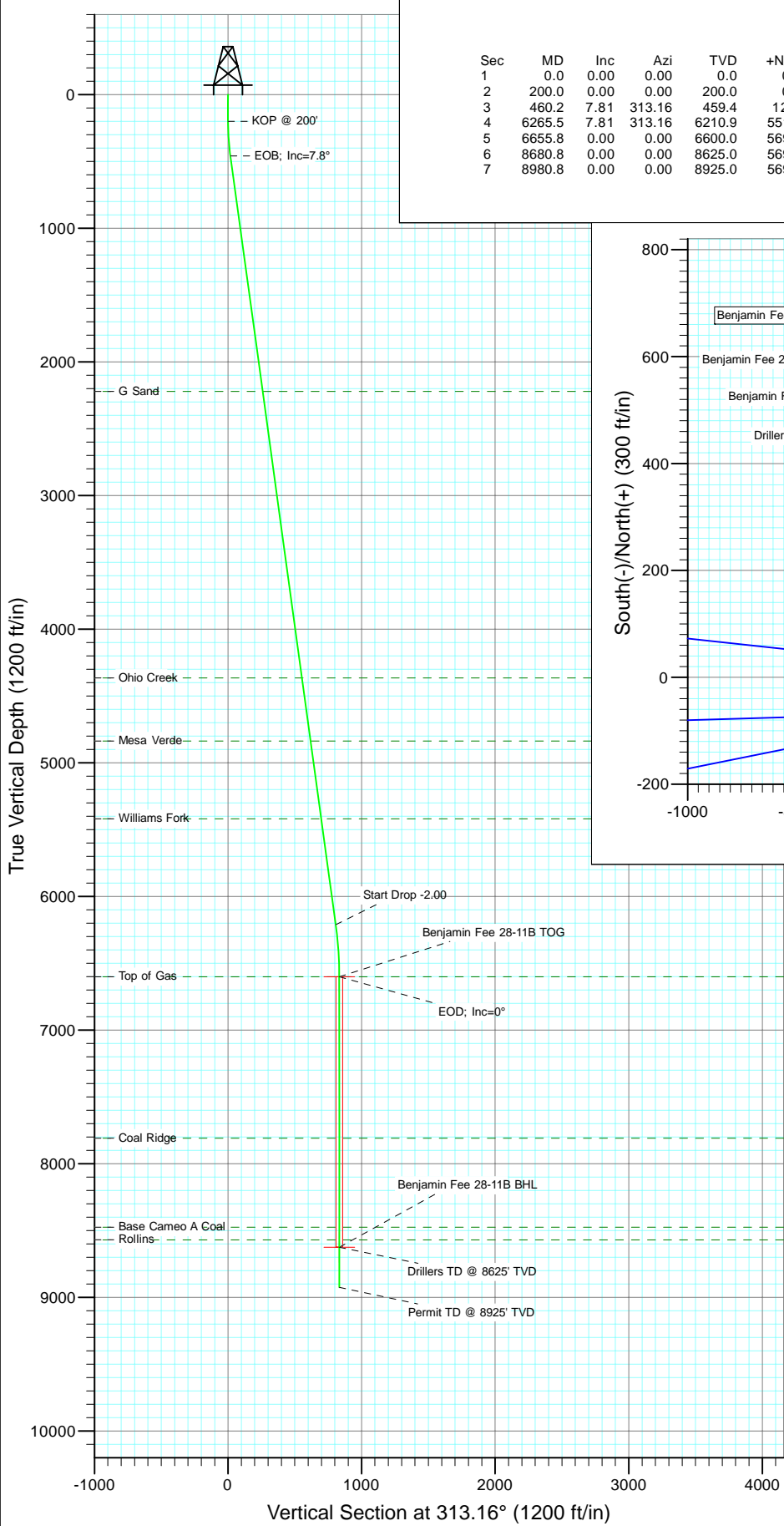
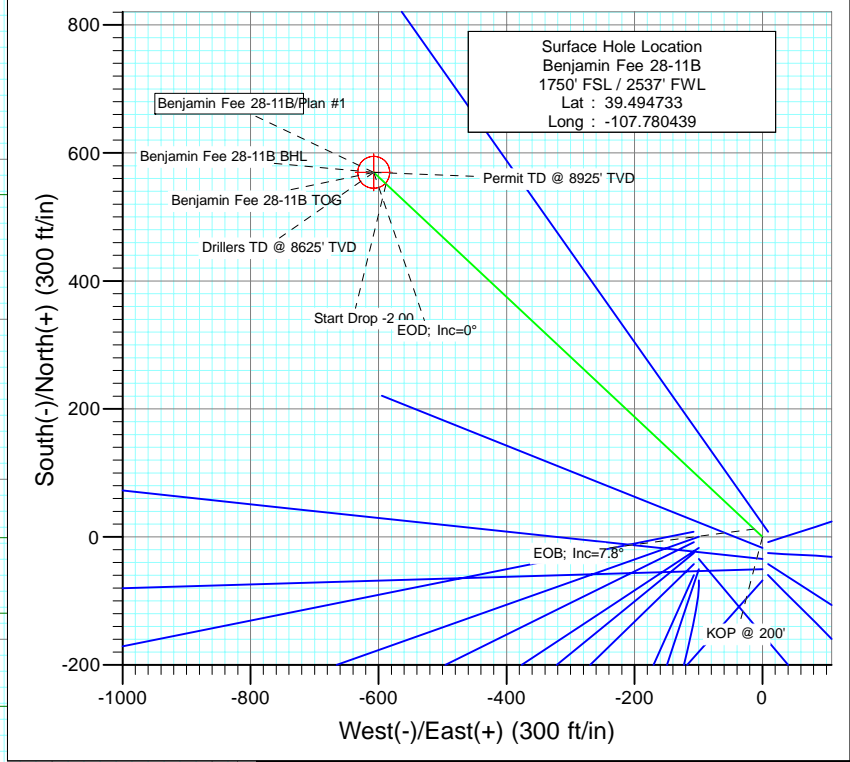




