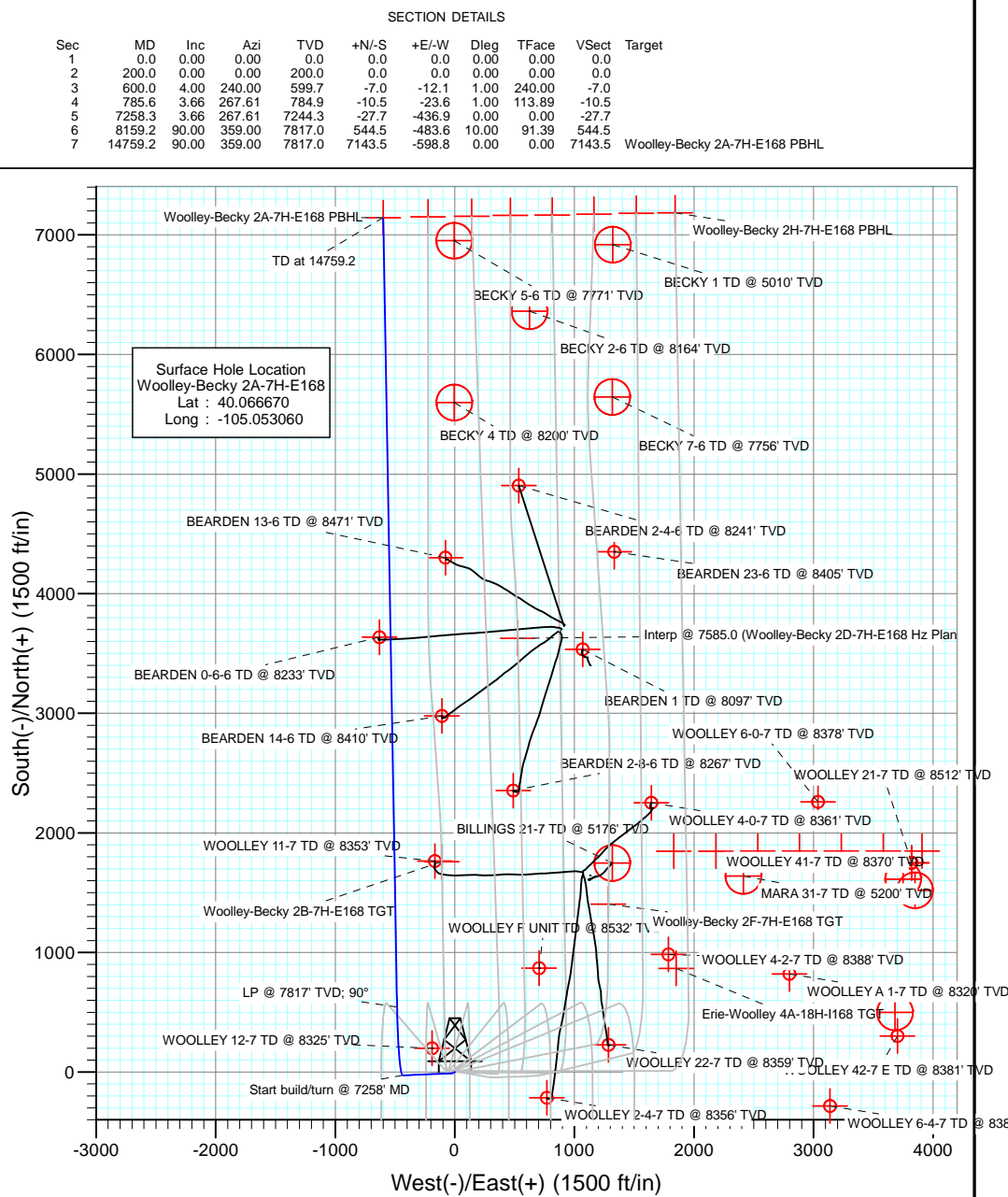
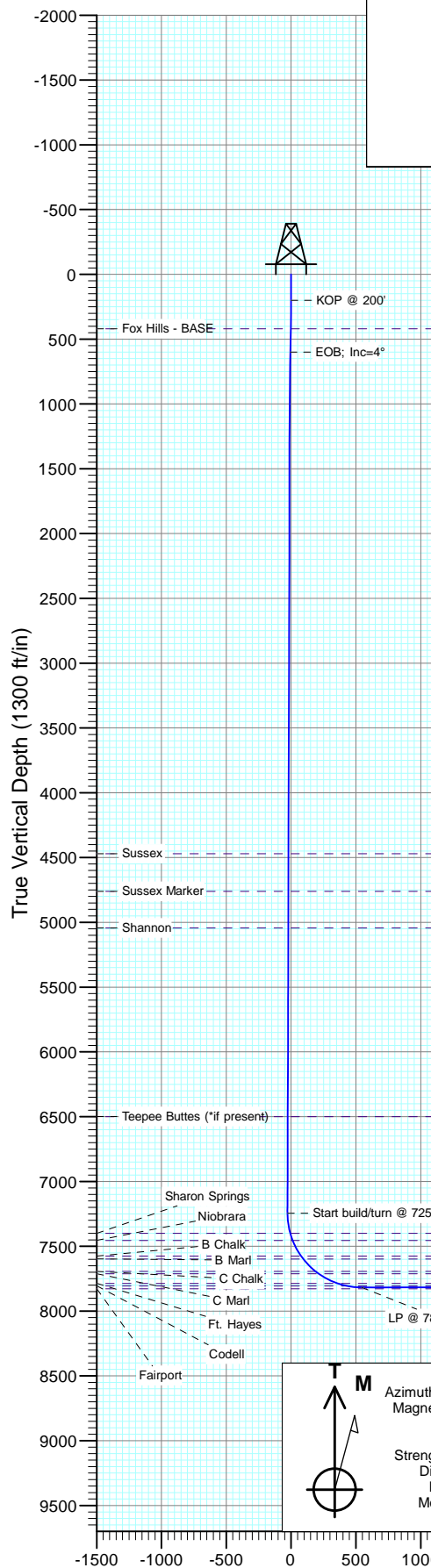




Project: DJ Wattenberg
Site: S7-T1N-R68W (Woolley-Sosa/Becky)
Well: Woolley-Becky 2A-7H-E168
Wellbore: Hz
Design: Plan #1



| DESIGN TARGET DETAILS | | | | | | | |
|-------------------------------|--------|--------|------------|------------|-----------|-------------|--|
| Name | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude | |
| Woolley-Becky 2A-7H-E168 PBHL | 7143.5 | -598.8 | 1274591.21 | 3124460.39 | 40.086280 | -105.055200 | |

TD at 14759.2 Woolley-Becky 2A-7H-E168 PBHL

| FORMATION TOP DETAILS | | |
|-----------------------|--------|-----------------------------|
| TVDPPath | MDPath | Formation |
| 420.0 | 420.1 | Fox Hills - BASE |
| 4471.0 | 4479.3 | Sussex |
| 4760.0 | 4768.9 | Sussex Marker |
| 5044.0 | 5053.4 | Shannon |
| 6500.0 | 6512.4 | Teepee Buttes (*if present) |
| 7400.0 | 7416.2 | Sharon Springs |
| 7456.0 | 7475.5 | Niobrara |
| 7575.0 | 7611.4 | B Chalk |
| 7598.0 | 7640.1 | B Marl |
| 7694.0 | 7776.3 | C Chalk |
| 7712.0 | 7806.4 | C Marl |
| 7787.0 | 7972.7 | Ft. Hayes |
| 7807.0 | 8051.9 | Codell |

Plan #1
Woolley-Becky 2A-7H-E168
13xxx; LR
WELL @ 5020.0ft (Original Well Elev)
Ground Elevation @ 4995.0
North American Datum 1983
Well Woolley-Becky 2A-7H-E168, True North

Vertical Section at 0.00° (1300 ft/in)

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | North Reference: | True |
| Well: | Woolley-Becky 2A-7H-E168 | 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 | | S7-T1N-R68W (Woolley-Sosa/Becky) | | | |
| Site Position: | | Northing: | 1,265,219.42 ft | Latitude: | 40.060530 |
| From: | Lat/Long | Easting: | 3,126,139.27 ft | Longitude: | -105.049370 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.29 ° |

| | | | | | | |
|----------------------|--------------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Woolley-Becky 2A-7H-E168 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,267,450.82 ft | Latitude: | 40.066670 |
| | +E/-W | 0.0 ft | Easting: | 3,125,095.16 ft | Longitude: | -105.053060 |
| 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 | 6/28/2013 | 8.71 | 66.66 | 52,709 |

| | | | | | |
|--------------------------|------------------------------|-------------------|-------------------|----------------------|-----|
| 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 | 0.00 | |

| 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 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 600.0 | 4.00 | 240.00 | 599.7 | -7.0 | -12.1 | 1.00 | 1.00 | 0.00 | 240.00 | |
| 785.6 | 3.66 | 267.61 | 784.9 | -10.5 | -23.6 | 1.00 | -0.18 | 14.87 | 113.89 | |
| 7,258.3 | 3.66 | 267.61 | 7,244.3 | -27.7 | -436.9 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,159.2 | 90.00 | 359.00 | 7,817.0 | 544.5 | -483.6 | 10.00 | 9.58 | 10.14 | 91.39 | |
| 14,759.2 | 90.00 | 359.00 | 7,817.0 | 7,143.5 | -598.8 | 0.00 | 0.00 | 0.00 | 0.00 | Woolley-Becky 2A-7H |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | North Reference: | True |
| Well: | Woolley-Becky 2A-7H-E168 | 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 | KOP @ 200' |
| 300.0 | 1.00 | 240.00 | 300.0 | -0.4 | -0.8 | -0.4 | 1.00 | 1.00 | |
| 400.0 | 2.00 | 240.00 | 400.0 | -1.7 | -3.0 | -1.7 | 1.00 | 1.00 | |
| 420.1 | 2.20 | 240.00 | 420.0 | -2.1 | -3.7 | -2.1 | 1.00 | 1.00 | Fox Hills - BASE |
| 500.0 | 3.00 | 240.00 | 499.9 | -3.9 | -6.8 | -3.9 | 1.00 | 1.00 | |
| 600.0 | 4.00 | 240.00 | 599.7 | -7.0 | -12.1 | -7.0 | 1.00 | 1.00 | EOB; Inc=4° |
| 700.0 | 3.71 | 254.28 | 699.5 | -9.6 | -18.2 | -9.6 | 1.00 | -0.29 | |
| 785.6 | 3.66 | 267.61 | 784.9 | -10.5 | -23.6 | -10.5 | 1.00 | -0.05 | |
| 800.0 | 3.66 | 267.61 | 799.2 | -10.5 | -24.5 | -10.5 | 0.00 | 0.00 | |
| 900.0 | 3.66 | 267.61 | 899.0 | -10.8 | -30.9 | -10.8 | 0.00 | 0.00 | |
| 1,000.0 | 3.66 | 267.61 | 998.8 | -11.0 | -37.3 | -11.0 | 0.00 | 0.00 | |
| 1,100.0 | 3.66 | 267.61 | 1,098.6 | -11.3 | -43.7 | -11.3 | 0.00 | 0.00 | |
| 1,200.0 | 3.66 | 267.61 | 1,198.4 | -11.6 | -50.1 | -11.6 | 0.00 | 0.00 | |
| 1,300.0 | 3.66 | 267.61 | 1,298.2 | -11.8 | -56.5 | -11.8 | 0.00 | 0.00 | |
| 1,400.0 | 3.66 | 267.61 | 1,398.0 | -12.1 | -62.9 | -12.1 | 0.00 | 0.00 | |
| 1,500.0 | 3.66 | 267.61 | 1,497.8 | -12.4 | -69.2 | -12.4 | 0.00 | 0.00 | |
| 1,600.0 | 3.66 | 267.61 | 1,597.6 | -12.6 | -75.6 | -12.6 | 0.00 | 0.00 | |
| 1,700.0 | 3.66 | 267.61 | 1,697.4 | -12.9 | -82.0 | -12.9 | 0.00 | 0.00 | |
| 1,800.0 | 3.66 | 267.61 | 1,797.2 | -13.2 | -88.4 | -13.2 | 0.00 | 0.00 | |
| 1,900.0 | 3.66 | 267.61 | 1,897.0 | -13.4 | -94.8 | -13.4 | 0.00 | 0.00 | |
| 2,000.0 | 3.66 | 267.61 | 1,996.8 | -13.7 | -101.2 | -13.7 | 0.00 | 0.00 | |
| 2,100.0 | 3.66 | 267.61 | 2,096.6 | -14.0 | -107.5 | -14.0 | 0.00 | 0.00 | |
| 2,200.0 | 3.66 | 267.61 | 2,196.4 | -14.2 | -113.9 | -14.2 | 0.00 | 0.00 | |
| 2,300.0 | 3.66 | 267.61 | 2,296.2 | -14.5 | -120.3 | -14.5 | 0.00 | 0.00 | |
| 2,400.0 | 3.66 | 267.61 | 2,396.0 | -14.8 | -126.7 | -14.8 | 0.00 | 0.00 | |
| 2,500.0 | 3.66 | 267.61 | 2,495.8 | -15.0 | -133.1 | -15.0 | 0.00 | 0.00 | |
| 2,600.0 | 3.66 | 267.61 | 2,595.6 | -15.3 | -139.5 | -15.3 | 0.00 | 0.00 | |
| 2,700.0 | 3.66 | 267.61 | 2,695.4 | -15.6 | -145.9 | -15.6 | 0.00 | 0.00 | |
| 2,800.0 | 3.66 | 267.61 | 2,795.2 | -15.8 | -152.2 | -15.8 | 0.00 | 0.00 | |
| 2,900.0 | 3.66 | 267.61 | 2,895.0 | -16.1 | -158.6 | -16.1 | 0.00 | 0.00 | |
| 3,000.0 | 3.66 | 267.61 | 2,994.7 | -16.4 | -165.0 | -16.4 | 0.00 | 0.00 | |
| 3,100.0 | 3.66 | 267.61 | 3,094.5 | -16.6 | -171.4 | -16.6 | 0.00 | 0.00 | |
| 3,200.0 | 3.66 | 267.61 | 3,194.3 | -16.9 | -177.8 | -16.9 | 0.00 | 0.00 | |
| 3,300.0 | 3.66 | 267.61 | 3,294.1 | -17.2 | -184.2 | -17.2 | 0.00 | 0.00 | |
| 3,400.0 | 3.66 | 267.61 | 3,393.9 | -17.4 | -190.6 | -17.4 | 0.00 | 0.00 | |
| 3,500.0 | 3.66 | 267.61 | 3,493.7 | -17.7 | -196.9 | -17.7 | 0.00 | 0.00 | |
| 3,600.0 | 3.66 | 267.61 | 3,593.5 | -18.0 | -203.3 | -18.0 | 0.00 | 0.00 | |
| 3,700.0 | 3.66 | 267.61 | 3,693.3 | -18.2 | -209.7 | -18.2 | 0.00 | 0.00 | |
| 3,800.0 | 3.66 | 267.61 | 3,793.1 | -18.5 | -216.1 | -18.5 | 0.00 | 0.00 | |
| 3,900.0 | 3.66 | 267.61 | 3,892.9 | -18.8 | -222.5 | -18.8 | 0.00 | 0.00 | |
| 4,000.0 | 3.66 | 267.61 | 3,992.7 | -19.0 | -228.9 | -19.0 | 0.00 | 0.00 | |
| 4,100.0 | 3.66 | 267.61 | 4,092.5 | -19.3 | -235.3 | -19.3 | 0.00 | 0.00 | |
| 4,200.0 | 3.66 | 267.61 | 4,192.3 | -19.6 | -241.6 | -19.6 | 0.00 | 0.00 | |
| 4,300.0 | 3.66 | 267.61 | 4,292.1 | -19.8 | -248.0 | -19.8 | 0.00 | 0.00 | |
| 4,400.0 | 3.66 | 267.61 | 4,391.9 | -20.1 | -254.4 | -20.1 | 0.00 | 0.00 | |
| 4,479.3 | 3.66 | 267.61 | 4,471.0 | -20.3 | -259.5 | -20.3 | 0.00 | 0.00 | Sussex |
| 4,500.0 | 3.66 | 267.61 | 4,491.7 | -20.4 | -260.8 | -20.4 | 0.00 | 0.00 | |
| 4,600.0 | 3.66 | 267.61 | 4,591.5 | -20.6 | -267.2 | -20.6 | 0.00 | 0.00 | |
| 4,700.0 | 3.66 | 267.61 | 4,691.3 | -20.9 | -273.6 | -20.9 | 0.00 | 0.00 | |
| 4,768.9 | 3.66 | 267.61 | 4,760.0 | -21.1 | -278.0 | -21.1 | 0.00 | 0.00 | Sussex Marker |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | North Reference: | True |
| Well: | Woolley-Becky 2A-7H-E168 | 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 | 3.66 | 267.61 | 4,791.1 | -21.2 | -280.0 | -21.2 | 0.00 | 0.00 | |
| 4,900.0 | 3.66 | 267.61 | 4,890.9 | -21.4 | -286.3 | -21.4 | 0.00 | 0.00 | |
| 5,000.0 | 3.66 | 267.61 | 4,990.7 | -21.7 | -292.7 | -21.7 | 0.00 | 0.00 | |
| 5,053.4 | 3.66 | 267.61 | 5,044.0 | -21.8 | -296.1 | -21.8 | 0.00 | 0.00 | Shannon |
| 5,100.0 | 3.66 | 267.61 | 5,090.5 | -22.0 | -299.1 | -22.0 | 0.00 | 0.00 | |
| 5,200.0 | 3.66 | 267.61 | 5,190.3 | -22.2 | -305.5 | -22.2 | 0.00 | 0.00 | |
| 5,300.0 | 3.66 | 267.61 | 5,290.0 | -22.5 | -311.9 | -22.5 | 0.00 | 0.00 | |
| 5,400.0 | 3.66 | 267.61 | 5,389.8 | -22.8 | -318.3 | -22.8 | 0.00 | 0.00 | |
| 5,500.0 | 3.66 | 267.61 | 5,489.6 | -23.0 | -324.7 | -23.0 | 0.00 | 0.00 | |
| 5,600.0 | 3.66 | 267.61 | 5,589.4 | -23.3 | -331.0 | -23.3 | 0.00 | 0.00 | |
| 5,700.0 | 3.66 | 267.61 | 5,689.2 | -23.6 | -337.4 | -23.6 | 0.00 | 0.00 | |
| 5,800.0 | 3.66 | 267.61 | 5,789.0 | -23.8 | -343.8 | -23.8 | 0.00 | 0.00 | |
| 5,900.0 | 3.66 | 267.61 | 5,888.8 | -24.1 | -350.2 | -24.1 | 0.00 | 0.00 | |
| 6,000.0 | 3.66 | 267.61 | 5,988.6 | -24.4 | -356.6 | -24.4 | 0.00 | 0.00 | |
| 6,100.0 | 3.66 | 267.61 | 6,088.4 | -24.6 | -363.0 | -24.6 | 0.00 | 0.00 | |
| 6,200.0 | 3.66 | 267.61 | 6,188.2 | -24.9 | -369.4 | -24.9 | 0.00 | 0.00 | |
| 6,300.0 | 3.66 | 267.61 | 6,288.0 | -25.2 | -375.7 | -25.2 | 0.00 | 0.00 | |
| 6,400.0 | 3.66 | 267.61 | 6,387.8 | -25.4 | -382.1 | -25.4 | 0.00 | 0.00 | |
| 6,500.0 | 3.66 | 267.61 | 6,487.6 | -25.7 | -388.5 | -25.7 | 0.00 | 0.00 | |
| 6,512.4 | 3.66 | 267.61 | 6,500.0 | -25.7 | -389.3 | -25.7 | 0.00 | 0.00 | Teepee Buttes (*if present) |
| 6,600.0 | 3.66 | 267.61 | 6,587.4 | -26.0 | -394.9 | -26.0 | 0.00 | 0.00 | |
| 6,700.0 | 3.66 | 267.61 | 6,687.2 | -26.2 | -401.3 | -26.2 | 0.00 | 0.00 | |
| 6,800.0 | 3.66 | 267.61 | 6,787.0 | -26.5 | -407.7 | -26.5 | 0.00 | 0.00 | |
| 6,900.0 | 3.66 | 267.61 | 6,886.8 | -26.8 | -414.1 | -26.8 | 0.00 | 0.00 | |
| 7,000.0 | 3.66 | 267.61 | 6,986.6 | -27.0 | -420.4 | -27.0 | 0.00 | 0.00 | |
| 7,100.0 | 3.66 | 267.61 | 7,086.4 | -27.3 | -426.8 | -27.3 | 0.00 | 0.00 | |
| 7,200.0 | 3.66 | 267.61 | 7,186.2 | -27.6 | -433.2 | -27.6 | 0.00 | 0.00 | |
| 7,258.3 | 3.66 | 267.61 | 7,244.3 | -27.7 | -436.9 | -27.7 | 0.00 | 0.00 | Start build/turn @ 7258' MD |
| 7,300.0 | 5.48 | 317.17 | 7,285.9 | -26.3 | -439.6 | -26.3 | 10.00 | 4.36 | |
| 7,400.0 | 14.54 | 344.71 | 7,384.3 | -10.7 | -446.2 | -10.7 | 10.00 | 9.06 | |
| 7,416.2 | 16.12 | 346.20 | 7,400.0 | -6.5 | -447.3 | -6.5 | 10.00 | 9.70 | Sharon Springs |
| 7,475.5 | 21.93 | 349.85 | 7,456.0 | 12.4 | -451.2 | 12.4 | 10.00 | 9.80 | Niobrara |
| 7,500.0 | 24.34 | 350.86 | 7,478.5 | 21.9 | -452.8 | 21.9 | 10.00 | 9.87 | |
| 7,600.0 | 34.26 | 353.61 | 7,565.6 | 70.3 | -459.2 | 70.3 | 10.00 | 9.91 | |
| 7,611.4 | 35.39 | 353.83 | 7,575.0 | 76.8 | -459.9 | 76.8 | 10.00 | 9.94 | B Chalk |
| 7,640.1 | 38.25 | 354.34 | 7,598.0 | 93.9 | -461.7 | 93.9 | 10.00 | 9.94 | B Marl |
| 7,700.0 | 44.20 | 355.23 | 7,643.0 | 133.2 | -465.3 | 133.2 | 10.00 | 9.95 | |
| 7,776.3 | 51.80 | 356.11 | 7,694.0 | 189.7 | -469.5 | 189.7 | 10.00 | 9.96 | C Chalk |
| 7,800.0 | 54.17 | 356.35 | 7,708.3 | 208.6 | -470.8 | 208.6 | 10.00 | 9.97 | |
| 7,806.4 | 54.81 | 356.41 | 7,712.0 | 213.8 | -471.1 | 213.8 | 10.00 | 9.97 | C Marl |
| 7,900.0 | 64.14 | 357.22 | 7,759.5 | 294.2 | -475.5 | 294.2 | 10.00 | 9.97 | |
| 7,972.7 | 71.40 | 357.77 | 7,787.0 | 361.4 | -478.5 | 361.4 | 10.00 | 9.98 | Ft. Hayes |
| 8,000.0 | 74.12 | 357.96 | 7,795.1 | 387.4 | -479.4 | 387.4 | 10.00 | 9.98 | |
| 8,051.9 | 79.29 | 358.31 | 7,807.0 | 437.8 | -481.1 | 437.8 | 10.00 | 9.98 | Codell |
| 8,100.0 | 84.10 | 358.62 | 7,814.0 | 485.5 | -482.4 | 485.5 | 10.00 | 9.98 | |
| 8,159.2 | 90.00 | 359.00 | 7,817.0 | 544.5 | -483.6 | 544.5 | 10.00 | 9.97 | LP @ 7817' TVD; 90° |
| 8,200.0 | 90.00 | 359.00 | 7,817.0 | 585.3 | -484.3 | 585.3 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 359.00 | 7,817.0 | 685.3 | -486.0 | 685.3 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 359.00 | 7,817.0 | 785.3 | -487.8 | 785.3 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 359.00 | 7,817.0 | 885.3 | -489.5 | 885.3 | 0.00 | 0.00 | |
| 8,600.0 | 90.00 | 359.00 | 7,817.0 | 985.3 | -491.3 | 985.3 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 359.00 | 7,817.0 | 1,085.3 | -493.0 | 1,085.3 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | North Reference: | True |
| Well: | Woolley-Becky 2A-7H-E168 | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 8,800.0 | 90.00 | 359.00 | 7,817.0 | 1,185.2 | -494.8 | 1,185.2 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 359.00 | 7,817.0 | 1,285.2 | -496.5 | 1,285.2 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 359.00 | 7,817.0 | 1,385.2 | -498.3 | 1,385.2 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 359.00 | 7,817.0 | 1,485.2 | -500.0 | 1,485.2 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 359.00 | 7,817.0 | 1,585.2 | -501.8 | 1,585.2 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 359.00 | 7,817.0 | 1,685.2 | -503.5 | 1,685.2 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 359.00 | 7,817.0 | 1,785.1 | -505.2 | 1,785.1 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 359.00 | 7,817.0 | 1,885.1 | -507.0 | 1,885.1 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 359.00 | 7,817.0 | 1,985.1 | -508.7 | 1,985.1 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 359.00 | 7,817.0 | 2,085.1 | -510.5 | 2,085.1 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 359.00 | 7,817.0 | 2,185.1 | -512.2 | 2,185.1 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 359.00 | 7,817.0 | 2,285.1 | -514.0 | 2,285.1 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 359.00 | 7,817.0 | 2,385.1 | -515.7 | 2,385.1 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 359.00 | 7,817.0 | 2,485.0 | -517.5 | 2,485.0 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 359.00 | 7,817.0 | 2,585.0 | -519.2 | 2,585.0 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 359.00 | 7,817.0 | 2,685.0 | -520.9 | 2,685.0 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 359.00 | 7,817.0 | 2,785.0 | -522.7 | 2,785.0 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 359.00 | 7,817.0 | 2,885.0 | -524.4 | 2,885.0 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 359.00 | 7,817.0 | 2,985.0 | -526.2 | 2,985.0 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 359.00 | 7,817.0 | 3,084.9 | -527.9 | 3,084.9 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 359.00 | 7,817.0 | 3,184.9 | -529.7 | 3,184.9 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 359.00 | 7,817.0 | 3,284.9 | -531.4 | 3,284.9 | 0.00 | 0.00 | |
| 11,000.0 | 90.00 | 359.00 | 7,817.0 | 3,384.9 | -533.2 | 3,384.9 | 0.00 | 0.00 | |
| 11,100.0 | 90.00 | 359.00 | 7,817.0 | 3,484.9 | -534.9 | 3,484.9 | 0.00 | 0.00 | |
| 11,200.0 | 90.00 | 359.00 | 7,817.0 | 3,584.9 | -536.7 | 3,584.9 | 0.00 | 0.00 | |
| 11,300.0 | 90.00 | 359.00 | 7,817.0 | 3,684.9 | -538.4 | 3,684.9 | 0.00 | 0.00 | |
| 11,400.0 | 90.00 | 359.00 | 7,817.0 | 3,784.8 | -540.1 | 3,784.8 | 0.00 | 0.00 | |
| 11,500.0 | 90.00 | 359.00 | 7,817.0 | 3,884.8 | -541.9 | 3,884.8 | 0.00 | 0.00 | |
| 11,600.0 | 90.00 | 359.00 | 7,817.0 | 3,984.8 | -543.6 | 3,984.8 | 0.00 | 0.00 | |
| 11,700.0 | 90.00 | 359.00 | 7,817.0 | 4,084.8 | -545.4 | 4,084.8 | 0.00 | 0.00 | |
| 11,800.0 | 90.00 | 359.00 | 7,817.0 | 4,184.8 | -547.1 | 4,184.8 | 0.00 | 0.00 | |
| 11,900.0 | 90.00 | 359.00 | 7,817.0 | 4,284.8 | -548.9 | 4,284.8 | 0.00 | 0.00 | |
| 12,000.0 | 90.00 | 359.00 | 7,817.0 | 4,384.7 | -550.6 | 4,384.7 | 0.00 | 0.00 | |
| 12,100.0 | 90.00 | 359.00 | 7,817.0 | 4,484.7 | -552.4 | 4,484.7 | 0.00 | 0.00 | |
| 12,200.0 | 90.00 | 359.00 | 7,817.0 | 4,584.7 | -554.1 | 4,584.7 | 0.00 | 0.00 | |
| 12,300.0 | 90.00 | 359.00 | 7,817.0 | 4,684.7 | -555.9 | 4,684.7 | 0.00 | 0.00 | |
| 12,400.0 | 90.00 | 359.00 | 7,817.0 | 4,784.7 | -557.6 | 4,784.7 | 0.00 | 0.00 | |
| 12,500.0 | 90.00 | 359.00 | 7,817.0 | 4,884.7 | -559.3 | 4,884.7 | 0.00 | 0.00 | |
| 12,600.0 | 90.00 | 359.00 | 7,817.0 | 4,984.7 | -561.1 | 4,984.7 | 0.00 | 0.00 | |
| 12,700.0 | 90.00 | 359.00 | 7,817.0 | 5,084.6 | -562.8 | 5,084.6 | 0.00 | 0.00 | |
| 12,800.0 | 90.00 | 359.00 | 7,817.0 | 5,184.6 | -564.6 | 5,184.6 | 0.00 | 0.00 | |
| 12,900.0 | 90.00 | 359.00 | 7,817.0 | 5,284.6 | -566.3 | 5,284.6 | 0.00 | 0.00 | |
| 13,000.0 | 90.00 | 359.00 | 7,817.0 | 5,384.6 | -568.1 | 5,384.6 | 0.00 | 0.00 | |
| 13,100.0 | 90.00 | 359.00 | 7,817.0 | 5,484.6 | -569.8 | 5,484.6 | 0.00 | 0.00 | |
| 13,200.0 | 90.00 | 359.00 | 7,817.0 | 5,584.6 | -571.6 | 5,584.6 | 0.00 | 0.00 | |
| 13,300.0 | 90.00 | 359.00 | 7,817.0 | 5,684.6 | -573.3 | 5,684.6 | 0.00 | 0.00 | |
| 13,400.0 | 90.00 | 359.00 | 7,817.0 | 5,784.5 | -575.1 | 5,784.5 | 0.00 | 0.00 | |
| 13,500.0 | 90.00 | 359.00 | 7,817.0 | 5,884.5 | -576.8 | 5,884.5 | 0.00 | 0.00 | |
| 13,600.0 | 90.00 | 359.00 | 7,817.0 | 5,984.5 | -578.5 | 5,984.5 | 0.00 | 0.00 | |
| 13,700.0 | 90.00 | 359.00 | 7,817.0 | 6,084.5 | -580.3 | 6,084.5 | 0.00 | 0.00 | |
| 13,800.0 | 90.00 | 359.00 | 7,817.0 | 6,184.5 | -582.0 | 6,184.5 | 0.00 | 0.00 | |
| 13,900.0 | 90.00 | 359.00 | 7,817.0 | 6,284.5 | -583.8 | 6,284.5 | 0.00 | 0.00 | |

