



SECTION DETAILS

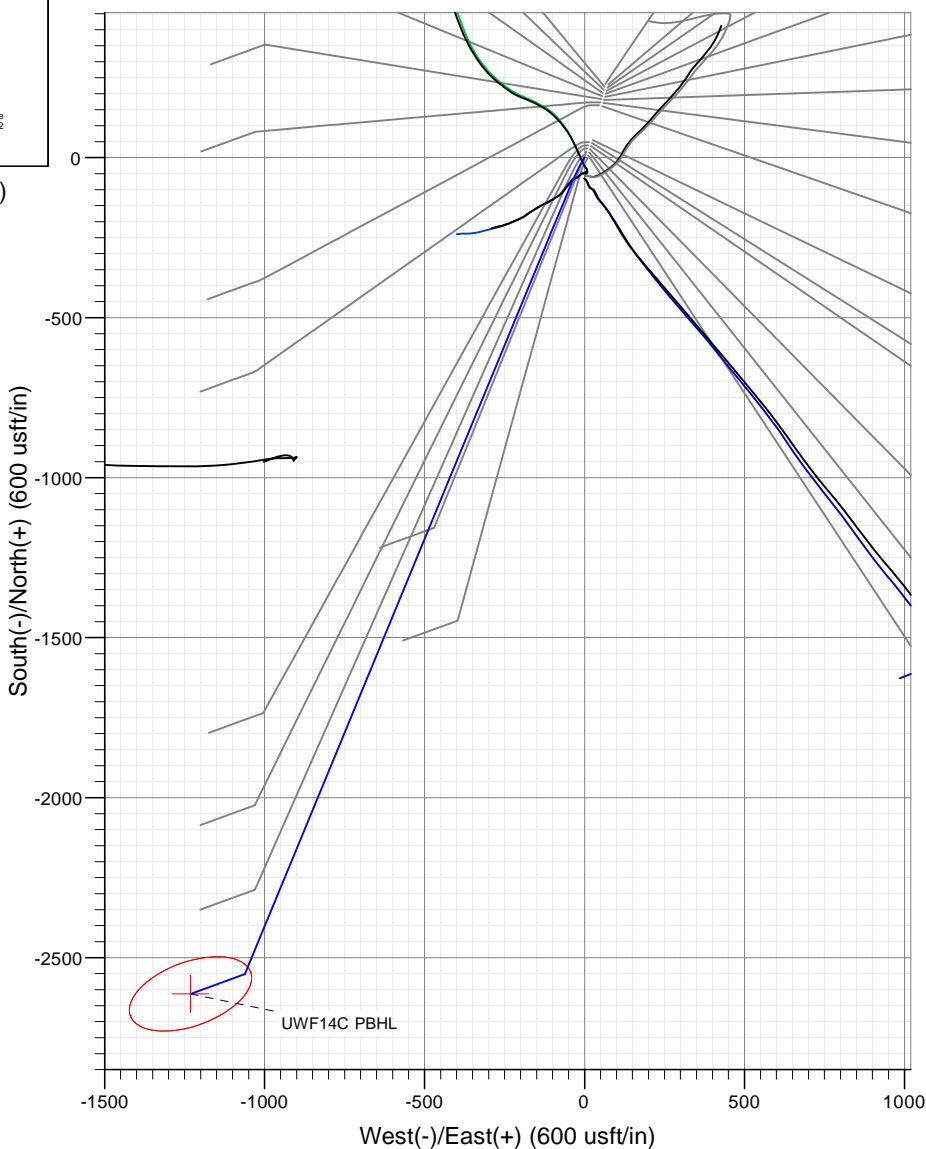
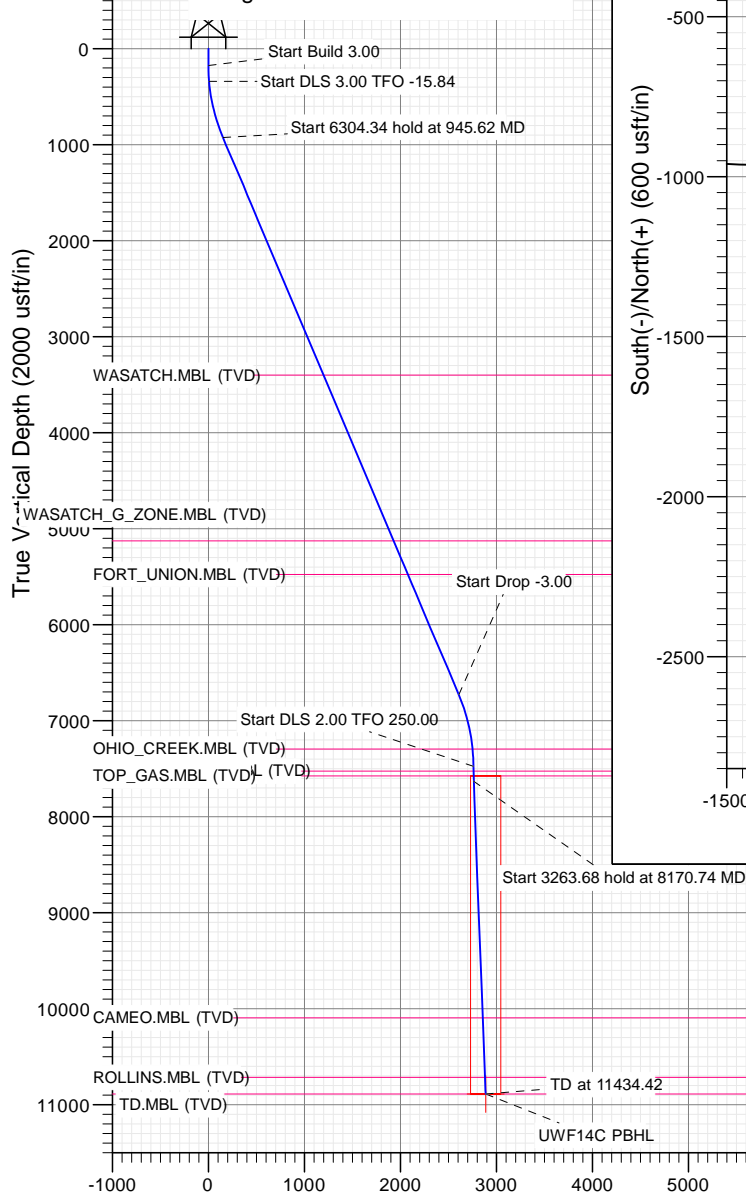
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | VSec | Target |
|-----|----------|-------|--------|----------|----------|----------|------|--------|---------|-------------|
| 1 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 2 | 175.00 | 0.00 | 0.00 | 175.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 3 | 341.67 | 5.00 | 215.00 | 341.46 | -5.95 | -4.17 | 3.00 | 215.00 | 7.16 | |
| 4 | 945.62 | 22.97 | 202.43 | 925.19 | -137.53 | -64.74 | 3.00 | -15.84 | 152.00 | |
| 5 | 7249.96 | 22.97 | 202.43 | 6729.74 | -2411.39 | -1003.58 | 0.00 | 0.00 | 2609.13 | |
| 6 | 8015.56 | 0.00 | 0.00 | 7475.00 | -2551.34 | -1061.36 | 3.00 | 180.00 | 2760.36 | |
| 7 | 8170.74 | 3.10 | 250.00 | 7630.11 | -2552.78 | -1065.31 | 2.00 | 250.00 | 2763.34 | |
| 8 | 11434.42 | 3.10 | 250.00 | 10889.00 | -2613.21 | -1231.36 | 0.00 | 0.00 | 2888.79 | UWF14C PBHL |

