



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well UWF15B-05 K04 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KB @ 8226.0ft (Original Well Elev) |
| Project: | North Piceance | MD Reference: | KB @ 8226.0ft (Original Well Elev) |
| Site: | K04 Pad | North Reference: | True |
| Well: | UWF15B-05 K04 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | DD | | |
| Design: | Plan #1 | | |

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

| Site | | K04 Pad | | | |
|-----------------------|----------|--------------|-----------------|-------------------|-----------------|
| Site Position: | | Northing: | 1,636,938.27 ft | Latitude: | 39° 33' 11.18 N |
| From: | Lat/Long | Easting: | 2,263,572.45 ft | Longitude: | 108° 6' 43.51 W |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | -1.65 ° |

| | | | | | | |
|----------------------|---------------|--------|---------------------|-----------------|---------------|------------------|
| Well | UWF15B-05 K04 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,670,232.26 ft | Latitude: | 39° 38' 35.26 N |
| | +E/-W | 0.0 ft | Easting: | 2,246,764.43 ft | Longitude: | 108° 10' 30.52 W |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 8,193.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | DD | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 4/12/2012 | 10.34 | 65.80 | 52,205 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| 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 | 250.00 |

| 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 | |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,736.0 | 40.08 | 250.09 | 1,629.7 | -152.8 | -421.7 | 3.00 | 3.00 | 0.00 | 250.09 | |
| 6,926.7 | 40.08 | 250.09 | 5,601.3 | -1,290.9 | -3,564.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,262.7 | 0.00 | 358.31 | 6,831.0 | -1,443.7 | -3,985.7 | 3.00 | -3.00 | 0.00 | 180.00 | UWF15B-05 K04 TOC |
| 9,997.7 | 0.39 | 236.34 | 8,566.0 | -1,447.0 | -3,990.6 | 0.02 | 0.02 | -7.03 | 236.34 | |
| 11,755.7 | 0.39 | 236.34 | 10,324.0 | -1,453.7 | -4,000.7 | 0.00 | 0.00 | 0.00 | 0.00 | UWF15B-05 K04 BHL |
| 13,000.0 | 0.39 | 236.34 | 11,568.2 | -1,458.4 | -4,007.8 | 0.00 | 0.00 | 0.00 | 0.00 | |

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| Project: | North Piceance | MD Reference: | KB @ 8226.0ft (Original Well Elev) |
| Site: | K04 Pad | North Reference: | True |