Cathedral Energy Services

Planning Report

| | | | |
|------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | North Reference: | True |
| Well: | Woolley-Becky 2A-7H-E168 | 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 |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| 14,000.0 | 90.00 | 359.00 | 7,817.0 | 6,384.4 | -585.5 | 6,384.4 | 0.00 | 0.00 | |
| 14,100.0 | 90.00 | 359.00 | 7,817.0 | 6,484.4 | -587.3 | 6,484.4 | 0.00 | 0.00 | |
| 14,200.0 | 90.00 | 359.00 | 7,817.0 | 6,584.4 | -589.0 | 6,584.4 | 0.00 | 0.00 | |
| 14,300.0 | 90.00 | 359.00 | 7,817.0 | 6,684.4 | -590.8 | 6,684.4 | 0.00 | 0.00 | |
| 14,400.0 | 90.00 | 359.00 | 7,817.0 | 6,784.4 | -592.5 | 6,784.4 | 0.00 | 0.00 | |
| 14,500.0 | 90.00 | 359.00 | 7,817.0 | 6,884.4 | -594.2 | 6,884.4 | 0.00 | 0.00 | |
| 14,600.0 | 90.00 | 359.00 | 7,817.0 | 6,984.4 | -596.0 | 6,984.4 | 0.00 | 0.00 | |
| 14,700.0 | 90.00 | 359.00 | 7,817.0 | 7,084.3 | -597.7 | 7,084.3 | 0.00 | 0.00 | |
| 14,759.2 | 90.00 | 359.00 | 7,817.0 | 7,143.5 | -598.8 | 7,143.5 | 0.00 | 0.00 | TD at 14759.2 |

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 | | | | | | | | | |
| Woolley-Becky 2A-7H-E | 0.00 | 0.00 | 7,817.0 | 7,143.5 | -598.8 | 1,274,591.21 | 3,124,460.39 | 40.086280 | -105.055200 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |

Formations

| Measured Depth (ft) | Vertical Depth (ft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|---------------------|---------------------|-----------------------------|-----------|---------|-------------------|
| 420.1 | 420.0 | Fox Hills - BASE | | | |
| 4,479.3 | 4,471.0 | Sussex | | | |
| 4,768.9 | 4,760.0 | Sussex Marker | | | |
| 5,053.4 | 5,044.0 | Shannon | | | |
| 6,512.4 | 6,500.0 | Teepee Buttes (*if present) | | | |
| 7,416.2 | 7,400.0 | Sharon Springs | | | |
| 7,475.5 | 7,456.0 | Niobrara | | | |
| 7,611.4 | 7,575.0 | B Chalk | | | |
| 7,640.1 | 7,598.0 | B Marl | | | |
| 7,776.3 | 7,694.0 | C Chalk | | | |
| 7,806.4 | 7,712.0 | C Marl | | | |
| 7,972.7 | 7,787.0 | Ft. Hayes | | | |
| 8,051.9 | 7,807.0 | Codell | | | |

Plan Annotations

| Measured Depth (ft) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
|---------------------|---------------------|------------|------------|-----------------------------|
| 200.0 | 200.0 | 0.0 | 0.0 | KOP @ 200' |
| 600.0 | 599.7 | -7.0 | -12.1 | EOB; Inc=4° |
| 7,258.3 | 7,244.3 | -10.5 | -23.6 | Start build/turn @ 7258' MD |
| 8,159.2 | 7,817.0 | -27.7 | -436.9 | LP @ 7817' TVD; 90° |
| 14,759.2 | 7,817.0 | 544.5 | -483.6 | TD at 14759.2 |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S7-T1N-R68W (Woolley-Sosa/Becky)