PLAN #2
UWF14C-04H H04 596
30' K9 @ 6300.00ust
Ground Level @ 8270.00
NAD 1987 - Western US
Well UWF14C-04H H04 596 - Slot UWF14C-04H04596, True North

| Type | Target | Azimuth | Origin | Type | N/S | E/W | From |
|------|----------------------|---------|--------|------|------|------|------|
| TD | No Target (Freehand) | 205.23 | Slot | 0.00 | 0.00 | 0.00 | 0.00 |

Name: UWF14C PBHL
TVD: 10889.00
+N/-S: -2613.21
+E/-W: -1231.36
Latitude: 39.638458
Longitude: -108.168892

Project: Garfield County, CO (UTM 12N)
Site: S4-T5S-R96W (H04)
Well: UWF14C-04H H04 596
Wellbore: OH
Design: PLAN #2



FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|----------|----------|--------------------------|
| 3400.00 | 3633.52 | WASATCH.MBL (TVD) |
| 5127.00 | 5509.21 | WASATCH_G_ZONE.MBL (TVD) |
| 5477.00 | 5889.35 | FORT_UNION.MBL (TVD) |
| 7294.00 | 7834.28 | OHIO_CREEK.MBL (TVD) |
| 7525.00 | 8065.56 | WILLIAMS_FORK.MBL (TVD) |
| 7575.00 | 8115.58 | TOP_GAS.MBL (TVD) |
| 10094.00 | 10638.25 | CAMEO.MBL (TVD) |
| 10714.00 | 11259.16 | ROLLINS.MBL (TVD) |
| 10889.00 | 11434.42 | TD.MBL (TVD) |



