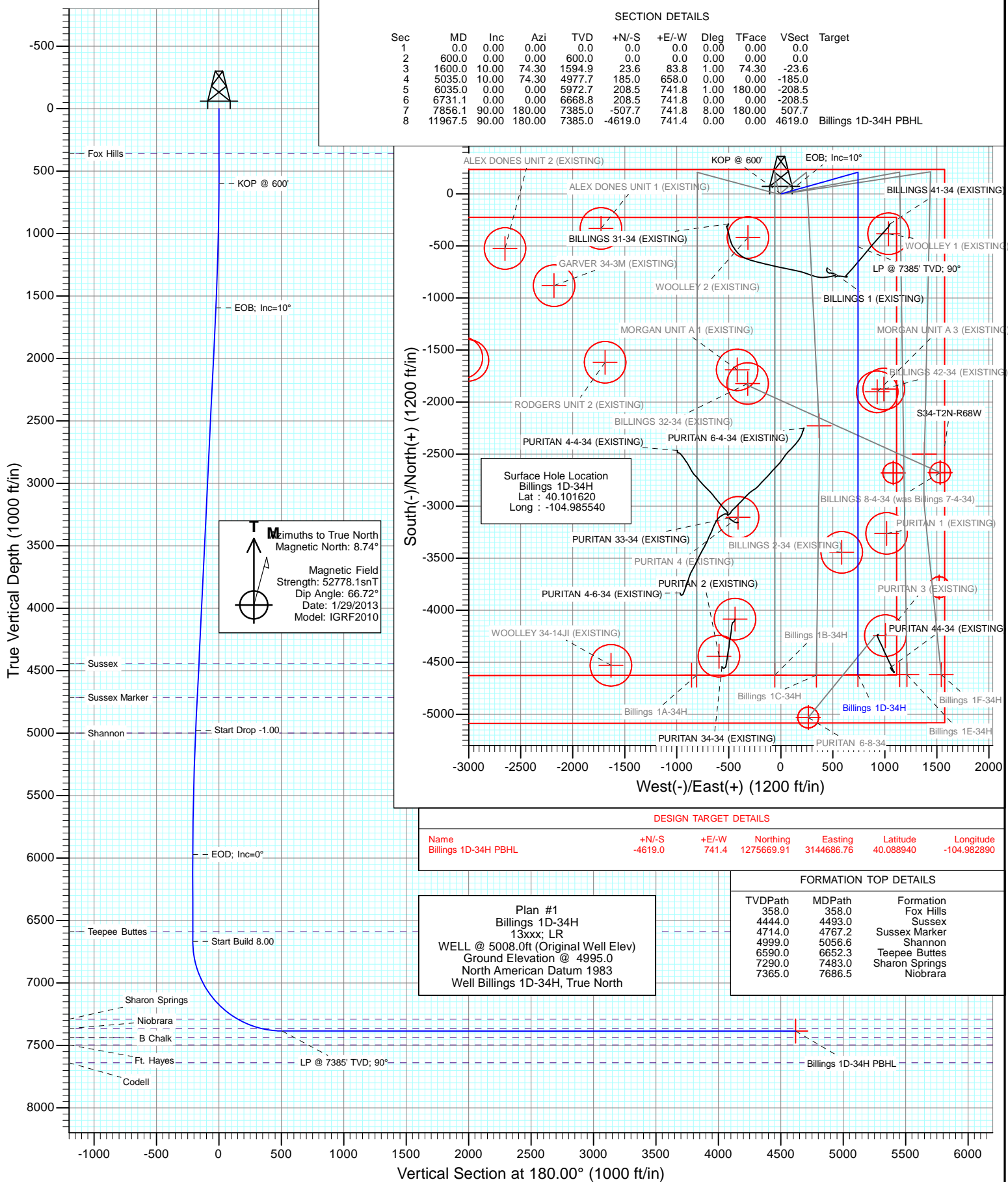




Project: DJ Wattenberg
Site: S34-T2N-R68W (Billings)
Well: Billings 1D-34H
Wellbore: Hz
Design: Plan #1



Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site: | S34-T2N-R68W (Billings) | North Reference: | True |
| Well: | Billings 1D-34H | 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 | | S34-T2N-R68W (Billings) | | | |
|-----------------------|----------|-------------------------|-----------------|-------------------|-------------|
| Site Position: | | Northing: | 1,280,284.39 ft | Latitude: | 40.101620 |
| From: | Lat/Long | Easting: | 3,143,887.76 ft | Longitude: | -104.985650 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.33 ° |

| Well | Billings 1D-34H | | | | | |
|----------------------|-----------------|--------|---------------------|-----------------|---------------|-------------|
| Well Position | +N/-S | 0.0 ft | Northing: | 1,280,284.54 ft | Latitude: | 40.101620 |
| | +E/-W | 0.0 ft | Easting: | 3,143,918.53 ft | Longitude: | -104.985540 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,995.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|----------------------------|--------------------------|--------------------------------|
| Wellbore | Hz | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 1/29/2013 | 8.74 | 66.72 | 52,778 |