| Well: | UWF15B-05 K04 | 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 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 400' MD |
| 500.0 | 3.00 | 250.09 | 500.0 | -0.9 | -2.5 | 2.6 | 3.00 | 3.00 | |
| 600.0 | 6.00 | 250.09 | 599.6 | -3.6 | -9.8 | 10.5 | 3.00 | 3.00 | |
| 700.0 | 9.00 | 250.09 | 698.8 | -8.0 | -22.1 | 23.5 | 3.00 | 3.00 | |
| 800.0 | 12.00 | 250.09 | 797.1 | -14.2 | -39.2 | 41.7 | 3.00 | 3.00 | |
| 900.0 | 15.00 | 250.09 | 894.3 | -22.2 | -61.2 | 65.1 | 3.00 | 3.00 | |
| 951.6 | 16.55 | 250.09 | 944.0 | -26.9 | -74.4 | 79.1 | 3.00 | 3.00 | A_GROOVE_TVD |
| 1,000.0 | 18.00 | 250.09 | 990.2 | -31.8 | -87.9 | 93.5 | 3.00 | 3.00 | |
| 1,100.0 | 21.00 | 250.09 | 1,084.4 | -43.2 | -119.3 | 126.9 | 3.00 | 3.00 | |
| 1,114.6 | 21.44 | 250.09 | 1,098.0 | -45.0 | -124.2 | 132.1 | 3.00 | 3.00 | B_GROOVE_TVD |
| 1,157.7 | 22.73 | 250.09 | 1,138.0 | -50.5 | -139.5 | 148.3 | 3.00 | 3.00 | B_GROOVE_BASE_TVD |
| 1,200.0 | 24.00 | 250.09 | 1,176.8 | -56.2 | -155.2 | 165.1 | 3.00 | 3.00 | |
| 1,300.0 | 27.00 | 250.09 | 1,267.1 | -70.9 | -195.7 | 208.2 | 3.00 | 3.00 | |
| 1,400.0 | 30.00 | 250.09 | 1,354.9 | -87.1 | -240.6 | 255.9 | 3.00 | 3.00 | |
| 1,500.0 | 33.00 | 250.09 | 1,440.2 | -104.9 | -289.7 | 308.1 | 3.00 | 3.00 | |
| 1,600.0 | 36.00 | 250.09 | 1,522.6 | -124.2 | -342.9 | 364.8 | 3.00 | 3.00 | |
| 1,700.0 | 39.00 | 250.09 | 1,601.9 | -145.0 | -400.2 | 425.6 | 3.00 | 3.00 | |
| 1,736.0 | 40.08 | 250.09 | 1,629.7 | -152.8 | -421.7 | 448.5 | 3.00 | 3.00 | EOB @ 1736' MD; Inc=40.08° |
| 1,800.0 | 40.08 | 250.09 | 1,678.6 | -166.8 | -460.5 | 489.7 | 0.00 | 0.00 | |
| 1,900.0 | 40.08 | 250.09 | 1,755.2 | -188.7 | -521.0 | 554.1 | 0.00 | 0.00 | |
| 2,000.0 | 40.08 | 250.09 | 1,831.7 | -210.6 | -581.5 | 618.5 | 0.00 | 0.00 | |
| 2,071.0 | 40.08 | 250.09 | 1,886.0 | -226.2 | -624.5 | 664.2 | 0.00 | 0.00 | GARDEN_GULCH_TVD |
| 2,100.0 | 40.08 | 250.09 | 1,908.2 | -232.6 | -642.1 | 682.9 | 0.00 | 0.00 | |
| 2,200.0 | 40.08 | 250.09 | 1,984.7 | -254.5 | -702.6 | 747.3 | 0.00 | 0.00 | |
| 2,300.0 | 40.08 | 250.09 | 2,061.2 | -276.4 | -763.1 | 811.7 | 0.00 | 0.00 | |
| 2,400.0 | 40.08 | 250.09 | 2,137.7 | -298.4 | -823.7 | 876.1 | 0.00 | 0.00 | |
| 2,500.0 | 40.08 | 250.09 | 2,214.2 | -320.3 | -884.2 | 940.4 | 0.00 | 0.00 | |
| 2,600.0 | 40.08 | 250.09 | 2,290.8 | -342.2 | -944.8 | 1,004.8 | 0.00 | 0.00 | |
| 2,700.0 | 40.08 | 250.09 | 2,367.3 | -364.1 | -1,005.3 | 1,069.2 | 0.00 | 0.00 | |
| 2,800.0 | 40.08 | 250.09 | 2,443.8 | -386.1 | -1,065.8 | 1,133.6 | 0.00 | 0.00 | |
