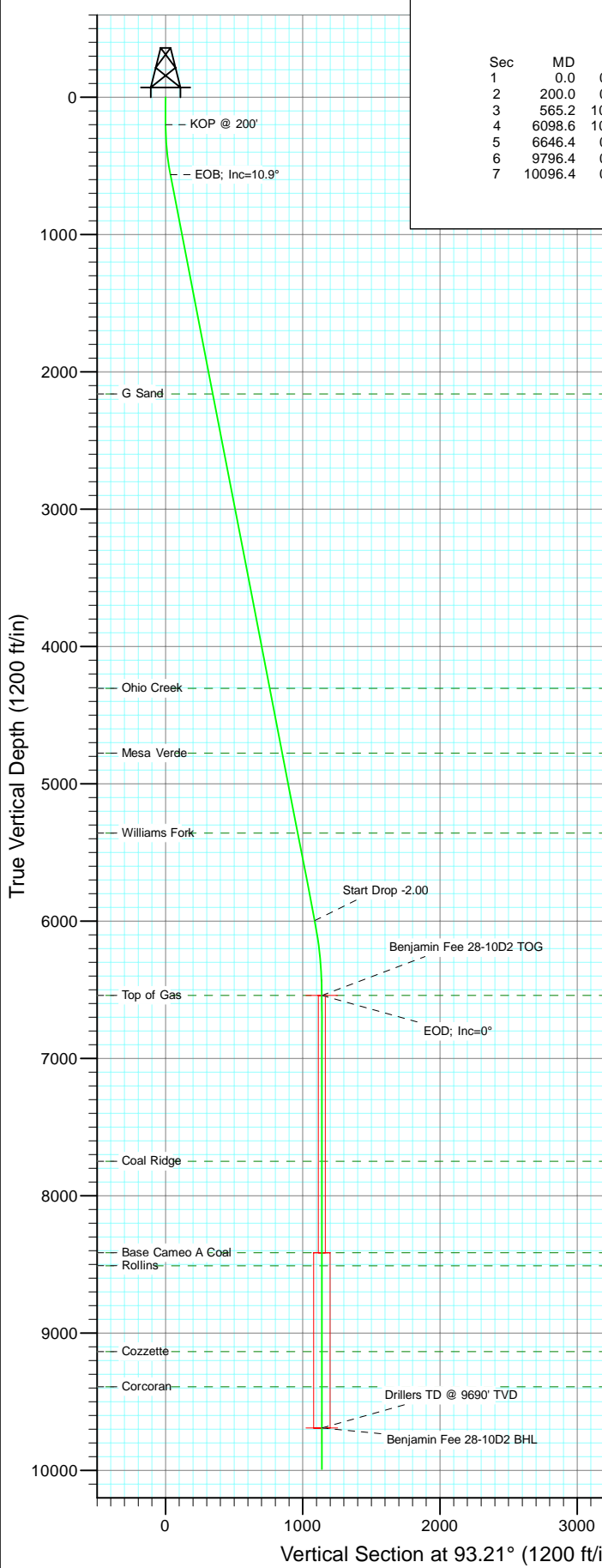
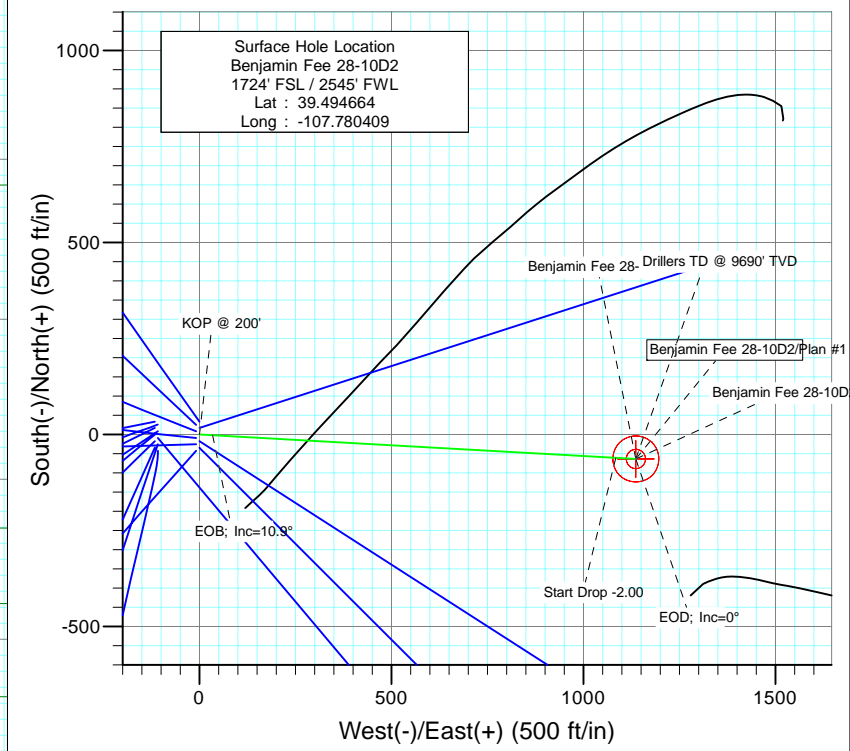