| | | | | |
|--------------------------|----------------------------------|-----------------------|-----------------------|--------------------------|
| 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 | |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,600.0 | 10.00 | 74.30 | 1,594.9 | 23.6 | 83.8 | 1.00 | 1.00 | 0.00 | 74.30 | |
| 5,035.0 | 10.00 | 74.30 | 4,977.7 | 185.0 | 658.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 6,035.0 | 0.00 | 0.00 | 5,972.7 | 208.5 | 741.8 | 1.00 | -1.00 | 0.00 | 180.00 | |
| 6,731.1 | 0.00 | 0.00 | 6,668.8 | 208.5 | 741.8 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,856.1 | 90.00 | 180.00 | 7,385.0 | -507.7 | 741.8 | 8.00 | 8.00 | 0.00 | 180.00 | |
| 11,967.5 | 90.00 | 180.00 | 7,385.0 | -4,619.0 | 741.4 | 0.00 | 0.00 | 0.00 | 0.00 | Billings 1D-34H PBHL |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site: | S34-T2N-R68W (Billings) | North Reference: | True |
| Well: | Billings 1D-34H | 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 | |
| 358.0 | 0.00 | 0.00 | 358.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | Fox Hills |
| 400.0 | 0.00 | 0.00 | 400.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 500.0 | 0.00 | 0.00 | 500.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 600.0 | 0.00 | 0.00 | 600.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 600' |
| 700.0 | 1.00 | 74.30 | 700.0 | 0.2 | 0.8 | -0.2 | 1.00 | 1.00 | |
| 800.0 | 2.00 | 74.30 | 800.0 | 0.9 | 3.4 | -0.9 | 1.00 | 1.00 | |
| 900.0 | 3.00 | 74.30 | 899.9 | 2.1 | 7.6 | -2.1 | 1.00 | 1.00 | |
| 1,000.0 | 4.00 | 74.30 | 999.7 | 3.8 | 13.4 | -3.8 | 1.00 | 1.00 | |
| 1,100.0 | 5.00 | 74.30 | 1,099.4 | 5.9 | 21.0 | -5.9 | 1.00 | 1.00 | |
| 1,200.0 | 6.00 | 74.30 | 1,198.9 | 8.5 | 30.2 | -8.5 | 1.00 | 1.00 | |
| 1,300.0 | 7.00 | 74.30 | 1,298.3 | 11.6 | 41.1 | -11.6 | 1.00 | 1.00 | |
| 1,400.0 | 8.00 | 74.30 | 1,397.4 | 15.1 | 53.7 | -15.1 | 1.00 | 1.00 | |
| 1,500.0 | 9.00 | 74.30 | 1,496.3 | 19.1 | 67.9 | -19.1 | 1.00 | 1.00 | |
| 1,600.0 | 10.00 | 74.30 | 1,594.9 | 23.6 | 83.8 | -23.6 | 1.00 | 1.00 | EOB; Inc=10° |
| 1,700.0 | 10.00 | 74.30 | 1,693.4 | 28.3 | 100.5 | -28.3 | 0.00 | 0.00 | |
| 1,800.0 | 10.00 | 74.30 | 1,791.9 | 33.0 | 117.2 | -33.0 | 0.00 | 0.00 | |
| 1,900.0 | 10.00 | 74.30 | 1,890.4 | 37.7 | 133.9 | -37.7 | 0.00 | 0.00 | |
| 2,000.0 | 10.00 | 74.30 | 1,988.9 | 42.4 | 150.7 | -42.4 | 0.00 | 0.00 | |
| 2,100.0 | 10.00 | 74.30 | 2,087.3 | 47.0 | 167.4 | -47.0 | 0.00 | 0.00 | |
| 2,200.0 | 10.00 | 74.30 | 2,185.8 | 51.7 | 184.1 | -51.7 | 0.00 | 0.00 | |
| 2,300.0 | 10.00 | 74.30 | 2,284.3 | 56.4 | 200.8 | -56.4 | 0.00 | 0.00 | |
| 2,400.0 | 10.00 | 74.30 | 2,382.8 | 61.1 | 217.5 | -61.1 | 0.00 | 0.00 | |
| 2,500.0 | 10.00 | 74.30 | 2,481.3 | 65.8 | 234.3 | -65.8 | 0.00 | 0.00 | |
| 2,600.0 | 10.00 | 74.30 | 2,579.7 | 70.5 | 251.0 | -70.5 | 0.00 | 0.00 | |
| 2,700.0 | 10.00 | 74.30 | 2,678.2 | 75.2 | 267.7 | -75.2 | 0.00 | 0.00 | |
| 2,800.0 | 10.00 | 74.30 | 2,776.7 | 79.9 | 284.4 | -79.9 | 0.00 | 0.00 | |
| 2,900.0 | 10.00 | 74.30 | 2,875.2 | 84.6 | 301.1 | -84.6 | 0.00 | 0.00 | |
| 3,000.0 | 10.00 | 74.30 | 2,973.7 | 89.3 | 317.8 | -89.3 | 0.00 | 0.00 | |
| 3,100.0 | 10.00 | 74.30 | 3,072.1 | 94.0 | 334.6 | -94.0 | 0.00 | 0.00 | |
| 3,200.0 | 10.00 | 74.30 | 3,170.6 | 98.7 | 351.3 | -98.7 | 0.00 | 0.00 | |
| 3,300.0 | 10.00 | 74.30 | 3,269.1 | 103.4 | 368.0 | -103.4 | 0.00 | 0.00 | |
| 3,400.0 | 10.00 | 74.30 | 3,367.6 | 108.1 | 384.7 | -108.1 | 0.00 | 0.00 | |
| 3,500.0 | 10.00 | 74.30 | 3,466.1 | 112.8 | 401.4 | -112.8 | 0.00 | 0.00 | |
| 3,600.0 | 10.00 | 74.30 | 3,564.5 | 117.5 | 418.1 | -117.5 | 0.00 | 0.00 | |
| 3,700.0 | 10.00 | 74.30 | 3,663.0 | 122.2 | 434.9 | -122.2 | 0.00 | 0.00 | |
| 3,800.0 | 10.00 | 74.30 | 3,761.5 | 126.9 | 451.6 | -126.9 | 0.00 | 0.00 | |
| 3,900.0 | 10.00 | 74.30 | 3,860.0 | 131.6 | 468.3 | -131.6 | 0.00 | 0.00 | |
| 4,000.0 | 10.00 | 74.30 | 3,958.5 | 136.3 | 485.0 | -136.3 | 0.00 | 0.00 | |
| 4,100.0 | 10.00 | 74.30 | 4,057.0 | 141.0 | 501.7 | -141.0 | 0.00 | 0.00 | |
| 4,200.0 | 10.00 | 74.30 | 4,155.4 | 145.7 | 518.4 | -145.7 | 0.00 | 0.00 | |
| 4,300.0 | 10.00 | 74.30 | 4,253.9 | 150.4 | 535.2 | -150.4 | 0.00 | 0.00 | |
| 4,400.0 | 10.00 | 74.30 | 4,352.4 | 155.1 | 551.9 | -155.1 | 0.00 | 0.00 | |
| 4,493.0 | 10.00 | 74.30 | 4,444.0 | 159.5 | 567.4 | -159.5 | 0.00 | 0.00 | Sussex |
| 4,500.0 | 10.00 | 74.30 | 4,450.9 | 159.8 | 568.6 | -159.8 | 0.00 | 0.00 | |
| 4,600.0 | 10.00 | 74.30 | 4,549.4 | 164.5 | 585.3 | -164.5 | 0.00 | 0.00 | |
| 4,700.0 | 10.00 | 74.30 | 4,647.8 | 169.2 | 602.0 | -169.2 | 0.00 | 0.00 | |
| 4,767.2 | 10.00 | 74.30 | 4,714.0 | 172.4 | 613.3 | -172.4 | 0.00 | 0.00 | Sussex Marker |
| 4,800.0 | 10.00 | 74.30 | 4,746.3 | 173.9 | 618.7 | -173.9 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site: | S34-T2N-R68W (Billings) | North Reference: | True |
| Well: | Billings 1D-34H | 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 |
| 4,900.0 | 10.00 | 74.30 | 4,844.8 | 178.6 | 635.5 | -178.6 | 0.00 | 0.00 | |
| 5,000.0 | 10.00 | 74.30 | 4,943.3 | 183.3 | 652.2 | -183.3 | 0.00 | 0.00 | |
| 5,035.0 | 10.00 | 74.30 | 4,977.7 | 185.0 | 658.0 | -185.0 | 0.00 | 0.00 | Start Drop -1.00 |
| 5,056.6 | 9.78 | 74.30 | 4,999.0 | 186.0 | 661.6 | -186.0 | 1.00 | -1.00 | Shannon |
| 5,100.0 | 9.35 | 74.30 | 5,041.8 | 187.9 | 668.5 | -187.9 | 1.00 | -1.00 | |
| 5,200.0 | 8.35 | 74.30 | 5,140.6 | 192.1 | 683.4 | -192.1 | 1.00 | -1.00 | |
| 5,300.0 | 7.35 | 74.30 | 5,239.7 | 195.8 | 696.5 | -195.8 | 1.00 | -1.00 | |
| 5,400.0 | 6.35 | 74.30 | 5,339.0 | 199.0 | 708.0 | -199.0 | 1.00 | -1.00 | |
| 5,500.0 | 5.35 | 74.30 | 5,438.5 | 201.8 | 717.8 | -201.8 | 1.00 | -1.00 | |
| 5,600.0 | 4.35 | 74.30 | 5,538.1 | 204.1 | 725.9 | -204.1 | 1.00 | -1.00 | |
| 5,700.0 | 3.35 | 74.30 | 5,637.9 | 205.9 | 732.4 | -205.9 | 1.00 | -1.00 | |
| 5,800.0 | 2.35 | 74.30 | 5,737.7 | 207.2 | 737.2 | -207.2 | 1.00 | -1.00 | |
| 5,900.0 | 1.35 | 74.30 | 5,837.7 | 208.1 | 740.3 | -208.1 | 1.00 | -1.00 | |
| 6,000.0 | 0.35 | 74.30 | 5,937.7 | 208.5 | 741.7 | -208.5 | 1.00 | -1.00 | |
| 6,035.0 | 0.00 | 0.00 | 5,972.7 | 208.5 | 741.8 | -208.5 | 1.00 | -1.00 | EOD; Inc=0° |
| 6,100.0 | 0.00 | 0.00 | 6,037.7 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | |
| 6,200.0 | 0.00 | 0.00 | 6,137.7 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | |
| 6,300.0 | 0.00 | 0.00 | 6,237.7 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | |
| 6,400.0 | 0.00 | 0.00 | 6,337.7 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | |
| 6,500.0 | 0.00 | 0.00 | 6,437.7 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | |
| 6,600.0 | 0.00 | 0.00 | 6,537.7 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | |
| 6,652.3 | 0.00 | 0.00 | 6,590.0 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | Teepee Buttes |
| 6,700.0 | 0.00 | 0.00 | 6,637.7 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | |
| 6,731.1 | 0.00 | 0.00 | 6,668.8 | 208.5 | 741.8 | -208.5 | 0.00 | 0.00 | Start Build 8.00 |
| 6,800.0 | 5.51 | 180.00 | 6,737.6 | 205.2 | 741.8 | -205.2 | 8.00 | 8.00 | |
| 6,900.0 | 13.51 | 180.00 | 6,836.1 | 188.7 | 741.8 | -188.7 | 8.00 | 8.00 | |
| 7,000.0 | 21.51 | 180.00 | 6,931.4 | 158.6 | 741.8 | -158.6 | 8.00 | 8.00 | |
| 7,100.0 | 29.51 | 180.00 | 7,021.6 | 115.6 | 741.8 | -115.6 | 8.00 | 8.00 | |
| 7,200.0 | 37.51 | 180.00 | 7,104.9 | 60.4 | 741.8 | -60.4 | 8.00 | 8.00 | |
| 7,300.0 | 45.51 | 180.00 | 7,179.7 | -5.8 | 741.8 | 5.8 | 8.00 | 8.00 | |
| 7,400.0 | 53.51 | 180.00 | 7,244.6 | -81.8 | 741.8 | 81.8 | 8.00 | 8.00 | |
| 7,483.0 | 60.15 | 180.00 | 7,290.0 | -151.2 | 741.8 | 151.2 | 8.00 | 8.00 | Sharon Springs |
| 7,500.0 | 61.51 | 180.00 | 7,298.3 | -166.0 | 741.8 | 166.0 | 8.00 | 8.00 | |
| 7,600.0 | 69.51 | 180.00 | 7,339.7 | -257.0 | 741.8 | 257.0 | 8.00 | 8.00 | |
| 7,686.5 | 76.43 | 180.00 | 7,365.0 | -339.6 | 741.8 | 339.6 | 8.00 | 8.00 | Niobrara |
| 7,700.0 | 77.51 | 180.00 | 7,368.0 | -352.8 | 741.8 | 352.8 | 8.00 | 8.00 | |
| 7,800.0 | 85.51 | 180.00 | 7,382.8 | -451.6 | 741.8 | 451.6 | 8.00 | 8.00 | |
| 7,856.1 | 90.00 | 180.00 | 7,385.0 | -507.7 | 741.8 | 507.7 | 8.00 | 8.00 | LP @ 7385' TVD; 90° |
| 7,900.0 | 90.00 | 180.00 | 7,385.0 | -551.6 | 741.8 | 551.6 | 0.00 | 0.00 | |
| 8,000.0 | 90.00 | 180.00 | 7,385.0 | -651.6 | 741.8 | 651.6 | 0.00 | 0.00 | |
| 8,100.0 | 90.00 | 180.00 | 7,385.0 | -751.6 | 741.7 | 751.6 | 0.00 | 0.00 | |
| 8,200.0 | 90.00 | 180.00 | 7,385.0 | -851.6 | 741.7 | 851.6 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 180.00 | 7,385.0 | -951.6 | 741.7 | 951.6 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 180.00 | 7,385.0 | -1,051.6 | 741.7 | 1,051.6 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 180.00 | 7,385.0 | -1,151.6 | 741.7 | 1,151.6 | 0.00 | 0.00 | |
| 8,600.0 | 90.00 | 180.00 | 7,385.0 | -1,251.6 | 741.7 | 1,251.6 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 180.00 | 7,385.0 | -1,351.6 | 741.7 | 1,351.6 | 0.00 | 0.00 | |
| 8,800.0 | 90.00 | 180.00 | 7,385.0 | -1,451.6 | 741.7 | 1,451.6 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 180.00 | 7,385.0 | -1,551.6 | 741.7 | 1,551.6 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 180.00 | 7,385.0 | -1,651.6 | 741.7 | 1,651.6 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 180.00 | 7,385.0 | -1,751.6 | 741.7 | 1,751.6 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 180.00 | 7,385.0 | -1,851.6 | 741.7 | 1,851.6 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site: | S34-T2N-R68W (Billings) | North Reference: | True |
| Well: | Billings 1D-34H | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|--------------------------------------|
| 9,300.0 | 90.00 | 180.00 | 7,385.0 | -1,951.6 | 741.7 | 1,951.6 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 180.00 | 7,385.0 | -2,051.6 | 741.6 | 2,051.6 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 180.00 | 7,385.0 | -2,151.6 | 741.6 | 2,151.6 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 180.00 | 7,385.0 | -2,251.6 | 741.6 | 2,251.6 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 180.00 | 7,385.0 | -2,351.6 | 741.6 | 2,351.6 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 180.00 | 7,385.0 | -2,451.6 | 741.6 | 2,451.6 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 180.00 | 7,385.0 | -2,551.6 | 741.6 | 2,551.6 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 180.00 | 7,385.0 | -2,651.6 | 741.6 | 2,651.6 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 180.00 | 7,385.0 | -2,751.6 | 741.6 | 2,751.6 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 180.00 | 7,385.0 | -2,851.6 | 741.6 | 2,851.6 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 180.00 | 7,385.0 | -2,951.6 | 741.6 | 2,951.6 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 180.00 | 7,385.0 | -3,051.6 | 741.6 | 3,051.6 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 180.00 | 7,385.0 | -3,151.6 | 741.6 | 3,151.6 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 180.00 | 7,385.0 | -3,251.6 | 741.5 | 3,251.6 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 180.00 | 7,385.0 | -3,351.6 | 741.5 | 3,351.6 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 180.00 | 7,385.0 | -3,451.6 | 741.5 | 3,451.6 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 180.00 | 7,385.0 | -3,551.6 | 741.5 | 3,551.6 | 0.00 | 0.00 | |
| 11,000.0 | 90.00 | 180.00 | 7,385.0 | -3,651.6 | 741.5 | 3,651.6 | 0.00 | 0.00 | |
| 11,100.0 | 90.00 | 180.00 | 7,385.0 | -3,751.6 | 741.5 | 3,751.6 | 0.00 | 0.00 | |
| 11,200.0 | 90.00 | 180.00 | 7,385.0 | -3,851.6 | 741.5 | 3,851.6 | 0.00 | 0.00 | |
| 11,300.0 | 90.00 | 180.00 | 7,385.0 | -3,951.6 | 741.5 | 3,951.6 | 0.00 | 0.00 | |
| 11,400.0 | 90.00 | 180.00 | 7,385.0 | -4,051.6 | 741.5 | 4,051.6 | 0.00 | 0.00 | |
| 11,500.0 | 90.00 | 180.00 | 7,385.0 | -4,151.6 | 741.5 | 4,151.6 | 0.00 | 0.00 | |
| 11,600.0 | 90.00 | 180.00 | 7,385.0 | -4,251.6 | 741.5 | 4,251.6 | 0.00 | 0.00 | |
| 11,700.0 | 90.00 | 180.00 | 7,385.0 | -4,351.6 | 741.5 | 4,351.6 | 0.00 | 0.00 | |
| 11,800.0 | 90.00 | 180.00 | 7,385.0 | -4,451.6 | 741.5 | 4,451.6 | 0.00 | 0.00 | |
| 11,900.0 | 90.00 | 180.00 | 7,385.0 | -4,551.6 | 741.4 | 4,551.6 | 0.00 | 0.00 | |
| 11,967.5 | 90.00 | 180.00 | 7,385.0 | -4,619.0 | 741.4 | 4,619.0 | 0.00 | 0.00 | TD at 11967.5 - Billings 1D-34H PBHL |

Targets

| Target Name | Dip Angle (°) | Dip Dir. (°) | TVD (ft) | +N/-S (ft) | +E/-W (ft) | Northing (ft) | Easting (ft) | Latitude | Longitude |
|---------------------------|---------------|--------------|----------|------------|------------|---------------|--------------|-----------|-------------|
| Billings 1D-34H PBHL | 0.00 | 0.00 | 7,385.0 | -4,619.0 | 741.4 | 1,275,669.91 | 3,144,686.76 | 40.088940 | -104.982890 |
| - hit/miss target | | | | | | | | | |
| - Shape | | | | | | | | | |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site: | S34-T2N-R68W (Billings) | North Reference: | True |
| Well: | Billings 1D-34H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #1 | | |

| Formations | | | | | | |
|---------------------|---------------------|----------------|-----------|---------|-------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) | |
| 358.0 | 358.0 | Fox Hills | | | | |
| 4,493.0 | 4,444.0 | Sussex | | | | |
| 4,767.2 | 4,714.0 | Sussex Marker | | | | |
| 5,056.6 | 4,999.0 | Shannon | | | | |
| 6,652.3 | 6,590.0 | Teepee Buttes | | | | |
| 7,483.0 | 7,290.0 | Sharon Springs | | | | |
| 7,686.5 | 7,365.0 | Niobrara | | | | |

| Plan Annotations | | | | | |
|---------------------|---------------------|-------------------|------------|---------------------|--|
| Measured Depth (ft) | Vertical Depth (ft) | Local Coordinates | | | |
| | | +N/-S (ft) | +E/-W (ft) | Comment | |
| 600.0 | 600.0 | 0.0 | 0.0 | KOP @ 600' | |
| 1,600.0 | 1,594.9 | 23.6 | 83.8 | EOB; Inc=10° | |
| 5,035.0 | 4,977.7 | 185.0 | 658.0 | Start Drop -1.00 | |
| 6,035.0 | 5,972.7 | 208.5 | 741.8 | EOD; Inc=0° | |
| 6,731.1 | 6,668.8 | 208.5 | 741.8 | Start Build 8.00 | |
| 7,856.1 | 7,385.0 | -507.7 | 741.8 | LP @ 7385' TVD; 90° | |
| 11,967.5 | 7,385.0 | -4,619.0 | 741.4 | TD at 11967.5 | |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S34-T2N-R68W (Billings)

Billings 1D-34H

Hz

Plan #1

Anticollision Report

30 January, 2013

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 500.0ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | | |
|----------------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Tool Program | | Date | 1/30/2013 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 11,967.1 | Plan #1 (Hz) | MWD | Geolink MWD | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 |