Project: Mamm Creek
 Site: K28NW Pad
 Well: Benjamin Fee 28-11B
 Wellbore: DD
 Design: Plan #1



| 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 | 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | |
| 3 | 460.2 | 7.81 | 313.16 | 459.4 | 12.1 | -12.9 | 3.00 | 313.16 | 17.7 | |
| 4 | 6265.5 | 7.81 | 313.16 | 6210.9 | 551.5 | -588.1 | 0.00 | 0.00 | 806.3 | |
| 5 | 6655.8 | 0.00 | 0.00 | 6600.0 | 569.6 | -607.5 | 2.00 | 180.00 | 832.8 | Benjamin Fee 28-11B TOG |
| 6 | 8680.8 | 0.00 | 0.00 | 8625.0 | 569.6 | -607.5 | 0.00 | 0.00 | 832.8 | Benjamin Fee 28-11B BHL |
| 7 | 8980.8 | 0.00 | 0.00 | 8925.0 | 569.6 | -607.5 | 0.00 | 0.00 | 832.8 | |



| FORMATION TOP DETAILS | | |
|-----------------------|--------|-------------------|
| TVDPath | MDPath | Formation |
| 2221.0 | 2238.3 | G Sand |
| 4365.0 | 4402.3 | Ohio Creek |
| 4837.0 | 4878.8 | Mesa Verde |
| 5419.0 | 5466.2 | Williams Fork |
| 6600.0 | 6655.8 | Top of Gas |
| 7809.0 | 7864.8 | Coal Ridge |
| 8475.0 | 8530.8 | Base Cameo A Coal |
| 8570.0 | 8625.8 | Rollins |

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 28-11B (2330 FSL - 1950 FWL) Job 10xxx: KR | | | | | | |
|---|-------------------------|--------|---------|-------------|-----------|-------------|
| WELL @ 5965.0ft (Original Well Elev) North American Datum 1983 Well Benjamin Fee 28-11B, True North | | | | | | |
| Type Target | Target | TVD | Azimuth | Origin Type | N/S | E/W From |
| | Benjamin Fee 28-11B BHL | | 313.16 | Slot | 0.0 | 0.0 |
| Name | Benjamin Fee 28-11B BHL | TVD | +N/-S | +E/-W | Latitude | Longitude |
| | | 8625.0 | 569.6 | -607.5 | 39.496297 | -107.782592 |