Project: Mamm Creek
 Site: K28NW Pad
 Well: Benjamin Fee 28-10D2
 Wellbore: DD
 Design: Plan #1



| SECTION DETAILS | | | | | | | | | | |
|-----------------|---------|-------|-------|--------|-------|--------|------|--------|--------|--------------------------|
| Sec | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dleg | TFace | V Sect | Target |
| 1 | 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 2 | 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 565.2 | 10.96 | 93.21 | 563.0 | -1.9 | 34.8 | 3.00 | 93.21 | 34.8 | |
| 4 | 6098.6 | 10.96 | 93.21 | 5995.6 | -60.8 | 1084.7 | 0.00 | 0.00 | 1086.4 | |
| 5 | 6646.4 | 0.00 | 0.00 | 6540.0 | -63.7 | 1136.9 | 2.00 | 180.00 | 1138.6 | Benjamin Fee 28-10D2 TOG |
| 6 | 9796.4 | 0.00 | 0.00 | 9690.0 | -63.7 | 1136.9 | 0.00 | 0.00 | 1138.6 | Benjamin Fee 28-10D2 BHL |
| 7 | 10096.4 | 0.00 | 0.00 | 9990.0 | -63.7 | 1136.9 | 0.00 | 0.00 | 1138.6 | |



| FORMATION TOP DETAILS | | |
|-----------------------|--------|-------------------|
| TVDPath | MDPath | Formation |
| 2161.0 | 2192.9 | G Sand |
| 4305.0 | 4376.7 | Ohio Creek |
| 4777.0 | 4857.4 | Mesa Verde |
| 5359.0 | 5450.3 | Williams Fork |
| 6540.0 | 6646.4 | Top of Gas |
| 7749.0 | 7855.4 | Coal Ridge |
| 8415.0 | 8521.4 | Base Cameo A Coal |
| 8510.0 | 8616.4 | Rollins |
| 9135.0 | 9241.4 | Cozzette |
| 9390.0 | 9496.4 | Corcoran |

Azimuths to True North
 Magnetic North: 10.36°
 Magnetic Field
 Strength: 52406.1snT
 Dip Angle: 65.82°
 Date: 6/23/2010
 Model: IGRF200510

| Plan #1 | | | | | | |
|---------------------------------------|--------|--------------------------|---------|--------|-----------|-------------|
| Benjamin Fee 28-10D2 | | | | | | |
| (1650 FSL - 1530 FEL) Job #10xxx: KR | | | | | | |
| WELL @ 5965.0ft (Original Well Elev) | | | | | | |
| North American Datum 1983 | | | | | | |
| Well Benjamin Fee 28-10D2, True North | | | | | | |
| Type | Target | Target | Azimuth | Origin | Type | N/S |
| Name | Target | Benjamin Fee 28-10D2 BHL | 93.21 | Slot | 0.0 | E/W |
| | TVD | 9690.0 | +N/-S | -63.7 | Latitude | 39.494489 |
| | | | +E/-W | 1136.9 | Longitude | -107.776381 |

