

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|-----------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well FED 15D-13 - Slot FED 15D-13 |
| Company: | Caerus Oil & Gas | TVD Reference: | GL + KB @ 8155.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | GL + KB @ 8155.00usft |
| Site: | S24-T4S-R96W ELU A24 496 | North Reference: | True |
| Well: | FED 15D-13 | 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 | S24-T4S-R96W ELU A24 496, Gravity = 0.997576 | | |
| Site Position: | | Northing: | 14,427,694.80 usft |
| From: | Map | Easting: | 2,449,140.90 usft |
| Position Uncertainty: | 3.28 usft | Slot Radius: | 13-3/16" |
| | | Latitude: | 39.694298 |
| | | Longitude: | -108.125304 |
| | | Grid Convergence: | 1.84 ° |

| | | | | | | |
|----------------------|------------------------------|-----------|---------------------|--------------------|---------------|---------------|
| Well | FED 15D-13 - Slot FED 15D-13 | | | | | |
| Well Position | +N/-S | 0.00 usft | Northing: | 14,427,571.90 usft | Latitude: | 39.693961 |
| | +E/-W | 0.00 usft | Easting: | 2,449,139.90 usft | Longitude: | -108.125321 |
| Position Uncertainty | | 3.28 usft | Wellhead Elevation: | usft | Ground Level: | 8,125.00 usft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | OH | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | HDGM_FILE | 7/27/2018 | 9.63 | 65.88 | 51,366.50000000 |

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|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| Design | PLAN #1 | | | |
| 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 | 59.23 |

| 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 | |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 400.00 | 3.00 | 25.00 | 399.95 | 2.37 | 1.11 | 3.00 | 3.00 | 0.00 | 25.00 | |
| 580.00 | 3.00 | 25.00 | 579.71 | 10.91 | 5.09 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 822.81 | 9.52 | 60.40 | 821.00 | 26.61 | 25.26 | 3.00 | 2.69 | 14.58 | 49.09 | |
| 8,598.00 | 9.52 | 60.40 | 8,489.08 | 661.90 | 1,143.52 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,915.37 | 0.00 | 0.00 | 8,805.00 | 674.89 | 1,166.40 | 3.00 | -3.00 | 0.00 | 180.00 | |
| 8,986.44 | 1.42 | 250.00 | 8,876.06 | 674.59 | 1,165.57 | 2.00 | 2.00 | -154.78 | 250.00 | |
| 12,597.49 | 1.42 | 250.00 | 12,486.00 | 643.96 | 1,081.40 | 0.00 | 0.00 | 0.00 | 0.00 | FED 15D-13_PBHL |

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| Project: | Garfield County, CO (UTM 12N) | MD Reference: | GL + KB @ 8155.00usft |