Summary

| Site Name Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance | | Separation Factor | Warning |
|--|--|-------------------------------------|----------------------------|-----------------------------|----------------------|--------------|
| | | | Between Centres (ft) | Between Ellipses (ft) | | |
| S34-T2N-R68W (Billings) | | | | | | |
| ALEX DONES UNIT 1 (EXISTING) - Existing - NO SURV | | | | | | Out of range |
| ALEX DONES UNIT 2 (EXISTING) - Existing - NO SURV | | | | | | Out of range |
| BILLINGS 1 (EXISTING) - Existing - GYRO | 8,067.8 | 7,374.1 | 299.0 | 273.4 | 11.690 | CC, ES |
| BILLINGS 1 (EXISTING) - Existing - GYRO | 8,100.0 | 7,373.8 | 300.7 | 274.7 | 11.568 | SF |
| Billings 1A-34H - Hz - Plan #1 | 200.0 | 200.0 | 30.8 | 30.1 | 47.140 | CC, ES |
| Billings 1A-34H - Hz - Plan #1 | 600.0 | 597.3 | 44.4 | 42.3 | 21.251 | SF |
| Billings 1B-34H - Hz - Plan #1 | 400.0 | 400.0 | 19.6 | 18.2 | 14.495 | CC |
| Billings 1B-34H - Hz - Plan #1 | 500.0 | 499.9 | 19.8 | 18.1 | 11.625 | ES |
| Billings 1B-34H - Hz - Plan #1 | 700.0 | 699.5 | 23.1 | 20.7 | 9.599 | SF |
| Billings 1C-34H - Hz - Plan #1 | 600.0 | 600.0 | 11.2 | 9.1 | 5.461 | CC |
| Billings 1C-34H - Hz - Plan #1 | 800.0 | 800.3 | 11.6 | 8.8 | 4.209 | ES |
| Billings 1C-34H - Hz - Plan #1 | 11,967.8 | 12,199.4 | 479.3 | 337.9 | 3.390 | SF |
| Billings 1E-34H - Hz - Plan #1 | 400.0 | 400.0 | 11.2 | 9.8 | 8.283 | CC, ES |
| Billings 1E-34H - Hz - Plan #1 | 500.0 | 499.6 | 12.9 | 11.2 | 7.585 | SF |
| Billings 1F-34H - Hz - Plan #1 | 200.0 | 200.0 | 19.6 | 18.9 | 29.998 | CC, ES |
| Billings 1F-34H - Hz - Plan #1 | 400.0 | 398.3 | 26.5 | 25.1 | 19.326 | SF |
| BILLINGS 2-34 (EXISTING) - Existing - NO SURVEYS | 10,791.6 | 7,364.0 | 156.5 | 80.3 | 2.054 | CC, ES |
| BILLINGS 2-34 (EXISTING) - Existing - NO SURVEYS | 10,800.0 | 7,364.0 | 156.7 | 80.4 | 2.053 | SF |
| BILLINGS 31-34 (EXISTING) - Existing - SURVEYS | | | | | | Out of range |
| BILLINGS 32-34 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| BILLINGS 41-34 (EXISTING) - Existing - SURVEYS | 7,647.4 | 7,426.7 | 299.8 | 269.7 | 9.963 | CC, ES, SF |
| BILLINGS 42-34 (EXISTING) - Existing - NO SURVEYS | 9,222.6 | 7,359.0 | 247.8 | 198.2 | 4.990 | CC, ES, SF |
| BILLINGS 8-4-34 (was Billings 7-4-34) - DD - Plan #1 | | | | | | Out of range |
| GARVER 34-3M (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| GARVER U 34-5 JI (EXISTING) - Existing - NO SURVEY | | | | | | Out of range |
| MORGAN UNIT A 1 (EXISTING) - Existing - NO SURVEY | | | | | | Out of range |
| MORGAN UNIT A 3 (EXISTING) - Existing - NO SURVEY | | | | | | Out of range |
| PURITAN 1 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| PURITAN 2 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| PURITAN 3 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| PURITAN 33-34 (EXISTING) - Existing - GYRO | | | | | | Out of range |
| PURITAN 34-34 (EXISTING) - Existing - SURVEYS | | | | | | Out of range |
| PURITAN 4 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| PURITAN 44-34 (EXISTING) - Existing - SURVEYS | 11,914.0 | 7,392.5 | 319.0 | 222.1 | 3.293 | CC, ES, SF |
| PURITAN 4-4-34 (EXISTING) - Existing - SURVEYS | | | | | | Out of range |
| PURITAN 4-6-34 (EXISTING) - Existing - SURVEYS | | | | | | Out of range |
| PURITAN 6-4-34 (EXISTING) - Existing - SURVEYS | | | | | | Out of range |
| PURITAN 6-8-34 - DD - Plan #1 | | | | | | Out of range |
| RODGERS 1 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| RODGERS UNIT 2 (EXISTING) - Existing - NO SURVEY | | | | | | Out of range |
| WOOLLEY 1 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| WOOLLEY 2 (EXISTING) - Existing - NO SURVEYS | | | | | | Out of range |
| WOOLLEY 34-14JI (EXISTING) - Existing - NO SURVEY | | | | | | Out of range |
| WOOLLEY U 34-13JI (EXISTING) - Existing - NO SURV | | | | | | Out of range |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - BILLINGS 1 (EXISTING) - Exising - GYRO | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|---------------------------|-------------------|----------------------------------|
| Survey Program: 100-Gyro | | | | | | | | | | | | | 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 |
| 7,700.0 | 7,368.0 | 7,360.1 | 7,359.2 | 19.8 | 6.5 | 75.87 | -719.5 | 442.7 | 473.2 | 452.0 | 21.25 | 22.269 | |
| 7,800.0 | 7,382.8 | 7,374.3 | 7,373.4 | 20.6 | 6.5 | 86.67 | -719.3 | 442.7 | 401.4 | 379.1 | 22.33 | 17.972 | |
| 7,900.0 | 7,385.0 | 7,375.6 | 7,374.7 | 21.4 | 6.5 | 90.52 | -719.3 | 442.7 | 342.9 | 319.4 | 23.49 | 14.599 | |
| 8,000.0 | 7,385.0 | 7,374.7 | 7,373.8 | 22.4 | 6.5 | 90.34 | -719.3 | 442.7 | 306.6 | 281.9 | 24.70 | 12.413 | |
| 8,067.8 | 7,385.0 | 7,374.1 | 7,373.2 | 23.1 | 6.5 | 90.22 | -719.3 | 442.7 | 299.0 | 273.4 | 25.58 | 11.690 CC, ES | |
| 8,100.0 | 7,385.0 | 7,373.8 | 7,372.9 | 23.5 | 6.5 | 90.16 | -719.3 | 442.7 | 300.7 | 274.7 | 26.00 | 11.568 SF | |
| 8,200.0 | 7,385.0 | 7,372.9 | 7,372.0 | 24.6 | 6.5 | 89.99 | -719.4 | 442.7 | 326.9 | 299.6 | 27.36 | 11.949 | |
| 8,300.0 | 7,385.0 | 7,372.0 | 7,371.0 | 25.8 | 6.5 | 89.82 | -719.4 | 442.7 | 378.6 | 349.8 | 28.78 | 13.155 | |
| 8,400.0 | 7,385.0 | 7,371.1 | 7,370.1 | 27.1 | 6.5 | 89.65 | -719.4 | 442.7 | 446.9 | 416.7 | 30.24 | 14.780 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1A-34H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 0-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 | -89.95 | 0.0 | -30.8 | 30.8 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -89.95 | 0.0 | -30.8 | 30.8 | 30.5 | 0.30 | 101.325 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.95 | 0.0 | -30.8 | 30.8 | 30.1 | 0.65 | 47.140 CC, ES | | |
| 300.0 | 300.0 | 299.5 | 299.5 | 0.5 | 0.5 | -89.58 | 0.2 | -31.6 | 31.6 | 30.6 | 1.00 | 31.557 | | |
| 400.0 | 400.0 | 398.9 | 398.8 | 0.7 | 0.7 | -88.56 | 0.9 | -34.1 | 34.2 | 32.8 | 1.36 | 25.203 | | |
| 500.0 | 500.0 | 498.2 | 498.0 | 0.8 | 0.9 | -87.16 | 1.9 | -38.3 | 38.4 | 36.7 | 1.72 | 22.377 | | |
| 600.0 | 600.0 | 597.3 | 597.0 | 1.0 | 1.1 | -85.65 | 3.4 | -44.1 | 44.4 | 42.3 | 2.09 | 21.251 SF | | |
| 700.0 | 700.0 | 696.1 | 695.5 | 1.2 | 1.3 | -158.84 | 5.2 | -51.6 | 52.9 | 50.5 | 2.39 | 22.097 | | |
| 800.0 | 800.0 | 794.4 | 793.3 | 1.4 | 1.5 | -158.39 | 7.5 | -60.7 | 64.7 | 62.0 | 2.74 | 23.624 | | |
| 900.0 | 899.9 | 892.0 | 890.3 | 1.6 | 1.7 | -158.35 | 10.1 | -71.3 | 79.8 | 76.7 | 3.08 | 25.881 | | |
| 1,000.0 | 999.7 | 988.8 | 986.3 | 1.7 | 2.0 | -158.53 | 13.1 | -83.4 | 98.2 | 94.7 | 3.43 | 28.641 | | |
| 1,100.0 | 1,099.4 | 1,084.7 | 1,081.2 | 2.0 | 2.3 | -158.80 | 16.5 | -96.9 | 119.8 | 116.0 | 3.77 | 31.758 | | |
| 1,200.0 | 1,198.9 | 1,179.4 | 1,174.6 | 2.2 | 2.6 | -159.11 | 20.2 | -111.8 | 144.5 | 140.4 | 4.11 | 35.135 | | |
| 1,300.0 | 1,298.3 | 1,275.0 | 1,268.8 | 2.4 | 2.9 | -159.44 | 24.2 | -127.9 | 172.0 | 167.5 | 4.46 | 38.568 | | |
| 1,400.0 | 1,397.4 | 1,370.7 | 1,363.0 | 2.7 | 3.2 | -159.83 | 28.3 | -144.0 | 201.1 | 196.3 | 4.81 | 41.831 | | |
| 1,500.0 | 1,496.3 | 1,465.9 | 1,456.7 | 2.9 | 3.6 | -160.24 | 32.3 | -160.0 | 231.7 | 226.6 | 5.15 | 44.954 | | |
| 1,600.0 | 1,594.9 | 1,560.5 | 1,549.9 | 3.2 | 3.9 | -160.66 | 36.2 | -176.0 | 263.9 | 258.4 | 5.50 | 47.964 | | |
| 1,700.0 | 1,693.4 | 1,654.9 | 1,642.9 | 3.6 | 4.2 | -161.14 | 40.2 | -191.9 | 297.0 | 291.1 | 5.86 | 50.652 | | |
| 1,800.0 | 1,791.9 | 1,749.2 | 1,735.8 | 3.9 | 4.5 | -161.52 | 44.2 | -207.8 | 330.0 | 323.8 | 6.22 | 53.023 | | |
| 1,900.0 | 1,890.4 | 1,843.6 | 1,828.7 | 4.2 | 4.9 | -161.83 | 48.1 | -223.7 | 363.0 | 356.5 | 6.59 | 55.130 | | |
| 2,000.0 | 1,988.9 | 1,938.0 | 1,921.7 | 4.5 | 5.2 | -162.09 | 52.1 | -239.6 | 396.1 | 389.1 | 6.95 | 57.014 | | |
| 2,100.0 | 2,087.3 | 2,032.3 | 2,014.6 | 4.9 | 5.5 | -162.31 | 56.0 | -255.5 | 429.2 | 421.8 | 7.31 | 58.709 | | |
| 2,200.0 | 2,185.8 | 2,126.7 | 2,107.5 | 5.2 | 5.8 | -162.50 | 60.0 | -271.4 | 462.2 | 454.5 | 7.67 | 60.240 | | |
| 2,300.0 | 2,284.3 | 2,221.1 | 2,200.5 | 5.5 | 6.2 | -162.66 | 64.0 | -287.3 | 495.3 | 487.3 | 8.04 | 61.631 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1B-34H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|-----------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -89.95 | 0.0 | -19.6 | 19.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -89.95 | 0.0 | -19.6 | 19.6 | 19.3 | 0.30 | 64.479 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.95 | 0.0 | -19.6 | 19.6 | 18.9 | 0.65 | 29.998 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.95 | 0.0 | -19.6 | 19.6 | 18.6 | 1.00 | 19.546 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | -89.95 | 0.0 | -19.6 | 19.6 | 18.2 | 1.35 | 14.495 CC | | |
| 500.0 | 500.0 | 499.9 | 499.9 | 0.8 | 0.9 | -87.47 | 0.9 | -19.7 | 19.8 | 18.1 | 1.70 | 11.625 ES | | |
| 600.0 | 600.0 | 599.8 | 599.8 | 1.0 | 1.0 | -80.34 | 3.4 | -20.2 | 20.5 | 18.5 | 2.05 | 10.007 | | |
| 700.0 | 700.0 | 699.5 | 699.4 | 1.2 | 1.2 | -145.40 | 7.7 | -21.0 | 23.1 | 20.7 | 2.41 | 9.599 SF | | |
| 800.0 | 800.0 | 799.1 | 798.8 | 1.4 | 1.4 | -137.70 | 13.7 | -22.1 | 28.5 | 25.8 | 2.77 | 10.307 | | |
| 900.0 | 899.9 | 898.3 | 897.7 | 1.6 | 1.6 | -132.49 | 21.3 | -23.6 | 36.6 | 33.5 | 3.13 | 11.688 | | |