Cathedral Energy Services

Planning Report

| | |
|---|---|
| Database: EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: Well Benjamin Fee 28-10D2 |
| Company: EnCana Oil & Gas (USA) Inc | TVD Reference: WELL @ 5965.0ft (Original Well Elev) |
| Project: Mamm Creek | MD Reference: WELL @ 5965.0ft (Original Well Elev) |
| Site: K28NW Pad | North Reference: True |
| Well: Benjamin Fee 28-10D2 | Survey Calculation Method: Minimum Curvature |
| Wellbore: DD | |
| Design: Plan #1 | |

| | | |
|---|-------------------------------------|--|
| Project Mamm Creek | | |
| Map System: US State Plane 1983 | System Datum: Mean Sea Level | |
| Geo Datum: North American Datum 1983 | | |
| Map Zone: Colorado Central Zone | | |

| | | | | | |
|------------------------------|----------|---------------------|-----------------|--------------------------|-------------|
| Site K28NW Pad | | | | | |
| Site Position: | | Northing: | 1,613,160.16 ft | Latitude: | 39.494711 |
| From: | Lat/Long | Easting: | 2,356,412.22 ft | Longitude: | -107.780819 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.44 ° |

| | | | | | |
|----------------------------------|--------------|--------|----------------------------|-----------------|---------------------------------|
| Well Benjamin Fee 28-10D2 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,613,140.05 ft | Latitude: 39.494664 |
| | +E/-W | 0.0 ft | Easting: | 2,356,527.58 ft | Longitude: -107.780409 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: 5,943.0 ft |

| | | | | | |
|--------------------|-------------------|--------------------|--------------------|------------------|-----------------------|
| Wellbore DD | | | | | |
| Magnetics | Model Name | Sample Date | Declination | Dip Angle | Field Strength |
| | | | (°) | (°) | (nT) |
| | IGRF200510 | 6/23/2010 | 10.36 | 65.82 | 52,406 |

| | | | | |
|--------------------------|-------------------------|--------------|----------------------|------------------|
| Design Plan #1 | | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) | +N/-S | +E/-W | Direction |
| | (ft) | (ft) | (ft) | (°) |
| | 0.0 | 0.0 | 0.0 | 93.21 |