| Site: | S24-T4S-R96W ELU A24 496 | North Reference: | True |
| Well: | FED 15D-13 | 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 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Start Build 3.00 |
| 400.00 | 3.00 | 25.00 | 399.95 | 2.37 | 1.11 | 2.16 | 3.00 | 3.00 | Start 180.00 hold at 400.00 MD |
| 500.00 | 3.00 | 25.00 | 499.82 | 7.12 | 3.32 | 6.49 | 0.00 | 0.00 | |
| 580.00 | 3.00 | 25.00 | 579.71 | 10.91 | 5.09 | 9.95 | 0.00 | 0.00 | Start DLS 3.00 TFO 49.09 |
| 600.00 | 3.42 | 32.62 | 599.68 | 11.89 | 5.63 | 10.92 | 3.00 | 2.12 | |
| 700.00 | 6.01 | 51.96 | 699.34 | 17.63 | 11.36 | 18.78 | 3.00 | 2.59 | |
| 800.00 | 8.86 | 59.34 | 798.49 | 24.78 | 22.11 | 31.68 | 3.00 | 2.85 | |
| 822.81 | 9.52 | 60.40 | 821.00 | 26.61 | 25.26 | 35.32 | 3.00 | 2.91 | Start 7775.19 hold at 822.81 MD |
| 900.00 | 9.52 | 60.40 | 897.13 | 32.92 | 36.36 | 48.08 | 0.00 | 0.00 | |
| 1,000.00 | 9.52 | 60.40 | 995.75 | 41.09 | 50.75 | 64.62 | 0.00 | 0.00 | |
| 1,100.00 | 9.52 | 60.40 | 1,094.38 | 49.26 | 65.13 | 81.16 | 0.00 | 0.00 | |
| 1,200.00 | 9.52 | 60.40 | 1,193.00 | 57.43 | 79.51 | 97.70 | 0.00 | 0.00 | |
| 1,300.00 | 9.52 | 60.40 | 1,291.62 | 65.60 | 93.89 | 114.24 | 0.00 | 0.00 | |
| 1,400.00 | 9.52 | 60.40 | 1,390.24 | 73.77 | 108.28 | 130.77 | 0.00 | 0.00 | |
| 1,500.00 | 9.52 | 60.40 | 1,488.87 | 81.94 | 122.66 | 147.31 | 0.00 | 0.00 | |
| 1,600.00 | 9.52 | 60.40 | 1,587.49 | 90.11 | 137.04 | 163.85 | 0.00 | 0.00 | |
| 1,700.00 | 9.52 | 60.40 | 1,686.11 | 98.28 | 151.42 | 180.39 | 0.00 | 0.00 | |
| 1,800.00 | 9.52 | 60.40 | 1,784.73 | 106.45 | 165.81 | 196.93 | 0.00 | 0.00 | |
| 1,900.00 | 9.52 | 60.40 | 1,883.35 | 114.62 | 180.19 | 213.46 | 0.00 | 0.00 | |
| 2,000.00 | 9.52 | 60.40 | 1,981.98 | 122.79 | 194.57 | 230.00 | 0.00 | 0.00 | |
| 2,100.00 | 9.52 | 60.40 | 2,080.60 | 130.97 | 208.95 | 246.54 | 0.00 | 0.00 | |
| 2,200.00 | 9.52 | 60.40 | 2,179.22 | 139.14 | 223.33 | 263.08 | 0.00 | 0.00 | |
| 2,300.00 | 9.52 | 60.40 | 2,277.84 | 147.31 | 237.72 | 279.61 | 0.00 | 0.00 | |
| 2,400.00 | 9.52 | 60.40 | 2,376.47 | 155.48 | 252.10 | 296.15 | 0.00 | 0.00 | |
| 2,500.00 | 9.52 | 60.40 | 2,475.09 | 163.65 | 266.48 | 312.69 | 0.00 | 0.00 | |
| 2,600.00 | 9.52 | 60.40 | 2,573.71 | 171.82 | 280.86 | 329.23 | 0.00 | 0.00 | |
| 2,700.00 | 9.52 | 60.40 | 2,672.33 | 179.99 | 295.25 | 345.77 | 0.00 | 0.00 | |
| 2,800.00 | 9.52 | 60.40 | 2,770.96 | 188.16 | 309.63 | 362.30 | 0.00 | 0.00 | |