| 2,900.0 | 40.08 | 250.09 | 2,520.3 | -408.0 | -1,126.4 | 1,198.0 | 0.00 | 0.00 | |
| 3,000.0 | 40.08 | 250.09 | 2,596.8 | -429.9 | -1,186.9 | 1,262.4 | 0.00 | 0.00 | |
| 3,100.0 | 40.08 | 250.09 | 2,673.3 | -451.8 | -1,247.4 | 1,326.8 | 0.00 | 0.00 | |
| 3,200.0 | 40.08 | 250.09 | 2,749.9 | -473.8 | -1,308.0 | 1,391.1 | 0.00 | 0.00 | |
| 3,300.0 | 40.08 | 250.09 | 2,826.4 | -495.7 | -1,368.5 | 1,455.5 | 0.00 | 0.00 | |
| 3,400.0 | 40.08 | 250.09 | 2,902.9 | -517.6 | -1,429.0 | 1,519.9 | 0.00 | 0.00 | |
| 3,439.4 | 40.08 | 250.09 | 2,933.0 | -526.3 | -1,452.9 | 1,545.2 | 0.00 | 0.00 | WASATCH_FM_TVD |
| 3,500.0 | 40.08 | 250.09 | 2,979.4 | -539.6 | -1,489.6 | 1,584.3 | 0.00 | 0.00 | |
| 3,600.0 | 40.08 | 250.09 | 3,055.9 | -561.5 | -1,550.1 | 1,648.7 | 0.00 | 0.00 | |
| 3,700.0 | 40.08 | 250.09 | 3,132.4 | -583.4 | -1,610.7 | 1,713.1 | 0.00 | 0.00 | |
| 3,800.0 | 40.08 | 250.09 | 3,208.9 | -605.3 | -1,671.2 | 1,777.4 | 0.00 | 0.00 | |
| 3,900.0 | 40.08 | 250.09 | 3,285.5 | -627.3 | -1,731.7 | 1,841.8 | 0.00 | 0.00 | |
| 4,000.0 | 40.08 | 250.09 | 3,362.0 | -649.2 | -1,792.3 | 1,906.2 | 0.00 | 0.00 | |
| 4,100.0 | 40.08 | 250.09 | 3,438.5 | -671.1 | -1,852.8 | 1,970.6 | 0.00 | 0.00 | |
| 4,200.0 | 40.08 | 250.09 | 3,515.0 | -693.0 | -1,913.3 | 2,035.0 | 0.00 | 0.00 | |
| 4,300.0 | 40.08 | 250.09 | 3,591.5 | -715.0 | -1,973.9 | 2,099.4 | 0.00 | 0.00 | |
| 4,400.0 | 40.08 | 250.09 | 3,668.0 | -736.9 | -2,034.4 | 2,163.8 | 0.00 | 0.00 | |
| 4,500.0 | 40.08 | 250.09 | 3,744.5 | -758.8 | -2,094.9 | 2,228.1 | 0.00 | 0.00 | |

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| Site: | K04 Pad | North Reference: | True |
| Well: | UWF15B-05 K04 | 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 |
| 4,600.0 | 40.08 | 250.09 | 3,821.1 | -780.8 | -2,155.5 | 2,292.5 | 0.00 | 0.00 | |
| 4,700.0 | 40.08 | 250.09 | 3,897.6 | -802.7 | -2,216.0 | 2,356.9 | 0.00 | 0.00 | |
| 4,800.0 | 40.08 | 250.09 | 3,974.1 | -824.6 | -2,276.6 | 2,421.3 | 0.00 | 0.00 | |
| 4,900.0 | 40.08 | 250.09 | 4,050.6 | -846.5 | -2,337.1 | 2,485.7 | 0.00 | 0.00 | |
| 5,000.0 | 40.08 | 250.09 | 4,127.1 | -868.5 | -2,397.6 | 2,550.1 | 0.00 | 0.00 | |
| 5,100.0 | 40.08 | 250.09 | 4,203.6 | -890.4 | -2,458.2 | 2,614.5 | 0.00 | 0.00 | |
| 5,200.0 | 40.08 | 250.09 | 4,280.2 | -912.3 | -2,518.7 | 2,678.8 | 0.00 | 0.00 | |
| 5,300.0 | 40.08 | 250.09 | 4,356.7 | -934.3 | -2,579.2 | 2,743.2 | 0.00 | 0.00 | |
| 5,400.0 | 40.08 | 250.09 | 4,433.2 | -956.2 | -2,639.8 | 2,807.6 | 0.00 | 0.00 | |