Azimuths to True North
Magnetic North: 9.72°

Magnetic Field
Strength: 51509.4snT
Dip Angle: 65.93°
Date: 8/31/2017
Model: HDGM

Vertical Section at 205.23° (2000 usft/in)

WELL DETAILS: UWF14C-04H H04 596

8270.00
+N/-S: 0.00 +E/-W: 0.00 Northing: 14409618.40 Easting: 2438666.70 Latitude: 39.645630 Longitude: -108.164520
UWF14C-04H04596





Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well UWF14C-04H H04 596 - Slot UWF14C-04H |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 8300.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 8300.00usft |
| Site: | S4-T5S-R96W (H04) | North Reference: | True |
| Well: | UWF14C-04H H04 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #2 | | |

| | | | |
|--------------------|--|----------------------|----------------|
| 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 | S4-T5S-R96W (H04) | | |
| Site Position: | | Northing: | 14,409,713.20 usft |
| From: | Map | Easting: | 2,438,700.39 usft |
| Position Uncertainty: | 0.00 usft | Slot Radius: | 13-3/16" |
| | | Latitude: | 39.645887 |
| | | Longitude: | -108.164391 |
| | | Grid Convergence: | 1.81 ° |

| | | | | | | |
|----------------------|---|-----------|---------------------|--------------------|---------------|---------------|
| Well | UWF14C-04H H04 596 - Slot UWF14C-04H04596 | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 14,409,618.40 usft | Latitude: | 39.645630 |
| | +E/-W | 0.00 usft | Easting: | 2,438,666.70 usft | Longitude: | -108.164521 |
| Position Uncertainty | | 0.00 usft | Wellhead Elevation: | usft | Ground Level: | 8,270.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 8/31/2017 | 9.72 | 65.93 | 51,509.40000000 |

| | | | | |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | PLAN #2 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.00 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.00 | 0.00 | 0.00 | 205.23 |

| 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 | |
| 175.00 | 0.00 | 0.00 | 175.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 341.67 | 5.00 | 215.00 | 341.46 | -5.95 | -4.17 | 3.00 | 3.00 | 0.00 | 215.00 | |
| 945.62 | 22.97 | 202.43 | 925.19 | -137.53 | -64.74 | 3.00 | 2.98 | -2.08 | -15.84 | |
| 7,249.96 | 22.97 | 202.43 | 6,729.74 | -2,411.39 | -1,003.58 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,015.56 | 0.00 | 0.00 | 7,475.00 | -2,551.34 | -1,061.36 | 3.00 | -3.00 | 0.00 | 180.00 | |
| 8,170.74 | 3.10 | 250.00 | 7,630.11 | -2,552.78 | -1,065.31 | 2.00 | 2.00 | -70.88 | 250.00 | |
| 11,434.42 | 3.10 | 250.00 | 10,889.00 | -2,613.21 | -1,231.36 | 0.00 | 0.00 | 0.00 | 0.00 | UWF14C PBHL |



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well UWF14C-04H H04 596 - Slot UWF14C-04H |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 8300.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 8300.00usft |
| Site: | S4-T5S-R96W (H04) | North Reference: | True |
| Well: | UWF14C-04H H04 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #2 | | |

