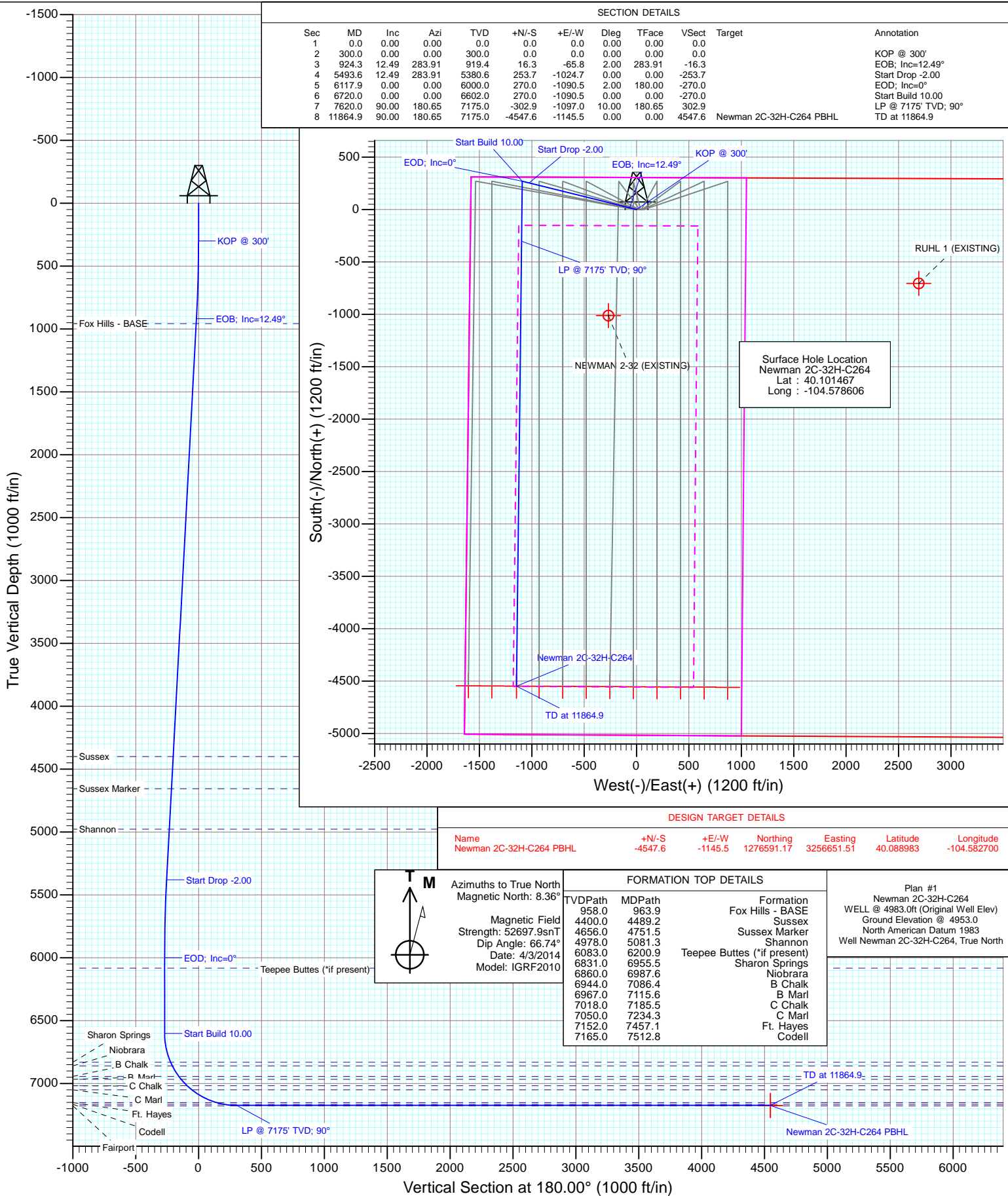




Project: DJ Wattenberg
Site: S32-T2N-R64W (Newman)
Well: Newman 2C-32H-C264
Wellbore: HZ
Design: Plan #1



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site: | S32-T2N-R64W (Newman) | North Reference: | True |
| Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| Design: | Plan #1 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| Project | DJ Wattenberg | | |
| Map System: | US State Plane 1983 | System Datum: | Mean Sea Level |
| Geo Datum: | North American Datum 1983 | | |
| Map Zone: | Colorado Northern Zone | | |

| Site | | S32-T2N-R64W (Newman) | | | |
|-----------------------|----------|-----------------------|-----------------|-------------------|-------------|
| Site Position: | | Northing: | 1,281,150.66 ft | Latitude: | 40.101468 |
| From: | Lat/Long | Easting: | 3,257,734.55 ft | Longitude: | -104.578660 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.60 ° |

| | | | | | | |
|----------------------|--------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Newman 2C-32H-C264 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,281,150.44 ft | Latitude: | 40.101467 |
| | +E/-W | 0.0 ft | Easting: | 3,257,749.65 ft | Longitude: | -104.578606 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,953.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | HZ | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 4/3/2014 | 8.36 | 66.74 | 52,698 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| 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 | 180.00 | |

| 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 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 924.3 | 12.49 | 283.91 | 919.4 | 16.3 | -65.8 | 2.00 | 2.00 | 0.00 | 283.91 | |
| 5,493.6 | 12.49 | 283.91 | 5,380.6 | 253.7 | -1,024.7 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,117.9 | 0.00 | 0.00 | 6,000.0 | 270.0 | -1,090.5 | 2.00 | -2.00 | 0.00 | 180.00 | |
| 6,720.0 | 0.00 | 0.00 | 6,602.0 | 270.0 | -1,090.5 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,620.0 | 90.00 | 180.65 | 7,175.0 | -302.9 | -1,097.0 | 10.00 | 10.00 | 0.00 | 180.65 | |
| 11,864.9 | 90.00 | 180.65 | 7,175.0 | -4,547.6 | -1,145.5 | 0.00 | 0.00 | 0.00 | 0.00 | Newman 2C-32H-C264 |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site: | S32-T2N-R64W (Newman) | North Reference: | True |
| Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| 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 | KOP @ 300' |
| 400.0 | 2.00 | 283.91 | 400.0 | 0.4 | -1.7 | -0.4 | 2.00 | 2.00 | |
| 500.0 | 4.00 | 283.91 | 499.8 | 1.7 | -6.8 | -1.7 | 2.00 | 2.00 | |
| 600.0 | 6.00 | 283.91 | 599.5 | 3.8 | -15.2 | -3.8 | 2.00 | 2.00 | |
| 700.0 | 8.00 | 283.91 | 698.7 | 6.7 | -27.1 | -6.7 | 2.00 | 2.00 | |
| 800.0 | 10.00 | 283.91 | 797.5 | 10.5 | -42.2 | -10.5 | 2.00 | 2.00 | |
| 900.0 | 12.00 | 283.91 | 895.6 | 15.0 | -60.8 | -15.0 | 2.00 | 2.00 | |
| 924.3 | 12.49 | 283.91 | 919.4 | 16.3 | -65.8 | -16.3 | 2.00 | 2.00 | EOB; Inc=12.49° |
| 963.9 | 12.49 | 283.91 | 958.0 | 18.3 | -74.1 | -18.3 | 0.00 | 0.00 | Fox Hills - BASE |
| 1,000.0 | 12.49 | 283.91 | 993.3 | 20.2 | -81.7 | -20.2 | 0.00 | 0.00 | |
| 1,100.0 | 12.49 | 283.91 | 1,090.9 | 25.4 | -102.6 | -25.4 | 0.00 | 0.00 | |
| 1,200.0 | 12.49 | 283.91 | 1,188.5 | 30.6 | -123.6 | -30.6 | 0.00 | 0.00 | |
| 1,300.0 | 12.49 | 283.91 | 1,286.2 | 35.8 | -144.6 | -35.8 | 0.00 | 0.00 | |
| 1,400.0 | 12.49 | 283.91 | 1,383.8 | 41.0 | -165.6 | -41.0 | 0.00 | 0.00 | |
| 1,500.0 | 12.49 | 283.91 | 1,481.5 | 46.2 | -186.6 | -46.2 | 0.00 | 0.00 | |
| 1,600.0 | 12.49 | 283.91 | 1,579.1 | 51.4 | -207.6 | -51.4 | 0.00 | 0.00 | |
| 1,700.0 | 12.49 | 283.91 | 1,676.7 | 56.6 | -228.6 | -56.6 | 0.00 | 0.00 | |
| 1,800.0 | 12.49 | 283.91 | 1,774.4 | 61.8 | -249.6 | -61.8 | 0.00 | 0.00 | |
| 1,900.0 | 12.49 | 283.91 | 1,872.0 | 67.0 | -270.5 | -67.0 | 0.00 | 0.00 | |
| 2,000.0 | 12.49 | 283.91 | 1,969.6 | 72.2 | -291.5 | -72.2 | 0.00 | 0.00 | |
| 2,100.0 | 12.49 | 283.91 | 2,067.3 | 77.4 | -312.5 | -77.4 | 0.00 | 0.00 | |
| 2,200.0 | 12.49 | 283.91 | 2,164.9 | 82.6 | -333.5 | -82.6 | 0.00 | 0.00 | |
| 2,300.0 | 12.49 | 283.91 | 2,262.5 | 87.8 | -354.5 | -87.8 | 0.00 | 0.00 | |
| 2,400.0 | 12.49 | 283.91 | 2,360.2 | 93.0 | -375.5 | -93.0 | 0.00 | 0.00 | |
| 2,500.0 | 12.49 | 283.91 | 2,457.8 | 98.2 | -396.5 | -98.2 | 0.00 | 0.00 | |
| 2,600.0 | 12.49 | 283.91 | 2,555.4 | 103.4 | -417.4 | -103.4 | 0.00 | 0.00 | |
| 2,700.0 | 12.49 | 283.91 | 2,653.1 | 108.6 | -438.4 | -108.6 | 0.00 | 0.00 | |
| 2,800.0 | 12.49 | 283.91 | 2,750.7 | 113.7 | -459.4 | -113.7 | 0.00 | 0.00 | |
| 2,900.0 | 12.49 | 283.91 | 2,848.3 | 118.9 | -480.4 | -118.9 | 0.00 | 0.00 | |
| 3,000.0 | 12.49 | 283.91 | 2,946.0 | 124.1 | -501.4 | -124.1 | 0.00 | 0.00 | |
| 3,100.0 | 12.49 | 283.91 | 3,043.6 | 129.3 | -522.4 | -129.3 | 0.00 | 0.00 | |
| 3,200.0 | 12.49 | 283.91 | 3,141.2 | 134.5 | -543.4 | -134.5 | 0.00 | 0.00 | |
| 3,300.0 | 12.49 | 283.91 | 3,238.9 | 139.7 | -564.4 | -139.7 | 0.00 | 0.00 | |
| 3,400.0 | 12.49 | 283.91 | 3,336.5 | 144.9 | -585.3 | -144.9 | 0.00 | 0.00 | |
| 3,500.0 | 12.49 | 283.91 | 3,434.1 | 150.1 | -606.3 | -150.1 | 0.00 | 0.00 | |
| 3,600.0 | 12.49 | 283.91 | 3,531.8 | 155.3 | -627.3 | -155.3 | 0.00 | 0.00 | |
| 3,700.0 | 12.49 | 283.91 | 3,629.4 | 160.5 | -648.3 | -160.5 | 0.00 | 0.00 | |
| 3,800.0 | 12.49 | 283.91 | 3,727.1 | 165.7 | -669.3 | -165.7 | 0.00 | 0.00 | |
| 3,900.0 | 12.49 | 283.91 | 3,824.7 | 170.9 | -690.3 | -170.9 | 0.00 | 0.00 | |
| 4,000.0 | 12.49 | 283.91 | 3,922.3 | 176.1 | -711.3 | -176.1 | 0.00 | 0.00 | |
| 4,100.0 | 12.49 | 283.91 | 4,020.0 | 181.3 | -732.3 | -181.3 | 0.00 | 0.00 | |
| 4,200.0 | 12.49 | 283.91 | 4,117.6 | 186.5 | -753.2 | -186.5 | 0.00 | 0.00 | |
| 4,300.0 | 12.49 | 283.91 | 4,215.2 | 191.7 | -774.2 | -191.7 | 0.00 | 0.00 | |
| 4,400.0 | 12.49 | 283.91 | 4,312.9 | 196.9 | -795.2 | -196.9 | 0.00 | 0.00 | |
| 4,489.2 | 12.49 | 283.91 | 4,400.0 | 201.5 | -813.9 | -201.5 | 0.00 | 0.00 | Sussex |
| 4,500.0 | 12.49 | 283.91 | 4,410.5 | 202.1 | -816.2 | -202.1 | 0.00 | 0.00 | |
| 4,600.0 | 12.49 | 283.91 | 4,508.1 | 207.3 | -837.2 | -207.3 | 0.00 | 0.00 | |
| 4,700.0 | 12.49 | 283.91 | 4,605.8 | 212.5 | -858.2 | -212.5 | 0.00 | 0.00 | |
| 4,751.5 | 12.49 | 283.91 | 4,656.0 | 215.2 | -869.0 | -215.2 | 0.00 | 0.00 | Sussex Marker |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site: | S32-T2N-R64W (Newman) | North Reference: | True |
| Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| 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 | 12.49 | 283.91 | 4,703.4 | 217.7 | -879.2 | -217.7 | 0.00 | 0.00 | |
| 4,900.0 | 12.49 | 283.91 | 4,801.0 | 222.9 | -900.1 | -222.9 | 0.00 | 0.00 | |
| 5,000.0 | 12.49 | 283.91 | 4,898.7 | 228.1 | -921.1 | -228.1 | 0.00 | 0.00 | |
| 5,081.3 | 12.49 | 283.91 | 4,978.0 | 232.3 | -938.2 | -232.3 | 0.00 | 0.00 | Shannon |
| 5,100.0 | 12.49 | 283.91 | 4,996.3 | 233.3 | -942.1 | -233.3 | 0.00 | 0.00 | |
| 5,200.0 | 12.49 | 283.91 | 5,093.9 | 238.5 | -963.1 | -238.5 | 0.00 | 0.00 | |
| 5,300.0 | 12.49 | 283.91 | 5,191.6 | 243.7 | -984.1 | -243.7 | 0.00 | 0.00 | |
| 5,400.0 | 12.49 | 283.91 | 5,289.2 | 248.9 | -1,005.1 | -248.9 | 0.00 | 0.00 | |
| 5,493.6 | 12.49 | 283.91 | 5,380.6 | 253.7 | -1,024.7 | -253.7 | 0.00 | 0.00 | Start Drop -2.00 |
| 5,500.0 | 12.36 | 283.91 | 5,386.8 | 254.0 | -1,026.1 | -254.0 | 2.00 | -2.00 | |
| 5,600.0 | 10.36 | 283.91 | 5,484.9 | 258.8 | -1,045.2 | -258.8 | 2.00 | -2.00 | |
| 5,700.0 | 8.36 | 283.91 | 5,583.5 | 262.7 | -1,061.0 | -262.7 | 2.00 | -2.00 | |
| 5,800.0 | 6.36 | 283.91 | 5,682.7 | 265.8 | -1,073.4 | -265.8 | 2.00 | -2.00 | |
| 5,900.0 | 4.36 | 283.91 | 5,782.3 | 268.0 | -1,082.5 | -268.0 | 2.00 | -2.00 | |
| 6,000.0 | 2.36 | 283.91 | 5,882.1 | 269.4 | -1,088.1 | -269.4 | 2.00 | -2.00 | |
| 6,100.0 | 0.36 | 283.91 | 5,982.1 | 270.0 | -1,090.4 | -270.0 | 2.00 | -2.00 | |
| 6,117.9 | 0.00 | 0.00 | 6,000.0 | 270.0 | -1,090.5 | -270.0 | 2.00 | -2.00 | EOD; Inc=0° |
| 6,200.0 | 0.00 | 0.00 | 6,082.1 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | |
| 6,200.9 | 0.00 | 0.00 | 6,083.0 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | Teepee Buttes (*if present) |
| 6,300.0 | 0.00 | 0.00 | 6,182.1 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | |
| 6,400.0 | 0.00 | 0.00 | 6,282.1 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | |
| 6,500.0 | 0.00 | 0.00 | 6,382.1 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | |
| 6,600.0 | 0.00 | 0.00 | 6,482.1 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | |
| 6,700.0 | 0.00 | 0.00 | 6,582.1 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | |
| 6,720.0 | 0.00 | 0.00 | 6,602.0 | 270.0 | -1,090.5 | -270.0 | 0.00 | 0.00 | Start Build 10.00 |
| 6,800.0 | 8.00 | 180.65 | 6,681.8 | 264.4 | -1,090.6 | -264.4 | 10.00 | 10.00 | |
| 6,900.0 | 18.00 | 180.65 | 6,779.1 | 242.0 | -1,090.8 | -242.0 | 10.00 | 10.00 | |
| 6,955.5 | 23.55 | 180.65 | 6,831.0 | 222.3 | -1,091.0 | -222.3 | 10.00 | 10.00 | Sharon Springs |
| 6,987.6 | 26.76 | 180.65 | 6,860.0 | 208.6 | -1,091.2 | -208.6 | 10.00 | 10.00 | Niobrara |
| 7,000.0 | 28.00 | 180.65 | 6,871.1 | 202.9 | -1,091.3 | -202.9 | 10.00 | 10.00 | |
| 7,086.4 | 36.64 | 180.65 | 6,944.0 | 156.8 | -1,091.8 | -156.8 | 10.00 | 10.00 | B Chalk |
| 7,100.0 | 38.00 | 180.65 | 6,954.8 | 148.5 | -1,091.9 | -148.5 | 10.00 | 10.00 | |
| 7,115.6 | 39.57 | 180.65 | 6,967.0 | 138.7 | -1,092.0 | -138.7 | 10.00 | 10.00 | B Marl |
| 7,185.5 | 46.55 | 180.65 | 7,018.0 | 91.1 | -1,092.5 | -91.1 | 10.00 | 10.00 | C Chalk |
| 7,200.0 | 48.00 | 180.65 | 7,027.8 | 80.4 | -1,092.7 | -80.4 | 10.00 | 10.00 | |
| 7,234.3 | 51.43 | 180.65 | 7,050.0 | 54.3 | -1,093.0 | -54.3 | 10.00 | 10.00 | C Marl |
| 7,300.0 | 58.00 | 180.65 | 7,088.0 | 0.7 | -1,093.6 | -0.7 | 10.00 | 10.00 | |
| 7,400.0 | 68.00 | 180.65 | 7,133.3 | -88.3 | -1,094.6 | 88.3 | 10.00 | 10.00 | |
| 7,457.1 | 73.71 | 180.65 | 7,152.0 | -142.2 | -1,095.2 | 142.2 | 10.00 | 10.00 | Ft. Hayes |
| 7,500.0 | 78.00 | 180.65 | 7,162.5 | -183.8 | -1,095.7 | 183.8 | 10.00 | 10.00 | |
| 7,512.8 | 79.28 | 180.65 | 7,165.0 | -196.3 | -1,095.8 | 196.3 | 10.00 | 10.00 | Codell |
| 7,600.0 | 88.00 | 180.65 | 7,174.7 | -282.9 | -1,096.8 | 282.9 | 10.00 | 10.00 | |
| 7,620.0 | 90.00 | 180.65 | 7,175.0 | -302.9 | -1,097.0 | 302.9 | 10.00 | 10.00 | LP @ 7175' TVD; 90° |
| 7,700.0 | 90.00 | 180.65 | 7,175.0 | -382.9 | -1,097.9 | 382.9 | 0.00 | 0.00 | |
| 7,800.0 | 90.00 | 180.65 | 7,175.0 | -482.9 | -1,099.1 | 482.9 | 0.00 | 0.00 | |
| 7,900.0 | 90.00 | 180.65 | 7,175.0 | -582.9 | -1,100.2 | 582.9 | 0.00 | 0.00 | |
| 8,000.0 | 90.00 | 180.65 | 7,175.0 | -682.9 | -1,101.4 | 682.9 | 0.00 | 0.00 | |
| 8,100.0 | 90.00 | 180.65 | 7,175.0 | -782.9 | -1,102.5 | 782.9 | 0.00 | 0.00 | |
| 8,200.0 | 90.00 | 180.65 | 7,175.0 | -882.9 | -1,103.7 | 882.9 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 180.65 | 7,175.0 | -982.9 | -1,104.8 | 982.9 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 180.65 | 7,175.0 | -1,082.9 | -1,105.9 | 1,082.9 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 180.65 | 7,175.0 | -1,182.9 | -1,107.1 | 1,182.9 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site: | S32-T2N-R64W (Newman) | North Reference: | True |
| Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 8,600.0 | 90.00 | 180.65 | 7,175.0 | -1,282.9 | -1,108.2 | 1,282.9 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 180.65 | 7,175.0 | -1,382.9 | -1,109.4 | 1,382.9 | 0.00 | 0.00 | |
| 8,800.0 | 90.00 | 180.65 | 7,175.0 | -1,482.9 | -1,110.5 | 1,482.9 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 180.65 | 7,175.0 | -1,582.9 | -1,111.6 | 1,582.9 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 180.65 | 7,175.0 | -1,682.9 | -1,112.8 | 1,682.9 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 180.65 | 7,175.0 | -1,782.8 | -1,113.9 | 1,782.8 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 180.65 | 7,175.0 | -1,882.8 | -1,115.1 | 1,882.8 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 180.65 | 7,175.0 | -1,982.8 | -1,116.2 | 1,982.8 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 180.65 | 7,175.0 | -2,082.8 | -1,117.3 | 2,082.8 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 180.65 | 7,175.0 | -2,182.8 | -1,118.5 | 2,182.8 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 180.65 | 7,175.0 | -2,282.8 | -1,119.6 | 2,282.8 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 180.65 | 7,175.0 | -2,382.8 | -1,120.8 | 2,382.8 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 180.65 | 7,175.0 | -2,482.8 | -1,121.9 | 2,482.8 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 180.65 | 7,175.0 | -2,582.8 | -1,123.0 | 2,582.8 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 180.65 | 7,175.0 | -2,682.8 | -1,124.2 | 2,682.8 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 180.65 | 7,175.0 | -2,782.8 | -1,125.3 | 2,782.8 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 180.65 | 7,175.0 | -2,882.8 | -1,126.5 | 2,882.8 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 180.65 | 7,175.0 | -2,982.8 | -1,127.6 | 2,982.8 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 180.65 | 7,175.0 | -3,082.8 | -1,128.7 | 3,082.8 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 180.65 | 7,175.0 | -3,182.8 | -1,129.9 | 3,182.8 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 180.65 | 7,175.0 | -3,282.8 | -1,131.0 | 3,282.8 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 180.65 | 7,175.0 | -3,382.7 | -1,132.2 | 3,382.7 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 180.65 | 7,175.0 | -3,482.7 | -1,133.3 | 3,482.7 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 180.65 | 7,175.0 | -3,582.7 | -1,134.4 | 3,582.7 | 0.00 | 0.00 | |
| 11,000.0 | 90.00 | 180.65 | 7,175.0 | -3,682.7 | -1,135.6 | 3,682.7 | 0.00 | 0.00 | |
| 11,100.0 | 90.00 | 180.65 | 7,175.0 | -3,782.7 | -1,136.7 | 3,782.7 | 0.00 | 0.00 | |
| 11,200.0 | 90.00 | 180.65 | 7,175.0 | -3,882.7 | -1,137.9 | 3,882.7 | 0.00 | 0.00 | |
| 11,300.0 | 90.00 | 180.65 | 7,175.0 | -3,982.7 | -1,139.0 | 3,982.7 | 0.00 | 0.00 | |
| 11,400.0 | 90.00 | 180.65 | 7,175.0 | -4,082.7 | -1,140.2 | 4,082.7 | 0.00 | 0.00 | |
| 11,500.0 | 90.00 | 180.65 | 7,175.0 | -4,182.7 | -1,141.3 | 4,182.7 | 0.00 | 0.00 | |
| 11,600.0 | 90.00 | 180.65 | 7,175.0 | -4,282.7 | -1,142.4 | 4,282.7 | 0.00 | 0.00 | |
| 11,700.0 | 90.00 | 180.65 | 7,175.0 | -4,382.7 | -1,143.6 | 4,382.7 | 0.00 | 0.00 | |
| 11,800.0 | 90.00 | 180.65 | 7,175.0 | -4,482.7 | -1,144.7 | 4,482.7 | 0.00 | 0.00 | |
| 11,864.9 | 90.00 | 180.65 | 7,175.0 | -4,547.6 | -1,145.5 | 4,547.6 | 0.00 | 0.00 | TD at 11864.9 |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| Newman 2C-32H-C264 | 0.00 | 0.00 | 7,175.0 | -4,547.6 | -1,145.5 | 1,276,591.17 | 3,256,651.51 | 40.088983 | -104.582700 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site: | S32-T2N-R64W (Newman) | North Reference: | True |
| Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | HZ | | |
| Design: | Plan #1 | | |

| Formations | | | | | | |
|---------------------|---------------------|-----------------------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 963.9 | 958.0 | Fox Hills - BASE | | | | |
| 4,489.2 | 4,400.0 | Sussex | | | | |
| 4,751.5 | 4,656.0 | Sussex Marker | | | | |
| 5,081.3 | 4,978.0 | Shannon | | | | |
| 6,200.9 | 6,083.0 | Teepee Buttes (*if present) | | | | |
| 6,955.5 | 6,831.0 | Sharon Springs | | | | |
| 6,987.6 | 6,860.0 | Niobrara | | | | |
| 7,086.4 | 6,944.0 | B Chalk | | | | |
| 7,115.6 | 6,967.0 | B Marl | | | | |
| 7,185.5 | 7,018.0 | C Chalk | | | | |
| 7,234.3 | 7,050.0 | C Marl | | | | |
| 7,457.1 | 7,152.0 | Ft. Hayes | | | | |
| 7,512.8 | 7,165.0 | Codell | | | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|---------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | | |
| | | +N/-S (ft) | +E/-W (ft) | Comment | |
| 300.0 | 300.0 | 0.0 | 0.0 | KOP @ 300' | |
| 924.3 | 919.4 | 16.3 | -65.8 | EOB; Inc=12.49° | |
| 5,493.6 | 5,380.6 | 253.7 | -1,024.7 | Start Drop -2.00 | |
| 6,117.9 | 6,000.0 | 270.0 | -1,090.5 | EOD; Inc=0° | |
| 6,720.0 | 6,602.0 | 270.0 | -1,090.5 | Start Build 10.00 | |
| 7,620.0 | 7,175.0 | -302.9 | -1,097.0 | LP @ 7175' TVD; 90° | |
| 11,864.9 | 7,175.0 | -4,547.6 | -1,145.5 | TD at 11864.9 | |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S32-T2N-R64W (Newman)