Woolley-Becky 2A-7H-E168

Hz

Plan #1

Anticollision Report

28 June, 2013

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 | 6/28/2013 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description |
| 0.0 | 14,759.2 | Plan #1 (Hz) | Geolink MWD | Geolink MWD |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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) | | |
| S7-T1N-R68W (Woolley-Sosa/Becky) | | | | | | |
| BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVE | 11,245.5 | 8,033.1 | 94.5 | 13.8 | 1.170 | Level 2, CC, ES, SF |
| BEARDEN 1 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | Out of range |
| BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVEY | 11,903.9 | 7,909.7 | 473.2 | 377.8 | 4.962 | CC, ES, SF |
| BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVEY | 10,579.0 | 7,953.2 | 416.5 | 342.4 | 5.621 | CC, ES |
| BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVEY | 10,600.0 | 7,953.5 | 417.0 | 342.6 | 5.601 | SF |
| BEARDEN 23-6 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| BEARDEN 24-6 (EXISTING) - ENCANA WELL - PLAN ON | | | | | | Out of range |
| BEARDEN 2-4-6 (EXISTING) - ENCANA WELL - PLAN O | | | | | | Out of range |
| BEARDEN 2-8-6 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| BECKY 1 (EXISTING) - FOUNDATION WELL - NO SURV | | | | | | Out of range |
| BECKY 2-6 (EXISTING) - NOBLE WELL - NO SURVEYS | | | | | | Out of range |
| BECKY 4 (EXISTING) - MARTIN EXP WELL - NO SURVE | | | | | | Out of range |
| BECKY 5-6 (EXISTING) - FOUNDATION WELL - NO SUR | | | | | | Out of range |
| BECKY 7-6 (EXISTING) - NOBLE WELL - NO SURVEYS | | | | | | Out of range |
| BILLINGS 21-7 (EXISTING) - KPK WELL - SURVEYS | | | | | | Out of range |
| Sosa 11-18 - DD - DD | | | | | | Out of range |
| Sosa 11-18 - DD - Plan #1 | | | | | | Out of range |
| Sosa 12-18 - DD - DD | | | | | | Out of range |
| Sosa 12-18 - DD - Plan #3 | | | | | | Out of range |
| Sosa 21-18 - DD (Gyro) - DD | | | | | | Out of range |
| Sosa 21-18 - DD (MWD) - DD | | | | | | Out of range |
| Sosa 21-18 - DD (MWD) - Plan #2 | | | | | | Out of range |
| Sosa 22-18 - DD - DD | | | | | | Out of range |
| Sosa 22-18 - DD - Plan #2 | | | | | | Out of range |
| Sosa A #1 (Existing) - DD - DD | | | | | | Out of range |
| THOMAS 14-7 (EXISTING) - EXISTING - NO SURVEY | | | | | | Out of range |
| THOMAS 24-7 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | Out of range |
| THOMAS 24-7 (Existing) - Existing - NO SURVEYS | | | | | | Out of range |
| THOMAS 2-8-7 (EXISTING) - ENCANA WELL - SURVEY | | | | | | Out of range |
| THOMAS 33-7 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | Out of range |
| Thomas 7-12 (Existing) - Existing - NO SURVEYS | | | | | | Out of range |
| Thomas 7-14 (Existing) - Existing - NO SURVEYS | | | | | | Out of range |
| THOMAS E UNIT 1 (EXISTING) - Existing - NO SURVEY | | | | | | Out of range |
| THOMAS K UNIT 1 (EXISTING) - EXISTING - NO SURVE | | | | | | Out of range |
| WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEY | 9,336.2 | 8,014.3 | 335.3 | 286.7 | 6.894 | CC, ES |
| WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEY | 9,400.0 | 8,019.4 | 341.3 | 291.6 | 6.865 | SF |
| WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR | 3,259.6 | 3,328.8 | 215.8 | 203.5 | 17.515 | CC |
| WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR | 3,500.0 | 3,568.7 | 216.3 | 203.1 | 16.356 | ES |
| WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SUR | 7,800.0 | 7,783.3 | 280.3 | 252.6 | 10.087 | SF |
| WOOLLEY 21-7 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| WOOLLEY 22-7 (EXISTING) - ENCANA WELL - SURVEY | | | | | | Out of range |
| WOOLLEY 2-4-7 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| WOOLLEY 4-0-7 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| WOOLLEY F UNIT 1 (EXISTING) - ENCANA WELL - NO | | | | | | Out of range |
| Woolley-Becky 2B-7H-E168 - Hz - Plan #1 | 200.0 | 200.0 | 9.2 | 8.6 | 15.040 | CC, ES |
| Woolley-Becky 2B-7H-E168 - Hz - Plan #1 | 14,759.2 | 14,512.3 | 441.0 | 222.2 | 2.016 | SF |
| Woolley-Becky 2C-7H-E168 - Hz - Plan #1 | 200.0 | 201.0 | 8.4 | 7.8 | 13.706 | CC, ES |
| Woolley-Becky 2C-7H-E168 - Hz - Plan #1 | 400.0 | 401.0 | 11.6 | 10.2 | 8.810 | SF |
| Woolley-Becky 2D-7H-E168 - Hz - Plan #1 | 200.0 | 201.0 | 15.8 | 15.2 | 25.754 | CC, ES |
| Woolley-Becky 2D-7H-E168 - Hz - Plan #1 | 500.0 | 500.9 | 23.6 | 22.0 | 14.245 | SF |
| Woolley-Becky 2E-7H-E168 - Hz - Plan #1 | 200.0 | 201.0 | 30.8 | 30.2 | 50.255 | CC, ES |
| Woolley-Becky 2E-7H-E168 - Hz - Plan #1 | 500.0 | 500.0 | 38.7 | 37.0 | 23.287 | SF |
| Woolley-Becky 2F-7H-E168 - Hz - Plan #1 | 200.0 | 202.0 | 34.4 | 33.8 | 55.939 | CC, ES |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 Between Centres (ft) | | Separation Factor | Warning |
|--|--|-------------------------------------|--|-------|----------------------|---------|
| | | | | | | |
| S7-T1N-R68W (Woolley-Sosa/Becky) | | | | | | |
| Woolley-Becky 2F-7H-E168 - Hz - Plan #1 | 500.0 | 500.0 | 45.3 | 43.7 | 27.323 | SF |
| Woolley-Becky 2G-7H-E168 - Hz - Plan #1 | 200.0 | 202.0 | 39.2 | 38.6 | 63.779 | CC, ES |
| Woolley-Becky 2G-7H-E168 - Hz - Plan #1 | 600.0 | 598.2 | 62.0 | 60.0 | 30.825 | SF |
| Woolley-Becky 2H-7H-E168 - Hz - Plan #1 | 166.0 | 168.0 | 45.4 | 44.9 | 91.540 | CC |
| Woolley-Becky 2H-7H-E168 - Hz - Plan #1 | 200.0 | 202.0 | 45.4 | 44.8 | 73.851 | ES |
| Woolley-Becky 2H-7H-E168 - Hz - Plan #1 | 600.0 | 597.1 | 72.2 | 70.2 | 36.010 | SF |
| Woolley-Sosa 2A-7H-E168 - Hz - Plan #1 | 530.9 | 527.0 | 65.7 | 63.9 | 36.874 | CC |
| Woolley-Sosa 2A-7H-E168 - Hz - Plan #1 | 600.0 | 595.2 | 65.9 | 63.9 | 32.386 | ES |
| Woolley-Sosa 2A-7H-E168 - Hz - Plan #1 | 7,828.8 | 7,896.3 | 140.6 | 112.0 | 4.917 | SF |
| Woolley-Sosa 2B-7H-E168 - HZ - Plan #1 | 668.8 | 665.1 | 55.0 | 52.7 | 23.926 | CC |
| Woolley-Sosa 2B-7H-E168 - HZ - Plan #1 | 700.0 | 696.0 | 55.1 | 52.7 | 22.797 | ES |
| Woolley-Sosa 2B-7H-E168 - HZ - Plan #1 | 7,800.0 | 7,903.3 | 231.4 | 203.1 | 8.169 | SF |
| Woolley-Sosa 2C-7H-E168 - HZ - Plan #1 | 849.3 | 846.4 | 36.2 | 33.2 | 12.051 | CC, ES |
| Woolley-Sosa 2C-7H-E168 - HZ - Plan #1 | 900.0 | 896.6 | 36.8 | 33.6 | 11.487 | SF |
| Woolley-Sosa 2D-7H-E168 - HZ - Plan #1 | 886.8 | 884.4 | 29.5 | 26.3 | 9.382 | CC |
| Woolley-Sosa 2D-7H-E168 - HZ - Plan #1 | 900.0 | 897.4 | 29.5 | 26.3 | 9.245 | ES, SF |
| Woolley-Sosa 2E-7H-E168 - HZ - Plan #1 | 984.9 | 982.8 | 10.3 | 6.8 | 2.946 | CC |
| Woolley-Sosa 2E-7H-E168 - HZ - Plan #1 | 1,000.0 | 997.8 | 10.3 | 6.8 | 2.918 | ES, SF |
| Woolley-Sosa 2F-7H-E168 - HZ - Plan #1 | 635.2 | 633.9 | 20.0 | 17.8 | 9.072 | CC, ES |
| Woolley-Sosa 2F-7H-E168 - HZ - Plan #1 | 700.0 | 698.2 | 21.4 | 18.9 | 8.743 | SF |
| Woolley-Sosa 2G-7H-E168 - HZ - Plan #1 | 574.7 | 573.7 | 11.1 | 9.1 | 5.572 | CC, ES |
| Woolley-Sosa 2G-7H-E168 - HZ - Plan #1 | 600.0 | 598.8 | 11.6 | 9.5 | 5.567 | SF |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 | | S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 0-6-6 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | Offset Site Error: | | 0.0 ft | |
|---------------------------------|---------------------------|---|---------------------------|-------------------|----------------|-----------------------------|----------------------------------|-------------------------|----------------------------|-----------------------------|------------------------------|----------------------|---------------------|---------|--|
| Survey Program: | | 46-Geolink MWD | | | | | | | | | | Offset Well Error: | | 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning | |
| Measured Depth Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore +N/-S (ft) | Centre +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | | |
| 10,800.0 | 7,817.0 | 8,026.9 | 7,782.6 | 59.8 | 31.1 | -86.72 | 3,628.6 | -632.0 | 455.4 | 382.3 | 73.15 | 6.226 | | | |
| 10,900.0 | 7,817.0 | 8,028.2 | 7,784.0 | 61.5 | 31.1 | -87.55 | 3,628.7 | -632.0 | 358.2 | 283.3 | 74.88 | 4.784 | | | |
| 11,000.0 | 7,817.0 | 8,029.6 | 7,785.3 | 63.2 | 31.1 | -88.39 | 3,628.7 | -632.0 | 263.1 | 186.5 | 76.60 | 3.434 | | | |
| 11,100.0 | 7,817.0 | 8,031.0 | 7,786.7 | 64.9 | 31.1 | -89.23 | 3,628.7 | -632.0 | 173.5 | 95.2 | 78.31 | 2.216 | | | |
| 11,200.0 | 7,817.0 | 8,032.4 | 7,788.1 | 66.6 | 31.1 | -90.09 | 3,628.7 | -632.0 | 104.9 | 24.9 | 80.01 | 1.311 | Level 3 | | |
| 11,245.5 | 7,817.0 | 8,033.1 | 7,788.8 | 67.4 | 31.1 | -90.48 | 3,628.7 | -632.0 | 94.5 | 13.8 | 80.78 | 1.170 | Level 2, CC, ES, SF | | |
| 11,300.0 | 7,817.0 | 8,033.8 | 7,789.6 | 68.3 | 31.1 | -90.95 | 3,628.7 | -632.0 | 109.1 | 27.4 | 81.69 | 1.336 | Level 3 | | |
| 11,400.0 | 7,817.0 | 8,035.3 | 7,791.0 | 70.0 | 31.1 | -91.82 | 3,628.8 | -631.9 | 181.1 | 97.7 | 83.36 | 2.172 | | | |
| 11,500.0 | 7,817.0 | 8,036.7 | 7,792.4 | 71.8 | 31.1 | -92.69 | 3,628.8 | -631.9 | 271.4 | 186.4 | 85.01 | 3.193 | | | |
| 11,600.0 | 7,817.0 | 8,038.2 | 7,793.9 | 73.5 | 31.1 | -93.57 | 3,628.8 | -631.9 | 366.8 | 280.2 | 86.64 | 4.234 | | | |
| 11,700.0 | 7,817.0 | 8,039.7 | 7,795.4 | 75.2 | 31.2 | -94.46 | 3,628.8 | -631.9 | 464.2 | 375.9 | 88.25 | 5.260 | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 13-6 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|-------|-----------------|------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 765-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 +N/-S | +E/-W | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | | | | |
| | | | | | | | | | | | | | | |
| 11,800.0 | 7,817.0 | 7,909.6 | 7,791.5 | 76.9 | 24.5 | 90.30 | 4,296.9 | -75.9 | 484.4 | 390.9 | 93.56 | 5.178 | | |
| 11,900.0 | 7,817.0 | 7,909.7 | 7,791.6 | 78.6 | 24.5 | 90.31 | 4,296.9 | -75.9 | 473.2 | 377.9 | 95.29 | 4.966 | | |
| 11,903.9 | 7,817.0 | 7,909.7 | 7,791.6 | 78.7 | 24.5 | 90.31 | 4,296.9 | -75.9 | 473.2 | 377.8 | 95.36 | 4.962 CC, ES, SF | | |
| 12,000.0 | 7,817.0 | 7,909.8 | 7,791.6 | 80.3 | 24.5 | 90.32 | 4,296.9 | -75.9 | 482.8 | 385.8 | 97.02 | 4.977 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - BEARDEN 14-6 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|--------|-----------------|------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 797-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 +N/-S | +E/-W | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | | | | |
| 10,400.0 | 7,817.0 | 7,950.9 | 7,785.3 | 53.1 | 25.9 | 89.50 | 2,971.3 | -109.4 | 453.4 | 382.3 | 71.04 | 6.382 | | |
| 10,500.0 | 7,817.0 | 7,952.2 | 7,786.6 | 54.8 | 25.9 | 89.67 | 2,971.3 | -109.4 | 423.9 | 351.2 | 72.74 | 5.828 | | |
| 10,579.0 | 7,817.0 | 7,953.2 | 7,787.6 | 56.1 | 25.9 | 89.81 | 2,971.3 | -109.4 | 416.5 | 342.4 | 74.10 | 5.621 CC, ES | | |
| 10,600.0 | 7,817.0 | 7,953.5 | 7,787.9 | 56.4 | 25.9 | 89.85 | 2,971.3 | -109.4 | 417.0 | 342.6 | 74.45 | 5.601 SF | | |
| 10,700.0 | 7,817.0 | 7,954.8 | 7,789.2 | 58.1 | 25.9 | 90.02 | 2,971.3 | -109.4 | 433.7 | 357.6 | 76.17 | 5.694 | | |
| 10,800.0 | 7,817.0 | 7,956.0 | 7,790.4 | 59.8 | 25.9 | 90.20 | 2,971.3 | -109.4 | 471.5 | 393.6 | 77.88 | 6.054 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 11-7 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|
| Survey Program: 132-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 | |
| 9,000.0 | 7,817.0 | 7,989.4 | 7,828.8 | 30.5 | 26.4 | 85.35 | 1,725.3 | -169.0 | 474.2 | 431.2 | 42.98 | 11.033 | |
| 9,100.0 | 7,817.0 | 7,996.5 | 7,835.9 | 32.0 | 26.4 | 86.56 | 1,725.9 | -169.0 | 409.8 | 365.1 | 44.66 | 9.176 | |
| 9,200.0 | 7,817.0 | 8,003.9 | 7,843.2 | 33.5 | 26.4 | 87.82 | 1,726.4 | -168.9 | 361.8 | 315.5 | 46.34 | 7.807 | |
| 9,300.0 | 7,817.0 | 8,011.5 | 7,850.8 | 35.1 | 26.4 | 89.12 | 1,727.0 | -168.9 | 337.3 | 289.2 | 48.03 | 7.022 | |
| 9,336.2 | 7,817.0 | 8,014.3 | 7,853.6 | 35.7 | 26.4 | 89.60 | 1,727.2 | -168.9 | 335.3 | 286.7 | 48.64 | 6.894 CC, ES | |
| 9,400.0 | 7,817.0 | 8,019.4 | 7,858.7 | 36.7 | 26.4 | 90.46 | 1,727.7 | -168.8 | 341.3 | 291.6 | 49.71 | 6.865 SF | |
| 9,500.0 | 7,817.0 | 8,027.6 | 7,866.9 | 38.3 | 26.4 | 91.86 | 1,728.3 | -168.8 | 373.0 | 321.6 | 51.39 | 7.258 | |
| 9,600.0 | 7,817.0 | 8,036.1 | 7,875.3 | 39.9 | 26.4 | 93.30 | 1,729.0 | -168.7 | 426.1 | 373.1 | 53.04 | 8.033 | |
| 9,700.0 | 7,817.0 | 8,044.9 | 7,884.1 | 41.5 | 26.4 | 94.79 | 1,729.8 | -168.7 | 493.8 | 439.2 | 54.67 | 9.033 | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 8325-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 | 75.0 | 75.0 | 0.0 | 0.1 | -43.83 | 198.5 | -190.6 | 275.2 | | | | | |
| 100.0 | 100.0 | 175.0 | 175.0 | 0.1 | 0.3 | -43.83 | 198.5 | -190.6 | 275.2 | 274.8 | 0.44 | 630.451 | | |
| 200.0 | 200.0 | 275.0 | 275.0 | 0.3 | 0.5 | -43.83 | 198.5 | -190.6 | 275.2 | 274.4 | 0.79 | 350.322 | | |
| 300.0 | 300.0 | 375.0 | 375.0 | 0.5 | 0.7 | 76.35 | 198.5 | -190.6 | 275.0 | 273.9 | 1.14 | 242.175 | | |
| 400.0 | 400.0 | 475.0 | 475.0 | 0.7 | 0.8 | 76.88 | 198.5 | -190.6 | 274.4 | 272.9 | 1.49 | 184.202 | | |
| 500.0 | 499.9 | 574.9 | 574.9 | 0.8 | 1.0 | 77.78 | 198.5 | -190.6 | 273.4 | 271.6 | 1.85 | 147.683 | | |
| 600.0 | 599.7 | 674.7 | 674.7 | 1.0 | 1.2 | 79.05 | 198.5 | -190.6 | 272.2 | 270.0 | 2.22 | 122.350 | | |
| 700.0 | 699.5 | 774.5 | 774.5 | 1.2 | 1.4 | 66.13 | 198.5 | -190.6 | 270.2 | 267.6 | 2.60 | 104.067 | | |
| 800.0 | 799.2 | 874.2 | 874.2 | 1.4 | 1.5 | 53.98 | 198.5 | -190.6 | 267.0 | 264.0 | 2.97 | 90.017 | | |
| 900.0 | 899.0 | 974.0 | 974.0 | 1.7 | 1.7 | 55.11 | 198.5 | -190.6 | 263.2 | 259.9 | 3.34 | 78.898 | | |
| 1,000.0 | 998.8 | 1,073.8 | 1,073.8 | 1.9 | 1.9 | 56.26 | 198.5 | -190.6 | 259.6 | 255.9 | 3.71 | 70.008 | | |
| 1,100.0 | 1,098.6 | 1,173.6 | 1,173.6 | 2.1 | 2.0 | 57.45 | 198.5 | -190.6 | 256.1 | 252.1 | 4.08 | 62.746 | | |
| 1,200.0 | 1,198.4 | 1,273.4 | 1,273.4 | 2.3 | 2.2 | 58.67 | 198.5 | -190.6 | 252.8 | 248.3 | 4.46 | 56.711 | | |
| 1,300.0 | 1,298.2 | 1,373.2 | 1,373.2 | 2.5 | 2.4 | 59.92 | 198.5 | -190.6 | 249.5 | 244.7 | 4.83 | 51.624 | | |
| 1,400.0 | 1,398.0 | 1,473.0 | 1,473.0 | 2.7 | 2.6 | 61.20 | 198.5 | -190.6 | 246.3 | 241.1 | 5.21 | 47.285 | | |
| 1,500.0 | 1,497.8 | 1,572.8 | 1,572.8 | 2.9 | 2.7 | 62.52 | 198.5 | -190.6 | 243.3 | 237.7 | 5.59 | 43.544 | | |
| 1,600.0 | 1,597.6 | 1,672.6 | 1,672.6 | 3.1 | 2.9 | 63.87 | 198.5 | -190.6 | 240.4 | 234.5 | 5.97 | 40.293 | | |
| 1,700.0 | 1,697.4 | 1,772.4 | 1,772.4 | 3.3 | 3.1 | 65.25 | 198.5 | -190.6 | 237.7 | 231.3 | 6.35 | 37.447 | | |
