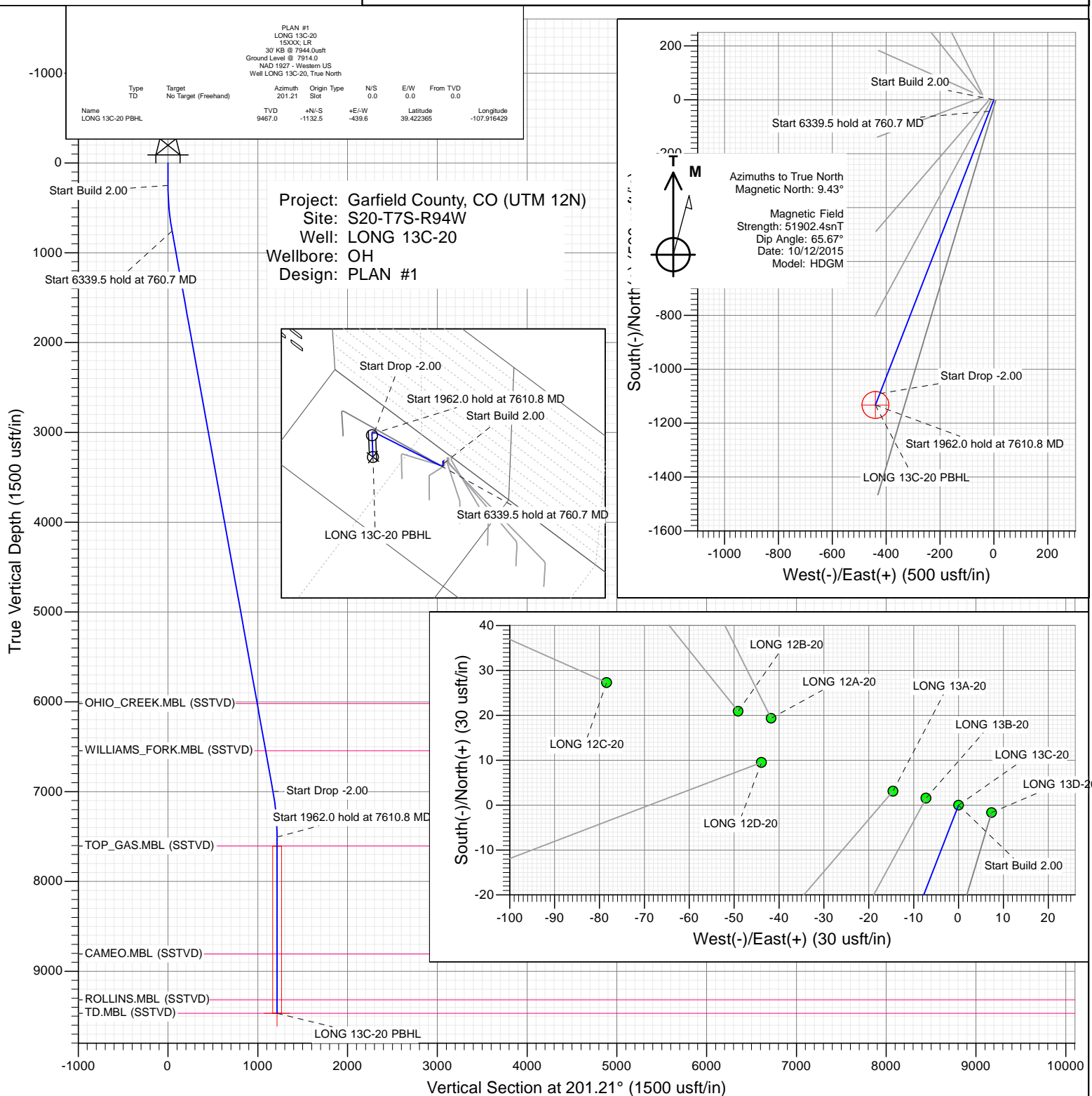




SECTION DETAILS

| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | Vsect | Target |
|-----|--------|-------|--------|--------|---------|--------|------|--------|--------|------------------|
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 760.7 | 10.21 | 201.21 | 758.0 | -42.3 | -16.4 | 2.00 | 201.21 | 45.4 | |
| 4 | 7100.2 | 10.21 | 201.21 | 6997.0 | -1090.2 | -423.2 | 0.00 | 0.00 | 1169.5 | |
| 5 | 7610.8 | 0.00 | 0.00 | 7505.0 | -1132.5 | -439.6 | 2.00 | 180.00 | 1214.8 | |
| 6 | 9572.8 | 0.00 | 0.00 | 9467.0 | -1132.5 | -439.6 | 0.00 | 0.00 | 1214.8 | LONG 13C-20 PBHL |