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 | |
| 175.00 | 0.00 | 0.00 | 175.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 3.00 |
| 200.00 | 0.75 | 215.00 | 200.00 | -0.13 | -0.09 | 0.16 | 3.00 | 3.00 | |
| 300.00 | 3.75 | 215.00 | 299.91 | -3.35 | -2.35 | 4.03 | 3.00 | 3.00 | |
| 341.67 | 5.00 | 215.00 | 341.46 | -5.95 | -4.17 | 7.16 | 3.00 | 3.00 | Start DLS 3.00 TFO -15.84 |
| 400.00 | 6.70 | 210.90 | 399.48 | -10.96 | -7.37 | 13.05 | 3.00 | 2.92 | |
| 500.00 | 9.66 | 207.26 | 498.46 | -23.42 | -14.21 | 27.25 | 3.00 | 2.96 | |
| 600.00 | 12.63 | 205.31 | 596.56 | -40.77 | -22.73 | 46.57 | 3.00 | 2.98 | |
| 700.00 | 15.62 | 204.10 | 693.52 | -62.95 | -32.91 | 70.97 | 3.00 | 2.99 | |
| 800.00 | 18.61 | 203.27 | 789.09 | -89.90 | -44.71 | 100.38 | 3.00 | 2.99 | |
| 900.00 | 21.60 | 202.66 | 882.98 | -121.55 | -58.11 | 134.72 | 3.00 | 2.99 | |
| 945.62 | 22.97 | 202.43 | 925.19 | -137.53 | -64.74 | 152.00 | 3.00 | 2.99 | Start 6304.34 hold at 945.62 MD |
| 1,000.00 | 22.97 | 202.43 | 975.26 | -157.14 | -72.84 | 173.20 | 0.00 | 0.00 | |
| 1,100.00 | 22.97 | 202.43 | 1,067.33 | -193.21 | -87.73 | 212.17 | 0.00 | 0.00 | |
| 1,200.00 | 22.97 | 202.43 | 1,159.41 | -229.28 | -102.62 | 251.15 | 0.00 | 0.00 | |
| 1,300.00 | 22.97 | 202.43 | 1,251.48 | -265.35 | -117.51 | 290.12 | 0.00 | 0.00 | |
| 1,400.00 | 22.97 | 202.43 | 1,343.55 | -301.42 | -132.41 | 329.10 | 0.00 | 0.00 | |
| 1,500.00 | 22.97 | 202.43 | 1,435.62 | -337.48 | -147.30 | 368.08 | 0.00 | 0.00 | |
| 1,600.00 | 22.97 | 202.43 | 1,527.70 | -373.55 | -162.19 | 407.05 | 0.00 | 0.00 | |
| 1,700.00 | 22.97 | 202.43 | 1,619.77 | -409.62 | -177.08 | 446.03 | 0.00 | 0.00 | |
| 1,800.00 | 22.97 | 202.43 | 1,711.84 | -445.69 | -191.97 | 485.00 | 0.00 | 0.00 | |
| 1,900.00 | 22.97 | 202.43 | 1,803.91 | -481.76 | -206.87 | 523.98 | 0.00 | 0.00 | |
| 2,000.00 | 22.97 | 202.43 | 1,895.98 | -517.82 | -221.76 | 562.95 | 0.00 | 0.00 | |
| 2,100.00 | 22.97 | 202.43 | 1,988.06 | -553.89 | -236.65 | 601.93 | 0.00 | 0.00 | |
| 2,200.00 | 22.97 | 202.43 | 2,080.13 | -589.96 | -251.54 | 640.90 | 0.00 | 0.00 | |
| 2,300.00 | 22.97 | 202.43 | 2,172.20 | -626.03 | -266.43 | 679.88 | 0.00 | 0.00 | |