| 5,500.0 | 40.08 | 250.09 | 4,509.7 | -978.1 | -2,700.3 | 2,872.0 | 0.00 | 0.00 | |
| 5,600.0 | 40.08 | 250.09 | 4,586.2 | -1,000.0 | -2,760.8 | 2,936.4 | 0.00 | 0.00 | |
| 5,700.0 | 40.08 | 250.09 | 4,662.7 | -1,022.0 | -2,821.4 | 3,000.8 | 0.00 | 0.00 | |
| 5,800.0 | 40.08 | 250.09 | 4,739.2 | -1,043.9 | -2,881.9 | 3,065.2 | 0.00 | 0.00 | |
| 5,900.0 | 40.08 | 250.09 | 4,815.8 | -1,065.8 | -2,942.5 | 3,129.5 | 0.00 | 0.00 | |
| 6,000.0 | 40.08 | 250.09 | 4,892.3 | -1,087.7 | -3,003.0 | 3,193.9 | 0.00 | 0.00 | |
| 6,040.2 | 40.08 | 250.09 | 4,923.0 | -1,096.6 | -3,027.3 | 3,219.8 | 0.00 | 0.00 | WASATCH_G_TVD |
| 6,100.0 | 40.08 | 250.09 | 4,968.8 | -1,109.7 | -3,063.5 | 3,258.3 | 0.00 | 0.00 | |
| 6,200.0 | 40.08 | 250.09 | 5,045.3 | -1,131.6 | -3,124.1 | 3,322.7 | 0.00 | 0.00 | |
| 6,300.0 | 40.08 | 250.09 | 5,121.8 | -1,153.5 | -3,184.6 | 3,387.1 | 0.00 | 0.00 | |
| 6,400.0 | 40.08 | 250.09 | 5,198.3 | -1,175.5 | -3,245.1 | 3,451.5 | 0.00 | 0.00 | |
| 6,500.0 | 40.08 | 250.09 | 5,274.8 | -1,197.4 | -3,305.7 | 3,515.8 | 0.00 | 0.00 | |
| 6,600.0 | 40.08 | 250.09 | 5,351.4 | -1,219.3 | -3,366.2 | 3,580.2 | 0.00 | 0.00 | |
| 6,700.0 | 40.08 | 250.09 | 5,427.9 | -1,241.2 | -3,426.7 | 3,644.6 | 0.00 | 0.00 | |
| 6,800.0 | 40.08 | 250.09 | 5,504.4 | -1,263.2 | -3,487.3 | 3,709.0 | 0.00 | 0.00 | |
| 6,900.0 | 40.08 | 250.09 | 5,580.9 | -1,285.1 | -3,547.8 | 3,773.4 | 0.00 | 0.00 | |
| 6,926.7 | 40.08 | 250.09 | 5,601.3 | -1,290.9 | -3,564.0 | 3,790.6 | 0.00 | 0.00 | Start 3° Drop @ 6926.7' MD |
| 7,000.0 | 37.88 | 250.09 | 5,658.3 | -1,306.6 | -3,607.3 | 3,836.7 | 3.00 | -3.00 | |
| 7,100.0 | 34.88 | 250.09 | 5,738.8 | -1,326.8 | -3,663.1 | 3,896.0 | 3.00 | -3.00 | |
| 7,200.0 | 31.88 | 250.09 | 5,822.3 | -1,345.6 | -3,714.8 | 3,951.0 | 3.00 | -3.00 | |
| 7,300.0 | 28.88 | 250.09 | 5,908.6 | -1,362.8 | -3,762.4 | 4,001.6 | 3.00 | -3.00 | |
| 7,400.0 | 25.88 | 250.09 | 5,997.4 | -1,378.5 | -3,805.6 | 4,047.6 | 3.00 | -3.00 | |
| 7,500.0 | 22.88 | 250.09 | 6,088.4 | -1,392.5 | -3,844.4 | 4,088.8 | 3.00 | -3.00 | |
| 7,600.0 | 19.88 | 250.09 | 6,181.5 | -1,404.9 | -3,878.7 | 4,125.3 | 3.00 | -3.00 | |
| 7,700.0 | 16.88 | 250.09 | 6,276.4 | -1,415.7 | -3,908.3 | 4,156.8 | 3.00 | -3.00 | |
| 7,800.0 | 13.88 | 250.09 | 6,372.8 | -1,424.7 | -3,933.3 | 4,183.3 | 3.00 | -3.00 | |
| 7,900.0 | 10.88 | 250.09 | 6,470.5 | -1,432.0 | -3,953.4 | 4,204.8 | 3.00 | -3.00 | |