Newman 2C-32H-C264

HZ

Plan #1

Anticollision Report

04 April, 2014

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Reference | Plan #1 | | |
|------------------------------|---|----------------|---------------------|
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,000.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| Survey Tool Program | | Date | 4/4/2014 | | |
|---------------------|----------|-------------------|-------------|-------------|--|
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 11,864.9 | Plan #1 (HZ) | Geolink MWD | Geolink MWD | |

| Summary | | | | | | |
|---|-------------------------------|----------------------------|-------------------------------|--------------------------------|-------------------|--------------|
| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design | | | | | | |
| S32-T2N-R64W (Newman) | | | | | | |
| NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE | 8,319.9 | 7,125.0 | 836.5 | 800.9 | 23.485 | CC, ES |
| NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WE | 8,600.0 | 7,125.0 | 882.2 | 842.3 | 22.123 | SF |
| Newman 2A-32H-C264 - HZ - Plan #1 | 200.0 | 199.0 | 15.1 | 14.5 | 25.538 | CC, ES |
| Newman 2A-32H-C264 - HZ - Plan #1 | 11,865.9 | 11,833.8 | 478.0 | 318.5 | 2.997 | SF |
| Newman 2B-32H-C264 - HZ - Plan #1 | 233.4 | 233.4 | 7.6 | 6.9 | 10.651 | CC, ES |
| Newman 2B-32H-C264 - HZ - Plan #1 | 11,865.9 | 11,708.3 | 322.6 | 199.3 | 2.616 | SF |
| Newman 2D-32H-C264 - HZ - Plan #1 | 300.0 | 300.0 | 7.6 | 6.6 | 8.014 | CC, ES |
| Newman 2D-32H-C264 - HZ - Plan #1 | 11,865.9 | 11,706.9 | 251.4 | 109.0 | 1.765 | SF |
| Newman 2E-32H-C264 - HZ - Plan #1 | 300.0 | 300.0 | 15.1 | 14.2 | 16.028 | CC, ES |
| Newman 2E-32H-C264 - HZ - Plan #1 | 11,865.9 | 11,585.6 | 492.5 | 344.2 | 3.321 | SF |
| Newman 2F-32H-C264 - HZ - Plan #1 | 300.0 | 301.0 | 22.4 | 21.4 | 23.701 | CC, ES |
| Newman 2F-32H-C264 - HZ - Plan #1 | 11,865.9 | 11,780.4 | 665.1 | 499.9 | 4.027 | SF |
| Newman 2G-32H-C264 - HZ - Plan #1 | 300.0 | 301.0 | 29.9 | 29.0 | 31.700 | CC, ES |
| Newman 2G-32H-C264 - HZ - Plan #1 | 11,865.9 | 11,633.9 | 899.5 | 736.1 | 5.504 | SF |
| Newman 2H-32H-C264 - HZ - Plan #1 | 300.0 | 301.0 | 37.5 | 36.5 | 39.701 | CC, ES |
| Newman 2H-32H-C264 - HZ - Plan #1 | 600.0 | 600.9 | 52.3 | 50.3 | 26.275 | SF |
| Newman 2I-32H-C264 - HZ - Plan #1 | 300.0 | 302.0 | 45.0 | 44.1 | 47.612 | CC, ES |
| Newman 2I-32H-C264 - HZ - Plan #1 | 600.0 | 600.5 | 62.0 | 60.0 | 31.125 | SF |
| Newman 2J-32H-C264 - HZ - Plan #1 | 300.0 | 302.0 | 52.6 | 51.6 | 55.596 | CC, ES |
| Newman 2J-32H-C264 - HZ - Plan #1 | 600.0 | 599.0 | 72.2 | 70.2 | 36.321 | SF |
| Newman 2K-32H-C264 - HZ - Plan #1 | 266.0 | 268.0 | 59.9 | 59.0 | 72.367 | CC |
| Newman 2K-32H-C264 - HZ - Plan #1 | 300.0 | 302.0 | 59.9 | 58.9 | 63.286 | ES |
| Newman 2K-32H-C264 - HZ - Plan #1 | 600.0 | 597.7 | 82.2 | 80.2 | 41.392 | SF |
| Newman 2L-32H-C264 - HZ - Plan #1 | 230.6 | 232.6 | 67.4 | 66.7 | 95.821 | CC |
| Newman 2L-32H-C264 - HZ - Plan #1 | 300.0 | 301.4 | 67.6 | 66.7 | 71.573 | ES |
| Newman 2L-32H-C264 - HZ - Plan #1 | 600.0 | 596.4 | 92.7 | 90.7 | 46.751 | SF |
| RUHL 1 (EXISTING) - EXISTING - ENCANA WELL | | | | | | Out of range |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - NEWMAN 2-32 (EXISTING) - EXISTING - ENCANA WELL | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 7893-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 7,800.0 | 7,175.0 | 7,125.0 | 7,125.0 | 25.3 | 12.4 | -90.00 | -1,012.3 | -268.6 | 984.9 | 956.2 | 28.72 | 34.294 | | |
| 7,900.0 | 7,175.0 | 7,125.0 | 7,125.0 | 26.1 | 12.4 | -90.00 | -1,012.3 | -268.6 | 936.0 | 906.1 | 29.89 | 31.316 | | |
| 8,000.0 | 7,175.0 | 7,125.0 | 7,125.0 | 26.9 | 12.4 | -90.00 | -1,012.3 | -268.6 | 895.6 | 864.4 | 31.15 | 28.752 | | |
| 8,100.0 | 7,175.0 | 7,125.0 | 7,125.0 | 27.8 | 12.4 | -90.00 | -1,012.3 | -268.6 | 864.9 | 832.4 | 32.48 | 26.627 | | |
| 8,200.0 | 7,175.0 | 7,125.0 | 7,125.0 | 28.8 | 12.4 | -90.00 | -1,012.3 | -268.6 | 845.1 | 811.2 | 33.88 | 24.944 | | |
| 8,300.0 | 7,175.0 | 7,125.0 | 7,125.0 | 29.9 | 12.4 | -90.00 | -1,012.3 | -268.6 | 836.8 | 801.4 | 35.32 | 23.688 | | |
| 8,319.9 | 7,175.0 | 7,125.0 | 7,125.0 | 30.1 | 12.4 | -90.00 | -1,012.3 | -268.6 | 836.5 | 800.9 | 35.62 | 23.485 CC, ES | | |
| 8,400.0 | 7,175.0 | 7,125.0 | 7,125.0 | 31.1 | 12.4 | -90.00 | -1,012.3 | -268.6 | 840.3 | 803.5 | 36.81 | 22.830 | | |
| 8,500.0 | 7,175.0 | 7,125.0 | 7,125.0 | 32.3 | 12.4 | -90.00 | -1,012.3 | -268.6 | 855.7 | 817.4 | 38.33 | 22.325 | | |
| 8,600.0 | 7,175.0 | 7,125.0 | 7,125.0 | 33.5 | 12.4 | -90.00 | -1,012.3 | -268.6 | 882.2 | 842.3 | 39.88 | 22.123 SF | | |
| 8,700.0 | 7,175.0 | 7,125.0 | 7,125.0 | 34.8 | 12.4 | -90.00 | -1,012.3 | -268.6 | 918.8 | 877.4 | 41.45 | 22.169 | | |
| 8,800.0 | 7,175.0 | 7,125.0 | 7,125.0 | 36.1 | 12.4 | -90.00 | -1,012.3 | -268.6 | 964.5 | 921.5 | 43.04 | 22.411 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2A-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -88.62 | 0.4 | -15.1 | 15.1 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -88.62 | 0.4 | -15.1 | 15.1 | 14.9 | 0.24 | 62.150 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -88.62 | 0.4 | -15.1 | 15.1 | 14.5 | 0.59 | 25.538 CC, ES | | |
| 300.0 | 300.0 | 298.4 | 298.4 | 0.5 | 0.5 | -87.75 | 0.7 | -16.8 | 16.8 | 15.9 | 0.94 | 17.807 | | |
| 400.0 | 400.0 | 397.8 | 397.6 | 0.6 | 0.7 | -10.65 | 1.6 | -21.8 | 20.2 | 18.9 | 1.29 | 15.692 | | |
| 500.0 | 499.8 | 496.9 | 496.4 | 0.8 | 0.9 | -10.50 | 3.1 | -30.2 | 23.6 | 22.0 | 1.64 | 14.448 | | |
| 600.0 | 599.5 | 596.0 | 594.8 | 1.1 | 1.2 | -10.88 | 5.1 | -42.0 | 27.1 | 25.1 | 1.99 | 13.635 | | |
| 700.0 | 698.7 | 695.0 | 692.5 | 1.3 | 1.5 | -11.60 | 7.8 | -57.1 | 30.5 | 28.2 | 2.34 | 13.049 | | |
| 800.0 | 797.5 | 793.8 | 789.6 | 1.6 | 1.8 | -12.56 | 11.1 | -75.5 | 34.0 | 31.3 | 2.70 | 12.587 | | |
| 900.0 | 895.6 | 892.5 | 885.8 | 2.0 | 2.3 | -13.69 | 14.9 | -97.1 | 37.4 | 34.3 | 3.07 | 12.187 | | |
| 1,000.0 | 993.3 | 991.1 | 981.1 | 2.4 | 2.7 | -14.61 | 19.3 | -122.0 | 41.8 | 38.4 | 3.46 | 12.091 | | |
| 1,100.0 | 1,090.9 | 1,089.6 | 1,075.4 | 2.8 | 3.3 | -14.61 | 24.3 | -149.9 | 49.5 | 45.7 | 3.85 | 12.857 | | |
| 1,200.0 | 1,188.5 | 1,189.2 | 1,170.4 | 3.2 | 3.8 | -14.40 | 29.5 | -179.3 | 58.3 | 54.0 | 4.24 | 13.746 | | |
| 1,300.0 | 1,286.2 | 1,288.8 | 1,265.5 | 3.6 | 4.4 | -14.25 | 34.7 | -208.7 | 67.0 | 62.4 | 4.63 | 14.483 | | |
| 1,400.0 | 1,383.8 | 1,388.4 | 1,360.5 | 4.0 | 4.9 | -14.13 | 40.0 | -238.0 | 75.8 | 70.8 | 5.02 | 15.104 | | |
| 1,500.0 | 1,481.5 | 1,488.0 | 1,455.6 | 4.4 | 5.5 | -14.03 | 45.2 | -267.4 | 84.5 | 79.1 | 5.41 | 15.634 | | |
| 1,600.0 | 1,579.1 | 1,587.7 | 1,550.6 | 4.8 | 6.1 | -13.95 | 50.4 | -296.7 | 93.3 | 87.5 | 5.80 | 16.091 | | |
| 1,700.0 | 1,676.7 | 1,687.3 | 1,645.7 | 5.3 | 6.6 | -13.89 | 55.6 | -326.1 | 102.1 | 95.9 | 6.19 | 16.490 | | |
| 1,800.0 | 1,774.4 | 1,786.9 | 1,740.7 | 5.7 | 7.2 | -13.84 | 60.8 | -355.4 | 110.8 | 104.2 | 6.58 | 16.841 | | |
| 1,900.0 | 1,872.0 | 1,886.5 | 1,835.8 | 6.1 | 7.7 | -13.79 | 66.0 | -384.8 | 119.6 | 112.6 | 6.97 | 17.152 | | |
| 2,000.0 | 1,969.6 | 1,986.1 | 1,930.8 | 6.5 | 8.3 | -13.75 | 71.2 | -414.1 | 128.3 | 121.0 | 7.36 | 17.430 | | |
| 2,100.0 | 2,067.3 | 2,085.7 | 2,025.9 | 6.9 | 8.9 | -13.72 | 76.4 | -443.5 | 137.1 | 129.3 | 7.75 | 17.679 | | |
| 2,200.0 | 2,164.9 | 2,185.3 | 2,120.9 | 7.3 | 9.4 | -13.69 | 81.7 | -472.9 | 145.8 | 137.7 | 8.15 | 17.904 | | |
| 2,300.0 | 2,262.5 | 2,285.0 | 2,216.0 | 7.8 | 10.0 | -13.66 | 86.9 | -502.2 | 154.6 | 146.1 | 8.54 | 18.108 | | |
| 2,400.0 | 2,360.2 | 2,384.6 | 2,311.0 | 8.2 | 10.6 | -13.64 | 92.1 | -531.6 | 163.4 | 154.4 | 8.93 | 18.294 | | |
| 2,500.0 | 2,457.8 | 2,484.2 | 2,406.1 | 8.6 | 11.1 | -13.62 | 97.3 | -560.9 | 172.1 | 162.8 | 9.32 | 18.464 | | |
| 2,600.0 | 2,555.4 | 2,583.8 | 2,501.1 | 9.0 | 11.7 | -13.60 | 102.5 | -590.3 | 180.9 | 171.2 | 9.71 | 18.620 | | |
| 2,700.0 | 2,653.1 | 2,683.4 | 2,596.2 | 9.5 | 12.3 | -13.58 | 107.7 | -619.6 | 189.6 | 179.5 | 10.11 | 18.764 | | |
| 2,800.0 | 2,750.7 | 2,783.0 | 2,691.2 | 9.9 | 12.9 | -13.56 | 112.9 | -649.0 | 198.4 | 187.9 | 10.50 | 18.897 | | |
| 2,900.0 | 2,848.3 | 2,882.7 | 2,786.2 | 10.3 | 13.4 | -13.55 | 118.2 | -678.4 | 207.2 | 196.3 | 10.89 | 19.020 | | |
| 3,000.0 | 2,946.0 | 2,982.3 | 2,881.3 | 10.7 | 14.0 | -13.53 | 123.4 | -707.7 | 215.9 | 204.6 | 11.28 | 19.135 | | |
| 3,100.0 | 3,043.6 | 3,081.9 | 2,976.3 | 11.1 | 14.6 | -13.52 | 128.6 | -737.1 | 224.7 | 213.0 | 11.68 | 19.242 | | |
| 3,200.0 | 3,141.2 | 3,181.5 | 3,071.4 | 11.6 | 15.1 | -13.51 | 133.8 | -766.4 | 233.4 | 221.4 | 12.07 | 19.342 | | |
| 3,300.0 | 3,238.9 | 3,281.1 | 3,166.4 | 12.0 | 15.7 | -13.50 | 139.0 | -795.8 | 242.2 | 229.7 | 12.46 | 19.436 | | |
| 3,400.0 | 3,336.5 | 3,380.7 | 3,261.5 | 12.4 | 16.3 | -13.49 | 144.2 | -825.1 | 251.0 | 238.1 | 12.85 | 19.524 | | |
| 3,500.0 | 3,434.1 | 3,480.3 | 3,356.5 | 12.8 | 16.8 | -13.48 | 149.4 | -854.5 | 259.7 | 246.5 | 13.25 | 19.606 | | |
| 3,600.0 | 3,531.8 | 3,580.0 | 3,451.6 | 13.3 | 17.4 | -13.47 | 154.6 | -883.8 | 268.5 | 254.8 | 13.64 | 19.684 | | |
| 3,700.0 | 3,629.4 | 3,679.6 | 3,546.6 | 13.7 | 18.0 | -13.46 | 159.9 | -913.2 | 277.2 | 263.2 | 14.03 | 19.757 | | |
| 3,800.0 | 3,727.1 | 3,779.2 | 3,641.7 | 14.1 | 18.5 | -13.46 | 165.1 | -942.6 | 286.0 | 271.6 | 14.42 | 19.827 | | |
| 3,900.0 | 3,824.7 | 3,878.8 | 3,736.7 | 14.5 | 19.1 | -13.45 | 170.3 | -971.9 | 294.8 | 279.9 | 14.82 | 19.892 | | |
| 4,000.0 | 3,922.3 | 3,978.4 | 3,831.8 | 14.9 | 19.7 | -13.44 | 175.5 | -1,001.3 | 303.5 | 288.3 | 15.21 | 19.955 | | |
| 4,100.0 | 4,020.0 | 4,078.0 | 3,926.8 | 15.4 | 20.2 | -13.44 | 180.7 | -1,030.6 | 312.3 | 296.7 | 15.60 | 20.014 | | |
| 4,200.0 | 4,117.6 | 4,177.7 | 4,021.9 | 15.8 | 20.8 | -13.43 | 185.9 | -1,060.0 | 321.0 | 305.0 | 16.00 | 20.070 | | |
| 4,300.0 | 4,215.2 | 4,277.3 | 4,116.9 | 16.2 | 21.4 | -13.42 | 191.1 | -1,089.3 | 329.8 | 313.4 | 16.39 | 20.124 | | |
| 4,400.0 | 4,312.9 | 4,376.9 | 4,212.0 | 16.6 | 22.0 | -13.42 | 196.4 | -1,118.7 | 338.6 | 321.8 | 16.78 | 20.174 | | |
| 4,500.0 | 4,410.5 | 4,476.5 | 4,307.0 | 17.1 | 22.5 | -13.41 | 201.6 | -1,148.0 | 347.3 | 330.1 | 17.17 | 20.223 | | |
| 4,600.0 | 4,508.1 | 4,576.1 | 4,402.1 | 17.5 | 23.1 | -13.41 | 206.8 | -1,177.4 | 356.1 | 338.5 | 17.57 | 20.269 | | |
| 4,700.0 | 4,605.8 | 4,675.7 | 4,497.1 | 17.9 | 23.7 | -13.40 | 212.0 | -1,206.8 | 364.8 | 346.9 | 17.96 | 20.314 | | |
| 4,800.0 | 4,703.4 | 4,775.4 | 4,592.2 | 18.3 | 24.2 | -13.40 | 217.2 | -1,236.1 | 373.6 | 355.2 | 18.35 | 20.356 | | |
| 4,900.0 | 4,801.0 | 4,875.0 | 4,687.2 | 18.7 | 24.8 | -13.39 | 222.4 | -1,265.5 | 382.3 | 363.6 | 18.75 | 20.397 | | |
| 5,000.0 | 4,898.7 | 4,974.6 | 4,782.3 | 19.2 | 25.4 | -13.39 | 227.6 | -1,294.8 | 391.1 | 372.0 | 19.14 | 20.436 | | |
| 5,100.0 | 4,996.3 | 5,074.2 | 4,877.3 | 19.6 | 25.9 | -13.39 | 232.9 | -1,324.2 | 399.9 | 380.3 | 19.53 | 20.473 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2A-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 5,200.0 | 5,093.9 | 5,173.8 | 4,972.4 | 20.0 | 26.5 | -13.38 | 238.1 | -1,353.5 | 408.6 | 388.7 | 19.92 | 20.509 | | |
| 5,300.0 | 5,191.6 | 5,273.4 | 5,067.4 | 20.4 | 27.1 | -13.38 | 243.3 | -1,382.9 | 417.4 | 397.1 | 20.32 | 20.544 | | |
| 5,400.0 | 5,289.2 | 5,376.6 | 5,165.9 | 20.9 | 27.7 | -13.38 | 248.7 | -1,413.2 | 426.1 | 405.3 | 20.72 | 20.566 | | |
| 5,500.0 | 5,386.8 | 5,493.8 | 5,278.6 | 21.3 | 28.2 | -13.45 | 254.2 | -1,444.5 | 432.0 | 410.8 | 21.16 | 20.413 | | |
| 5,600.0 | 5,484.9 | 5,611.2 | 5,392.9 | 21.6 | 28.7 | -13.57 | 259.0 | -1,471.3 | 435.8 | 414.2 | 21.59 | 20.182 | | |
| 5,700.0 | 5,583.5 | 5,728.9 | 5,508.3 | 22.0 | 29.1 | -13.68 | 262.9 | -1,493.6 | 438.9 | 416.9 | 21.99 | 19.959 | | |
| 5,800.0 | 5,682.7 | 5,846.7 | 5,624.8 | 22.2 | 29.5 | -13.75 | 266.0 | -1,511.1 | 441.4 | 419.0 | 22.36 | 19.743 | | |
| 5,900.0 | 5,782.3 | 5,964.6 | 5,742.0 | 22.4 | 29.7 | -13.81 | 268.3 | -1,523.9 | 443.2 | 420.5 | 22.69 | 19.533 | | |
| 6,000.0 | 5,882.1 | 6,082.6 | 5,859.7 | 22.5 | 29.9 | -13.85 | 269.8 | -1,532.0 | 444.4 | 421.4 | 22.99 | 19.327 | | |
| 6,100.0 | 5,982.1 | 6,200.6 | 5,977.6 | 22.6 | 30.0 | -13.86 | 270.3 | -1,535.3 | 444.9 | 421.6 | 23.26 | 19.124 | | |
| 6,200.0 | 6,082.1 | 6,304.0 | 6,081.1 | 22.7 | 30.0 | -89.95 | 270.4 | -1,535.4 | 444.9 | 421.1 | 23.80 | 18.694 | | |
| 6,300.0 | 6,182.1 | 6,404.0 | 6,181.1 | 22.8 | 30.1 | -89.95 | 270.4 | -1,535.4 | 444.9 | 420.8 | 24.12 | 18.447 | | |
| 6,400.0 | 6,282.1 | 6,504.0 | 6,281.1 | 22.9 | 30.2 | -89.95 | 270.4 | -1,535.4 | 444.9 | 420.5 | 24.44 | 18.206 | | |
| 6,500.0 | 6,382.1 | 6,604.0 | 6,381.1 | 23.0 | 30.2 | -89.95 | 270.4 | -1,535.4 | 444.9 | 420.1 | 24.76 | 17.970 | | |
| 6,563.0 | 6,445.0 | 6,667.0 | 6,444.0 | 23.0 | 30.3 | -89.95 | 270.4 | -1,535.4 | 444.9 | 419.9 | 24.96 | 17.824 | | |
| 6,600.0 | 6,482.1 | 6,703.9 | 6,481.0 | 23.1 | 30.3 | -89.96 | 270.3 | -1,535.4 | 444.9 | 419.8 | 25.08 | 17.739 | | |
| 6,700.0 | 6,582.1 | 6,801.6 | 6,578.0 | 23.1 | 30.3 | -91.25 | 260.3 | -1,535.6 | 445.2 | 419.4 | 25.74 | 17.297 | | |
| 6,800.0 | 6,681.8 | 6,894.9 | 6,667.9 | 23.2 | 30.3 | 85.44 | 235.5 | -1,535.9 | 446.5 | 420.0 | 26.50 | 16.851 | | |
| 6,900.0 | 6,779.1 | 6,985.3 | 6,750.0 | 23.2 | 30.3 | 82.90 | 197.9 | -1,536.5 | 448.7 | 421.5 | 27.16 | 16.520 | | |
| 7,000.0 | 6,871.1 | 7,073.3 | 6,823.2 | 23.2 | 30.3 | 80.59 | 149.3 | -1,537.2 | 451.5 | 424.2 | 27.37 | 16.498 | | |
| 7,100.0 | 6,954.8 | 7,159.3 | 6,886.9 | 23.2 | 30.3 | 78.57 | 91.6 | -1,538.0 | 454.7 | 427.6 | 27.13 | 16.761 | | |
| 7,200.0 | 7,027.8 | 7,243.8 | 6,940.3 | 23.2 | 30.4 | 76.86 | 26.2 | -1,539.0 | 457.8 | 431.2 | 26.59 | 17.216 | | |
| 7,300.0 | 7,088.0 | 7,327.1 | 6,982.9 | 23.2 | 30.4 | 75.51 | -45.2 | -1,540.0 | 460.7 | 434.6 | 26.10 | 17.649 | | |
| 7,400.0 | 7,133.3 | 7,409.4 | 7,014.5 | 23.4 | 30.6 | 74.54 | -121.1 | -1,541.1 | 462.9 | 436.9 | 26.01 | 17.800 | | |
| 7,500.0 | 7,162.5 | 7,491.2 | 7,034.8 | 23.7 | 30.8 | 73.95 | -200.3 | -1,542.2 | 464.5 | 437.8 | 26.73 | 17.375 | | |
| 7,600.0 | 7,174.7 | 7,572.7 | 7,043.6 | 24.1 | 31.0 | 73.76 | -281.3 | -1,543.4 | 465.2 | 436.7 | 28.43 | 16.362 | | |
| 7,700.0 | 7,175.0 | 7,667.9 | 7,044.0 | 24.7 | 31.4 | 73.78 | -376.4 | -1,544.8 | 465.4 | 435.1 | 30.29 | 15.368 | | |
| 7,800.0 | 7,175.0 | 7,767.9 | 7,044.0 | 25.3 | 31.9 | 73.79 | -476.4 | -1,546.3 | 465.7 | 433.5 | 32.27 | 14.432 | | |
| 7,900.0 | 7,175.0 | 7,867.9 | 7,044.0 | 26.1 | 32.5 | 73.80 | -576.4 | -1,547.7 | 466.0 | 431.6 | 34.47 | 13.519 | | |
| 8,000.0 | 7,175.0 | 7,967.9 | 7,044.0 | 26.9 | 33.2 | 73.81 | -676.4 | -1,549.2 | 466.3 | 429.5 | 36.85 | 12.654 | | |
| 8,100.0 | 7,175.0 | 8,067.9 | 7,044.0 | 27.8 | 33.9 | 73.82 | -776.4 | -1,550.6 | 466.6 | 427.3 | 39.38 | 11.850 | | |
| 8,200.0 | 7,175.0 | 8,167.9 | 7,044.0 | 28.8 | 34.7 | 73.83 | -876.4 | -1,552.1 | 466.9 | 424.9 | 42.02 | 11.112 | | |
| 8,300.0 | 7,175.0 | 8,267.9 | 7,044.0 | 29.9 | 35.6 | 73.85 | -976.4 | -1,553.5 | 467.2 | 422.5 | 44.77 | 10.437 | | |
| 8,400.0 | 7,175.0 | 8,367.9 | 7,044.0 | 31.1 | 36.5 | 73.86 | -1,076.4 | -1,555.0 | 467.5 | 420.0 | 47.59 | 9.824 | | |
| 8,500.0 | 7,175.0 | 8,467.9 | 7,044.0 | 32.3 | 37.5 | 73.87 | -1,176.4 | -1,556.4 | 467.8 | 417.4 | 50.48 | 9.267 | | |
| 8,600.0 | 7,175.0 | 8,567.9 | 7,044.0 | 33.5 | 38.6 | 73.88 | -1,276.3 | -1,557.9 | 468.1 | 414.7 | 53.43 | 8.762 | | |
| 8,700.0 | 7,175.0 | 8,667.9 | 7,044.0 | 34.8 | 39.7 | 73.89 | -1,376.3 | -1,559.4 | 468.4 | 412.0 | 56.43 | 8.301 | | |
| 8,800.0 | 7,175.0 | 8,767.9 | 7,044.0 | 36.1 | 40.9 | 73.90 | -1,476.3 | -1,560.8 | 468.7 | 409.3 | 59.47 | 7.882 | | |
| 8,900.0 | 7,175.0 | 8,867.9 | 7,044.0 | 37.5 | 42.1 | 73.91 | -1,576.3 | -1,562.3 | 469.0 | 406.5 | 62.54 | 7.500 | | |
| 9,000.0 | 7,175.0 | 8,967.9 | 7,044.0 | 38.9 | 43.3 | 73.92 | -1,676.3 | -1,563.7 | 469.3 | 403.7 | 65.64 | 7.150 | | |
| 9,100.0 | 7,175.0 | 9,067.9 | 7,044.0 | 40.3 | 44.6 | 73.93 | -1,776.3 | -1,565.2 | 469.6 | 400.9 | 68.77 | 6.829 | | |
| 9,200.0 | 7,175.0 | 9,167.9 | 7,044.0 | 41.8 | 45.9 | 73.94 | -1,876.3 | -1,566.6 | 469.9 | 398.0 | 71.92 | 6.534 | | |
| 9,300.0 | 7,175.0 | 9,267.9 | 7,044.0 | 43.3 | 47.2 | 73.95 | -1,976.3 | -1,568.1 | 470.3 | 395.2 | 75.09 | 6.262 | | |
| 9,400.0 | 7,175.0 | 9,367.9 | 7,044.0 | 44.8 | 48.6 | 73.96 | -2,076.3 | -1,569.5 | 470.6 | 392.3 | 78.28 | 6.011 | | |
| 9,500.0 | 7,175.0 | 9,467.9 | 7,044.0 | 46.3 | 50.0 | 73.97 | -2,176.2 | -1,571.0 | 470.9 | 389.4 | 81.49 | 5.778 | | |
| 9,600.0 | 7,175.0 | 9,567.9 | 7,044.0 | 47.8 | 51.4 | 73.98 | -2,276.2 | -1,572.4 | 471.2 | 386.4 | 84.71 | 5.562 | | |
| 9,700.0 | 7,175.0 | 9,667.9 | 7,044.0 | 49.3 | 52.8 | 73.99 | -2,376.2 | -1,573.9 | 471.5 | 383.5 | 87.94 | 5.361 | | |
| 9,800.0 | 7,175.0 | 9,767.9 | 7,044.0 | 50.9 | 54.3 | 74.00 | -2,476.2 | -1,575.3 | 471.8 | 380.6 | 91.18 | 5.174 | | |
| 9,900.0 | 7,175.0 | 9,867.9 | 7,044.0 | 52.5 | 55.8 | 74.01 | -2,576.2 | -1,576.8 | 472.1 | 377.6 | 94.43 | 4.999 | | |
| 10,000.0 | 7,175.0 | 9,967.9 | 7,044.0 | 54.1 | 57.3 | 74.03 | -2,676.2 | -1,578.3 | 472.4 | 374.7 | 97.69 | 4.835 | | |
| 10,100.0 | 7,175.0 | 10,067.9 | 7,044.0 | 55.6 | 58.8 | 74.04 | -2,776.2 | -1,579.7 | 472.7 | 371.7 | 100.96 | 4.682 | | |
| 10,200.0 | 7,175.0 | 10,167.9 | 7,044.0 | 57.3 | 60.3 | 74.05 | -2,876.2 | -1,581.2 | 473.0 | 368.7 | 104.23 | 4.537 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2A-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 10,300.0 | 7,175.0 | 10,267.9 | 7,044.0 | 58.9 | 61.8 | 74.06 | -2,976.2 | -1,582.6 | 473.3 | 365.7 | 107.52 | 4.402 | | |
| 10,400.0 | 7,175.0 | 10,367.9 | 7,044.0 | 60.5 | 63.4 | 74.07 | -3,076.1 | -1,584.1 | 473.6 | 362.8 | 110.81 | 4.274 | | |
| 10,500.0 | 7,175.0 | 10,467.9 | 7,044.0 | 62.1 | 64.9 | 74.08 | -3,176.1 | -1,585.5 | 473.9 | 359.8 | 114.10 | 4.153 | | |
| 10,600.0 | 7,175.0 | 10,567.9 | 7,044.0 | 63.7 | 66.5 | 74.09 | -3,276.1 | -1,587.0 | 474.2 | 356.8 | 117.40 | 4.039 | | |
| 10,700.0 | 7,175.0 | 10,667.9 | 7,044.0 | 65.4 | 68.1 | 74.10 | -3,376.1 | -1,588.4 | 474.5 | 353.8 | 120.70 | 3.931 | | |
| 10,800.0 | 7,175.0 | 10,767.9 | 7,044.0 | 67.0 | 69.6 | 74.11 | -3,476.1 | -1,589.9 | 474.8 | 350.8 | 124.01 | 3.828 | | |
| 10,900.0 | 7,175.0 | 10,867.9 | 7,044.0 | 68.7 | 71.2 | 74.12 | -3,576.1 | -1,591.3 | 475.1 | 347.7 | 127.33 | 3.731 | | |
| 11,000.0 | 7,175.0 | 10,967.9 | 7,044.0 | 70.3 | 72.8 | 74.13 | -3,676.1 | -1,592.8 | 475.4 | 344.7 | 130.64 | 3.639 | | |
| 11,100.0 | 7,175.0 | 11,067.9 | 7,044.0 | 72.0 | 74.4 | 74.14 | -3,776.1 | -1,594.2 | 475.7 | 341.7 | 133.96 | 3.551 | | |
| 11,200.0 | 7,175.0 | 11,167.9 | 7,044.0 | 73.7 | 76.0 | 74.15 | -3,876.1 | -1,595.7 | 476.0 | 338.7 | 137.29 | 3.467 | | |
| 11,300.0 | 7,175.0 | 11,267.9 | 7,044.0 | 75.3 | 77.7 | 74.16 | -3,976.0 | -1,597.2 | 476.3 | 335.7 | 140.62 | 3.387 | | |
| 11,400.0 | 7,175.0 | 11,367.9 | 7,044.0 | 77.0 | 79.3 | 74.17 | -4,076.0 | -1,598.6 | 476.6 | 332.6 | 143.95 | 3.311 | | |
| 11,500.0 | 7,175.0 | 11,467.9 | 7,044.0 | 78.7 | 80.9 | 74.18 | -4,176.0 | -1,600.1 | 476.9 | 329.6 | 147.28 | 3.238 | | |
