



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well 8511A-34 E34 496 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 8324.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | WELL @ 8324.0ft (Original Well Elev) |
| Site: | S33-T4S-R96W (E34 496) | North Reference: | True |
| Well: | 8511A-34 E34 496 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

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

| | | | | | |
|-----------------------|----------|------------------------|-----------------|-------------------|------------------|
| Site | | S33-T4S-R96W (E34 496) | | | |
| Site Position: | | Northing: | 1,676,257.20 ft | Latitude: | 39° 39' 36.020 N |
| From: | Lat/Long | Easting: | 2,251,040.13 ft | Longitude: | 108° 9' 38.140 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.68 ° |

| | | | | | | |
|----------------------|------------------|--------|---------------------|-----------------|---------------|------------------|
| Well | 8511A-34 E34 496 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,676,207.58 ft | Latitude: | 39° 39' 35.530 N |
| | +E/-W | 0.0 ft | Easting: | 2,251,040.24 ft | Longitude: | 108° 9' 38.120 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 8,301.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 6/19/2012 | 10.32 | 65.82 | 52,197 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #1 | | | |
| Audit Notes: | | | | |
| Version: | Phase: | PLAN | Tie On Depth: | 0.0 |
| Vertical Section: | Depth From (TVD) (ft) | +N/-S (ft) | +E/-W (ft) | Direction (°) |
| | 0.0 | 0.0 | 0.0 | 142.23 |

| 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 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 474.2 | 4.48 | 140.38 | 474.0 | -6.8 | 5.6 | 2.00 | 2.00 | 0.00 | 140.38 | |
| 7,390.4 | 4.48 | 140.38 | 7,369.0 | -423.3 | 350.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,614.6 | 0.00 | 0.00 | 7,593.0 | -430.1 | 356.0 | 2.00 | -2.00 | 0.00 | 180.00 | E34 496 8511A-34 TC |
| 7,659.1 | 0.22 | 236.26 | 7,637.5 | -430.1 | 355.9 | 0.50 | 0.50 | -277.99 | 236.26 | |
| 12,284.7 | 0.22 | 236.26 | 12,263.0 | -440.1 | 341.0 | 0.00 | 0.00 | 0.00 | 0.00 | E34 496 8511A-34 PE |
| 12,434.7 | 0.22 | 236.26 | 12,413.0 | -440.5 | 340.5 | 0.00 | 0.00 | 0.00 | 0.00 | |

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| Project: | Story Gulch | MD Reference: | WELL @ 8324.0ft (Original Well Elev) |