WELL DETAILS: LONG 13C-20

| | |
|---------------|-------------|
| Ground Level: | 7914.0 |
| +N/-S | 0.0 |
| +E/-W | 0.0 |
| Northing | 14331755.40 |
| Easting | 2511711.30 |
| Latitude | 39.425473 |
| Longitude | -107.914874 |



Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well LONG 13C-20 |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 7944.0usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 7944.0usft |
| Site: | S20-T7S-R94W | North Reference: | True |
| Well: | LONG 13C-20 | 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 | | S20-T7S-R94W | | | |
| Site Position: | | Northing: | 14,331,773.30 usft | Latitude: | 39.425526 |
| From: | Map | Easting: | 2,511,668.90 usft | Longitude: | -107.915021 |
| Position Uncertainty: | 0.0 usft | Slot Radius: | 13-3/16 " | Grid Convergence: | 1.96 ° |

| | | | | | | |
|----------------------|-------------|----------|---------------------|--------------------|---------------|--------------|
| Well | LONG 13C-20 | | | | | |
| Well Position | +N/-S | 0.0 usft | Northing: | 14,331,755.40 usft | Latitude: | 39.425473 |
| | +E/-W | 0.0 usft | Easting: | 2,511,711.30 usft | Longitude: | -107.914874 |
| Position Uncertainty | | 0.0 usft | Wellhead Elevation: | 0.0 usft | Ground Level: | 7,914.0 usft |

| | | | | | |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM | 10/12/2015 | 9.43 | 65.67 | 51,902 |

| | | | | |
|--------------------------|------------------------------------|-------------------------|-------------------------|--------------------------|
| Design | PLAN #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (usft) | +N/-S (usft) | +E/-W (usft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 201.21 |