| 11,600.0 | 7,175.0 | 11,567.9 | 7,044.0 | 80.4 | 82.5 | 74.19 | -4,276.0 | -1,601.5 | 477.2 | 326.6 | 150.61 | 3.168 | | |
| 11,700.0 | 7,175.0 | 11,667.9 | 7,044.0 | 82.0 | 84.2 | 74.20 | -4,376.0 | -1,603.0 | 477.5 | 323.5 | 153.95 | 3.102 | | |
| 11,800.0 | 7,175.0 | 11,767.9 | 7,044.0 | 83.7 | 85.8 | 74.21 | -4,476.0 | -1,604.4 | 477.8 | 320.5 | 157.29 | 3.038 | | |
| 11,865.9 | 7,175.0 | 11,833.8 | 7,044.0 | 84.8 | 86.9 | 74.22 | -4,541.9 | -1,605.4 | 478.0 | 318.5 | 159.50 | 2.997 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2B-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -87.33 | 0.4 | -7.6 | 7.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -87.33 | 0.4 | -7.6 | 7.6 | 7.3 | 0.24 | 30.944 | CC, ES | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -87.33 | 0.4 | -7.6 | 7.6 | 7.0 | 0.59 | 12.742 | | |
| 233.4 | 233.4 | 233.4 | 233.4 | 0.4 | 0.4 | -87.33 | 0.4 | -7.6 | 7.6 | 6.9 | 0.71 | 10.651 | | |
| 300.0 | 300.0 | 299.9 | 299.9 | 0.5 | 0.5 | -86.88 | 0.4 | -8.0 | 8.0 | 7.0 | 0.94 | 8.480 | | |
| 400.0 | 400.0 | 399.5 | 399.5 | 0.6 | 0.7 | -9.85 | 1.1 | -11.4 | 9.7 | 8.4 | 1.29 | 7.535 | | |
| 500.0 | 499.8 | 499.2 | 498.8 | 0.8 | 0.9 | -10.04 | 2.4 | -18.2 | 11.5 | 9.8 | 1.64 | 7.000 | | |
| 600.0 | 599.5 | 598.7 | 597.9 | 1.1 | 1.1 | -10.90 | 4.4 | -28.4 | 13.2 | 11.2 | 1.99 | 6.653 | | |
| 700.0 | 698.7 | 698.2 | 696.4 | 1.3 | 1.4 | -12.20 | 7.1 | -41.9 | 15.0 | 12.7 | 2.34 | 6.406 | | |
| 800.0 | 797.5 | 797.7 | 794.3 | 1.6 | 1.7 | -13.79 | 10.4 | -58.8 | 16.8 | 14.1 | 2.71 | 6.208 | | |
| 900.0 | 895.6 | 897.0 | 891.6 | 2.0 | 2.1 | -15.57 | 14.4 | -78.9 | 18.6 | 15.5 | 3.09 | 6.029 | | |
| 1,000.0 | 993.3 | 996.3 | 987.9 | 2.4 | 2.6 | -16.70 | 19.0 | -102.4 | 21.5 | 18.0 | 3.50 | 6.136 | | |
| 1,100.0 | 1,090.9 | 1,095.9 | 1,083.8 | 2.8 | 3.1 | -16.07 | 24.2 | -128.6 | 27.0 | 23.1 | 3.89 | 6.944 | | |
| 1,200.0 | 1,188.5 | 1,195.7 | 1,179.9 | 3.2 | 3.6 | -15.54 | 29.4 | -155.3 | 32.8 | 28.5 | 4.27 | 7.679 | | |
| 1,300.0 | 1,286.2 | 1,295.5 | 1,275.9 | 3.6 | 4.1 | -15.16 | 34.6 | -181.9 | 38.7 | 34.0 | 4.66 | 8.290 | | |
| 1,400.0 | 1,383.8 | 1,395.3 | 1,372.0 | 4.0 | 4.6 | -14.88 | 39.9 | -208.5 | 44.5 | 39.4 | 5.05 | 8.806 | | |
| 1,500.0 | 1,481.5 | 1,495.2 | 1,468.1 | 4.4 | 5.1 | -14.67 | 45.1 | -235.1 | 50.3 | 44.9 | 5.44 | 9.248 | | |
| 1,600.0 | 1,579.1 | 1,595.0 | 1,564.2 | 4.8 | 5.6 | -14.50 | 50.3 | -261.7 | 56.1 | 50.3 | 5.83 | 9.630 | | |
| 1,700.0 | 1,676.7 | 1,694.8 | 1,660.2 | 5.3 | 6.1 | -14.37 | 55.6 | -288.3 | 62.0 | 55.8 | 6.22 | 9.964 | | |
| 1,800.0 | 1,774.4 | 1,794.7 | 1,756.3 | 5.7 | 6.6 | -14.25 | 60.8 | -314.9 | 67.8 | 61.2 | 6.61 | 10.258 | | |
| 1,900.0 | 1,872.0 | 1,894.5 | 1,852.4 | 6.1 | 7.1 | -14.16 | 66.0 | -341.5 | 73.7 | 66.6 | 7.00 | 10.519 | | |
| 2,000.0 | 1,969.6 | 1,994.3 | 1,948.5 | 6.5 | 7.6 | -14.08 | 71.3 | -368.1 | 79.5 | 72.1 | 7.39 | 10.752 | | |
| 2,100.0 | 2,067.3 | 2,094.2 | 2,044.5 | 6.9 | 8.2 | -14.01 | 76.5 | -394.7 | 85.3 | 77.5 | 7.78 | 10.961 | | |
| 2,200.0 | 2,164.9 | 2,194.0 | 2,140.6 | 7.3 | 8.7 | -13.95 | 81.7 | -421.4 | 91.2 | 83.0 | 8.17 | 11.151 | | |
| 2,300.0 | 2,262.5 | 2,293.8 | 2,236.7 | 7.8 | 9.2 | -13.89 | 87.0 | -448.0 | 97.0 | 88.4 | 8.57 | 11.322 | | |
| 2,400.0 | 2,360.2 | 2,393.6 | 2,332.8 | 8.2 | 9.7 | -13.84 | 92.2 | -474.6 | 102.8 | 93.9 | 8.96 | 11.479 | | |
| 2,500.0 | 2,457.8 | 2,493.5 | 2,428.8 | 8.6 | 10.2 | -13.80 | 97.4 | -501.2 | 108.7 | 99.3 | 9.35 | 11.623 | | |
| 2,600.0 | 2,555.4 | 2,593.3 | 2,524.9 | 9.0 | 10.7 | -13.76 | 102.7 | -527.8 | 114.5 | 104.8 | 9.74 | 11.755 | | |
| 2,700.0 | 2,653.1 | 2,693.1 | 2,621.0 | 9.5 | 11.3 | -13.73 | 107.9 | -554.4 | 120.3 | 110.2 | 10.13 | 11.876 | | |
| 2,800.0 | 2,750.7 | 2,793.0 | 2,717.1 | 9.9 | 11.8 | -13.70 | 113.1 | -581.0 | 126.2 | 115.6 | 10.52 | 11.989 | | |
| 2,900.0 | 2,848.3 | 2,892.8 | 2,813.1 | 10.3 | 12.3 | -13.67 | 118.4 | -607.6 | 132.0 | 121.1 | 10.92 | 12.093 | | |
| 3,000.0 | 2,946.0 | 2,992.6 | 2,909.2 | 10.7 | 12.8 | -13.64 | 123.6 | -634.2 | 137.8 | 126.5 | 11.31 | 12.191 | | |
| 3,100.0 | 3,043.6 | 3,092.4 | 3,005.3 | 11.1 | 13.3 | -13.62 | 128.8 | -660.8 | 143.7 | 132.0 | 11.70 | 12.281 | | |
| 3,200.0 | 3,141.2 | 3,192.3 | 3,101.4 | 11.6 | 13.9 | -13.60 | 134.1 | -687.5 | 149.5 | 137.4 | 12.09 | 12.366 | | |
| 3,300.0 | 3,238.9 | 3,292.1 | 3,197.4 | 12.0 | 14.4 | -13.58 | 139.3 | -714.1 | 155.3 | 142.9 | 12.48 | 12.445 | | |
| 3,400.0 | 3,336.5 | 3,391.9 | 3,293.5 | 12.4 | 14.9 | -13.56 | 144.5 | -740.7 | 161.2 | 148.3 | 12.87 | 12.520 | | |
| 3,500.0 | 3,434.1 | 3,491.8 | 3,389.6 | 12.8 | 15.4 | -13.54 | 149.8 | -767.3 | 167.0 | 153.7 | 13.27 | 12.590 | | |
| 3,600.0 | 3,531.8 | 3,591.6 | 3,485.7 | 13.3 | 15.9 | -13.52 | 155.0 | -793.9 | 172.8 | 159.2 | 13.66 | 12.656 | | |
| 3,700.0 | 3,629.4 | 3,691.4 | 3,581.7 | 13.7 | 16.4 | -13.51 | 160.2 | -820.5 | 178.7 | 164.6 | 14.05 | 12.718 | | |
| 3,800.0 | 3,727.1 | 3,791.3 | 3,677.8 | 14.1 | 17.0 | -13.49 | 165.5 | -847.1 | 184.5 | 170.1 | 14.44 | 12.777 | | |
| 3,900.0 | 3,824.7 | 3,891.1 | 3,773.9 | 14.5 | 17.5 | -13.48 | 170.7 | -873.7 | 190.4 | 175.5 | 14.83 | 12.833 | | |
| 4,000.0 | 3,922.3 | 3,990.9 | 3,870.0 | 14.9 | 18.0 | -13.47 | 175.9 | -900.3 | 196.2 | 181.0 | 15.23 | 12.886 | | |
| 4,100.0 | 4,020.0 | 4,090.7 | 3,966.0 | 15.4 | 18.5 | -13.45 | 181.2 | -926.9 | 202.0 | 186.4 | 15.62 | 12.936 | | |
| 4,200.0 | 4,117.6 | 4,190.6 | 4,062.1 | 15.8 | 19.0 | -13.44 | 186.4 | -953.6 | 207.9 | 191.9 | 16.01 | 12.984 | | |
| 4,300.0 | 4,215.2 | 4,290.4 | 4,158.2 | 16.2 | 19.6 | -13.43 | 191.6 | -980.2 | 213.7 | 197.3 | 16.40 | 13.029 | | |
| 4,400.0 | 4,312.9 | 4,390.2 | 4,254.3 | 16.6 | 20.1 | -13.42 | 196.9 | -1,006.8 | 219.5 | 202.7 | 16.79 | 13.073 | | |
| 4,500.0 | 4,410.5 | 4,490.1 | 4,350.3 | 17.1 | 20.6 | -13.41 | 202.1 | -1,033.4 | 225.4 | 208.2 | 17.19 | 13.114 | | |
| 4,600.0 | 4,508.1 | 4,589.9 | 4,446.4 | 17.5 | 21.1 | -13.40 | 207.3 | -1,060.0 | 231.2 | 213.6 | 17.58 | 13.154 | | |
| 4,700.0 | 4,605.8 | 4,689.7 | 4,542.5 | 17.9 | 21.6 | -13.39 | 212.6 | -1,086.6 | 237.0 | 219.1 | 17.97 | 13.191 | | |
| 4,800.0 | 4,703.4 | 4,789.6 | 4,638.6 | 18.3 | 22.2 | -13.39 | 217.8 | -1,113.2 | 242.9 | 224.5 | 18.36 | 13.228 | | |
| 4,900.0 | 4,801.0 | 4,889.4 | 4,734.6 | 18.7 | 22.7 | -13.38 | 223.0 | -1,139.8 | 248.7 | 230.0 | 18.75 | 13.262 | | |
| 5,000.0 | 4,898.7 | 4,989.2 | 4,830.7 | 19.2 | 23.2 | -13.37 | 228.3 | -1,166.4 | 254.5 | 235.4 | 19.15 | 13.295 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2B-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 5,100.0 | 4,996.3 | 5,089.0 | 4,926.8 | 19.6 | 23.7 | -13.36 | 233.5 | -1,193.0 | 260.4 | 240.8 | 19.54 | 13.327 | | |
| 5,200.0 | 5,093.9 | 5,188.9 | 5,022.9 | 20.0 | 24.2 | -13.36 | 238.7 | -1,219.7 | 266.2 | 246.3 | 19.93 | 13.358 | | |
| 5,300.0 | 5,191.6 | 5,288.7 | 5,118.9 | 20.4 | 24.8 | -13.35 | 244.0 | -1,246.3 | 272.0 | 251.7 | 20.32 | 13.387 | | |
| 5,400.0 | 5,289.2 | 5,388.5 | 5,215.0 | 20.9 | 25.3 | -13.34 | 249.2 | -1,272.9 | 277.9 | 257.2 | 20.71 | 13.416 | | |
| 5,500.0 | 5,386.8 | 5,498.3 | 5,321.2 | 21.3 | 25.8 | -13.41 | 254.6 | -1,300.4 | 282.1 | 261.0 | 21.14 | 13.344 | | |
| 5,600.0 | 5,484.9 | 5,609.1 | 5,429.2 | 21.6 | 26.2 | -13.54 | 259.3 | -1,324.1 | 284.4 | 262.9 | 21.57 | 13.188 | | |
| 5,700.0 | 5,583.5 | 5,719.9 | 5,538.2 | 22.0 | 26.6 | -13.64 | 263.1 | -1,343.7 | 286.3 | 264.4 | 21.96 | 13.040 | | |
| 5,800.0 | 5,682.7 | 5,830.8 | 5,648.0 | 22.2 | 26.9 | -13.72 | 266.2 | -1,359.2 | 287.9 | 265.5 | 22.32 | 12.897 | | |
| 5,900.0 | 5,782.3 | 5,941.7 | 5,758.3 | 22.4 | 27.1 | -13.78 | 268.4 | -1,370.4 | 289.0 | 266.3 | 22.65 | 12.759 | | |
| 6,000.0 | 5,882.1 | 6,052.7 | 5,869.1 | 22.5 | 27.3 | -13.82 | 269.8 | -1,377.5 | 289.7 | 266.7 | 22.94 | 12.625 | | |
| 6,100.0 | 5,982.1 | 6,163.8 | 5,980.1 | 22.6 | 27.4 | -13.84 | 270.3 | -1,380.4 | 289.9 | 266.7 | 23.21 | 12.493 | | |
| 6,200.0 | 6,082.1 | 6,265.7 | 6,082.1 | 22.7 | 27.4 | -89.93 | 270.4 | -1,380.5 | 290.0 | 266.2 | 23.73 | 12.220 | | |
| 6,300.0 | 6,182.1 | 6,365.7 | 6,182.1 | 22.8 | 27.5 | -89.93 | 270.4 | -1,380.5 | 290.0 | 265.9 | 24.05 | 12.058 | | |
| 6,400.0 | 6,282.1 | 6,465.7 | 6,282.1 | 22.9 | 27.6 | -89.93 | 270.4 | -1,380.5 | 290.0 | 265.6 | 24.37 | 11.900 | | |
| 6,500.0 | 6,382.1 | 6,565.7 | 6,382.1 | 23.0 | 27.6 | -89.93 | 270.4 | -1,380.5 | 290.0 | 265.3 | 24.69 | 11.745 | | |
| 6,529.3 | 6,411.4 | 6,595.1 | 6,411.4 | 23.0 | 27.7 | -90.09 | 269.5 | -1,380.5 | 290.0 | 265.1 | 24.82 | 11.683 | | |
| 6,600.0 | 6,482.1 | 6,664.8 | 6,480.6 | 23.1 | 27.7 | -91.65 | 261.6 | -1,380.5 | 290.1 | 264.6 | 25.47 | 11.387 | | |
| 6,700.0 | 6,582.1 | 6,758.2 | 6,570.8 | 23.1 | 27.7 | -96.30 | 238.0 | -1,380.5 | 291.9 | 264.7 | 27.25 | 10.714 | | |
| 6,800.0 | 6,681.8 | 6,844.1 | 6,649.5 | 23.2 | 27.6 | 76.76 | 203.6 | -1,380.5 | 298.0 | 268.5 | 29.42 | 10.127 | | |
| 6,900.0 | 6,779.1 | 6,926.4 | 6,719.2 | 23.2 | 27.6 | 70.95 | 159.9 | -1,380.5 | 306.9 | 275.7 | 31.18 | 9.843 | | |
| 7,000.0 | 6,871.1 | 7,005.8 | 6,779.8 | 23.2 | 27.6 | 65.90 | 108.8 | -1,380.5 | 317.5 | 285.7 | 31.77 | 9.994 | | |
| 7,100.0 | 6,954.8 | 7,082.9 | 6,831.4 | 23.2 | 27.6 | 61.67 | 51.5 | -1,380.5 | 328.5 | 297.4 | 31.08 | 10.570 | | |
| 7,200.0 | 7,027.8 | 7,158.4 | 6,874.0 | 23.2 | 27.7 | 58.25 | -10.7 | -1,380.5 | 338.8 | 309.4 | 29.39 | 11.526 | | |
| 7,300.0 | 7,088.0 | 7,232.5 | 6,907.6 | 23.2 | 27.8 | 55.62 | -76.7 | -1,380.5 | 347.6 | 320.4 | 27.15 | 12.802 | | |
| 7,400.0 | 7,133.3 | 7,300.0 | 6,930.5 | 23.4 | 27.9 | 53.81 | -140.1 | -1,380.5 | 354.3 | 329.1 | 25.21 | 14.057 | | |
| 7,500.0 | 7,162.5 | 7,378.3 | 6,947.5 | 23.7 | 28.1 | 52.56 | -216.5 | -1,380.5 | 358.3 | 333.8 | 24.52 | 14.611 | | |
| 7,600.0 | 7,174.7 | 7,450.0 | 6,953.8 | 24.1 | 28.3 | 52.07 | -287.9 | -1,380.5 | 359.5 | 333.7 | 25.80 | 13.936 | | |
| 7,700.0 | 7,175.0 | 7,545.1 | 6,954.0 | 24.7 | 28.7 | 51.96 | -382.9 | -1,380.5 | 358.7 | 331.2 | 27.44 | 13.072 | | |
| 7,800.0 | 7,175.0 | 7,645.0 | 6,954.0 | 25.3 | 29.3 | 51.85 | -482.9 | -1,380.5 | 357.8 | 328.8 | 29.02 | 12.331 | | |
| 7,900.0 | 7,175.0 | 7,745.0 | 6,954.0 | 26.1 | 29.9 | 51.74 | -582.9 | -1,380.5 | 356.9 | 326.1 | 30.75 | 11.605 | | |
| 8,000.0 | 7,175.0 | 7,845.0 | 6,954.0 | 26.9 | 30.6 | 51.62 | -682.9 | -1,380.5 | 356.0 | 323.4 | 32.62 | 10.912 | | |
| 8,100.0 | 7,175.0 | 7,945.0 | 6,954.0 | 27.8 | 31.4 | 51.51 | -782.9 | -1,380.5 | 355.1 | 320.5 | 34.60 | 10.262 | | |
| 8,200.0 | 7,175.0 | 8,045.0 | 6,954.0 | 28.8 | 32.3 | 51.39 | -882.9 | -1,380.5 | 354.2 | 317.5 | 36.67 | 9.659 | | |
| 8,300.0 | 7,175.0 | 8,145.0 | 6,954.0 | 29.9 | 33.2 | 51.28 | -982.9 | -1,380.5 | 353.3 | 314.5 | 38.82 | 9.102 | | |
| 8,400.0 | 7,175.0 | 8,245.0 | 6,954.0 | 31.1 | 34.2 | 51.16 | -1,082.9 | -1,380.5 | 352.4 | 311.4 | 41.02 | 8.592 | | |
| 8,500.0 | 7,175.0 | 8,345.0 | 6,954.0 | 32.3 | 35.3 | 51.05 | -1,182.9 | -1,380.5 | 351.5 | 308.3 | 43.27 | 8.124 | | |
| 8,600.0 | 7,175.0 | 8,445.0 | 6,954.0 | 33.5 | 36.4 | 50.93 | -1,282.9 | -1,380.5 | 350.7 | 305.1 | 45.56 | 7.696 | | |
| 8,700.0 | 7,175.0 | 8,545.0 | 6,954.0 | 34.8 | 37.6 | 50.81 | -1,382.9 | -1,380.5 | 349.8 | 301.9 | 47.89 | 7.304 | | |
| 8,800.0 | 7,175.0 | 8,645.0 | 6,954.0 | 36.1 | 38.8 | 50.69 | -1,482.9 | -1,380.5 | 348.9 | 298.6 | 50.24 | 6.944 | | |
| 8,900.0 | 7,175.0 | 8,745.0 | 6,954.0 | 37.5 | 40.0 | 50.57 | -1,582.9 | -1,380.5 | 348.0 | 295.4 | 52.61 | 6.614 | | |
| 9,000.0 | 7,175.0 | 8,845.0 | 6,954.0 | 38.9 | 41.3 | 50.46 | -1,682.9 | -1,380.5 | 347.1 | 292.1 | 55.00 | 6.311 | | |
| 9,100.0 | 7,175.0 | 8,945.0 | 6,954.0 | 40.3 | 42.7 | 50.34 | -1,782.8 | -1,380.5 | 346.2 | 288.8 | 57.41 | 6.031 | | |
| 9,200.0 | 7,175.0 | 9,045.0 | 6,954.0 | 41.8 | 44.0 | 50.21 | -1,882.8 | -1,380.5 | 345.4 | 285.5 | 59.82 | 5.773 | | |
| 9,300.0 | 7,175.0 | 9,144.9 | 6,954.0 | 43.3 | 45.4 | 50.09 | -1,982.8 | -1,380.5 | 344.5 | 282.3 | 62.24 | 5.535 | | |
| 9,400.0 | 7,175.0 | 9,244.9 | 6,954.0 | 44.8 | 46.8 | 49.97 | -2,082.8 | -1,380.5 | 343.6 | 278.9 | 64.67 | 5.313 | | |
| 9,500.0 | 7,175.0 | 9,344.9 | 6,954.0 | 46.3 | 48.3 | 49.85 | -2,182.8 | -1,380.5 | 342.7 | 275.6 | 67.11 | 5.108 | | |
| 9,600.0 | 7,175.0 | 9,444.9 | 6,954.0 | 47.8 | 49.7 | 49.73 | -2,282.8 | -1,380.5 | 341.9 | 272.3 | 69.54 | 4.916 | | |
| 9,700.0 | 7,175.0 | 9,544.9 | 6,954.0 | 49.3 | 51.2 | 49.60 | -2,382.8 | -1,380.5 | 341.0 | 269.0 | 71.98 | 4.738 | | |
| 9,800.0 | 7,175.0 | 9,644.9 | 6,954.0 | 50.9 | 52.7 | 49.48 | -2,482.8 | -1,380.5 | 340.1 | 265.7 | 74.41 | 4.571 | | |
| 9,900.0 | 7,175.0 | 9,744.9 | 6,954.0 | 52.5 | 54.2 | 49.35 | -2,582.8 | -1,380.5 | 339.3 | 262.4 | 76.84 | 4.415 | | |
| 10,000.0 | 7,175.0 | 9,844.9 | 6,954.0 | 54.1 | 55.7 | 49.23 | -2,682.8 | -1,380.5 | 338.4 | 259.1 | 79.27 | 4.269 | | |
| 10,100.0 | 7,175.0 | 9,944.9 | 6,954.0 | 55.6 | 57.3 | 49.10 | -2,782.8 | -1,380.5 | 337.5 | 255.8 | 81.70 | 4.131 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2B-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | | | | |
| 10,200.0 | 7,175.0 | 10,044.9 | 6,954.0 | 57.3 | 58.8 | 48.97 | -2,882.8 | -1,380.5 | 336.7 | 252.6 | 84.12 | 4.002 | | |
| 10,300.0 | 7,175.0 | 10,144.9 | 6,954.0 | 58.9 | 60.4 | 48.85 | -2,982.8 | -1,380.5 | 335.8 | 249.3 | 86.54 | 3.881 | | |
| 10,400.0 | 7,175.0 | 10,244.9 | 6,954.0 | 60.5 | 61.9 | 48.72 | -3,082.8 | -1,380.5 | 335.0 | 246.0 | 88.96 | 3.766 | | |
| 10,500.0 | 7,175.0 | 10,344.9 | 6,954.0 | 62.1 | 63.5 | 48.59 | -3,182.8 | -1,380.5 | 334.1 | 242.8 | 91.36 | 3.657 | | |
| 10,600.0 | 7,175.0 | 10,444.9 | 6,954.0 | 63.7 | 65.1 | 48.46 | -3,282.7 | -1,380.5 | 333.3 | 239.5 | 93.76 | 3.554 | | |
| 10,700.0 | 7,175.0 | 10,544.9 | 6,954.0 | 65.4 | 66.7 | 48.33 | -3,382.7 | -1,380.5 | 332.4 | 236.3 | 96.15 | 3.457 | | |
| 10,800.0 | 7,175.0 | 10,644.9 | 6,954.0 | 67.0 | 68.3 | 48.20 | -3,482.7 | -1,380.5 | 331.6 | 233.0 | 98.54 | 3.365 | | |
| 10,900.0 | 7,175.0 | 10,744.8 | 6,954.0 | 68.7 | 69.9 | 48.07 | -3,582.7 | -1,380.5 | 330.7 | 229.8 | 100.91 | 3.277 | | |
| 11,000.0 | 7,175.0 | 10,844.8 | 6,954.0 | 70.3 | 71.5 | 47.93 | -3,682.7 | -1,380.5 | 329.9 | 226.6 | 103.28 | 3.194 | | |
| 11,100.0 | 7,175.0 | 10,944.8 | 6,954.0 | 72.0 | 73.2 | 47.80 | -3,782.7 | -1,380.5 | 329.0 | 223.4 | 105.64 | 3.115 | | |
| 11,200.0 | 7,175.0 | 11,044.8 | 6,954.0 | 73.7 | 74.8 | 47.67 | -3,882.7 | -1,380.5 | 328.2 | 220.2 | 107.99 | 3.039 | | |
| 11,300.0 | 7,175.0 | 11,144.8 | 6,954.0 | 75.3 | 76.4 | 47.53 | -3,982.7 | -1,380.5 | 327.3 | 217.0 | 110.33 | 2.967 | | |
| 11,400.0 | 7,175.0 | 11,244.8 | 6,954.0 | 77.0 | 78.1 | 47.40 | -4,082.7 | -1,380.5 | 326.5 | 213.8 | 112.66 | 2.898 | | |
| 11,500.0 | 7,175.0 | 11,344.8 | 6,954.0 | 78.7 | 79.7 | 47.26 | -4,182.7 | -1,380.5 | 325.7 | 210.7 | 114.98 | 2.832 | | |
| 11,600.0 | 7,175.0 | 11,444.8 | 6,954.0 | 80.4 | 81.4 | 47.12 | -4,282.7 | -1,380.5 | 324.8 | 207.5 | 117.28 | 2.769 | | |
| 11,700.0 | 7,175.0 | 11,544.8 | 6,954.0 | 82.0 | 83.0 | 46.99 | -4,382.7 | -1,380.5 | 324.0 | 204.4 | 119.58 | 2.709 | | |
| 11,800.0 | 7,175.0 | 11,644.8 | 6,954.0 | 83.7 | 84.7 | 46.85 | -4,482.7 | -1,380.5 | 323.1 | 201.3 | 121.87 | 2.652 | | |
| 11,865.9 | 7,175.0 | 11,708.3 | 6,954.0 | 84.8 | 85.8 | 46.76 | -4,546.1 | -1,380.5 | 322.6 | 199.3 | 123.34 | 2.616 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2D-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.10 | 0.0 | 7.6 | 7.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.10 | 0.0 | 7.6 | 7.6 | 7.3 | 0.24 | 30.911 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.10 | 0.0 | 7.6 | 7.6 | 7.0 | 0.59 | 12.728 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.10 | 0.0 | 7.6 | 7.6 | 6.6 | 0.94 | 8.014 | CC, ES | |
| 400.0 | 400.0 | 400.1 | 400.1 | 0.6 | 0.6 | 168.11 | 0.1 | 7.1 | 8.8 | 7.5 | 1.29 | 6.839 | | |
| 500.0 | 499.8 | 500.4 | 500.4 | 0.8 | 0.8 | 169.35 | 1.1 | 3.8 | 10.6 | 8.9 | 1.64 | 6.438 | | |
| 600.0 | 599.5 | 600.8 | 600.5 | 1.1 | 1.0 | 169.63 | 3.0 | -3.0 | 12.3 | 10.3 | 1.99 | 6.184 | | |
| 700.0 | 698.7 | 701.3 | 700.4 | 1.3 | 1.3 | 169.30 | 5.9 | -13.1 | 14.1 | 11.7 | 2.34 | 6.004 | | |
| 800.0 | 797.5 | 801.8 | 799.9 | 1.6 | 1.5 | 168.57 | 9.8 | -26.6 | 15.8 | 13.1 | 2.70 | 5.863 | | |
| 900.0 | 895.6 | 902.2 | 898.8 | 2.0 | 1.9 | 167.58 | 14.7 | -43.4 | 17.6 | 14.6 | 3.07 | 5.746 | | |
| 1,000.0 | 993.3 | 1,002.2 | 997.0 | 2.4 | 2.2 | 167.34 | 19.9 | -61.4 | 20.6 | 17.1 | 3.45 | 5.959 | | |
| 1,100.0 | 1,090.9 | 1,102.2 | 1,095.2 | 2.8 | 2.6 | 167.23 | 25.0 | -79.5 | 23.6 | 19.7 | 3.83 | 6.150 | | |
| 1,200.0 | 1,188.5 | 1,202.1 | 1,193.4 | 3.2 | 2.9 | 167.14 | 30.2 | -97.5 | 26.6 | 22.4 | 4.22 | 6.302 | | |
| 1,300.0 | 1,286.2 | 1,302.1 | 1,291.5 | 3.6 | 3.3 | 167.07 | 35.4 | -115.5 | 29.6 | 25.0 | 4.60 | 6.427 | | |
| 1,400.0 | 1,383.8 | 1,402.0 | 1,389.7 | 4.0 | 3.6 | 167.01 | 40.6 | -133.6 | 32.6 | 27.6 | 4.99 | 6.531 | | |
| 1,500.0 | 1,481.5 | 1,502.0 | 1,487.9 | 4.4 | 4.0 | 166.96 | 45.8 | -151.6 | 35.6 | 30.2 | 5.38 | 6.618 | | |
| 1,600.0 | 1,579.1 | 1,601.9 | 1,586.1 | 4.8 | 4.4 | 166.92 | 51.0 | -169.6 | 38.6 | 32.8 | 5.77 | 6.693 | | |
| 1,700.0 | 1,676.7 | 1,701.9 | 1,684.3 | 5.3 | 4.8 | 166.89 | 56.2 | -187.6 | 41.6 | 35.5 | 6.16 | 6.758 | | |
| 1,800.0 | 1,774.4 | 1,801.8 | 1,782.4 | 5.7 | 5.1 | 166.86 | 61.4 | -205.7 | 44.6 | 38.1 | 6.55 | 6.815 | | |
| 1,900.0 | 1,872.0 | 1,901.8 | 1,880.6 | 6.1 | 5.5 | 166.83 | 66.6 | -223.7 | 47.6 | 40.7 | 6.94 | 6.865 | | |
| 2,000.0 | 1,969.6 | 2,001.7 | 1,978.8 | 6.5 | 5.9 | 166.81 | 71.8 | -241.7 | 50.6 | 43.3 | 7.33 | 6.909 | | |
| 2,100.0 | 2,067.3 | 2,101.7 | 2,077.0 | 6.9 | 6.2 | 166.79 | 76.9 | -259.8 | 53.6 | 45.9 | 7.72 | 6.948 | | |
| 2,200.0 | 2,164.9 | 2,201.7 | 2,175.2 | 7.3 | 6.6 | 166.77 | 82.1 | -277.8 | 56.6 | 48.5 | 8.11 | 6.983 | | |
| 2,300.0 | 2,262.5 | 2,301.6 | 2,273.3 | 7.8 | 7.0 | 166.75 | 87.3 | -295.8 | 59.7 | 51.1 | 8.50 | 7.015 | | |
| 2,400.0 | 2,360.2 | 2,401.6 | 2,371.5 | 8.2 | 7.4 | 166.74 | 92.5 | -313.8 | 62.7 | 53.8 | 8.90 | 7.044 | | |
| 2,500.0 | 2,457.8 | 2,501.5 | 2,469.7 | 8.6 | 7.7 | 166.72 | 97.7 | -331.9 | 65.7 | 56.4 | 9.29 | 7.070 | | |
| 2,600.0 | 2,555.4 | 2,601.5 | 2,567.9 | 9.0 | 8.1 | 166.71 | 102.9 | -349.9 | 68.7 | 59.0 | 9.68 | 7.094 | | |
| 2,700.0 | 2,653.1 | 2,701.4 | 2,666.0 | 9.5 | 8.5 | 166.70 | 108.1 | -367.9 | 71.7 | 61.6 | 10.07 | 7.117 | | |
| 2,800.0 | 2,750.7 | 2,801.4 | 2,764.2 | 9.9 | 8.8 | 166.69 | 113.3 | -386.0 | 74.7 | 64.2 | 10.47 | 7.137 | | |
| 2,900.0 | 2,848.3 | 2,901.3 | 2,862.4 | 10.3 | 9.2 | 166.68 | 118.5 | -404.0 | 77.7 | 66.8 | 10.86 | 7.156 | | |
| 3,000.0 | 2,946.0 | 3,001.3 | 2,960.6 | 10.7 | 9.6 | 166.67 | 123.7 | -422.0 | 80.7 | 69.5 | 11.25 | 7.173 | | |
| 3,100.0 | 3,043.6 | 3,101.2 | 3,058.8 | 11.1 | 10.0 | 166.66 | 128.8 | -440.1 | 83.7 | 72.1 | 11.64 | 7.189 | | |
| 3,200.0 | 3,141.2 | 3,201.2 | 3,156.9 | 11.6 | 10.3 | 166.65 | 134.0 | -458.1 | 86.7 | 74.7 | 12.04 | 7.204 | | |
| 3,300.0 | 3,238.9 | 3,301.2 | 3,255.1 | 12.0 | 10.7 | 166.65 | 139.2 | -476.1 | 89.7 | 77.3 | 12.43 | 7.219 | | |