| Site: | S33-T4S-R96W (E34 496) | North Reference: | True |
| Well: | 8511A-34 E34 496 | 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 | |
| 250.0 | 0.00 | 0.00 | 250.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 250' |
| 300.0 | 1.00 | 140.38 | 300.0 | -0.3 | 0.3 | 0.4 | 2.00 | 2.00 | |
| 400.0 | 3.00 | 140.38 | 399.9 | -3.0 | 2.5 | 3.9 | 2.00 | 2.00 | |
| 474.2 | 4.48 | 140.38 | 474.0 | -6.8 | 5.6 | 8.8 | 2.00 | 2.00 | EOB; Inc=4.48° |
| 500.0 | 4.48 | 140.38 | 499.7 | -8.3 | 6.9 | 10.8 | 0.00 | 0.00 | |
| 600.0 | 4.48 | 140.38 | 599.4 | -14.3 | 11.9 | 18.6 | 0.00 | 0.00 | |
| 700.0 | 4.48 | 140.38 | 699.1 | -20.4 | 16.8 | 26.4 | 0.00 | 0.00 | |
| 800.0 | 4.48 | 140.38 | 798.8 | -26.4 | 21.8 | 34.2 | 0.00 | 0.00 | |
| 900.0 | 4.48 | 140.38 | 898.5 | -32.4 | 26.8 | 42.0 | 0.00 | 0.00 | |
| 1,000.0 | 4.48 | 140.38 | 998.2 | -38.4 | 31.8 | 49.9 | 0.00 | 0.00 | |
| 1,100.0 | 4.48 | 140.38 | 1,097.9 | -44.4 | 36.8 | 57.7 | 0.00 | 0.00 | |
| 1,191.4 | 4.48 | 140.38 | 1,189.0 | -50.0 | 41.3 | 64.8 | 0.00 | 0.00 | A_GROOVE_TVD |
| 1,200.0 | 4.48 | 140.38 | 1,197.5 | -50.5 | 41.8 | 65.5 | 0.00 | 0.00 | |
| 1,300.0 | 4.48 | 140.38 | 1,297.2 | -56.5 | 46.8 | 73.3 | 0.00 | 0.00 | |
| 1,345.9 | 4.48 | 140.38 | 1,343.0 | -59.3 | 49.1 | 76.9 | 0.00 | 0.00 | B_GROOVE_TVD |
| 1,368.0 | 4.48 | 140.38 | 1,365.0 | -60.6 | 50.2 | 78.6 | 0.00 | 0.00 | B_GROOVE_BASE_TVD |
| 1,400.0 | 4.48 | 140.38 | 1,396.9 | -62.5 | 51.7 | 81.1 | 0.00 | 0.00 | |
| 1,500.0 | 4.48 | 140.38 | 1,496.6 | -68.5 | 56.7 | 88.9 | 0.00 | 0.00 | |
| 1,600.0 | 4.48 | 140.38 | 1,596.3 | -74.6 | 61.7 | 96.7 | 0.00 | 0.00 | |
| 1,700.0 | 4.48 | 140.38 | 1,696.0 | -80.6 | 66.7 | 104.6 | 0.00 | 0.00 | |
| 1,800.0 | 4.48 | 140.38 | 1,795.7 | -86.6 | 71.7 | 112.4 | 0.00 | 0.00 | |
| 1,900.0 | 4.48 | 140.38 | 1,895.4 | -92.6 | 76.7 | 120.2 | 0.00 | 0.00 | |
| 2,000.0 | 4.48 | 140.38 | 1,995.1 | -98.7 | 81.7 | 128.0 | 0.00 | 0.00 | |
| 2,100.0 | 4.48 | 140.38 | 2,094.8 | -104.7 | 86.6 | 135.8 | 0.00 | 0.00 | |
| 2,200.0 | 4.48 | 140.38 | 2,194.5 | -110.7 | 91.6 | 143.6 | 0.00 | 0.00 | |
| 2,293.8 | 4.48 | 140.38 | 2,288.0 | -116.4 | 96.3 | 151.0 | 0.00 | 0.00 | GARDEN_GULCH_TVD |
| 2,300.0 | 4.48 | 140.38 | 2,294.2 | -116.7 | 96.6 | 151.4 | 0.00 | 0.00 | |
| 2,400.0 | 4.48 | 140.38 | 2,393.9 | -122.8 | 101.6 | 159.3 | 0.00 | 0.00 | |
| 2,500.0 | 4.48 | 140.38 | 2,493.6 | -128.8 | 106.6 | 167.1 | 0.00 | 0.00 | |