| Plan Sections | | | | | | | | | | |
|----------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|----------------------|---------------------|---------|---------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) | TFO (°) | Target |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 565.2 | 10.96 | 93.21 | 563.0 | -1.9 | 34.8 | 3.00 | 3.00 | 0.00 | 93.21 | |
| 6,098.6 | 10.96 | 93.21 | 5,995.6 | -60.8 | 1,084.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,646.4 | 0.00 | 0.00 | 6,540.0 | -63.7 | 1,136.9 | 2.00 | -2.00 | 0.00 | 180.00 | Benjamin Fee 28-10D |
| 9,796.4 | 0.00 | 0.00 | 9,690.0 | -63.7 | 1,136.9 | 0.00 | 0.00 | 0.00 | 0.00 | Benjamin Fee 28-10D |
| 10,096.4 | 0.00 | 0.00 | 9,990.0 | -63.7 | 1,136.9 | 0.00 | 0.00 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | |
|---|---|
| Database: EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: Well Benjamin Fee 28-10D2 |
| Company: EnCana Oil & Gas (USA) Inc | TVD Reference: WELL @ 5965.0ft (Original Well Elev) |
| Project: Mamm Creek | MD Reference: WELL @ 5965.0ft (Original Well Elev) |
| Site: K28NW Pad | North Reference: True |
| Well: Benjamin Fee 28-10D2 | Survey Calculation Method: Minimum Curvature |
| Wellbore: DD | |
| Design: Plan #1 | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | 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 | KOP @ 200' |
| 300.0 | 3.00 | 93.21 | 300.0 | -0.1 | 2.6 | 2.6 | 3.00 | 3.00 | |
| 400.0 | 6.00 | 93.21 | 399.6 | -0.6 | 10.4 | 10.5 | 3.00 | 3.00 | |
| 500.0 | 9.00 | 93.21 | 498.8 | -1.3 | 23.5 | 23.5 | 3.00 | 3.00 | |
| 565.2 | 10.96 | 93.21 | 563.0 | -1.9 | 34.8 | 34.8 | 3.00 | 3.00 | EOB; Inc=10.9° |
| 600.0 | 10.96 | 93.21 | 597.1 | -2.3 | 41.4 | 41.4 | 0.00 | 0.00 | |
| 700.0 | 10.96 | 93.21 | 695.3 | -3.4 | 60.3 | 60.4 | 0.00 | 0.00 | |
| 800.0 | 10.96 | 93.21 | 793.5 | -4.4 | 79.3 | 79.4 | 0.00 | 0.00 | |
| 900.0 | 10.96 | 93.21 | 891.7 | -5.5 | 98.3 | 98.4 | 0.00 | 0.00 | |
| 1,000.0 | 10.96 | 93.21 | 989.9 | -6.6 | 117.3 | 117.4 | 0.00 | 0.00 | |
| 1,100.0 | 10.96 | 93.21 | 1,088.0 | -7.6 | 136.2 | 136.4 | 0.00 | 0.00 | |
| 1,200.0 | 10.96 | 93.21 | 1,186.2 | -8.7 | 155.2 | 155.5 | 0.00 | 0.00 | |
| 1,300.0 | 10.96 | 93.21 | 1,284.4 | -9.8 | 174.2 | 174.5 | 0.00 | 0.00 | |
| 1,400.0 | 10.96 | 93.21 | 1,382.6 | -10.8 | 193.2 | 193.5 | 0.00 | 0.00 | |
| 1,500.0 | 10.96 | 93.21 | 1,480.7 | -11.9 | 212.1 | 212.5 | 0.00 | 0.00 | |
| 1,514.0 | 10.96 | 93.21 | 1,494.5 | -12.0 | 214.8 | 215.1 | 0.00 | 0.00 | Surface Casing |
| 1,600.0 | 10.96 | 93.21 | 1,578.9 | -13.0 | 231.1 | 231.5 | 0.00 | 0.00 | |
| 1,700.0 | 10.96 | 93.21 | 1,677.1 | -14.0 | 250.1 | 250.5 | 0.00 | 0.00 | |
| 1,800.0 | 10.96 | 93.21 | 1,775.3 | -15.1 | 269.1 | 269.5 | 0.00 | 0.00 | |
| 1,900.0 | 10.96 | 93.21 | 1,873.5 | -16.1 | 288.0 | 288.5 | 0.00 | 0.00 | |
| 2,000.0 | 10.96 | 93.21 | 1,971.6 | -17.2 | 307.0 | 307.5 | 0.00 | 0.00 | |
| 2,100.0 | 10.96 | 93.21 | 2,069.8 | -18.3 | 326.0 | 326.5 | 0.00 | 0.00 | |
| 2,192.9 | 10.96 | 93.21 | 2,161.0 | -19.3 | 343.6 | 344.1 | 0.00 | 0.00 | G Sand |
| 2,200.0 | 10.96 | 93.21 | 2,168.0 | -19.3 | 345.0 | 345.5 | 0.00 | 0.00 | |
| 2,300.0 | 10.96 | 93.21 | 2,266.2 | -20.4 | 363.9 | 364.5 | 0.00 | 0.00 | |
| 2,400.0 | 10.96 | 93.21 | 2,364.3 | -21.5 | 382.9 | 383.5 | 0.00 | 0.00 | |
| 2,500.0 | 10.96 | 93.21 | 2,462.5 | -22.5 | 401.9 | 402.5 | 0.00 | 0.00 | |
| 2,600.0 | 10.96 | 93.21 | 2,560.7 | -23.6 | 420.9 | 421.5 | 0.00 | 0.00 | |
| 2,700.0 | 10.96 | 93.21 | 2,658.9 | -24.6 | 439.8 | 440.5 | 0.00 | 0.00 | |
| 2,800.0 | 10.96 | 93.21 | 2,757.0 | -25.7 | 458.8 | 459.5 | 0.00 | 0.00 | |
| 2,900.0 | 10.96 | 93.21 | 2,855.2 | -26.8 | 477.8 | 478.5 | 0.00 | 0.00 | |