Cathedral Energy Services

Planning Report

| | |
|---|--|
| Database: EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: Well Benjamin Fee 28-11B |
| 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 28-11B | 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 28-11B | | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,613,165.55 ft | Latitude: | 39.494733 |
| | +E/-W | 0.0 ft | Easting: | 2,356,519.79 ft | Longitude: | -107.780439 |
| 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 |
| | IGRF200510 | 6/23/2010 | (°) | (°) | (nT) |
| | | | 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 | 313.16 | |

| 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 | |
| 460.2 | 7.81 | 313.16 | 459.4 | 12.1 | -12.9 | 3.00 | 3.00 | 0.00 | 313.16 | |
| 6,265.5 | 7.81 | 313.16 | 6,210.9 | 551.5 | -588.1 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,655.8 | 0.00 | 0.00 | 6,600.0 | 569.6 | -607.5 | 2.00 | -2.00 | 0.00 | 180.00 | Benjamin Fee 28-11B |
| 8,680.8 | 0.00 | 0.00 | 8,625.0 | 569.6 | -607.5 | 0.00 | 0.00 | 0.00 | 0.00 | Benjamin Fee 28-11B |
| 8,980.8 | 0.00 | 0.00 | 8,925.0 | 569.6 | -607.5 | 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 28-11B |
| 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 28-11B | 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 | 313.16 | 300.0 | 1.8 | -1.9 | 2.6 | 3.00 | 3.00 | |
| 400.0 | 6.00 | 313.16 | 399.6 | 7.2 | -7.6 | 10.5 | 3.00 | 3.00 | |
| 460.2 | 7.81 | 313.16 | 459.4 | 12.1 | -12.9 | 17.7 | 3.00 | 3.00 | EOB; Inc=7.8° |
| 500.0 | 7.81 | 313.16 | 498.8 | 15.8 | -16.9 | 23.1 | 0.00 | 0.00 | |
| 600.0 | 7.81 | 313.16 | 597.9 | 25.1 | -26.8 | 36.7 | 0.00 | 0.00 | |
| 700.0 | 7.81 | 313.16 | 697.0 | 34.4 | -36.7 | 50.3 | 0.00 | 0.00 | |
| 800.0 | 7.81 | 313.16 | 796.0 | 43.7 | -46.6 | 63.9 | 0.00 | 0.00 | |
| 900.0 | 7.81 | 313.16 | 895.1 | 53.0 | -56.5 | 77.4 | 0.00 | 0.00 | |
| 1,000.0 | 7.81 | 313.16 | 994.2 | 62.3 | -66.4 | 91.0 | 0.00 | 0.00 | |
| 1,100.0 | 7.81 | 313.16 | 1,093.3 | 71.6 | -76.3 | 104.6 | 0.00 | 0.00 | |
| 1,200.0 | 7.81 | 313.16 | 1,192.3 | 80.8 | -86.2 | 118.2 | 0.00 | 0.00 | |
| 1,300.0 | 7.81 | 313.16 | 1,291.4 | 90.1 | -96.1 | 131.8 | 0.00 | 0.00 | |
| 1,347.0 | 7.81 | 313.16 | 1,338.0 | 94.5 | -100.8 | 138.2 | 0.00 | 0.00 | Surface Casing |
| 1,400.0 | 7.81 | 313.16 | 1,390.5 | 99.4 | -106.0 | 145.4 | 0.00 | 0.00 | |
| 1,500.0 | 7.81 | 313.16 | 1,489.6 | 108.7 | -115.9 | 158.9 | 0.00 | 0.00 | |
| 1,600.0 | 7.81 | 313.16 | 1,588.6 | 118.0 | -125.9 | 172.5 | 0.00 | 0.00 | |
| 1,700.0 | 7.81 | 313.16 | 1,687.7 | 127.3 | -135.8 | 186.1 | 0.00 | 0.00 | |
| 1,800.0 | 7.81 | 313.16 | 1,786.8 | 136.6 | -145.7 | 199.7 | 0.00 | 0.00 | |
| 1,900.0 | 7.81 | 313.16 | 1,885.9 | 145.9 | -155.6 | 213.3 | 0.00 | 0.00 | |
| 2,000.0 | 7.81 | 313.16 | 1,984.9 | 155.2 | -165.5 | 226.9 | 0.00 | 0.00 | |
| 2,100.0 | 7.81 | 313.16 | 2,084.0 | 164.5 | -175.4 | 240.4 | 0.00 | 0.00 | |
| 2,200.0 | 7.81 | 313.16 | 2,183.1 | 173.8 | -185.3 | 254.0 | 0.00 | 0.00 | |
| 2,238.3 | 7.81 | 313.16 | 2,221.0 | 177.3 | -189.1 | 259.2 | 0.00 | 0.00 | G Sand |
| 2,300.0 | 7.81 | 313.16 | 2,282.1 | 183.0 | -195.2 | 267.6 | 0.00 | 0.00 | |
| 2,400.0 | 7.81 | 313.16 | 2,381.2 | 192.3 | -205.1 | 281.2 | 0.00 | 0.00 | |
| 2,500.0 | 7.81 | 313.16 | 2,480.3 | 201.6 | -215.0 | 294.8 | 0.00 | 0.00 | |
| 2,600.0 | 7.81 | 313.16 | 2,579.4 | 210.9 | -224.9 | 308.4 | 0.00 | 0.00 | |
| 2,700.0 | 7.81 | 313.16 | 2,678.4 | 220.2 | -234.8 | 321.9 | 0.00 | 0.00 | |
| 2,800.0 | 7.81 | 313.16 | 2,777.5 | 229.5 | -244.8 | 335.5 | 0.00 | 0.00 | |