| 3,400.0 | 3,336.5 | 3,401.1 | 3,353.3 | 12.4 | 11.1 | 166.64 | 144.4 | -494.1 | 92.7 | 79.9 | 12.82 | 7.232 | | |
| 3,500.0 | 3,434.1 | 3,501.1 | 3,451.5 | 12.8 | 11.5 | 166.63 | 149.6 | -512.2 | 95.7 | 82.5 | 13.22 | 7.244 | | |
| 3,600.0 | 3,531.8 | 3,601.0 | 3,549.6 | 13.3 | 11.8 | 166.63 | 154.8 | -530.2 | 98.8 | 85.1 | 13.61 | 7.256 | | |
| 3,700.0 | 3,629.4 | 3,701.0 | 3,647.8 | 13.7 | 12.2 | 166.62 | 160.0 | -548.2 | 101.8 | 87.8 | 14.00 | 7.267 | | |
| 3,800.0 | 3,727.1 | 3,800.9 | 3,746.0 | 14.1 | 12.6 | 166.62 | 165.2 | -566.3 | 104.8 | 90.4 | 14.40 | 7.277 | | |
| 3,900.0 | 3,824.7 | 3,900.9 | 3,844.2 | 14.5 | 13.0 | 166.61 | 170.4 | -584.3 | 107.8 | 93.0 | 14.79 | 7.287 | | |
| 4,000.0 | 3,922.3 | 4,000.8 | 3,942.4 | 14.9 | 13.3 | 166.61 | 175.6 | -602.3 | 110.8 | 95.6 | 15.18 | 7.296 | | |
| 4,100.0 | 4,020.0 | 4,100.8 | 4,040.5 | 15.4 | 13.7 | 166.60 | 180.7 | -620.3 | 113.8 | 98.2 | 15.58 | 7.305 | | |
| 4,200.0 | 4,117.6 | 4,200.7 | 4,138.7 | 15.8 | 14.1 | 166.60 | 185.9 | -638.4 | 116.8 | 100.8 | 15.97 | 7.313 | | |
| 4,300.0 | 4,215.2 | 4,300.7 | 4,236.9 | 16.2 | 14.5 | 166.59 | 191.1 | -656.4 | 119.8 | 103.4 | 16.36 | 7.321 | | |
| 4,400.0 | 4,312.9 | 4,400.7 | 4,335.1 | 16.6 | 14.8 | 166.59 | 196.3 | -674.4 | 122.8 | 106.1 | 16.76 | 7.329 | | |
| 4,500.0 | 4,410.5 | 4,500.6 | 4,433.3 | 17.1 | 15.2 | 166.59 | 201.5 | -692.5 | 125.8 | 108.7 | 17.15 | 7.336 | | |
| 4,600.0 | 4,508.1 | 4,600.6 | 4,531.4 | 17.5 | 15.6 | 166.58 | 206.7 | -710.5 | 128.8 | 111.3 | 17.55 | 7.343 | | |
| 4,700.0 | 4,605.8 | 4,700.5 | 4,629.6 | 17.9 | 16.0 | 166.58 | 211.9 | -728.5 | 131.8 | 113.9 | 17.94 | 7.349 | | |
| 4,800.0 | 4,703.4 | 4,800.5 | 4,727.8 | 18.3 | 16.3 | 166.58 | 217.1 | -746.5 | 134.8 | 116.5 | 18.33 | 7.355 | | |
| 4,900.0 | 4,801.0 | 4,900.4 | 4,826.0 | 18.7 | 16.7 | 166.57 | 222.3 | -764.6 | 137.9 | 119.1 | 18.73 | 7.361 | | |
| 5,000.0 | 4,898.7 | 5,000.4 | 4,924.1 | 19.2 | 17.1 | 166.57 | 227.5 | -782.6 | 140.9 | 121.7 | 19.12 | 7.367 | | |
| 5,100.0 | 4,996.3 | 5,100.3 | 5,022.3 | 19.6 | 17.5 | 166.57 | 232.6 | -800.6 | 143.9 | 124.4 | 19.51 | 7.372 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2D-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,200.0 | 5,093.9 | 5,200.3 | 5,120.5 | 20.0 | 17.8 | 166.56 | 237.8 | -818.7 | 146.9 | 127.0 | 19.91 | 7.378 | | |
| 5,300.0 | 5,191.6 | 5,300.3 | 5,218.7 | 20.4 | 18.2 | 166.56 | 243.0 | -836.7 | 149.9 | 129.6 | 20.30 | 7.383 | | |
| 5,400.0 | 5,289.2 | 5,400.2 | 5,316.9 | 20.9 | 18.6 | 166.56 | 248.2 | -854.7 | 152.9 | 132.2 | 20.70 | 7.387 | | |
| 5,500.0 | 5,386.8 | 5,500.2 | 5,415.0 | 21.3 | 19.0 | 166.56 | 253.4 | -872.7 | 155.9 | 134.8 | 21.09 | 7.391 | | |
| 5,600.0 | 5,484.9 | 5,597.5 | 5,510.8 | 21.6 | 19.3 | 166.44 | 258.3 | -889.9 | 157.4 | 135.9 | 21.51 | 7.319 | | |
| 5,700.0 | 5,583.5 | 5,692.5 | 5,604.6 | 22.0 | 19.6 | 166.32 | 262.4 | -904.0 | 158.4 | 136.5 | 21.89 | 7.233 | | |
| 5,800.0 | 5,682.7 | 5,787.4 | 5,698.8 | 22.2 | 19.8 | 166.23 | 265.6 | -915.1 | 159.1 | 136.9 | 22.25 | 7.152 | | |
| 5,900.0 | 5,782.3 | 5,882.4 | 5,793.3 | 22.4 | 20.0 | 166.16 | 267.9 | -923.2 | 159.7 | 137.1 | 22.57 | 7.075 | | |
| 6,000.0 | 5,882.1 | 5,977.3 | 5,888.1 | 22.5 | 20.2 | 166.12 | 269.4 | -928.2 | 160.0 | 137.2 | 22.85 | 7.001 | | |
| 6,100.0 | 5,982.1 | 6,072.2 | 5,983.0 | 22.6 | 20.3 | 166.10 | 270.0 | -930.3 | 160.1 | 137.0 | 23.11 | 6.930 | | |
| 6,200.0 | 6,082.1 | 6,171.3 | 6,082.1 | 22.7 | 20.3 | 90.00 | 270.0 | -930.3 | 160.2 | 136.6 | 23.59 | 6.790 | | |
| 6,300.0 | 6,182.1 | 6,271.3 | 6,182.1 | 22.8 | 20.4 | 90.00 | 270.0 | -930.3 | 160.2 | 136.2 | 23.90 | 6.700 | | |
| 6,400.0 | 6,282.1 | 6,371.3 | 6,282.1 | 22.9 | 20.5 | 90.00 | 270.0 | -930.3 | 160.2 | 135.9 | 24.22 | 6.612 | | |
| 6,500.0 | 6,382.1 | 6,471.3 | 6,382.1 | 23.0 | 20.6 | 90.00 | 270.0 | -930.3 | 160.2 | 135.6 | 24.54 | 6.525 | | |
| 6,564.6 | 6,446.7 | 6,535.9 | 6,446.7 | 23.0 | 20.7 | 90.00 | 270.0 | -930.3 | 160.2 | 135.4 | 24.75 | 6.471 | | |
| 6,600.0 | 6,482.1 | 6,571.3 | 6,482.1 | 23.1 | 20.7 | 90.04 | 269.9 | -930.3 | 160.2 | 135.3 | 24.85 | 6.444 | | |
| 6,619.3 | 6,501.3 | 6,590.5 | 6,501.3 | 23.1 | 20.7 | 90.27 | 269.2 | -930.3 | 160.2 | 135.3 | 24.85 | 6.446 | | |
| 6,700.0 | 6,582.1 | 6,669.9 | 6,580.1 | 23.1 | 20.8 | 93.68 | 259.7 | -930.3 | 160.5 | 136.2 | 24.27 | 6.612 | | |
| 6,800.0 | 6,681.8 | 6,764.1 | 6,670.7 | 23.2 | 20.7 | -79.61 | 234.4 | -930.3 | 163.4 | 139.9 | 23.44 | 6.969 | | |
| 6,900.0 | 6,779.1 | 6,855.3 | 6,753.3 | 23.2 | 20.7 | -72.83 | 196.2 | -930.3 | 168.9 | 145.1 | 23.74 | 7.112 | | |
| 7,000.0 | 6,871.1 | 6,943.9 | 6,826.9 | 23.2 | 20.7 | -66.99 | 146.9 | -930.3 | 176.0 | 151.4 | 24.58 | 7.161 | | |
| 7,100.0 | 6,954.8 | 7,030.4 | 6,890.5 | 23.2 | 20.7 | -62.20 | 88.4 | -930.3 | 184.0 | 158.6 | 25.33 | 7.262 | | |
| 7,200.0 | 7,027.8 | 7,115.3 | 6,943.7 | 23.2 | 20.7 | -58.43 | 22.4 | -930.3 | 191.8 | 166.2 | 25.65 | 7.480 | | |
| 7,300.0 | 7,088.0 | 7,200.0 | 6,986.5 | 23.2 | 20.8 | -55.57 | -50.7 | -930.3 | 198.9 | 173.6 | 25.37 | 7.841 | | |
| 7,400.0 | 7,133.3 | 7,281.4 | 7,017.0 | 23.4 | 21.0 | -53.63 | -126.1 | -930.3 | 204.7 | 180.0 | 24.78 | 8.264 | | |
| 7,500.0 | 7,162.5 | 7,363.3 | 7,036.7 | 23.7 | 21.3 | -52.47 | -205.5 | -930.3 | 208.9 | 184.8 | 24.12 | 8.662 | | |
| 7,600.0 | 7,174.7 | 7,444.9 | 7,044.8 | 24.1 | 21.7 | -52.05 | -286.6 | -930.3 | 211.2 | 187.5 | 23.67 | 8.922 | | |
| 7,700.0 | 7,175.0 | 7,541.2 | 7,045.0 | 24.7 | 22.3 | -52.20 | -382.9 | -930.3 | 212.1 | 187.2 | 24.92 | 8.512 | | |
| 7,800.0 | 7,175.0 | 7,641.2 | 7,045.0 | 25.3 | 23.0 | -52.39 | -482.9 | -930.3 | 213.0 | 186.3 | 26.71 | 7.977 | | |
| 7,900.0 | 7,175.0 | 7,741.2 | 7,045.0 | 26.1 | 23.8 | -52.58 | -582.9 | -930.3 | 213.9 | 185.3 | 28.67 | 7.463 | | |
| 8,000.0 | 7,175.0 | 7,841.2 | 7,045.0 | 26.9 | 24.7 | -52.76 | -682.9 | -930.3 | 214.8 | 184.1 | 30.77 | 6.982 | | |
| 8,100.0 | 7,175.0 | 7,941.2 | 7,045.0 | 27.8 | 25.7 | -52.94 | -782.9 | -930.3 | 215.7 | 182.7 | 32.99 | 6.539 | | |
| 8,200.0 | 7,175.0 | 8,041.2 | 7,045.0 | 28.8 | 26.8 | -53.13 | -882.9 | -930.3 | 216.7 | 181.3 | 35.32 | 6.134 | | |
| 8,300.0 | 7,175.0 | 8,141.2 | 7,045.0 | 29.9 | 27.9 | -53.31 | -982.9 | -930.3 | 217.6 | 179.8 | 37.73 | 5.767 | | |
| 8,400.0 | 7,175.0 | 8,241.2 | 7,045.0 | 31.1 | 29.1 | -53.48 | -1,082.9 | -930.3 | 218.5 | 178.3 | 40.21 | 5.434 | | |
| 8,500.0 | 7,175.0 | 8,341.1 | 7,045.0 | 32.3 | 30.4 | -53.66 | -1,182.9 | -930.3 | 219.4 | 176.7 | 42.75 | 5.132 | | |
| 8,600.0 | 7,175.0 | 8,441.1 | 7,045.0 | 33.5 | 31.7 | -53.84 | -1,282.9 | -930.3 | 220.3 | 175.0 | 45.35 | 4.859 | | |
| 8,700.0 | 7,175.0 | 8,541.1 | 7,045.0 | 34.8 | 33.1 | -54.01 | -1,382.9 | -930.3 | 221.2 | 173.3 | 47.99 | 4.610 | | |
| 8,800.0 | 7,175.0 | 8,641.1 | 7,045.0 | 36.1 | 34.5 | -54.19 | -1,482.9 | -930.3 | 222.2 | 171.5 | 50.67 | 4.384 | | |
| 8,900.0 | 7,175.0 | 8,741.1 | 7,045.0 | 37.5 | 35.9 | -54.36 | -1,582.9 | -930.3 | 223.1 | 169.7 | 53.39 | 4.178 | | |
| 9,000.0 | 7,175.0 | 8,841.1 | 7,045.0 | 38.9 | 37.3 | -54.53 | -1,682.9 | -930.3 | 224.0 | 167.9 | 56.15 | 3.990 | | |
| 9,100.0 | 7,175.0 | 8,941.1 | 7,045.0 | 40.3 | 38.8 | -54.70 | -1,782.8 | -930.3 | 225.0 | 166.0 | 58.93 | 3.817 | | |
| 9,200.0 | 7,175.0 | 9,041.1 | 7,045.0 | 41.8 | 40.3 | -54.86 | -1,882.8 | -930.3 | 225.9 | 164.2 | 61.74 | 3.659 | | |
| 9,300.0 | 7,175.0 | 9,141.1 | 7,045.0 | 43.3 | 41.8 | -55.03 | -1,982.8 | -930.3 | 226.8 | 162.3 | 64.57 | 3.513 | | |
| 9,400.0 | 7,175.0 | 9,241.1 | 7,045.0 | 44.8 | 43.4 | -55.19 | -2,082.8 | -930.3 | 227.8 | 160.3 | 67.43 | 3.378 | | |
| 9,500.0 | 7,175.0 | 9,341.1 | 7,045.0 | 46.3 | 44.9 | -55.36 | -2,182.8 | -930.3 | 228.7 | 158.4 | 70.31 | 3.253 | | |
| 9,600.0 | 7,175.0 | 9,441.1 | 7,045.0 | 47.8 | 46.5 | -55.52 | -2,282.8 | -930.3 | 229.6 | 156.4 | 73.21 | 3.137 | | |
| 9,700.0 | 7,175.0 | 9,541.1 | 7,045.0 | 49.3 | 48.1 | -55.68 | -2,382.8 | -930.3 | 230.6 | 154.5 | 76.12 | 3.029 | | |
| 9,800.0 | 7,175.0 | 9,641.1 | 7,045.0 | 50.9 | 49.6 | -55.84 | -2,482.8 | -930.3 | 231.5 | 152.5 | 79.06 | 2.929 | | |
| 9,900.0 | 7,175.0 | 9,741.1 | 7,045.0 | 52.5 | 51.2 | -56.00 | -2,582.8 | -930.3 | 232.5 | 150.5 | 82.00 | 2.835 | | |
| 10,000.0 | 7,175.0 | 9,841.0 | 7,045.0 | 54.1 | 52.9 | -56.15 | -2,682.8 | -930.3 | 233.4 | 148.4 | 84.97 | 2.747 | | |
| 10,100.0 | 7,175.0 | 9,941.0 | 7,045.0 | 55.6 | 54.5 | -56.31 | -2,782.8 | -930.3 | 234.4 | 146.4 | 87.95 | 2.665 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2D-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 10,200.0 | 7,175.0 | 10,041.0 | 7,045.0 | 57.3 | 56.1 | -56.46 | -2,882.8 | -930.3 | 235.3 | 144.4 | 90.94 | 2.588 | | |
| 10,300.0 | 7,175.0 | 10,141.0 | 7,045.0 | 58.9 | 57.7 | -56.62 | -2,982.8 | -930.3 | 236.3 | 142.3 | 93.95 | 2.515 | | |
| 10,400.0 | 7,175.0 | 10,241.0 | 7,045.0 | 60.5 | 59.4 | -56.77 | -3,082.8 | -930.3 | 237.2 | 140.3 | 96.97 | 2.446 | | |
| 10,500.0 | 7,175.0 | 10,341.0 | 7,045.0 | 62.1 | 61.0 | -56.92 | -3,182.8 | -930.3 | 238.2 | 138.2 | 100.00 | 2.382 | | |
| 10,600.0 | 7,175.0 | 10,441.0 | 7,045.0 | 63.7 | 62.7 | -57.07 | -3,282.7 | -930.3 | 239.1 | 136.1 | 103.05 | 2.321 | | |
| 10,700.0 | 7,175.0 | 10,541.0 | 7,045.0 | 65.4 | 64.4 | -57.22 | -3,382.7 | -930.3 | 240.1 | 134.0 | 106.10 | 2.263 | | |
| 10,800.0 | 7,175.0 | 10,641.0 | 7,045.0 | 67.0 | 66.0 | -57.36 | -3,482.7 | -930.3 | 241.1 | 131.9 | 109.17 | 2.208 | | |
| 10,900.0 | 7,175.0 | 10,741.0 | 7,045.0 | 68.7 | 67.7 | -57.51 | -3,582.7 | -930.3 | 242.0 | 129.8 | 112.24 | 2.156 | | |
| 11,000.0 | 7,175.0 | 10,841.0 | 7,045.0 | 70.3 | 69.4 | -57.65 | -3,682.7 | -930.3 | 243.0 | 127.7 | 115.33 | 2.107 | | |
| 11,100.0 | 7,175.0 | 10,941.0 | 7,045.0 | 72.0 | 71.0 | -57.80 | -3,782.7 | -930.3 | 243.9 | 125.5 | 118.42 | 2.060 | | |
| 11,200.0 | 7,175.0 | 11,041.0 | 7,045.0 | 73.7 | 72.7 | -57.94 | -3,882.7 | -930.3 | 244.9 | 123.4 | 121.53 | 2.015 | | |
| 11,300.0 | 7,175.0 | 11,141.0 | 7,045.0 | 75.3 | 74.4 | -58.08 | -3,982.7 | -930.3 | 245.9 | 121.2 | 124.64 | 1.973 | | |
| 11,400.0 | 7,175.0 | 11,241.0 | 7,045.0 | 77.0 | 76.1 | -58.22 | -4,082.7 | -930.3 | 246.9 | 119.1 | 127.77 | 1.932 | | |
| 11,500.0 | 7,175.0 | 11,341.0 | 7,045.0 | 78.7 | 77.8 | -58.36 | -4,182.7 | -930.3 | 247.8 | 116.9 | 130.90 | 1.893 | | |
| 11,600.0 | 7,175.0 | 11,440.9 | 7,045.0 | 80.4 | 79.5 | -58.50 | -4,282.7 | -930.3 | 248.8 | 114.8 | 134.04 | 1.856 | | |
| 11,700.0 | 7,175.0 | 11,540.9 | 7,045.0 | 82.0 | 81.2 | -58.63 | -4,382.7 | -930.3 | 249.8 | 112.6 | 137.19 | 1.821 | | |
| 11,800.0 | 7,175.0 | 11,640.9 | 7,045.0 | 83.7 | 82.9 | -58.77 | -4,482.7 | -930.3 | 250.7 | 110.4 | 140.34 | 1.787 | | |
| 11,865.9 | 7,175.0 | 11,706.9 | 7,045.0 | 84.8 | 84.0 | -58.86 | -4,548.6 | -930.3 | 251.4 | 109.0 | 142.43 | 1.765 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.10 | 0.0 | 15.1 | 15.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.10 | 0.0 | 15.1 | 15.1 | 14.9 | 0.24 | 61.821 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.10 | 0.0 | 15.1 | 15.1 | 14.5 | 0.59 | 25.456 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.10 | 0.0 | 15.1 | 15.1 | 14.2 | 0.94 | 16.028 CC, ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | 167.60 | 0.0 | 15.1 | 16.8 | 15.5 | 1.29 | 13.016 | | |
| 500.0 | 499.8 | 500.2 | 500.2 | 0.8 | 0.8 | 169.87 | 0.3 | 14.3 | 21.1 | 19.5 | 1.64 | 12.875 | | |
| 600.0 | 599.5 | 600.4 | 600.4 | 1.1 | 1.0 | 171.50 | 1.2 | 11.8 | 27.2 | 25.2 | 1.99 | 13.687 | | |
| 700.0 | 698.7 | 700.6 | 700.5 | 1.3 | 1.2 | 172.57 | 2.7 | 7.7 | 35.1 | 32.7 | 2.33 | 15.024 | | |
| 800.0 | 797.5 | 800.8 | 800.5 | 1.6 | 1.4 | 173.25 | 4.9 | 2.0 | 44.7 | 42.0 | 2.68 | 16.682 | | |
| 900.0 | 895.6 | 901.0 | 900.4 | 2.0 | 1.6 | 173.67 | 7.7 | -5.4 | 56.1 | 53.0 | 3.02 | 18.550 | | |
| 1,000.0 | 993.3 | 1,001.4 | 1,000.3 | 2.4 | 1.8 | 173.86 | 11.0 | -14.4 | 68.2 | 64.8 | 3.38 | 20.208 | | |
| 1,100.0 | 1,090.9 | 1,102.1 | 1,100.3 | 2.8 | 2.1 | 173.72 | 15.0 | -25.1 | 78.8 | 75.0 | 3.74 | 21.088 | | |
| 1,200.0 | 1,188.5 | 1,203.1 | 1,200.5 | 3.2 | 2.3 | 173.36 | 19.7 | -37.5 | 87.6 | 83.5 | 4.10 | 21.372 | | |
| 1,300.0 | 1,286.2 | 1,304.4 | 1,300.7 | 3.6 | 2.6 | 172.81 | 25.0 | -51.6 | 94.8 | 90.3 | 4.47 | 21.197 | | |
| 1,400.0 | 1,383.8 | 1,404.8 | 1,399.7 | 4.0 | 2.9 | 172.15 | 30.7 | -66.8 | 100.6 | 95.7 | 4.85 | 20.757 | | |
| 1,500.0 | 1,481.5 | 1,504.6 | 1,498.2 | 4.4 | 3.2 | 171.55 | 36.4 | -82.0 | 106.3 | 101.1 | 5.22 | 20.353 | | |
| 1,600.0 | 1,579.1 | 1,604.4 | 1,596.7 | 4.8 | 3.6 | 171.02 | 42.1 | -97.3 | 112.1 | 106.5 | 5.61 | 19.992 | | |
| 1,700.0 | 1,676.7 | 1,704.3 | 1,695.2 | 5.3 | 3.9 | 170.53 | 47.8 | -112.5 | 117.9 | 111.9 | 5.99 | 19.668 | | |
| 1,800.0 | 1,774.4 | 1,804.1 | 1,793.7 | 5.7 | 4.2 | 170.09 | 53.5 | -127.7 | 123.6 | 117.2 | 6.38 | 19.375 | | |
| 1,900.0 | 1,872.0 | 1,903.9 | 1,892.2 | 6.1 | 4.5 | 169.69 | 59.2 | -143.0 | 129.4 | 122.6 | 6.77 | 19.108 | | |
| 2,000.0 | 1,969.6 | 2,003.7 | 1,990.7 | 6.5 | 4.8 | 169.33 | 64.9 | -158.2 | 135.2 | 128.0 | 7.17 | 18.865 | | |
| 2,100.0 | 2,067.3 | 2,103.6 | 2,089.2 | 6.9 | 5.2 | 168.99 | 70.6 | -173.4 | 141.0 | 133.4 | 7.56 | 18.642 | | |
| 2,200.0 | 2,164.9 | 2,203.4 | 2,187.7 | 7.3 | 5.5 | 168.68 | 76.3 | -188.6 | 146.8 | 138.8 | 7.96 | 18.437 | | |
| 2,300.0 | 2,262.5 | 2,303.2 | 2,286.2 | 7.8 | 5.8 | 168.40 | 82.0 | -203.9 | 152.6 | 144.2 | 8.36 | 18.247 | | |
| 2,400.0 | 2,360.2 | 2,403.1 | 2,384.6 | 8.2 | 6.1 | 168.13 | 87.7 | -219.1 | 158.4 | 149.6 | 8.76 | 18.072 | | |
| 2,500.0 | 2,457.8 | 2,502.9 | 2,483.1 | 8.6 | 6.5 | 167.89 | 93.4 | -234.3 | 164.2 | 155.0 | 9.17 | 17.909 | | |
| 2,600.0 | 2,555.4 | 2,602.7 | 2,581.6 | 9.0 | 6.8 | 167.66 | 99.2 | -249.5 | 170.0 | 160.4 | 9.57 | 17.757 | | |
| 2,700.0 | 2,653.1 | 2,702.5 | 2,680.1 | 9.5 | 7.1 | 167.45 | 104.9 | -264.8 | 175.8 | 165.8 | 9.98 | 17.616 | | |
| 2,800.0 | 2,750.7 | 2,802.4 | 2,778.6 | 9.9 | 7.5 | 167.25 | 110.6 | -280.0 | 181.6 | 171.2 | 10.39 | 17.484 | | |
| 2,900.0 | 2,848.3 | 2,902.2 | 2,877.1 | 10.3 | 7.8 | 167.06 | 116.3 | -295.2 | 187.4 | 176.6 | 10.80 | 17.360 | | |
| 3,000.0 | 2,946.0 | 3,002.0 | 2,975.6 | 10.7 | 8.1 | 166.88 | 122.0 | -310.5 | 193.2 | 182.0 | 11.21 | 17.243 | | |
| 3,100.0 | 3,043.6 | 3,101.9 | 3,074.1 | 11.1 | 8.5 | 166.71 | 127.7 | -325.7 | 199.1 | 187.4 | 11.62 | 17.134 | | |
| 3,200.0 | 3,141.2 | 3,201.7 | 3,172.6 | 11.6 | 8.8 | 166.56 | 133.4 | -340.9 | 204.9 | 192.8 | 12.03 | 17.031 | | |
| 3,300.0 | 3,238.9 | 3,301.5 | 3,271.1 | 12.0 | 9.1 | 166.41 | 139.1 | -356.1 | 210.7 | 198.3 | 12.44 | 16.934 | | |
| 3,400.0 | 3,336.5 | 3,401.3 | 3,369.6 | 12.4 | 9.5 | 166.27 | 144.8 | -371.4 | 216.5 | 203.7 | 12.86 | 16.842 | | |
| 3,500.0 | 3,434.1 | 3,501.2 | 3,468.1 | 12.8 | 9.8 | 166.14 | 150.5 | -386.6 | 222.3 | 209.1 | 13.27 | 16.755 | | |
| 3,600.0 | 3,531.8 | 3,601.0 | 3,566.6 | 13.3 | 10.1 | 166.01 | 156.2 | -401.8 | 228.2 | 214.5 | 13.69 | 16.673 | | |
| 3,700.0 | 3,629.4 | 3,700.8 | 3,665.1 | 13.7 | 10.5 | 165.89 | 161.9 | -417.0 | 234.0 | 219.9 | 14.10 | 16.594 | | |
| 3,800.0 | 3,727.1 | 3,800.7 | 3,763.6 | 14.1 | 10.8 | 165.78 | 167.6 | -432.3 | 239.8 | 225.3 | 14.52 | 16.520 | | |
| 3,900.0 | 3,824.7 | 3,900.5 | 3,862.1 | 14.5 | 11.1 | 165.67 | 173.3 | -447.5 | 245.6 | 230.7 | 14.93 | 16.449 | | |
| 4,000.0 | 3,922.3 | 4,000.3 | 3,960.6 | 14.9 | 11.5 | 165.57 | 179.0 | -462.7 | 251.5 | 236.1 | 15.35 | 16.382 | | |
| 4,100.0 | 4,020.0 | 4,100.1 | 4,059.1 | 15.4 | 11.8 | 165.47 | 184.7 | -478.0 | 257.3 | 241.5 | 15.77 | 16.318 | | |
| 4,200.0 | 4,117.6 | 4,200.0 | 4,157.6 | 15.8 | 12.1 | 165.37 | 190.5 | -493.2 | 263.1 | 247.0 | 16.19 | 16.256 | | |
| 4,300.0 | 4,215.2 | 4,299.8 | 4,256.1 | 16.2 | 12.5 | 165.28 | 196.2 | -508.4 | 269.0 | 252.4 | 16.61 | 16.198 | | |
| 4,400.0 | 4,312.9 | 4,399.6 | 4,354.6 | 16.6 | 12.8 | 165.20 | 201.9 | -523.6 | 274.8 | 257.8 | 17.02 | 16.142 | | |
| 4,500.0 | 4,410.5 | 4,499.5 | 4,453.1 | 17.1 | 13.1 | 165.11 | 207.6 | -538.9 | 280.6 | 263.2 | 17.44 | 16.088 | | |
| 4,600.0 | 4,508.1 | 4,599.3 | 4,551.6 | 17.5 | 13.5 | 165.03 | 213.3 | -554.1 | 286.5 | 268.6 | 17.86 | 16.036 | | |
| 4,700.0 | 4,605.8 | 4,699.1 | 4,650.0 | 17.9 | 13.8 | 164.96 | 219.0 | -569.3 | 292.3 | 274.0 | 18.28 | 15.987 | | |
| 4,800.0 | 4,703.4 | 4,799.0 | 4,748.5 | 18.3 | 14.1 | 164.88 | 224.7 | -584.5 | 298.1 | 279.4 | 18.70 | 15.940 | | |
| 4,900.0 | 4,801.0 | 4,898.8 | 4,847.0 | 18.7 | 14.5 | 164.81 | 230.4 | -599.8 | 304.0 | 284.8 | 19.12 | 15.894 | | |
| 5,000.0 | 4,898.7 | 4,998.6 | 4,945.5 | 19.2 | 14.8 | 164.74 | 236.1 | -615.0 | 309.8 | 290.3 | 19.54 | 15.851 | | |
| 5,100.0 | 4,996.3 | 5,098.4 | 5,044.0 | 19.6 | 15.1 | 164.68 | 241.8 | -630.2 | 315.6 | 295.7 | 19.97 | 15.808 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 5,200.0 | 5,093.9 | 5,194.5 | 5,138.8 | 20.0 | 15.5 | 164.65 | 247.1 | -644.4 | 321.9 | 301.6 | 20.37 | 15.805 | | |
| 5,300.0 | 5,191.6 | 5,289.2 | 5,232.6 | 20.4 | 15.7 | 164.72 | 251.9 | -657.1 | 329.7 | 309.0 | 20.74 | 15.898 | | |
| 5,400.0 | 5,289.2 | 5,383.6 | 5,326.3 | 20.9 | 16.0 | 164.89 | 256.0 | -668.2 | 339.0 | 317.9 | 21.08 | 16.081 | | |
| 5,500.0 | 5,386.8 | 5,477.7 | 5,419.8 | 21.3 | 16.2 | 165.14 | 259.6 | -677.8 | 349.8 | 328.4 | 21.40 | 16.350 | | |
| 5,600.0 | 5,484.9 | 5,571.7 | 5,513.4 | 21.6 | 16.4 | 165.44 | 262.7 | -686.0 | 360.3 | 338.6 | 21.70 | 16.602 | | |
| 5,700.0 | 5,583.5 | 5,665.8 | 5,607.2 | 22.0 | 16.6 | 165.68 | 265.2 | -692.8 | 369.0 | 347.0 | 22.00 | 16.770 | | |
| 5,800.0 | 5,682.7 | 5,759.8 | 5,701.1 | 22.2 | 16.8 | 165.86 | 267.2 | -698.1 | 375.8 | 353.5 | 22.29 | 16.860 | | |
| 5,900.0 | 5,782.3 | 5,853.9 | 5,795.0 | 22.4 | 16.9 | 165.99 | 268.7 | -702.0 | 380.7 | 358.2 | 22.56 | 16.875 | | |
| 6,000.0 | 5,882.1 | 5,947.9 | 5,889.1 | 22.5 | 17.0 | 166.07 | 269.6 | -704.4 | 383.8 | 361.0 | 22.82 | 16.818 | | |
| 6,100.0 | 5,982.1 | 6,042.0 | 5,983.1 | 22.6 | 17.2 | 166.10 | 270.0 | -705.4 | 385.1 | 362.0 | 23.07 | 16.691 | | |
| 6,200.0 | 6,082.1 | 6,141.0 | 6,082.1 | 22.7 | 17.3 | 90.00 | 270.0 | -705.4 | 385.1 | 361.6 | 23.53 | 16.367 | | |
| 6,300.0 | 6,182.1 | 6,241.0 | 6,182.1 | 22.8 | 17.4 | 90.00 | 270.0 | -705.4 | 385.1 | 361.3 | 23.85 | 16.148 | | |
| 6,400.0 | 6,282.1 | 6,341.0 | 6,282.1 | 22.9 | 17.5 | 90.00 | 270.0 | -705.4 | 385.1 | 360.9 | 24.17 | 15.935 | | |
| 6,466.3 | 6,348.4 | 6,407.3 | 6,348.4 | 22.9 | 17.5 | 90.00 | 270.0 | -705.4 | 385.1 | 360.7 | 24.38 | 15.796 | | |
| 6,500.0 | 6,382.1 | 6,441.0 | 6,382.1 | 23.0 | 17.6 | 90.00 | 270.0 | -705.4 | 385.1 | 360.6 | 24.49 | 15.727 | | |
| 6,526.3 | 6,408.4 | 6,467.3 | 6,408.4 | 23.0 | 17.6 | 90.10 | 269.3 | -705.4 | 385.1 | 360.6 | 24.54 | 15.696 | | |
| 6,600.0 | 6,482.1 | 6,539.9 | 6,480.5 | 23.1 | 17.6 | 91.30 | 261.3 | -705.4 | 385.2 | 360.8 | 24.44 | 15.761 | | |
| 6,700.0 | 6,582.1 | 6,633.3 | 6,570.7 | 23.1 | 17.6 | 94.80 | 237.7 | -705.4 | 386.6 | 362.7 | 23.97 | 16.128 | | |
| 6,800.0 | 6,681.8 | 6,719.2 | 6,649.4 | 23.2 | 17.6 | -81.05 | 203.3 | -705.4 | 391.3 | 367.8 | 23.49 | 16.658 | | |
| 6,900.0 | 6,779.1 | 6,800.0 | 6,717.9 | 23.2 | 17.5 | -76.58 | 160.5 | -705.4 | 398.7 | 375.1 | 23.53 | 16.943 | | |