| 2,400.00 | 22.97 | 202.43 | 2,264.27 | -662.10 | -281.33 | 718.85 | 0.00 | 0.00 | |
| 2,500.00 | 22.97 | 202.43 | 2,356.35 | -698.17 | -296.22 | 757.83 | 0.00 | 0.00 | |
| 2,600.00 | 22.97 | 202.43 | 2,448.42 | -734.23 | -311.11 | 796.80 | 0.00 | 0.00 | |
| 2,700.00 | 22.97 | 202.43 | 2,540.49 | -770.30 | -326.00 | 835.78 | 0.00 | 0.00 | |
| 2,800.00 | 22.97 | 202.43 | 2,632.56 | -806.37 | -340.89 | 874.75 | 0.00 | 0.00 | |
| 2,900.00 | 22.97 | 202.43 | 2,724.64 | -842.44 | -355.79 | 913.73 | 0.00 | 0.00 | |
| 3,000.00 | 22.97 | 202.43 | 2,816.71 | -878.51 | -370.68 | 952.70 | 0.00 | 0.00 | |
| 3,100.00 | 22.97 | 202.43 | 2,908.78 | -914.58 | -385.57 | 991.68 | 0.00 | 0.00 | |
| 3,200.00 | 22.97 | 202.43 | 3,000.85 | -950.64 | -400.46 | 1,030.65 | 0.00 | 0.00 | |
| 3,300.00 | 22.97 | 202.43 | 3,092.92 | -986.71 | -415.35 | 1,069.63 | 0.00 | 0.00 | |
| 3,400.00 | 22.97 | 202.43 | 3,185.00 | -1,022.78 | -430.24 | 1,108.60 | 0.00 | 0.00 | |
| 3,500.00 | 22.97 | 202.43 | 3,277.07 | -1,058.85 | -445.14 | 1,147.58 | 0.00 | 0.00 | |
| 3,600.00 | 22.97 | 202.43 | 3,369.14 | -1,094.92 | -460.03 | 1,186.55 | 0.00 | 0.00 | |
| 3,633.52 | 22.97 | 202.43 | 3,400.00 | -1,107.00 | -465.02 | 1,199.62 | 0.00 | 0.00 | WASATCH.MBL (TVD) |
| 3,700.00 | 22.97 | 202.43 | 3,461.21 | -1,130.98 | -474.92 | 1,225.53 | 0.00 | 0.00 | |
| 3,800.00 | 22.97 | 202.43 | 3,553.29 | -1,167.05 | -489.81 | 1,264.50 | 0.00 | 0.00 | |
| 3,900.00 | 22.97 | 202.43 | 3,645.36 | -1,203.12 | -504.70 | 1,303.48 | 0.00 | 0.00 | |
| 4,000.00 | 22.97 | 202.43 | 3,737.43 | -1,239.19 | -519.60 | 1,342.46 | 0.00 | 0.00 | |
| 4,100.00 | 22.97 | 202.43 | 3,829.50 | -1,275.26 | -534.49 | 1,381.43 | 0.00 | 0.00 | |
| 4,200.00 | 22.97 | 202.43 | 3,921.58 | -1,311.33 | -549.38 | 1,420.41 | 0.00 | 0.00 | |
| 4,300.00 | 22.97 | 202.43 | 4,013.65 | -1,347.39 | -564.27 | 1,459.38 | 0.00 | 0.00 | |
| 4,400.00 | 22.97 | 202.43 | 4,105.72 | -1,383.46 | -579.16 | 1,498.36 | 0.00 | 0.00 | |
| 4,500.00 | 22.97 | 202.43 | 4,197.79 | -1,419.53 | -594.06 | 1,537.33 | 0.00 | 0.00 | |
| 4,600.00 | 22.97 | 202.43 | 4,289.86 | -1,455.60 | -608.95 | 1,576.31 | 0.00 | 0.00 | |
| 4,700.00 | 22.97 | 202.43 | 4,381.94 | -1,491.67 | -623.84 | 1,615.28 | 0.00 | 0.00 | |