| 1,800.0 | 1,797.2 | 1,872.2 | 1,872.2 | 3.5 | 3.3 | 66.66 | 198.5 | -190.6 | 235.1 | 228.3 | 6.73 | 34.938 | | |
| 1,900.0 | 1,897.0 | 1,972.0 | 1,972.0 | 3.7 | 3.4 | 68.11 | 198.5 | -190.6 | 232.6 | 225.5 | 7.11 | 32.714 | | |
| 2,000.0 | 1,996.8 | 2,071.8 | 2,071.8 | 3.9 | 3.6 | 69.58 | 198.5 | -190.6 | 230.3 | 222.8 | 7.49 | 30.735 | | |
| 2,100.0 | 2,096.6 | 2,171.6 | 2,171.6 | 4.1 | 3.8 | 71.08 | 198.5 | -190.6 | 228.1 | 220.3 | 7.88 | 28.965 | | |
| 2,200.0 | 2,196.4 | 2,271.4 | 2,271.4 | 4.3 | 4.0 | 72.61 | 198.5 | -190.6 | 226.2 | 217.9 | 8.26 | 27.377 | | |
| 2,300.0 | 2,296.2 | 2,371.2 | 2,371.2 | 4.5 | 4.1 | 74.17 | 198.5 | -190.6 | 224.3 | 215.7 | 8.64 | 25.949 | | |
| 2,400.0 | 2,396.0 | 2,471.0 | 2,471.0 | 4.7 | 4.3 | 75.74 | 198.5 | -190.6 | 222.7 | 213.6 | 9.03 | 24.659 | | |
| 2,500.0 | 2,495.8 | 2,570.8 | 2,570.8 | 4.9 | 4.5 | 77.35 | 198.5 | -190.6 | 221.2 | 211.8 | 9.41 | 23.494 | | |
| 2,600.0 | 2,595.6 | 2,670.6 | 2,670.6 | 5.1 | 4.7 | 78.97 | 198.5 | -190.6 | 219.9 | 210.1 | 9.80 | 22.438 | | |
| 2,700.0 | 2,695.4 | 2,770.4 | 2,770.4 | 5.4 | 4.8 | 80.61 | 198.5 | -190.6 | 218.7 | 208.5 | 10.18 | 21.479 | | |
| 2,800.0 | 2,795.2 | 2,870.2 | 2,870.2 | 5.6 | 5.0 | 82.26 | 198.5 | -190.6 | 217.8 | 207.2 | 10.57 | 20.609 | | |
| 2,900.0 | 2,895.0 | 2,970.0 | 2,970.0 | 5.8 | 5.2 | 83.93 | 198.5 | -190.6 | 217.0 | 206.0 | 10.95 | 19.818 | | |
| 3,000.0 | 2,994.7 | 3,069.7 | 3,069.7 | 6.0 | 5.4 | 85.61 | 198.5 | -190.6 | 216.4 | 205.1 | 11.33 | 19.097 | | |
| 3,100.0 | 3,094.5 | 3,169.5 | 3,169.5 | 6.2 | 5.5 | 87.30 | 198.5 | -190.6 | 216.0 | 204.3 | 11.71 | 18.442 | | |
| 3,200.0 | 3,194.3 | 3,269.3 | 3,269.3 | 6.4 | 5.7 | 88.99 | 198.5 | -190.6 | 215.8 | 203.7 | 12.09 | 17.845 | | |
| 3,259.6 | 3,253.8 | 3,328.8 | 3,328.8 | 6.5 | 5.8 | 90.00 | 198.5 | -190.6 | 215.8 | 203.5 | 12.32 | 17.515 CC | | |
| 3,300.0 | 3,294.1 | 3,369.1 | 3,369.1 | 6.6 | 5.9 | 90.68 | 198.5 | -190.6 | 215.8 | 203.3 | 12.47 | 17.301 | | |
| 3,400.0 | 3,393.9 | 3,468.9 | 3,468.9 | 6.8 | 6.1 | 92.38 | 198.5 | -190.6 | 216.0 | 203.1 | 12.85 | 16.807 | | |
| 3,500.0 | 3,493.7 | 3,568.7 | 3,568.7 | 7.0 | 6.2 | 94.06 | 198.5 | -190.6 | 216.3 | 203.1 | 13.23 | 16.356 ES | | |
| 3,600.0 | 3,593.5 | 3,668.5 | 3,668.5 | 7.2 | 6.4 | 95.75 | 198.5 | -190.6 | 216.9 | 203.3 | 13.60 | 15.947 | | |
| 3,700.0 | 3,693.3 | 3,768.3 | 3,768.3 | 7.4 | 6.6 | 97.42 | 198.5 | -190.6 | 217.6 | 203.6 | 13.97 | 15.574 | | |
| 3,800.0 | 3,793.1 | 3,868.1 | 3,868.1 | 7.6 | 6.8 | 99.08 | 198.5 | -190.6 | 218.5 | 204.2 | 14.34 | 15.236 | | |
| 3,900.0 | 3,892.9 | 3,967.9 | 3,967.9 | 7.8 | 6.9 | 100.72 | 198.5 | -190.6 | 219.6 | 204.9 | 14.71 | 14.930 | | |
| 4,000.0 | 3,992.7 | 4,067.7 | 4,067.7 | 8.0 | 7.1 | 102.34 | 198.5 | -190.6 | 220.9 | 205.8 | 15.08 | 14.652 | | |
| 4,100.0 | 4,092.5 | 4,167.5 | 4,167.5 | 8.3 | 7.3 | 103.95 | 198.5 | -190.6 | 222.4 | 206.9 | 15.44 | 14.400 | | |
| 4,200.0 | 4,192.3 | 4,267.3 | 4,267.3 | 8.5 | 7.4 | 105.53 | 198.5 | -190.6 | 224.0 | 208.2 | 15.80 | 14.173 | | |
| 4,300.0 | 4,292.1 | 4,367.1 | 4,367.1 | 8.7 | 7.6 | 107.09 | 198.5 | -190.6 | 225.8 | 209.6 | 16.16 | 13.968 | | |
| 4,400.0 | 4,391.9 | 4,466.9 | 4,466.9 | 8.9 | 7.8 | 108.63 | 198.5 | -190.6 | 227.8 | 211.2 | 16.52 | 13.784 | | |
| 4,500.0 | 4,491.7 | 4,566.7 | 4,566.7 | 9.1 | 8.0 | 110.14 | 198.5 | -190.6 | 229.9 | 213.0 | 16.88 | 13.619 | | |
| 4,600.0 | 4,591.5 | 4,666.5 | 4,666.5 | 9.3 | 8.1 | 111.61 | 198.5 | -190.6 | 232.2 | 214.9 | 17.23 | 13.471 | | |
| 4,700.0 | 4,691.3 | 4,766.3 | 4,766.3 | 9.5 | 8.3 | 113.06 | 198.5 | -190.6 | 234.6 | 217.0 | 17.59 | 13.339 | | |
| 4,800.0 | 4,791.1 | 4,866.1 | 4,866.1 | 9.7 | 8.5 | 114.48 | 198.5 | -190.6 | 237.2 | 219.2 | 17.94 | 13.222 | | |
| 4,900.0 | 4,890.9 | 4,965.9 | 4,965.9 | 9.9 | 8.7 | 115.87 | 198.5 | -190.6 | 239.9 | 221.6 | 18.29 | 13.118 | | |
| 5,000.0 | 4,990.7 | 5,065.7 | 5,065.7 | 10.1 | 8.8 | 117.22 | 198.5 | -190.6 | 242.8 | 224.1 | 18.64 | 13.027 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - WOOLLEY 12-7 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|-----------|--------------------|--------|
| Survey Program: 8325-Geolink 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) | | | | | | |
| 5,100.0 | 5,090.5 | 5,165.5 | 5,165.5 | 10.3 | 9.0 | 118.55 | 198.5 | -190.6 | 245.8 | 226.8 | 18.98 | 12.946 | | |
| 5,200.0 | 5,190.3 | 5,265.3 | 5,265.3 | 10.5 | 9.2 | 119.84 | 198.5 | -190.6 | 248.9 | 229.5 | 19.33 | 12.876 | | |
| 5,300.0 | 5,290.0 | 5,365.0 | 5,365.0 | 10.7 | 9.4 | 121.09 | 198.5 | -190.6 | 252.1 | 232.4 | 19.67 | 12.816 | | |
| 5,400.0 | 5,389.8 | 5,464.8 | 5,464.8 | 10.9 | 9.5 | 122.32 | 198.5 | -190.6 | 255.5 | 235.5 | 20.02 | 12.764 | | |
| 5,500.0 | 5,489.6 | 5,564.6 | 5,564.6 | 11.2 | 9.7 | 123.51 | 198.5 | -190.6 | 259.0 | 238.6 | 20.36 | 12.721 | | |
| 5,600.0 | 5,589.4 | 5,664.4 | 5,664.4 | 11.4 | 9.9 | 124.67 | 198.5 | -190.6 | 262.6 | 241.9 | 20.70 | 12.684 | | |
| 5,700.0 | 5,689.2 | 5,764.2 | 5,764.2 | 11.6 | 10.1 | 125.80 | 198.5 | -190.6 | 266.2 | 245.2 | 21.04 | 12.655 | | |
| 5,800.0 | 5,789.0 | 5,864.0 | 5,864.0 | 11.8 | 10.2 | 126.90 | 198.5 | -190.6 | 270.0 | 248.7 | 21.38 | 12.631 | | |
| 5,900.0 | 5,888.8 | 5,963.8 | 5,963.8 | 12.0 | 10.4 | 127.97 | 198.5 | -190.6 | 273.9 | 252.2 | 21.72 | 12.613 | | |
| 6,000.0 | 5,988.6 | 6,063.6 | 6,063.6 | 12.2 | 10.6 | 129.01 | 198.5 | -190.6 | 277.9 | 255.9 | 22.06 | 12.600 | | |
| 6,100.0 | 6,088.4 | 6,163.4 | 6,163.4 | 12.4 | 10.8 | 130.02 | 198.5 | -190.6 | 282.0 | 259.6 | 22.39 | 12.592 | | |
| 6,200.0 | 6,188.2 | 6,263.2 | 6,263.2 | 12.6 | 10.9 | 130.99 | 198.5 | -190.6 | 286.1 | 263.4 | 22.73 | 12.587 | | |
| 6,300.0 | 6,288.0 | 6,363.0 | 6,363.0 | 12.8 | 11.1 | 131.95 | 198.5 | -190.6 | 290.4 | 267.3 | 23.07 | 12.587 | | |
| 6,400.0 | 6,387.8 | 6,462.8 | 6,462.8 | 13.0 | 11.3 | 132.87 | 198.5 | -190.6 | 294.7 | 271.3 | 23.41 | 12.590 | | |
| 6,500.0 | 6,487.6 | 6,562.6 | 6,562.6 | 13.2 | 11.5 | 133.77 | 198.5 | -190.6 | 299.1 | 275.3 | 23.74 | 12.597 | | |
| 6,600.0 | 6,587.4 | 6,662.4 | 6,662.4 | 13.4 | 11.6 | 134.64 | 198.5 | -190.6 | 303.5 | 279.5 | 24.08 | 12.606 | | |
| 6,700.0 | 6,687.2 | 6,762.2 | 6,762.2 | 13.6 | 11.8 | 135.48 | 198.5 | -190.6 | 308.1 | 283.7 | 24.42 | 12.618 | | |
| 6,800.0 | 6,787.0 | 6,862.0 | 6,862.0 | 13.8 | 12.0 | 136.30 | 198.5 | -190.6 | 312.7 | 287.9 | 24.75 | 12.632 | | |
| 6,900.0 | 6,886.8 | 6,961.8 | 6,961.8 | 14.1 | 12.2 | 137.10 | 198.5 | -190.6 | 317.3 | 292.2 | 25.09 | 12.648 | | |
| 7,000.0 | 6,986.6 | 7,061.6 | 7,061.6 | 14.3 | 12.3 | 137.87 | 198.5 | -190.6 | 322.0 | 296.6 | 25.42 | 12.666 | | |
| 7,100.0 | 7,086.4 | 7,161.4 | 7,161.4 | 14.5 | 12.5 | 138.62 | 198.5 | -190.6 | 326.8 | 301.0 | 25.76 | 12.686 | | |
| 7,200.0 | 7,186.2 | 7,261.2 | 7,261.2 | 14.7 | 12.7 | 139.35 | 198.5 | -190.6 | 331.6 | 305.5 | 26.10 | 12.708 | | |
| 7,300.0 | 7,285.9 | 7,360.9 | 7,360.9 | 14.9 | 12.8 | 90.75 | 198.5 | -190.6 | 335.5 | 309.1 | 26.44 | 12.690 | | |
| 7,400.0 | 7,384.3 | 7,459.3 | 7,459.3 | 15.1 | 13.0 | 66.68 | 198.5 | -190.6 | 330.3 | 303.7 | 26.61 | 12.414 | | |
| 7,500.0 | 7,478.5 | 7,553.5 | 7,553.5 | 15.3 | 13.2 | 67.14 | 198.5 | -190.6 | 316.1 | 289.5 | 26.66 | 11.856 | | |
| 7,600.0 | 7,565.6 | 7,640.6 | 7,640.6 | 15.6 | 13.3 | 74.01 | 198.5 | -190.6 | 297.6 | 270.8 | 26.88 | 11.074 | | |
| 7,700.0 | 7,643.0 | 7,718.0 | 7,718.0 | 15.9 | 13.5 | 83.81 | 198.5 | -190.6 | 282.3 | 255.0 | 27.32 | 10.333 | | |
| 7,762.4 | 7,685.3 | 7,760.3 | 7,760.3 | 16.2 | 13.5 | 90.00 | 198.5 | -190.6 | 278.9 | 251.2 | 27.65 | 10.087 | | |
| 7,800.0 | 7,708.3 | 7,783.3 | 7,783.3 | 16.4 | 13.6 | 93.35 | 198.5 | -190.6 | 280.3 | 252.6 | 27.79 | 10.087 SF | | |
| 7,900.0 | 7,759.5 | 7,834.5 | 7,834.5 | 17.0 | 13.7 | 99.67 | 198.5 | -190.6 | 300.6 | 272.3 | 28.25 | 10.638 | | |
| 8,000.0 | 7,795.1 | 7,870.1 | 7,870.1 | 17.8 | 13.7 | 100.94 | 198.5 | -190.6 | 345.1 | 316.1 | 29.07 | 11.872 | | |
| 8,100.0 | 7,814.0 | 7,889.0 | 7,889.0 | 18.7 | 13.8 | 96.06 | 198.5 | -190.6 | 409.2 | 378.8 | 30.42 | 13.453 | | |
| 8,200.0 | 7,817.0 | 7,892.0 | 7,892.0 | 19.7 | 13.8 | 90.00 | 198.5 | -190.6 | 485.7 | 454.0 | 31.66 | 15.342 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2B-7H-E168 - 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) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 37.54 | 7.3 | 5.6 | 9.2 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 37.54 | 7.3 | 5.6 | 9.2 | 8.9 | 0.26 | 35.094 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 37.54 | 7.3 | 5.6 | 9.2 | 8.6 | 0.61 | 15.040 | CC, ES | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 159.44 | 7.3 | 5.6 | 10.0 | 9.0 | 0.96 | 10.417 | | |
| 400.0 | 400.0 | 400.2 | 400.2 | 0.7 | 0.7 | 163.94 | 6.6 | 5.0 | 11.6 | 10.3 | 1.31 | 8.869 | | |
| 500.0 | 499.9 | 500.4 | 500.3 | 0.8 | 0.8 | 169.96 | 4.6 | 3.3 | 13.3 | 11.6 | 1.66 | 7.996 | | |
| 600.0 | 599.7 | 600.6 | 600.4 | 1.0 | 1.0 | 176.90 | 1.2 | 0.5 | 15.1 | 13.1 | 2.01 | 7.511 | | |
| 700.0 | 699.5 | 700.3 | 700.0 | 1.2 | 1.2 | 169.98 | -2.0 | -2.4 | 17.6 | 15.2 | 2.36 | 7.443 | | |
| 800.0 | 799.2 | 800.0 | 799.7 | 1.4 | 1.4 | 163.51 | -3.7 | -4.5 | 21.1 | 18.4 | 2.71 | 7.799 | | |
| 900.0 | 899.0 | 899.7 | 899.4 | 1.7 | 1.6 | 167.35 | -4.1 | -6.0 | 25.8 | 22.8 | 3.06 | 8.436 | | |
| 1,000.0 | 998.8 | 999.6 | 999.3 | 1.9 | 1.7 | 169.80 | -4.4 | -7.4 | 30.7 | 27.3 | 3.41 | 8.997 | | |
| 1,100.0 | 1,098.6 | 1,099.4 | 1,099.1 | 2.1 | 1.9 | 171.57 | -4.6 | -8.8 | 35.6 | 31.8 | 3.76 | 9.465 | | |
| 1,200.0 | 1,198.4 | 1,199.3 | 1,199.0 | 2.3 | 2.1 | 172.91 | -4.9 | -10.1 | 40.5 | 36.4 | 4.11 | 9.860 | | |
| 1,300.0 | 1,298.2 | 1,299.2 | 1,298.9 | 2.5 | 2.3 | 173.96 | -5.2 | -11.5 | 45.4 | 41.0 | 4.46 | 10.196 | | |
| 1,400.0 | 1,398.0 | 1,399.1 | 1,398.7 | 2.7 | 2.4 | 174.81 | -5.5 | -12.9 | 50.4 | 45.6 | 4.80 | 10.487 | | |
| 1,500.0 | 1,497.8 | 1,498.9 | 1,498.6 | 2.9 | 2.6 | 175.50 | -5.7 | -14.3 | 55.3 | 50.2 | 5.15 | 10.740 | | |
| 1,600.0 | 1,597.6 | 1,598.8 | 1,598.5 | 3.1 | 2.8 | 176.08 | -6.0 | -15.7 | 60.3 | 54.8 | 5.50 | 10.962 | | |
| 1,700.0 | 1,697.4 | 1,698.7 | 1,698.3 | 3.3 | 3.0 | 176.57 | -6.3 | -17.1 | 65.3 | 59.4 | 5.85 | 11.158 | | |
| 1,800.0 | 1,797.2 | 1,798.6 | 1,798.2 | 3.5 | 3.1 | 176.99 | -6.6 | -18.5 | 70.3 | 64.1 | 6.20 | 11.333 | | |
| 1,900.0 | 1,897.0 | 1,898.4 | 1,898.1 | 3.7 | 3.3 | 177.36 | -6.8 | -19.8 | 75.2 | 68.7 | 6.55 | 11.490 | | |
| 2,000.0 | 1,996.8 | 1,998.3 | 1,997.9 | 3.9 | 3.5 | 177.68 | -7.1 | -21.2 | 80.2 | 73.3 | 6.90 | 11.631 | | |
| 2,100.0 | 2,096.6 | 2,098.2 | 2,097.8 | 4.1 | 3.7 | 177.96 | -7.4 | -22.6 | 85.2 | 78.0 | 7.25 | 11.759 | | |
| 2,200.0 | 2,196.4 | 2,198.1 | 2,197.6 | 4.3 | 3.8 | 178.21 | -7.7 | -24.0 | 90.2 | 82.6 | 7.60 | 11.876 | | |
| 2,300.0 | 2,296.2 | 2,297.9 | 2,297.5 | 4.5 | 4.0 | 178.43 | -7.9 | -25.4 | 95.2 | 87.2 | 7.94 | 11.982 | | |
| 2,400.0 | 2,396.0 | 2,397.8 | 2,397.4 | 4.7 | 4.2 | 178.64 | -8.2 | -26.8 | 100.2 | 91.9 | 8.29 | 12.080 | | |
| 2,500.0 | 2,495.8 | 2,497.7 | 2,497.2 | 4.9 | 4.4 | 178.82 | -8.5 | -28.1 | 105.2 | 96.5 | 8.64 | 12.170 | | |
| 2,600.0 | 2,595.6 | 2,597.6 | 2,597.1 | 5.1 | 4.5 | 178.99 | -8.8 | -29.5 | 110.2 | 101.2 | 8.99 | 12.253 | | |
| 2,700.0 | 2,695.4 | 2,697.4 | 2,697.0 | 5.4 | 4.7 | 179.14 | -9.0 | -30.9 | 115.2 | 105.8 | 9.34 | 12.330 | | |
| 2,800.0 | 2,795.2 | 2,797.3 | 2,796.8 | 5.6 | 4.9 | 179.28 | -9.3 | -32.3 | 120.1 | 110.5 | 9.69 | 12.401 | | |
| 2,900.0 | 2,895.0 | 2,897.2 | 2,896.7 | 5.8 | 5.1 | 179.41 | -9.6 | -33.7 | 125.1 | 115.1 | 10.04 | 12.468 | | |
| 3,000.0 | 2,994.7 | 2,997.1 | 2,996.6 | 6.0 | 5.2 | 179.53 | -9.9 | -35.1 | 130.1 | 119.8 | 10.39 | 12.530 | | |
| 3,100.0 | 3,094.5 | 3,096.9 | 3,096.4 | 6.2 | 5.4 | 179.64 | -10.1 | -36.4 | 135.1 | 124.4 | 10.74 | 12.588 | | |
| 3,200.0 | 3,194.3 | 3,196.8 | 3,196.3 | 6.4 | 5.6 | 179.74 | -10.4 | -37.8 | 140.1 | 129.0 | 11.08 | 12.643 | | |
| 3,300.0 | 3,294.1 | 3,296.7 | 3,296.2 | 6.6 | 5.8 | 179.83 | -10.7 | -39.2 | 145.1 | 133.7 | 11.43 | 12.694 | | |
| 3,400.0 | 3,393.9 | 3,396.6 | 3,396.0 | 6.8 | 6.0 | 179.92 | -11.0 | -40.6 | 150.1 | 138.3 | 11.78 | 12.742 | | |
| 3,500.0 | 3,493.7 | 3,496.4 | 3,495.9 | 7.0 | 6.1 | -179.99 | -11.2 | -42.0 | 155.1 | 143.0 | 12.13 | 12.788 | | |
| 3,600.0 | 3,593.5 | 3,596.3 | 3,595.8 | 7.2 | 6.3 | -179.92 | -11.5 | -43.4 | 160.1 | 147.6 | 12.48 | 12.831 | | |
| 3,700.0 | 3,693.3 | 3,696.2 | 3,695.6 | 7.4 | 6.5 | -179.84 | -11.8 | -44.7 | 165.1 | 152.3 | 12.83 | 12.871 | | |
| 3,800.0 | 3,793.1 | 3,796.1 | 3,795.5 | 7.6 | 6.7 | -179.77 | -12.1 | -46.1 | 170.1 | 156.9 | 13.18 | 12.910 | | |
| 3,900.0 | 3,892.9 | 3,895.9 | 3,895.4 | 7.8 | 6.8 | -179.71 | -12.3 | -47.5 | 175.1 | 161.6 | 13.53 | 12.946 | | |
| 4,000.0 | 3,992.7 | 3,995.8 | 3,995.2 | 8.0 | 7.0 | -179.65 | -12.6 | -48.9 | 180.1 | 166.2 | 13.88 | 12.981 | | |
| 4,100.0 | 4,092.5 | 4,095.7 | 4,095.1 | 8.3 | 7.2 | -179.59 | -12.9 | -50.3 | 185.1 | 170.9 | 14.22 | 13.014 | | |
| 4,200.0 | 4,192.3 | 4,195.6 | 4,194.9 | 8.5 | 7.4 | -179.54 | -13.2 | -51.7 | 190.1 | 175.5 | 14.57 | 13.045 | | |
| 4,300.0 | 4,292.1 | 4,295.4 | 4,294.8 | 8.7 | 7.5 | -179.48 | -13.4 | -53.0 | 195.1 | 180.2 | 14.92 | 13.075 | | |
| 4,400.0 | 4,391.9 | 4,395.3 | 4,394.7 | 8.9 | 7.7 | -179.43 | -13.7 | -54.4 | 200.1 | 184.8 | 15.27 | 13.104 | | |
| 4,500.0 | 4,491.7 | 4,495.2 | 4,494.5 | 9.1 | 7.9 | -179.39 | -14.0 | -55.8 | 205.1 | 189.5 | 15.62 | 13.131 | | |
| 4,600.0 | 4,591.5 | 4,595.1 | 4,594.4 | 9.3 | 8.1 | -179.34 | -14.3 | -57.2 | 210.1 | 194.1 | 15.97 | 13.158 | | |
| 4,700.0 | 4,691.3 | 4,694.9 | 4,694.3 | 9.5 | 8.2 | -179.30 | -14.6 | -58.6 | 215.1 | 198.8 | 16.32 | 13.183 | | |
| 4,800.0 | 4,791.1 | 4,794.8 | 4,794.1 | 9.7 | 8.4 | -179.26 | -14.8 | -60.0 | 220.1 | 203.4 | 16.67 | 13.207 | | |
| 4,900.0 | 4,890.9 | 4,894.7 | 4,894.0 | 9.9 | 8.6 | -179.22 | -15.1 | -61.3 | 225.1 | 208.1 | 17.02 | 13.230 | | |
| 5,000.0 | 4,990.7 | 4,994.6 | 4,993.9 | 10.1 | 8.8 | -179.18 | -15.4 | -62.7 | 230.1 | 212.7 | 17.36 | 13.252 | | |
| 5,100.0 | 5,090.5 | 5,094.4 | 5,093.7 | 10.3 | 8.9 | -179.15 | -15.7 | -64.1 | 235.1 | 217.4 | 17.71 | 13.273 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2B-7H-E168 - 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 | 5,190.3 | 5,194.3 | 5,193.6 | 10.5 | 9.1 | -179.11 | -15.9 | -65.5 | 240.1 | 222.0 | 18.06 | 13.294 | | | |
| 5,300.0 | 5,290.0 | 5,294.2 | 5,293.5 | 10.7 | 9.3 | -179.08 | -16.2 | -66.9 | 245.1 | 226.7 | 18.41 | 13.313 | | | |