| 1,000.0 | 999.7 | 997.3 | 996.2 | 1.7 | 1.8 | -129.32 | 30.6 | -25.3 | 47.2 | 43.7 | 3.51 | 13.460 | | |
| 1,100.0 | 1,099.4 | 1,095.7 | 1,094.0 | 2.0 | 2.1 | -127.48 | 41.5 | -27.3 | 60.3 | 56.4 | 3.90 | 15.449 | | |
| 1,200.0 | 1,198.9 | 1,193.7 | 1,191.1 | 2.2 | 2.3 | -126.45 | 54.0 | -29.7 | 75.6 | 71.3 | 4.31 | 17.547 | | |
| 1,300.0 | 1,298.3 | 1,292.1 | 1,288.6 | 2.4 | 2.6 | -126.19 | 67.4 | -32.2 | 92.7 | 87.9 | 4.73 | 19.577 | | |
| 1,400.0 | 1,397.4 | 1,390.5 | 1,386.0 | 2.7 | 2.9 | -126.71 | 80.9 | -34.7 | 110.8 | 105.6 | 5.18 | 21.394 | | |
| 1,500.0 | 1,496.3 | 1,488.6 | 1,483.2 | 2.9 | 3.1 | -127.65 | 94.3 | -37.2 | 129.9 | 124.3 | 5.64 | 23.038 | | |
| 1,600.0 | 1,594.9 | 1,586.5 | 1,580.1 | 3.2 | 3.4 | -128.84 | 107.7 | -39.7 | 150.2 | 144.1 | 6.12 | 24.545 | | |
| 1,700.0 | 1,693.4 | 1,684.2 | 1,676.9 | 3.6 | 3.7 | -130.09 | 121.1 | -42.2 | 171.1 | 164.5 | 6.61 | 25.879 | | |
| 1,800.0 | 1,791.9 | 1,781.9 | 1,773.7 | 3.9 | 4.0 | -131.08 | 134.4 | -44.7 | 192.0 | 184.9 | 7.11 | 27.020 | | |
| 1,900.0 | 1,890.4 | 1,879.7 | 1,870.5 | 4.2 | 4.3 | -131.86 | 147.8 | -47.2 | 213.0 | 205.4 | 7.60 | 28.005 | | |
| 2,000.0 | 1,988.9 | 1,979.0 | 1,968.9 | 4.5 | 4.5 | -132.58 | 161.1 | -49.7 | 233.8 | 225.7 | 8.10 | 28.846 | | |
| 2,100.0 | 2,087.3 | 2,079.8 | 2,068.9 | 4.9 | 4.8 | -133.46 | 173.0 | -52.0 | 253.6 | 245.0 | 8.60 | 29.503 | | |
| 2,200.0 | 2,185.8 | 2,180.9 | 2,169.5 | 5.2 | 5.0 | -134.51 | 183.2 | -53.9 | 272.4 | 263.3 | 9.07 | 30.015 | | |
| 2,300.0 | 2,284.3 | 2,282.3 | 2,270.5 | 5.5 | 5.3 | -135.70 | 191.7 | -55.5 | 290.1 | 280.6 | 9.54 | 30.420 | | |
| 2,400.0 | 2,382.8 | 2,383.9 | 2,371.9 | 5.9 | 5.5 | -137.03 | 198.4 | -56.7 | 306.9 | 296.9 | 9.98 | 30.748 | | |
| 2,500.0 | 2,481.3 | 2,485.7 | 2,473.5 | 6.2 | 5.7 | -138.47 | 203.4 | -57.6 | 322.8 | 312.4 | 10.40 | 31.024 | | |
| 2,600.0 | 2,579.7 | 2,587.5 | 2,575.3 | 6.6 | 5.8 | -140.03 | 206.6 | -58.2 | 337.9 | 327.1 | 10.80 | 31.270 | | |
| 2,700.0 | 2,678.2 | 2,689.4 | 2,677.2 | 6.9 | 6.0 | -141.70 | 208.0 | -58.5 | 352.2 | 341.0 | 11.18 | 31.503 | | |
| 2,800.0 | 2,776.7 | 2,788.9 | 2,776.7 | 7.2 | 6.1 | -143.39 | 208.1 | -58.5 | 366.1 | 354.6 | 11.54 | 31.733 | | |
| 2,900.0 | 2,875.2 | 2,887.4 | 2,875.2 | 7.6 | 6.2 | -144.94 | 208.1 | -58.5 | 380.3 | 368.4 | 11.89 | 31.991 | | |
| 3,000.0 | 2,973.7 | 2,985.9 | 2,973.7 | 7.9 | 6.4 | -146.38 | 208.1 | -58.5 | 394.7 | 382.4 | 12.23 | 32.271 | | |
| 3,100.0 | 3,072.1 | 3,084.3 | 3,072.1 | 8.3 | 6.5 | -147.72 | 208.1 | -58.5 | 409.3 | 396.7 | 12.57 | 32.566 | | |
| 3,200.0 | 3,170.6 | 3,182.8 | 3,170.6 | 8.6 | 6.7 | -148.97 | 208.1 | -58.5 | 424.1 | 411.2 | 12.90 | 32.872 | | |
| 3,300.0 | 3,269.1 | 3,281.3 | 3,269.1 | 9.0 | 6.8 | -150.13 | 208.1 | -58.5 | 439.2 | 425.9 | 13.23 | 33.183 | | |
| 3,400.0 | 3,367.6 | 3,379.8 | 3,367.6 | 9.3 | 6.9 | -151.22 | 208.1 | -58.5 | 454.4 | 440.8 | 13.56 | 33.498 | | |
| 3,500.0 | 3,466.1 | 3,478.3 | 3,466.1 | 9.7 | 7.1 | -152.23 | 208.1 | -58.5 | 469.7 | 455.8 | 13.89 | 33.813 | | |
| 3,600.0 | 3,564.5 | 3,576.7 | 3,564.5 | 10.0 | 7.2 | -153.19 | 208.1 | -58.5 | 485.2 | 471.0 | 14.22 | 34.127 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1C-34H - Hz - Plan #1 | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 0-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 | -89.96 | 0.0 | -11.2 | 11.2 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | -89.96 | 0.0 | -11.2 | 11.2 | 10.9 | 0.30 | 36.845 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.96 | 0.0 | -11.2 | 11.2 | 10.5 | 0.65 | 17.142 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | -89.96 | 0.0 | -11.2 | 11.2 | 10.2 | 1.00 | 11.169 | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | -89.96 | 0.0 | -11.2 | 11.2 | 9.8 | 1.35 | 8.283 | | | |
| 500.0 | 500.0 | 500.0 | 500.0 | 0.8 | 0.8 | -89.96 | 0.0 | -11.2 | 11.2 | 9.5 | 1.70 | 6.582 | | | |
| 600.0 | 600.0 | 600.0 | 600.0 | 1.0 | 1.0 | -89.96 | 0.0 | -11.2 | 11.2 | 9.1 | 2.05 | 5.461 CC | | | |
| 700.0 | 700.0 | 700.2 | 700.2 | 1.2 | 1.2 | -163.20 | 0.5 | -10.4 | 11.3 | 8.9 | 2.40 | 4.703 | | | |
| 800.0 | 800.0 | 800.3 | 800.3 | 1.4 | 1.4 | -160.14 | 1.8 | -8.2 | 11.6 | 8.8 | 2.75 | 4.209 ES | | | |
| 900.0 | 899.9 | 900.5 | 900.4 | 1.6 | 1.6 | -155.38 | 4.0 | -4.4 | 12.1 | 9.0 | 3.10 | 3.907 | | | |
| 1,000.0 | 999.7 | 1,000.6 | 1,000.3 | 1.7 | 1.8 | -149.46 | 7.1 | 0.9 | 13.0 | 9.5 | 3.46 | 3.756 | | | |
| 1,100.0 | 1,099.4 | 1,100.8 | 1,100.1 | 2.0 | 2.0 | -143.02 | 11.1 | 7.7 | 14.3 | 10.5 | 3.85 | 3.728 | | | |
| 1,200.0 | 1,198.9 | 1,200.9 | 1,199.8 | 2.2 | 2.2 | -136.69 | 16.0 | 15.9 | 16.2 | 11.9 | 4.26 | 3.794 | | | |
| 1,300.0 | 1,298.3 | 1,301.0 | 1,299.3 | 2.4 | 2.4 | -130.88 | 21.7 | 25.7 | 18.5 | 13.8 | 4.71 | 3.928 | | | |
| 1,400.0 | 1,397.4 | 1,401.1 | 1,398.5 | 2.7 | 2.7 | -125.82 | 28.4 | 37.0 | 21.4 | 16.2 | 5.21 | 4.106 | | | |
| 1,500.0 | 1,496.3 | 1,501.1 | 1,497.4 | 2.9 | 2.9 | -121.55 | 35.9 | 49.7 | 24.8 | 19.0 | 5.75 | 4.306 | | | |
| 1,600.0 | 1,594.9 | 1,601.2 | 1,596.1 | 3.2 | 3.2 | -117.99 | 44.3 | 64.0 | 28.7 | 22.3 | 6.36 | 4.516 | | | |
| 1,700.0 | 1,693.4 | 1,701.1 | 1,694.5 | 3.6 | 3.6 | -115.23 | 53.1 | 78.9 | 32.9 | 25.9 | 6.98 | 4.717 | | | |
| 1,800.0 | 1,791.9 | 1,801.0 | 1,792.8 | 3.9 | 3.9 | -113.11 | 61.9 | 93.9 | 37.2 | 29.6 | 7.62 | 4.882 | | | |
| 1,900.0 | 1,890.4 | 1,900.9 | 1,891.2 | 4.2 | 4.2 | -111.43 | 70.7 | 108.8 | 41.5 | 33.3 | 8.27 | 5.021 | | | |
| 2,000.0 | 1,988.9 | 2,000.8 | 1,989.6 | 4.5 | 4.5 | -110.07 | 79.5 | 123.8 | 45.9 | 36.9 | 8.93 | 5.138 | | | |
| 2,100.0 | 2,087.3 | 2,100.7 | 2,088.0 | 4.9 | 4.9 | -108.94 | 88.3 | 138.7 | 50.2 | 40.7 | 9.59 | 5.237 | | | |
| 2,200.0 | 2,185.8 | 2,200.6 | 2,186.4 | 5.2 | 5.2 | -107.99 | 97.1 | 153.7 | 54.6 | 44.4 | 10.26 | 5.323 | | | |
| 2,300.0 | 2,284.3 | 2,300.5 | 2,284.8 | 5.5 | 5.5 | -107.18 | 105.9 | 168.6 | 59.0 | 48.1 | 10.94 | 5.397 | | | |
| 2,400.0 | 2,382.8 | 2,400.4 | 2,383.1 | 5.9 | 5.9 | -106.49 | 114.7 | 183.6 | 63.4 | 51.8 | 11.62 | 5.462 | | | |
| 2,500.0 | 2,481.3 | 2,500.3 | 2,481.5 | 6.2 | 6.2 | -105.89 | 123.5 | 198.5 | 67.9 | 55.6 | 12.30 | 5.519 | | | |
| 2,600.0 | 2,579.7 | 2,600.2 | 2,579.9 | 6.6 | 6.5 | -105.36 | 132.3 | 213.5 | 72.3 | 59.3 | 12.98 | 5.570 | | | |
| 2,700.0 | 2,678.2 | 2,700.1 | 2,678.3 | 6.9 | 6.9 | -104.89 | 141.1 | 228.4 | 76.7 | 63.1 | 13.66 | 5.615 | | | |
| 2,800.0 | 2,776.7 | 2,800.0 | 2,776.7 | 7.2 | 7.2 | -104.47 | 149.9 | 243.4 | 81.2 | 66.8 | 14.35 | 5.656 | | | |
| 2,900.0 | 2,875.2 | 2,899.9 | 2,875.1 | 7.6 | 7.6 | -104.10 | 158.7 | 258.3 | 85.6 | 70.6 | 15.04 | 5.693 | | | |
| 3,000.0 | 2,973.7 | 2,999.8 | 2,973.5 | 7.9 | 7.9 | -103.87 | 167.5 | 273.1 | 90.0 | 74.3 | 15.72 | 5.728 | | | |
| 3,100.0 | 3,072.1 | 3,099.7 | 3,072.1 | 8.3 | 8.2 | -104.56 | 175.4 | 286.6 | 94.5 | 78.1 | 16.35 | 5.776 | | | |
| 3,200.0 | 3,170.6 | 3,199.5 | 3,171.0 | 8.6 | 8.5 | -106.20 | 182.5 | 298.7 | 98.9 | 82.0 | 16.94 | 5.840 | | | |
| 3,300.0 | 3,269.1 | 3,299.2 | 3,269.9 | 9.0 | 8.8 | -108.65 | 188.8 | 309.2 | 103.6 | 86.1 | 17.46 | 5.931 | | | |
| 3,400.0 | 3,367.6 | 3,398.8 | 3,368.9 | 9.3 | 9.0 | -111.80 | 194.1 | 318.3 | 108.6 | 90.7 | 17.91 | 6.065 | | | |
| 3,500.0 | 3,466.1 | 3,498.0 | 3,467.8 | 9.7 | 9.2 | -115.50 | 198.5 | 325.9 | 114.3 | 96.0 | 18.26 | 6.259 | | | |
| 3,600.0 | 3,564.5 | 3,597.0 | 3,566.5 | 10.0 | 9.4 | -119.62 | 202.1 | 331.9 | 120.8 | 102.3 | 18.50 | 6.531 | | | |
| 3,700.0 | 3,663.0 | 3,695.6 | 3,665.0 | 10.4 | 9.6 | -124.01 | 204.8 | 336.5 | 128.4 | 109.8 | 18.62 | 6.897 | | | |
| 3,800.0 | 3,761.5 | 3,793.8 | 3,763.1 | 10.7 | 9.8 | -128.52 | 206.6 | 339.6 | 137.5 | 118.8 | 18.65 | 7.370 | | | |
| 3,900.0 | 3,860.0 | 3,891.5 | 3,860.8 | 11.1 | 9.9 | -133.02 | 207.6 | 341.2 | 148.0 | 129.4 | 18.59 | 7.963 | | | |
| 4,000.0 | 3,958.5 | 3,989.2 | 3,958.5 | 11.4 | 10.0 | -137.38 | 207.8 | 341.5 | 160.3 | 141.8 | 18.48 | 8.672 | | | |
| 4,100.0 | 4,057.0 | 4,087.7 | 4,057.0 | 11.8 | 10.1 | -141.25 | 207.8 | 341.5 | 173.5 | 155.1 | 18.39 | 9.435 | | | |
| 4,200.0 | 4,155.4 | 4,186.2 | 4,155.4 | 12.1 | 10.2 | -144.55 | 207.8 | 341.5 | 187.5 | 169.1 | 18.35 | 10.217 | | | |
| 4,300.0 | 4,253.9 | 4,284.6 | 4,253.9 | 12.5 | 10.4 | -147.40 | 207.8 | 341.5 | 201.9 | 183.6 | 18.35 | 11.006 | | | |
| 4,400.0 | 4,352.4 | 4,383.1 | 4,352.4 | 12.8 | 10.5 | -149.86 | 207.8 | 341.5 | 216.8 | 198.4 | 18.39 | 11.791 | | | |
| 4,500.0 | 4,450.9 | 4,481.6 | 4,450.9 | 13.2 | 10.6 | -152.01 | 207.8 | 341.5 | 232.1 | 213.6 | 18.47 | 12.565 | | | |
| 4,600.0 | 4,549.4 | 4,580.1 | 4,549.4 | 13.5 | 10.7 | -153.89 | 207.8 | 341.5 | 247.6 | 229.0 | 18.58 | 13.324 | | | |
| 4,700.0 | 4,647.8 | 4,678.6 | 4,647.8 | 13.9 | 10.9 | -155.55 | 207.8 | 341.5 | 263.3 | 244.6 | 18.72 | 14.066 | | | |
| 4,800.0 | 4,746.3 | 4,777.0 | 4,746.3 | 14.2 | 11.0 | -157.02 | 207.8 | 341.5 | 279.3 | 260.4 | 18.89 | 14.787 | | | |
| 4,900.0 | 4,844.8 | 4,875.5 | 4,844.8 | 14.6 | 11.1 | -158.33 | 207.8 | 341.5 | 295.4 | 276.3 | 19.07 | 15.487 | | | |
| 5,000.0 | 4,943.3 | 4,974.0 | 4,943.3 | 14.9 | 11.3 | -159.51 | 207.8 | 341.5 | 311.6 | 292.3 | 19.27 | 16.166 | | | |
| 5,100.0 | 5,041.8 | 5,072.5 | 5,041.8 | 15.3 | 11.4 | -160.58 | 207.8 | 341.5 | 327.6 | 308.1 | 19.50 | 16.801 | | | |