| 7,000.0 | 6,871.1 | 6,880.8 | 6,779.7 | 23.2 | 17.5 | -72.46 | 108.6 | -705.4 | 407.6 | 383.7 | 23.92 | 17.038 | | |
| 7,100.0 | 6,954.8 | 6,957.9 | 6,831.3 | 23.2 | 17.5 | -68.95 | 51.3 | -705.4 | 417.2 | 392.8 | 24.42 | 17.084 | | |
| 7,200.0 | 7,027.8 | 7,033.4 | 6,873.9 | 23.2 | 17.6 | -66.05 | -10.8 | -705.4 | 426.6 | 401.9 | 24.74 | 17.245 | | |
| 7,300.0 | 7,088.0 | 7,107.5 | 6,907.5 | 23.2 | 17.8 | -63.76 | -76.9 | -705.4 | 435.0 | 410.0 | 25.00 | 17.404 | | |
| 7,400.0 | 7,133.3 | 7,180.7 | 6,932.0 | 23.4 | 18.0 | -62.09 | -145.8 | -705.4 | 441.9 | 416.9 | 25.05 | 17.641 | | |
| 7,500.0 | 7,162.5 | 7,250.0 | 6,947.0 | 23.7 | 18.3 | -61.05 | -213.4 | -705.4 | 446.8 | 421.8 | 25.03 | 17.849 | | |
| 7,600.0 | 7,174.7 | 7,325.5 | 6,953.8 | 24.1 | 18.8 | -60.58 | -288.5 | -705.4 | 449.5 | 424.3 | 25.17 | 17.857 | | |
| 7,700.0 | 7,175.0 | 7,419.9 | 6,954.0 | 24.7 | 19.4 | -60.62 | -382.9 | -705.4 | 450.5 | 423.9 | 26.59 | 16.942 | | |
| 7,800.0 | 7,175.0 | 7,519.9 | 6,954.0 | 25.3 | 20.2 | -60.69 | -482.9 | -705.4 | 451.5 | 423.0 | 28.51 | 15.838 | | |
| 7,900.0 | 7,175.0 | 7,619.9 | 6,954.0 | 26.1 | 21.1 | -60.76 | -582.9 | -705.4 | 452.5 | 421.9 | 30.62 | 14.780 | | |
| 8,000.0 | 7,175.0 | 7,719.9 | 6,954.0 | 26.9 | 22.2 | -60.83 | -682.9 | -705.4 | 453.5 | 420.6 | 32.88 | 13.792 | | |
| 8,100.0 | 7,175.0 | 7,819.9 | 6,954.0 | 27.8 | 23.3 | -60.90 | -782.9 | -705.4 | 454.5 | 419.2 | 35.27 | 12.885 | | |
| 8,200.0 | 7,175.0 | 7,919.9 | 6,954.0 | 28.8 | 24.5 | -60.97 | -882.9 | -705.4 | 455.5 | 417.7 | 37.77 | 12.060 | | |
| 8,300.0 | 7,175.0 | 8,019.8 | 6,954.0 | 29.9 | 25.7 | -61.04 | -982.9 | -705.4 | 456.5 | 416.1 | 40.35 | 11.313 | | |
| 8,400.0 | 7,175.0 | 8,119.8 | 6,954.0 | 31.1 | 27.0 | -61.11 | -1,082.9 | -705.4 | 457.5 | 414.5 | 43.00 | 10.639 | | |
| 8,500.0 | 7,175.0 | 8,219.8 | 6,954.0 | 32.3 | 28.4 | -61.18 | -1,182.9 | -705.4 | 458.5 | 412.8 | 45.71 | 10.030 | | |
| 8,600.0 | 7,175.0 | 8,319.8 | 6,954.0 | 33.5 | 29.8 | -61.25 | -1,282.9 | -705.4 | 459.5 | 411.0 | 48.47 | 9.479 | | |
| 8,700.0 | 7,175.0 | 8,419.8 | 6,954.0 | 34.8 | 31.2 | -61.32 | -1,382.9 | -705.4 | 460.5 | 409.2 | 51.28 | 8.980 | | |
| 8,800.0 | 7,175.0 | 8,519.8 | 6,954.0 | 36.1 | 32.7 | -61.39 | -1,482.9 | -705.4 | 461.5 | 407.4 | 54.12 | 8.527 | | |
| 8,900.0 | 7,175.0 | 8,619.8 | 6,954.0 | 37.5 | 34.2 | -61.45 | -1,582.9 | -705.4 | 462.5 | 405.5 | 56.99 | 8.115 | | |
| 9,000.0 | 7,175.0 | 8,719.8 | 6,954.0 | 38.9 | 35.7 | -61.52 | -1,682.9 | -705.4 | 463.5 | 403.6 | 59.89 | 7.739 | | |
| 9,100.0 | 7,175.0 | 8,819.8 | 6,954.0 | 40.3 | 37.3 | -61.59 | -1,782.8 | -705.4 | 464.5 | 401.7 | 62.81 | 7.395 | | |
| 9,200.0 | 7,175.0 | 8,919.8 | 6,954.0 | 41.8 | 38.8 | -61.65 | -1,882.8 | -705.4 | 465.5 | 399.7 | 65.76 | 7.079 | | |
| 9,300.0 | 7,175.0 | 9,019.8 | 6,954.0 | 43.3 | 40.4 | -61.72 | -1,982.8 | -705.4 | 466.5 | 397.8 | 68.73 | 6.788 | | |
| 9,400.0 | 7,175.0 | 9,119.8 | 6,954.0 | 44.8 | 42.0 | -61.79 | -2,082.8 | -705.4 | 467.5 | 395.8 | 71.71 | 6.520 | | |
| 9,500.0 | 7,175.0 | 9,219.8 | 6,954.0 | 46.3 | 43.6 | -61.85 | -2,182.8 | -705.4 | 468.5 | 393.8 | 74.71 | 6.271 | | |
| 9,600.0 | 7,175.0 | 9,319.8 | 6,954.0 | 47.8 | 45.2 | -61.92 | -2,282.8 | -705.4 | 469.5 | 391.8 | 77.72 | 6.041 | | |
| 9,700.0 | 7,175.0 | 9,419.8 | 6,954.0 | 49.3 | 46.8 | -61.98 | -2,382.8 | -705.4 | 470.5 | 389.8 | 80.74 | 5.827 | | |
| 9,800.0 | 7,175.0 | 9,519.8 | 6,954.0 | 50.9 | 48.5 | -62.05 | -2,482.8 | -705.4 | 471.5 | 387.7 | 83.78 | 5.628 | | |
| 9,900.0 | 7,175.0 | 9,619.7 | 6,954.0 | 52.5 | 50.1 | -62.11 | -2,582.8 | -705.4 | 472.5 | 385.7 | 86.83 | 5.442 | | |
| 10,000.0 | 7,175.0 | 9,719.7 | 6,954.0 | 54.1 | 51.7 | -62.18 | -2,682.8 | -705.4 | 473.5 | 383.7 | 89.89 | 5.268 | | |
| 10,100.0 | 7,175.0 | 9,819.7 | 6,954.0 | 55.6 | 53.4 | -62.24 | -2,782.8 | -705.4 | 474.6 | 381.6 | 92.96 | 5.105 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2E-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 10,200.0 | 7,175.0 | 9,919.7 | 6,954.0 | 57.3 | 55.1 | -62.31 | -2,882.8 | -705.4 | 475.6 | 379.5 | 96.04 | 4.952 | | |
| 10,300.0 | 7,175.0 | 10,019.7 | 6,954.0 | 58.9 | 56.7 | -62.37 | -2,982.8 | -705.4 | 476.6 | 377.5 | 99.12 | 4.808 | | |
| 10,400.0 | 7,175.0 | 10,119.7 | 6,954.0 | 60.5 | 58.4 | -62.43 | -3,082.8 | -705.4 | 477.6 | 375.4 | 102.22 | 4.672 | | |
| 10,500.0 | 7,175.0 | 10,219.7 | 6,954.0 | 62.1 | 60.1 | -62.50 | -3,182.8 | -705.4 | 478.6 | 373.3 | 105.32 | 4.544 | | |
| 10,600.0 | 7,175.0 | 10,319.7 | 6,954.0 | 63.7 | 61.7 | -62.56 | -3,282.7 | -705.4 | 479.6 | 371.2 | 108.43 | 4.423 | | |
| 10,700.0 | 7,175.0 | 10,419.7 | 6,954.0 | 65.4 | 63.4 | -62.62 | -3,382.7 | -705.4 | 480.6 | 369.1 | 111.54 | 4.309 | | |
| 10,800.0 | 7,175.0 | 10,519.7 | 6,954.0 | 67.0 | 65.1 | -62.69 | -3,482.7 | -705.4 | 481.6 | 367.0 | 114.66 | 4.201 | | |
| 10,900.0 | 7,175.0 | 10,619.7 | 6,954.0 | 68.7 | 66.8 | -62.75 | -3,582.7 | -705.4 | 482.7 | 364.9 | 117.79 | 4.098 | | |
| 11,000.0 | 7,175.0 | 10,719.7 | 6,954.0 | 70.3 | 68.5 | -62.81 | -3,682.7 | -705.4 | 483.7 | 362.8 | 120.92 | 4.000 | | |
| 11,100.0 | 7,175.0 | 10,819.7 | 6,954.0 | 72.0 | 70.2 | -62.87 | -3,782.7 | -705.4 | 484.7 | 360.6 | 124.06 | 3.907 | | |
| 11,200.0 | 7,175.0 | 10,919.7 | 6,954.0 | 73.7 | 71.9 | -62.93 | -3,882.7 | -705.4 | 485.7 | 358.5 | 127.21 | 3.818 | | |
| 11,300.0 | 7,175.0 | 11,019.7 | 6,954.0 | 75.3 | 73.6 | -62.99 | -3,982.7 | -705.4 | 486.7 | 356.4 | 130.36 | 3.734 | | |
| 11,400.0 | 7,175.0 | 11,119.6 | 6,954.0 | 77.0 | 75.3 | -63.06 | -4,082.7 | -705.4 | 487.7 | 354.2 | 133.51 | 3.653 | | |
| 11,500.0 | 7,175.0 | 11,219.6 | 6,954.0 | 78.7 | 77.0 | -63.12 | -4,182.7 | -705.4 | 488.8 | 352.1 | 136.67 | 3.576 | | |
| 11,600.0 | 7,175.0 | 11,319.6 | 6,954.0 | 80.4 | 78.7 | -63.18 | -4,282.7 | -705.3 | 489.8 | 349.9 | 139.84 | 3.503 | | |
| 11,700.0 | 7,175.0 | 11,419.6 | 6,954.0 | 82.0 | 80.4 | -63.24 | -4,382.7 | -705.3 | 490.8 | 347.8 | 143.01 | 3.432 | | |
| 11,800.0 | 7,175.0 | 11,519.6 | 6,954.0 | 83.7 | 82.1 | -63.30 | -4,482.7 | -705.3 | 491.8 | 345.6 | 146.18 | 3.364 | | |
| 11,865.9 | 7,175.0 | 11,585.6 | 6,954.0 | 84.8 | 83.3 | -63.34 | -4,548.6 | -705.3 | 492.5 | 344.2 | 148.27 | 3.321 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 90.10 | 0.0 | 22.4 | 22.4 | | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 90.10 | 0.0 | 22.4 | 22.4 | 22.1 | 0.25 | 90.938 | | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 90.10 | 0.0 | 22.4 | 22.4 | 21.8 | 0.60 | 37.602 | | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | 90.10 | 0.0 | 22.4 | 22.4 | 21.4 | 0.94 | 23.701 | CC, ES | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.6 | 0.6 | 167.17 | 0.0 | 22.4 | 24.1 | 22.8 | 1.29 | 18.622 | | | |
| 500.0 | 499.8 | 501.1 | 501.1 | 0.8 | 0.8 | 169.25 | 0.1 | 22.2 | 29.0 | 27.4 | 1.64 | 17.670 | | | |
| 600.0 | 599.5 | 601.3 | 601.3 | 1.1 | 1.0 | 170.63 | 0.9 | 20.6 | 36.0 | 34.0 | 1.99 | 18.091 | | | |
| 700.0 | 698.7 | 701.6 | 701.5 | 1.3 | 1.2 | 171.35 | 2.6 | 17.5 | 44.8 | 42.5 | 2.34 | 19.181 | | | |
| 800.0 | 797.5 | 801.8 | 801.6 | 1.6 | 1.4 | 171.64 | 5.1 | 12.9 | 55.5 | 52.8 | 2.68 | 20.671 | | | |
| 900.0 | 895.6 | 902.0 | 901.6 | 2.0 | 1.6 | 171.67 | 8.4 | 6.7 | 68.0 | 64.9 | 3.03 | 22.414 | | | |
| 1,000.0 | 993.3 | 1,002.4 | 1,001.5 | 2.4 | 1.8 | 171.49 | 12.5 | -1.1 | 81.3 | 77.9 | 3.39 | 23.962 | | | |
| 1,100.0 | 1,090.9 | 1,103.1 | 1,101.6 | 2.8 | 2.0 | 170.96 | 17.6 | -10.4 | 93.1 | 89.3 | 3.76 | 24.742 | | | |
| 1,200.0 | 1,188.5 | 1,202.7 | 1,200.6 | 3.2 | 2.3 | 170.31 | 23.0 | -20.5 | 103.9 | 99.8 | 4.14 | 25.114 | | | |
| 1,300.0 | 1,286.2 | 1,302.1 | 1,299.3 | 3.6 | 2.5 | 169.77 | 28.5 | -30.7 | 114.8 | 110.3 | 4.52 | 25.405 | | | |
| 1,400.0 | 1,383.8 | 1,401.5 | 1,398.1 | 4.0 | 2.7 | 169.33 | 33.9 | -40.9 | 125.6 | 120.7 | 4.90 | 25.637 | | | |
| 1,500.0 | 1,481.5 | 1,500.9 | 1,496.8 | 4.4 | 3.0 | 168.96 | 39.4 | -51.1 | 136.5 | 131.2 | 5.28 | 25.824 | | | |
| 1,600.0 | 1,579.1 | 1,600.3 | 1,595.5 | 4.8 | 3.3 | 168.65 | 44.9 | -61.2 | 147.3 | 141.6 | 5.67 | 25.977 | | | |
| 1,700.0 | 1,676.7 | 1,699.7 | 1,694.3 | 5.3 | 3.5 | 168.38 | 50.3 | -71.4 | 158.2 | 152.1 | 6.06 | 26.103 | | | |
| 1,800.0 | 1,774.4 | 1,799.1 | 1,793.0 | 5.7 | 3.8 | 168.14 | 55.8 | -81.6 | 169.0 | 162.6 | 6.45 | 26.209 | | | |
| 1,900.0 | 1,872.0 | 1,898.5 | 1,891.7 | 6.1 | 4.0 | 167.93 | 61.2 | -91.7 | 179.9 | 173.0 | 6.84 | 26.298 | | | |
| 2,000.0 | 1,969.6 | 1,997.9 | 1,990.5 | 6.5 | 4.3 | 167.74 | 66.7 | -101.9 | 190.7 | 183.5 | 7.23 | 26.374 | | | |
| 2,100.0 | 2,067.3 | 2,097.3 | 2,089.2 | 6.9 | 4.5 | 167.58 | 72.2 | -112.1 | 201.6 | 194.0 | 7.63 | 26.439 | | | |
| 2,200.0 | 2,164.9 | 2,196.7 | 2,187.9 | 7.3 | 4.8 | 167.43 | 77.6 | -122.2 | 212.5 | 204.5 | 8.02 | 26.495 | | | |
| 2,300.0 | 2,262.5 | 2,296.1 | 2,286.7 | 7.8 | 5.1 | 167.30 | 83.1 | -132.4 | 223.3 | 214.9 | 8.41 | 26.543 | | | |
| 2,400.0 | 2,360.2 | 2,395.5 | 2,385.4 | 8.2 | 5.3 | 167.18 | 88.5 | -142.6 | 234.2 | 225.4 | 8.81 | 26.586 | | | |
| 2,500.0 | 2,457.8 | 2,495.0 | 2,484.1 | 8.6 | 5.6 | 167.07 | 94.0 | -152.7 | 245.1 | 235.9 | 9.21 | 26.623 | | | |
| 2,600.0 | 2,555.4 | 2,594.4 | 2,582.9 | 9.0 | 5.9 | 166.96 | 99.5 | -162.9 | 256.0 | 246.3 | 9.60 | 26.656 | | | |
| 2,700.0 | 2,653.1 | 2,693.8 | 2,681.6 | 9.5 | 6.1 | 166.87 | 104.9 | -173.1 | 266.8 | 256.8 | 10.00 | 26.686 | | | |
| 2,800.0 | 2,750.7 | 2,793.2 | 2,780.3 | 9.9 | 6.4 | 166.79 | 110.4 | -183.2 | 277.7 | 267.3 | 10.40 | 26.712 | | | |
| 2,900.0 | 2,848.3 | 2,892.6 | 2,879.1 | 10.3 | 6.7 | 166.71 | 115.8 | -193.4 | 288.6 | 277.8 | 10.79 | 26.735 | | | |
| 3,000.0 | 2,946.0 | 2,992.0 | 2,977.8 | 10.7 | 6.9 | 166.63 | 121.3 | -203.6 | 299.4 | 288.2 | 11.19 | 26.756 | | | |
| 3,100.0 | 3,043.6 | 3,091.4 | 3,076.5 | 11.1 | 7.2 | 166.57 | 126.8 | -213.7 | 310.3 | 298.7 | 11.59 | 26.775 | | | |
| 3,200.0 | 3,141.2 | 3,190.8 | 3,175.3 | 11.6 | 7.4 | 166.50 | 132.2 | -223.9 | 321.2 | 309.2 | 11.99 | 26.792 | | | |
| 3,300.0 | 3,238.9 | 3,290.2 | 3,274.0 | 12.0 | 7.7 | 166.44 | 137.7 | -234.1 | 332.1 | 319.7 | 12.39 | 26.808 | | | |
| 3,400.0 | 3,336.5 | 3,389.6 | 3,372.7 | 12.4 | 8.0 | 166.39 | 143.1 | -244.2 | 342.9 | 330.1 | 12.79 | 26.822 | | | |
| 3,500.0 | 3,434.1 | 3,489.0 | 3,471.5 | 12.8 | 8.2 | 166.33 | 148.6 | -254.4 | 353.8 | 340.6 | 13.18 | 26.835 | | | |
| 3,600.0 | 3,531.8 | 3,588.4 | 3,570.2 | 13.3 | 8.5 | 166.28 | 154.1 | -264.6 | 364.7 | 351.1 | 13.58 | 26.847 | | | |
| 3,700.0 | 3,629.4 | 3,687.8 | 3,668.9 | 13.7 | 8.8 | 166.24 | 159.5 | -274.7 | 375.5 | 361.6 | 13.98 | 26.858 | | | |
| 3,800.0 | 3,727.1 | 3,787.2 | 3,767.7 | 14.1 | 9.0 | 166.19 | 165.0 | -284.9 | 386.4 | 372.0 | 14.38 | 26.868 | | | |
| 3,900.0 | 3,824.7 | 3,886.6 | 3,866.4 | 14.5 | 9.3 | 166.15 | 170.4 | -295.1 | 397.3 | 382.5 | 14.78 | 26.877 | | | |
| 4,000.0 | 3,922.3 | 3,986.1 | 3,965.1 | 14.9 | 9.6 | 166.11 | 175.9 | -305.2 | 408.2 | 393.0 | 15.18 | 26.886 | | | |
| 4,100.0 | 4,020.0 | 4,085.5 | 4,063.9 | 15.4 | 9.8 | 166.08 | 181.4 | -315.4 | 419.0 | 403.5 | 15.58 | 26.893 | | | |
| 4,200.0 | 4,117.6 | 4,184.9 | 4,162.6 | 15.8 | 10.1 | 166.04 | 186.8 | -325.6 | 429.9 | 413.9 | 15.98 | 26.901 | | | |
| 4,300.0 | 4,215.2 | 4,284.3 | 4,261.3 | 16.2 | 10.4 | 166.01 | 192.3 | -335.7 | 440.8 | 424.4 | 16.38 | 26.908 | | | |
| 4,400.0 | 4,312.9 | 4,383.7 | 4,360.1 | 16.6 | 10.6 | 165.98 | 197.7 | -345.9 | 451.7 | 434.9 | 16.78 | 26.914 | | | |
| 4,500.0 | 4,410.5 | 4,483.1 | 4,458.8 | 17.1 | 10.9 | 165.95 | 203.2 | -356.1 | 462.5 | 445.4 | 17.18 | 26.920 | | | |
| 4,600.0 | 4,508.1 | 4,582.5 | 4,557.6 | 17.5 | 11.2 | 165.92 | 208.7 | -366.2 | 473.4 | 455.8 | 17.58 | 26.925 | | | |
| 4,700.0 | 4,605.8 | 4,681.9 | 4,656.3 | 17.9 | 11.4 | 165.89 | 214.1 | -376.4 | 484.3 | 466.3 | 17.98 | 26.930 | | | |
| 4,800.0 | 4,703.4 | 4,781.3 | 4,755.0 | 18.3 | 11.7 | 165.86 | 219.6 | -386.6 | 495.2 | 476.8 | 18.38 | 26.935 | | | |
| 4,900.0 | 4,801.0 | 4,880.7 | 4,853.8 | 18.7 | 12.0 | 165.84 | 225.0 | -396.7 | 506.1 | 487.3 | 18.78 | 26.940 | | | |
| 5,000.0 | 4,898.7 | 4,980.1 | 4,952.5 | 19.2 | 12.2 | 165.81 | 230.5 | -406.9 | 516.9 | 497.7 | 19.19 | 26.944 | | | |
| 5,100.0 | 4,996.3 | 5,079.5 | 5,051.2 | 19.6 | 12.5 | 165.79 | 236.0 | -417.1 | 527.8 | 508.2 | 19.59 | 26.948 | | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|------------------------------|----------------------|---------|-----------------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | Total Uncertainty Axis | Separation Factor | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | | | | Between Ellipses (ft) | |
| 5,200.0 | 5,093.9 | 5,178.9 | 5,150.0 | 20.0 | 12.8 | 165.77 | 241.4 | -427.3 | 538.7 | 518.7 | 19.99 | 26.952 | | |
| 5,300.0 | 5,191.6 | 5,278.3 | 5,248.7 | 20.4 | 13.0 | 165.75 | 246.9 | -437.4 | 549.6 | 529.2 | 20.39 | 26.955 | | |
| 5,400.0 | 5,289.2 | 5,376.7 | 5,346.4 | 20.9 | 13.3 | 165.73 | 252.3 | -447.5 | 560.4 | 539.7 | 20.79 | 26.962 | | |
| 5,500.0 | 5,386.8 | 5,468.1 | 5,437.3 | 21.3 | 13.5 | 165.76 | 256.9 | -456.0 | 572.2 | 551.0 | 21.16 | 27.045 | | |
| 5,600.0 | 5,484.9 | 5,559.4 | 5,528.2 | 21.6 | 13.7 | 165.86 | 260.8 | -463.3 | 583.4 | 561.9 | 21.52 | 27.105 | | |
| 5,700.0 | 5,583.5 | 5,650.7 | 5,619.2 | 22.0 | 13.9 | 165.94 | 264.0 | -469.3 | 592.7 | 570.8 | 21.87 | 27.101 | | |
| 5,800.0 | 5,682.7 | 5,742.0 | 5,710.4 | 22.2 | 14.1 | 166.01 | 266.5 | -474.0 | 600.0 | 577.8 | 22.19 | 27.035 | | |
| 5,900.0 | 5,782.3 | 5,833.4 | 5,801.7 | 22.4 | 14.2 | 166.06 | 268.3 | -477.4 | 605.3 | 582.8 | 22.50 | 26.909 | | |
| 6,000.0 | 5,882.1 | 5,924.8 | 5,893.1 | 22.5 | 14.3 | 166.08 | 269.5 | -479.5 | 608.7 | 585.9 | 22.77 | 26.726 | | |
| 6,100.0 | 5,982.1 | 6,016.3 | 5,984.5 | 22.6 | 14.5 | 166.10 | 270.0 | -480.4 | 610.0 | 587.0 | 23.03 | 26.486 | | |
| 6,200.0 | 6,082.1 | 6,114.8 | 6,083.1 | 22.7 | 14.6 | 90.00 | 270.0 | -480.4 | 610.1 | 586.6 | 23.47 | 25.990 | | |
| 6,300.0 | 6,182.1 | 6,214.8 | 6,183.1 | 22.8 | 14.7 | 90.00 | 270.0 | -480.4 | 610.1 | 586.3 | 23.79 | 25.642 | | |
| 6,400.0 | 6,282.1 | 6,314.8 | 6,283.1 | 22.9 | 14.8 | 90.00 | 270.0 | -480.4 | 610.1 | 586.0 | 24.11 | 25.302 | | |
| 6,500.0 | 6,382.1 | 6,414.8 | 6,383.1 | 23.0 | 15.0 | 90.00 | 270.0 | -480.4 | 610.1 | 585.6 | 24.43 | 24.971 | | |
| 6,600.0 | 6,482.1 | 6,514.8 | 6,483.1 | 23.1 | 15.1 | 90.00 | 270.0 | -480.4 | 610.1 | 585.3 | 24.75 | 24.647 | | |
| 6,700.0 | 6,582.1 | 6,614.8 | 6,583.1 | 23.1 | 15.2 | 90.00 | 270.0 | -480.4 | 610.1 | 585.0 | 25.07 | 24.331 | | |
| 6,800.0 | 6,681.8 | 6,714.8 | 6,682.8 | 23.2 | 15.3 | -90.64 | 264.4 | -480.4 | 610.1 | 585.0 | 25.16 | 24.250 | | |
| 6,900.0 | 6,779.1 | 6,814.8 | 6,780.1 | 23.2 | 15.3 | -90.62 | 241.9 | -480.4 | 610.4 | 585.2 | 25.16 | 24.257 | | |
| 7,000.0 | 6,871.1 | 6,914.8 | 6,872.0 | 23.2 | 15.3 | -90.57 | 202.9 | -480.4 | 610.8 | 585.8 | 25.05 | 24.388 | | |
| 7,100.0 | 6,954.8 | 7,014.8 | 6,955.8 | 23.2 | 15.2 | -90.51 | 148.5 | -480.4 | 611.5 | 586.5 | 24.93 | 24.531 | | |
| 7,200.0 | 7,027.8 | 7,114.8 | 7,028.8 | 23.2 | 15.2 | -90.43 | 80.4 | -480.4 | 612.2 | 587.3 | 24.94 | 24.550 | | |
| 7,300.0 | 7,088.0 | 7,214.8 | 7,088.9 | 23.2 | 15.3 | -90.34 | 0.6 | -480.4 | 613.2 | 587.9 | 25.22 | 24.310 | | |
| 7,400.0 | 7,133.3 | 7,314.7 | 7,134.3 | 23.4 | 15.6 | -90.24 | -88.3 | -480.4 | 614.2 | 588.3 | 25.89 | 23.726 | | |
| 7,500.0 | 7,162.5 | 7,414.7 | 7,163.5 | 23.7 | 16.0 | -90.13 | -183.8 | -480.4 | 615.3 | 588.3 | 26.97 | 22.809 | | |
| 7,600.0 | 7,174.7 | 7,514.7 | 7,175.6 | 24.1 | 16.6 | -90.02 | -282.9 | -480.4 | 616.4 | 587.9 | 28.47 | 21.653 | | |
| 7,700.0 | 7,175.0 | 7,614.7 | 7,176.0 | 24.7 | 17.4 | -90.00 | -382.9 | -480.4 | 617.5 | 587.2 | 30.30 | 20.378 | | |
| 7,800.0 | 7,175.0 | 7,714.7 | 7,176.0 | 25.3 | 18.3 | -90.00 | -482.9 | -480.4 | 618.7 | 586.3 | 32.41 | 19.088 | | |
| 7,900.0 | 7,175.0 | 7,814.7 | 7,176.0 | 26.1 | 19.3 | -90.00 | -582.9 | -480.4 | 619.8 | 585.1 | 34.75 | 17.839 | | |
| 8,000.0 | 7,175.0 | 7,914.7 | 7,176.0 | 26.9 | 20.5 | -90.00 | -682.9 | -480.4 | 621.0 | 583.7 | 37.26 | 16.663 | | |
| 8,100.0 | 7,175.0 | 8,014.7 | 7,176.0 | 27.8 | 21.7 | -90.00 | -782.9 | -480.4 | 622.1 | 582.2 | 39.93 | 15.578 | | |
| 8,200.0 | 7,175.0 | 8,114.7 | 7,176.0 | 28.8 | 23.0 | -90.00 | -882.9 | -480.4 | 623.2 | 580.5 | 42.72 | 14.587 | | |
| 8,300.0 | 7,175.0 | 8,214.7 | 7,176.0 | 29.9 | 24.3 | -90.00 | -982.9 | -480.4 | 624.4 | 578.8 | 45.61 | 13.688 | | |
| 8,400.0 | 7,175.0 | 8,314.7 | 7,176.0 | 31.1 | 25.7 | -90.00 | -1,082.9 | -480.4 | 625.5 | 576.9 | 48.58 | 12.875 | | |
| 8,500.0 | 7,175.0 | 8,414.7 | 7,176.0 | 32.3 | 27.1 | -90.00 | -1,182.9 | -480.4 | 626.7 | 575.0 | 51.62 | 12.139 | | |
| 8,600.0 | 7,175.0 | 8,514.7 | 7,176.0 | 33.5 | 28.6 | -90.00 | -1,282.9 | -480.4 | 627.8 | 573.1 | 54.72 | 11.473 | | |
| 8,700.0 | 7,175.0 | 8,614.7 | 7,176.0 | 34.8 | 30.1 | -90.00 | -1,382.9 | -480.4 | 628.9 | 571.1 | 57.86 | 10.870 | | |
| 8,800.0 | 7,175.0 | 8,714.6 | 7,176.0 | 36.1 | 31.6 | -90.00 | -1,482.9 | -480.4 | 630.1 | 569.0 | 61.04 | 10.322 | | |
| 8,900.0 | 7,175.0 | 8,814.6 | 7,176.0 | 37.5 | 33.2 | -90.00 | -1,582.9 | -480.4 | 631.2 | 567.0 | 64.26 | 9.823 | | |
| 9,000.0 | 7,175.0 | 8,914.6 | 7,176.0 | 38.9 | 34.7 | -90.00 | -1,682.9 | -480.4 | 632.4 | 564.9 | 67.50 | 9.368 | | |
| 9,100.0 | 7,175.0 | 9,014.6 | 7,176.0 | 40.3 | 36.3 | -90.00 | -1,782.8 | -480.4 | 633.5 | 562.7 | 70.77 | 8.951 | | |
| 9,200.0 | 7,175.0 | 9,114.6 | 7,176.0 | 41.8 | 37.9 | -90.00 | -1,882.8 | -480.4 | 634.6 | 560.6 | 74.07 | 8.569 | | |
| 9,300.0 | 7,175.0 | 9,214.6 | 7,176.0 | 43.3 | 39.5 | -90.00 | -1,982.8 | -480.4 | 635.8 | 558.4 | 77.38 | 8.217 | | |
| 9,400.0 | 7,175.0 | 9,314.6 | 7,176.0 | 44.8 | 41.1 | -90.00 | -2,082.8 | -480.4 | 636.9 | 556.2 | 80.70 | 7.892 | | |
| 9,500.0 | 7,175.0 | 9,414.6 | 7,176.0 | 46.3 | 42.8 | -90.00 | -2,182.8 | -480.4 | 638.1 | 554.0 | 84.05 | 7.592 | | |
| 9,600.0 | 7,175.0 | 9,514.6 | 7,176.0 | 47.8 | 44.4 | -90.00 | -2,282.8 | -480.4 | 639.2 | 551.8 | 87.40 | 7.314 | | |
| 9,700.0 | 7,175.0 | 9,614.6 | 7,176.0 | 49.3 | 46.1 | -90.00 | -2,382.8 | -480.4 | 640.4 | 549.6 | 90.77 | 7.055 | | |
| 9,800.0 | 7,175.0 | 9,714.6 | 7,176.0 | 50.9 | 47.7 | -90.00 | -2,482.8 | -480.4 | 641.5 | 547.3 | 94.15 | 6.814 | | |
| 9,900.0 | 7,175.0 | 9,814.6 | 7,176.0 | 52.5 | 49.4 | -90.00 | -2,582.8 | -480.4 | 642.6 | 545.1 | 97.53 | 6.589 | | |
| 10,000.0 | 7,175.0 | 9,914.6 | 7,176.0 | 54.1 | 51.1 | -90.00 | -2,682.8 | -480.4 | 643.8 | 542.8 | 100.93 | 6.379 | | |
| 10,100.0 | 7,175.0 | 10,014.6 | 7,176.0 | 55.6 | 52.7 | -90.00 | -2,782.8 | -480.4 | 644.9 | 540.6 | 104.33 | 6.182 | | |
| 10,200.0 | 7,175.0 | 10,114.6 | 7,176.0 | 57.3 | 54.4 | -90.00 | -2,882.8 | -480.4 | 646.1 | 538.3 | 107.74 | 5.997 | | |
| 10,300.0 | 7,175.0 | 10,214.5 | 7,176.0 | 58.9 | 56.1 | -90.00 | -2,982.8 | -480.4 | 647.2 | 536.0 | 111.15 | 5.823 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2F-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 10,400.0 | 7,175.0 | 10,314.5 | 7,176.0 | 60.5 | 57.8 | -90.00 | -3,082.8 | -480.4 | 648.3 | 533.8 | 114.57 | 5.659 | | |