| 5,400.0 | 5,389.8 | 5,394.1 | 5,393.3 | 10.9 | 9.5 | -179.05 | -16.5 | -68.3 | 250.1 | 231.4 | 18.76 | 13.332 | | | |
| 5,500.0 | 5,489.6 | 5,493.9 | 5,493.2 | 11.2 | 9.6 | -179.02 | -16.8 | -69.6 | 255.1 | 236.0 | 19.11 | 13.350 | | | |
| 5,600.0 | 5,589.4 | 5,593.8 | 5,593.1 | 11.4 | 9.8 | -178.99 | -17.0 | -71.0 | 260.1 | 240.7 | 19.46 | 13.368 | | | |
| 5,700.0 | 5,689.2 | 5,693.7 | 5,692.9 | 11.6 | 10.0 | -178.96 | -17.3 | -72.4 | 265.1 | 245.3 | 19.81 | 13.385 | | | |
| 5,800.0 | 5,789.0 | 5,793.6 | 5,792.8 | 11.8 | 10.2 | -178.93 | -17.6 | -73.8 | 270.1 | 250.0 | 20.16 | 13.401 | | | |
| 5,900.0 | 5,888.8 | 5,893.4 | 5,892.6 | 12.0 | 10.4 | -178.91 | -17.9 | -75.2 | 275.1 | 254.6 | 20.50 | 13.417 | | | |
| 6,000.0 | 5,988.6 | 5,993.3 | 5,992.5 | 12.2 | 10.5 | -178.88 | -18.1 | -76.6 | 280.1 | 259.3 | 20.85 | 13.432 | | | |
| 6,100.0 | 6,088.4 | 6,093.2 | 6,092.4 | 12.4 | 10.7 | -178.86 | -18.4 | -77.9 | 285.1 | 263.9 | 21.20 | 13.447 | | | |
| 6,200.0 | 6,188.2 | 6,193.1 | 6,192.2 | 12.6 | 10.9 | -178.84 | -18.7 | -79.3 | 290.1 | 268.6 | 21.55 | 13.462 | | | |
| 6,300.0 | 6,288.0 | 6,292.9 | 6,292.1 | 12.8 | 11.1 | -178.81 | -19.0 | -80.7 | 295.1 | 273.2 | 21.90 | 13.476 | | | |
| 6,400.0 | 6,387.8 | 6,392.8 | 6,392.0 | 13.0 | 11.2 | -178.79 | -19.2 | -82.1 | 300.1 | 277.9 | 22.25 | 13.489 | | | |
| 6,500.0 | 6,487.6 | 6,492.7 | 6,491.8 | 13.2 | 11.4 | -178.77 | -19.5 | -83.5 | 305.1 | 282.5 | 22.60 | 13.502 | | | |
| 6,600.0 | 6,587.4 | 6,592.6 | 6,591.7 | 13.4 | 11.6 | -178.75 | -19.8 | -84.9 | 310.1 | 287.2 | 22.95 | 13.515 | | | |
| 6,700.0 | 6,687.2 | 6,692.4 | 6,691.6 | 13.6 | 11.8 | -178.73 | -20.1 | -86.2 | 315.1 | 291.8 | 23.30 | 13.527 | | | |
| 6,800.0 | 6,787.0 | 6,792.3 | 6,791.4 | 13.8 | 11.9 | -178.71 | -20.3 | -87.6 | 320.1 | 296.5 | 23.64 | 13.539 | | | |
| 6,900.0 | 6,886.8 | 6,892.2 | 6,891.3 | 14.1 | 12.1 | -178.69 | -20.6 | -89.0 | 325.1 | 301.1 | 23.99 | 13.550 | | | |
| 7,000.0 | 6,986.6 | 6,992.1 | 6,991.2 | 14.3 | 12.3 | -178.67 | -20.9 | -90.4 | 330.1 | 305.8 | 24.34 | 13.562 | | | |
| 7,100.0 | 7,086.4 | 7,091.4 | 7,090.2 | 14.5 | 12.5 | -179.61 | -15.6 | -91.9 | 335.2 | 310.5 | 24.68 | 13.580 | | | |
| 7,200.0 | 7,186.2 | 7,186.1 | 7,182.6 | 14.7 | 12.6 | 176.91 | 5.0 | -93.5 | 341.3 | 316.2 | 25.02 | 13.639 | | | |
| 7,300.0 | 7,285.9 | 7,272.6 | 7,262.9 | 14.9 | 12.8 | 122.02 | 36.8 | -95.2 | 350.9 | 325.5 | 25.43 | 13.799 | | | |
| 7,400.0 | 7,384.3 | 7,354.3 | 7,333.5 | 15.1 | 13.0 | 89.04 | 77.6 | -96.9 | 363.9 | 337.9 | 25.97 | 14.013 | | | |
| 7,500.0 | 7,478.5 | 7,432.8 | 7,395.3 | 15.3 | 13.3 | 78.17 | 126.0 | -98.6 | 378.5 | 351.9 | 26.56 | 14.248 | | | |
| 7,600.0 | 7,565.6 | 7,509.1 | 7,448.4 | 15.6 | 13.6 | 71.49 | 180.6 | -100.3 | 393.4 | 366.2 | 27.13 | 14.499 | | | |
| 7,700.0 | 7,643.0 | 7,583.5 | 7,492.8 | 15.9 | 14.0 | 66.74 | 240.2 | -101.9 | 407.4 | 379.8 | 27.62 | 14.750 | | | |
| 7,800.0 | 7,708.3 | 7,650.0 | 7,525.7 | 16.4 | 14.5 | 63.38 | 298.0 | -103.4 | 419.9 | 391.9 | 28.01 | 14.988 | | | |
| 7,900.0 | 7,759.5 | 7,728.4 | 7,555.5 | 17.0 | 15.2 | 60.79 | 370.4 | -105.1 | 429.7 | 401.2 | 28.49 | 15.081 | | | |
| 8,000.0 | 7,795.1 | 7,800.0 | 7,573.9 | 17.8 | 15.9 | 59.19 | 439.5 | -106.5 | 436.7 | 407.7 | 29.03 | 15.041 | | | |
| 8,100.0 | 7,814.0 | 7,870.6 | 7,583.4 | 18.7 | 16.6 | 58.38 | 509.5 | -107.9 | 440.4 | 410.6 | 29.78 | 14.787 | | | |
| 8,200.0 | 7,817.0 | 7,953.1 | 7,585.0 | 19.7 | 17.6 | 58.26 | 591.9 | -109.4 | 441.0 | 409.8 | 31.18 | 14.142 | | | |
| 8,300.0 | 7,817.0 | 8,053.1 | 7,585.0 | 20.9 | 18.8 | 58.26 | 691.9 | -111.1 | 441.0 | 407.7 | 33.31 | 13.240 | | | |
| 8,400.0 | 7,817.0 | 8,153.1 | 7,585.0 | 22.1 | 20.1 | 58.26 | 791.8 | -112.8 | 441.0 | 405.4 | 35.55 | 12.403 | | | |
| 8,500.0 | 7,817.0 | 8,253.1 | 7,585.0 | 23.3 | 21.5 | 58.26 | 891.8 | -114.6 | 441.0 | 403.1 | 37.90 | 11.634 | | | |
| 8,600.0 | 7,817.0 | 8,353.1 | 7,585.0 | 24.7 | 22.9 | 58.26 | 991.8 | -116.3 | 441.0 | 400.6 | 40.34 | 10.932 | | | |
| 8,700.0 | 7,817.0 | 8,453.1 | 7,585.0 | 26.1 | 24.4 | 58.26 | 1,091.8 | -118.1 | 441.0 | 398.1 | 42.84 | 10.293 | | | |
| 8,800.0 | 7,817.0 | 8,553.1 | 7,585.0 | 27.5 | 25.9 | 58.26 | 1,191.8 | -119.8 | 441.0 | 395.6 | 45.41 | 9.711 | | | |
| 8,900.0 | 7,817.0 | 8,653.1 | 7,585.0 | 29.0 | 27.5 | 58.26 | 1,291.8 | -121.6 | 441.0 | 392.9 | 48.02 | 9.183 | | | |
| 9,000.0 | 7,817.0 | 8,753.1 | 7,585.0 | 30.5 | 29.0 | 58.26 | 1,391.8 | -123.3 | 441.0 | 390.3 | 50.68 | 8.702 | | | |
| 9,100.0 | 7,817.0 | 8,853.1 | 7,585.0 | 32.0 | 30.6 | 58.26 | 1,491.7 | -125.1 | 441.0 | 387.6 | 53.37 | 8.263 | | | |
| 9,200.0 | 7,817.0 | 8,953.1 | 7,585.0 | 33.5 | 32.2 | 58.26 | 1,591.7 | -126.8 | 441.0 | 384.9 | 56.09 | 7.862 | | | |
| 9,300.0 | 7,817.0 | 9,053.1 | 7,585.0 | 35.1 | 33.8 | 58.26 | 1,691.7 | -128.5 | 441.0 | 382.1 | 58.84 | 7.495 | | | |
| 9,400.0 | 7,817.0 | 9,153.1 | 7,585.0 | 36.7 | 35.4 | 58.26 | 1,791.7 | -130.3 | 441.0 | 379.4 | 61.61 | 7.158 | | | |
| 9,500.0 | 7,817.0 | 9,253.1 | 7,585.0 | 38.3 | 37.1 | 58.26 | 1,891.7 | -132.0 | 441.0 | 376.6 | 64.40 | 6.848 | | | |
| 9,600.0 | 7,817.0 | 9,353.1 | 7,585.0 | 39.9 | 38.7 | 58.26 | 1,991.7 | -133.8 | 441.0 | 373.8 | 67.20 | 6.562 | | | |
| 9,700.0 | 7,817.0 | 9,453.1 | 7,585.0 | 41.5 | 40.4 | 58.26 | 2,091.6 | -135.5 | 441.0 | 370.9 | 70.03 | 6.297 | | | |
| 9,800.0 | 7,817.0 | 9,553.1 | 7,585.0 | 43.1 | 42.1 | 58.26 | 2,191.6 | -137.3 | 441.0 | 368.1 | 72.86 | 6.052 | | | |
| 9,900.0 | 7,817.0 | 9,653.1 | 7,585.0 | 44.8 | 43.7 | 58.26 | 2,291.6 | -139.0 | 441.0 | 365.3 | 75.71 | 5.824 | | | |
| 10,000.0 | 7,817.0 | 9,753.1 | 7,585.0 | 46.4 | 45.4 | 58.26 | 2,391.6 | -140.8 | 441.0 | 362.4 | 78.57 | 5.613 | | | |
| 10,100.0 | 7,817.0 | 9,853.1 | 7,585.0 | 48.1 | 47.1 | 58.26 | 2,491.6 | -142.5 | 441.0 | 359.5 | 81.44 | 5.415 | | | |
| 10,200.0 | 7,817.0 | 9,953.1 | 7,585.0 | 49.7 | 48.8 | 58.26 | 2,591.6 | -144.3 | 441.0 | 356.7 | 84.31 | 5.230 | | | |
| 10,300.0 | 7,817.0 | 10,053.1 | 7,585.0 | 51.4 | 50.5 | 58.26 | 2,691.6 | -146.0 | 441.0 | 353.8 | 87.20 | 5.057 | | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2B-7H-E168 - 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 | 7,817.0 | 10,153.1 | 7,585.0 | 53.1 | 52.2 | 58.26 | 2,791.5 | -147.7 | 441.0 | 350.9 | 90.09 | 4.895 | |
| 10,500.0 | 7,817.0 | 10,253.1 | 7,585.0 | 54.8 | 53.9 | 58.26 | 2,891.5 | -149.5 | 441.0 | 348.0 | 92.99 | 4.742 | |
| 10,600.0 | 7,817.0 | 10,353.1 | 7,585.0 | 56.4 | 55.6 | 58.26 | 2,991.5 | -151.2 | 441.0 | 345.1 | 95.89 | 4.599 | |
| 10,700.0 | 7,817.0 | 10,453.1 | 7,585.0 | 58.1 | 57.3 | 58.26 | 3,091.5 | -153.0 | 441.0 | 342.2 | 98.80 | 4.463 | |
| 10,800.0 | 7,817.0 | 10,553.1 | 7,585.0 | 59.8 | 59.0 | 58.26 | 3,191.5 | -154.7 | 441.0 | 339.3 | 101.71 | 4.335 | |
| 10,900.0 | 7,817.0 | 10,653.1 | 7,585.0 | 61.5 | 60.7 | 58.26 | 3,291.5 | -156.5 | 441.0 | 336.3 | 104.63 | 4.215 | |
| 11,000.0 | 7,817.0 | 10,753.1 | 7,585.0 | 63.2 | 62.4 | 58.26 | 3,391.4 | -158.2 | 441.0 | 333.4 | 107.55 | 4.100 | |
| 11,100.0 | 7,817.0 | 10,853.1 | 7,585.0 | 64.9 | 64.2 | 58.26 | 3,491.4 | -160.0 | 441.0 | 330.5 | 110.48 | 3.992 | |
| 11,200.0 | 7,817.0 | 10,953.1 | 7,585.0 | 66.6 | 65.9 | 58.26 | 3,591.4 | -161.7 | 441.0 | 327.6 | 113.40 | 3.888 | |
| 11,300.0 | 7,817.0 | 11,053.1 | 7,585.0 | 68.3 | 67.6 | 58.26 | 3,691.4 | -163.5 | 441.0 | 324.6 | 116.34 | 3.790 | |
| 11,400.0 | 7,817.0 | 11,153.1 | 7,585.0 | 70.0 | 69.3 | 58.26 | 3,791.4 | -165.2 | 441.0 | 321.7 | 119.27 | 3.697 | |
| 11,500.0 | 7,817.0 | 11,253.1 | 7,585.0 | 71.8 | 71.0 | 58.26 | 3,891.4 | -166.9 | 441.0 | 318.8 | 122.21 | 3.608 | |
| 11,600.0 | 7,817.0 | 11,353.1 | 7,585.0 | 73.5 | 72.8 | 58.26 | 3,991.4 | -168.7 | 441.0 | 315.8 | 125.15 | 3.524 | |
| 11,700.0 | 7,817.0 | 11,453.1 | 7,585.0 | 75.2 | 74.5 | 58.26 | 4,091.3 | -170.4 | 441.0 | 312.9 | 128.09 | 3.443 | |
| 11,800.0 | 7,817.0 | 11,553.1 | 7,585.0 | 76.9 | 76.2 | 58.26 | 4,191.3 | -172.2 | 441.0 | 309.9 | 131.04 | 3.365 | |
| 11,900.0 | 7,817.0 | 11,653.1 | 7,585.0 | 78.6 | 78.0 | 58.26 | 4,291.3 | -173.9 | 441.0 | 307.0 | 133.98 | 3.291 | |
| 12,000.0 | 7,817.0 | 11,753.1 | 7,585.0 | 80.3 | 79.7 | 58.26 | 4,391.3 | -175.7 | 441.0 | 304.0 | 136.93 | 3.220 | |
| 12,100.0 | 7,817.0 | 11,853.1 | 7,585.0 | 82.1 | 81.4 | 58.26 | 4,491.3 | -177.4 | 441.0 | 301.1 | 139.88 | 3.152 | |
| 12,200.0 | 7,817.0 | 11,953.1 | 7,585.0 | 83.8 | 83.2 | 58.26 | 4,591.3 | -179.2 | 441.0 | 298.1 | 142.83 | 3.087 | |
| 12,300.0 | 7,817.0 | 12,053.1 | 7,585.0 | 85.5 | 84.9 | 58.26 | 4,691.2 | -180.9 | 441.0 | 295.2 | 145.79 | 3.025 | |
| 12,400.0 | 7,817.0 | 12,153.1 | 7,585.0 | 87.2 | 86.6 | 58.26 | 4,791.2 | -182.7 | 441.0 | 292.2 | 148.74 | 2.965 | |
| 12,500.0 | 7,817.0 | 12,253.1 | 7,585.0 | 89.0 | 88.4 | 58.26 | 4,891.2 | -184.4 | 441.0 | 289.3 | 151.70 | 2.907 | |
| 12,600.0 | 7,817.0 | 12,353.1 | 7,585.0 | 90.7 | 90.1 | 58.26 | 4,991.2 | -186.1 | 441.0 | 286.3 | 154.66 | 2.851 | |
| 12,700.0 | 7,817.0 | 12,453.1 | 7,585.0 | 92.4 | 91.8 | 58.26 | 5,091.2 | -187.9 | 441.0 | 283.4 | 157.62 | 2.798 | |
| 12,800.0 | 7,817.0 | 12,553.1 | 7,585.0 | 94.1 | 93.6 | 58.26 | 5,191.2 | -189.6 | 441.0 | 280.4 | 160.58 | 2.746 | |
| 12,900.0 | 7,817.0 | 12,653.1 | 7,585.0 | 95.9 | 95.3 | 58.26 | 5,291.2 | -191.4 | 441.0 | 277.4 | 163.54 | 2.696 | |
| 13,000.0 | 7,817.0 | 12,753.1 | 7,585.0 | 97.6 | 97.0 | 58.26 | 5,391.1 | -193.1 | 441.0 | 274.5 | 166.50 | 2.648 | |
| 13,100.0 | 7,817.0 | 12,853.1 | 7,585.0 | 99.3 | 98.8 | 58.26 | 5,491.1 | -194.9 | 441.0 | 271.5 | 169.46 | 2.602 | |
| 13,200.0 | 7,817.0 | 12,953.1 | 7,585.0 | 101.1 | 100.5 | 58.26 | 5,591.1 | -196.6 | 441.0 | 268.5 | 172.43 | 2.557 | |
| 13,300.0 | 7,817.0 | 13,053.1 | 7,585.0 | 102.8 | 102.3 | 58.26 | 5,691.1 | -198.4 | 441.0 | 265.6 | 175.39 | 2.514 | |
| 13,400.0 | 7,817.0 | 13,153.1 | 7,585.0 | 104.5 | 104.0 | 58.26 | 5,791.1 | -200.1 | 441.0 | 262.6 | 178.36 | 2.472 | |
| 13,500.0 | 7,817.0 | 13,253.1 | 7,585.0 | 106.3 | 105.7 | 58.26 | 5,891.1 | -201.9 | 441.0 | 259.6 | 181.33 | 2.432 | |
| 13,600.0 | 7,817.0 | 13,353.1 | 7,585.0 | 108.0 | 107.5 | 58.26 | 5,991.0 | -203.6 | 441.0 | 256.7 | 184.29 | 2.393 | |
| 13,700.0 | 7,817.0 | 13,453.1 | 7,585.0 | 109.7 | 109.2 | 58.26 | 6,091.0 | -205.3 | 441.0 | 253.7 | 187.26 | 2.355 | |
| 13,800.0 | 7,817.0 | 13,553.1 | 7,585.0 | 111.5 | 111.0 | 58.26 | 6,191.0 | -207.1 | 441.0 | 250.7 | 190.23 | 2.318 | |
| 13,900.0 | 7,817.0 | 13,653.1 | 7,585.0 | 113.2 | 112.7 | 58.26 | 6,291.0 | -208.8 | 441.0 | 247.8 | 193.20 | 2.282 | |
| 14,000.0 | 7,817.0 | 13,753.1 | 7,585.0 | 115.0 | 114.5 | 58.26 | 6,391.0 | -210.6 | 441.0 | 244.8 | 196.17 | 2.248 | |
| 14,100.0 | 7,817.0 | 13,853.1 | 7,585.0 | 116.7 | 116.2 | 58.26 | 6,491.0 | -212.3 | 441.0 | 241.8 | 199.14 | 2.214 | |
| 14,200.0 | 7,817.0 | 13,953.1 | 7,585.0 | 118.4 | 117.9 | 58.26 | 6,591.0 | -214.1 | 441.0 | 238.9 | 202.11 | 2.182 | |
| 14,300.0 | 7,817.0 | 14,053.1 | 7,585.0 | 120.2 | 119.7 | 58.26 | 6,690.9 | -215.8 | 441.0 | 235.9 | 205.09 | 2.150 | |
| 14,400.0 | 7,817.0 | 14,153.1 | 7,585.0 | 121.9 | 121.4 | 58.26 | 6,790.9 | -217.6 | 441.0 | 232.9 | 208.06 | 2.119 | |
| 14,500.0 | 7,817.0 | 14,253.1 | 7,585.0 | 123.7 | 123.2 | 58.26 | 6,890.9 | -219.3 | 441.0 | 229.9 | 211.03 | 2.090 | |
| 14,600.0 | 7,817.0 | 14,353.1 | 7,585.0 | 125.4 | 124.9 | 58.26 | 6,990.9 | -221.0 | 441.0 | 227.0 | 214.01 | 2.061 | |
| 14,700.0 | 7,817.0 | 14,453.1 | 7,585.0 | 127.1 | 126.7 | 58.26 | 7,090.9 | -222.8 | 441.0 | 224.0 | 216.98 | 2.032 | |
| 14,759.2 | 7,817.0 | 14,512.3 | 7,585.0 | 128.2 | 127.7 | 58.26 | 7,150.0 | -223.8 | 441.0 | 222.2 | 218.74 | 2.016 SF | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - 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 | 1.0 | 1.0 | 0.0 | 0.0 | 90.00 | 0.0 | 8.4 | 8.4 | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 90.00 | 0.0 | 8.4 | 8.4 | 8.1 | 0.26 | 31.859 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 90.00 | 0.0 | 8.4 | 8.4 | 7.8 | 0.61 | 13.706 CC, ES | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | -152.73 | 0.0 | 8.4 | 9.2 | 8.2 | 0.96 | 9.526 | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.7 | 0.7 | -158.68 | 0.0 | 8.4 | 11.6 | 10.2 | 1.31 | 8.810 SF | | |
| 500.0 | 499.9 | 500.9 | 500.9 | 0.8 | 0.8 | -164.47 | 0.0 | 8.4 | 15.7 | 14.0 | 1.66 | 9.455 | | |
| 600.0 | 599.7 | 600.7 | 600.7 | 1.0 | 1.0 | -168.79 | 0.0 | 8.4 | 21.6 | 19.6 | 2.01 | 10.778 | | |
| 700.0 | 699.5 | 700.0 | 700.0 | 1.2 | 1.2 | 176.58 | -0.1 | 9.3 | 29.1 | 26.7 | 2.36 | 12.354 | | |
| 800.0 | 799.2 | 799.1 | 799.0 | 1.4 | 1.4 | 166.62 | -0.3 | 11.8 | 37.8 | 35.1 | 2.70 | 13.992 | | |
| 900.0 | 899.0 | 898.5 | 898.4 | 1.7 | 1.5 | 169.89 | -0.5 | 15.4 | 47.5 | 44.4 | 3.05 | 15.567 | | |
| 1,000.0 | 998.8 | 998.0 | 997.8 | 1.9 | 1.7 | 172.06 | -0.8 | 19.0 | 57.3 | 53.9 | 3.40 | 16.852 | | |
| 1,100.0 | 1,098.6 | 1,097.5 | 1,097.3 | 2.1 | 1.9 | 173.59 | -1.1 | 22.6 | 67.1 | 63.4 | 3.75 | 17.913 | | |
| 1,200.0 | 1,198.4 | 1,197.0 | 1,196.7 | 2.3 | 2.1 | 174.73 | -1.3 | 26.2 | 77.0 | 72.9 | 4.10 | 18.803 | | |
| 1,300.0 | 1,298.2 | 1,296.5 | 1,296.1 | 2.5 | 2.3 | 175.61 | -1.6 | 29.8 | 86.9 | 82.5 | 4.44 | 19.559 | | |
| 1,400.0 | 1,398.0 | 1,396.0 | 1,395.6 | 2.7 | 2.4 | 176.31 | -1.9 | 33.4 | 96.8 | 92.0 | 4.79 | 20.208 | | |
| 1,500.0 | 1,497.8 | 1,495.5 | 1,495.0 | 2.9 | 2.6 | 176.88 | -2.2 | 37.0 | 106.8 | 101.6 | 5.14 | 20.772 | | |
| 1,600.0 | 1,597.6 | 1,595.0 | 1,594.4 | 3.1 | 2.8 | 177.36 | -2.4 | 40.5 | 116.7 | 111.2 | 5.49 | 21.266 | | |
| 1,700.0 | 1,697.4 | 1,694.5 | 1,693.9 | 3.3 | 3.0 | 177.76 | -2.7 | 44.1 | 126.6 | 120.8 | 5.83 | 21.703 | | |
| 1,800.0 | 1,797.2 | 1,794.0 | 1,793.3 | 3.5 | 3.2 | 178.10 | -3.0 | 47.7 | 136.6 | 130.4 | 6.18 | 22.091 | | |
| 1,900.0 | 1,897.0 | 1,893.5 | 1,892.8 | 3.7 | 3.4 | 178.39 | -3.2 | 51.3 | 146.5 | 140.0 | 6.53 | 22.438 | | |
| 2,000.0 | 1,996.8 | 1,993.0 | 1,992.2 | 3.9 | 3.5 | 178.65 | -3.5 | 54.9 | 156.5 | 149.6 | 6.88 | 22.751 | | |
| 2,100.0 | 2,096.6 | 2,092.5 | 2,091.6 | 4.1 | 3.7 | 178.87 | -3.8 | 58.5 | 166.5 | 159.2 | 7.23 | 23.034 | | |
| 2,200.0 | 2,196.4 | 2,192.0 | 2,191.1 | 4.3 | 3.9 | 179.08 | -4.0 | 62.1 | 176.4 | 168.8 | 7.57 | 23.292 | | |
| 2,300.0 | 2,296.2 | 2,291.5 | 2,290.5 | 4.5 | 4.1 | 179.25 | -4.3 | 65.7 | 186.4 | 178.5 | 7.92 | 23.527 | | |
| 2,400.0 | 2,396.0 | 2,391.0 | 2,389.9 | 4.7 | 4.3 | 179.42 | -4.6 | 69.3 | 196.4 | 188.1 | 8.27 | 23.742 | | |