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 Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1C-34H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|-------------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total | | 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 | Separation Factor | | |
| 5,200.0 | 5,140.6 | 5,171.4 | 5,140.6 | 15.6 | 11.5 | -161.49 | 207.8 | 341.5 | 342.2 | 322.4 | 19.74 | 17.330 | | |
| 5,300.0 | 5,239.7 | 5,270.4 | 5,239.7 | 15.9 | 11.7 | -162.23 | 207.8 | 341.5 | 355.2 | 335.2 | 20.00 | 17.754 | | |
| 5,400.0 | 5,339.0 | 5,369.7 | 5,339.0 | 16.1 | 11.8 | -162.83 | 207.8 | 341.5 | 366.5 | 346.3 | 20.28 | 18.076 | | |
| 5,500.0 | 5,438.5 | 5,469.2 | 5,438.5 | 16.4 | 11.9 | -163.31 | 207.8 | 341.5 | 376.3 | 355.7 | 20.56 | 18.302 | | |
| 5,600.0 | 5,538.1 | 5,568.8 | 5,538.1 | 16.6 | 12.1 | -163.70 | 207.8 | 341.5 | 384.4 | 363.6 | 20.85 | 18.437 | | |
| 5,700.0 | 5,637.9 | 5,668.6 | 5,637.9 | 16.8 | 12.2 | -163.99 | 207.8 | 341.5 | 390.9 | 369.7 | 21.15 | 18.484 | | |
| 5,800.0 | 5,737.7 | 5,768.5 | 5,737.7 | 16.9 | 12.4 | -164.20 | 207.8 | 341.5 | 395.6 | 374.2 | 21.45 | 18.449 | | |
| 5,900.0 | 5,837.7 | 5,868.4 | 5,837.7 | 17.0 | 12.5 | -164.34 | 207.8 | 341.5 | 398.7 | 377.0 | 21.75 | 18.334 | | |
| 6,000.0 | 5,937.7 | 5,968.4 | 5,937.7 | 17.2 | 12.7 | -164.40 | 207.8 | 341.5 | 400.2 | 378.1 | 22.06 | 18.144 | | |
| 6,100.0 | 6,037.7 | 6,068.4 | 6,037.7 | 17.3 | 12.8 | -90.10 | 207.8 | 341.5 | 400.3 | 377.9 | 22.38 | 17.887 | | |
| 6,200.0 | 6,137.7 | 6,168.4 | 6,137.7 | 17.4 | 12.9 | -90.10 | 207.8 | 341.5 | 400.3 | 377.6 | 22.71 | 17.627 | | |
| 6,300.0 | 6,237.7 | 6,268.4 | 6,237.7 | 17.5 | 13.1 | -90.10 | 207.8 | 341.5 | 400.3 | 377.2 | 23.04 | 17.373 | | |
| 6,400.0 | 6,337.7 | 6,368.4 | 6,337.7 | 17.6 | 13.2 | -90.10 | 207.8 | 341.5 | 400.3 | 376.9 | 23.37 | 17.126 | | |
| 6,500.0 | 6,437.7 | 6,468.4 | 6,437.7 | 17.7 | 13.4 | -90.10 | 207.8 | 341.5 | 400.3 | 376.6 | 23.70 | 16.886 | | |
| 6,600.0 | 6,537.7 | 6,568.4 | 6,537.7 | 17.8 | 13.5 | -90.10 | 207.8 | 341.5 | 400.3 | 376.2 | 24.04 | 16.652 | | |
| 6,700.0 | 6,637.7 | 6,668.4 | 6,637.7 | 17.9 | 13.7 | -90.10 | 207.8 | 341.5 | 400.3 | 375.9 | 24.37 | 16.425 | | |
| 6,750.5 | 6,688.2 | 6,718.9 | 6,688.2 | 18.0 | 13.7 | 90.07 | 207.8 | 341.5 | 400.3 | 375.7 | 24.54 | 16.309 | | |
| 6,800.0 | 6,737.6 | 6,768.3 | 6,737.6 | 18.0 | 13.8 | 90.36 | 207.8 | 341.5 | 400.3 | 375.6 | 24.73 | 16.189 | | |
| 6,900.0 | 6,836.1 | 6,866.8 | 6,836.1 | 18.1 | 14.0 | 92.65 | 207.8 | 341.5 | 400.7 | 375.5 | 25.19 | 15.909 | | |
| 7,000.0 | 6,931.4 | 6,962.1 | 6,931.4 | 18.1 | 14.1 | 96.51 | 207.8 | 341.5 | 403.3 | 377.6 | 25.72 | 15.682 | | |
| 7,100.0 | 7,021.6 | 7,052.3 | 7,033.7 | 18.1 | 14.2 | 101.29 | 200.6 | 341.5 | 409.4 | 383.3 | 26.13 | 15.669 | | |
| 7,200.0 | 7,104.9 | 7,135.6 | 7,140.2 | 18.2 | 14.3 | 105.90 | 177.1 | 341.5 | 418.4 | 392.2 | 26.22 | 15.958 | | |
| 7,300.0 | 7,179.7 | 7,210.4 | 7,248.6 | 18.3 | 14.3 | 110.21 | 134.4 | 341.5 | 429.7 | 403.7 | 26.01 | 16.521 | | |
| 7,400.0 | 7,244.6 | 7,275.3 | 7,355.4 | 18.5 | 14.4 | 114.12 | 69.8 | 341.5 | 442.1 | 416.5 | 25.62 | 17.256 | | |
| 7,500.0 | 7,298.3 | 7,329.0 | 7,455.5 | 18.8 | 14.6 | 117.50 | -18.8 | 341.5 | 454.5 | 429.2 | 25.33 | 17.946 | | |
| 7,600.0 | 7,339.7 | 7,370.4 | 7,542.0 | 19.2 | 15.0 | 120.24 | -131.9 | 341.5 | 465.6 | 440.1 | 25.49 | 18.267 | | |
| 7,700.0 | 7,368.0 | 7,398.7 | 7,607.2 | 19.8 | 15.8 | 122.19 | -267.3 | 341.5 | 474.0 | 447.6 | 26.47 | 17.908 | | |
| 7,800.0 | 7,382.8 | 7,413.5 | 7,643.4 | 20.6 | 17.1 | 123.24 | -418.7 | 341.5 | 478.7 | 450.2 | 28.48 | 16.809 | | |
| 7,900.0 | 7,385.0 | 7,416.7 | 7,649.0 | 21.4 | 18.4 | 123.41 | -551.5 | 341.5 | 479.5 | 448.6 | 30.89 | 15.523 | | |
| 8,000.0 | 7,385.0 | 7,417.9 | 7,649.0 | 22.4 | 19.6 | 123.41 | -651.5 | 341.5 | 479.5 | 446.6 | 32.87 | 14.589 | | |
| 8,100.0 | 7,385.0 | 7,419.1 | 7,649.0 | 23.5 | 20.8 | 123.41 | -751.5 | 341.5 | 479.5 | 444.5 | 34.98 | 13.707 | | |
| 8,200.0 | 7,385.0 | 7,420.3 | 7,649.0 | 24.6 | 22.1 | 123.41 | -851.5 | 341.5 | 479.5 | 442.3 | 37.20 | 12.888 | | |
| 8,300.0 | 7,385.0 | 7,421.5 | 7,649.0 | 25.8 | 23.4 | 123.41 | -951.5 | 341.5 | 479.5 | 439.9 | 39.52 | 12.132 | | |
| 8,400.0 | 7,385.0 | 7,422.7 | 7,649.0 | 27.1 | 24.8 | 123.41 | -1,051.5 | 341.5 | 479.5 | 437.5 | 41.92 | 11.438 | | |
| 8,500.0 | 7,385.0 | 7,423.9 | 7,649.0 | 28.4 | 26.3 | 123.41 | -1,151.5 | 341.5 | 479.5 | 435.1 | 44.38 | 10.804 | | |
| 8,600.0 | 7,385.0 | 7,425.1 | 7,649.0 | 29.8 | 27.8 | 123.41 | -1,251.5 | 341.5 | 479.5 | 432.6 | 46.89 | 10.224 | | |
| 8,700.0 | 7,385.0 | 7,426.3 | 7,649.0 | 31.2 | 29.3 | 123.41 | -1,351.5 | 341.5 | 479.4 | 430.0 | 49.46 | 9.695 | | |
| 8,800.0 | 7,385.0 | 7,427.5 | 7,649.0 | 32.7 | 30.8 | 123.41 | -1,451.5 | 341.5 | 479.4 | 427.4 | 52.06 | 9.210 | | |
| 8,900.0 | 7,385.0 | 7,428.7 | 7,649.0 | 34.1 | 32.4 | 123.41 | -1,551.5 | 341.5 | 479.4 | 424.8 | 54.69 | 8.766 | | |
| 9,000.0 | 7,385.0 | 7,429.9 | 7,649.0 | 35.6 | 33.9 | 123.41 | -1,651.5 | 341.5 | 479.4 | 422.1 | 57.36 | 8.359 | | |
| 9,100.0 | 7,385.0 | 7,431.1 | 7,649.0 | 37.2 | 35.5 | 123.41 | -1,751.5 | 341.5 | 479.4 | 419.4 | 60.05 | 7.984 | | |
| 9,200.0 | 7,385.0 | 7,432.3 | 7,649.0 | 38.7 | 37.2 | 123.41 | -1,851.5 | 341.5 | 479.4 | 416.7 | 62.76 | 7.639 | | |
| 9,300.0 | 7,385.0 | 7,433.5 | 7,649.0 | 40.2 | 38.8 | 123.41 | -1,951.5 | 341.5 | 479.4 | 413.9 | 65.49 | 7.321 | | |
| 9,400.0 | 7,385.0 | 7,434.7 | 7,649.0 | 41.8 | 40.4 | 123.41 | -2,051.5 | 341.5 | 479.4 | 411.2 | 68.24 | 7.026 | | |
| 9,500.0 | 7,385.0 | 7,435.9 | 7,649.0 | 43.4 | 42.0 | 123.41 | -2,151.5 | 341.4 | 479.4 | 408.4 | 71.00 | 6.752 | | |
| 9,600.0 | 7,385.0 | 7,437.1 | 7,649.0 | 45.0 | 43.7 | 123.41 | -2,251.5 | 341.4 | 479.4 | 405.6 | 73.78 | 6.498 | | |
| 9,700.0 | 7,385.0 | 7,438.3 | 7,649.0 | 46.6 | 45.4 | 123.41 | -2,351.5 | 341.4 | 479.4 | 402.9 | 76.57 | 6.261 | | |
| 9,800.0 | 7,385.0 | 7,439.5 | 7,649.0 | 48.2 | 47.0 | 123.41 | -2,451.5 | 341.4 | 479.4 | 400.0 | 79.37 | 6.041 | | |
| 9,900.0 | 7,385.0 | 7,440.7 | 7,649.0 | 49.9 | 48.7 | 123.41 | -2,551.5 | 341.4 | 479.4 | 397.2 | 82.17 | 5.834 | | |
| 10,000.0 | 7,385.0 | 7,441.9 | 7,649.0 | 51.5 | 50.4 | 123.41 | -2,651.5 | 341.4 | 479.4 | 394.4 | 84.99 | 5.641 | | |
| 10,100.0 | 7,385.0 | 7,443.1 | 7,649.0 | 53.2 | 52.1 | 123.41 | -2,751.5 | 341.4 | 479.4 | 391.6 | 87.82 | 5.459 | | |
| 10,200.0 | 7,385.0 | 7,444.3 | 7,649.0 | 54.8 | 53.7 | 123.41 | -2,851.5 | 341.4 | 479.4 | 388.8 | 90.65 | 5.289 | | |