| 2,900.0 | 7.81 | 313.16 | 2,876.6 | 238.8 | -254.7 | 349.1 | 0.00 | 0.00 | |
| 3,000.0 | 7.81 | 313.16 | 2,975.7 | 248.1 | -264.6 | 362.7 | 0.00 | 0.00 | |
| 3,100.0 | 7.81 | 313.16 | 3,074.7 | 257.4 | -274.5 | 376.3 | 0.00 | 0.00 | |
| 3,200.0 | 7.81 | 313.16 | 3,173.8 | 266.7 | -284.4 | 389.9 | 0.00 | 0.00 | |
| 3,300.0 | 7.81 | 313.16 | 3,272.9 | 276.0 | -294.3 | 403.4 | 0.00 | 0.00 | |
| 3,400.0 | 7.81 | 313.16 | 3,371.9 | 285.2 | -304.2 | 417.0 | 0.00 | 0.00 | |
| 3,500.0 | 7.81 | 313.16 | 3,471.0 | 294.5 | -314.1 | 430.6 | 0.00 | 0.00 | |
| 3,600.0 | 7.81 | 313.16 | 3,570.1 | 303.8 | -324.0 | 444.2 | 0.00 | 0.00 | |
| 3,700.0 | 7.81 | 313.16 | 3,669.2 | 313.1 | -333.9 | 457.8 | 0.00 | 0.00 | |
| 3,800.0 | 7.81 | 313.16 | 3,768.2 | 322.4 | -343.8 | 471.4 | 0.00 | 0.00 | |
| 3,900.0 | 7.81 | 313.16 | 3,867.3 | 331.7 | -353.8 | 484.9 | 0.00 | 0.00 | |
| 4,000.0 | 7.81 | 313.16 | 3,966.4 | 341.0 | -363.7 | 498.5 | 0.00 | 0.00 | |
| 4,100.0 | 7.81 | 313.16 | 4,065.5 | 350.3 | -373.6 | 512.1 | 0.00 | 0.00 | |
| 4,200.0 | 7.81 | 313.16 | 4,164.5 | 359.6 | -383.5 | 525.7 | 0.00 | 0.00 | |
| 4,300.0 | 7.81 | 313.16 | 4,263.6 | 368.9 | -393.4 | 539.3 | 0.00 | 0.00 | |
| 4,400.0 | 7.81 | 313.16 | 4,362.7 | 378.2 | -403.3 | 552.9 | 0.00 | 0.00 | |
| 4,402.3 | 7.81 | 313.16 | 4,365.0 | 378.4 | -403.5 | 553.2 | 0.00 | 0.00 | Ohio Creek |
| 4,500.0 | 7.81 | 313.16 | 4,461.8 | 387.5 | -413.2 | 566.4 | 0.00 | 0.00 | |
| 4,600.0 | 7.81 | 313.16 | 4,560.8 | 396.7 | -423.1 | 580.0 | 0.00 | 0.00 | |
| 4,700.0 | 7.81 | 313.16 | 4,659.9 | 406.0 | -433.0 | 593.6 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Benjamin Fee 28-11B |
| 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 28-11B | 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 | 7.81 | 313.16 | 4,759.0 | 415.3 | -442.9 | 607.2 | 0.00 | 0.00 | |
| 4,878.8 | 7.81 | 313.16 | 4,837.0 | 422.6 | -450.7 | 617.9 | 0.00 | 0.00 | Mesa Verde |
| 4,900.0 | 7.81 | 313.16 | 4,858.0 | 424.6 | -452.8 | 620.8 | 0.00 | 0.00 | |
| 5,000.0 | 7.81 | 313.16 | 4,957.1 | 433.9 | -462.8 | 634.4 | 0.00 | 0.00 | |
| 5,100.0 | 7.81 | 313.16 | 5,056.2 | 443.2 | -472.7 | 647.9 | 0.00 | 0.00 | |
| 5,200.0 | 7.81 | 313.16 | 5,155.3 | 452.5 | -482.6 | 661.5 | 0.00 | 0.00 | |
| 5,300.0 | 7.81 | 313.16 | 5,254.3 | 461.8 | -492.5 | 675.1 | 0.00 | 0.00 | |
| 5,400.0 | 7.81 | 313.16 | 5,353.4 | 471.1 | -502.4 | 688.7 | 0.00 | 0.00 | |
| 5,466.2 | 7.81 | 313.16 | 5,419.0 | 477.2 | -508.9 | 697.7 | 0.00 | 0.00 | Williams Fork |
| 5,500.0 | 7.81 | 313.16 | 5,452.5 | 480.4 | -512.3 | 702.3 | 0.00 | 0.00 | |
| 5,600.0 | 7.81 | 313.16 | 5,551.6 | 489.7 | -522.2 | 715.9 | 0.00 | 0.00 | |
| 5,700.0 | 7.81 | 313.16 | 5,650.6 | 498.9 | -532.1 | 729.4 | 0.00 | 0.00 | |
| 5,800.0 | 7.81 | 313.16 | 5,749.7 | 508.2 | -542.0 | 743.0 | 0.00 | 0.00 | |
| 5,900.0 | 7.81 | 313.16 | 5,848.8 | 517.5 | -551.9 | 756.6 | 0.00 | 0.00 | |
| 6,000.0 | 7.81 | 313.16 | 5,947.9 | 526.8 | -561.8 | 770.2 | 0.00 | 0.00 | |
| 6,100.0 | 7.81 | 313.16 | 6,046.9 | 536.1 | -571.7 | 783.8 | 0.00 | 0.00 | |
| 6,200.0 | 7.81 | 313.16 | 6,146.0 | 545.4 | -581.7 | 797.4 | 0.00 | 0.00 | |
| 6,265.5 | 7.81 | 313.16 | 6,210.9 | 551.5 | -588.1 | 806.3 | 0.00 | 0.00 | Start Drop -2.00 |
| 6,300.0 | 7.12 | 313.16 | 6,245.1 | 554.6 | -591.4 | 810.7 | 2.00 | -2.00 | |
| 6,400.0 | 5.12 | 313.16 | 6,344.5 | 561.8 | -599.2 | 821.4 | 2.00 | -2.00 | |
| 6,500.0 | 3.12 | 313.16 | 6,444.3 | 566.7 | -604.4 | 828.6 | 2.00 | -2.00 | |
| 6,600.0 | 1.12 | 313.16 | 6,544.2 | 569.3 | -607.1 | 832.3 | 2.00 | -2.00 | |