| 10,500.0 | 7,175.0 | 10,414.5 | 7,176.0 | 62.1 | 59.5 | -90.00 | -3,182.8 | -480.4 | 649.5 | 531.5 | 118.00 | 5.504 | | |
| 10,600.0 | 7,175.0 | 10,514.5 | 7,176.0 | 63.7 | 61.2 | -90.00 | -3,282.7 | -480.4 | 650.6 | 529.2 | 121.43 | 5.358 | | |
| 10,700.0 | 7,175.0 | 10,614.5 | 7,176.0 | 65.4 | 62.9 | -90.00 | -3,382.7 | -480.4 | 651.8 | 526.9 | 124.86 | 5.220 | | |
| 10,800.0 | 7,175.0 | 10,714.5 | 7,176.0 | 67.0 | 64.6 | -90.00 | -3,482.7 | -480.4 | 652.9 | 524.6 | 128.30 | 5.089 | | |
| 10,900.0 | 7,175.0 | 10,814.5 | 7,176.0 | 68.7 | 66.3 | -90.00 | -3,582.7 | -480.4 | 654.0 | 522.3 | 131.75 | 4.964 | | |
| 11,000.0 | 7,175.0 | 10,914.5 | 7,176.0 | 70.3 | 68.0 | -90.00 | -3,682.7 | -480.4 | 655.2 | 520.0 | 135.19 | 4.846 | | |
| 11,100.0 | 7,175.0 | 11,014.5 | 7,176.0 | 72.0 | 69.7 | -90.00 | -3,782.7 | -480.4 | 656.3 | 517.7 | 138.64 | 4.734 | | |
| 11,200.0 | 7,175.0 | 11,114.5 | 7,176.0 | 73.7 | 71.4 | -90.00 | -3,882.7 | -480.4 | 657.5 | 515.4 | 142.09 | 4.627 | | |
| 11,300.0 | 7,175.0 | 11,214.5 | 7,176.0 | 75.3 | 73.1 | -90.00 | -3,982.7 | -480.4 | 658.6 | 513.1 | 145.55 | 4.525 | | |
| 11,400.0 | 7,175.0 | 11,314.5 | 7,176.0 | 77.0 | 74.9 | -90.00 | -4,082.7 | -480.4 | 659.8 | 510.7 | 149.00 | 4.428 | | |
| 11,500.0 | 7,175.0 | 11,414.5 | 7,176.0 | 78.7 | 76.6 | -90.00 | -4,182.7 | -480.4 | 660.9 | 508.4 | 152.46 | 4.335 | | |
| 11,600.0 | 7,175.0 | 11,514.5 | 7,176.0 | 80.4 | 78.3 | -90.00 | -4,282.7 | -480.4 | 662.0 | 506.1 | 155.92 | 4.246 | | |
| 11,700.0 | 7,175.0 | 11,614.5 | 7,176.0 | 82.0 | 80.0 | -90.00 | -4,382.7 | -480.4 | 663.2 | 503.8 | 159.39 | 4.161 | | |
| 11,800.0 | 7,175.0 | 11,714.4 | 7,176.0 | 83.7 | 81.7 | -90.00 | -4,482.7 | -480.4 | 664.3 | 501.5 | 162.85 | 4.079 | | |
| 11,865.9 | 7,175.0 | 11,780.4 | 7,176.0 | 84.8 | 82.9 | -90.00 | -4,548.6 | -480.4 | 665.1 | 499.9 | 165.14 | 4.027 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2G-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | |
| 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 90.10 | -0.1 | 29.9 | 29.9 | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 90.10 | -0.1 | 29.9 | 29.9 | 29.7 | 0.25 | 121.629 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 90.10 | -0.1 | 29.9 | 29.9 | 29.3 | 0.60 | 50.292 | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | 90.10 | -0.1 | 29.9 | 29.9 | 29.0 | 0.94 | 31.700 | CC, ES | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.6 | 0.6 | 166.94 | -0.1 | 29.9 | 31.6 | 30.3 | 1.29 | 24.463 | | |
| 500.0 | 499.8 | 500.8 | 500.8 | 0.8 | 0.8 | 168.76 | -0.1 | 29.9 | 36.7 | 35.1 | 1.64 | 22.397 | | |
| 600.0 | 599.5 | 601.0 | 601.0 | 1.1 | 1.0 | 170.03 | 0.7 | 29.4 | 44.7 | 42.8 | 1.99 | 22.506 | | |
| 700.0 | 698.7 | 701.0 | 701.0 | 1.3 | 1.2 | 170.12 | 2.8 | 27.8 | 55.0 | 52.7 | 2.34 | 23.560 | | |
| 800.0 | 797.5 | 800.9 | 800.8 | 1.6 | 1.4 | 169.53 | 6.3 | 25.2 | 67.6 | 64.9 | 2.69 | 25.156 | | |
| 900.0 | 895.6 | 900.4 | 900.1 | 2.0 | 1.5 | 168.67 | 11.1 | 21.6 | 82.6 | 79.5 | 3.05 | 27.092 | | |
| 1,000.0 | 993.3 | 998.9 | 998.4 | 2.4 | 1.7 | 168.17 | 16.3 | 17.8 | 99.6 | 96.2 | 3.42 | 29.148 | | |
| 1,100.0 | 1,090.9 | 1,097.4 | 1,096.7 | 2.8 | 1.9 | 167.85 | 21.5 | 13.9 | 116.7 | 113.0 | 3.79 | 30.779 | | |
| 1,200.0 | 1,188.5 | 1,195.9 | 1,195.0 | 3.2 | 2.1 | 167.60 | 26.7 | 10.1 | 133.9 | 129.7 | 4.17 | 32.096 | | |
| 1,300.0 | 1,286.2 | 1,294.5 | 1,293.3 | 3.6 | 2.3 | 167.42 | 31.9 | 6.3 | 151.0 | 146.5 | 4.55 | 33.179 | | |
| 1,400.0 | 1,383.8 | 1,393.0 | 1,391.6 | 4.0 | 2.5 | 167.27 | 37.0 | 2.4 | 168.2 | 163.3 | 4.93 | 34.085 | | |
| 1,500.0 | 1,481.5 | 1,491.5 | 1,489.9 | 4.4 | 2.7 | 167.14 | 42.2 | -1.4 | 185.3 | 180.0 | 5.32 | 34.852 | | |
| 1,600.0 | 1,579.1 | 1,590.0 | 1,588.2 | 4.8 | 2.9 | 167.04 | 47.4 | -5.3 | 202.5 | 196.8 | 5.70 | 35.510 | | |
| 1,700.0 | 1,676.7 | 1,688.5 | 1,686.5 | 5.3 | 3.1 | 166.96 | 52.6 | -9.1 | 219.7 | 213.6 | 6.09 | 36.080 | | |
| 1,800.0 | 1,774.4 | 1,787.0 | 1,784.8 | 5.7 | 3.3 | 166.88 | 57.8 | -13.0 | 236.8 | 230.3 | 6.47 | 36.578 | | |
| 1,900.0 | 1,872.0 | 1,885.6 | 1,883.1 | 6.1 | 3.5 | 166.82 | 62.9 | -16.8 | 254.0 | 247.1 | 6.86 | 37.018 | | |
| 2,000.0 | 1,969.6 | 1,984.1 | 1,981.4 | 6.5 | 3.7 | 166.77 | 68.1 | -20.7 | 271.1 | 263.9 | 7.25 | 37.408 | | |
| 2,100.0 | 2,067.3 | 2,082.6 | 2,079.7 | 6.9 | 3.9 | 166.72 | 73.3 | -24.5 | 288.3 | 280.6 | 7.63 | 37.756 | | |
| 2,200.0 | 2,164.9 | 2,181.1 | 2,178.0 | 7.3 | 4.1 | 166.67 | 78.5 | -28.3 | 305.4 | 297.4 | 8.02 | 38.069 | | |
| 2,300.0 | 2,262.5 | 2,279.6 | 2,276.4 | 7.8 | 4.4 | 166.63 | 83.6 | -32.2 | 322.6 | 314.2 | 8.41 | 38.353 | | |
| 2,400.0 | 2,360.2 | 2,378.2 | 2,374.7 | 8.2 | 4.6 | 166.60 | 88.8 | -36.0 | 339.7 | 330.9 | 8.80 | 38.609 | | |
| 2,500.0 | 2,457.8 | 2,476.7 | 2,473.0 | 8.6 | 4.8 | 166.57 | 94.0 | -39.9 | 356.9 | 347.7 | 9.19 | 38.844 | | |
| 2,600.0 | 2,555.4 | 2,575.2 | 2,571.3 | 9.0 | 5.0 | 166.54 | 99.2 | -43.7 | 374.0 | 364.5 | 9.58 | 39.058 | | |
| 2,700.0 | 2,653.1 | 2,673.7 | 2,669.6 | 9.5 | 5.2 | 166.51 | 104.4 | -47.6 | 391.2 | 381.2 | 9.97 | 39.255 | | |
| 2,800.0 | 2,750.7 | 2,772.2 | 2,767.9 | 9.9 | 5.4 | 166.49 | 109.5 | -51.4 | 408.3 | 398.0 | 10.35 | 39.437 | | |
| 2,900.0 | 2,848.3 | 2,870.7 | 2,866.2 | 10.3 | 5.6 | 166.47 | 114.7 | -55.3 | 425.5 | 414.8 | 10.74 | 39.605 | | |
| 3,000.0 | 2,946.0 | 2,969.3 | 2,964.5 | 10.7 | 5.8 | 166.45 | 119.9 | -59.1 | 442.7 | 431.5 | 11.13 | 39.761 | | |
| 3,100.0 | 3,043.6 | 3,067.8 | 3,062.8 | 11.1 | 6.0 | 166.43 | 125.1 | -62.9 | 459.8 | 448.3 | 11.52 | 39.906 | | |
| 3,200.0 | 3,141.2 | 3,166.3 | 3,161.1 | 11.6 | 6.2 | 166.41 | 130.3 | -66.8 | 477.0 | 465.1 | 11.91 | 40.041 | | |
| 3,300.0 | 3,238.9 | 3,264.8 | 3,259.4 | 12.0 | 6.4 | 166.40 | 135.4 | -70.6 | 494.1 | 481.8 | 12.30 | 40.167 | | |
| 3,400.0 | 3,336.5 | 3,363.3 | 3,357.7 | 12.4 | 6.6 | 166.38 | 140.6 | -74.5 | 511.3 | 498.6 | 12.69 | 40.285 | | |
| 3,500.0 | 3,434.1 | 3,461.8 | 3,456.0 | 12.8 | 6.8 | 166.37 | 145.8 | -78.3 | 528.4 | 515.4 | 13.08 | 40.396 | | |
| 3,600.0 | 3,531.8 | 3,560.4 | 3,554.3 | 13.3 | 7.0 | 166.35 | 151.0 | -82.2 | 545.6 | 532.1 | 13.47 | 40.500 | | |
| 3,700.0 | 3,629.4 | 3,658.9 | 3,652.6 | 13.7 | 7.2 | 166.34 | 156.2 | -86.0 | 562.7 | 548.9 | 13.86 | 40.599 | | |
| 3,800.0 | 3,727.1 | 3,757.4 | 3,750.9 | 14.1 | 7.4 | 166.33 | 161.3 | -89.9 | 579.9 | 565.6 | 14.25 | 40.691 | | |
| 3,900.0 | 3,824.7 | 3,855.9 | 3,849.2 | 14.5 | 7.6 | 166.32 | 166.5 | -93.7 | 597.1 | 582.4 | 14.64 | 40.779 | | |
| 4,000.0 | 3,922.3 | 3,954.4 | 3,947.6 | 14.9 | 7.8 | 166.31 | 171.7 | -97.5 | 614.2 | 599.2 | 15.03 | 40.862 | | |
| 4,100.0 | 4,020.0 | 4,052.9 | 4,045.9 | 15.4 | 8.0 | 166.30 | 176.9 | -101.4 | 631.4 | 615.9 | 15.42 | 40.941 | | |
| 4,200.0 | 4,117.6 | 4,151.5 | 4,144.2 | 15.8 | 8.2 | 166.29 | 182.1 | -105.2 | 648.5 | 632.7 | 15.81 | 41.015 | | |
| 4,300.0 | 4,215.2 | 4,250.0 | 4,242.5 | 16.2 | 8.4 | 166.28 | 187.2 | -109.1 | 665.7 | 649.5 | 16.20 | 41.086 | | |
| 4,400.0 | 4,312.9 | 4,348.5 | 4,340.8 | 16.6 | 8.6 | 166.27 | 192.4 | -112.9 | 682.8 | 666.2 | 16.59 | 41.154 | | |
| 4,500.0 | 4,410.5 | 4,447.0 | 4,439.1 | 17.1 | 8.9 | 166.26 | 197.6 | -116.8 | 700.0 | 683.0 | 16.98 | 41.218 | | |
| 4,600.0 | 4,508.1 | 4,545.5 | 4,537.4 | 17.5 | 9.1 | 166.26 | 202.8 | -120.6 | 717.1 | 699.8 | 17.37 | 41.279 | | |
| 4,700.0 | 4,605.8 | 4,644.1 | 4,635.7 | 17.9 | 9.3 | 166.25 | 208.0 | -124.5 | 734.3 | 716.5 | 17.76 | 41.338 | | |
| 4,800.0 | 4,703.4 | 4,742.6 | 4,734.0 | 18.3 | 9.5 | 166.24 | 213.1 | -128.3 | 751.5 | 733.3 | 18.15 | 41.394 | | |
| 4,900.0 | 4,801.0 | 4,841.1 | 4,832.3 | 18.7 | 9.7 | 166.24 | 218.3 | -132.1 | 768.6 | 750.1 | 18.54 | 41.448 | | |
| 5,000.0 | 4,898.7 | 4,939.6 | 4,930.6 | 19.2 | 9.9 | 166.23 | 223.5 | -136.0 | 785.8 | 766.8 | 18.93 | 41.499 | | |
| 5,100.0 | 4,996.3 | 5,038.1 | 5,028.9 | 19.6 | 10.1 | 166.22 | 228.7 | -139.8 | 802.9 | 783.6 | 19.33 | 41.548 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2G-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,200.0 | 5,093.9 | 5,136.6 | 5,127.2 | 20.0 | 10.3 | 166.22 | 233.9 | -143.7 | 820.1 | 800.4 | 19.72 | 41.595 | | |
| 5,300.0 | 5,191.6 | 5,235.2 | 5,225.5 | 20.4 | 10.5 | 166.21 | 239.0 | -147.5 | 837.2 | 817.1 | 20.11 | 41.641 | | |
| 5,400.0 | 5,289.2 | 5,333.7 | 5,323.8 | 20.9 | 10.7 | 166.21 | 244.2 | -151.4 | 854.4 | 833.9 | 20.50 | 41.684 | | |
| 5,500.0 | 5,386.8 | 5,432.2 | 5,422.1 | 21.3 | 10.9 | 166.21 | 249.4 | -155.2 | 871.5 | 850.6 | 20.89 | 41.721 | | |
| 5,600.0 | 5,484.9 | 5,531.0 | 5,520.8 | 21.6 | 11.1 | 166.24 | 254.6 | -159.1 | 886.8 | 865.5 | 21.31 | 41.618 | | |
| 5,700.0 | 5,583.5 | 5,630.3 | 5,619.8 | 22.0 | 11.3 | 166.21 | 259.8 | -162.9 | 898.7 | 877.0 | 21.72 | 41.379 | | |
| 5,800.0 | 5,682.7 | 5,721.7 | 5,711.1 | 22.2 | 11.5 | 166.16 | 264.1 | -166.1 | 907.7 | 885.6 | 22.09 | 41.092 | | |
| 5,900.0 | 5,782.3 | 5,812.8 | 5,802.1 | 22.4 | 11.7 | 166.13 | 267.2 | -168.4 | 914.2 | 891.8 | 22.43 | 40.767 | | |
| 6,000.0 | 5,882.1 | 5,900.0 | 5,889.3 | 22.5 | 11.8 | 166.11 | 269.1 | -169.8 | 918.3 | 895.6 | 22.72 | 40.414 | | |
| 6,100.0 | 5,982.1 | 5,995.3 | 5,984.5 | 22.6 | 12.0 | 166.10 | 269.9 | -170.5 | 920.0 | 897.0 | 23.00 | 39.996 | | |
| 6,200.0 | 6,082.1 | 6,093.8 | 6,083.1 | 22.7 | 12.1 | 90.00 | 269.9 | -170.5 | 920.0 | 896.6 | 23.42 | 39.284 | | |
| 6,300.0 | 6,182.1 | 6,193.8 | 6,183.1 | 22.8 | 12.3 | 90.00 | 269.9 | -170.5 | 920.0 | 896.3 | 23.74 | 38.757 | | |
| 6,400.0 | 6,282.1 | 6,293.8 | 6,283.1 | 22.9 | 12.4 | 90.00 | 269.9 | -170.5 | 920.0 | 896.0 | 24.06 | 38.242 | | |
| 6,500.0 | 6,382.1 | 6,393.8 | 6,383.1 | 23.0 | 12.6 | 90.00 | 269.9 | -170.5 | 920.0 | 895.7 | 24.38 | 37.740 | | |
| 6,600.0 | 6,482.1 | 6,494.1 | 6,483.4 | 23.1 | 12.7 | 90.01 | 269.9 | -170.5 | 920.0 | 895.3 | 24.70 | 37.253 | | |
| 6,700.0 | 6,582.1 | 6,595.6 | 6,584.1 | 23.1 | 12.8 | 90.68 | 259.1 | -170.7 | 919.9 | 895.1 | 24.82 | 37.065 | | |
| 6,731.1 | 6,613.2 | 6,626.2 | 6,614.0 | 23.2 | 12.8 | -89.60 | 252.3 | -170.8 | 919.9 | 895.2 | 24.70 | 37.243 | | |
| 6,800.0 | 6,681.8 | 6,692.1 | 6,676.8 | 23.2 | 12.8 | -88.63 | 232.5 | -171.1 | 920.0 | 895.4 | 24.63 | 37.361 | | |
| 6,900.0 | 6,779.1 | 6,785.3 | 6,760.8 | 23.2 | 12.7 | -87.32 | 192.5 | -171.8 | 920.5 | 896.1 | 24.45 | 37.645 | | |
| 7,000.0 | 6,871.1 | 6,875.5 | 6,835.0 | 23.2 | 12.7 | -86.10 | 141.2 | -172.7 | 921.3 | 897.0 | 24.33 | 37.875 | | |
| 7,100.0 | 6,954.8 | 6,963.4 | 6,898.6 | 23.2 | 12.7 | -85.00 | 80.7 | -173.8 | 922.4 | 898.0 | 24.34 | 37.892 | | |
| 7,200.0 | 7,027.8 | 7,050.0 | 6,951.5 | 23.2 | 12.8 | -84.03 | 12.3 | -175.0 | 923.4 | 898.9 | 24.57 | 37.589 | | |
| 7,300.0 | 7,088.0 | 7,133.6 | 6,992.2 | 23.2 | 13.0 | -83.23 | -60.6 | -176.3 | 924.4 | 899.3 | 25.05 | 36.901 | | |
| 7,400.0 | 7,133.3 | 7,216.7 | 7,021.8 | 23.4 | 13.4 | -82.61 | -138.2 | -177.7 | 925.1 | 899.3 | 25.80 | 35.864 | | |
| 7,500.0 | 7,162.5 | 7,300.0 | 7,039.9 | 23.7 | 13.9 | -82.17 | -219.4 | -179.1 | 925.6 | 898.8 | 26.79 | 34.544 | | |
| 7,600.0 | 7,174.7 | 7,383.8 | 7,046.0 | 24.1 | 14.5 | -81.93 | -302.9 | -180.6 | 925.6 | 897.6 | 28.03 | 33.017 | | |
| 7,700.0 | 7,175.0 | 7,480.0 | 7,046.0 | 24.7 | 15.4 | -81.92 | -399.1 | -182.3 | 925.0 | 895.2 | 29.82 | 31.017 | | |
| 7,800.0 | 7,175.0 | 7,580.0 | 7,046.0 | 25.3 | 16.5 | -81.92 | -499.1 | -184.0 | 924.4 | 892.5 | 31.95 | 28.936 | | |
| 7,900.0 | 7,175.0 | 7,680.0 | 7,046.0 | 26.1 | 17.6 | -81.91 | -599.0 | -185.8 | 923.8 | 889.5 | 34.29 | 26.939 | | |
| 8,000.0 | 7,175.0 | 7,780.0 | 7,046.0 | 26.9 | 18.9 | -81.90 | -699.0 | -187.5 | 923.2 | 886.4 | 36.82 | 25.075 | | |
| 8,100.0 | 7,175.0 | 7,880.0 | 7,046.0 | 27.8 | 20.2 | -81.90 | -799.0 | -189.3 | 922.6 | 883.1 | 39.48 | 23.365 | | |
| 8,200.0 | 7,175.0 | 7,980.0 | 7,046.0 | 28.8 | 21.6 | -81.89 | -899.0 | -191.1 | 921.9 | 879.7 | 42.27 | 21.811 | | |
| 8,300.0 | 7,175.0 | 8,080.0 | 7,046.0 | 29.9 | 23.1 | -81.89 | -999.0 | -192.8 | 921.3 | 876.2 | 45.15 | 20.405 | | |
| 8,400.0 | 7,175.0 | 8,180.0 | 7,046.0 | 31.1 | 24.5 | -81.88 | -1,099.0 | -194.6 | 920.7 | 872.6 | 48.11 | 19.137 | | |
| 8,500.0 | 7,175.0 | 8,279.9 | 7,046.0 | 32.3 | 26.1 | -81.88 | -1,198.9 | -196.4 | 920.1 | 869.0 | 51.13 | 17.994 | | |
| 8,600.0 | 7,175.0 | 8,379.9 | 7,046.0 | 33.5 | 27.6 | -81.87 | -1,298.9 | -198.1 | 919.5 | 865.3 | 54.21 | 16.961 | | |
| 8,700.0 | 7,175.0 | 8,479.9 | 7,046.0 | 34.8 | 29.2 | -81.87 | -1,398.9 | -199.9 | 918.9 | 861.5 | 57.34 | 16.026 | | |
| 8,800.0 | 7,175.0 | 8,579.9 | 7,046.0 | 36.1 | 30.8 | -81.86 | -1,498.9 | -201.6 | 918.2 | 857.8 | 60.50 | 15.179 | | |
| 8,900.0 | 7,175.0 | 8,679.9 | 7,046.0 | 37.5 | 32.4 | -81.86 | -1,598.9 | -203.4 | 917.6 | 853.9 | 63.69 | 14.408 | | |
| 9,000.0 | 7,175.0 | 8,779.9 | 7,046.0 | 38.9 | 34.0 | -81.85 | -1,698.8 | -205.2 | 917.0 | 850.1 | 66.91 | 13.705 | | |
| 9,100.0 | 7,175.0 | 8,879.9 | 7,046.0 | 40.3 | 35.6 | -81.84 | -1,798.8 | -206.9 | 916.4 | 846.2 | 70.16 | 13.062 | | |
| 9,200.0 | 7,175.0 | 8,979.9 | 7,046.0 | 41.8 | 37.3 | -81.84 | -1,898.8 | -208.7 | 915.8 | 842.4 | 73.42 | 12.473 | | |
| 9,300.0 | 7,175.0 | 9,079.9 | 7,046.0 | 43.3 | 38.9 | -81.83 | -1,998.8 | -210.4 | 915.2 | 838.5 | 76.71 | 11.931 | | |
| 9,400.0 | 7,175.0 | 9,179.9 | 7,046.0 | 44.8 | 40.6 | -81.83 | -2,098.8 | -212.2 | 914.6 | 834.6 | 80.01 | 11.431 | | |
| 9,500.0 | 7,175.0 | 9,279.9 | 7,046.0 | 46.3 | 42.2 | -81.82 | -2,198.8 | -214.0 | 913.9 | 830.6 | 83.32 | 10.969 | | |
| 9,600.0 | 7,175.0 | 9,379.9 | 7,046.0 | 47.8 | 43.9 | -81.82 | -2,298.7 | -215.7 | 913.3 | 826.7 | 86.65 | 10.541 | | |
| 9,700.0 | 7,175.0 | 9,479.9 | 7,046.0 | 49.3 | 45.6 | -81.81 | -2,398.7 | -217.5 | 912.7 | 822.7 | 89.98 | 10.143 | | |
| 9,800.0 | 7,175.0 | 9,579.9 | 7,046.0 | 50.9 | 47.3 | -81.81 | -2,498.7 | -219.3 | 912.1 | 818.8 | 93.33 | 9.773 | | |
| 9,900.0 | 7,175.0 | 9,679.9 | 7,046.0 | 52.5 | 49.0 | -81.80 | -2,598.7 | -221.0 | 911.5 | 814.8 | 96.68 | 9.427 | | |
| 10,000.0 | 7,175.0 | 9,779.9 | 7,046.0 | 54.1 | 50.7 | -81.79 | -2,698.7 | -222.8 | 910.9 | 810.8 | 100.05 | 9.104 | | |
| 10,100.0 | 7,175.0 | 9,879.9 | 7,046.0 | 55.6 | 52.4 | -81.79 | -2,798.7 | -224.5 | 910.3 | 806.8 | 103.42 | 8.802 | | |
| 10,200.0 | 7,175.0 | 9,979.9 | 7,046.0 | 57.3 | 54.1 | -81.78 | -2,898.6 | -226.3 | 909.6 | 802.8 | 106.79 | 8.518 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2G-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|------------|-----------------|------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | | | | |
| 10,300.0 | 7,175.0 | 10,079.9 | 7,046.0 | 58.9 | 55.8 | -81.78 | -2,998.6 | -228.1 | 909.0 | 798.8 | 110.18 | 8.251 | | |
| 10,400.0 | 7,175.0 | 10,179.9 | 7,046.0 | 60.5 | 57.5 | -81.77 | -3,098.6 | -229.8 | 908.4 | 794.8 | 113.57 | 7.999 | | |
| 10,500.0 | 7,175.0 | 10,279.9 | 7,046.0 | 62.1 | 59.2 | -81.77 | -3,198.6 | -231.6 | 907.8 | 790.8 | 116.96 | 7.762 | | |
| 10,600.0 | 7,175.0 | 10,379.9 | 7,046.0 | 63.7 | 60.9 | -81.76 | -3,298.6 | -233.4 | 907.2 | 786.8 | 120.35 | 7.538 | | |
| 10,700.0 | 7,175.0 | 10,479.9 | 7,046.0 | 65.4 | 62.6 | -81.76 | -3,398.6 | -235.1 | 906.6 | 782.8 | 123.76 | 7.325 | | |
| 10,800.0 | 7,175.0 | 10,579.9 | 7,046.0 | 67.0 | 64.4 | -81.75 | -3,498.5 | -236.9 | 905.9 | 778.8 | 127.16 | 7.124 | | |
| 10,900.0 | 7,175.0 | 10,679.9 | 7,046.0 | 68.7 | 66.1 | -81.74 | -3,598.5 | -238.6 | 905.3 | 774.8 | 130.57 | 6.934 | | |
| 11,000.0 | 7,175.0 | 10,779.9 | 7,046.0 | 70.3 | 67.8 | -81.74 | -3,698.5 | -240.4 | 904.7 | 770.7 | 133.98 | 6.753 | | |
| 11,100.0 | 7,175.0 | 10,879.9 | 7,046.0 | 72.0 | 69.5 | -81.73 | -3,798.5 | -242.2 | 904.1 | 766.7 | 137.39 | 6.580 | | |
| 11,200.0 | 7,175.0 | 10,979.9 | 7,046.0 | 73.7 | 71.2 | -81.73 | -3,898.5 | -243.9 | 903.5 | 762.7 | 140.81 | 6.416 | | |
| 11,300.0 | 7,175.0 | 11,079.9 | 7,046.0 | 75.3 | 73.0 | -81.72 | -3,998.4 | -245.7 | 902.9 | 758.6 | 144.23 | 6.260 | | |
| 11,400.0 | 7,175.0 | 11,179.9 | 7,046.0 | 77.0 | 74.7 | -81.72 | -4,098.4 | -247.4 | 902.3 | 754.6 | 147.65 | 6.111 | | |
| 11,500.0 | 7,175.0 | 11,279.9 | 7,046.0 | 78.7 | 76.4 | -81.71 | -4,198.4 | -249.2 | 901.6 | 750.6 | 151.07 | 5.968 | | |
| 11,600.0 | 7,175.0 | 11,379.9 | 7,046.0 | 80.4 | 78.2 | -81.70 | -4,298.4 | -251.0 | 901.0 | 746.5 | 154.50 | 5.832 | | |
| 11,700.0 | 7,175.0 | 11,479.9 | 7,046.0 | 82.0 | 79.9 | -81.70 | -4,398.4 | -252.7 | 900.4 | 742.5 | 157.93 | 5.701 | | |
| 11,800.0 | 7,175.0 | 11,579.9 | 7,046.0 | 83.7 | 81.6 | -81.69 | -4,498.4 | -254.5 | 899.8 | 738.4 | 161.36 | 5.576 | | |
| 11,859.2 | 7,175.0 | 11,633.9 | 7,046.0 | 84.7 | 82.6 | -81.69 | -4,552.4 | -255.4 | 899.4 | 736.1 | 163.30 | 5.508 | | |
| 11,865.9 | 7,175.0 | 11,633.9 | 7,046.0 | 84.8 | 82.6 | -81.69 | -4,552.4 | -255.4 | 899.5 | 736.1 | 163.41 | 5.504 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 1.0 | 1.0 | 0.0 | 0.0 | 90.56 | -0.4 | 37.5 | 37.5 | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 90.56 | -0.4 | 37.5 | 37.5 | 37.2 | 0.25 | 152.328 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 90.56 | -0.4 | 37.5 | 37.5 | 36.9 | 0.60 | 62.986 | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | 90.56 | -0.4 | 37.5 | 37.5 | 36.5 | 0.94 | 39.701 | CC, ES | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.6 | 0.6 | 167.23 | -0.4 | 37.5 | 39.2 | 37.9 | 1.29 | 30.308 | | |
| 500.0 | 499.8 | 500.9 | 500.9 | 0.8 | 0.8 | 168.43 | -0.1 | 37.4 | 44.2 | 42.6 | 1.64 | 26.960 | | |
| 600.0 | 599.5 | 600.9 | 600.8 | 1.1 | 1.0 | 168.46 | 1.6 | 37.0 | 52.3 | 50.3 | 1.99 | 26.275 | SF | |
| 700.0 | 698.7 | 700.5 | 700.5 | 1.3 | 1.2 | 167.59 | 4.9 | 36.1 | 63.2 | 60.9 | 2.34 | 26.991 | | |
| 800.0 | 797.5 | 799.7 | 799.5 | 1.6 | 1.4 | 166.41 | 9.8 | 34.9 | 77.2 | 74.5 | 2.70 | 28.552 | | |
| 900.0 | 895.6 | 898.2 | 897.9 | 2.0 | 1.5 | 165.95 | 14.9 | 33.6 | 94.4 | 91.4 | 3.07 | 30.791 | | |
| 1,000.0 | 993.3 | 996.3 | 995.8 | 2.4 | 1.7 | 165.97 | 19.9 | 32.4 | 114.0 | 110.6 | 3.44 | 33.160 | | |
| 1,100.0 | 1,090.9 | 1,094.3 | 1,093.7 | 2.8 | 1.9 | 166.02 | 24.9 | 31.1 | 133.8 | 129.9 | 3.82 | 35.044 | | |
| 1,200.0 | 1,188.5 | 1,192.3 | 1,191.6 | 3.2 | 2.1 | 166.05 | 30.0 | 29.8 | 153.5 | 149.3 | 4.20 | 36.574 | | |
| 1,300.0 | 1,286.2 | 1,290.4 | 1,289.5 | 3.6 | 2.3 | 166.08 | 35.0 | 28.6 | 173.2 | 168.6 | 4.58 | 37.839 | | |
| 1,400.0 | 1,383.8 | 1,388.4 | 1,387.4 | 4.0 | 2.5 | 166.10 | 40.1 | 27.3 | 192.9 | 188.0 | 4.96 | 38.902 | | |
| 1,500.0 | 1,481.5 | 1,486.4 | 1,485.3 | 4.4 | 2.7 | 166.11 | 45.1 | 26.0 | 212.6 | 207.3 | 5.34 | 39.807 | | |
| 1,600.0 | 1,579.1 | 1,584.5 | 1,583.2 | 4.8 | 2.9 | 166.13 | 50.1 | 24.8 | 232.4 | 226.6 | 5.73 | 40.586 | | |
| 1,700.0 | 1,676.7 | 1,682.5 | 1,681.1 | 5.3 | 3.1 | 166.14 | 55.2 | 23.5 | 252.1 | 246.0 | 6.11 | 41.264 | | |
| 1,800.0 | 1,774.4 | 1,780.5 | 1,779.0 | 5.7 | 3.3 | 166.15 | 60.2 | 22.2 | 271.8 | 265.3 | 6.49 | 41.859 | | |
| 1,900.0 | 1,872.0 | 1,878.6 | 1,876.9 | 6.1 | 3.4 | 166.16 | 65.3 | 21.0 | 291.5 | 284.7 | 6.88 | 42.386 | | |
| 2,000.0 | 1,969.6 | 1,976.6 | 1,974.8 | 6.5 | 3.6 | 166.17 | 70.3 | 19.7 | 311.2 | 304.0 | 7.26 | 42.855 | | |
| 2,100.0 | 2,067.3 | 2,074.7 | 2,072.7 | 6.9 | 3.8 | 166.17 | 75.3 | 18.4 | 331.0 | 323.3 | 7.65 | 43.275 | | |