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well UWF14C-04H H04 596 - Slot UWF14C-04H |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 8300.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 8300.00usft |
| Site: | S4-T5S-R96W (H04) | North Reference: | True |
| Well: | UWF14C-04H H04 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #2 | | |

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 | 22.97 | 202.43 | 4,474.01 | -1,527.74 | -638.73 | 1,654.26 | 0.00 | 0.00 | |
| 4,900.00 | 22.97 | 202.43 | 4,566.08 | -1,563.80 | -653.62 | 1,693.23 | 0.00 | 0.00 | |
| 5,000.00 | 22.97 | 202.43 | 4,658.15 | -1,599.87 | -668.52 | 1,732.21 | 0.00 | 0.00 | |
| 5,100.00 | 22.97 | 202.43 | 4,750.23 | -1,635.94 | -683.41 | 1,771.18 | 0.00 | 0.00 | |
| 5,200.00 | 22.97 | 202.43 | 4,842.30 | -1,672.01 | -698.30 | 1,810.16 | 0.00 | 0.00 | |
| 5,300.00 | 22.97 | 202.43 | 4,934.37 | -1,708.08 | -713.19 | 1,849.13 | 0.00 | 0.00 | |
| 5,400.00 | 22.97 | 202.43 | 5,026.44 | -1,744.14 | -728.08 | 1,888.11 | 0.00 | 0.00 | |
| 5,500.00 | 22.97 | 202.43 | 5,118.52 | -1,780.21 | -742.98 | 1,927.08 | 0.00 | 0.00 | |
| 5,509.21 | 22.97 | 202.43 | 5,127.00 | -1,783.54 | -744.35 | 1,930.67 | 0.00 | 0.00 | WASATCH_G_ZONE.MBL (TVD) |
| 5,600.00 | 22.97 | 202.43 | 5,210.59 | -1,816.28 | -757.87 | 1,966.06 | 0.00 | 0.00 | |
| 5,700.00 | 22.97 | 202.43 | 5,302.66 | -1,852.35 | -772.76 | 2,005.03 | 0.00 | 0.00 | |
| 5,800.00 | 22.97 | 202.43 | 5,394.73 | -1,888.42 | -787.65 | 2,044.01 | 0.00 | 0.00 | |
| 5,889.35 | 22.97 | 202.43 | 5,477.00 | -1,920.65 | -800.96 | 2,078.83 | 0.00 | 0.00 | FORT_UNION.MBL (TVD) |
| 5,900.00 | 22.97 | 202.43 | 5,486.81 | -1,924.49 | -802.54 | 2,082.98 | 0.00 | 0.00 | |
| 6,000.00 | 22.97 | 202.43 | 5,578.88 | -1,960.55 | -817.44 | 2,121.96 | 0.00 | 0.00 | |
| 6,100.00 | 22.97 | 202.43 | 5,670.95 | -1,996.62 | -832.33 | 2,160.93 | 0.00 | 0.00 | |
| 6,200.00 | 22.97 | 202.43 | 5,763.02 | -2,032.69 | -847.22 | 2,199.91 | 0.00 | 0.00 | |
| 6,300.00 | 22.97 | 202.43 | 5,855.09 | -2,068.76 | -862.11 | 2,238.88 | 0.00 | 0.00 | |
| 6,400.00 | 22.97 | 202.43 | 5,947.17 | -2,104.83 | -877.00 | 2,277.86 | 0.00 | 0.00 | |
| 6,500.00 | 22.97 | 202.43 | 6,039.24 | -2,140.90 | -891.89 | 2,316.84 | 0.00 | 0.00 | |
| 6,600.00 | 22.97 | 202.43 | 6,131.31 | -2,176.96 | -906.79 | 2,355.81 | 0.00 | 0.00 | |
| 6,700.00 | 22.97 | 202.43 | 6,223.38 | -2,213.03 | -921.68 | 2,394.79 | 0.00 | 0.00 | |
| 6,800.00 | 22.97 | 202.43 | 6,315.46 | -2,249.10 | -936.57 | 2,433.76 | 0.00 | 0.00 | |
| 6,900.00 | 22.97 | 202.43 | 6,407.53 | -2,285.17 | -951.46 | 2,472.74 | 0.00 | 0.00 | |