| 6,655.8 | 0.00 | 0.00 | 6,600.0 | 569.6 | -607.5 | 832.8 | 2.00 | -2.00 | EOD; Inc=0° - Top of Gas - Benjamin Fee 28-11 |
| 6,700.0 | 0.00 | 0.00 | 6,644.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 6,800.0 | 0.00 | 0.00 | 6,744.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 6,900.0 | 0.00 | 0.00 | 6,844.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,000.0 | 0.00 | 0.00 | 6,944.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,100.0 | 0.00 | 0.00 | 7,044.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,200.0 | 0.00 | 0.00 | 7,144.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,300.0 | 0.00 | 0.00 | 7,244.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,400.0 | 0.00 | 0.00 | 7,344.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,500.0 | 0.00 | 0.00 | 7,444.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,600.0 | 0.00 | 0.00 | 7,544.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,700.0 | 0.00 | 0.00 | 7,644.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,800.0 | 0.00 | 0.00 | 7,744.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 7,864.8 | 0.00 | 0.00 | 7,809.0 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | Coal Ridge |
| 7,900.0 | 0.00 | 0.00 | 7,844.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,000.0 | 0.00 | 0.00 | 7,944.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,100.0 | 0.00 | 0.00 | 8,044.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,200.0 | 0.00 | 0.00 | 8,144.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,300.0 | 0.00 | 0.00 | 8,244.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,400.0 | 0.00 | 0.00 | 8,344.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,500.0 | 0.00 | 0.00 | 8,444.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,530.8 | 0.00 | 0.00 | 8,475.0 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | Base Cameo A Coal |
| 8,600.0 | 0.00 | 0.00 | 8,544.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,625.8 | 0.00 | 0.00 | 8,570.0 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | Rollins |
| 8,680.8 | 0.00 | 0.00 | 8,625.0 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | Drillers TD @ 8625' TVD - Benjamin Fee 28-11 |
| 8,700.0 | 0.00 | 0.00 | 8,644.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,800.0 | 0.00 | 0.00 | 8,744.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,900.0 | 0.00 | 0.00 | 8,844.2 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | |
| 8,980.8 | 0.00 | 0.00 | 8,925.0 | 569.6 | -607.5 | 832.8 | 0.00 | 0.00 | Permit TD @ 8925' TVD |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|------------------------------|-------------------------------------|--------------------------------------|
| Database: | EDM 5000.1 US Multi Users DB | Local Co-ordinate Reference: | Well Benjamin Fee 28-11B |
| 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 28-11B | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Targets | | | | | | | | | |
|--|-----------|----------|---------|-------|--------|--------------|--------------|-----------|-------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| - Shape | | | | | | | | | |
| Benjamin Fee 28-11B T - plan hits target center - Point | 0.00 | 0.00 | 6,600.0 | 569.6 | -607.5 | 1,613,750.26 | 2,355,926.76 | 39.496297 | -107.782592 |
| Benjamin Fee 28-11B B - plan hits target center - Circle (radius 25.0) | 0.00 | 0.00 | 8,625.0 | 569.6 | -607.5 | 1,613,750.26 | 2,355,926.76 | 39.496297 | -107.782592 |