| 2,500.0 | 2,495.8 | 2,490.5 | 2,489.4 | 4.9 | 4.5 | 179.56 | -4.9 | 72.8 | 206.3 | 197.7 | 8.62 | 23.940 | | |
| 2,600.0 | 2,595.6 | 2,590.0 | 2,588.8 | 5.1 | 4.6 | 179.69 | -5.1 | 76.4 | 216.3 | 207.3 | 8.97 | 24.123 | | |
| 2,700.0 | 2,695.4 | 2,689.5 | 2,688.2 | 5.4 | 4.8 | 179.81 | -5.4 | 80.0 | 226.3 | 216.9 | 9.31 | 24.293 | | |
| 2,800.0 | 2,795.2 | 2,789.0 | 2,787.7 | 5.6 | 5.0 | 179.92 | -5.7 | 83.6 | 236.2 | 226.6 | 9.66 | 24.450 | | |
| 2,900.0 | 2,895.0 | 2,888.5 | 2,887.1 | 5.8 | 5.2 | -179.97 | -5.9 | 87.2 | 246.2 | 236.2 | 10.01 | 24.597 | | |
| 3,000.0 | 2,994.7 | 2,988.0 | 2,986.5 | 6.0 | 5.4 | -179.88 | -6.2 | 90.8 | 256.2 | 245.8 | 10.36 | 24.733 | | |
| 3,100.0 | 3,094.5 | 3,087.5 | 3,086.0 | 6.2 | 5.6 | -179.79 | -6.5 | 94.4 | 266.1 | 255.4 | 10.71 | 24.861 | | |
| 3,200.0 | 3,194.3 | 3,187.0 | 3,185.4 | 6.4 | 5.7 | -179.71 | -6.8 | 98.0 | 276.1 | 265.1 | 11.05 | 24.981 | | |
| 3,300.0 | 3,294.1 | 3,286.5 | 3,284.9 | 6.6 | 5.9 | -179.64 | -7.0 | 101.6 | 286.1 | 274.7 | 11.40 | 25.094 | | |
| 3,400.0 | 3,393.9 | 3,386.0 | 3,384.3 | 6.8 | 6.1 | -179.57 | -7.3 | 105.1 | 296.1 | 284.3 | 11.75 | 25.200 | | |
| 3,500.0 | 3,493.7 | 3,485.5 | 3,483.7 | 7.0 | 6.3 | -179.51 | -7.6 | 108.7 | 306.0 | 293.9 | 12.10 | 25.300 | | |
| 3,600.0 | 3,593.5 | 3,585.0 | 3,583.2 | 7.2 | 6.5 | -179.44 | -7.8 | 112.3 | 316.0 | 303.6 | 12.44 | 25.394 | | |
| 3,700.0 | 3,693.3 | 3,684.5 | 3,682.6 | 7.4 | 6.7 | -179.39 | -8.1 | 115.9 | 326.0 | 313.2 | 12.79 | 25.483 | | |
| 3,800.0 | 3,793.1 | 3,784.0 | 3,782.0 | 7.6 | 6.9 | -179.33 | -8.4 | 119.5 | 336.0 | 322.8 | 13.14 | 25.568 | | |
| 3,900.0 | 3,892.9 | 3,883.5 | 3,881.5 | 7.8 | 7.0 | -179.28 | -8.7 | 123.1 | 345.9 | 332.5 | 13.49 | 25.648 | | |
| 4,000.0 | 3,992.7 | 3,983.0 | 3,980.9 | 8.0 | 7.2 | -179.23 | -8.9 | 126.7 | 355.9 | 342.1 | 13.84 | 25.724 | | |
| 4,100.0 | 4,092.5 | 4,082.5 | 4,080.3 | 8.3 | 7.4 | -179.19 | -9.2 | 130.3 | 365.9 | 351.7 | 14.18 | 25.797 | | |
| 4,200.0 | 4,192.3 | 4,182.0 | 4,179.8 | 8.5 | 7.6 | -179.15 | -9.5 | 133.9 | 375.9 | 361.3 | 14.53 | 25.866 | | |
| 4,300.0 | 4,292.1 | 4,281.5 | 4,279.2 | 8.7 | 7.8 | -179.11 | -9.7 | 137.4 | 385.9 | 371.0 | 14.88 | 25.931 | | |
| 4,400.0 | 4,391.9 | 4,381.0 | 4,378.6 | 8.9 | 8.0 | -179.07 | -10.0 | 141.0 | 395.8 | 380.6 | 15.23 | 25.994 | | |
| 4,500.0 | 4,491.7 | 4,480.5 | 4,478.1 | 9.1 | 8.1 | -179.03 | -10.3 | 144.6 | 405.8 | 390.2 | 15.58 | 26.054 | | |
| 4,600.0 | 4,591.5 | 4,580.0 | 4,577.5 | 9.3 | 8.3 | -179.00 | -10.5 | 148.2 | 415.8 | 399.9 | 15.92 | 26.112 | | |
| 4,700.0 | 4,691.3 | 4,679.5 | 4,676.9 | 9.5 | 8.5 | -178.96 | -10.8 | 151.8 | 425.8 | 409.5 | 16.27 | 26.167 | | |
| 4,800.0 | 4,791.1 | 4,779.0 | 4,776.4 | 9.7 | 8.7 | -178.93 | -11.1 | 155.4 | 435.7 | 419.1 | 16.62 | 26.219 | | |
| 4,900.0 | 4,890.9 | 4,878.5 | 4,875.8 | 9.9 | 8.9 | -178.90 | -11.4 | 159.0 | 445.7 | 428.7 | 16.97 | 26.270 | | |
| 5,000.0 | 4,990.7 | 4,978.0 | 4,975.3 | 10.1 | 9.1 | -178.87 | -11.6 | 162.6 | 455.7 | 438.4 | 17.31 | 26.318 | | |
| 5,100.0 | 5,090.5 | 5,077.5 | 5,074.7 | 10.3 | 9.3 | -178.84 | -11.9 | 166.1 | 465.7 | 448.0 | 17.66 | 26.365 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 | | | | | | | | | | | | | S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2C-7H-E168 - Hz - Plan #1 | | Offset Site Error: | | 0.0 ft |
|-----------------|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------|-------|-----------------|------------------|------------------------|-------------------|--|---------|--------------------|--|--------|
| Survey Program: | | | | | | | | | | | | | 0-Geolink MWD | | Offset Well Error: | | 0.0 ft |
| Offset | | | | Semi Major Axis | | | Distance | | | | | | | Warning | | | |
| Reference | | Offset | | Reference | Offset | Highside Toolface | Offset Wellbore Centre | | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | +N/-S | +E/-W | | | | | | | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | | | | | | | |
| 5,200.0 | 5,190.3 | 5,177.0 | 5,174.1 | 10.5 | 9.4 | -178.82 | -12.2 | 169.7 | 475.7 | 457.6 | 18.01 | 26.410 | | | | | |
| 5,300.0 | 5,290.0 | 5,276.5 | 5,273.6 | 10.7 | 9.6 | -178.79 | -12.4 | 173.3 | 485.6 | 467.3 | 18.36 | 26.453 | | | | | |
| 5,400.0 | 5,389.8 | 5,376.0 | 5,373.0 | 10.9 | 9.8 | -178.77 | -12.7 | 176.9 | 495.6 | 476.9 | 18.71 | 26.494 | | | | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2D-7H-E168 - 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 | 1.0 | 1.0 | 0.0 | 0.0 | 62.50 | 7.3 | 14.0 | 15.8 | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 62.50 | 7.3 | 14.0 | 15.8 | 15.5 | 0.26 | 59.864 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 62.50 | 7.3 | 14.0 | 15.8 | 15.2 | 0.61 | 25.754 CC, ES | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | -177.63 | 7.3 | 14.0 | 16.6 | 15.7 | 0.96 | 17.314 | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.7 | 0.7 | -177.95 | 7.3 | 14.0 | 19.3 | 18.0 | 1.31 | 14.703 | | |
| 500.0 | 499.9 | 500.9 | 500.9 | 0.8 | 0.8 | -178.33 | 7.3 | 14.0 | 23.6 | 22.0 | 1.66 | 14.245 SF | | |
| 600.0 | 599.7 | 600.0 | 600.0 | 1.0 | 1.0 | -177.83 | 7.3 | 14.9 | 30.5 | 28.5 | 2.00 | 15.206 | | |
| 700.0 | 699.5 | 699.3 | 699.2 | 1.2 | 1.2 | 170.51 | 7.2 | 17.5 | 39.4 | 37.1 | 2.35 | 16.757 | | |
| 800.0 | 799.2 | 798.0 | 797.9 | 1.4 | 1.4 | 161.57 | 7.0 | 21.7 | 49.5 | 46.8 | 2.70 | 18.338 | | |
| 900.0 | 899.0 | 896.3 | 896.0 | 1.7 | 1.6 | 165.61 | 6.8 | 27.7 | 61.3 | 58.3 | 3.05 | 20.118 | | |
| 1,000.0 | 998.8 | 994.4 | 993.8 | 1.9 | 1.7 | 168.70 | 6.5 | 35.3 | 74.9 | 71.5 | 3.39 | 22.077 | | |
| 1,100.0 | 1,098.6 | 1,093.3 | 1,092.3 | 2.1 | 2.0 | 170.95 | 6.3 | 43.6 | 89.3 | 85.6 | 3.74 | 23.871 | | |
| 1,200.0 | 1,198.4 | 1,192.2 | 1,190.9 | 2.3 | 2.2 | 172.57 | 6.0 | 51.9 | 103.8 | 99.7 | 4.09 | 25.386 | | |
| 1,300.0 | 1,298.2 | 1,291.1 | 1,289.5 | 2.5 | 2.4 | 173.80 | 5.7 | 60.2 | 118.3 | 113.9 | 4.44 | 26.680 | | |
| 1,400.0 | 1,398.0 | 1,390.0 | 1,388.0 | 2.7 | 2.6 | 174.76 | 5.4 | 68.4 | 132.9 | 128.1 | 4.78 | 27.795 | | |
| 1,500.0 | 1,497.8 | 1,488.9 | 1,486.6 | 2.9 | 2.8 | 175.53 | 5.1 | 76.7 | 147.5 | 142.4 | 5.13 | 28.766 | | |
| 1,600.0 | 1,597.6 | 1,587.9 | 1,585.1 | 3.1 | 3.0 | 176.16 | 4.8 | 85.0 | 162.2 | 156.7 | 5.47 | 29.618 | | |
| 1,700.0 | 1,697.4 | 1,686.8 | 1,683.7 | 3.3 | 3.2 | 176.69 | 4.5 | 93.3 | 176.8 | 171.0 | 5.82 | 30.371 | | |
| 1,800.0 | 1,797.2 | 1,785.7 | 1,782.3 | 3.5 | 3.5 | 177.13 | 4.3 | 101.6 | 191.5 | 185.3 | 6.17 | 31.043 | | |
| 1,900.0 | 1,897.0 | 1,884.6 | 1,880.8 | 3.7 | 3.7 | 177.51 | 4.0 | 109.9 | 206.1 | 199.6 | 6.51 | 31.644 | | |
| 2,000.0 | 1,996.8 | 1,983.5 | 1,979.4 | 3.9 | 3.9 | 177.85 | 3.7 | 118.2 | 220.8 | 213.9 | 6.86 | 32.186 | | |
| 2,100.0 | 2,096.6 | 2,082.4 | 2,078.0 | 4.1 | 4.1 | 178.14 | 3.4 | 126.5 | 235.5 | 228.3 | 7.21 | 32.677 | | |
| 2,200.0 | 2,196.4 | 2,181.3 | 2,176.5 | 4.3 | 4.4 | 178.39 | 3.1 | 134.8 | 250.2 | 242.6 | 7.55 | 33.123 | | |
| 2,300.0 | 2,296.2 | 2,280.2 | 2,275.1 | 4.5 | 4.6 | 178.62 | 2.8 | 143.1 | 264.9 | 257.0 | 7.90 | 33.531 | | |
| 2,400.0 | 2,396.0 | 2,379.1 | 2,373.6 | 4.7 | 4.8 | 178.82 | 2.5 | 151.3 | 279.6 | 271.3 | 8.25 | 33.905 | | |
| 2,500.0 | 2,495.8 | 2,478.0 | 2,472.2 | 4.9 | 5.0 | 179.01 | 2.2 | 159.6 | 294.3 | 285.7 | 8.59 | 34.249 | | |
| 2,600.0 | 2,595.6 | 2,576.9 | 2,570.8 | 5.1 | 5.2 | 179.17 | 2.0 | 167.9 | 309.0 | 300.0 | 8.94 | 34.567 | | |
| 2,700.0 | 2,695.4 | 2,675.9 | 2,669.3 | 5.4 | 5.5 | 179.32 | 1.7 | 176.2 | 323.7 | 314.4 | 9.28 | 34.862 | | |
| 2,800.0 | 2,795.2 | 2,774.8 | 2,767.9 | 5.6 | 5.7 | 179.46 | 1.4 | 184.5 | 338.4 | 328.8 | 9.63 | 35.136 | | |
| 2,900.0 | 2,895.0 | 2,873.7 | 2,866.4 | 5.8 | 5.9 | 179.59 | 1.1 | 192.8 | 353.1 | 343.1 | 9.98 | 35.390 | | |
| 3,000.0 | 2,994.7 | 2,972.6 | 2,965.0 | 6.0 | 6.1 | 179.70 | 0.8 | 201.1 | 367.8 | 357.5 | 10.32 | 35.628 | | |
| 3,100.0 | 3,094.5 | 3,071.5 | 3,063.6 | 6.2 | 6.4 | 179.81 | 0.5 | 209.4 | 382.5 | 371.8 | 10.67 | 35.851 | | |
| 3,200.0 | 3,194.3 | 3,170.4 | 3,162.1 | 6.4 | 6.6 | 179.91 | 0.2 | 217.7 | 397.2 | 386.2 | 11.02 | 36.059 | | |
| 3,300.0 | 3,294.1 | 3,269.3 | 3,260.7 | 6.6 | 6.8 | -180.00 | -0.1 | 226.0 | 411.9 | 400.6 | 11.36 | 36.255 | | |
| 3,400.0 | 3,393.9 | 3,368.2 | 3,359.2 | 6.8 | 7.0 | -179.91 | -0.3 | 234.3 | 426.7 | 414.9 | 11.71 | 36.440 | | |
| 3,500.0 | 3,493.7 | 3,467.1 | 3,457.8 | 7.0 | 7.3 | -179.83 | -0.6 | 242.5 | 441.4 | 429.3 | 12.05 | 36.614 | | |
| 3,600.0 | 3,593.5 | 3,566.0 | 3,556.4 | 7.2 | 7.5 | -179.76 | -0.9 | 250.8 | 456.1 | 443.7 | 12.40 | 36.778 | | |
| 3,700.0 | 3,693.3 | 3,665.0 | 3,654.9 | 7.4 | 7.7 | -179.69 | -1.2 | 259.1 | 470.8 | 458.1 | 12.75 | 36.934 | | |
| 3,800.0 | 3,793.1 | 3,763.9 | 3,753.5 | 7.6 | 7.9 | -179.62 | -1.5 | 267.4 | 485.5 | 472.4 | 13.09 | 37.081 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2E-7H-E168 - 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 | 1.0 | 1.0 | 0.0 | 0.0 | 90.00 | 0.0 | 30.8 | 30.8 | | | | | |
| 100.0 | 100.0 | 101.0 | 101.0 | 0.1 | 0.1 | 90.00 | 0.0 | 30.8 | 30.8 | 30.5 | 0.26 | 116.818 | | |
| 200.0 | 200.0 | 201.0 | 201.0 | 0.3 | 0.3 | 90.00 | 0.0 | 30.8 | 30.8 | 30.2 | 0.61 | 50.255 CC, ES | | |
| 300.0 | 300.0 | 301.0 | 301.0 | 0.5 | 0.5 | -150.79 | 0.0 | 30.8 | 31.5 | 30.6 | 0.96 | 32.797 | | |
| 400.0 | 400.0 | 401.0 | 401.0 | 0.7 | 0.7 | -152.94 | 0.0 | 30.8 | 33.9 | 32.5 | 1.31 | 25.811 | | |
| 500.0 | 499.9 | 500.0 | 500.0 | 0.8 | 0.8 | -155.76 | 0.0 | 31.7 | 38.7 | 37.0 | 1.66 | 23.287 SF | | |
| 600.0 | 599.7 | 599.1 | 599.1 | 1.0 | 1.0 | -158.43 | 0.0 | 34.2 | 46.9 | 44.9 | 2.01 | 23.326 | | |
| 700.0 | 699.5 | 697.6 | 697.5 | 1.2 | 1.2 | -173.78 | -0.1 | 38.5 | 57.6 | 55.3 | 2.36 | 24.451 | | |
| 800.0 | 799.2 | 795.8 | 795.5 | 1.4 | 1.4 | 173.80 | -0.1 | 44.5 | 69.9 | 67.2 | 2.70 | 25.895 | | |
| 900.0 | 899.0 | 893.5 | 892.9 | 1.7 | 1.6 | 175.09 | -0.2 | 52.0 | 83.9 | 80.9 | 3.04 | 27.564 | | |
| 1,000.0 | 998.8 | 990.7 | 989.7 | 1.9 | 1.8 | 176.13 | -0.3 | 61.2 | 99.6 | 96.2 | 3.39 | 29.402 | | |
| 1,100.0 | 1,098.6 | 1,087.4 | 1,085.7 | 2.1 | 2.0 | 176.97 | -0.4 | 72.0 | 117.0 | 113.3 | 3.73 | 31.362 | | |
| 1,200.0 | 1,198.4 | 1,184.6 | 1,182.1 | 2.3 | 2.3 | 177.65 | -0.5 | 84.2 | 135.8 | 131.8 | 4.07 | 33.344 | | |
| 1,300.0 | 1,298.2 | 1,282.7 | 1,279.5 | 2.5 | 2.5 | 178.18 | -0.6 | 96.7 | 154.9 | 150.5 | 4.42 | 35.053 | | |
| 1,400.0 | 1,398.0 | 1,380.9 | 1,376.8 | 2.7 | 2.8 | 178.60 | -0.7 | 109.3 | 173.9 | 169.2 | 4.76 | 36.518 | | |
| 1,500.0 | 1,497.8 | 1,479.0 | 1,474.2 | 2.9 | 3.1 | 178.93 | -0.8 | 121.8 | 193.0 | 187.9 | 5.11 | 37.788 | | |
| 1,600.0 | 1,597.6 | 1,577.2 | 1,571.6 | 3.1 | 3.3 | 179.20 | -1.0 | 134.4 | 212.1 | 206.6 | 5.45 | 38.898 | | |
| 1,700.0 | 1,697.4 | 1,675.4 | 1,668.9 | 3.3 | 3.6 | 179.43 | -1.1 | 146.9 | 231.1 | 225.4 | 5.80 | 39.877 | | |
| 1,800.0 | 1,797.2 | 1,773.5 | 1,766.3 | 3.5 | 3.9 | 179.62 | -1.2 | 159.5 | 250.2 | 244.1 | 6.14 | 40.747 | | |
| 1,900.0 | 1,897.0 | 1,871.7 | 1,863.6 | 3.7 | 4.1 | 179.79 | -1.3 | 172.0 | 269.3 | 262.8 | 6.49 | 41.525 | | |
| 2,000.0 | 1,996.8 | 1,969.8 | 1,961.0 | 3.9 | 4.4 | 179.93 | -1.4 | 184.6 | 288.4 | 281.6 | 6.83 | 42.225 | | |
| 2,100.0 | 2,096.6 | 2,068.0 | 2,058.3 | 4.1 | 4.7 | -179.94 | -1.5 | 197.1 | 307.5 | 300.3 | 7.17 | 42.858 | | |
| 2,200.0 | 2,196.4 | 2,166.2 | 2,155.7 | 4.3 | 5.0 | -179.83 | -1.7 | 209.7 | 326.5 | 319.0 | 7.52 | 43.433 | | |
| 2,300.0 | 2,296.2 | 2,264.3 | 2,253.0 | 4.5 | 5.2 | -179.73 | -1.8 | 222.2 | 345.6 | 337.8 | 7.86 | 43.958 | | |
| 2,400.0 | 2,396.0 | 2,362.5 | 2,350.4 | 4.7 | 5.5 | -179.64 | -1.9 | 234.8 | 364.7 | 356.5 | 8.21 | 44.440 | | |
| 2,500.0 | 2,495.8 | 2,460.6 | 2,447.7 | 4.9 | 5.8 | -179.56 | -2.0 | 247.3 | 383.8 | 375.2 | 8.55 | 44.882 | | |
| 2,600.0 | 2,595.6 | 2,558.8 | 2,545.1 | 5.1 | 6.1 | -179.49 | -2.1 | 259.9 | 402.9 | 394.0 | 8.90 | 45.291 | | |
| 2,700.0 | 2,695.4 | 2,657.0 | 2,642.5 | 5.4 | 6.3 | -179.43 | -2.3 | 272.4 | 422.0 | 412.7 | 9.24 | 45.669 | | |
| 2,800.0 | 2,795.2 | 2,755.1 | 2,739.8 | 5.6 | 6.6 | -179.37 | -2.4 | 285.0 | 441.1 | 431.5 | 9.58 | 46.020 | | |
| 2,900.0 | 2,895.0 | 2,853.3 | 2,837.2 | 5.8 | 6.9 | -179.31 | -2.5 | 297.5 | 460.1 | 450.2 | 9.93 | 46.346 | | |
| 3,000.0 | 2,994.7 | 2,951.4 | 2,934.5 | 6.0 | 7.2 | -179.26 | -2.6 | 310.1 | 479.2 | 469.0 | 10.27 | 46.651 | | |
| 3,100.0 | 3,094.5 | 3,049.6 | 3,031.9 | 6.2 | 7.4 | -179.21 | -2.7 | 322.6 | 498.3 | 487.7 | 10.62 | 46.936 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2F-7H-E168 - 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 | 77.76 | 7.3 | 33.6 | 34.4 | | | | | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 77.76 | 7.3 | 33.6 | 34.4 | 34.1 | 0.27 | 129.544 | | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 77.76 | 7.3 | 33.6 | 34.4 | 33.8 | 0.61 | 55.939 CC, ES | | |
| 300.0 | 300.0 | 302.0 | 302.0 | 0.5 | 0.5 | -162.67 | 7.3 | 33.6 | 35.2 | 34.2 | 0.96 | 36.536 | | |
| 400.0 | 400.0 | 401.3 | 401.3 | 0.7 | 0.7 | -163.51 | 7.3 | 34.5 | 38.6 | 37.3 | 1.31 | 29.418 | | |
| 500.0 | 499.9 | 500.0 | 500.0 | 0.8 | 0.8 | -164.25 | 7.3 | 37.1 | 45.3 | 43.7 | 1.66 | 27.323 SF | | |
| 600.0 | 599.7 | 599.0 | 598.9 | 1.0 | 1.0 | -164.79 | 7.2 | 41.4 | 55.4 | 53.4 | 2.01 | 27.602 | | |
| 700.0 | 699.5 | 697.2 | 696.9 | 1.2 | 1.2 | -178.63 | 7.2 | 47.3 | 67.8 | 65.5 | 2.35 | 28.818 | | |
| 800.0 | 799.2 | 795.0 | 794.4 | 1.4 | 1.4 | 169.81 | 7.1 | 55.0 | 81.7 | 79.0 | 2.70 | 30.275 | | |
| 900.0 | 899.0 | 892.2 | 891.2 | 1.7 | 1.6 | 171.70 | 7.1 | 64.2 | 97.2 | 94.2 | 3.04 | 31.956 | | |
| 1,000.0 | 998.8 | 988.9 | 987.3 | 1.9 | 1.9 | 173.21 | 7.0 | 75.0 | 114.5 | 111.1 | 3.39 | 33.815 | | |
| 1,100.0 | 1,098.6 | 1,085.0 | 1,082.6 | 2.1 | 2.1 | 174.42 | 6.9 | 87.3 | 133.5 | 129.7 | 3.73 | 35.799 | | |
| 1,200.0 | 1,198.4 | 1,180.5 | 1,177.0 | 2.3 | 2.4 | 175.41 | 6.8 | 101.1 | 154.1 | 150.0 | 4.07 | 37.873 | | |
| 1,300.0 | 1,298.2 | 1,275.2 | 1,270.5 | 2.5 | 2.7 | 176.23 | 6.7 | 116.4 | 176.4 | 171.9 | 4.41 | 40.013 | | |
| 1,400.0 | 1,398.0 | 1,369.6 | 1,363.4 | 2.7 | 3.0 | 176.91 | 6.6 | 133.1 | 200.2 | 195.5 | 4.75 | 42.197 | | |
| 1,500.0 | 1,497.8 | 1,466.5 | 1,458.7 | 2.9 | 3.4 | 177.47 | 6.4 | 150.9 | 224.8 | 219.7 | 5.09 | 44.182 | | |
| 1,600.0 | 1,597.6 | 1,563.5 | 1,554.0 | 3.1 | 3.7 | 177.93 | 6.3 | 168.7 | 249.3 | 243.9 | 5.43 | 45.921 | | |
| 1,700.0 | 1,697.4 | 1,660.4 | 1,649.2 | 3.3 | 4.0 | 178.30 | 6.2 | 186.5 | 273.9 | 268.1 | 5.77 | 47.458 | | |
