.00 | 7,541.03 | 1,145.97 | 1,578.63 | 1,950.45 | 0.00 | 0.00 | |
| 8,000.00 | 3.17 | 250.00 | 7,640.88 | 1,144.08 | 1,573.44 | 1,945.16 | 0.00 | 0.00 | |
| 8,100.00 | 3.17 | 250.00 | 7,740.73 | 1,142.19 | 1,568.25 | 1,939.87 | 0.00 | 0.00 | |
| 8,200.00 | 3.17 | 250.00 | 7,840.58 | 1,140.30 | 1,563.05 | 1,934.59 | 0.00 | 0.00 | |
| 8,300.00 | 3.17 | 250.00 | 7,940.42 | 1,138.41 | 1,557.86 | 1,929.30 | 0.00 | 0.00 | |
| 8,400.00 | 3.17 | 250.00 | 8,040.27 | 1,136.52 | 1,552.67 | 1,924.01 | 0.00 | 0.00 | |
| 8,500.00 | 3.17 | 250.00 | 8,140.12 | 1,134.63 | 1,547.48 | 1,918.73 | 0.00 | 0.00 | |
| 8,600.00 | 3.17 | 250.00 | 8,239.96 | 1,132.74 | 1,542.28 | 1,913.44 | 0.00 | 0.00 | |
| 8,700.00 | 3.17 | 250.00 | 8,339.81 | 1,130.85 | 1,537.09 | 1,908.16 | 0.00 | 0.00 | |
| 8,800.00 | 3.17 | 250.00 | 8,439.66 | 1,128.96 | 1,531.90 | 1,902.87 | 0.00 | 0.00 | |
| 8,900.00 | 3.17 | 250.00 | 8,539.51 | 1,127.07 | 1,526.70 | 1,897.58 | 0.00 | 0.00 | |
| 9,000.00 | 3.17 | 250.00 | 8,639.35 | 1,125.18 | 1,521.51 | 1,892.30 | 0.00 | 0.00 | |
| 9,100.00 | 3.17 | 250.00 | 8,739.20 | 1,123.29 | 1,516.32 | 1,887.01 | 0.00 | 0.00 | |
| 9,158.89 | 3.17 | 250.00 | 8,798.00 | 1,122.18 | 1,513.26 | 1,883.90 | 0.00 | 0.00 | CAMEO.MBL (TVD) |
| 9,200.00 | 3.17 | 250.00 | 8,839.05 | 1,121.40 | 1,511.12 | 1,881.72 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well NPR 23A-10 596 - Slot NPR 23A-10 596 |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 6739.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 6739.00usft |
| Site: | S10-T5S-R96W K10) | North Reference: | True |
| Well: | NPR 23A-10 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | 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 | 3.17 | 250.00 | 8,938.89 | 1,119.51 | 1,505.93 | 1,876.44 | 0.00 | 0.00 | |
| 9,400.00 | 3.17 | 250.00 | 9,038.74 | 1,117.62 | 1,500.74 | 1,871.15 | 0.00 | 0.00 | |
| 9,500.00 | 3.17 | 250.00 | 9,138.59 | 1,115.73 | 1,495.54 | 1,865.87 | 0.00 | 0.00 | |
| 9,600.00 | 3.17 | 250.00 | 9,238.44 | 1,113.84 | 1,490.35 | 1,860.58 | 0.00 | 0.00 | |
| 9,700.00 | 3.17 | 250.00 | 9,338.28 | 1,111.95 | 1,485.16 | 1,855.29 | 0.00 | 0.00 | |
| 9,779.84 | 3.17 | 250.00 | 9,418.00 | 1,110.44 | 1,481.01 | 1,851.07 | 0.00 | 0.00 | ROLLINS.MBL (TVD) |
| 9,800.00 | 3.17 | 250.00 | 9,438.13 | 1,110.06 | 1,479.97 | 1,850.01 | 0.00 | 0.00 | |
| 9,900.00 | 3.17 | 250.00 | 9,537.98 | 1,108.17 | 1,474.77 | 1,844.72 | 0.00 | 0.00 | |
| 9,955.11 | 3.17 | 250.00 | 9,593.00 | 1,107.13 | 1,471.91 | 1,841.81 | 0.00 | 0.00 | TD.MBL (TVD) |

| Targets | | | | | | | | | |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| - Shape | | | | | | | | | |
| NPR 23A-10 596 PBHL | 0.00 | 0.00 | 9,593.00 | 1,107.13 | 1,471.91 | 14,404,277.90 | 2,442,901.00 | 39.630613 | -108.150100 |
| - plan hits target center | | | | | | | | | |
| - Ellipse (radii L200.00 W100.00 on 250.00 azi) | | | | | | | | | |

| Formations | | | | | | |
|-----------------------|-----------------------|--------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 1,666.32 | 1,600.00 | WASATCH.MBL (TVD) | | | | |
| 3,903.48 | 3,689.00 | WASATCH_G_ZONE.MBL (TVD) | | | | |
| 4,278.30 | 4,039.00 | FORT_UNION.MBL (TVD) | | | | |
| 6,339.90 | 5,983.00 | OHIO_CREEK.MBL (TVD) | | | | |
| 6,573.18 | 6,216.00 | WILLIAMS_FORK.MBL (TVD) | | | | |
| 6,623.19 | 6,266.00 | TOP_GAS.MBL (TVD) | | | | |
| 9,158.89 | 8,798.00 | CAMEO.MBL (TVD) | | | | |
| 9,779.84 | 9,418.00 | ROLLINS.MBL (TVD) | | | | |
| 9,955.11 | 9,593.00 | TD.MBL (TVD) | | | | |