| Casing Points | | | | |
|----------------|----------------|----------------|-----------------|---------------|
| Measured Depth | Vertical Depth | Name | Casing Diameter | Hole Diameter |
| (ft) | (ft) | | (in) | (in) |
| 1,347.0 | 1,338.0 | Surface Casing | | |

| Formations | | | | | |
|----------------|----------------|-------------------|-----------|-----|---------------|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction |
| (ft) | (ft) | | | (°) | (°) |
| 2,238.3 | 2,221.0 | G Sand | | | |
| 4,402.3 | 4,365.0 | Ohio Creek | | | |
| 4,878.8 | 4,837.0 | Mesa Verde | | | |
| 5,466.2 | 5,419.0 | Williams Fork | | | |
| 6,655.8 | 6,600.0 | Top of Gas | | | |
| 7,864.8 | 7,809.0 | Coal Ridge | | | |
| 8,530.8 | 8,475.0 | Base Cameo A Coal | | | |
| 8,625.8 | 8,570.0 | Rollins | | | |

| Plan Annotations | | | | |
|------------------|----------------|-------------------|------------|-------------------------|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment |
| (ft) | (ft) | +N/-S (ft) | +E/-W (ft) | |
| 200.0 | 200.0 | 0.0 | 0.0 | KOP @ 200' |
| 460.2 | 459.4 | 12.1 | -12.9 | EOB; Inc=7.8° |
| 6,265.5 | 6,210.9 | 551.5 | -588.1 | Start Drop -2.00 |
| 6,655.8 | 6,600.0 | 569.6 | -607.5 | EOD; Inc=0° |
| 8,680.8 | 8,625.0 | 569.6 | -607.5 | Drillers TD @ 8625' TVD |
| 8,980.8 | 8,925.0 | 569.6 | -607.5 | Permit TD @ 8925' TVD |