| 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 |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 760.7 | 10.21 | 201.21 | 758.0 | -42.3 | -16.4 | 2.00 | 2.00 | 0.00 | 201.21 | |
| 7,100.2 | 10.21 | 201.21 | 6,997.0 | -1,090.2 | -423.2 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,610.8 | 0.00 | 0.00 | 7,505.0 | -1,132.5 | -439.6 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 9,572.8 | 0.00 | 0.00 | 9,467.0 | -1,132.5 | -439.6 | 0.00 | 0.00 | 0.00 | 0.00 | LONG 13C-20 PBHL |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well LONG 13C-20 |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 7944.0usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 7944.0usft |
| Site: | S20-T7S-R94W | North Reference: | True |
| Well: | LONG 13C-20 | 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 |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | Start Build 2.00 |
| 300.0 | 1.00 | 201.21 | 300.0 | -0.4 | -0.2 | 0.4 | 2.00 | 2.00 | |
| 400.0 | 3.00 | 201.21 | 399.9 | -3.7 | -1.4 | 3.9 | 2.00 | 2.00 | |
| 500.0 | 5.00 | 201.21 | 499.7 | -10.2 | -3.9 | 10.9 | 2.00 | 2.00 | |
| 600.0 | 7.00 | 201.21 | 599.1 | -19.9 | -7.7 | 21.4 | 2.00 | 2.00 | |
| 700.0 | 9.00 | 201.21 | 698.2 | -32.9 | -12.8 | 35.3 | 2.00 | 2.00 | |
| 760.7 | 10.21 | 201.21 | 758.0 | -42.3 | -16.4 | 45.4 | 2.00 | 2.00 | Start 6339.5 hold at 760.7 MD |
| 800.0 | 10.21 | 201.21 | 796.7 | -48.8 | -18.9 | 52.4 | 0.00 | 0.00 | |
| 900.0 | 10.21 | 201.21 | 895.1 | -65.3 | -25.4 | 70.1 | 0.00 | 0.00 | |
| 1,000.0 | 10.21 | 201.21 | 993.5 | -81.9 | -31.8 | 87.8 | 0.00 | 0.00 | |
| 1,100.0 | 10.21 | 201.21 | 1,091.9 | -98.4 | -38.2 | 105.6 | 0.00 | 0.00 | |
| 1,200.0 | 10.21 | 201.21 | 1,190.3 | -114.9 | -44.6 | 123.3 | 0.00 | 0.00 | |
| 1,300.0 | 10.21 | 201.21 | 1,288.8 | -131.5 | -51.0 | 141.0 | 0.00 | 0.00 | |
| 1,400.0 | 10.21 | 201.21 | 1,387.2 | -148.0 | -57.4 | 158.8 | 0.00 | 0.00 | |
| 1,500.0 | 10.21 | 201.21 | 1,485.6 | -164.5 | -63.9 | 176.5 | 0.00 | 0.00 | |
| 1,600.0 | 10.21 | 201.21 | 1,584.0 | -181.1 | -70.3 | 194.2 | 0.00 | 0.00 | |
| 1,700.0 | 10.21 | 201.21 | 1,682.4 | -197.6 | -76.7 | 211.9 | 0.00 | 0.00 | |
| 1,800.0 | 10.21 | 201.21 | 1,780.8 | -214.1 | -83.1 | 229.7 | 0.00 | 0.00 | |
| 1,900.0 | 10.21 | 201.21 | 1,879.2 | -230.6 | -89.5 | 247.4 | 0.00 | 0.00 | |
| 2,000.0 | 10.21 | 201.21 | 1,977.7 | -247.2 | -95.9 | 265.1 | 0.00 | 0.00 | |
| 2,100.0 | 10.21 | 201.21 | 2,076.1 | -263.7 | -102.4 | 282.9 | 0.00 | 0.00 | |
| 2,200.0 | 10.21 | 201.21 | 2,174.5 | -280.2 | -108.8 | 300.6 | 0.00 | 0.00 | |
| 2,300.0 | 10.21 | 201.21 | 2,272.9 | -296.8 | -115.2 | 318.3 | 0.00 | 0.00 | |
| 2,400.0 | 10.21 | 201.21 | 2,371.3 | -313.3 | -121.6 | 336.1 | 0.00 | 0.00 | |
| 2,500.0 | 10.21 | 201.21 | 2,469.7 | -329.8 | -128.0 | 353.8 | 0.00 | 0.00 | |
| 2,600.0 | 10.21 | 201.21 | 2,568.2 | -346.3 | -134.4 | 371.5 | 0.00 | 0.00 | |
| 2,700.0 | 10.21 | 201.21 | 2,666.6 | -362.9 | -140.9 | 389.3 | 0.00 | 0.00 | |
| 2,800.0 | 10.21 | 201.21 | 2,765.0 | -379.4 | -147.3 | 407.0 | 0.00 | 0.00 | |
| 2,900.0 | 10.21 | 201.21 | 2,863.4 | -395.9 | -153.7 | 424.7 | 0.00 | 0.00 | |
| 3,000.0 | 10.21 | 201.21 | 2,961.8 | -412.5 | -160.1 | 442.5 | 0.00 | 0.00 | |
| 3,100.0 | 10.21 | 201.21 | 3,060.2 | -429.0 | -166.5 | 460.2 | 0.00 | 0.00 | |
| 3,200.0 | 10.21 | 201.21 | 3,158.6 | -445.5 | -172.9 | 477.9 | 0.00 | 0.00 | |
| 3,300.0 | 10.21 | 201.21 | 3,257.1 | -462.1 | -179.4 | 495.6 | 0.00 | 0.00 | |
| 3,400.0 | 10.21 | 201.21 | 3,355.5 | -478.6 | -185.8 | 513.4 | 0.00 | 0.00 | |
| 3,500.0 | 10.21 | 201.21 | 3,453.9 | -495.1 | -192.2 | 531.1 | 0.00 | 0.00 | |
| 3,600.0 | 10.21 | 201.21 | 3,552.3 | -511.6 | -198.6 | 548.8 | 0.00 | 0.00 | |
| 3,700.0 | 10.21 | 201.21 | 3,650.7 | -528.2 | -205.0 | 566.6 | 0.00 | 0.00 | |
| 3,800.0 | 10.21 | 201.21 | 3,749.1 | -544.7 | -211.4 | 584.3 | 0.00 | 0.00 | |
| 3,900.0 | 10.21 | 201.21 | 3,847.6 | -561.2 | -217.8 | 602.0 | 0.00 | 0.00 | |
| 4,000.0 | 10.21 | 201.21 | 3,946.0 | -577.8 | -224.3 | 619.8 | 0.00 | 0.00 | |
| 4,100.0 | 10.21 | 201.21 | 4,044.4 | -594.3 | -230.7 | 637.5 | 0.00 | 0.00 | |
| 4,200.0 | 10.21 | 201.21 | 4,142.8 | -610.8 | -237.1 | 655.2 | 0.00 | 0.00 | |
| 4,300.0 | 10.21 | 201.21 | 4,241.2 | -627.4 | -243.5 | 673.0 | 0.00 | 0.00 | |
| 4,400.0 | 10.21 | 201.21 | 4,339.6 | -643.9 | -249.9 | 690.7 | 0.00 | 0.00 | |
| 4,500.0 | 10.21 | 201.21 | 4,438.1 | -660.4 | -256.3 | 708.4 | 0.00 | 0.00 | |
| 4,600.0 | 10.21 | 201.21 | 4,536.5 | -676.9 | -262.8 | 726.1 | 0.00 | 0.00 | |
| 4,700.0 | 10.21 | 201.21 | 4,634.9 | -693.5 | -269.2 | 743.9 | 0.00 | 0.00 | |
| 4,800.0 | 10.21 | 201.21 | 4,733.3 | -710.0 | -275.6 | 761.6 | 0.00 | 0.00 | |
| 4,900.0 | 10.21 | 201.21 | 4,831.7 | -726.5 | -282.0 | 779.3 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well LONG 13C-20 |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 7944.0usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 7944.0usft |
| Site: | S20-T7S-R94W | North Reference: | True |
| Well: | LONG 13C-20 | 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 |
| 5,000.0 | 10.21 | 201.21 | 4,930.1 | -743.1 | -288.4 | 797.1 | 0.00 | 0.00 | |