| 2,200.0 | 2,164.9 | 2,172.7 | 2,170.6 | 7.3 | 4.0 | 166.18 | 80.4 | 17.2 | 350.7 | 342.7 | 8.03 | 43.654 | | |
| 2,300.0 | 2,262.5 | 2,270.7 | 2,268.5 | 7.8 | 4.2 | 166.18 | 85.4 | 15.9 | 370.4 | 362.0 | 8.42 | 43.997 | | |
| 2,400.0 | 2,360.2 | 2,368.8 | 2,366.4 | 8.2 | 4.4 | 166.19 | 90.4 | 14.6 | 390.1 | 381.3 | 8.80 | 44.309 | | |
| 2,500.0 | 2,457.8 | 2,466.8 | 2,464.3 | 8.6 | 4.6 | 166.19 | 95.5 | 13.3 | 409.9 | 400.7 | 9.19 | 44.595 | | |
| 2,600.0 | 2,555.4 | 2,564.8 | 2,562.1 | 9.0 | 4.8 | 166.20 | 100.5 | 12.1 | 429.6 | 420.0 | 9.58 | 44.856 | | |
| 2,700.0 | 2,653.1 | 2,662.9 | 2,660.0 | 9.5 | 5.0 | 166.20 | 105.6 | 10.8 | 449.3 | 439.3 | 9.96 | 45.097 | | |
| 2,800.0 | 2,750.7 | 2,760.9 | 2,757.9 | 9.9 | 5.2 | 166.20 | 110.6 | 9.5 | 469.0 | 458.7 | 10.35 | 45.320 | | |
| 2,900.0 | 2,848.3 | 2,858.9 | 2,855.8 | 10.3 | 5.4 | 166.21 | 115.6 | 8.3 | 488.7 | 478.0 | 10.74 | 45.526 | | |
| 3,000.0 | 2,946.0 | 2,957.0 | 2,953.7 | 10.7 | 5.6 | 166.21 | 120.7 | 7.0 | 508.5 | 497.3 | 11.12 | 45.718 | | |
| 3,100.0 | 3,043.6 | 3,055.0 | 3,051.6 | 11.1 | 5.8 | 166.21 | 125.7 | 5.7 | 528.2 | 516.7 | 11.51 | 45.896 | | |
| 3,200.0 | 3,141.2 | 3,153.1 | 3,149.5 | 11.6 | 6.0 | 166.21 | 130.8 | 4.5 | 547.9 | 536.0 | 11.89 | 46.063 | | |
| 3,300.0 | 3,238.9 | 3,251.1 | 3,247.4 | 12.0 | 6.1 | 166.22 | 135.8 | 3.2 | 567.6 | 555.3 | 12.28 | 46.219 | | |
| 3,400.0 | 3,336.5 | 3,349.1 | 3,345.3 | 12.4 | 6.3 | 166.22 | 140.8 | 1.9 | 587.3 | 574.7 | 12.67 | 46.365 | | |
| 3,500.0 | 3,434.1 | 3,447.2 | 3,443.2 | 12.8 | 6.5 | 166.22 | 145.9 | 0.7 | 607.1 | 594.0 | 13.05 | 46.502 | | |
| 3,600.0 | 3,531.8 | 3,545.2 | 3,541.1 | 13.3 | 6.7 | 166.22 | 150.9 | -0.6 | 626.8 | 613.3 | 13.44 | 46.632 | | |
| 3,700.0 | 3,629.4 | 3,643.2 | 3,639.0 | 13.7 | 6.9 | 166.22 | 155.9 | -1.9 | 646.5 | 632.7 | 13.83 | 46.754 | | |
| 3,800.0 | 3,727.1 | 3,741.3 | 3,736.9 | 14.1 | 7.1 | 166.23 | 161.0 | -3.2 | 666.2 | 652.0 | 14.21 | 46.869 | | |
| 3,900.0 | 3,824.7 | 3,839.3 | 3,834.8 | 14.5 | 7.3 | 166.23 | 166.0 | -4.4 | 685.9 | 671.3 | 14.60 | 46.978 | | |
| 4,000.0 | 3,922.3 | 3,937.3 | 3,932.7 | 14.9 | 7.5 | 166.23 | 171.1 | -5.7 | 705.7 | 690.7 | 14.99 | 47.081 | | |
| 4,100.0 | 4,020.0 | 4,035.4 | 4,030.6 | 15.4 | 7.7 | 166.23 | 176.1 | -7.0 | 725.4 | 710.0 | 15.37 | 47.179 | | |
| 4,200.0 | 4,117.6 | 4,133.4 | 4,128.5 | 15.8 | 7.9 | 166.23 | 181.1 | -8.2 | 745.1 | 729.3 | 15.76 | 47.272 | | |
| 4,300.0 | 4,215.2 | 4,231.5 | 4,226.4 | 16.2 | 8.1 | 166.23 | 186.2 | -9.5 | 764.8 | 748.7 | 16.15 | 47.361 | | |
| 4,400.0 | 4,312.9 | 4,329.5 | 4,324.3 | 16.6 | 8.3 | 166.23 | 191.2 | -10.8 | 784.5 | 768.0 | 16.54 | 47.445 | | |
| 4,500.0 | 4,410.5 | 4,427.5 | 4,422.2 | 17.1 | 8.5 | 166.23 | 196.3 | -12.0 | 804.3 | 787.3 | 16.92 | 47.525 | | |
| 4,600.0 | 4,508.1 | 4,525.6 | 4,520.1 | 17.5 | 8.7 | 166.24 | 201.3 | -13.3 | 824.0 | 806.7 | 17.31 | 47.602 | | |
| 4,700.0 | 4,605.8 | 4,623.6 | 4,618.0 | 17.9 | 8.9 | 166.24 | 206.3 | -14.6 | 843.7 | 826.0 | 17.70 | 47.675 | | |
| 4,800.0 | 4,703.4 | 4,721.6 | 4,715.9 | 18.3 | 9.0 | 166.24 | 211.4 | -15.8 | 863.4 | 845.3 | 18.08 | 47.746 | | |
| 4,900.0 | 4,801.0 | 4,819.7 | 4,813.8 | 18.7 | 9.2 | 166.24 | 216.4 | -17.1 | 883.1 | 864.7 | 18.47 | 47.813 | | |
| 5,000.0 | 4,898.7 | 4,917.7 | 4,911.7 | 19.2 | 9.4 | 166.24 | 221.4 | -18.4 | 902.9 | 884.0 | 18.86 | 47.877 | | |
| 5,100.0 | 4,996.3 | 5,015.7 | 5,009.6 | 19.6 | 9.6 | 166.24 | 226.5 | -19.6 | 922.6 | 903.3 | 19.24 | 47.939 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design | | | | | | | | | | | | | S32-T2N-R64W (Newman) - Newman 2H-32H-C264 - HZ - Plan #1 | | Offset Site Error: | | 0.0 ft | | | | | | | | | | | | |
|------------------------|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|-----------------|-------------------------|--------------------------|---------------------------|----------------------|---|--|--------------------|--|--------|--|--|--|--|--|--|--|--|--------------------|--|--------|--|
| Survey Program: | | | | | | | | | | | | | 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | | 0.0 ft | |
| Reference | | | | Offset | | | | Semi Major Axis | | | | Distance | | | | | | | | | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | | | | | | | | | | | | | | | |
| 5,200.0 | 5,093.9 | 5,113.8 | 5,107.5 | 20.0 | 9.8 | 166.24 | 231.5 | -20.9 | 942.3 | 922.7 | 19.63 | 47.998 | | | | | | | | | | | | | | | | | |
| 5,300.0 | 5,191.6 | 5,211.8 | 5,205.4 | 20.4 | 10.0 | 166.24 | 236.6 | -22.2 | 962.0 | 942.0 | 20.02 | 48.055 | | | | | | | | | | | | | | | | | |
| 5,400.0 | 5,289.2 | 5,309.9 | 5,303.3 | 20.9 | 10.2 | 166.24 | 241.6 | -23.5 | 981.7 | 961.3 | 20.41 | 48.110 | | | | | | | | | | | | | | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2I-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | | | |
| 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 90.48 | -0.4 | 45.0 | 45.0 | | | | | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 90.48 | -0.4 | 45.0 | 45.0 | 44.8 | 0.25 | 181.729 | | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 90.48 | -0.4 | 45.0 | 45.0 | 44.4 | 0.60 | 75.455 | | |
| 300.0 | 300.0 | 302.0 | 302.0 | 0.5 | 0.5 | 90.48 | -0.4 | 45.0 | 45.0 | 44.1 | 0.95 | 47.612 CC, ES | | |
| 400.0 | 400.0 | 402.0 | 402.0 | 0.6 | 0.6 | 167.06 | -0.4 | 45.0 | 46.7 | 45.4 | 1.29 | 36.101 | | |
| 500.0 | 499.8 | 501.4 | 501.4 | 0.8 | 0.8 | 167.45 | 0.4 | 45.5 | 52.3 | 50.6 | 1.64 | 31.822 | | |
| 600.0 | 599.5 | 600.5 | 600.4 | 1.1 | 1.0 | 167.00 | 2.7 | 46.7 | 62.0 | 60.0 | 1.99 | 31.125 SF | | |
| 700.0 | 698.7 | 698.9 | 698.8 | 1.3 | 1.2 | 166.11 | 6.4 | 48.8 | 75.9 | 73.6 | 2.35 | 32.362 | | |
| 800.0 | 797.5 | 797.0 | 796.8 | 1.6 | 1.4 | 165.25 | 11.4 | 51.5 | 93.8 | 91.1 | 2.71 | 34.690 | | |
| 900.0 | 895.6 | 894.7 | 894.3 | 2.0 | 1.6 | 165.03 | 16.4 | 54.3 | 115.1 | 112.1 | 3.07 | 37.537 | | |
| 1,000.0 | 993.3 | 991.9 | 991.3 | 2.4 | 1.7 | 165.20 | 21.3 | 57.1 | 138.8 | 135.4 | 3.44 | 40.361 | | |
| 1,100.0 | 1,090.9 | 1,089.0 | 1,088.2 | 2.8 | 1.9 | 165.35 | 26.3 | 59.8 | 162.5 | 158.7 | 3.82 | 42.605 | | |
| 1,200.0 | 1,188.5 | 1,186.2 | 1,185.2 | 3.2 | 2.1 | 165.47 | 31.3 | 62.6 | 186.3 | 182.1 | 4.19 | 44.430 | | |
| 1,300.0 | 1,286.2 | 1,283.3 | 1,282.2 | 3.6 | 2.3 | 165.55 | 36.3 | 65.4 | 210.1 | 205.5 | 4.57 | 45.941 | | |
| 1,400.0 | 1,383.8 | 1,380.5 | 1,379.2 | 4.0 | 2.5 | 165.62 | 41.2 | 68.1 | 233.8 | 228.9 | 4.95 | 47.213 | | |
| 1,500.0 | 1,481.5 | 1,477.6 | 1,476.1 | 4.4 | 2.7 | 165.68 | 46.2 | 70.9 | 257.6 | 252.2 | 5.33 | 48.298 | | |
| 1,600.0 | 1,579.1 | 1,574.7 | 1,573.1 | 4.8 | 2.9 | 165.73 | 51.2 | 73.6 | 281.3 | 275.6 | 5.71 | 49.233 | | |
| 1,700.0 | 1,676.7 | 1,671.9 | 1,670.1 | 5.3 | 3.1 | 165.77 | 56.2 | 76.4 | 305.1 | 299.0 | 6.10 | 50.048 | | |
| 1,800.0 | 1,774.4 | 1,769.0 | 1,767.0 | 5.7 | 3.3 | 165.80 | 61.1 | 79.1 | 328.8 | 322.3 | 6.48 | 50.764 | | |
| 1,900.0 | 1,872.0 | 1,866.1 | 1,864.0 | 6.1 | 3.5 | 165.83 | 66.1 | 81.9 | 352.6 | 345.7 | 6.86 | 51.398 | | |
| 2,000.0 | 1,969.6 | 1,963.3 | 1,961.0 | 6.5 | 3.7 | 165.85 | 71.1 | 84.7 | 376.3 | 369.1 | 7.24 | 51.963 | | |
| 2,100.0 | 2,067.3 | 2,060.4 | 2,058.0 | 6.9 | 3.9 | 165.88 | 76.0 | 87.4 | 400.1 | 392.5 | 7.63 | 52.470 | | |
| 2,200.0 | 2,164.9 | 2,157.6 | 2,154.9 | 7.3 | 4.1 | 165.90 | 81.0 | 90.2 | 423.8 | 415.8 | 8.01 | 52.927 | | |
| 2,300.0 | 2,262.5 | 2,254.7 | 2,251.9 | 7.8 | 4.3 | 165.92 | 86.0 | 92.9 | 447.6 | 439.2 | 8.39 | 53.342 | | |
| 2,400.0 | 2,360.2 | 2,351.8 | 2,348.9 | 8.2 | 4.5 | 165.93 | 91.0 | 95.7 | 471.3 | 462.6 | 8.77 | 53.719 | | |
| 2,500.0 | 2,457.8 | 2,449.0 | 2,445.8 | 8.6 | 4.7 | 165.95 | 95.9 | 98.4 | 495.1 | 485.9 | 9.16 | 54.064 | | |
| 2,600.0 | 2,555.4 | 2,546.1 | 2,542.8 | 9.0 | 4.9 | 165.96 | 100.9 | 101.2 | 518.9 | 509.3 | 9.54 | 54.381 | | |
| 2,700.0 | 2,653.1 | 2,643.2 | 2,639.8 | 9.5 | 5.1 | 165.97 | 105.9 | 104.0 | 542.6 | 532.7 | 9.92 | 54.673 | | |
| 2,800.0 | 2,750.7 | 2,740.4 | 2,736.8 | 9.9 | 5.2 | 165.98 | 110.9 | 106.7 | 566.4 | 556.1 | 10.31 | 54.942 | | |
| 2,900.0 | 2,848.3 | 2,837.5 | 2,833.7 | 10.3 | 5.4 | 165.99 | 115.8 | 109.5 | 590.1 | 579.4 | 10.69 | 55.192 | | |
| 3,000.0 | 2,946.0 | 2,934.7 | 2,930.7 | 10.7 | 5.6 | 166.00 | 120.8 | 112.2 | 613.9 | 602.8 | 11.08 | 55.425 | | |
| 3,100.0 | 3,043.6 | 3,031.8 | 3,027.7 | 11.1 | 5.8 | 166.01 | 125.8 | 115.0 | 637.6 | 626.2 | 11.46 | 55.641 | | |
| 3,200.0 | 3,141.2 | 3,128.9 | 3,124.6 | 11.6 | 6.0 | 166.02 | 130.8 | 117.7 | 661.4 | 649.5 | 11.84 | 55.843 | | |
| 3,300.0 | 3,238.9 | 3,226.1 | 3,221.6 | 12.0 | 6.2 | 166.03 | 135.7 | 120.5 | 685.1 | 672.9 | 12.23 | 56.032 | | |
| 3,400.0 | 3,336.5 | 3,323.2 | 3,318.6 | 12.4 | 6.4 | 166.03 | 140.7 | 123.3 | 708.9 | 696.3 | 12.61 | 56.210 | | |
| 3,500.0 | 3,434.1 | 3,420.3 | 3,415.6 | 12.8 | 6.6 | 166.04 | 145.7 | 126.0 | 732.6 | 719.7 | 13.00 | 56.377 | | |
| 3,600.0 | 3,531.8 | 3,517.5 | 3,512.5 | 13.3 | 6.8 | 166.05 | 150.7 | 128.8 | 756.4 | 743.0 | 13.38 | 56.534 | | |
| 3,700.0 | 3,629.4 | 3,614.6 | 3,609.5 | 13.7 | 7.0 | 166.05 | 155.6 | 131.5 | 780.2 | 766.4 | 13.76 | 56.682 | | |
| 3,800.0 | 3,727.1 | 3,711.8 | 3,706.5 | 14.1 | 7.2 | 166.06 | 160.6 | 134.3 | 803.9 | 789.8 | 14.15 | 56.822 | | |
| 3,900.0 | 3,824.7 | 3,808.9 | 3,803.4 | 14.5 | 7.4 | 166.06 | 165.6 | 137.0 | 827.7 | 813.1 | 14.53 | 56.954 | | |
| 4,000.0 | 3,922.3 | 3,906.0 | 3,900.4 | 14.9 | 7.6 | 166.07 | 170.5 | 139.8 | 851.4 | 836.5 | 14.92 | 57.080 | | |
| 4,100.0 | 4,020.0 | 4,003.2 | 3,997.4 | 15.4 | 7.8 | 166.07 | 175.5 | 142.6 | 875.2 | 859.9 | 15.30 | 57.199 | | |
| 4,200.0 | 4,117.6 | 4,100.3 | 4,094.3 | 15.8 | 8.0 | 166.08 | 180.5 | 145.3 | 898.9 | 883.2 | 15.68 | 57.312 | | |
| 4,300.0 | 4,215.2 | 4,197.4 | 4,191.3 | 16.2 | 8.2 | 166.08 | 185.5 | 148.1 | 922.7 | 906.6 | 16.07 | 57.420 | | |
| 4,400.0 | 4,312.9 | 4,294.6 | 4,288.3 | 16.6 | 8.4 | 166.08 | 190.4 | 150.8 | 946.4 | 930.0 | 16.45 | 57.523 | | |
| 4,500.0 | 4,410.5 | 4,391.7 | 4,385.3 | 17.1 | 8.6 | 166.09 | 195.4 | 153.6 | 970.2 | 953.4 | 16.84 | 57.621 | | |
| 4,600.0 | 4,508.1 | 4,488.9 | 4,482.2 | 17.5 | 8.8 | 166.09 | 200.4 | 156.4 | 994.0 | 976.7 | 17.22 | 57.714 | | |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2J-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | | | |
| 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 90.42 | -0.4 | 52.6 | 52.6 | | | | | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 90.42 | -0.4 | 52.6 | 52.6 | 52.3 | 0.25 | 212.204 | | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 90.42 | -0.4 | 52.6 | 52.6 | 52.0 | 0.60 | 88.108 | | |
| 300.0 | 300.0 | 302.0 | 302.0 | 0.5 | 0.5 | 90.42 | -0.4 | 52.6 | 52.6 | 51.6 | 0.95 | 55.596 CC, ES | | |
| 400.0 | 400.0 | 401.6 | 401.6 | 0.6 | 0.6 | 166.79 | -0.3 | 52.8 | 54.5 | 53.2 | 1.29 | 42.099 | | |
| 500.0 | 499.8 | 500.6 | 500.6 | 0.8 | 0.8 | 166.88 | 0.8 | 54.2 | 61.0 | 59.3 | 1.64 | 37.157 | | |
| 600.0 | 599.5 | 599.0 | 598.9 | 1.1 | 1.0 | 166.73 | 2.8 | 56.9 | 72.2 | 70.2 | 1.99 | 36.321 SF | | |
| 700.0 | 698.7 | 696.6 | 696.4 | 1.3 | 1.2 | 166.45 | 5.8 | 61.0 | 88.2 | 85.9 | 2.34 | 37.728 | | |
| 800.0 | 797.5 | 793.2 | 792.7 | 1.6 | 1.4 | 166.11 | 9.8 | 66.4 | 108.8 | 106.2 | 2.69 | 40.465 | | |
| 900.0 | 895.6 | 888.9 | 888.1 | 2.0 | 1.6 | 165.80 | 14.6 | 72.9 | 134.0 | 131.0 | 3.05 | 44.009 | | |
| 1,000.0 | 993.3 | 985.0 | 983.8 | 2.4 | 1.8 | 165.78 | 19.6 | 79.7 | 161.8 | 158.4 | 3.41 | 47.415 | | |
| 1,100.0 | 1,090.9 | 1,081.0 | 1,079.5 | 2.8 | 2.0 | 165.80 | 24.6 | 86.6 | 189.7 | 185.9 | 3.79 | 50.112 | | |
| 1,200.0 | 1,188.5 | 1,177.0 | 1,175.1 | 3.2 | 2.2 | 165.81 | 29.6 | 93.4 | 217.6 | 213.4 | 4.16 | 52.302 | | |
| 1,300.0 | 1,286.2 | 1,273.1 | 1,270.8 | 3.6 | 2.4 | 165.83 | 34.6 | 100.2 | 245.5 | 240.9 | 4.54 | 54.114 | | |
| 1,400.0 | 1,383.8 | 1,369.1 | 1,366.4 | 4.0 | 2.7 | 165.84 | 39.7 | 107.1 | 273.4 | 268.4 | 4.91 | 55.636 | | |
| 1,500.0 | 1,481.5 | 1,465.1 | 1,462.1 | 4.4 | 2.9 | 165.84 | 44.7 | 113.9 | 301.2 | 295.9 | 5.29 | 56.932 | | |
| 1,600.0 | 1,579.1 | 1,561.2 | 1,557.7 | 4.8 | 3.1 | 165.85 | 49.7 | 120.7 | 329.1 | 323.5 | 5.67 | 58.048 | | |
| 1,700.0 | 1,676.7 | 1,657.2 | 1,653.4 | 5.3 | 3.3 | 165.86 | 54.7 | 127.5 | 357.0 | 351.0 | 6.05 | 59.019 | | |
| 1,800.0 | 1,774.4 | 1,753.2 | 1,749.1 | 5.7 | 3.5 | 165.86 | 59.8 | 134.4 | 384.9 | 378.5 | 6.43 | 59.872 | | |
| 1,900.0 | 1,872.0 | 1,849.3 | 1,844.7 | 6.1 | 3.7 | 165.86 | 64.8 | 141.2 | 412.8 | 406.0 | 6.81 | 60.625 | | |
| 2,000.0 | 1,969.6 | 1,945.3 | 1,940.4 | 6.5 | 4.0 | 165.87 | 69.8 | 148.0 | 440.7 | 433.5 | 7.19 | 61.297 | | |
| 2,100.0 | 2,067.3 | 2,041.3 | 2,036.0 | 6.9 | 4.2 | 165.87 | 74.8 | 154.8 | 468.5 | 461.0 | 7.57 | 61.899 | | |
| 2,200.0 | 2,164.9 | 2,137.4 | 2,131.7 | 7.3 | 4.4 | 165.87 | 79.8 | 161.7 | 496.4 | 488.5 | 7.95 | 62.441 | | |
| 2,300.0 | 2,262.5 | 2,233.4 | 2,227.4 | 7.8 | 4.6 | 165.88 | 84.9 | 168.5 | 524.3 | 516.0 | 8.33 | 62.932 | | |
| 2,400.0 | 2,360.2 | 2,329.4 | 2,323.0 | 8.2 | 4.9 | 165.88 | 89.9 | 175.3 | 552.2 | 543.5 | 8.71 | 63.379 | | |
| 2,500.0 | 2,457.8 | 2,425.5 | 2,418.7 | 8.6 | 5.1 | 165.88 | 94.9 | 182.2 | 580.1 | 571.0 | 9.09 | 63.788 | | |
| 2,600.0 | 2,555.4 | 2,521.5 | 2,514.3 | 9.0 | 5.3 | 165.88 | 99.9 | 189.0 | 608.0 | 598.5 | 9.48 | 64.163 | | |
| 2,700.0 | 2,653.1 | 2,617.5 | 2,610.0 | 9.5 | 5.5 | 165.88 | 105.0 | 195.8 | 635.9 | 626.0 | 9.86 | 64.507 | | |
| 2,800.0 | 2,750.7 | 2,713.6 | 2,705.7 | 9.9 | 5.7 | 165.88 | 110.0 | 202.6 | 663.7 | 653.5 | 10.24 | 64.826 | | |
| 2,900.0 | 2,848.3 | 2,809.6 | 2,801.3 | 10.3 | 6.0 | 165.89 | 115.0 | 209.5 | 691.6 | 681.0 | 10.62 | 65.121 | | |
| 3,000.0 | 2,946.0 | 2,905.6 | 2,897.0 | 10.7 | 6.2 | 165.89 | 120.0 | 216.3 | 719.5 | 708.5 | 11.00 | 65.395 | | |
| 3,100.0 | 3,043.6 | 3,001.7 | 2,992.6 | 11.1 | 6.4 | 165.89 | 125.0 | 223.1 | 747.4 | 736.0 | 11.38 | 65.650 | | |
| 3,200.0 | 3,141.2 | 3,097.7 | 3,088.3 | 11.6 | 6.6 | 165.89 | 130.1 | 230.0 | 775.3 | 763.5 | 11.77 | 65.889 | | |
| 3,300.0 | 3,238.9 | 3,193.7 | 3,183.9 | 12.0 | 6.9 | 165.89 | 135.1 | 236.8 | 803.2 | 791.0 | 12.15 | 66.112 | | |
| 3,400.0 | 3,336.5 | 3,289.8 | 3,279.6 | 12.4 | 7.1 | 165.89 | 140.1 | 243.6 | 831.1 | 818.5 | 12.53 | 66.321 | | |
| 3,500.0 | 3,434.1 | 3,385.8 | 3,375.3 | 12.8 | 7.3 | 165.89 | 145.1 | 250.4 | 858.9 | 846.0 | 12.91 | 66.517 | | |
| 3,600.0 | 3,531.8 | 3,481.8 | 3,470.9 | 13.3 | 7.5 | 165.89 | 150.1 | 257.3 | 886.8 | 873.5 | 13.30 | 66.702 | | |
| 3,700.0 | 3,629.4 | 3,577.9 | 3,566.6 | 13.7 | 7.8 | 165.89 | 155.2 | 264.1 | 914.7 | 901.0 | 13.68 | 66.877 | | |
| 3,800.0 | 3,727.1 | 3,673.9 | 3,662.2 | 14.1 | 8.0 | 165.89 | 160.2 | 270.9 | 942.6 | 928.5 | 14.06 | 67.041 | | |
| 3,900.0 | 3,824.7 | 3,769.9 | 3,757.9 | 14.5 | 8.2 | 165.90 | 165.2 | 277.7 | 970.5 | 956.0 | 14.44 | 67.197 | | |
| 4,000.0 | 3,922.3 | 3,866.0 | 3,853.6 | 14.9 | 8.4 | 165.90 | 170.2 | 284.6 | 998.4 | 983.5 | 14.82 | 67.345 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2K-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 90.38 | -0.4 | 59.9 | 59.9 | | | | | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 90.38 | -0.4 | 59.9 | 59.9 | 59.6 | 0.25 | 241.550 | | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 90.38 | -0.4 | 59.9 | 59.9 | 59.3 | 0.60 | 100.293 | | |
| 266.0 | 266.0 | 268.0 | 268.0 | 0.4 | 0.4 | 90.38 | -0.4 | 59.9 | 59.9 | 59.0 | 0.83 | 72.367 | CC | |
| 300.0 | 300.0 | 302.0 | 302.0 | 0.5 | 0.5 | 90.38 | -0.4 | 59.9 | 59.9 | 58.9 | 0.95 | 63.286 | ES | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.6 | 0.6 | 166.49 | 0.0 | 60.7 | 62.4 | 61.1 | 1.29 | 48.237 | | |
| 500.0 | 499.8 | 500.0 | 500.0 | 0.8 | 0.8 | 166.54 | 1.1 | 63.0 | 69.8 | 68.2 | 1.64 | 42.573 | | |
| 600.0 | 599.5 | 597.7 | 597.6 | 1.1 | 1.0 | 166.61 | 2.8 | 66.9 | 82.2 | 80.2 | 1.99 | 41.392 | SF | |
| 700.0 | 698.7 | 694.8 | 694.5 | 1.3 | 1.2 | 166.66 | 5.3 | 72.2 | 99.5 | 97.1 | 2.33 | 42.644 | | |
| 800.0 | 797.5 | 790.7 | 790.1 | 1.6 | 1.4 | 166.70 | 8.4 | 78.9 | 121.6 | 118.9 | 2.68 | 45.367 | | |
| 900.0 | 895.6 | 885.0 | 884.0 | 2.0 | 1.6 | 166.70 | 12.1 | 87.0 | 148.4 | 145.4 | 3.03 | 49.028 | | |
| 1,000.0 | 993.3 | 977.9 | 976.3 | 2.4 | 1.8 | 166.72 | 16.4 | 96.2 | 178.9 | 175.6 | 3.38 | 52.883 | | |
| 1,100.0 | 1,090.9 | 1,070.8 | 1,068.4 | 2.8 | 2.1 | 166.59 | 21.3 | 106.8 | 210.9 | 207.1 | 3.75 | 56.266 | | |
| 1,200.0 | 1,188.5 | 1,165.4 | 1,162.3 | 3.2 | 2.3 | 166.45 | 26.4 | 117.9 | 243.2 | 239.1 | 4.12 | 59.041 | | |
| 1,300.0 | 1,286.2 | 1,260.0 | 1,256.2 | 3.6 | 2.6 | 166.35 | 31.5 | 128.9 | 275.4 | 271.0 | 4.49 | 61.335 | | |
| 1,400.0 | 1,383.8 | 1,354.7 | 1,350.0 | 4.0 | 2.8 | 166.26 | 36.6 | 140.0 | 307.7 | 302.9 | 4.86 | 63.261 | | |
| 1,500.0 | 1,481.5 | 1,449.3 | 1,443.9 | 4.4 | 3.1 | 166.19 | 41.7 | 151.1 | 340.0 | 334.8 | 5.24 | 64.899 | | |
| 1,600.0 | 1,579.1 | 1,544.0 | 1,537.7 | 4.8 | 3.4 | 166.14 | 46.8 | 162.1 | 372.3 | 366.7 | 5.61 | 66.308 | | |
| 1,700.0 | 1,676.7 | 1,638.6 | 1,631.6 | 5.3 | 3.6 | 166.09 | 51.9 | 173.2 | 404.5 | 398.6 | 5.99 | 67.533 | | |
| 1,800.0 | 1,774.4 | 1,733.3 | 1,725.5 | 5.7 | 3.9 | 166.05 | 57.0 | 184.3 | 436.8 | 430.5 | 6.37 | 68.607 | | |
| 1,900.0 | 1,872.0 | 1,827.9 | 1,819.3 | 6.1 | 4.2 | 166.02 | 62.1 | 195.3 | 469.1 | 462.4 | 6.74 | 69.557 | | |
| 2,000.0 | 1,969.6 | 1,922.6 | 1,913.2 | 6.5 | 4.4 | 165.99 | 67.3 | 206.4 | 501.4 | 494.3 | 7.12 | 70.402 | | |
| 2,100.0 | 2,067.3 | 2,017.2 | 2,007.0 | 6.9 | 4.7 | 165.96 | 72.4 | 217.5 | 533.7 | 526.2 | 7.50 | 71.158 | | |
| 2,200.0 | 2,164.9 | 2,111.9 | 2,100.9 | 7.3 | 5.0 | 165.94 | 77.5 | 228.5 | 565.9 | 558.0 | 7.88 | 71.840 | | |
| 2,300.0 | 2,262.5 | 2,206.5 | 2,194.8 | 7.8 | 5.2 | 165.92 | 82.6 | 239.6 | 598.2 | 589.9 | 8.26 | 72.457 | | |
| 2,400.0 | 2,360.2 | 2,301.2 | 2,288.6 | 8.2 | 5.5 | 165.90 | 87.7 | 250.7 | 630.5 | 621.8 | 8.63 | 73.017 | | |
| 2,500.0 | 2,457.8 | 2,395.8 | 2,382.5 | 8.6 | 5.8 | 165.88 | 92.8 | 261.7 | 662.8 | 653.7 | 9.01 | 73.530 | | |
| 2,600.0 | 2,555.4 | 2,490.5 | 2,476.3 | 9.0 | 6.0 | 165.87 | 97.9 | 272.8 | 695.0 | 685.6 | 9.39 | 73.999 | | |
| 2,700.0 | 2,653.1 | 2,585.1 | 2,570.2 | 9.5 | 6.3 | 165.85 | 103.0 | 283.9 | 727.3 | 717.5 | 9.77 | 74.431 | | |
| 2,800.0 | 2,750.7 | 2,679.8 | 2,664.0 | 9.9 | 6.6 | 165.84 | 108.1 | 295.0 | 759.6 | 749.4 | 10.15 | 74.830 | | |
| 2,900.0 | 2,848.3 | 2,774.4 | 2,757.9 | 10.3 | 6.8 | 165.83 | 113.3 | 306.0 | 791.9 | 781.3 | 10.53 | 75.199 | | |
| 3,000.0 | 2,946.0 | 2,869.1 | 2,851.8 | 10.7 | 7.1 | 165.82 | 118.4 | 317.1 | 824.1 | 813.2 | 10.91 | 75.542 | | |
| 3,100.0 | 3,043.6 | 2,963.7 | 2,945.6 | 11.1 | 7.4 | 165.81 | 123.5 | 328.2 | 856.4 | 845.1 | 11.29 | 75.862 | | |
| 3,200.0 | 3,141.2 | 3,058.4 | 3,039.5 | 11.6 | 7.6 | 165.80 | 128.6 | 339.2 | 888.7 | 877.0 | 11.67 | 76.159 | | |
| 3,300.0 | 3,238.9 | 3,153.0 | 3,133.3 | 12.0 | 7.9 | 165.79 | 133.7 | 350.3 | 921.0 | 908.9 | 12.05 | 76.438 | | |
| 3,400.0 | 3,336.5 | 3,247.6 | 3,227.2 | 12.4 | 8.2 | 165.78 | 138.8 | 361.4 | 953.3 | 940.8 | 12.43 | 76.699 | | |
| 3,500.0 | 3,434.1 | 3,342.3 | 3,321.1 | 12.8 | 8.4 | 165.78 | 143.9 | 372.4 | 985.5 | 972.7 | 12.81 | 76.945 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