| 7,000.00 | 22.97 | 202.43 | 6,499.60 | -2,321.24 | -966.35 | 2,511.71 | 0.00 | 0.00 | |
| 7,100.00 | 22.97 | 202.43 | 6,591.67 | -2,357.31 | -981.25 | 2,550.69 | 0.00 | 0.00 | |
| 7,200.00 | 22.97 | 202.43 | 6,683.75 | -2,393.37 | -996.14 | 2,589.66 | 0.00 | 0.00 | |
| 7,249.96 | 22.97 | 202.43 | 6,729.74 | -2,411.39 | -1,003.58 | 2,609.13 | 0.00 | 0.00 | Start Drop -3.00 |
| 7,300.00 | 21.47 | 202.43 | 6,776.07 | -2,428.88 | -1,010.80 | 2,628.03 | 3.00 | -3.00 | |
| 7,400.00 | 18.47 | 202.43 | 6,870.05 | -2,460.44 | -1,023.83 | 2,662.13 | 3.00 | -3.00 | |
| 7,500.00 | 15.47 | 202.43 | 6,965.68 | -2,487.41 | -1,034.96 | 2,691.28 | 3.00 | -3.00 | |
| 7,600.00 | 12.47 | 202.43 | 7,062.72 | -2,509.72 | -1,044.17 | 2,715.38 | 3.00 | -3.00 | |
| 7,700.00 | 9.47 | 202.43 | 7,160.88 | -2,527.30 | -1,051.43 | 2,734.38 | 3.00 | -3.00 | |
| 7,800.00 | 6.47 | 202.43 | 7,259.90 | -2,540.11 | -1,056.72 | 2,748.22 | 3.00 | -3.00 | |
| 7,834.28 | 5.44 | 202.43 | 7,294.00 | -2,543.39 | -1,058.08 | 2,751.77 | 3.00 | -3.00 | OHIO_CREEK.MBL (TVD) |
| 7,900.00 | 3.47 | 202.43 | 7,359.51 | -2,548.11 | -1,060.03 | 2,756.87 | 3.00 | -3.00 | |
| 8,000.00 | 0.47 | 202.43 | 7,459.44 | -2,551.28 | -1,061.34 | 2,760.30 | 3.00 | -3.00 | |
| 8,015.56 | 0.00 | 0.00 | 7,475.00 | -2,551.34 | -1,061.36 | 2,760.36 | 3.00 | -3.00 | Start DLS 2.00 TFO 250.00 |
| 8,065.56 | 1.00 | 250.00 | 7,525.00 | -2,551.49 | -1,061.77 | 2,760.67 | 2.00 | 2.00 | WILLIAMS_FORK.MBL (TVD) |
| 8,100.00 | 1.69 | 250.00 | 7,559.43 | -2,551.77 | -1,062.53 | 2,761.24 | 2.00 | 2.00 | |
| 8,115.58 | 2.00 | 250.00 | 7,575.00 | -2,551.94 | -1,063.00 | 2,761.60 | 2.00 | 2.00 | TOP_GAS.MBL (TVD) |
| 8,170.74 | 3.10 | 250.00 | 7,630.11 | -2,552.78 | -1,065.31 | 2,763.34 | 2.00 | 2.00 | Start 3263.68 hold at 8170.74 MD |
| 8,200.00 | 3.10 | 250.00 | 7,659.33 | -2,553.32 | -1,066.80 | 2,764.47 | 0.00 | 0.00 | |
| 8,300.00 | 3.10 | 250.00 | 7,759.18 | -2,555.17 | -1,071.89 | 2,768.31 | 0.00 | 0.00 | |
| 8,400.00 | 3.10 | 250.00 | 7,859.03 | -2,557.02 | -1,076.97 | 2,772.16 | 0.00 | 0.00 | |
| 8,500.00 | 3.10 | 250.00 | 7,958.89 | -2,558.87 | -1,082.06 | 2,776.00 | 0.00 | 0.00 | |
| 8,600.00 | 3.10 | 250.00 | 8,058.74 | -2,560.73 | -1,087.15 | 2,779.84 | 0.00 | 0.00 | |
| 8,700.00 | 3.10 | 250.00 | 8,158.59 | -2,562.58 | -1,092.24 | 2,783.69 | 0.00 | 0.00 | |
| 8,800.00 | 3.10 | 250.00 | 8,258.45 | -2,564.43 | -1,097.32 | 2,787.53 | 0.00 | 0.00 | |
| 8,900.00 | 3.10 | 250.00 | 8,358.30 | -2,566.28 | -1,102.41 | 2,791.37 | 0.00 | 0.00 | |
| 9,000.00 | 3.10 | 250.00 | 8,458.15 | -2,568.13 | -1,107.50 | 2,795.22 | 0.00 | 0.00 | |
| 9,100.00 | 3.10 | 250.00 | 8,558.01 | -2,569.98 | -1,112.59 | 2,799.06 | 0.00 | 0.00 | |