| 2,900.00 | 9.52 | 60.40 | 2,869.58 | 196.33 | 324.01 | 378.84 | 0.00 | 0.00 | |
| 3,000.00 | 9.52 | 60.40 | 2,968.20 | 204.50 | 338.39 | 395.38 | 0.00 | 0.00 | |
| 3,100.00 | 9.52 | 60.40 | 3,066.82 | 212.67 | 352.78 | 411.92 | 0.00 | 0.00 | |
| 3,200.00 | 9.52 | 60.40 | 3,165.45 | 220.84 | 367.16 | 428.46 | 0.00 | 0.00 | |
| 3,300.00 | 9.52 | 60.40 | 3,264.07 | 229.01 | 381.54 | 444.99 | 0.00 | 0.00 | |
| 3,400.00 | 9.52 | 60.40 | 3,362.69 | 237.18 | 395.92 | 461.53 | 0.00 | 0.00 | |
| 3,500.00 | 9.52 | 60.40 | 3,461.31 | 245.36 | 410.31 | 478.07 | 0.00 | 0.00 | |
| 3,600.00 | 9.52 | 60.40 | 3,559.94 | 253.53 | 424.69 | 494.61 | 0.00 | 0.00 | |
| 3,700.00 | 9.52 | 60.40 | 3,658.56 | 261.70 | 439.07 | 511.14 | 0.00 | 0.00 | |
| 3,800.00 | 9.52 | 60.40 | 3,757.18 | 269.87 | 453.45 | 527.68 | 0.00 | 0.00 | |
| 3,900.00 | 9.52 | 60.40 | 3,855.80 | 278.04 | 467.84 | 544.22 | 0.00 | 0.00 | |
| 4,000.00 | 9.52 | 60.40 | 3,954.43 | 286.21 | 482.22 | 560.76 | 0.00 | 0.00 | |
| 4,100.00 | 9.52 | 60.40 | 4,053.05 | 294.38 | 496.60 | 577.30 | 0.00 | 0.00 | |
| 4,200.00 | 9.52 | 60.40 | 4,151.67 | 302.55 | 510.98 | 593.83 | 0.00 | 0.00 | |
| 4,300.00 | 9.52 | 60.40 | 4,250.29 | 310.72 | 525.37 | 610.37 | 0.00 | 0.00 | |
| 4,400.00 | 9.52 | 60.40 | 4,348.92 | 318.89 | 539.75 | 626.91 | 0.00 | 0.00 | |
| 4,500.00 | 9.52 | 60.40 | 4,447.54 | 327.06 | 554.13 | 643.45 | 0.00 | 0.00 | |
| 4,600.00 | 9.52 | 60.40 | 4,546.16 | 335.23 | 568.51 | 659.99 | 0.00 | 0.00 | |
| 4,700.00 | 9.52 | 60.40 | 4,644.78 | 343.40 | 582.90 | 676.52 | 0.00 | 0.00 | |
| 4,800.00 | 9.52 | 60.40 | 4,743.41 | 351.57 | 597.28 | 693.06 | 0.00 | 0.00 | |
| 4,900.00 | 9.52 | 60.40 | 4,842.03 | 359.75 | 611.66 | 709.60 | 0.00 | 0.00 | |

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| Project: | Garfield County, CO (UTM 12N) | MD Reference: | GL + KB @ 8155.00usft |
| Site: | S24-T4S-R96W ELU A24 496 | North Reference: | True |
| Well: | FED 15D-13 | 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 |
| 5,000.00 | 9.52 | 60.40 | 4,940.65 | 367.92 | 626.04 | 726.14 | 0.00 | 0.00 | |
| 5,100.00 | 9.52 | 60.40 | 5,039.27 | 376.09 | 640.43 | 742.68 | 0.00 | 0.00 | |
| 5,200.00 | 9.52 | 60.40 | 5,137.90 | 384.26 | 654.81 | 759.21 | 0.00 | 0.00 | |
| 5,300.00 | 9.52 | 60.40 | 5,236.52 | 392.43 | 669.19 | 775.75 | 0.00 | 0.00 | |
| 5,400.00 | 9.52 | 60.40 | 5,335.14 | 400.60 | 683.57 | 792.29 | 0.00 | 0.00 | |