| 8,000.0 | 7.88 | 250.09 | 6,569.1 | -1,437.6 | -3,968.7 | 4,221.1 | 3.00 | -3.00 | |
| 8,100.0 | 4.88 | 250.09 | 6,668.5 | -1,441.3 | -3,979.2 | 4,232.2 | 3.00 | -3.00 | |
| 8,200.0 | 1.88 | 250.09 | 6,768.3 | -1,443.3 | -3,984.7 | 4,238.1 | 3.00 | -3.00 | |
| 8,262.7 | 0.00 | 358.31 | 6,831.0 | -1,443.7 | -3,985.7 | 4,239.1 | 3.00 | -3.00 | EOD @ 8262.7' MD - WILLIAMS_FORK_TVD - |
| 8,300.0 | 0.01 | 236.34 | 6,868.3 | -1,443.7 | -3,985.7 | 4,239.1 | 0.02 | 0.02 | |
| 8,400.0 | 0.03 | 236.34 | 6,968.3 | -1,443.7 | -3,985.7 | 4,239.1 | 0.02 | 0.02 | |
| 8,500.0 | 0.05 | 236.34 | 7,068.3 | -1,443.8 | -3,985.8 | 4,239.2 | 0.02 | 0.02 | |
| 8,600.0 | 0.08 | 236.34 | 7,168.3 | -1,443.8 | -3,985.9 | 4,239.3 | 0.02 | 0.02 | |
| 8,700.0 | 0.10 | 236.34 | 7,268.3 | -1,443.9 | -3,986.0 | 4,239.5 | 0.02 | 0.02 | |
| 8,800.0 | 0.12 | 236.34 | 7,368.3 | -1,444.0 | -3,986.2 | 4,239.7 | 0.02 | 0.02 | |
| 8,900.0 | 0.14 | 236.34 | 7,468.3 | -1,444.1 | -3,986.4 | 4,239.9 | 0.02 | 0.02 | |
| 9,000.0 | 0.17 | 236.34 | 7,568.3 | -1,444.3 | -3,986.6 | 4,240.2 | 0.02 | 0.02 | |
| 9,100.0 | 0.19 | 236.34 | 7,668.3 | -1,444.5 | -3,986.9 | 4,240.5 | 0.02 | 0.02 | |
| 9,200.0 | 0.21 | 236.34 | 7,768.3 | -1,444.7 | -3,987.1 | 4,240.8 | 0.02 | 0.02 | |
| 9,300.0 | 0.23 | 236.34 | 7,868.3 | -1,444.9 | -3,987.5 | 4,241.2 | 0.02 | 0.02 | |
| 9,400.0 | 0.26 | 236.34 | 7,968.3 | -1,445.1 | -3,987.8 | 4,241.6 | 0.02 | 0.02 | |

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| Project: | North Piceance | MD Reference: | KB @ 8226.0ft (Original Well Elev) |
| Site: | K04 Pad | North Reference: | True |
| Well: | UWF15B-05 K04 | 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 |
| 9,500.0 | 0.28 | 236.34 | 8,068.3 | -1,445.4 | -3,988.2 | 4,242.0 | 0.02 | 0.02 | |
| 9,600.0 | 0.30 | 236.34 | 8,168.3 | -1,445.7 | -3,988.6 | 4,242.5 | 0.02 | 0.02 | |
| 9,700.0 | 0.33 | 236.34 | 8,268.3 | -1,446.0 | -3,989.1 | 4,243.1 | 0.02 | 0.02 | |
| 9,800.0 | 0.35 | 236.34 | 8,368.3 | -1,446.3 | -3,989.6 | 4,243.6 | 0.02 | 0.02 | |
| 9,900.0 | 0.37 | 236.34 | 8,468.3 | -1,446.6 | -3,990.1 | 4,244.2 | 0.02 | 0.02 | |
| 9,997.7 | 0.39 | 236.34 | 8,566.0 | -1,447.0 | -3,990.6 | 4,244.9 | 0.02 | 0.02 | |
| 10,000.0 | 0.39 | 236.34 | 8,568.3 | -1,447.0 | -3,990.7 | 4,244.9 | 0.00 | 0.00 | |
| 10,100.0 | 0.39 | 236.34 | 8,668.3 | -1,447.4 | -3,991.2 | 4,245.6 | 0.00 | 0.00 | |
| 10,200.0 | 0.39 | 236.34 | 8,768.3 | -1,447.8 | -3,991.8 | 4,246.2 | 0.00 | 0.00 | |