| 3,000.0 | 10.96 | 93.21 | 2,953.4 | -27.8 | 496.8 | 497.5 | 0.00 | 0.00 | |
| 3,100.0 | 10.96 | 93.21 | 3,051.6 | -28.9 | 515.7 | 516.5 | 0.00 | 0.00 | |
| 3,200.0 | 10.96 | 93.21 | 3,149.8 | -30.0 | 534.7 | 535.5 | 0.00 | 0.00 | |
| 3,300.0 | 10.96 | 93.21 | 3,247.9 | -31.0 | 553.7 | 554.6 | 0.00 | 0.00 | |
| 3,400.0 | 10.96 | 93.21 | 3,346.1 | -32.1 | 572.7 | 573.6 | 0.00 | 0.00 | |
| 3,500.0 | 10.96 | 93.21 | 3,444.3 | -33.2 | 591.6 | 592.6 | 0.00 | 0.00 | |
| 3,600.0 | 10.96 | 93.21 | 3,542.5 | -34.2 | 610.6 | 611.6 | 0.00 | 0.00 | |
| 3,700.0 | 10.96 | 93.21 | 3,640.6 | -35.3 | 629.6 | 630.6 | 0.00 | 0.00 | |
| 3,800.0 | 10.96 | 93.21 | 3,738.8 | -36.3 | 648.6 | 649.6 | 0.00 | 0.00 | |
| 3,900.0 | 10.96 | 93.21 | 3,837.0 | -37.4 | 667.5 | 668.6 | 0.00 | 0.00 | |
| 4,000.0 | 10.96 | 93.21 | 3,935.2 | -38.5 | 686.5 | 687.6 | 0.00 | 0.00 | |
| 4,100.0 | 10.96 | 93.21 | 4,033.4 | -39.5 | 705.5 | 706.6 | 0.00 | 0.00 | |
| 4,200.0 | 10.96 | 93.21 | 4,131.5 | -40.6 | 724.5 | 725.6 | 0.00 | 0.00 | |
| 4,300.0 | 10.96 | 93.21 | 4,229.7 | -41.7 | 743.4 | 744.6 | 0.00 | 0.00 | |
| 4,376.7 | 10.96 | 93.21 | 4,305.0 | -42.5 | 758.0 | 759.2 | 0.00 | 0.00 | Ohio Creek |
| 4,400.0 | 10.96 | 93.21 | 4,327.9 | -42.7 | 762.4 | 763.6 | 0.00 | 0.00 | |
| 4,500.0 | 10.96 | 93.21 | 4,426.1 | -43.8 | 781.4 | 782.6 | 0.00 | 0.00 | |
| 4,600.0 | 10.96 | 93.21 | 4,524.2 | -44.9 | 800.4 | 801.6 | 0.00 | 0.00 | |
| 4,700.0 | 10.96 | 93.21 | 4,622.4 | -45.9 | 819.3 | 820.6 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Benjamin Fee 28-10D2 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5965.0ft (Original Well Elev) |
| Project: | Mamm Creek | MD Reference: | WELL @ 5965.0ft (Original Well Elev) |
| Site: | K28NW Pad | North Reference: | True |
| Well: | Benjamin Fee 28-10D2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|---|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 4,800.0 | 10.96 | 93.21 | 4,720.6 | -47.0 | 838.3 | 839.6 | 0.00 | 0.00 | |
| 4,857.4 | 10.96 | 93.21 | 4,777.0 | -47.6 | 849.2 | 850.5 | 0.00 | 0.00 | Mesa Verde |
| 4,900.0 | 10.96 | 93.21 | 4,818.8 | -48.0 | 857.3 | 858.6 | 0.00 | 0.00 | |
| 5,000.0 | 10.96 | 93.21 | 4,917.0 | -49.1 | 876.3 | 877.6 | 0.00 | 0.00 | |
| 5,100.0 | 10.96 | 93.21 | 5,015.1 | -50.2 | 895.2 | 896.6 | 0.00 | 0.00 | |
| 5,200.0 | 10.96 | 93.21 | 5,113.3 | -51.2 | 914.2 | 915.6 | 0.00 | 0.00 | |
| 5,300.0 | 10.96 | 93.21 | 5,211.5 | -52.3 | 933.2 | 934.7 | 0.00 | 0.00 | |
| 5,400.0 | 10.96 | 93.21 | 5,309.7 | -53.4 | 952.2 | 953.7 | 0.00 | 0.00 | |
| 5,450.3 | 10.96 | 93.21 | 5,359.0 | -53.9 | 961.7 | 963.2 | 0.00 | 0.00 | Williams Fork |
| 5,500.0 | 10.96 | 93.21 | 5,407.8 | -54.4 | 971.1 | 972.7 | 0.00 | 0.00 | |
| 5,600.0 | 10.96 | 93.21 | 5,506.0 | -55.5 | 990.1 | 991.7 | 0.00 | 0.00 | |
| 5,700.0 | 10.96 | 93.21 | 5,604.2 | -56.5 | 1,009.1 | 1,010.7 | 0.00 | 0.00 | |
| 5,800.0 | 10.96 | 93.21 | 5,702.4 | -57.6 | 1,028.1 | 1,029.7 | 0.00 | 0.00 | |
| 5,900.0 | 10.96 | 93.21 | 5,800.6 | -58.7 | 1,047.0 | 1,048.7 | 0.00 | 0.00 | |
| 6,000.0 | 10.96 | 93.21 | 5,898.7 | -59.7 | 1,066.0 | 1,067.7 | 0.00 | 0.00 | |
| 6,098.6 | 10.96 | 93.21 | 5,995.6 | -60.8 | 1,084.7 | 1,086.4 | 0.00 | 0.00 | Start Drop -2.00 |
| 6,100.0 | 10.93 | 93.21 | 5,996.9 | -60.8 | 1,085.0 | 1,086.7 | 2.00 | -2.00 | |
| 6,200.0 | 8.93 | 93.21 | 6,095.4 | -61.8 | 1,102.2 | 1,103.9 | 2.00 | -2.00 | |
| 6,300.0 | 6.93 | 93.21 | 6,194.4 | -62.5 | 1,116.0 | 1,117.7 | 2.00 | -2.00 | |
| 6,400.0 | 4.93 | 93.21 | 6,293.9 | -63.1 | 1,126.3 | 1,128.0 | 2.00 | -2.00 | |
| 6,500.0 | 2.93 | 93.21 | 6,393.7 | -63.5 | 1,133.1 | 1,134.9 | 2.00 | -2.00 | |
| 6,600.0 | 0.93 | 93.21 | 6,493.6 | -63.7 | 1,136.5 | 1,138.3 | 2.00 | -2.00 | |