| 5,500.00 | 9.52 | 60.40 | 5,433.76 | 408.77 | 697.96 | 808.83 | 0.00 | 0.00 | |
| 5,600.00 | 9.52 | 60.40 | 5,532.38 | 416.94 | 712.34 | 825.36 | 0.00 | 0.00 | |
| 5,700.00 | 9.52 | 60.40 | 5,631.01 | 425.11 | 726.72 | 841.90 | 0.00 | 0.00 | |
| 5,800.00 | 9.52 | 60.40 | 5,729.63 | 433.28 | 741.10 | 858.44 | 0.00 | 0.00 | |
| 5,900.00 | 9.52 | 60.40 | 5,828.25 | 441.45 | 755.49 | 874.98 | 0.00 | 0.00 | |
| 6,000.00 | 9.52 | 60.40 | 5,926.87 | 449.62 | 769.87 | 891.52 | 0.00 | 0.00 | |
| 6,100.00 | 9.52 | 60.40 | 6,025.50 | 457.79 | 784.25 | 908.05 | 0.00 | 0.00 | |
| 6,200.00 | 9.52 | 60.40 | 6,124.12 | 465.97 | 798.63 | 924.59 | 0.00 | 0.00 | |
| 6,290.12 | 9.52 | 60.40 | 6,213.00 | 473.33 | 811.59 | 939.50 | 0.00 | 0.00 | WASATCH_G.NPC (TVD) |
| 6,300.00 | 9.52 | 60.40 | 6,222.74 | 474.14 | 813.02 | 941.13 | 0.00 | 0.00 | |
| 6,400.00 | 9.52 | 60.40 | 6,321.36 | 482.31 | 827.40 | 957.67 | 0.00 | 0.00 | |
| 6,500.00 | 9.52 | 60.40 | 6,419.99 | 490.48 | 841.78 | 974.21 | 0.00 | 0.00 | |
| 6,600.00 | 9.52 | 60.40 | 6,518.61 | 498.65 | 856.16 | 990.74 | 0.00 | 0.00 | |
| 6,700.00 | 9.52 | 60.40 | 6,617.23 | 506.82 | 870.55 | 1,007.28 | 0.00 | 0.00 | |
| 6,800.00 | 9.52 | 60.40 | 6,715.85 | 514.99 | 884.93 | 1,023.82 | 0.00 | 0.00 | |
| 6,823.47 | 9.52 | 60.40 | 6,739.00 | 516.91 | 888.30 | 1,027.70 | 0.00 | 0.00 | FORT_UNION.NPC (TVD) |
| 6,900.00 | 9.52 | 60.40 | 6,814.48 | 523.16 | 899.31 | 1,040.36 | 0.00 | 0.00 | |
| 7,000.00 | 9.52 | 60.40 | 6,913.10 | 531.33 | 913.69 | 1,056.89 | 0.00 | 0.00 | |
| 7,100.00 | 9.52 | 60.40 | 7,011.72 | 539.50 | 928.08 | 1,073.43 | 0.00 | 0.00 | |
| 7,200.00 | 9.52 | 60.40 | 7,110.34 | 547.67 | 942.46 | 1,089.97 | 0.00 | 0.00 | |
| 7,300.00 | 9.52 | 60.40 | 7,208.97 | 555.84 | 956.84 | 1,106.51 | 0.00 | 0.00 | |
| 7,400.00 | 9.52 | 60.40 | 7,307.59 | 564.01 | 971.22 | 1,123.05 | 0.00 | 0.00 | |
| 7,500.00 | 9.52 | 60.40 | 7,406.21 | 572.18 | 985.61 | 1,139.58 | 0.00 | 0.00 | |
| 7,600.00 | 9.52 | 60.40 | 7,504.83 | 580.36 | 999.99 | 1,156.12 | 0.00 | 0.00 | |
| 7,700.00 | 9.52 | 60.40 | 7,603.46 | 588.53 | 1,014.37 | 1,172.66 | 0.00 | 0.00 | |
| 7,800.00 | 9.52 | 60.40 | 7,702.08 | 596.70 | 1,028.75 | 1,189.20 | 0.00 | 0.00 | |
| 7,900.00 | 9.52 | 60.40 | 7,800.70 | 604.87 | 1,043.13 | 1,205.74 | 0.00 | 0.00 | |
| 8,000.00 | 9.52 | 60.40 | 7,899.32 | 613.04 | 1,057.52 | 1,222.27 | 0.00 | 0.00 | |
| 8,100.00 | 9.52 | 60.40 | 7,997.95 | 621.21 | 1,071.90 | 1,238.81 | 0.00 | 0.00 | |