| 10,300.0 | 0.39 | 236.34 | 8,868.3 | -1,448.1 | -3,992.4 | 4,246.9 | 0.00 | 0.00 | |
| 10,400.0 | 0.39 | 236.34 | 8,968.3 | -1,448.5 | -3,992.9 | 4,247.6 | 0.00 | 0.00 | |
| 10,500.0 | 0.39 | 236.34 | 9,068.3 | -1,448.9 | -3,993.5 | 4,248.2 | 0.00 | 0.00 | |
| 10,600.0 | 0.39 | 236.34 | 9,168.3 | -1,449.3 | -3,994.1 | 4,248.9 | 0.00 | 0.00 | |
| 10,700.0 | 0.39 | 236.34 | 9,268.3 | -1,449.7 | -3,994.7 | 4,249.6 | 0.00 | 0.00 | |
| 10,800.0 | 0.39 | 236.34 | 9,368.3 | -1,450.0 | -3,995.2 | 4,250.2 | 0.00 | 0.00 | |
| 10,900.0 | 0.39 | 236.34 | 9,468.3 | -1,450.4 | -3,995.8 | 4,250.9 | 0.00 | 0.00 | |
| 11,000.0 | 0.39 | 236.34 | 9,568.3 | -1,450.8 | -3,996.4 | 4,251.6 | 0.00 | 0.00 | |
| 11,100.0 | 0.39 | 236.34 | 9,668.3 | -1,451.2 | -3,996.9 | 4,252.2 | 0.00 | 0.00 | |
| 11,200.0 | 0.39 | 236.34 | 9,768.3 | -1,451.6 | -3,997.5 | 4,252.9 | 0.00 | 0.00 | |
| 11,300.0 | 0.39 | 236.34 | 9,868.3 | -1,451.9 | -3,998.1 | 4,253.6 | 0.00 | 0.00 | |
| 11,400.0 | 0.39 | 236.34 | 9,968.3 | -1,452.3 | -3,998.6 | 4,254.2 | 0.00 | 0.00 | |
| 11,500.0 | 0.39 | 236.34 | 10,068.3 | -1,452.7 | -3,999.2 | 4,254.9 | 0.00 | 0.00 | |
| 11,600.0 | 0.39 | 236.34 | 10,168.3 | -1,453.1 | -3,999.8 | 4,255.5 | 0.00 | 0.00 | |
| 11,700.0 | 0.39 | 236.34 | 10,268.3 | -1,453.5 | -4,000.4 | 4,256.2 | 0.00 | 0.00 | |
| 11,755.7 | 0.39 | 236.34 | 10,324.0 | -1,453.7 | -4,000.7 | 4,256.6 | 0.00 | 0.00 | ROLLINS_TVD - UWF15B-05 K04 BHL |
| 11,800.0 | 0.39 | 236.34 | 10,368.3 | -1,453.8 | -4,000.9 | 4,256.9 | 0.00 | 0.00 | |
| 11,900.0 | 0.39 | 236.34 | 10,468.3 | -1,454.2 | -4,001.5 | 4,257.5 | 0.00 | 0.00 | |
| 11,986.7 | 0.39 | 236.34 | 10,555.0 | -1,454.5 | -4,002.0 | 4,258.1 | 0.00 | 0.00 | COZZETTE_TVD |
| 12,000.0 | 0.39 | 236.34 | 10,568.3 | -1,454.6 | -4,002.1 | 4,258.2 | 0.00 | 0.00 | |
| 12,100.0 | 0.39 | 236.34 | 10,668.3 | -1,455.0 | -4,002.6 | 4,258.9 | 0.00 | 0.00 | |
| 12,161.7 | 0.39 | 236.34 | 10,730.0 | -1,455.2 | -4,003.0 | 4,259.3 | 0.00 | 0.00 | CORCORAN_TVD |
| 12,200.0 | 0.39 | 236.34 | 10,768.3 | -1,455.4 | -4,003.2 | 4,259.5 | 0.00 | 0.00 | |
| 12,300.0 | 0.39 | 236.34 | 10,868.2 | -1,455.7 | -4,003.8 | 4,260.2 | 0.00 | 0.00 | |
| 12,400.0 | 0.39 | 236.34 | 10,968.2 | -1,456.1 | -4,004.3 | 4,260.9 | 0.00 | 0.00 | |
| 12,453.8 | 0.39 | 236.34 | 11,022.0 | -1,456.3 | -4,004.6 | 4,261.2 | 0.00 | 0.00 | UPPER_SEGO_TVD |
| 12,500.0 | 0.39 | 236.34 | 11,068.2 | -1,456.5 | -4,004.9 | 4,261.5 | 0.00 | 0.00 | |
| 12,600.0 | 0.39 | 236.34 | 11,168.2 | -1,456.9 | -4,005.5 | 4,262.2 | 0.00 | 0.00 | |