| 2,600.0 | 4.48 | 140.38 | 2,593.3 | -134.8 | 111.6 | 174.9 | 0.00 | 0.00 | |
| 2,700.0 | 4.48 | 140.38 | 2,693.0 | -140.8 | 116.6 | 182.7 | 0.00 | 0.00 | |
| 2,800.0 | 4.48 | 140.38 | 2,792.7 | -146.8 | 121.5 | 190.5 | 0.00 | 0.00 | |
| 2,900.0 | 4.48 | 140.38 | 2,892.3 | -152.9 | 126.5 | 198.3 | 0.00 | 0.00 | |
| 3,000.0 | 4.48 | 140.38 | 2,992.0 | -158.9 | 131.5 | 206.2 | 0.00 | 0.00 | |
| 3,100.0 | 4.48 | 140.38 | 3,091.7 | -164.9 | 136.5 | 214.0 | 0.00 | 0.00 | |
| 3,200.0 | 4.48 | 140.38 | 3,191.4 | -170.9 | 141.5 | 221.8 | 0.00 | 0.00 | |
| 3,300.0 | 4.48 | 140.38 | 3,291.1 | -177.0 | 146.5 | 229.6 | 0.00 | 0.00 | |
| 3,335.0 | 4.48 | 140.38 | 3,326.0 | -179.1 | 148.2 | 232.3 | 0.00 | 0.00 | WASATCH_FM_TVD |
| 3,400.0 | 4.48 | 140.38 | 3,390.8 | -183.0 | 151.5 | 237.4 | 0.00 | 0.00 | |
| 3,500.0 | 4.48 | 140.38 | 3,490.5 | -189.0 | 156.4 | 245.2 | 0.00 | 0.00 | |
| 3,600.0 | 4.48 | 140.38 | 3,590.2 | -195.0 | 161.4 | 253.0 | 0.00 | 0.00 | |
| 3,700.0 | 4.48 | 140.38 | 3,689.9 | -201.1 | 166.4 | 260.9 | 0.00 | 0.00 | |
| 3,800.0 | 4.48 | 140.38 | 3,789.6 | -207.1 | 171.4 | 268.7 | 0.00 | 0.00 | |
| 3,900.0 | 4.48 | 140.38 | 3,889.3 | -213.1 | 176.4 | 276.5 | 0.00 | 0.00 | |
| 4,000.0 | 4.48 | 140.38 | 3,989.0 | -219.1 | 181.4 | 284.3 | 0.00 | 0.00 | |
| 4,100.0 | 4.48 | 140.38 | 4,088.7 | -225.2 | 186.4 | 292.1 | 0.00 | 0.00 | |
| 4,200.0 | 4.48 | 140.38 | 4,188.4 | -231.2 | 191.3 | 299.9 | 0.00 | 0.00 | |
| 4,300.0 | 4.48 | 140.38 | 4,288.1 | -237.2 | 196.3 | 307.7 | 0.00 | 0.00 | |
| 4,400.0 | 4.48 | 140.38 | 4,387.8 | -243.2 | 201.3 | 315.6 | 0.00 | 0.00 | |

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| Well: | 8511A-34 E34 496 | 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 |
| 4,500.0 | 4.48 | 140.38 | 4,487.4 | -249.2 | 206.3 | 323.4 | 0.00 | 0.00 | |
| 4,600.0 | 4.48 | 140.38 | 4,587.1 | -255.3 | 211.3 | 331.2 | 0.00 | 0.00 | |
| 4,700.0 | 4.48 | 140.38 | 4,686.8 | -261.3 | 216.3 | 339.0 | 0.00 | 0.00 | |
| 4,800.0 | 4.48 | 140.38 | 4,786.5 | -267.3 | 221.3 | 346.8 | 0.00 | 0.00 | |
| 4,900.0 | 4.48 | 140.38 | 4,886.2 | -273.3 | 226.2 | 354.6 | 0.00 | 0.00 | |
| 5,000.0 | 4.48 | 140.38 | 4,985.9 | -279.4 | 231.2 | 362.5 | 0.00 | 0.00 | |
| 5,100.0 | 4.48 | 140.38 | 5,085.6 | -285.4 | 236.2 | 370.3 | 0.00 | 0.00 | |
| 5,200.0 | 4.48 | 140.38 | 5,185.3 | -291.4 | 241.2 | 378.1 | 0.00 | 0.00 | |
| 5,300.0 | 4.48 | 140.38 | 5,285.0 | -297.4 | 246.2 | 385.9 | 0.00 | 0.00 | |