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 Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1C-34H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 0-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 | 7,385.0 | 10,531.7 | 7,649.0 | 56.5 | 55.4 | 123.41 | -2,951.5 | 341.4 | 479.4 | 385.9 | 93.49 | 5.128 | | |
| 10,400.0 | 7,385.0 | 10,631.7 | 7,649.0 | 58.1 | 57.1 | 123.41 | -3,051.5 | 341.4 | 479.4 | 383.1 | 96.33 | 4.977 | | |
| 10,500.0 | 7,385.0 | 10,731.7 | 7,649.0 | 59.8 | 58.8 | 123.41 | -3,151.5 | 341.4 | 479.4 | 380.2 | 99.18 | 4.834 | | |
| 10,600.0 | 7,385.0 | 10,831.7 | 7,649.0 | 61.5 | 60.5 | 123.42 | -3,251.5 | 341.4 | 479.4 | 377.4 | 102.04 | 4.698 | | |
| 10,700.0 | 7,385.0 | 10,931.7 | 7,649.0 | 63.1 | 62.2 | 123.42 | -3,351.5 | 341.4 | 479.4 | 374.5 | 104.89 | 4.570 | | |
| 10,800.0 | 7,385.0 | 11,031.7 | 7,649.0 | 64.8 | 63.9 | 123.42 | -3,451.5 | 341.4 | 479.4 | 371.6 | 107.76 | 4.449 | | |
| 10,900.0 | 7,385.0 | 11,131.7 | 7,649.0 | 66.5 | 65.6 | 123.42 | -3,551.5 | 341.4 | 479.4 | 368.8 | 110.62 | 4.333 | | |
| 11,000.0 | 7,385.0 | 11,231.7 | 7,649.0 | 68.2 | 67.4 | 123.42 | -3,651.5 | 341.4 | 479.4 | 365.9 | 113.49 | 4.224 | | |
| 11,100.0 | 7,385.0 | 11,331.7 | 7,649.0 | 69.9 | 69.1 | 123.42 | -3,751.5 | 341.4 | 479.4 | 363.0 | 116.37 | 4.119 | | |
| 11,200.0 | 7,385.0 | 11,431.7 | 7,649.0 | 71.6 | 70.8 | 123.42 | -3,851.5 | 341.4 | 479.4 | 360.1 | 119.24 | 4.020 | | |
| 11,300.0 | 7,385.0 | 11,531.7 | 7,649.0 | 73.3 | 72.5 | 123.42 | -3,951.5 | 341.4 | 479.4 | 357.2 | 122.12 | 3.925 | | |
| 11,400.0 | 7,385.0 | 11,631.7 | 7,649.0 | 75.0 | 74.2 | 123.42 | -4,051.5 | 341.4 | 479.4 | 354.4 | 125.01 | 3.835 | | |
| 11,500.0 | 7,385.0 | 11,731.7 | 7,649.0 | 76.7 | 75.9 | 123.42 | -4,151.5 | 341.4 | 479.4 | 351.5 | 127.89 | 3.748 | | |
| 11,600.0 | 7,385.0 | 11,831.7 | 7,649.0 | 78.4 | 77.7 | 123.42 | -4,251.5 | 341.4 | 479.4 | 348.6 | 130.78 | 3.665 | | |
| 11,700.0 | 7,385.0 | 11,931.7 | 7,649.0 | 80.1 | 79.4 | 123.42 | -4,351.5 | 341.4 | 479.4 | 345.7 | 133.67 | 3.586 | | |
| 11,800.0 | 7,385.0 | 12,031.7 | 7,649.0 | 81.8 | 81.1 | 123.42 | -4,451.5 | 341.3 | 479.4 | 342.8 | 136.56 | 3.510 | | |
| 11,900.0 | 7,385.0 | 12,131.7 | 7,649.0 | 83.5 | 82.8 | 123.42 | -4,551.5 | 341.3 | 479.3 | 339.9 | 139.45 | 3.437 | | |
| 11,967.8 | 7,385.0 | 12,199.4 | 7,649.0 | 84.7 | 84.0 | 123.42 | -4,619.3 | 341.3 | 479.3 | 337.9 | 141.41 | 3.390 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1E-34H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|--------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.04 | 0.0 | 11.2 | 11.2 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 90.04 | 0.0 | 11.2 | 11.2 | 10.9 | 0.30 | 36.845 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.04 | 0.0 | 11.2 | 11.2 | 10.5 | 0.65 | 17.142 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.04 | 0.0 | 11.2 | 11.2 | 10.2 | 1.00 | 11.169 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | 90.04 | 0.0 | 11.2 | 11.2 | 9.8 | 1.35 | 8.283 CC, ES | | |
| 500.0 | 500.0 | 499.6 | 499.6 | 0.8 | 0.9 | 88.64 | 0.3 | 12.9 | 12.9 | 11.2 | 1.70 | 7.585 SF | | |
| 600.0 | 600.0 | 598.9 | 598.8 | 1.0 | 1.0 | 86.02 | 1.2 | 18.0 | 18.1 | 16.0 | 2.06 | 8.765 | | |
| 700.0 | 700.0 | 697.9 | 697.3 | 1.2 | 1.2 | 9.93 | 2.8 | 26.4 | 25.8 | 23.4 | 2.39 | 10.785 | | |
| 800.0 | 800.0 | 796.4 | 795.1 | 1.4 | 1.5 | 9.04 | 5.0 | 38.1 | 35.3 | 32.6 | 2.74 | 12.883 | | |
| 900.0 | 899.9 | 894.3 | 891.9 | 1.6 | 1.8 | 8.59 | 7.7 | 53.0 | 46.5 | 43.4 | 3.09 | 15.062 | | |
| 1,000.0 | 999.7 | 991.7 | 987.5 | 1.7 | 2.1 | 8.37 | 11.1 | 71.1 | 59.3 | 55.9 | 3.43 | 17.291 | | |
| 1,100.0 | 1,099.4 | 1,088.4 | 1,081.8 | 2.0 | 2.5 | 8.27 | 15.0 | 92.1 | 73.8 | 70.1 | 3.78 | 19.552 | | |
| 1,200.0 | 1,198.9 | 1,185.5 | 1,175.7 | 2.2 | 2.9 | 8.25 | 19.5 | 116.2 | 89.7 | 85.6 | 4.12 | 21.769 | | |
| 1,300.0 | 1,298.3 | 1,284.4 | 1,271.2 | 2.4 | 3.4 | 8.35 | 24.1 | 141.4 | 104.6 | 100.1 | 4.47 | 23.392 | | |
| 1,400.0 | 1,397.4 | 1,383.5 | 1,367.0 | 2.7 | 3.9 | 8.54 | 28.8 | 166.6 | 117.7 | 112.9 | 4.82 | 24.418 | | |
| 1,500.0 | 1,496.3 | 1,482.8 | 1,462.9 | 2.9 | 4.3 | 8.82 | 33.5 | 191.9 | 129.2 | 124.0 | 5.17 | 24.966 | | |
| 1,600.0 | 1,594.9 | 1,582.3 | 1,559.1 | 3.2 | 4.8 | 9.16 | 38.2 | 217.2 | 138.9 | 133.4 | 5.53 | 25.123 | | |
| 1,700.0 | 1,693.4 | 1,681.9 | 1,655.3 | 3.6 | 5.3 | 9.53 | 42.9 | 242.5 | 147.8 | 141.9 | 5.89 | 25.085 | | |
| 1,800.0 | 1,791.9 | 1,781.5 | 1,751.5 | 3.9 | 5.8 | 9.85 | 47.6 | 267.9 | 156.7 | 150.4 | 6.26 | 25.046 | | |
| 1,900.0 | 1,890.4 | 1,881.1 | 1,847.7 | 4.2 | 6.3 | 10.14 | 52.3 | 293.2 | 165.6 | 158.9 | 6.62 | 25.007 | | |
| 2,000.0 | 1,988.9 | 1,980.7 | 1,943.9 | 4.5 | 6.8 | 10.40 | 57.0 | 318.6 | 174.4 | 167.5 | 6.99 | 24.967 | | |
| 2,100.0 | 2,087.3 | 2,080.3 | 2,040.1 | 4.9 | 7.2 | 10.64 | 61.7 | 343.9 | 183.3 | 176.0 | 7.35 | 24.927 | | |
| 2,200.0 | 2,185.8 | 2,179.9 | 2,136.3 | 5.2 | 7.7 | 10.85 | 66.4 | 369.3 | 192.2 | 184.5 | 7.72 | 24.888 | | |
| 2,300.0 | 2,284.3 | 2,279.5 | 2,232.5 | 5.5 | 8.2 | 11.04 | 71.1 | 394.6 | 201.1 | 193.0 | 8.09 | 24.850 | | |
| 2,400.0 | 2,382.8 | 2,379.1 | 2,328.7 | 5.9 | 8.7 | 11.22 | 75.8 | 420.0 | 210.0 | 201.6 | 8.47 | 24.812 | | |
| 2,500.0 | 2,481.3 | 2,478.8 | 2,424.9 | 6.2 | 9.2 | 11.39 | 80.5 | 445.3 | 218.9 | 210.1 | 8.84 | 24.775 | | |
| 2,600.0 | 2,579.7 | 2,578.4 | 2,521.1 | 6.6 | 9.7 | 11.54 | 85.2 | 470.7 | 227.8 | 218.6 | 9.21 | 24.739 | | |
| 2,700.0 | 2,678.2 | 2,678.0 | 2,617.4 | 6.9 | 10.2 | 11.68 | 89.8 | 496.0 | 236.8 | 227.2 | 9.58 | 24.704 | | |
| 2,800.0 | 2,776.7 | 2,777.6 | 2,713.6 | 7.2 | 10.7 | 11.81 | 94.5 | 521.4 | 245.7 | 235.7 | 9.96 | 24.670 | | |
| 2,900.0 | 2,875.2 | 2,877.2 | 2,809.8 | 7.6 | 11.2 | 11.93 | 99.2 | 546.7 | 254.6 | 244.2 | 10.33 | 24.637 | | |
| 3,000.0 | 2,973.7 | 2,976.8 | 2,906.0 | 7.9 | 11.7 | 12.04 | 103.9 | 572.1 | 263.5 | 252.8 | 10.71 | 24.605 | | |
| 3,100.0 | 3,072.1 | 3,076.4 | 3,002.2 | 8.3 | 12.2 | 12.14 | 108.6 | 597.4 | 272.4 | 261.3 | 11.08 | 24.574 | | |
| 3,200.0 | 3,170.6 | 3,176.0 | 3,098.4 | 8.6 | 12.7 | 12.24 | 113.3 | 622.7 | 281.3 | 269.8 | 11.46 | 24.544 | | |
| 3,300.0 | 3,269.1 | 3,275.6 | 3,194.6 | 9.0 | 13.2 | 12.33 | 118.0 | 648.1 | 290.2 | 278.4 | 11.84 | 24.515 | | |
| 3,400.0 | 3,367.6 | 3,375.2 | 3,290.8 | 9.3 | 13.6 | 12.42 | 122.7 | 673.4 | 299.1 | 286.9 | 12.22 | 24.487 | | |
| 3,500.0 | 3,466.1 | 3,474.8 | 3,387.0 | 9.7 | 14.1 | 12.50 | 127.4 | 698.8 | 308.0 | 295.4 | 12.59 | 24.460 | | |
| 3,600.0 | 3,564.5 | 3,574.4 | 3,483.2 | 10.0 | 14.6 | 12.58 | 132.1 | 724.1 | 317.0 | 304.0 | 12.97 | 24.434 | | |
| 3,700.0 | 3,663.0 | 3,674.0 | 3,579.4 | 10.4 | 15.1 | 12.65 | 136.8 | 749.5 | 325.9 | 312.5 | 13.35 | 24.409 | | |
| 3,800.0 | 3,761.5 | 3,773.6 | 3,675.6 | 10.7 | 15.6 | 12.72 | 141.5 | 774.8 | 334.8 | 321.1 | 13.73 | 24.384 | | |
| 3,900.0 | 3,860.0 | 3,873.2 | 3,771.8 | 11.1 | 16.1 | 12.79 | 146.2 | 800.2 | 343.7 | 329.6 | 14.11 | 24.361 | | |
| 4,000.0 | 3,958.5 | 3,972.8 | 3,868.0 | 11.4 | 16.6 | 12.85 | 150.9 | 825.5 | 352.6 | 338.1 | 14.49 | 24.338 | | |
| 4,100.0 | 4,057.0 | 4,072.4 | 3,964.3 | 11.8 | 17.1 | 12.91 | 155.6 | 850.9 | 361.5 | 346.7 | 14.87 | 24.316 | | |
| 4,200.0 | 4,155.4 | 4,172.0 | 4,060.5 | 12.1 | 17.6 | 12.96 | 160.3 | 876.2 | 370.5 | 355.2 | 15.25 | 24.294 | | |
| 4,300.0 | 4,253.9 | 4,271.6 | 4,156.7 | 12.5 | 18.1 | 13.02 | 165.0 | 901.6 | 379.4 | 363.7 | 15.63 | 24.274 | | |
| 4,400.0 | 4,352.4 | 4,371.2 | 4,252.9 | 12.8 | 18.6 | 13.07 | 169.7 | 926.9 | 388.3 | 372.3 | 16.01 | 24.254 | | |
| 4,500.0 | 4,450.9 | 4,470.8 | 4,349.1 | 13.2 | 19.1 | 13.12 | 174.4 | 952.3 | 397.2 | 380.8 | 16.39 | 24.235 | | |
| 4,600.0 | 4,549.4 | 4,570.4 | 4,445.3 | 13.5 | 19.6 | 13.16 | 179.1 | 977.6 | 406.1 | 389.4 | 16.77 | 24.216 | | |
| 4,700.0 | 4,647.8 | 4,670.0 | 4,541.5 | 13.9 | 20.1 | 13.21 | 183.8 | 1,003.0 | 415.0 | 397.9 | 17.15 | 24.198 | | |
| 4,800.0 | 4,746.3 | 4,769.6 | 4,637.7 | 14.2 | 20.6 | 13.25 | 188.5 | 1,028.3 | 424.0 | 406.4 | 17.53 | 24.180 | | |
| 4,900.0 | 4,844.8 | 4,874.7 | 4,739.3 | 14.6 | 21.1 | 13.30 | 193.4 | 1,054.8 | 432.7 | 414.8 | 17.93 | 24.138 | | |
| 5,000.0 | 4,943.3 | 4,992.2 | 4,853.7 | 14.9 | 21.6 | 13.42 | 198.3 | 1,081.0 | 438.3 | 420.0 | 18.35 | 23.887 | | |
| 5,100.0 | 5,041.8 | 5,110.0 | 4,969.5 | 15.3 | 22.0 | 13.62 | 202.3 | 1,102.6 | 440.3 | 421.5 | 18.78 | 23.442 | | |