| 8,200.00 | 9.52 | 60.40 | 8,096.57 | 629.38 | 1,086.28 | 1,255.35 | 0.00 | 0.00 | |
| 8,300.00 | 9.52 | 60.40 | 8,195.19 | 637.55 | 1,100.66 | 1,271.89 | 0.00 | 0.00 | |
| 8,400.00 | 9.52 | 60.40 | 8,293.81 | 645.72 | 1,115.05 | 1,288.43 | 0.00 | 0.00 | |
| 8,500.00 | 9.52 | 60.40 | 8,392.44 | 653.89 | 1,129.43 | 1,304.96 | 0.00 | 0.00 | |
| 8,598.00 | 9.52 | 60.40 | 8,489.08 | 661.90 | 1,143.52 | 1,321.17 | 0.00 | 0.00 | Start Drop -3.00 |
| 8,600.00 | 9.46 | 60.40 | 8,491.06 | 662.06 | 1,143.81 | 1,321.50 | 3.00 | -3.00 | |
| 8,660.62 | 7.64 | 60.40 | 8,551.00 | 666.51 | 1,151.65 | 1,330.51 | 3.00 | -3.00 | OHIO_CREEK.NPC |
| 8,700.00 | 6.46 | 60.40 | 8,590.08 | 668.90 | 1,155.85 | 1,335.35 | 3.00 | -3.00 | |
| 8,800.00 | 3.46 | 60.40 | 8,689.70 | 673.17 | 1,163.37 | 1,343.99 | 3.00 | -3.00 | |
| 8,900.00 | 0.46 | 60.40 | 8,789.63 | 674.86 | 1,166.35 | 1,347.41 | 3.00 | -3.00 | |
| 8,915.37 | 0.00 | 0.00 | 8,805.00 | 674.89 | 1,166.40 | 1,347.47 | 3.00 | -3.00 | Start DLS 2.00 TFO 250.00 |
| 8,965.38 | 1.00 | 250.00 | 8,855.00 | 674.75 | 1,165.99 | 1,347.05 | 2.00 | 2.00 | WILLIAMS_FORK.NPC (TVD) |
| 8,986.44 | 1.42 | 250.00 | 8,876.06 | 674.59 | 1,165.57 | 1,346.61 | 2.00 | 2.00 | Start 3611.05 hold at 8986.44 MD |
| 9,000.00 | 1.42 | 250.00 | 8,889.62 | 674.48 | 1,165.26 | 1,346.28 | 0.00 | 0.00 | |
| 9,015.39 | 1.42 | 250.00 | 8,905.00 | 674.35 | 1,164.90 | 1,345.90 | 0.00 | 0.00 | TOP_GAS.NPC (TVD) |
| 9,100.00 | 1.42 | 250.00 | 8,989.58 | 673.63 | 1,162.92 | 1,343.84 | 0.00 | 0.00 | |
| 9,200.00 | 1.42 | 250.00 | 9,089.55 | 672.78 | 1,160.59 | 1,341.40 | 0.00 | 0.00 | |
| 9,300.00 | 1.42 | 250.00 | 9,189.52 | 671.93 | 1,158.26 | 1,338.97 | 0.00 | 0.00 | |

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| Project: | Garfield County, CO (UTM 12N) | MD Reference: | GL + KB @ 8155.00usft |
| Site: | S24-T4S-R96W ELU A24 496 | North Reference: | True |
| Well: | FED 15D-13 | 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 |
| 9,400.00 | 1.42 | 250.00 | 9,289.49 | 671.09 | 1,155.93 | 1,336.53 | 0.00 | 0.00 | |
| 9,500.00 | 1.42 | 250.00 | 9,389.46 | 670.24 | 1,153.60 | 1,334.09 | 0.00 | 0.00 | |
| 9,600.00 | 1.42 | 250.00 | 9,489.43 | 669.39 | 1,151.27 | 1,331.66 | 0.00 | 0.00 | |
| 9,700.00 | 1.42 | 250.00 | 9,589.40 | 668.54 | 1,148.94 | 1,329.22 | 0.00 | 0.00 | |
| 9,800.00 | 1.42 | 250.00 | 9,689.37 | 667.69 | 1,146.61 | 1,326.78 | 0.00 | 0.00 | |
| 9,900.00 | 1.42 | 250.00 | 9,789.34 | 666.84 | 1,144.28 | 1,324.35 | 0.00 | 0.00 | |