| 6,646.4 | 0.00 | 0.00 | 6,540.0 | -63.7 | 1,136.9 | 1,138.6 | 2.00 | -2.00 | EOD; Inc=0° - Top of Gas - Benjamin Fee 28-10D2 |
| 6,700.0 | 0.00 | 0.00 | 6,593.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 6,800.0 | 0.00 | 0.00 | 6,693.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 6,900.0 | 0.00 | 0.00 | 6,793.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,000.0 | 0.00 | 0.00 | 6,893.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,100.0 | 0.00 | 0.00 | 6,993.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,200.0 | 0.00 | 0.00 | 7,093.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,193.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,293.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,393.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,493.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,700.0 | 0.00 | 0.00 | 7,593.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,693.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 7,855.4 | 0.00 | 0.00 | 7,749.0 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | Coal Ridge |
| 7,900.0 | 0.00 | 0.00 | 7,793.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,893.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 7,993.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 8,093.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,193.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,293.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,393.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,521.4 | 0.00 | 0.00 | 8,415.0 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | Base Cameo A Coal |
| 8,600.0 | 0.00 | 0.00 | 8,493.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,616.4 | 0.00 | 0.00 | 8,510.0 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | Rollins |
| 8,700.0 | 0.00 | 0.00 | 8,593.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,693.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,793.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,000.0 | 0.00 | 0.00 | 8,893.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,100.0 | 0.00 | 0.00 | 8,993.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,200.0 | 0.00 | 0.00 | 9,093.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Benjamin Fee 28-10D2 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5965.0ft (Original Well Elev) |
| Project: | Mamm Creek | MD Reference: | WELL @ 5965.0ft (Original Well Elev) |
| Site: | K28NW Pad | North Reference: | True |
| Well: | Benjamin Fee 28-10D2 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 9,241.4 | 0.00 | 0.00 | 9,135.0 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | Cozzette |
| 9,300.0 | 0.00 | 0.00 | 9,193.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,400.0 | 0.00 | 0.00 | 9,293.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,496.4 | 0.00 | 0.00 | 9,390.0 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | Corcoran |
| 9,500.0 | 0.00 | 0.00 | 9,393.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,600.0 | 0.00 | 0.00 | 9,493.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,700.0 | 0.00 | 0.00 | 9,593.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,796.4 | 0.00 | 0.00 | 9,690.0 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | Drillers TD @ 9690' TVD - Benjamin Fee 28-10 |
| 9,800.0 | 0.00 | 0.00 | 9,693.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 9,900.0 | 0.00 | 0.00 | 9,793.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 10,000.0 | 0.00 | 0.00 | 9,893.6 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | |
| 10,096.4 | 0.00 | 0.00 | 9,990.0 | -63.7 | 1,136.9 | 1,138.6 | 0.00 | 0.00 | Permit TD @ 9990' TVD |