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 Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1E-34H - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|------------------------------|----------------------|---------|-----------------------------|--|
| Survey Program: 0-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 | 5,140.6 | 5,227.9 | 5,086.1 | 15.6 | 22.3 | 13.84 | 205.4 | 1,119.5 | 439.7 | 420.5 | 19.21 | 22.892 | | |
| 5,300.0 | 5,239.7 | 5,345.7 | 5,203.2 | 15.9 | 22.5 | 14.10 | 207.7 | 1,131.6 | 436.8 | 417.2 | 19.63 | 22.250 | | |
| 5,400.0 | 5,339.0 | 5,463.1 | 5,320.4 | 16.1 | 22.7 | 14.39 | 209.0 | 1,139.0 | 431.5 | 411.5 | 20.05 | 21.521 | | |
| 5,500.0 | 5,438.5 | 5,580.0 | 5,437.3 | 16.4 | 22.8 | 14.71 | 209.5 | 1,141.7 | 424.0 | 403.5 | 20.47 | 20.710 | | |
| 5,600.0 | 5,538.1 | 5,680.8 | 5,538.1 | 16.6 | 22.9 | 14.99 | 209.5 | 1,141.7 | 415.8 | 394.9 | 20.85 | 19.943 | | |
| 5,700.0 | 5,637.9 | 5,780.6 | 5,637.9 | 16.8 | 23.0 | 15.21 | 209.5 | 1,141.7 | 409.3 | 388.1 | 21.21 | 19.298 | | |
| 5,800.0 | 5,737.7 | 5,880.5 | 5,737.7 | 16.9 | 23.0 | 15.39 | 209.5 | 1,141.7 | 404.5 | 383.0 | 21.55 | 18.767 | | |
| 5,900.0 | 5,837.7 | 5,980.4 | 5,837.7 | 17.0 | 23.1 | 15.50 | 209.5 | 1,141.7 | 401.4 | 379.5 | 21.88 | 18.344 | | |
| 6,000.0 | 5,937.7 | 6,080.4 | 5,937.7 | 17.2 | 23.2 | 15.55 | 209.5 | 1,141.7 | 400.0 | 377.8 | 22.19 | 18.023 | | |
| 6,056.3 | 5,994.0 | 6,136.7 | 5,994.0 | 17.2 | 23.2 | 15.56 | 209.5 | 1,141.7 | 399.7 | 377.4 | 22.37 | 17.866 | | |
| 6,100.0 | 6,037.7 | 6,180.4 | 6,037.7 | 17.3 | 23.3 | 89.86 | 209.5 | 1,141.7 | 399.9 | 377.4 | 22.51 | 17.763 | | |
| 6,200.0 | 6,137.7 | 6,280.4 | 6,137.7 | 17.4 | 23.4 | 89.86 | 209.5 | 1,141.7 | 399.9 | 377.0 | 22.84 | 17.505 | | |
| 6,300.0 | 6,237.7 | 6,380.4 | 6,237.7 | 17.5 | 23.4 | 89.86 | 209.5 | 1,141.7 | 399.9 | 376.7 | 23.18 | 17.254 | | |
| 6,400.0 | 6,337.7 | 6,480.4 | 6,337.7 | 17.6 | 23.5 | 89.86 | 209.5 | 1,141.7 | 399.9 | 376.4 | 23.51 | 17.009 | | |
| 6,500.0 | 6,437.7 | 6,580.4 | 6,437.7 | 17.7 | 23.6 | 89.86 | 209.5 | 1,141.7 | 399.9 | 376.0 | 23.84 | 16.771 | | |
| 6,600.0 | 6,537.7 | 6,680.4 | 6,537.7 | 17.8 | 23.7 | 89.86 | 209.5 | 1,141.7 | 399.9 | 375.7 | 24.18 | 16.540 | | |
| 6,700.0 | 6,637.7 | 6,780.4 | 6,637.7 | 17.9 | 23.8 | 89.86 | 209.5 | 1,141.7 | 399.9 | 375.4 | 24.51 | 16.314 | | |
| 6,736.3 | 6,674.0 | 6,816.7 | 6,674.0 | 18.0 | 23.8 | -90.24 | 209.5 | 1,141.7 | 399.9 | 375.3 | 24.61 | 16.250 | | |
| 6,800.0 | 6,737.6 | 6,880.3 | 6,737.6 | 18.0 | 23.9 | -90.62 | 209.5 | 1,141.7 | 399.9 | 375.2 | 24.74 | 16.165 | | |
| 6,900.0 | 6,836.1 | 6,978.9 | 6,836.1 | 18.1 | 24.0 | -92.90 | 209.5 | 1,141.7 | 400.4 | 375.8 | 24.64 | 16.251 | | |
| 7,000.0 | 6,931.4 | 7,074.1 | 6,931.4 | 18.1 | 24.0 | -96.76 | 209.5 | 1,141.7 | 403.1 | 378.6 | 24.46 | 16.478 | | |
| 7,100.0 | 7,021.6 | 7,176.1 | 7,033.0 | 18.1 | 24.1 | -101.49 | 202.5 | 1,141.8 | 409.5 | 385.0 | 24.49 | 16.723 | | |
| 7,200.0 | 7,104.9 | 7,284.5 | 7,138.8 | 18.2 | 24.1 | -106.02 | 179.2 | 1,142.1 | 419.0 | 394.2 | 24.79 | 16.897 | | |
| 7,300.0 | 7,179.7 | 7,400.3 | 7,246.5 | 18.3 | 24.2 | -110.24 | 137.2 | 1,142.7 | 430.9 | 405.6 | 25.28 | 17.047 | | |
| 7,400.0 | 7,244.6 | 7,524.3 | 7,352.8 | 18.5 | 24.2 | -114.05 | 73.5 | 1,143.7 | 444.2 | 418.4 | 25.82 | 17.202 | | |
| 7,500.0 | 7,298.3 | 7,657.2 | 7,452.6 | 18.8 | 24.3 | -117.31 | -13.9 | 1,144.9 | 457.7 | 431.3 | 26.33 | 17.383 | | |
| 7,600.0 | 7,339.7 | 7,798.9 | 7,539.3 | 19.2 | 24.6 | -119.92 | -125.7 | 1,146.5 | 470.0 | 443.1 | 26.85 | 17.503 | | |
| 7,700.0 | 7,368.0 | 7,948.6 | 7,605.2 | 19.8 | 25.1 | -121.74 | -259.9 | 1,148.5 | 479.8 | 452.4 | 27.45 | 17.484 | | |
| 7,800.0 | 7,382.8 | 8,104.2 | 7,642.5 | 20.6 | 25.9 | -122.67 | -410.5 | 1,150.7 | 486.1 | 457.9 | 28.24 | 17.217 | | |
| 7,900.0 | 7,385.0 | 8,239.6 | 7,649.0 | 21.4 | 26.8 | -122.72 | -545.6 | 1,152.6 | 488.4 | 458.7 | 29.71 | 16.437 | | |
| 8,000.0 | 7,385.0 | 8,339.5 | 7,649.0 | 22.4 | 27.6 | -122.63 | -645.6 | 1,154.1 | 489.6 | 457.8 | 31.80 | 15.396 | | |
| 8,100.0 | 7,385.0 | 8,439.5 | 7,649.0 | 23.5 | 28.4 | -122.54 | -745.6 | 1,155.5 | 490.8 | 456.8 | 34.03 | 14.426 | | |
| 8,200.0 | 7,385.0 | 8,539.5 | 7,649.0 | 24.6 | 29.4 | -122.45 | -845.6 | 1,156.9 | 492.1 | 455.7 | 36.36 | 13.532 | | |
| 8,300.0 | 7,385.0 | 8,639.5 | 7,649.0 | 25.8 | 30.4 | -122.36 | -945.5 | 1,158.4 | 493.3 | 454.5 | 38.80 | 12.715 | | |
| 8,400.0 | 7,385.0 | 8,739.5 | 7,649.0 | 27.1 | 31.5 | -122.27 | -1,045.5 | 1,159.8 | 494.5 | 453.2 | 41.31 | 11.972 | | |
| 8,500.0 | 7,385.0 | 8,839.5 | 7,649.0 | 28.4 | 32.7 | -122.18 | -1,145.5 | 1,161.3 | 495.7 | 451.9 | 43.88 | 11.297 | | |
| 8,600.0 | 7,385.0 | 8,939.5 | 7,649.0 | 29.8 | 33.9 | -122.09 | -1,245.5 | 1,162.7 | 497.0 | 450.5 | 46.52 | 10.684 | | |
| 8,700.0 | 7,385.0 | 9,039.5 | 7,649.0 | 31.2 | 35.1 | -122.00 | -1,345.4 | 1,164.2 | 498.2 | 449.0 | 49.20 | 10.127 | | |
| 8,800.0 | 7,385.0 | 9,139.5 | 7,649.0 | 32.7 | 36.4 | -121.91 | -1,445.4 | 1,165.6 | 499.4 | 447.5 | 51.92 | 9.620 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - Billings 1F-34H - Hz - Plan #1 | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 0-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 | 90.05 | 0.0 | 19.6 | 19.6 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.2 | 0.2 | 90.05 | 0.0 | 19.6 | 19.6 | 19.3 | 0.30 | 64.479 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.05 | 0.0 | 19.6 | 19.6 | 18.9 | 0.65 | 29.998 CC, ES | | | |
| 300.0 | 300.0 | 299.3 | 299.3 | 0.5 | 0.5 | 89.36 | 0.2 | 21.3 | 21.3 | 20.3 | 1.00 | 21.219 | | | |
| 400.0 | 400.0 | 398.3 | 398.2 | 0.7 | 0.7 | 87.83 | 1.0 | 26.4 | 26.5 | 25.1 | 1.37 | 19.326 SF | | | |
| 500.0 | 500.0 | 496.9 | 496.4 | 0.8 | 0.9 | 86.29 | 2.3 | 34.8 | 35.0 | 33.3 | 1.76 | 19.914 | | | |
| 600.0 | 600.0 | 594.8 | 593.5 | 1.0 | 1.2 | 85.08 | 4.0 | 46.4 | 47.1 | 44.9 | 2.19 | 21.519 | | | |
| 700.0 | 700.0 | 691.9 | 689.5 | 1.2 | 1.5 | 10.02 | 6.2 | 61.2 | 61.6 | 59.2 | 2.38 | 25.830 | | | |
| 800.0 | 800.0 | 788.2 | 784.1 | 1.4 | 1.8 | 9.66 | 8.9 | 79.1 | 77.8 | 75.1 | 2.73 | 28.512 | | | |
| 900.0 | 899.9 | 883.8 | 877.3 | 1.6 | 2.2 | 9.50 | 12.0 | 99.9 | 95.6 | 92.5 | 3.07 | 31.129 | | | |
| 1,000.0 | 999.7 | 978.4 | 968.9 | 1.7 | 2.7 | 9.45 | 15.5 | 123.5 | 114.9 | 111.5 | 3.41 | 33.690 | | | |
| 1,100.0 | 1,099.4 | 1,075.5 | 1,062.2 | 2.0 | 3.2 | 9.49 | 19.5 | 149.9 | 134.9 | 131.1 | 3.76 | 35.896 | | | |
| 1,200.0 | 1,198.9 | 1,173.8 | 1,156.7 | 2.2 | 3.7 | 9.63 | 23.5 | 176.7 | 153.2 | 149.1 | 4.11 | 37.312 | | | |
| 1,300.0 | 1,298.3 | 1,272.4 | 1,251.5 | 2.4 | 4.2 | 9.83 | 27.5 | 203.6 | 169.8 | 165.4 | 4.46 | 38.111 | | | |
| 1,400.0 | 1,397.4 | 1,371.3 | 1,346.5 | 2.7 | 4.7 | 10.09 | 31.5 | 230.6 | 184.8 | 180.0 | 4.81 | 38.424 | | | |
| 1,500.0 | 1,496.3 | 1,470.4 | 1,441.8 | 2.9 | 5.2 | 10.40 | 35.6 | 257.6 | 198.0 | 192.9 | 5.16 | 38.346 | | | |
| 1,600.0 | 1,594.9 | 1,569.7 | 1,537.3 | 3.2 | 5.7 | 10.76 | 39.6 | 284.6 | 209.6 | 204.1 | 5.52 | 37.948 | | | |
| 1,700.0 | 1,693.4 | 1,669.1 | 1,632.9 | 3.6 | 6.3 | 11.15 | 43.6 | 311.8 | 220.3 | 214.4 | 5.89 | 37.413 | | | |
| 1,800.0 | 1,791.9 | 1,768.5 | 1,728.4 | 3.9 | 6.8 | 11.50 | 47.7 | 338.9 | 231.0 | 224.7 | 6.26 | 36.930 | | | |
| 1,900.0 | 1,890.4 | 1,868.0 | 1,824.0 | 4.2 | 7.3 | 11.81 | 51.7 | 366.0 | 241.7 | 235.1 | 6.62 | 36.490 | | | |
| 2,000.0 | 1,988.9 | 1,967.4 | 1,919.5 | 4.5 | 7.8 | 12.11 | 55.8 | 393.1 | 252.5 | 245.5 | 7.00 | 36.088 | | | |
| 2,100.0 | 2,087.3 | 2,066.8 | 2,015.1 | 4.9 | 8.3 | 12.37 | 59.8 | 420.2 | 263.2 | 255.8 | 7.37 | 35.718 | | | |
| 2,200.0 | 2,185.8 | 2,166.2 | 2,110.7 | 5.2 | 8.9 | 12.62 | 63.9 | 447.3 | 273.9 | 266.2 | 7.74 | 35.378 | | | |
| 2,300.0 | 2,284.3 | 2,265.6 | 2,206.2 | 5.5 | 9.4 | 12.85 | 68.0 | 474.4 | 284.7 | 276.6 | 8.12 | 35.062 | | | |
| 2,400.0 | 2,382.8 | 2,365.0 | 2,301.8 | 5.9 | 9.9 | 13.06 | 72.0 | 501.5 | 295.4 | 287.0 | 8.50 | 34.770 | | | |
| 2,500.0 | 2,481.3 | 2,464.4 | 2,397.4 | 6.2 | 10.4 | 13.26 | 76.1 | 528.6 | 306.2 | 297.3 | 8.88 | 34.497 | | | |
| 2,600.0 | 2,579.7 | 2,563.9 | 2,492.9 | 6.6 | 11.0 | 13.44 | 80.1 | 555.7 | 317.0 | 307.7 | 9.26 | 34.243 | | | |
| 2,700.0 | 2,678.2 | 2,663.3 | 2,588.5 | 6.9 | 11.5 | 13.61 | 84.2 | 582.8 | 327.7 | 318.1 | 9.64 | 34.005 | | | |
| 2,800.0 | 2,776.7 | 2,762.7 | 2,684.0 | 7.2 | 12.0 | 13.77 | 88.2 | 609.9 | 338.5 | 328.5 | 10.02 | 33.782 | | | |
| 2,900.0 | 2,875.2 | 2,862.1 | 2,779.6 | 7.6 | 12.5 | 13.92 | 92.3 | 637.0 | 349.3 | 338.9 | 10.40 | 33.572 | | | |
| 3,000.0 | 2,973.7 | 2,961.5 | 2,875.2 | 7.9 | 13.1 | 14.06 | 96.3 | 664.1 | 360.0 | 349.2 | 10.79 | 33.375 | | | |
| 3,100.0 | 3,072.1 | 3,060.9 | 2,970.7 | 8.3 | 13.6 | 14.20 | 100.4 | 691.2 | 370.8 | 359.6 | 11.17 | 33.188 | | | |
| 3,200.0 | 3,170.6 | 3,160.3 | 3,066.3 | 8.6 | 14.1 | 14.32 | 104.4 | 718.3 | 381.6 | 370.0 | 11.56 | 33.012 | | | |
| 3,300.0 | 3,269.1 | 3,259.8 | 3,161.9 | 9.0 | 14.6 | 14.44 | 108.5 | 745.4 | 392.4 | 380.4 | 11.95 | 32.846 | | | |
| 3,400.0 | 3,367.6 | 3,359.2 | 3,257.4 | 9.3 | 15.1 | 14.56 | 112.5 | 772.5 | 403.1 | 390.8 | 12.33 | 32.688 | | | |
| 3,500.0 | 3,466.1 | 3,458.6 | 3,353.0 | 9.7 | 15.7 | 14.66 | 116.6 | 799.6 | 413.9 | 401.2 | 12.72 | 32.539 | | | |
| 3,600.0 | 3,564.5 | 3,558.0 | 3,448.6 | 10.0 | 16.2 | 14.76 | 120.6 | 826.7 | 424.7 | 411.6 | 13.11 | 32.397 | | | |
| 3,700.0 | 3,663.0 | 3,657.4 | 3,544.1 | 10.4 | 16.7 | 14.86 | 124.7 | 853.8 | 435.5 | 422.0 | 13.50 | 32.261 | | | |
| 3,800.0 | 3,761.5 | 3,756.8 | 3,639.7 | 10.7 | 17.2 | 14.95 | 128.7 | 880.9 | 446.3 | 432.4 | 13.89 | 32.133 | | | |
| 3,900.0 | 3,860.0 | 3,856.2 | 3,735.2 | 11.1 | 17.8 | 15.04 | 132.8 | 908.0 | 457.0 | 442.8 | 14.28 | 32.010 | | | |
| 4,000.0 | 3,958.5 | 3,955.7 | 3,830.8 | 11.4 | 18.3 | 15.12 | 136.8 | 935.1 | 467.8 | 453.2 | 14.67 | 31.893 | | | |
| 4,100.0 | 4,057.0 | 4,055.1 | 3,926.4 | 11.8 | 18.8 | 15.20 | 140.9 | 962.2 | 478.6 | 463.6 | 15.06 | 31.781 | | | |
| 4,200.0 | 4,155.4 | 4,154.5 | 4,021.9 | 12.1 | 19.3 | 15.28 | 144.9 | 989.3 | 489.4 | 474.0 | 15.45 | 31.674 | | | |