| 10,000.00 | 1.42 | 250.00 | 9,889.31 | 666.00 | 1,141.95 | 1,321.91 | 0.00 | 0.00 | |
| 10,100.00 | 1.42 | 250.00 | 9,989.28 | 665.15 | 1,139.62 | 1,319.47 | 0.00 | 0.00 | |
| 10,200.00 | 1.42 | 250.00 | 10,089.25 | 664.30 | 1,137.28 | 1,317.04 | 0.00 | 0.00 | |
| 10,300.00 | 1.42 | 250.00 | 10,189.22 | 663.45 | 1,134.95 | 1,314.60 | 0.00 | 0.00 | |
| 10,400.00 | 1.42 | 250.00 | 10,289.18 | 662.60 | 1,132.62 | 1,312.16 | 0.00 | 0.00 | |
| 10,500.00 | 1.42 | 250.00 | 10,389.15 | 661.76 | 1,130.29 | 1,309.73 | 0.00 | 0.00 | |
| 10,600.00 | 1.42 | 250.00 | 10,489.12 | 660.91 | 1,127.96 | 1,307.29 | 0.00 | 0.00 | |
| 10,700.00 | 1.42 | 250.00 | 10,589.09 | 660.06 | 1,125.63 | 1,304.85 | 0.00 | 0.00 | |
| 10,800.00 | 1.42 | 250.00 | 10,689.06 | 659.21 | 1,123.30 | 1,302.42 | 0.00 | 0.00 | |
| 10,900.00 | 1.42 | 250.00 | 10,789.03 | 658.36 | 1,120.97 | 1,299.98 | 0.00 | 0.00 | |
| 11,000.00 | 1.42 | 250.00 | 10,889.00 | 657.51 | 1,118.64 | 1,297.54 | 0.00 | 0.00 | |
| 11,100.00 | 1.42 | 250.00 | 10,988.97 | 656.67 | 1,116.31 | 1,295.11 | 0.00 | 0.00 | |
| 11,200.00 | 1.42 | 250.00 | 11,088.94 | 655.82 | 1,113.97 | 1,292.67 | 0.00 | 0.00 | |
| 11,300.00 | 1.42 | 250.00 | 11,188.91 | 654.97 | 1,111.64 | 1,290.23 | 0.00 | 0.00 | |
| 11,400.00 | 1.42 | 250.00 | 11,288.88 | 654.12 | 1,109.31 | 1,287.80 | 0.00 | 0.00 | |
| 11,500.00 | 1.42 | 250.00 | 11,388.85 | 653.27 | 1,106.98 | 1,285.36 | 0.00 | 0.00 | |
| 11,600.00 | 1.42 | 250.00 | 11,488.82 | 652.43 | 1,104.65 | 1,282.92 | 0.00 | 0.00 | |
| 11,700.00 | 1.42 | 250.00 | 11,588.78 | 651.58 | 1,102.32 | 1,280.49 | 0.00 | 0.00 | |
| 11,800.00 | 1.42 | 250.00 | 11,688.75 | 650.73 | 1,099.99 | 1,278.05 | 0.00 | 0.00 | |
| 11,897.28 | 1.42 | 250.00 | 11,786.00 | 649.90 | 1,097.72 | 1,275.68 | 0.00 | 0.00 | CAMEO.NPC (TVD) |
| 11,900.00 | 1.42 | 250.00 | 11,788.72 | 649.88 | 1,097.66 | 1,275.61 | 0.00 | 0.00 | |
| 12,000.00 | 1.42 | 250.00 | 11,888.69 | 649.03 | 1,095.33 | 1,273.18 | 0.00 | 0.00 | |
| 12,100.00 | 1.42 | 250.00 | 11,988.66 | 648.18 | 1,093.00 | 1,270.74 | 0.00 | 0.00 | |
| 12,200.00 | 1.42 | 250.00 | 12,088.63 | 647.34 | 1,090.66 | 1,268.30 | 0.00 | 0.00 | |
| 12,300.00 | 1.42 | 250.00 | 12,188.60 | 646.49 | 1,088.33 | 1,265.87 | 0.00 | 0.00 | |
| 12,397.43 | 1.42 | 250.00 | 12,286.00 | 645.66 | 1,086.06 | 1,263.49 | 0.00 | 0.00 | ROLLINS.NPC (TVD) |
| 12,400.00 | 1.42 | 250.00 | 12,288.57 | 645.64 | 1,086.00 | 1,263.43 | 0.00 | 0.00 | |