| 5,100.0 | 10.21 | 201.21 | 5,028.5 | -759.6 | -294.8 | 814.8 | 0.00 | 0.00 | |
| 5,200.0 | 10.21 | 201.21 | 5,127.0 | -776.1 | -301.3 | 832.5 | 0.00 | 0.00 | |
| 5,300.0 | 10.21 | 201.21 | 5,225.4 | -792.6 | -307.7 | 850.3 | 0.00 | 0.00 | |
| 5,400.0 | 10.21 | 201.21 | 5,323.8 | -809.2 | -314.1 | 868.0 | 0.00 | 0.00 | |
| 5,500.0 | 10.21 | 201.21 | 5,422.2 | -825.7 | -320.5 | 885.7 | 0.00 | 0.00 | |
| 5,600.0 | 10.21 | 201.21 | 5,520.6 | -842.2 | -326.9 | 903.5 | 0.00 | 0.00 | |
| 5,700.0 | 10.21 | 201.21 | 5,619.0 | -858.8 | -333.3 | 921.2 | 0.00 | 0.00 | |
| 5,800.0 | 10.21 | 201.21 | 5,717.5 | -875.3 | -339.8 | 938.9 | 0.00 | 0.00 | |
| 5,900.0 | 10.21 | 201.21 | 5,815.9 | -891.8 | -346.2 | 956.7 | 0.00 | 0.00 | |
| 6,000.0 | 10.21 | 201.21 | 5,914.3 | -908.4 | -352.6 | 974.4 | 0.00 | 0.00 | |
| 6,100.0 | 10.21 | 201.21 | 6,012.7 | -924.9 | -359.0 | 992.1 | 0.00 | 0.00 | |
| 6,106.4 | 10.21 | 201.21 | 6,019.0 | -925.9 | -359.4 | 993.2 | 0.00 | 0.00 | OHIO_CREEK.MBL (SSTVD) |
| 6,200.0 | 10.21 | 201.21 | 6,111.1 | -941.4 | -365.4 | 1,009.8 | 0.00 | 0.00 | |
| 6,300.0 | 10.21 | 201.21 | 6,209.5 | -957.9 | -371.8 | 1,027.6 | 0.00 | 0.00 | |
| 6,400.0 | 10.21 | 201.21 | 6,307.9 | -974.5 | -378.3 | 1,045.3 | 0.00 | 0.00 | |
| 6,500.0 | 10.21 | 201.21 | 6,406.4 | -991.0 | -384.7 | 1,063.0 | 0.00 | 0.00 | |
| 6,600.0 | 10.21 | 201.21 | 6,504.8 | -1,007.5 | -391.1 | 1,080.8 | 0.00 | 0.00 | |
| 6,639.9 | 10.21 | 201.21 | 6,544.0 | -1,014.1 | -393.6 | 1,087.8 | 0.00 | 0.00 | WILLIAMS_FORK.MBL (SSTVD) |
| 6,700.0 | 10.21 | 201.21 | 6,603.2 | -1,024.1 | -397.5 | 1,098.5 | 0.00 | 0.00 | |
| 6,800.0 | 10.21 | 201.21 | 6,701.6 | -1,040.6 | -403.9 | 1,116.2 | 0.00 | 0.00 | |
| 6,900.0 | 10.21 | 201.21 | 6,800.0 | -1,057.1 | -410.3 | 1,134.0 | 0.00 | 0.00 | |
| 7,000.0 | 10.21 | 201.21 | 6,898.4 | -1,073.6 | -416.7 | 1,151.7 | 0.00 | 0.00 | |
| 7,100.0 | 10.21 | 201.21 | 6,996.9 | -1,090.2 | -423.2 | 1,169.4 | 0.00 | 0.00 | |
| 7,100.2 | 10.21 | 201.21 | 6,997.0 | -1,090.2 | -423.2 | 1,169.5 | 0.00 | 0.00 | Start Drop -2.00 |
| 7,200.0 | 8.22 | 201.21 | 7,095.6 | -1,105.1 | -429.0 | 1,185.4 | 2.00 | -2.00 | |
| 7,300.0 | 6.22 | 201.21 | 7,194.8 | -1,116.8 | -433.5 | 1,198.0 | 2.00 | -2.00 | |
| 7,400.0 | 4.22 | 201.21 | 7,294.3 | -1,125.3 | -436.8 | 1,207.1 | 2.00 | -2.00 | |
| 7,500.0 | 2.22 | 201.21 | 7,394.2 | -1,130.5 | -438.8 | 1,212.7 | 2.00 | -2.00 | |
| 7,600.0 | 0.22 | 201.21 | 7,494.2 | -1,132.5 | -439.6 | 1,214.8 | 2.00 | -2.00 | |
| 7,610.8 | 0.00 | 0.00 | 7,505.0 | -1,132.5 | -439.6 | 1,214.8 | 2.00 | -2.00 | Start 1962.0 hold at 7610.8 MD |
| 7,700.0 | 0.00 | 0.00 | 7,594.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 7,710.8 | 0.00 | 0.00 | 7,605.0 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | TOP_GAS.MBL (SSTVD) |
| 7,800.0 | 0.00 | 0.00 | 7,694.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 7,900.0 | 0.00 | 0.00 | 7,794.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,894.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 7,994.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 8,094.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,194.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,294.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,394.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,600.0 | 0.00 | 0.00 | 8,494.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,700.0 | 0.00 | 0.00 | 8,594.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,694.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,794.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 8,912.8 | 0.00 | 0.00 | 8,807.0 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | CAMEO.MBL (SSTVD) |
| 9,000.0 | 0.00 | 0.00 | 8,894.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 9,100.0 | 0.00 | 0.00 | 8,994.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 9,094.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 9,300.0 | 0.00 | 0.00 | 9,194.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 9,294.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 9,422.8 | 0.00 | 0.00 | 9,317.0 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | ROLLINS.MBL (SSTVD) |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|---------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well LONG 13C-20 |
| Company: | Caerus Oil & Gas | TVD Reference: | 30' KB @ 7944.0usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | 30' KB @ 7944.0usft |
| Site: | S20-T7S-R94W | North Reference: | True |
| Well: | LONG 13C-20 | 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 |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|---------------------|-----------------------|
| 9,500.0 | 0.00 | 0.00 | 9,394.2 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | |
| 9,572.8 | 0.00 | 0.00 | 9,467.0 | -1,132.5 | -439.6 | 1,214.8 | 0.00 | 0.00 | TD at 9572.8 |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| LONG 13C-20 PBHL | 0.00 | 0.00 | 9,467.0 | -1,132.5 | -439.6 | 14,330,608.50 | 2,511,310.70 | 39.422365 | -107.916429 |
| - plan hits target center | | | | | | | | | |
| - Circle (radius 50.0) | | | | | | | | | |

Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------|-----------------------|---------------------------|-----------|---------|-------------------|
| 6,106.4 | 6,019.0 | OHIO_CREEK.MBL (SSTVD) | | 0.00 | |
| 6,639.9 | 6,544.0 | WILLIAMS_FORK.MBL (SSTVD) | | 0.00 | |
| 7,710.8 | 7,605.0 | TOP_GAS.MBL (SSTVD) | | 0.00 | |
| 8,912.8 | 8,807.0 | CAMEO.MBL (SSTVD) | | 0.00 | |
| 9,422.8 | 9,317.0 | ROLLINS.MBL (SSTVD) | | 0.00 | |

Plan Annotations

| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | Comment |
|-----------------------|-----------------------|-------------------|--------------|--------------------------------|
| | | +N/-S (usft) | +E/-W (usft) | |
| 250.0 | 250.0 | 0.0 | 0.0 | Start Build 2.00 |
| 760.7 | 758.0 | -42.3 | -16.4 | Start 6339.5 hold at 760.7 MD |
| 7,100.2 | 6,997.0 | -1,090.2 | -423.2 | Start Drop -2.00 |
| 7,610.8 | 7,505.0 | -1,132.5 | -439.6 | Start 1962.0 hold at 7610.8 MD |
| 9,572.8 | 9,467.0 | -1,132.5 | -439.6 | TD at 9572.8 |