| 5,400.0 | 4.48 | 140.38 | 5,384.7 | -303.5 | 251.2 | 393.7 | 0.00 | 0.00 | |
| 5,464.5 | 4.48 | 140.38 | 5,449.0 | -307.3 | 254.4 | 398.8 | 0.00 | 0.00 | WASATCH_G_TVD |
| 5,500.0 | 4.48 | 140.38 | 5,484.4 | -309.5 | 256.2 | 401.5 | 0.00 | 0.00 | |
| 5,600.0 | 4.48 | 140.38 | 5,584.1 | -315.5 | 261.1 | 409.3 | 0.00 | 0.00 | |
| 5,700.0 | 4.48 | 140.38 | 5,683.8 | -321.5 | 266.1 | 417.2 | 0.00 | 0.00 | |
| 5,800.0 | 4.48 | 140.38 | 5,783.5 | -327.5 | 271.1 | 425.0 | 0.00 | 0.00 | |
| 5,900.0 | 4.48 | 140.38 | 5,883.2 | -333.6 | 276.1 | 432.8 | 0.00 | 0.00 | |
| 6,000.0 | 4.48 | 140.38 | 5,982.9 | -339.6 | 281.1 | 440.6 | 0.00 | 0.00 | |
| 6,100.0 | 4.48 | 140.38 | 6,082.5 | -345.6 | 286.1 | 448.4 | 0.00 | 0.00 | |
| 6,200.0 | 4.48 | 140.38 | 6,182.2 | -351.6 | 291.1 | 456.2 | 0.00 | 0.00 | |
| 6,300.0 | 4.48 | 140.38 | 6,281.9 | -357.7 | 296.0 | 464.0 | 0.00 | 0.00 | |
| 6,400.0 | 4.48 | 140.38 | 6,381.6 | -363.7 | 301.0 | 471.9 | 0.00 | 0.00 | |
| 6,500.0 | 4.48 | 140.38 | 6,481.3 | -369.7 | 306.0 | 479.7 | 0.00 | 0.00 | |
| 6,600.0 | 4.48 | 140.38 | 6,581.0 | -375.7 | 311.0 | 487.5 | 0.00 | 0.00 | |
| 6,700.0 | 4.48 | 140.38 | 6,680.7 | -381.8 | 316.0 | 495.3 | 0.00 | 0.00 | |
| 6,800.0 | 4.48 | 140.38 | 6,780.4 | -387.8 | 321.0 | 503.1 | 0.00 | 0.00 | |
| 6,900.0 | 4.48 | 140.38 | 6,880.1 | -393.8 | 326.0 | 510.9 | 0.00 | 0.00 | |
| 7,000.0 | 4.48 | 140.38 | 6,979.8 | -399.8 | 330.9 | 518.8 | 0.00 | 0.00 | |
| 7,100.0 | 4.48 | 140.38 | 7,079.5 | -405.9 | 335.9 | 526.6 | 0.00 | 0.00 | |
| 7,200.0 | 4.48 | 140.38 | 7,179.2 | -411.9 | 340.9 | 534.4 | 0.00 | 0.00 | |
| 7,300.0 | 4.48 | 140.38 | 7,278.9 | -417.9 | 345.9 | 542.2 | 0.00 | 0.00 | |
| 7,390.4 | 4.48 | 140.38 | 7,369.0 | -423.3 | 350.4 | 549.3 | 0.00 | 0.00 | Start Drop -2.00 |
| 7,400.0 | 4.29 | 140.38 | 7,378.6 | -423.9 | 350.9 | 550.0 | 2.00 | -2.00 | |
| 7,500.0 | 2.29 | 140.38 | 7,478.4 | -428.3 | 354.5 | 555.7 | 2.00 | -2.00 | |
| 7,600.0 | 0.29 | 140.38 | 7,578.4 | -430.1 | 356.0 | 558.0 | 2.00 | -2.00 | |
| 7,614.6 | 0.00 | 0.00 | 7,593.0 | -430.1 | 356.0 | 558.0 | 2.00 | -2.00 | EOD; Inc=0° - WILLIAMS_FORK_TVD - E34 496 |
| 7,659.1 | 0.22 | 236.26 | 7,637.5 | -430.1 | 355.9 | 558.0 | 0.50 | 0.50 | |
| 7,700.0 | 0.22 | 236.26 | 7,678.4 | -430.2 | 355.8 | 558.0 | 0.00 | 0.00 | |
| 7,800.0 | 0.22 | 236.26 | 7,778.4 | -430.5 | 355.5 | 558.0 | 0.00 | 0.00 | |
| 7,900.0 | 0.22 | 236.26 | 7,878.4 | -430.7 | 355.2 | 558.0 | 0.00 | 0.00 | |