| 12,500.00 | 1.42 | 250.00 | 12,388.54 | 644.79 | 1,083.67 | 1,260.99 | 0.00 | 0.00 | |
| 12,597.49 | 1.42 | 250.00 | 12,486.00 | 643.96 | 1,081.40 | 1,258.62 | 0.00 | 0.00 | TD at 12597.49 - TD.MBL (TVD) - FED 15D-13 |

| Targets | | | | | | | | | |
|--|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| FED 15D-13_PBHL | 0.00 | 0.00 | 12,486.00 | 643.96 | 1,081.40 | 14,428,250.20 | 2,450,200.10 | 39.695729 | -108.121480 |
| - plan hits target center | | | | | | | | | |
| - Ellipse (radii L100.00 W50.00 on 250.00 azi) | | | | | | | | | |

Planning Report

| | | | |
|------------------|-------------------------------|-------------------------------------|-----------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well FED 15D-13 - Slot FED 15D-13 |
| Company: | Caerus Oil & Gas | TVD Reference: | GL + KB @ 8155.00usft |
| Project: | Garfield County, CO (UTM 12N) | MD Reference: | GL + KB @ 8155.00usft |
| Site: | S24-T4S-R96W ELU A24 496 | North Reference: | True |
| Well: | FED 15D-13 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OH | | |
| Design: | PLAN #1 | | |

| Formations | | | | | | |
|-----------------------|-----------------------|-------------------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 6,290.12 | 6,213.00 | WASATCH_G.NPC (TVD) | | | | |
| 6,823.47 | 6,739.00 | FORT_UNION.NPC (TVD) | | | | |
| 8,660.62 | 8,551.00 | OHIO_CREEK.NPC | | | | |
| 8,965.38 | 8,855.00 | WILLIAMS_FORK.NPC (TVD) | | | | |
| 9,015.39 | 8,905.00 | TOP_GAS.NPC (TVD) | | | | |
| 11,897.28 | 11,786.00 | CAMEO.NPC (TVD) | | | | |
| 12,397.43 | 12,286.00 | ROLLINS.NPC (TVD) | | | | |
| 12,597.49 | 12,486.00 | TD.MBL (TVD) | | | | |

| Plan Annotations | | | | | |
|-----------------------|-----------------------|-------------------|--------------|----------------------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Local Coordinates | | | |
| | | +N/-S (usft) | +E/-W (usft) | Comment | |
| 300.00 | 300.00 | 0.00 | 0.00 | Start Build 3.00 | |
| 400.00 | 399.95 | 2.37 | 1.11 | Start 180.00 hold at 400.00 MD | |
| 580.00 | 579.71 | 10.91 | 5.09 | Start DLS 3.00 TFO 49.09 | |
| 822.81 | 821.00 | 26.61 | 25.26 | Start 7775.19 hold at 822.81 MD | |
| 8,598.00 | 8,489.08 | 661.90 | 1,143.52 | Start Drop -3.00 | |
| 8,915.37 | 8,805.00 | 674.89 | 1,166.40 | Start DLS 2.00 TFO 250.00 | |
| 8,986.44 | 8,876.06 | 674.59 | 1,165.57 | Start 3611.05 hold at 8986.44 MD | |
| 12,597.49 | 12,486.00 | 643.96 | 1,081.40 | TD at 12597.49 | |