| 12,700.0 | 0.39 | 236.34 | 11,268.2 | -1,457.3 | -4,006.1 | 4,262.9 | 0.00 | 0.00 | |
| 12,800.0 | 0.39 | 236.34 | 11,368.2 | -1,457.6 | -4,006.6 | 4,263.5 | 0.00 | 0.00 | |
| 12,900.0 | 0.39 | 236.34 | 11,468.2 | -1,458.0 | -4,007.2 | 4,264.2 | 0.00 | 0.00 | |
| 13,000.0 | 0.39 | 236.34 | 11,568.2 | -1,458.4 | -4,007.8 | 4,264.9 | 0.00 | 0.00 | TD @ 13,000' MD |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well UWF15B-05 K04 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | KB @ 8226.0ft (Original Well Elev) |
| Project: | North Piceance | MD Reference: | KB @ 8226.0ft (Original Well Elev) |
| Site: | K04 Pad | North Reference: | True |
| Well: | UWF15B-05 K04 | 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) | | |
| UWF15B-05 K04 BHL | 0.00 | 358.30 | 10,324.0 | -1,453.7 | -4,000.7 | 1,668,897.02 | 2,242,722.70 | 39° 38' 20.89 N | 108° 11' 21.66 W |
| - plan hits target center | | | | | | | | | |
| - Rectangle (sides W30.0 H50.0 D0.0) | | | | | | | | | |
| UWF15B-05 K04 TOG | 0.00 | 358.30 | 6,831.0 | -1,443.7 | -3,985.7 | 1,668,906.54 | 2,242,737.95 | 39° 38' 20.99 N | 108° 11' 21.47 W |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

| Formations | | | | | | |
|----------------|----------------|-------------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction | |
| (ft) | (ft) | | | (°) | (°) | |
| 951.6 | 944.0 | A_GROOVE_TVD | | | | |
| 1,114.6 | 1,098.0 | B_GROOVE_TVD | | | | |
| 1,157.7 | 1,138.0 | B_GROOVE_BASE_TVD | | | | |
| 2,071.0 | 1,886.0 | GARDEN_GULCH_TVD | | | | |
| 3,439.4 | 2,933.0 | WASATCH_FM_TVD | | | | |
| 6,040.2 | 4,923.0 | WASATCH_G_TVD | | | | |
| 8,262.7 | 6,831.0 | WILLIAMS_FORK_TVD | | | | |
| 11,755.7 | 10,324.0 | ROLLINS_TVD | | | | |
| 11,986.7 | 10,555.0 | COZZETTE_TVD | | | | |
| 12,161.7 | 10,730.0 | CORCORAN_TVD | | | | |
| 12,453.8 | 11,022.0 | UPPER_SEGO_TVD | | | | |

| Plan Annotations | | | | |
|------------------|----------------|-------------------|------------|----------------------------|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment |
| (ft) | (ft) | +N/-S (ft) | +E/-W (ft) | |
| 400.0 | 400.0 | 0.0 | 0.0 | KOP @ 400' MD |
| 1,736.0 | 1,629.7 | -152.8 | -421.7 | EOB @ 1736' MD; Inc=40.08° |
| 6,926.7 | 5,601.3 | -1,290.9 | -3,564.0 | Start 3° Drop @ 6926.7' MD |
| 8,262.7 | 6,831.0 | -1,443.7 | -3,985.7 | EOD @ 8262.7' MD |
| 13,000.0 | 11,568.2 | -1,458.4 | -4,007.8 | TD @ 13,000' MD |