| 1,800.0 | 1,797.2 | 1,757.3 | 1,744.5 | 3.5 | 4.4 | 178.62 | 6.0 | 204.3 | 298.4 | 292.3 | 6.11 | 48.825 | | |
| 1,900.0 | 1,897.0 | 1,854.2 | 1,839.8 | 3.7 | 4.7 | 178.88 | 5.9 | 222.1 | 323.0 | 316.5 | 6.45 | 50.049 | | |
| 2,000.0 | 1,996.8 | 1,951.2 | 1,935.1 | 3.9 | 5.1 | 179.11 | 5.8 | 239.9 | 347.6 | 340.8 | 6.79 | 51.152 | | |
| 2,100.0 | 2,096.6 | 2,048.1 | 2,030.4 | 4.1 | 5.4 | 179.31 | 5.7 | 257.8 | 372.1 | 365.0 | 7.14 | 52.149 | | |
| 2,200.0 | 2,196.4 | 2,145.0 | 2,125.6 | 4.3 | 5.8 | 179.48 | 5.5 | 275.6 | 396.7 | 389.2 | 7.48 | 53.057 | | |
| 2,300.0 | 2,296.2 | 2,241.9 | 2,220.9 | 4.5 | 6.1 | 179.63 | 5.4 | 293.4 | 421.3 | 413.5 | 7.82 | 53.886 | | |
| 2,400.0 | 2,396.0 | 2,338.9 | 2,316.2 | 4.7 | 6.5 | 179.77 | 5.3 | 311.2 | 445.9 | 437.7 | 8.16 | 54.646 | | |
| 2,500.0 | 2,495.8 | 2,435.8 | 2,411.5 | 4.9 | 6.8 | 179.89 | 5.1 | 329.0 | 470.5 | 462.0 | 8.50 | 55.345 | | |
| 2,600.0 | 2,595.6 | 2,532.7 | 2,506.7 | 5.1 | 7.2 | 180.00 | 5.0 | 346.8 | 495.1 | 486.2 | 8.84 | 55.991 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2G-7H-E168 - 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 | 90.00 | 0.0 | 39.2 | 39.2 | | | | | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 90.00 | 0.0 | 39.2 | 39.2 | 38.9 | 0.27 | 147.699 | | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 90.00 | 0.0 | 39.2 | 39.2 | 38.6 | 0.61 | 63.779 | CC, ES | |
| 300.0 | 300.0 | 301.6 | 301.6 | 0.5 | 0.5 | -150.56 | 0.0 | 39.4 | 40.2 | 39.2 | 0.96 | 41.717 | | |
| 400.0 | 400.0 | 400.8 | 400.8 | 0.7 | 0.7 | -151.78 | -0.3 | 41.1 | 44.2 | 42.9 | 1.31 | 33.698 | | |
| 500.0 | 499.9 | 500.0 | 499.9 | 0.8 | 0.8 | -153.24 | -0.9 | 44.6 | 51.5 | 49.8 | 1.66 | 30.981 | | |
| 600.0 | 599.7 | 598.2 | 598.0 | 1.0 | 1.0 | -154.61 | -1.8 | 49.6 | 62.0 | 60.0 | 2.01 | 30.825 | SF | |
| 700.0 | 699.5 | 696.3 | 695.8 | 1.2 | 1.2 | -169.25 | -3.0 | 56.3 | 75.0 | 72.7 | 2.36 | 31.787 | | |
| 800.0 | 799.2 | 793.8 | 793.0 | 1.4 | 1.4 | 178.51 | -4.5 | 64.6 | 89.7 | 87.0 | 2.71 | 33.158 | | |
| 900.0 | 899.0 | 890.8 | 889.5 | 1.7 | 1.7 | 179.92 | -6.2 | 74.4 | 106.1 | 103.0 | 3.05 | 34.780 | | |
| 1,000.0 | 998.8 | 987.2 | 985.2 | 1.9 | 1.9 | -178.90 | -8.2 | 85.8 | 124.2 | 120.8 | 3.39 | 36.575 | | |
| 1,100.0 | 1,098.6 | 1,083.0 | 1,080.1 | 2.1 | 2.2 | -177.91 | -10.5 | 98.7 | 143.9 | 140.1 | 3.74 | 38.494 | | |
| 1,200.0 | 1,198.4 | 1,178.2 | 1,174.1 | 2.3 | 2.5 | -177.06 | -13.0 | 113.1 | 165.3 | 161.2 | 4.08 | 40.506 | | |
| 1,300.0 | 1,298.2 | 1,272.7 | 1,267.3 | 2.5 | 2.8 | -176.34 | -15.8 | 128.8 | 188.2 | 183.8 | 4.42 | 42.587 | | |
| 1,400.0 | 1,398.0 | 1,366.9 | 1,359.9 | 2.7 | 3.1 | -175.93 | -18.0 | 145.9 | 212.7 | 207.9 | 4.76 | 44.698 | | |
| 1,500.0 | 1,497.8 | 1,460.4 | 1,451.6 | 2.9 | 3.5 | -175.81 | -19.5 | 164.1 | 238.4 | 233.3 | 5.09 | 46.815 | | |
| 1,600.0 | 1,597.6 | 1,553.3 | 1,542.4 | 3.1 | 3.8 | -175.89 | -20.1 | 183.5 | 265.5 | 260.1 | 5.43 | 48.935 | | |
| 1,700.0 | 1,697.4 | 1,646.0 | 1,632.8 | 3.3 | 4.2 | -176.13 | -20.0 | 204.1 | 293.9 | 288.1 | 5.76 | 51.040 | | |
| 1,800.0 | 1,797.2 | 1,741.7 | 1,726.0 | 3.5 | 4.6 | -176.39 | -19.5 | 225.8 | 322.7 | 316.6 | 6.09 | 52.949 | | |
| 1,900.0 | 1,897.0 | 1,837.4 | 1,819.3 | 3.7 | 5.0 | -176.60 | -19.1 | 247.6 | 351.5 | 345.1 | 6.43 | 54.658 | | |
| 2,000.0 | 1,996.8 | 1,933.2 | 1,912.5 | 3.9 | 5.4 | -176.79 | -18.7 | 269.3 | 380.4 | 373.6 | 6.77 | 56.196 | | |
| 2,100.0 | 2,096.6 | 2,028.9 | 2,005.7 | 4.1 | 5.8 | -176.94 | -18.2 | 291.0 | 409.2 | 402.1 | 7.11 | 57.587 | | |
| 2,200.0 | 2,196.4 | 2,124.7 | 2,099.0 | 4.3 | 6.2 | -177.08 | -17.8 | 312.7 | 438.1 | 430.7 | 7.44 | 58.852 | | |
| 2,300.0 | 2,296.2 | 2,220.4 | 2,192.2 | 4.5 | 6.7 | -177.20 | -17.4 | 334.5 | 467.0 | 459.2 | 7.78 | 60.007 | | |
| 2,400.0 | 2,396.0 | 2,316.1 | 2,285.5 | 4.7 | 7.1 | -177.30 | -17.0 | 356.2 | 495.8 | 487.7 | 8.12 | 61.066 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Becky 2H-7H-E168 - 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 | 80.76 | 7.3 | 44.8 | 45.4 | | | | | |
| 100.0 | 100.0 | 102.0 | 102.0 | 0.1 | 0.1 | 80.76 | 7.3 | 44.8 | 45.4 | 45.1 | 0.27 | 171.019 | | |
| 166.0 | 166.0 | 168.0 | 168.0 | 0.2 | 0.2 | 80.76 | 7.3 | 44.8 | 45.4 | 44.9 | 0.50 | 91.540 CC | | |
| 200.0 | 200.0 | 202.0 | 202.0 | 0.3 | 0.3 | 80.76 | 7.3 | 44.8 | 45.4 | 44.8 | 0.61 | 73.851 ES | | |
| 300.0 | 300.0 | 301.2 | 301.2 | 0.5 | 0.5 | -159.43 | 7.3 | 45.7 | 47.1 | 46.1 | 0.96 | 48.932 | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.7 | 0.7 | -159.95 | 7.3 | 48.3 | 52.1 | 50.8 | 1.31 | 39.804 | | |
| 500.0 | 499.9 | 498.9 | 498.8 | 0.8 | 0.8 | -160.62 | 7.3 | 52.6 | 60.5 | 58.8 | 1.66 | 36.501 | | |
| 600.0 | 599.7 | 597.1 | 596.8 | 1.0 | 1.0 | -161.30 | 7.3 | 58.5 | 72.2 | 70.2 | 2.01 | 36.010 SF | | |
| 700.0 | 699.5 | 694.8 | 694.1 | 1.2 | 1.3 | -175.58 | 7.3 | 66.1 | 86.3 | 84.0 | 2.35 | 36.715 | | |
| 800.0 | 799.2 | 791.9 | 790.9 | 1.4 | 1.5 | 172.21 | 7.3 | 75.3 | 102.0 | 99.3 | 2.70 | 37.838 | | |
| 900.0 | 899.0 | 888.6 | 886.9 | 1.7 | 1.7 | 173.54 | 7.3 | 86.1 | 119.3 | 116.2 | 3.04 | 39.263 | | |
| 1,000.0 | 998.8 | 984.6 | 982.1 | 1.9 | 2.0 | 174.63 | 7.3 | 98.4 | 138.2 | 134.9 | 3.38 | 40.913 | | |
| 1,100.0 | 1,098.6 | 1,079.9 | 1,076.5 | 2.1 | 2.3 | 175.52 | 7.3 | 112.2 | 158.9 | 155.2 | 3.72 | 42.722 | | |
| 1,200.0 | 1,198.4 | 1,174.6 | 1,169.9 | 2.3 | 2.6 | 176.26 | 7.4 | 127.5 | 181.1 | 177.1 | 4.06 | 44.648 | | |
| 1,300.0 | 1,298.2 | 1,268.6 | 1,262.4 | 2.5 | 2.9 | 176.88 | 7.4 | 144.1 | 205.0 | 200.6 | 4.39 | 46.662 | | |
| 1,400.0 | 1,398.0 | 1,361.7 | 1,353.8 | 2.7 | 3.2 | 177.40 | 7.4 | 162.1 | 230.5 | 225.8 | 4.73 | 48.743 | | |
| 1,500.0 | 1,497.8 | 1,454.0 | 1,444.0 | 2.9 | 3.6 | 177.84 | 7.4 | 181.5 | 257.6 | 252.5 | 5.06 | 50.876 | | |
| 1,600.0 | 1,597.6 | 1,545.5 | 1,533.2 | 3.1 | 4.0 | 178.23 | 7.4 | 202.0 | 286.2 | 280.8 | 5.40 | 53.050 | | |
| 1,700.0 | 1,697.4 | 1,636.1 | 1,621.1 | 3.3 | 4.4 | 178.56 | 7.5 | 223.8 | 316.3 | 310.6 | 5.73 | 55.256 | | |
| 1,800.0 | 1,797.2 | 1,725.8 | 1,707.8 | 3.5 | 4.8 | 178.84 | 7.5 | 246.7 | 348.0 | 341.9 | 6.05 | 57.488 | | |
| 1,900.0 | 1,897.0 | 1,814.5 | 1,793.2 | 3.7 | 5.3 | 179.10 | 7.5 | 270.7 | 381.1 | 374.7 | 6.38 | 59.740 | | |
| 2,000.0 | 1,996.8 | 1,906.6 | 1,881.6 | 3.9 | 5.8 | 179.32 | 7.5 | 296.7 | 415.3 | 408.6 | 6.71 | 61.887 | | |
| 2,100.0 | 2,096.6 | 2,000.5 | 1,971.7 | 4.1 | 6.2 | 179.52 | 7.5 | 323.3 | 449.6 | 442.6 | 7.05 | 63.816 | | |
| 2,200.0 | 2,196.4 | 2,094.5 | 2,061.8 | 4.3 | 6.7 | 179.69 | 7.6 | 349.8 | 483.9 | 476.5 | 7.38 | 65.573 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2A-7H-E168 - 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 | -90.50 | -0.6 | -66.8 | 66.8 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -90.50 | -0.6 | -66.8 | 66.8 | 66.5 | 0.26 | 256.345 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -90.50 | -0.6 | -66.8 | 66.8 | 66.2 | 0.61 | 109.626 | | |
| 300.0 | 300.0 | 298.2 | 298.2 | 0.5 | 0.5 | 30.42 | 0.1 | -67.3 | 66.6 | 65.6 | 0.96 | 69.526 | | |
| 400.0 | 400.0 | 397.4 | 397.4 | 0.7 | 0.7 | 33.22 | 2.0 | -69.0 | 66.1 | 64.8 | 1.31 | 50.492 | | |
| 500.0 | 499.9 | 496.4 | 496.3 | 0.8 | 0.8 | 37.95 | 5.2 | -71.8 | 65.7 | 64.0 | 1.67 | 39.405 | | |
| 530.9 | 530.7 | 527.0 | 526.8 | 0.9 | 0.9 | 39.80 | 6.4 | -72.9 | 65.7 | 63.9 | 1.78 | 36.874 CC | | |
| 600.0 | 599.7 | 595.2 | 594.9 | 1.0 | 1.0 | 44.58 | 9.7 | -75.7 | 65.9 | 63.9 | 2.03 | 32.386 ES | | |
| 700.0 | 699.5 | 693.9 | 693.3 | 1.2 | 1.3 | 37.43 | 15.4 | -80.8 | 67.6 | 65.2 | 2.40 | 28.126 | | |
| 800.0 | 799.2 | 792.5 | 791.4 | 1.4 | 1.5 | 30.13 | 22.5 | -86.9 | 70.9 | 68.1 | 2.77 | 25.622 | | |
| 900.0 | 899.0 | 891.3 | 889.6 | 1.7 | 1.7 | 35.50 | 30.7 | -94.1 | 76.1 | 72.9 | 3.13 | 24.290 | | |
| 1,000.0 | 998.8 | 990.9 | 988.6 | 1.9 | 2.0 | 40.25 | 39.3 | -101.6 | 82.2 | 78.7 | 3.50 | 23.500 | | |
| 1,100.0 | 1,098.6 | 1,090.5 | 1,087.5 | 2.1 | 2.2 | 44.31 | 47.9 | -109.1 | 88.9 | 85.0 | 3.87 | 22.973 | | |
| 1,200.0 | 1,198.4 | 1,190.1 | 1,186.4 | 2.3 | 2.5 | 47.79 | 56.5 | -116.7 | 95.9 | 91.6 | 4.24 | 22.612 | | |
| 1,300.0 | 1,298.2 | 1,289.7 | 1,285.4 | 2.5 | 2.7 | 50.79 | 65.2 | -124.2 | 103.2 | 98.6 | 4.62 | 22.358 | | |
| 1,400.0 | 1,398.0 | 1,389.3 | 1,384.3 | 2.7 | 3.0 | 53.39 | 73.8 | -131.7 | 110.8 | 105.8 | 5.00 | 22.175 | | |
| 1,500.0 | 1,497.8 | 1,488.9 | 1,483.3 | 2.9 | 3.3 | 55.65 | 82.4 | -139.2 | 118.5 | 113.2 | 5.38 | 22.041 | | |
| 1,600.0 | 1,597.6 | 1,588.5 | 1,582.2 | 3.1 | 3.5 | 57.63 | 91.0 | -146.7 | 126.5 | 120.7 | 5.76 | 21.941 | | |
| 1,700.0 | 1,697.4 | 1,688.1 | 1,681.1 | 3.3 | 3.8 | 59.38 | 99.6 | -154.2 | 134.5 | 128.4 | 6.15 | 21.864 | | |
| 1,800.0 | 1,797.2 | 1,787.7 | 1,780.1 | 3.5 | 4.0 | 60.93 | 108.2 | -161.7 | 142.7 | 136.2 | 6.55 | 21.805 | | |
| 1,900.0 | 1,897.0 | 1,887.3 | 1,879.0 | 3.7 | 4.3 | 62.30 | 116.8 | -169.3 | 151.0 | 144.0 | 6.94 | 21.759 | | |
| 2,000.0 | 1,996.8 | 1,986.8 | 1,977.9 | 3.9 | 4.6 | 63.54 | 125.4 | -176.8 | 159.3 | 152.0 | 7.33 | 21.723 | | |
| 2,100.0 | 2,096.6 | 2,086.4 | 2,076.9 | 4.1 | 4.8 | 64.65 | 134.0 | -184.3 | 167.7 | 160.0 | 7.73 | 21.694 | | |
| 2,200.0 | 2,196.4 | 2,186.0 | 2,175.8 | 4.3 | 5.1 | 65.66 | 142.6 | -191.8 | 176.2 | 168.1 | 8.13 | 21.672 | | |
| 2,300.0 | 2,296.2 | 2,285.6 | 2,274.8 | 4.5 | 5.4 | 66.57 | 151.2 | -199.3 | 184.7 | 176.2 | 8.53 | 21.653 | | |
| 2,400.0 | 2,396.0 | 2,385.2 | 2,373.7 | 4.7 | 5.6 | 67.40 | 159.8 | -206.8 | 193.3 | 184.4 | 8.93 | 21.639 | | |
| 2,500.0 | 2,495.8 | 2,484.8 | 2,472.6 | 4.9 | 5.9 | 68.17 | 168.4 | -214.4 | 201.9 | 192.5 | 9.33 | 21.627 | | |
| 2,600.0 | 2,595.6 | 2,584.4 | 2,571.6 | 5.1 | 6.1 | 68.87 | 177.0 | -221.9 | 210.5 | 200.8 | 9.74 | 21.617 | | |
| 2,700.0 | 2,695.4 | 2,684.0 | 2,670.5 | 5.4 | 6.4 | 69.51 | 185.6 | -229.4 | 219.2 | 209.0 | 10.14 | 21.610 | | |
| 2,800.0 | 2,795.2 | 2,783.6 | 2,769.5 | 5.6 | 6.7 | 70.11 | 194.3 | -236.9 | 227.8 | 217.3 | 10.55 | 21.604 | | |
| 2,900.0 | 2,895.0 | 2,883.2 | 2,868.4 | 5.8 | 6.9 | 70.66 | 202.9 | -244.4 | 236.6 | 225.6 | 10.95 | 21.599 | | |
| 3,000.0 | 2,994.7 | 2,982.8 | 2,967.3 | 6.0 | 7.2 | 71.17 | 211.5 | -251.9 | 245.3 | 233.9 | 11.36 | 21.595 | | |
| 3,100.0 | 3,094.5 | 3,082.4 | 3,066.3 | 6.2 | 7.5 | 71.65 | 220.1 | -259.4 | 254.0 | 242.3 | 11.76 | 21.592 | | |
| 3,200.0 | 3,194.3 | 3,182.0 | 3,165.2 | 6.4 | 7.7 | 72.09 | 228.7 | -267.0 | 262.8 | 250.6 | 12.17 | 21.590 | | |
| 3,300.0 | 3,294.1 | 3,281.6 | 3,264.1 | 6.6 | 8.0 | 72.51 | 237.3 | -274.5 | 271.6 | 259.0 | 12.58 | 21.589 | | |
| 3,400.0 | 3,393.9 | 3,381.2 | 3,363.1 | 6.8 | 8.3 | 72.90 | 245.9 | -282.0 | 280.3 | 267.4 | 12.99 | 21.588 | | |
| 3,500.0 | 3,493.7 | 3,480.8 | 3,462.0 | 7.0 | 8.5 | 73.27 | 254.5 | -289.5 | 289.1 | 275.8 | 13.39 | 21.587 | | |
| 3,600.0 | 3,593.5 | 3,580.4 | 3,561.0 | 7.2 | 8.8 | 73.61 | 263.1 | -297.0 | 298.0 | 284.2 | 13.80 | 21.587 | | |
| 3,700.0 | 3,693.3 | 3,680.0 | 3,659.9 | 7.4 | 9.1 | 73.94 | 271.7 | -304.5 | 306.8 | 292.6 | 14.21 | 21.587 | | |
| 3,800.0 | 3,793.1 | 3,779.6 | 3,758.8 | 7.6 | 9.3 | 74.25 | 280.3 | -312.1 | 315.6 | 301.0 | 14.62 | 21.587 | | |
| 3,900.0 | 3,892.9 | 3,879.2 | 3,857.8 | 7.8 | 9.6 | 74.54 | 288.9 | -319.6 | 324.5 | 309.4 | 15.03 | 21.588 | | |
| 4,000.0 | 3,992.7 | 3,978.8 | 3,956.7 | 8.0 | 9.8 | 74.81 | 297.5 | -327.1 | 333.3 | 317.9 | 15.44 | 21.589 | | |
| 4,100.0 | 4,092.5 | 4,078.4 | 4,055.6 | 8.3 | 10.1 | 75.07 | 306.1 | -334.6 | 342.2 | 326.3 | 15.85 | 21.590 | | |
| 4,200.0 | 4,192.3 | 4,177.9 | 4,154.6 | 8.5 | 10.4 | 75.32 | 314.7 | -342.1 | 351.0 | 334.8 | 16.26 | 21.591 | | |
| 4,300.0 | 4,292.1 | 4,277.5 | 4,253.5 | 8.7 | 10.6 | 75.56 | 323.4 | -349.6 | 359.9 | 343.2 | 16.67 | 21.592 | | |
| 4,400.0 | 4,391.9 | 4,377.1 | 4,352.5 | 8.9 | 10.9 | 75.78 | 332.0 | -357.1 | 368.8 | 351.7 | 17.08 | 21.593 | | |
| 4,500.0 | 4,491.7 | 4,476.7 | 4,451.4 | 9.1 | 11.2 | 75.99 | 340.6 | -364.7 | 377.6 | 360.1 | 17.49 | 21.594 | | |
| 4,600.0 | 4,591.5 | 4,576.3 | 4,550.3 | 9.3 | 11.4 | 76.20 | 349.2 | -372.2 | 386.5 | 368.6 | 17.90 | 21.596 | | |
| 4,700.0 | 4,691.3 | 4,675.9 | 4,649.3 | 9.5 | 11.7 | 76.39 | 357.8 | -379.7 | 395.4 | 377.1 | 18.31 | 21.597 | | |
| 4,800.0 | 4,791.1 | 4,775.5 | 4,748.2 | 9.7 | 12.0 | 76.58 | 366.4 | -387.2 | 404.3 | 385.6 | 18.72 | 21.598 | | |
| 4,900.0 | 4,890.9 | 4,875.1 | 4,847.1 | 9.9 | 12.2 | 76.76 | 375.0 | -394.7 | 413.2 | 394.1 | 19.13 | 21.600 | | |
| 5,000.0 | 4,990.7 | 4,974.7 | 4,946.1 | 10.1 | 12.5 | 76.93 | 383.6 | -402.2 | 422.1 | 402.6 | 19.54 | 21.601 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2A-7H-E168 - 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 | | 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 | | |
| 5,100.0 | 5,090.5 | 5,074.3 | 5,045.0 | 10.3 | 12.8 | 77.09 | 392.2 | -409.8 | 431.0 | 411.0 | 19.95 | 21.603 | | |
| 5,200.0 | 5,190.3 | 5,173.9 | 5,144.0 | 10.5 | 13.0 | 77.25 | 400.8 | -417.3 | 439.9 | 419.5 | 20.36 | 21.605 | | |
| 5,300.0 | 5,290.0 | 5,273.5 | 5,242.9 | 10.7 | 13.3 | 77.40 | 409.4 | -424.8 | 448.8 | 428.0 | 20.77 | 21.606 | | |
| 5,400.0 | 5,389.8 | 5,373.1 | 5,341.8 | 10.9 | 13.6 | 77.54 | 418.0 | -432.3 | 457.7 | 436.5 | 21.18 | 21.608 | | |
| 5,500.0 | 5,489.6 | 5,472.7 | 5,440.8 | 11.2 | 13.8 | 77.68 | 426.6 | -439.8 | 466.6 | 445.1 | 21.59 | 21.609 | | |
| 5,600.0 | 5,589.4 | 5,572.3 | 5,539.7 | 11.4 | 14.1 | 77.82 | 435.2 | -447.3 | 475.6 | 453.6 | 22.01 | 21.611 | | |
| 5,700.0 | 5,689.2 | 5,671.9 | 5,638.6 | 11.6 | 14.3 | 77.94 | 443.9 | -454.8 | 484.5 | 462.1 | 22.42 | 21.612 | | |
| 5,800.0 | 5,789.0 | 5,771.5 | 5,737.6 | 11.8 | 14.6 | 78.07 | 452.5 | -462.4 | 493.4 | 470.6 | 22.83 | 21.614 | | |
| 7,400.0 | 7,384.3 | 8,145.2 | 7,759.0 | 15.1 | 17.1 | -107.31 | -10.7 | -615.9 | 412.2 | 383.9 | 28.32 | 14.556 | | |
| 7,500.0 | 7,478.5 | 8,093.5 | 7,757.8 | 15.3 | 17.1 | -115.32 | 41.0 | -615.8 | 324.8 | 296.3 | 28.51 | 11.393 | | |
| 7,600.0 | 7,565.6 | 8,028.0 | 7,749.8 | 15.6 | 17.0 | -111.83 | 106.1 | -615.2 | 244.7 | 216.4 | 28.36 | 8.629 | | |
| 7,700.0 | 7,643.0 | 7,968.6 | 7,736.2 | 15.9 | 17.1 | -103.44 | 163.8 | -614.2 | 178.8 | 150.4 | 28.41 | 6.295 | | |
| 7,800.0 | 7,708.3 | 7,912.2 | 7,717.8 | 16.4 | 17.1 | -89.29 | 217.1 | -612.8 | 142.7 | 114.1 | 28.61 | 4.987 | | |
| 7,828.8 | 7,724.6 | 7,896.3 | 7,711.7 | 16.6 | 17.2 | -84.22 | 231.8 | -612.3 | 140.6 | 112.0 | 28.60 | 4.917 SF | | |
| 7,900.0 | 7,759.5 | 7,857.5 | 7,695.1 | 17.0 | 17.2 | -70.66 | 266.8 | -611.1 | 152.1 | 124.1 | 28.03 | 5.426 | | |