| 8,000.0 | 0.22 | 236.26 | 7,978.4 | -430.9 | 354.8 | 557.9 | 0.00 | 0.00 | |
| 8,100.0 | 0.22 | 236.26 | 8,078.4 | -431.1 | 354.5 | 557.9 | 0.00 | 0.00 | |
| 8,200.0 | 0.22 | 236.26 | 8,178.4 | -431.3 | 354.2 | 557.9 | 0.00 | 0.00 | |
| 8,300.0 | 0.22 | 236.26 | 8,278.4 | -431.5 | 353.9 | 557.8 | 0.00 | 0.00 | |
| 8,400.0 | 0.22 | 236.26 | 8,378.4 | -431.7 | 353.5 | 557.8 | 0.00 | 0.00 | |
| 8,500.0 | 0.22 | 236.26 | 8,478.4 | -432.0 | 353.2 | 557.8 | 0.00 | 0.00 | |
| 8,600.0 | 0.22 | 236.26 | 8,578.4 | -432.2 | 352.9 | 557.8 | 0.00 | 0.00 | |
| 8,700.0 | 0.22 | 236.26 | 8,678.4 | -432.4 | 352.6 | 557.7 | 0.00 | 0.00 | |
| 8,800.0 | 0.22 | 236.26 | 8,778.4 | -432.6 | 352.2 | 557.7 | 0.00 | 0.00 | |
| 8,900.0 | 0.22 | 236.26 | 8,878.4 | -432.8 | 351.9 | 557.7 | 0.00 | 0.00 | |
| 9,000.0 | 0.22 | 236.26 | 8,978.4 | -433.0 | 351.6 | 557.7 | 0.00 | 0.00 | |
| 9,100.0 | 0.22 | 236.26 | 9,078.4 | -433.3 | 351.3 | 557.6 | 0.00 | 0.00 | |
| 9,200.0 | 0.22 | 236.26 | 9,178.4 | -433.5 | 351.0 | 557.6 | 0.00 | 0.00 | |

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| Project: | Story Gulch | MD Reference: | WELL @ 8324.0ft (Original Well Elev) |
| Site: | S33-T4S-R96W (E34 496) | North Reference: | True |
| Well: | 8511A-34 E34 496 | 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 |
| 9,300.0 | 0.22 | 236.26 | 9,278.4 | -433.7 | 350.6 | 557.6 | 0.00 | 0.00 | |
| 9,400.0 | 0.22 | 236.26 | 9,378.4 | -433.9 | 350.3 | 557.5 | 0.00 | 0.00 | |
| 9,500.0 | 0.22 | 236.26 | 9,478.4 | -434.1 | 350.0 | 557.5 | 0.00 | 0.00 | |
| 9,600.0 | 0.22 | 236.26 | 9,578.4 | -434.3 | 349.7 | 557.5 | 0.00 | 0.00 | |
| 9,700.0 | 0.22 | 236.26 | 9,678.4 | -434.6 | 349.3 | 557.5 | 0.00 | 0.00 | |
| 9,800.0 | 0.22 | 236.26 | 9,778.4 | -434.8 | 349.0 | 557.4 | 0.00 | 0.00 | |
| 9,900.0 | 0.22 | 236.26 | 9,878.4 | -435.0 | 348.7 | 557.4 | 0.00 | 0.00 | |
| 10,000.0 | 0.22 | 236.26 | 9,978.4 | -435.2 | 348.4 | 557.4 | 0.00 | 0.00 | |
| 10,100.0 | 0.22 | 236.26 | 10,078.3 | -435.4 | 348.0 | 557.4 | 0.00 | 0.00 | |
| 10,200.0 | 0.22 | 236.26 | 10,178.3 | -435.6 | 347.7 | 557.3 | 0.00 | 0.00 | |
| 10,300.0 | 0.22 | 236.26 | 10,278.3 | -435.8 | 347.4 | 557.3 | 0.00 | 0.00 | |
| 10,400.0 | 0.22 | 236.26 | 10,378.3 | -436.1 | 347.1 | 557.3 | 0.00 | 0.00 | |
| 10,500.0 | 0.22 | 236.26 | 10,478.3 | -436.3 | 346.8 | 557.2 | 0.00 | 0.00 | |