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 Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - BILLINGS 2-34 (EXISTING) - Existing - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-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 | 7,385.0 | 7,364.0 | 7,364.0 | 58.1 | 12.9 | 90.00 | -3,443.1 | 585.0 | 421.7 | 352.2 | 69.51 | 6.067 | | |
| 10,500.0 | 7,385.0 | 7,364.0 | 7,364.0 | 59.8 | 12.9 | 90.00 | -3,443.1 | 585.0 | 330.9 | 259.7 | 71.22 | 4.647 | | |
| 10,600.0 | 7,385.0 | 7,364.0 | 7,364.0 | 61.5 | 12.9 | 90.00 | -3,443.1 | 585.0 | 247.4 | 174.5 | 72.93 | 3.392 | | |
| 10,700.0 | 7,385.0 | 7,364.0 | 7,364.0 | 63.1 | 12.9 | 90.00 | -3,443.1 | 585.0 | 181.4 | 106.7 | 74.65 | 2.429 | | |
| 10,791.6 | 7,385.0 | 7,364.0 | 7,364.0 | 64.7 | 12.9 | 90.00 | -3,443.1 | 585.0 | 156.5 | 80.3 | 76.22 | 2.054 CC, ES | | |
| 10,800.0 | 7,385.0 | 7,364.0 | 7,364.0 | 64.8 | 12.9 | 90.00 | -3,443.1 | 585.0 | 156.7 | 80.4 | 76.37 | 2.053 SF | | |
| 10,900.0 | 7,385.0 | 7,364.0 | 7,364.0 | 66.5 | 12.9 | 90.00 | -3,443.1 | 585.0 | 190.4 | 112.3 | 78.09 | 2.438 | | |
| 11,000.0 | 7,385.0 | 7,364.0 | 7,364.0 | 68.2 | 12.9 | 90.00 | -3,443.1 | 585.0 | 260.6 | 180.8 | 79.81 | 3.266 | | |
| 11,100.0 | 7,385.0 | 7,364.0 | 7,364.0 | 69.9 | 12.9 | 90.00 | -3,443.1 | 585.0 | 345.9 | 264.3 | 81.53 | 4.242 | | |
| 11,200.0 | 7,385.0 | 7,364.0 | 7,364.0 | 71.6 | 12.9 | 90.00 | -3,443.1 | 585.0 | 437.4 | 354.1 | 83.25 | 5.253 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - BILLINGS 41-34 (EXISTING) - Existing - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|--------|
| Survey Program: 123-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 | Factor | | |
| 7,200.0 | 7,104.9 | 7,181.2 | 7,105.4 | 18.2 | 17.8 | -46.00 | -304.1 | 1,040.3 | 471.2 | 440.5 | 30.70 | 15.345 | | |
| 7,300.0 | 7,179.7 | 7,257.1 | 7,181.4 | 18.3 | 17.9 | -55.32 | -303.5 | 1,040.5 | 421.7 | 392.3 | 29.47 | 14.312 | | |
| 7,400.0 | 7,244.6 | 7,320.7 | 7,245.0 | 18.5 | 18.0 | -66.46 | -302.6 | 1,040.7 | 371.6 | 342.7 | 28.90 | 12.859 | | |
| 7,500.0 | 7,298.3 | 7,370.0 | 7,294.3 | 18.8 | 18.0 | -77.26 | -302.4 | 1,041.0 | 328.8 | 299.7 | 29.10 | 11.298 | | |
| 7,600.0 | 7,339.7 | 7,410.8 | 7,335.0 | 19.2 | 18.1 | -86.29 | -302.7 | 1,041.4 | 303.1 | 273.4 | 29.73 | 10.197 | | |
| 7,647.4 | 7,354.8 | 7,426.7 | 7,350.9 | 19.5 | 18.1 | -89.42 | -302.8 | 1,041.6 | 299.8 | 269.7 | 30.10 | 9.963 CC, ES, SF | | |
| 7,700.0 | 7,368.0 | 7,440.4 | 7,364.6 | 19.8 | 18.1 | -91.61 | -302.8 | 1,041.7 | 304.1 | 273.6 | 30.50 | 9.971 | | |
| 7,800.0 | 7,382.8 | 7,455.1 | 7,379.3 | 20.6 | 18.1 | -91.75 | -302.8 | 1,041.8 | 334.9 | 303.4 | 31.51 | 10.631 | | |
| 7,900.0 | 7,385.0 | 7,457.1 | 7,381.3 | 21.4 | 18.1 | -89.48 | -302.8 | 1,041.9 | 389.8 | 357.1 | 32.68 | 11.928 | | |
| 8,000.0 | 7,385.0 | 7,456.9 | 7,381.1 | 22.4 | 18.1 | -89.45 | -302.8 | 1,041.9 | 460.1 | 426.2 | 33.90 | 13.573 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 S34-T2N-R68W (Billings) - BILLINGS 42-34 (EXISTING) - Existing - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|--|
| Survey Program: 0-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 | | |
| 8,800.0 | 7,385.0 | 7,359.0 | 7,359.0 | 32.7 | 12.8 | -90.00 | -1,874.2 | 989.5 | 489.9 | 447.1 | 42.81 | 11.443 | | |
| 8,900.0 | 7,385.0 | 7,359.0 | 7,359.0 | 34.1 | 12.8 | -90.00 | -1,874.2 | 989.5 | 406.8 | 362.4 | 44.41 | 9.160 | | |
| 9,000.0 | 7,385.0 | 7,359.0 | 7,359.0 | 35.6 | 12.8 | -90.00 | -1,874.2 | 989.5 | 333.1 | 287.1 | 46.02 | 7.238 | | |
| 9,100.0 | 7,385.0 | 7,359.0 | 7,359.0 | 37.2 | 12.8 | -90.00 | -1,874.2 | 989.5 | 276.5 | 228.9 | 47.65 | 5.803 | | |
| 9,200.0 | 7,385.0 | 7,359.0 | 7,359.0 | 38.7 | 12.8 | -90.00 | -1,874.2 | 989.5 | 248.9 | 199.6 | 49.29 | 5.049 | | |
| 9,222.6 | 7,385.0 | 7,359.0 | 7,359.0 | 39.0 | 12.8 | -90.00 | -1,874.2 | 989.5 | 247.8 | 198.2 | 49.66 | 4.990 | CC, ES, SF | |
| 9,300.0 | 7,385.0 | 7,359.0 | 7,359.0 | 40.2 | 12.8 | -90.00 | -1,874.2 | 989.5 | 259.6 | 208.7 | 50.94 | 5.097 | | |
| 9,400.0 | 7,385.0 | 7,359.0 | 7,359.0 | 41.8 | 12.8 | -90.00 | -1,874.2 | 989.5 | 304.8 | 252.2 | 52.60 | 5.795 | | |
| 9,500.0 | 7,385.0 | 7,359.0 | 7,359.0 | 43.4 | 12.8 | -90.00 | -1,874.2 | 989.5 | 372.0 | 317.7 | 54.26 | 6.855 | | |
| 9,600.0 | 7,385.0 | 7,359.0 | 7,359.0 | 45.0 | 12.8 | -90.00 | -1,874.2 | 989.5 | 451.5 | 395.6 | 55.94 | 8.071 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 | | | | | | | | | | | | S34-T2N-R68W (Billings) - PURITAN 44-34 (EXISTING) - Existing - SURVEYS | | Offset Site Error: | | 0.0 ft | |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-----------------|------------------|-------------------|------------|---|------------|--------------------|--|--------|--|
| Survey Program: | | | | | | | | | | | | 708-MWD | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre | Between Centres | Between Ellipses | Total Uncertainty | Separation | Warning | | | | | |
| Depth (ft) | Depth (ft) | Depth (ft) | Depth (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | Axis | Factor | | | | | |
| 11,600.0 | 7,385.0 | 7,397.1 | 7,364.6 | 78.4 | 14.3 | -91.36 | -4,565.6 | 1,060.4 | 447.6 | 356.2 | 91.42 | 4.896 | | | | | |
| 11,700.0 | 7,385.0 | 7,395.6 | 7,363.1 | 80.1 | 14.3 | -91.10 | -4,565.6 | 1,060.4 | 384.1 | 291.0 | 93.15 | 4.124 | | | | | |
| 11,800.0 | 7,385.0 | 7,394.1 | 7,361.6 | 81.8 | 14.3 | -90.83 | -4,565.6 | 1,060.4 | 338.8 | 243.9 | 94.89 | 3.570 | | | | | |
| 11,900.0 | 7,385.0 | 7,392.7 | 7,360.2 | 83.5 | 14.3 | -90.57 | -4,565.6 | 1,060.4 | 319.3 | 222.7 | 96.63 | 3.304 | | | | | |
| 11,914.0 | 7,385.0 | 7,392.5 | 7,360.0 | 83.8 | 14.3 | -90.53 | -4,565.6 | 1,060.4 | 319.0 | 222.1 | 96.87 | 3.293 | CC, ES, SF | | | | |
| 11,967.8 | 7,385.0 | 7,391.7 | 7,359.2 | 84.7 | 14.3 | -90.39 | -4,565.6 | 1,060.4 | 323.5 | 225.7 | 97.80 | 3.307 | | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Billings 1D-34H |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Reference Site: | S34-T2N-R68W (Billings) | MD Reference: | WELL @ 5008.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Billings 1D-34H | 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 @ 5008.0ft (Original Well Elev)

Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Billings 1D-34H

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.33°