| Offset Design S32-T2N-R64W (Newman) - Newman 2L-32H-C264 - HZ - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 0.0 | 0.0 | 2.0 | 2.0 | 0.0 | 0.0 | 90.62 | -0.7 | 67.4 | 67.4 | | | | | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 90.62 | -0.7 | 67.4 | 67.4 | 67.2 | 0.25 | 272.036 | | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 90.62 | -0.7 | 67.4 | 67.4 | 66.8 | 0.60 | 112.951 | | |
| 230.6 | 230.6 | 232.6 | 232.6 | 0.4 | 0.4 | 90.62 | -0.7 | 67.4 | 67.4 | 66.7 | 0.70 | 95.821 CC | | |
| 300.0 | 300.0 | 301.4 | 301.4 | 0.5 | 0.5 | 90.55 | -0.7 | 67.6 | 67.6 | 66.7 | 0.95 | 71.573 ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | 166.49 | -0.1 | 69.3 | 71.0 | 69.7 | 1.29 | 54.979 | | |
| 500.0 | 499.8 | 498.7 | 498.6 | 0.8 | 0.8 | 166.52 | 1.0 | 72.5 | 79.4 | 77.7 | 1.64 | 48.457 | | |
| 600.0 | 599.5 | 596.4 | 596.2 | 1.1 | 1.0 | 166.66 | 2.6 | 77.3 | 92.7 | 90.7 | 1.98 | 46.751 SF | | |
| 700.0 | 698.7 | 693.1 | 692.6 | 1.3 | 1.2 | 166.86 | 4.7 | 83.6 | 111.0 | 108.7 | 2.33 | 47.689 | | |
| 800.0 | 797.5 | 788.4 | 787.6 | 1.6 | 1.4 | 167.05 | 7.3 | 91.4 | 134.2 | 131.5 | 2.67 | 50.227 | | |
| 900.0 | 895.6 | 882.1 | 880.9 | 2.0 | 1.6 | 167.20 | 10.4 | 100.4 | 162.1 | 159.1 | 3.01 | 53.799 | | |
| 1,000.0 | 993.3 | 974.3 | 972.4 | 2.4 | 1.9 | 167.38 | 13.9 | 110.7 | 193.9 | 190.5 | 3.36 | 57.620 | | |
| 1,100.0 | 1,090.9 | 1,065.5 | 1,062.7 | 2.8 | 2.1 | 167.39 | 17.8 | 122.3 | 227.1 | 223.4 | 3.72 | 61.043 | | |
| 1,200.0 | 1,188.5 | 1,155.7 | 1,151.9 | 3.2 | 2.4 | 167.29 | 22.1 | 135.1 | 261.8 | 257.7 | 4.08 | 64.178 | | |
| 1,300.0 | 1,286.2 | 1,244.9 | 1,239.9 | 3.6 | 2.7 | 167.11 | 26.8 | 149.1 | 297.8 | 293.3 | 4.44 | 67.094 | | |
| 1,400.0 | 1,383.8 | 1,336.8 | 1,330.4 | 4.0 | 3.0 | 166.90 | 31.9 | 164.4 | 334.7 | 329.9 | 4.81 | 69.656 | | |
| 1,500.0 | 1,481.5 | 1,429.7 | 1,421.9 | 4.4 | 3.3 | 166.73 | 37.1 | 179.9 | 371.7 | 366.5 | 5.18 | 71.821 | | |
| 1,600.0 | 1,579.1 | 1,522.6 | 1,513.3 | 4.8 | 3.6 | 166.59 | 42.3 | 195.4 | 408.7 | 403.2 | 5.55 | 73.683 | | |
| 1,700.0 | 1,676.7 | 1,615.5 | 1,604.8 | 5.3 | 3.9 | 166.47 | 47.6 | 210.9 | 445.7 | 439.8 | 5.92 | 75.302 | | |
| 1,800.0 | 1,774.4 | 1,708.4 | 1,696.2 | 5.7 | 4.3 | 166.38 | 52.8 | 226.4 | 482.7 | 476.4 | 6.29 | 76.720 | | |
| 1,900.0 | 1,872.0 | 1,801.3 | 1,787.7 | 6.1 | 4.6 | 166.29 | 58.0 | 241.9 | 519.7 | 513.0 | 6.67 | 77.974 | | |
| 2,000.0 | 1,969.6 | 1,894.2 | 1,879.1 | 6.5 | 4.9 | 166.22 | 63.2 | 257.4 | 556.7 | 549.7 | 7.04 | 79.089 | | |
| 2,100.0 | 2,067.3 | 1,987.1 | 1,970.6 | 6.9 | 5.2 | 166.15 | 68.4 | 272.9 | 593.7 | 586.3 | 7.41 | 80.087 | | |
| 2,200.0 | 2,164.9 | 2,080.0 | 2,062.0 | 7.3 | 5.6 | 166.10 | 73.6 | 288.4 | 630.7 | 622.9 | 7.79 | 80.986 | | |
| 2,300.0 | 2,262.5 | 2,172.9 | 2,153.5 | 7.8 | 5.9 | 166.05 | 78.9 | 303.9 | 667.7 | 659.6 | 8.16 | 81.800 | | |
| 2,400.0 | 2,360.2 | 2,265.8 | 2,244.9 | 8.2 | 6.2 | 166.00 | 84.1 | 319.4 | 704.7 | 696.2 | 8.54 | 82.540 | | |
| 2,500.0 | 2,457.8 | 2,358.7 | 2,336.4 | 8.6 | 6.5 | 165.96 | 89.3 | 334.9 | 741.7 | 732.8 | 8.91 | 83.215 | | |
| 2,600.0 | 2,555.4 | 2,451.6 | 2,427.8 | 9.0 | 6.9 | 165.92 | 94.5 | 350.4 | 778.7 | 769.4 | 9.29 | 83.834 | | |
| 2,700.0 | 2,653.1 | 2,544.5 | 2,519.3 | 9.5 | 7.2 | 165.89 | 99.7 | 365.9 | 815.7 | 806.1 | 9.66 | 84.404 | | |
| 2,800.0 | 2,750.7 | 2,637.4 | 2,610.7 | 9.9 | 7.5 | 165.86 | 104.9 | 381.4 | 852.7 | 842.7 | 10.04 | 84.929 | | |
| 2,900.0 | 2,848.3 | 2,730.4 | 2,702.2 | 10.3 | 7.9 | 165.83 | 110.2 | 396.9 | 889.7 | 879.3 | 10.42 | 85.416 | | |
| 3,000.0 | 2,946.0 | 2,823.3 | 2,793.6 | 10.7 | 8.2 | 165.81 | 115.4 | 412.4 | 926.7 | 915.9 | 10.79 | 85.868 | | |
| 3,100.0 | 3,043.6 | 2,916.2 | 2,885.1 | 11.1 | 8.5 | 165.78 | 120.6 | 427.9 | 963.7 | 952.6 | 11.17 | 86.288 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Newman 2C-32H-C264 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Reference Site: | S32-T2N-R64W (Newman) | MD Reference: | WELL @ 4983.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Newman 2C-32H-C264 | Survey Calculation Method: | Minimum Curvature |
| Well Error: | 0.0ft | Output errors are at | 2.00 sigma |
| Reference Wellbore | HZ | Database: | USA EDM 5000 Multi Users DB |
| Reference Design: | Plan #1 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 4983.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Newman 2C-32H-C264

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.60°