| 10,600.0 | 0.22 | 236.26 | 10,578.3 | -436.5 | 346.4 | 557.2 | 0.00 | 0.00 | |
| 10,700.0 | 0.22 | 236.26 | 10,678.3 | -436.7 | 346.1 | 557.2 | 0.00 | 0.00 | |
| 10,800.0 | 0.22 | 236.26 | 10,778.3 | -436.9 | 345.8 | 557.2 | 0.00 | 0.00 | |
| 10,886.7 | 0.22 | 236.26 | 10,865.0 | -437.1 | 345.5 | 557.1 | 0.00 | 0.00 | CAMEO_TVD |
| 10,900.0 | 0.22 | 236.26 | 10,878.3 | -437.1 | 345.5 | 557.1 | 0.00 | 0.00 | |
| 11,000.0 | 0.22 | 236.26 | 10,978.3 | -437.4 | 345.1 | 557.1 | 0.00 | 0.00 | |
| 11,100.0 | 0.22 | 236.26 | 11,078.3 | -437.6 | 344.8 | 557.1 | 0.00 | 0.00 | |
| 11,200.0 | 0.22 | 236.26 | 11,178.3 | -437.8 | 344.5 | 557.1 | 0.00 | 0.00 | |
| 11,260.7 | 0.22 | 236.26 | 11,239.0 | -437.9 | 344.3 | 557.0 | 0.00 | 0.00 | ROLLINS_TVD |
| 11,300.0 | 0.22 | 236.26 | 11,278.3 | -438.0 | 344.2 | 557.0 | 0.00 | 0.00 | |
| 11,400.0 | 0.22 | 236.26 | 11,378.3 | -438.2 | 343.8 | 557.0 | 0.00 | 0.00 | |
| 11,495.7 | 0.22 | 236.26 | 11,474.0 | -438.4 | 343.5 | 557.0 | 0.00 | 0.00 | COZZETTE_TVD |
| 11,500.0 | 0.22 | 236.26 | 11,478.3 | -438.4 | 343.5 | 557.0 | 0.00 | 0.00 | |
| 11,600.0 | 0.22 | 236.26 | 11,578.3 | -438.6 | 343.2 | 556.9 | 0.00 | 0.00 | |
| 11,682.7 | 0.22 | 236.26 | 11,661.0 | -438.8 | 342.9 | 556.9 | 0.00 | 0.00 | CORCORAN_TVD |
| 11,700.0 | 0.22 | 236.26 | 11,678.3 | -438.9 | 342.9 | 556.9 | 0.00 | 0.00 | |
| 11,800.0 | 0.22 | 236.26 | 11,778.3 | -439.1 | 342.6 | 556.9 | 0.00 | 0.00 | |
| 11,900.0 | 0.22 | 236.26 | 11,878.3 | -439.3 | 342.2 | 556.9 | 0.00 | 0.00 | |
| 11,984.7 | 0.22 | 236.26 | 11,963.0 | -439.5 | 342.0 | 556.8 | 0.00 | 0.00 | UPPER_SEGO_TVD |
| 12,000.0 | 0.22 | 236.26 | 11,978.3 | -439.5 | 341.9 | 556.8 | 0.00 | 0.00 | |
| 12,100.0 | 0.22 | 236.26 | 12,078.3 | -439.7 | 341.6 | 556.8 | 0.00 | 0.00 | |
| 12,134.7 | 0.22 | 236.26 | 12,113.0 | -439.8 | 341.5 | 556.8 | 0.00 | 0.00 | SEGO_BASE_TARGET_TVD |
| 12,200.0 | 0.22 | 236.26 | 12,178.3 | -439.9 | 341.3 | 556.8 | 0.00 | 0.00 | |
| 12,284.7 | 0.22 | 236.26 | 12,263.0 | -440.1 | 341.0 | 556.8 | 0.00 | 0.00 | Drillers TD @ 12,284' MD - E34 496 8511A-34 I |
| 12,300.0 | 0.22 | 236.26 | 12,278.3 | -440.2 | 340.9 | 556.8 | 0.00 | 0.00 | |
| 12,400.0 | 0.22 | 236.26 | 12,378.3 | -440.4 | 340.6 | 556.7 | 0.00 | 0.00 | |
| 12,434.7 | 0.22 | 236.26 | 12,413.0 | -440.5 | 340.5 | 556.7 | 0.00 | 0.00 | Permit TD @ 12,434' MD |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well 8511A-34 E34 496 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 8324.0ft (Original Well Elev) |