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well UWF14C-04H H04 596 - Slot UWF14C-04H |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 8300.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 8300.00usft |
| Site: | S4-T5S-R96W (H04) | North Reference: | True |
| Well: | UWF14C-04H H04 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #2 | | |

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 |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 9,200.00 | 3.10 | 250.00 | 8,657.86 | -2,571.84 | -1,117.68 | 2,802.90 | 0.00 | 0.00 | |
| 9,300.00 | 3.10 | 250.00 | 8,757.71 | -2,573.69 | -1,122.76 | 2,806.75 | 0.00 | 0.00 | |
| 9,400.00 | 3.10 | 250.00 | 8,857.57 | -2,575.54 | -1,127.85 | 2,810.59 | 0.00 | 0.00 | |
| 9,500.00 | 3.10 | 250.00 | 8,957.42 | -2,577.39 | -1,132.94 | 2,814.44 | 0.00 | 0.00 | |
| 9,600.00 | 3.10 | 250.00 | 9,057.27 | -2,579.24 | -1,138.03 | 2,818.28 | 0.00 | 0.00 | |
| 9,700.00 | 3.10 | 250.00 | 9,157.13 | -2,581.09 | -1,143.12 | 2,822.12 | 0.00 | 0.00 | |
| 9,800.00 | 3.10 | 250.00 | 9,256.98 | -2,582.94 | -1,148.20 | 2,825.97 | 0.00 | 0.00 | |
| 9,900.00 | 3.10 | 250.00 | 9,356.83 | -2,584.80 | -1,153.29 | 2,829.81 | 0.00 | 0.00 | |
| 10,000.00 | 3.10 | 250.00 | 9,456.69 | -2,586.65 | -1,158.38 | 2,833.65 | 0.00 | 0.00 | |
| 10,100.00 | 3.10 | 250.00 | 9,556.54 | -2,588.50 | -1,163.47 | 2,837.50 | 0.00 | 0.00 | |
| 10,200.00 | 3.10 | 250.00 | 9,656.39 | -2,590.35 | -1,168.55 | 2,841.34 | 0.00 | 0.00 | |
| 10,300.00 | 3.10 | 250.00 | 9,756.25 | -2,592.20 | -1,173.64 | 2,845.19 | 0.00 | 0.00 | |
| 10,400.00 | 3.10 | 250.00 | 9,856.10 | -2,594.05 | -1,178.73 | 2,849.03 | 0.00 | 0.00 | |
| 10,500.00 | 3.10 | 250.00 | 9,955.95 | -2,595.91 | -1,183.82 | 2,852.87 | 0.00 | 0.00 | |
| 10,600.00 | 3.10 | 250.00 | 10,055.81 | -2,597.76 | -1,188.91 | 2,856.72 | 0.00 | 0.00 | |
| 10,638.25 | 3.10 | 250.00 | 10,094.00 | -2,598.47 | -1,190.85 | 2,858.19 | 0.00 | 0.00 | CAMEO.MBL (TVD) |
| 10,700.00 | 3.10 | 250.00 | 10,155.66 | -2,599.61 | -1,193.99 | 2,860.56 | 0.00 | 0.00 | |
| 10,800.00 | 3.10 | 250.00 | 10,255.51 | -2,601.46 | -1,199.08 | 2,864.40 | 0.00 | 0.00 | |
| 10,900.00 | 3.10 | 250.00 | 10,355.37 | -2,603.31 | -1,204.17 | 2,868.25 | 0.00 | 0.00 | |
| 11,000.00 | 3.10 | 250.00 | 10,455.22 | -2,605.16 | -1,209.26 | 2,872.09 | 0.00 | 0.00 | |
| 11,100.00 | 3.10 | 250.00 | 10,555.07 | -2,607.02 | -1,214.34 | 2,875.94 | 0.00 | 0.00 | |
| 11,200.00 | 3.10 | 250.00 | 10,654.93 | -2,608.87 | -1,219.43 | 2,879.78 | 0.00 | 0.00 | |
| 11,259.16 | 3.10 | 250.00 | 10,714.00 | -2,609.96 | -1,222.44 | 2,882.05 | 0.00 | 0.00 | ROLLINS.MBL (TVD) |
| 11,300.00 | 3.10 | 250.00 | 10,754.78 | -2,610.72 | -1,224.52 | 2,883.62 | 0.00 | 0.00 | |
| 11,400.00 | 3.10 | 250.00 | 10,854.63 | -2,612.57 | -1,229.61 | 2,887.47 | 0.00 | 0.00 | |
| 11,434.42 | 3.10 | 250.00 | 10,889.00 | -2,613.21 | -1,231.36 | 2,888.79 | 0.00 | 0.00 | TD at 11434.42 |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| UWF14C PBHL | 0.00 | 0.00 | 10,889.00 | -2,613.21 | -1,231.36 | 14,406,967.60 | 2,437,518.50 | 39.638458 | -108.168892 |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| - plan hits target center | | | | | | | | | |
| - Ellipse (radii L200.00 W100.00 on 250.00 azi) | | | | | | | | | |



Cathedral Energy Services

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well UWF14C-04H H04 596 - Slot UWF14C-04H |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 8300.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 8300.00usft |
| Site: | S4-T5S-R96W (H04) | North Reference: | True |
| Well: | UWF14C-04H H04 596 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #2 | | |

| Formations | | | | | | |
|-----------------------|-----------------------|--------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 3,633.52 | 3,400.00 | WASATCH.MBL (TVD) | | 0.00 | | |
| 5,509.21 | 5,127.00 | WASATCH_G_ZONE.MBL (TVD) | | | | |
| 5,889.35 | 5,477.00 | FORT_UNION.MBL (TVD) | | | | |
| 7,834.28 | 7,294.00 | OHIO_CREEK.MBL (TVD) | | | | |
| 8,065.56 | 7,525.00 | WILLIAMS_FORK.MBL (TVD) | | | | |
| 8,115.58 | 7,575.00 | TOP_GAS.MBL (TVD) | | | | |
| 10,638.25 | 10,094.00 | CAMEO.MBL (TVD) | | | | |
| 11,259.16 | 10,714.00 | ROLLINS.MBL (TVD) | | | | |
| 11,434.42 | 10,889.00 | TD.MBL (TVD) | | | | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 175.00 | 175.00 | 0.00 | 0.00 | Start Build 3.00 | |
| 341.67 | 341.46 | -5.95 | -4.17 | Start DLS 3.00 TFO -15.84 | |
| 945.62 | 925.19 | -137.53 | -64.74 | Start 6304.34 hold at 945.62 MD | |
| 7,249.96 | 6,729.74 | -2,411.39 | -1,003.58 | Start Drop -3.00 | |
| 8,015.56 | 7,475.00 | -2,551.34 | -1,061.36 | Start DLS 2.00 TFO 250.00 | |
| 8,170.74 | 7,630.11 | -2,552.78 | -1,065.31 | Start 3263.68 hold at 8170.74 MD | |
| 11,434.42 | 10,889.00 | -2,613.21 | -1,231.36 | TD at 11434.42 | |