| Targets | | | | | | | | | |
|---|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
| Benjamin Fee 28-10D2 I - plan hits target center - Circle (radius 60.0) | 0.00 | 0.00 | 9,690.0 | -63.7 | 1,136.9 | 1,613,047.83 | 2,357,662.48 | 39.494489 | -107.776381 |
| Benjamin Fee 28-10D2 * - plan hits target center - Circle (radius 25.0) | 0.00 | 0.00 | 6,540.0 | -63.7 | 1,136.9 | 1,613,047.83 | 2,357,662.48 | 39.494489 | -107.776381 |

| Casing Points | | | | | |
|---------------------|---------------------|----------------|----------------------|--------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Casing Diameter (in) | Hole Diameter (in) | |
| 1,514.0 | 1,494.5 | Surface Casing | | | |

| Formations | | | | | | |
|---------------------|---------------------|-------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 2,192.9 | 2,161.0 | G Sand | | | | |
| 4,376.7 | 4,305.0 | Ohio Creek | | | | |
| 4,857.4 | 4,777.0 | Mesa Verde | | | | |
| 5,450.3 | 5,359.0 | Williams Fork | | | | |
| 6,646.4 | 6,540.0 | Top of Gas | | | | |
| 7,855.4 | 7,749.0 | Coal Ridge | | | | |
| 8,521.4 | 8,415.0 | Base Cameo A Coal | | | | |
| 8,616.4 | 8,510.0 | Rollins | | | | |
| 9,241.4 | 9,135.0 | Cozzette | | | | |
| 9,496.4 | 9,390.0 | Corcoran | | | | |

Cathedral Energy Services

Planning Report

| | | |
|---|---|--|
| Database: EDM 5000.1 US Multi Users DB Company: EnCana Oil & Gas (USA) Inc Project: Mamm Creek Site: K28NW Pad Well: Benjamin Fee 28-10D2 Wellbore: DD Design: Plan #1 | Local Co-ordinate Reference: TVD Reference: WELL @ 5965.0ft (Original Well Elev) MD Reference: WELL @ 5965.0ft (Original Well Elev) North Reference: True Survey Calculation Method: Minimum Curvature | |
|---|---|--|

| Plan Annotations | | | | |
|---------------------------|---------------------------|-------------------|---------------|-------------------------|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | Comment |
| | | +N/-S (ft) | +E/-W (ft) | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP @ 200' |
| 565.2 | 563.0 | -1.9 | 34.8 | EOB; Inc=10.9° |
| 6,098.6 | 5,995.6 | -60.8 | 1,084.7 | Start Drop -2.00 |
| 6,646.4 | 6,540.0 | -63.7 | 1,136.9 | EOD; Inc=0° |
| 9,796.4 | 9,690.0 | -63.7 | 1,136.9 | Drillers TD @ 9690' TVD |
| 10,096.4 | 9,990.0 | -63.7 | 1,136.9 | Permit TD @ 9990' TVD |