| Project: | Story Gulch | MD Reference: | WELL @ 8324.0ft (Original Well Elev) |
| Site: | S33-T4S-R96W (E34 496) | North Reference: | True |
| Well: | 8511A-34 E34 496 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

| Targets | | | | | | | | | |
|--------------------------------------|-----------|----------|----------|--------|-------|--------------|--------------|------------------|------------------|
| Target Name | | | | | | | | | |
| - hit/miss target | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - Shape | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| E34 496 8511A-34 PBHI | 0.00 | 0.00 | 12,263.0 | -440.1 | 341.0 | 1,675,757.66 | 2,251,368.20 | 39° 39' 31.180 N | 108° 9' 33.760 W |
| - plan hits target center | | | | | | | | | |
| - Rectangle (sides W30.0 H50.0 D0.0) | | | | | | | | | |
| E34 496 8511A-34 TGT | 0.00 | 0.00 | 7,593.0 | -430.1 | 356.0 | 1,675,767.24 | 2,251,383.50 | 39° 39' 31.279 N | 108° 9' 33.568 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Formations | | | | | | |
|----------------|----------------|----------------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction | |
| (ft) | (ft) | | | (°) | (°) | |
| 1,191.4 | 1,189.0 | A_GROOVE_TVD | | | | |
| 1,345.9 | 1,343.0 | B_GROOVE_TVD | | | | |
| 1,368.0 | 1,365.0 | B_GROOVE_BASE_TVD | | | | |
| 2,293.8 | 2,288.0 | GARDEN_GULCH_TVD | | | | |
| 3,335.0 | 3,326.0 | WASATCH_FM_TVD | | | | |
| 5,464.5 | 5,449.0 | WASATCH_G_TVD | | | | |
| 7,614.6 | 7,593.0 | WILLIAMS_FORK_TVD | | | | |
| 10,886.7 | 10,865.0 | CAMEO_TVD | | | | |
| 11,260.7 | 11,239.0 | ROLLINS_TVD | | | | |
| 11,495.7 | 11,474.0 | COZZETTE_TVD | | | | |
| 11,682.7 | 11,661.0 | CORCORAN_TVD | | | | |
| 11,984.7 | 11,963.0 | UPPER_SEGO_TVD | | | | |
| 12,134.7 | 12,113.0 | SEGO_BASE_TARGET_TVD | | | | |

| Plan Annotations | | | | |
|------------------|----------------|-------------------|------------|--------------------------|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment |
| (ft) | (ft) | +N/-S (ft) | +E/-W (ft) | |
| 250.0 | 250.0 | 0.0 | 0.0 | KOP @ 250' |
| 474.2 | 474.0 | -6.8 | 5.6 | EOB; Inc=4.48° |
| 7,390.4 | 7,369.0 | -423.3 | 350.4 | Start Drop -2.00 |
| 7,614.6 | 7,593.0 | -430.1 | 356.0 | EOD; Inc=0° |
| 12,284.7 | 12,263.0 | -430.1 | 355.9 | Drillers TD @ 12,284' MD |
| 12,434.7 | 12,413.0 | -440.1 | 341.0 | Permit TD @ 12,434' MD |