| 8,000.0 | 7,795.1 | 7,800.0 | 7,666.2 | 17.8 | 17.4 | -51.52 | 316.5 | -608.9 | 195.3 | 169.4 | 25.88 | 7.546 | | |
| 8,100.0 | 7,814.0 | 7,750.0 | 7,637.2 | 18.7 | 17.5 | -38.19 | 357.1 | -606.7 | 250.6 | 226.9 | 23.75 | 10.551 | | |
| 8,200.0 | 7,817.0 | 7,700.0 | 7,604.8 | 19.7 | 17.7 | -30.25 | 395.0 | -604.2 | 308.5 | 285.9 | 22.64 | 13.628 | | |
| 8,300.0 | 7,817.0 | 7,650.0 | 7,569.2 | 20.9 | 17.9 | -25.90 | 430.0 | -601.5 | 373.4 | 351.4 | 21.99 | 16.979 | | |
| 8,400.0 | 7,817.0 | 7,615.3 | 7,542.7 | 22.1 | 18.0 | -23.26 | 452.4 | -599.5 | 445.0 | 423.2 | 21.75 | 20.453 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2B-7H-E168 - 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 | -85.01 | 5.4 | -61.7 | 62.0 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -85.01 | 5.4 | -61.7 | 62.0 | 61.7 | 0.26 | 237.928 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -85.01 | 5.4 | -61.7 | 62.0 | 61.4 | 0.61 | 101.750 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 35.47 | 5.4 | -61.7 | 61.3 | 60.3 | 0.96 | 63.921 | | |
| 400.0 | 400.0 | 398.6 | 398.5 | 0.7 | 0.7 | 37.69 | 6.2 | -62.0 | 59.5 | 58.2 | 1.31 | 45.440 | | |
| 500.0 | 499.9 | 498.0 | 497.9 | 0.8 | 0.8 | 42.72 | 8.7 | -62.7 | 57.3 | 55.6 | 1.67 | 34.371 | | |
| 600.0 | 599.7 | 597.1 | 596.9 | 1.0 | 1.0 | 50.88 | 12.8 | -63.9 | 55.4 | 53.4 | 2.04 | 27.191 | | |
| 668.8 | 668.3 | 665.1 | 664.9 | 1.2 | 1.1 | 48.04 | 16.6 | -64.9 | 55.0 | 52.7 | 2.30 | 23.926 CC | | |
| 700.0 | 699.5 | 696.0 | 695.7 | 1.2 | 1.2 | 46.41 | 18.5 | -65.5 | 55.1 | 52.7 | 2.42 | 22.797 ES | | |
| 800.0 | 799.2 | 794.8 | 794.2 | 1.4 | 1.4 | 42.50 | 25.9 | -67.6 | 56.6 | 53.8 | 2.79 | 20.246 | | |
| 900.0 | 899.0 | 894.1 | 893.1 | 1.7 | 1.6 | 51.37 | 34.5 | -70.1 | 60.0 | 56.9 | 3.17 | 18.936 | | |
| 1,000.0 | 998.8 | 993.7 | 992.3 | 1.9 | 1.9 | 59.14 | 43.1 | -72.5 | 64.8 | 61.3 | 3.55 | 18.284 | | |
| 1,100.0 | 1,098.6 | 1,093.2 | 1,091.4 | 2.1 | 2.1 | 65.74 | 51.7 | -75.0 | 70.7 | 66.7 | 3.92 | 18.020 | | |
| 1,200.0 | 1,198.4 | 1,192.7 | 1,190.5 | 2.3 | 2.3 | 71.28 | 60.4 | -77.5 | 77.3 | 73.0 | 4.30 | 17.981 | | |
| 1,300.0 | 1,298.2 | 1,292.2 | 1,289.6 | 2.5 | 2.5 | 75.92 | 69.0 | -79.9 | 84.5 | 79.8 | 4.68 | 18.068 | | |
| 1,400.0 | 1,398.0 | 1,391.8 | 1,388.7 | 2.7 | 2.8 | 79.81 | 77.6 | -82.4 | 92.2 | 87.1 | 5.06 | 18.226 | | |
| 1,500.0 | 1,497.8 | 1,491.3 | 1,487.8 | 2.9 | 3.0 | 83.08 | 86.2 | -84.8 | 100.2 | 94.8 | 5.44 | 18.418 | | |
| 1,600.0 | 1,597.6 | 1,590.8 | 1,587.0 | 3.1 | 3.2 | 85.87 | 94.9 | -87.3 | 108.6 | 102.7 | 5.83 | 18.625 | | |
| 1,700.0 | 1,697.4 | 1,690.3 | 1,686.1 | 3.3 | 3.4 | 88.25 | 103.5 | -89.8 | 117.1 | 110.9 | 6.22 | 18.836 | | |
| 1,800.0 | 1,797.2 | 1,789.9 | 1,785.2 | 3.5 | 3.7 | 90.31 | 112.1 | -92.2 | 125.8 | 119.2 | 6.61 | 19.043 | | |
| 1,900.0 | 1,897.0 | 1,889.4 | 1,884.3 | 3.7 | 3.9 | 92.10 | 120.7 | -94.7 | 134.7 | 127.7 | 7.00 | 19.244 | | |
| 2,000.0 | 1,996.8 | 1,988.9 | 1,983.4 | 3.9 | 4.1 | 93.67 | 129.3 | -97.2 | 143.6 | 136.2 | 7.39 | 19.435 | | |
| 2,100.0 | 2,096.6 | 2,088.4 | 2,082.6 | 4.1 | 4.4 | 95.05 | 138.0 | -99.6 | 152.7 | 144.9 | 7.78 | 19.617 | | |
| 2,200.0 | 2,196.4 | 2,188.0 | 2,181.7 | 4.3 | 4.6 | 96.28 | 146.6 | -102.1 | 161.8 | 153.7 | 8.18 | 19.788 | | |
| 2,300.0 | 2,296.2 | 2,287.5 | 2,280.8 | 4.5 | 4.8 | 97.38 | 155.2 | -104.6 | 171.1 | 162.5 | 8.57 | 19.950 | | |
| 2,400.0 | 2,396.0 | 2,387.0 | 2,379.9 | 4.7 | 5.1 | 98.36 | 163.8 | -107.0 | 180.3 | 171.3 | 8.97 | 20.102 | | |
| 2,500.0 | 2,495.8 | 2,486.5 | 2,479.0 | 4.9 | 5.3 | 99.25 | 172.5 | -109.5 | 189.6 | 180.3 | 9.37 | 20.246 | | |
| 2,600.0 | 2,595.6 | 2,586.1 | 2,578.2 | 5.1 | 5.5 | 100.05 | 181.1 | -111.9 | 199.0 | 189.2 | 9.76 | 20.381 | | |
| 2,700.0 | 2,695.4 | 2,685.6 | 2,677.3 | 5.4 | 5.8 | 100.78 | 189.7 | -114.4 | 208.4 | 198.2 | 10.16 | 20.508 | | |
| 2,800.0 | 2,795.2 | 2,785.1 | 2,776.4 | 5.6 | 6.0 | 101.45 | 198.3 | -116.9 | 217.8 | 207.2 | 10.56 | 20.627 | | |
| 2,900.0 | 2,895.0 | 2,884.6 | 2,875.5 | 5.8 | 6.2 | 102.07 | 207.0 | -119.3 | 227.2 | 216.3 | 10.96 | 20.740 | | |
| 3,000.0 | 2,994.7 | 2,984.2 | 2,974.6 | 6.0 | 6.5 | 102.63 | 215.6 | -121.8 | 236.7 | 225.4 | 11.35 | 20.847 | | |
| 3,100.0 | 3,094.5 | 3,083.7 | 3,073.8 | 6.2 | 6.7 | 103.15 | 224.2 | -124.3 | 246.2 | 234.4 | 11.75 | 20.948 | | |
| 3,200.0 | 3,194.3 | 3,183.2 | 3,172.9 | 6.4 | 6.9 | 103.63 | 232.8 | -126.7 | 255.7 | 243.6 | 12.15 | 21.043 | | |
| 3,300.0 | 3,294.1 | 3,282.7 | 3,272.0 | 6.6 | 7.2 | 104.08 | 241.4 | -129.2 | 265.2 | 252.7 | 12.55 | 21.133 | | |
| 3,400.0 | 3,393.9 | 3,382.3 | 3,371.1 | 6.8 | 7.4 | 104.50 | 250.1 | -131.7 | 274.8 | 261.8 | 12.95 | 21.219 | | |
| 3,500.0 | 3,493.7 | 3,481.8 | 3,470.2 | 7.0 | 7.6 | 104.89 | 258.7 | -134.1 | 284.3 | 271.0 | 13.35 | 21.300 | | |
| 3,600.0 | 3,593.5 | 3,581.3 | 3,569.4 | 7.2 | 7.9 | 105.25 | 267.3 | -136.6 | 293.9 | 280.2 | 13.75 | 21.377 | | |
| 3,700.0 | 3,693.3 | 3,680.8 | 3,668.5 | 7.4 | 8.1 | 105.59 | 275.9 | -139.1 | 303.5 | 289.3 | 14.15 | 21.451 | | |
| 3,800.0 | 3,793.1 | 3,780.4 | 3,767.6 | 7.6 | 8.3 | 105.91 | 284.6 | -141.5 | 313.1 | 298.5 | 14.55 | 21.521 | | |
| 3,900.0 | 3,892.9 | 3,879.9 | 3,866.7 | 7.8 | 8.6 | 106.21 | 293.2 | -144.0 | 322.7 | 307.7 | 14.95 | 21.587 | | |
| 4,000.0 | 3,992.7 | 3,979.4 | 3,965.8 | 8.0 | 8.8 | 106.49 | 301.8 | -146.4 | 332.3 | 316.9 | 15.35 | 21.651 | | |
| 4,100.0 | 4,092.5 | 4,078.9 | 4,065.0 | 8.3 | 9.0 | 106.76 | 310.4 | -148.9 | 341.9 | 326.1 | 15.75 | 21.711 | | |
| 4,200.0 | 4,192.3 | 4,178.5 | 4,164.1 | 8.5 | 9.3 | 107.01 | 319.1 | -151.4 | 351.5 | 335.4 | 16.15 | 21.769 | | |
| 4,300.0 | 4,292.1 | 4,278.0 | 4,263.2 | 8.7 | 9.5 | 107.25 | 327.7 | -153.8 | 361.1 | 344.6 | 16.55 | 21.825 | | |
| 4,400.0 | 4,391.9 | 4,377.5 | 4,362.3 | 8.9 | 9.7 | 107.48 | 336.3 | -156.3 | 370.8 | 353.8 | 16.95 | 21.878 | | |
| 4,500.0 | 4,491.7 | 4,477.0 | 4,461.4 | 9.1 | 10.0 | 107.69 | 344.9 | -158.8 | 380.4 | 363.1 | 17.35 | 21.929 | | |
| 4,600.0 | 4,591.5 | 4,576.6 | 4,560.6 | 9.3 | 10.2 | 107.90 | 353.5 | -161.2 | 390.0 | 372.3 | 17.75 | 21.978 | | |
| 4,700.0 | 4,691.3 | 4,676.1 | 4,659.7 | 9.5 | 10.4 | 108.09 | 362.2 | -163.7 | 399.7 | 381.5 | 18.15 | 22.025 | | |
| 4,800.0 | 4,791.1 | 4,775.6 | 4,758.8 | 9.7 | 10.7 | 108.28 | 370.8 | -166.2 | 409.3 | 390.8 | 18.55 | 22.070 | | |
| 4,900.0 | 4,890.9 | 4,875.1 | 4,857.9 | 9.9 | 10.9 | 108.46 | 379.4 | -168.6 | 419.0 | 400.0 | 18.95 | 22.113 | | |
| 5,000.0 | 4,990.7 | 4,974.7 | 4,957.0 | 10.1 | 11.1 | 108.62 | 388.0 | -171.1 | 428.7 | 409.3 | 19.35 | 22.155 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2B-7H-E168 - 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 | 5,090.5 | 5,074.2 | 5,056.2 | 10.3 | 11.4 | 108.79 | 396.7 | -173.6 | 438.3 | 418.6 | 19.75 | 22.195 | | |
| 5,200.0 | 5,190.3 | 5,173.7 | 5,155.3 | 10.5 | 11.6 | 108.94 | 405.3 | -176.0 | 448.0 | 427.8 | 20.15 | 22.234 | | |
| 5,300.0 | 5,290.0 | 5,273.2 | 5,254.4 | 10.7 | 11.8 | 109.09 | 413.9 | -178.5 | 457.7 | 437.1 | 20.55 | 22.271 | | |
| 5,400.0 | 5,389.8 | 5,372.8 | 5,353.5 | 10.9 | 12.1 | 109.23 | 422.5 | -180.9 | 467.3 | 446.4 | 20.95 | 22.307 | | |
| 5,500.0 | 5,489.6 | 5,472.3 | 5,452.6 | 11.2 | 12.3 | 109.37 | 431.2 | -183.4 | 477.0 | 455.7 | 21.35 | 22.342 | | |
| 5,600.0 | 5,589.4 | 5,571.8 | 5,551.8 | 11.4 | 12.5 | 109.50 | 439.8 | -185.9 | 486.7 | 464.9 | 21.75 | 22.375 | | |
| 5,700.0 | 5,689.2 | 5,671.3 | 5,650.9 | 11.6 | 12.8 | 109.62 | 448.4 | -188.3 | 496.4 | 474.2 | 22.15 | 22.408 | | |
| 7,400.0 | 7,384.3 | 8,130.3 | 7,759.0 | 15.1 | 14.5 | 126.52 | -10.7 | -240.8 | 428.2 | 400.8 | 27.32 | 15.671 | | |
| 7,500.0 | 7,478.5 | 8,083.8 | 7,758.3 | 15.3 | 14.4 | 122.32 | 35.8 | -240.7 | 352.1 | 325.0 | 27.08 | 13.004 | | |
| 7,600.0 | 7,565.6 | 8,019.0 | 7,751.3 | 15.6 | 14.4 | 114.52 | 100.3 | -240.6 | 289.1 | 262.2 | 26.88 | 10.753 | | |
| 7,700.0 | 7,643.0 | 7,959.7 | 7,738.7 | 15.9 | 14.4 | 105.56 | 158.1 | -240.2 | 246.2 | 218.9 | 27.30 | 9.017 | | |
| 7,798.1 | 7,707.2 | 7,904.4 | 7,721.5 | 16.4 | 14.5 | 94.69 | 210.7 | -239.8 | 231.4 | 203.1 | 28.30 | 8.175 | | |
| 7,800.0 | 7,708.3 | 7,903.3 | 7,721.1 | 16.4 | 14.5 | 94.47 | 211.7 | -239.8 | 231.4 | 203.1 | 28.32 | 8.169 SF | | |
| 7,900.0 | 7,759.5 | 7,850.0 | 7,699.8 | 17.0 | 14.6 | 81.94 | 260.5 | -239.3 | 245.8 | 216.5 | 29.27 | 8.396 | | |
| 8,000.0 | 7,795.1 | 7,800.0 | 7,675.7 | 17.8 | 14.8 | 69.52 | 304.4 | -238.7 | 280.8 | 251.6 | 29.28 | 9.592 | | |
| 8,100.0 | 7,814.0 | 7,741.8 | 7,643.1 | 18.7 | 15.0 | 57.33 | 352.4 | -237.9 | 326.1 | 298.1 | 27.97 | 11.657 | | |
| 8,200.0 | 7,817.0 | 7,689.9 | 7,609.9 | 19.7 | 15.2 | 49.80 | 392.4 | -237.0 | 375.3 | 348.4 | 26.89 | 13.954 | | |
| 8,300.0 | 7,817.0 | 7,650.0 | 7,582.1 | 20.9 | 15.3 | 46.33 | 420.9 | -236.4 | 432.4 | 405.4 | 26.99 | 16.023 | | |
| 8,400.0 | 7,817.0 | 7,600.0 | 7,544.5 | 22.1 | 15.6 | 42.24 | 453.9 | -235.4 | 497.2 | 470.4 | 26.79 | 18.559 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2C-7H-E168 - 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 | | 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 | -90.64 | -0.6 | -56.8 | 56.8 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -90.64 | -0.6 | -56.8 | 56.8 | 56.5 | 0.26 | 217.960 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -90.64 | -0.6 | -56.8 | 56.8 | 56.2 | 0.61 | 93.211 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 29.81 | -0.6 | -56.8 | 56.0 | 55.1 | 0.96 | 58.452 | | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.7 | 0.7 | 31.20 | -0.6 | -56.8 | 53.8 | 52.5 | 1.31 | 41.084 | | |
| 500.0 | 499.9 | 499.0 | 499.0 | 0.8 | 0.8 | 34.78 | 0.2 | -56.5 | 49.9 | 48.2 | 1.66 | 30.017 | | |
| 600.0 | 599.7 | 598.8 | 598.8 | 1.0 | 1.0 | 42.54 | 2.7 | -55.8 | 44.8 | 42.8 | 2.03 | 22.079 | | |
| 700.0 | 699.5 | 698.3 | 698.1 | 1.2 | 1.2 | 40.05 | 6.8 | -54.6 | 40.0 | 37.5 | 2.41 | 16.591 | | |
| 800.0 | 799.2 | 797.6 | 797.2 | 1.4 | 1.4 | 41.50 | 12.6 | -53.0 | 36.7 | 33.9 | 2.80 | 13.094 | | |
| 849.3 | 848.4 | 846.4 | 845.9 | 1.5 | 1.5 | 50.03 | 16.1 | -52.0 | 36.2 | 33.2 | 3.00 | 12.051 CC, ES | | |
| 900.0 | 899.0 | 896.6 | 895.9 | 1.7 | 1.6 | 59.35 | 20.0 | -50.9 | 36.8 | 33.6 | 3.20 | 11.487 SF | | |
| 1,000.0 | 998.8 | 995.6 | 994.6 | 1.9 | 1.8 | 76.57 | 28.7 | -48.4 | 41.4 | 37.8 | 3.58 | 11.573 | | |
| 1,100.0 | 1,098.6 | 1,094.8 | 1,093.4 | 2.1 | 2.0 | 89.50 | 37.5 | -45.9 | 49.0 | 45.1 | 3.93 | 12.465 | | |
| 1,200.0 | 1,198.4 | 1,194.0 | 1,192.1 | 2.3 | 2.2 | 98.65 | 46.3 | -43.4 | 58.5 | 54.2 | 4.29 | 13.643 | | |
| 1,300.0 | 1,298.2 | 1,293.2 | 1,290.9 | 2.5 | 2.5 | 105.16 | 55.1 | -40.9 | 69.0 | 64.3 | 4.64 | 14.865 | | |
| 1,400.0 | 1,398.0 | 1,392.4 | 1,389.7 | 2.7 | 2.7 | 109.91 | 63.8 | -38.4 | 80.1 | 75.1 | 5.00 | 16.030 | | |
| 1,500.0 | 1,497.8 | 1,491.6 | 1,488.4 | 2.9 | 2.9 | 113.48 | 72.6 | -35.9 | 91.7 | 86.3 | 5.36 | 17.105 | | |
| 1,600.0 | 1,597.6 | 1,590.7 | 1,587.2 | 3.1 | 3.1 | 116.25 | 81.4 | -33.4 | 103.5 | 97.8 | 5.72 | 18.083 | | |
| 1,700.0 | 1,697.4 | 1,689.9 | 1,686.0 | 3.3 | 3.4 | 118.45 | 90.1 | -30.9 | 115.5 | 109.4 | 6.09 | 18.968 | | |
| 1,800.0 | 1,797.2 | 1,789.1 | 1,784.7 | 3.5 | 3.6 | 120.23 | 98.9 | -28.3 | 127.7 | 121.2 | 6.46 | 19.767 | | |
| 1,900.0 | 1,897.0 | 1,888.3 | 1,883.5 | 3.7 | 3.8 | 121.70 | 107.7 | -25.8 | 139.9 | 133.1 | 6.83 | 20.491 | | |
| 2,000.0 | 1,996.8 | 1,987.5 | 1,982.3 | 3.9 | 4.1 | 122.94 | 116.5 | -23.3 | 152.3 | 145.1 | 7.20 | 21.147 | | |
| 2,100.0 | 2,096.6 | 2,086.7 | 2,081.0 | 4.1 | 4.3 | 123.99 | 125.2 | -20.8 | 164.7 | 157.1 | 7.57 | 21.744 | | |
| 2,200.0 | 2,196.4 | 2,185.9 | 2,179.8 | 4.3 | 4.5 | 124.89 | 134.0 | -18.3 | 177.1 | 169.2 | 7.95 | 22.289 | | |
| 2,300.0 | 2,296.2 | 2,285.1 | 2,278.6 | 4.5 | 4.8 | 125.67 | 142.8 | -15.8 | 189.6 | 181.3 | 8.32 | 22.788 | | |
| 2,400.0 | 2,396.0 | 2,384.2 | 2,377.3 | 4.7 | 5.0 | 126.36 | 151.6 | -13.3 | 202.1 | 193.4 | 8.69 | 23.246 | | |
| 2,500.0 | 2,495.8 | 2,483.4 | 2,476.1 | 4.9 | 5.2 | 126.97 | 160.3 | -10.8 | 214.6 | 205.5 | 9.07 | 23.667 | | |
| 2,600.0 | 2,595.6 | 2,582.6 | 2,574.9 | 5.1 | 5.5 | 127.51 | 169.1 | -8.3 | 227.2 | 217.7 | 9.44 | 24.057 | | |
| 2,700.0 | 2,695.4 | 2,681.8 | 2,673.6 | 5.4 | 5.7 | 127.99 | 177.9 | -5.8 | 239.7 | 229.9 | 9.82 | 24.417 | | |
| 2,800.0 | 2,795.2 | 2,781.0 | 2,772.4 | 5.6 | 5.9 | 128.42 | 186.7 | -3.3 | 252.3 | 242.1 | 10.19 | 24.752 | | |
| 2,900.0 | 2,895.0 | 2,880.2 | 2,871.2 | 5.8 | 6.2 | 128.82 | 195.4 | -0.8 | 264.9 | 254.4 | 10.57 | 25.064 | | |
| 3,000.0 | 2,994.7 | 2,979.4 | 2,969.9 | 6.0 | 6.4 | 129.18 | 204.2 | 1.7 | 277.5 | 266.6 | 10.95 | 25.355 | | |
| 3,100.0 | 3,094.5 | 3,078.6 | 3,068.7 | 6.2 | 6.6 | 129.50 | 213.0 | 4.2 | 290.2 | 278.8 | 11.32 | 25.626 | | |
| 3,200.0 | 3,194.3 | 3,177.7 | 3,167.5 | 6.4 | 6.9 | 129.80 | 221.8 | 6.7 | 302.8 | 291.1 | 11.70 | 25.881 | | |
| 3,300.0 | 3,294.1 | 3,276.9 | 3,266.2 | 6.6 | 7.1 | 130.08 | 230.5 | 9.2 | 315.4 | 303.3 | 12.08 | 26.120 | | |
| 3,400.0 | 3,393.9 | 3,376.1 | 3,365.0 | 6.8 | 7.3 | 130.33 | 239.3 | 11.7 | 328.1 | 315.6 | 12.45 | 26.345 | | |
| 3,500.0 | 3,493.7 | 3,475.3 | 3,463.8 | 7.0 | 7.6 | 130.57 | 248.1 | 14.2 | 340.7 | 327.9 | 12.83 | 26.557 | | |
| 3,600.0 | 3,593.5 | 3,574.5 | 3,562.5 | 7.2 | 7.8 | 130.79 | 256.9 | 16.8 | 353.4 | 340.2 | 13.21 | 26.757 | | |
| 3,700.0 | 3,693.3 | 3,673.7 | 3,661.3 | 7.4 | 8.0 | 130.99 | 265.6 | 19.3 | 366.0 | 352.4 | 13.58 | 26.946 | | |
| 3,800.0 | 3,793.1 | 3,772.9 | 3,760.1 | 7.6 | 8.3 | 131.18 | 274.4 | 21.8 | 378.7 | 364.7 | 13.96 | 27.125 | | |
| 3,900.0 | 3,892.9 | 3,872.1 | 3,858.8 | 7.8 | 8.5 | 131.36 | 283.2 | 24.3 | 391.3 | 377.0 | 14.34 | 27.294 | | |
| 4,000.0 | 3,992.7 | 3,971.2 | 3,957.6 | 8.0 | 8.7 | 131.52 | 292.0 | 26.8 | 404.0 | 389.3 | 14.72 | 27.455 | | |
| 4,100.0 | 4,092.5 | 4,070.4 | 4,056.4 | 8.3 | 9.0 | 131.68 | 300.7 | 29.3 | 416.7 | 401.6 | 15.09 | 27.608 | | |
| 4,200.0 | 4,192.3 | 4,169.6 | 4,155.1 | 8.5 | 9.2 | 131.83 | 309.5 | 31.8 | 429.4 | 413.9 | 15.47 | 27.754 | | |
| 4,300.0 | 4,292.1 | 4,268.8 | 4,253.9 | 8.7 | 9.4 | 131.96 | 318.3 | 34.3 | 442.0 | 426.2 | 15.85 | 27.892 | | |
| 4,400.0 | 4,391.9 | 4,368.0 | 4,352.7 | 8.9 | 9.7 | 132.10 | 327.0 | 36.8 | 454.7 | 438.5 | 16.23 | 28.024 | | |
| 4,500.0 | 4,491.7 | 4,467.2 | 4,451.4 | 9.1 | 9.9 | 132.22 | 335.8 | 39.3 | 467.4 | 450.8 | 16.60 | 28.151 | | |
| 4,600.0 | 4,591.5 | 4,566.4 | 4,550.2 | 9.3 | 10.2 | 132.34 | 344.6 | 41.8 | 480.1 | 463.1 | 16.98 | 28.271 | | |
| 4,700.0 | 4,691.3 | 4,665.6 | 4,649.0 | 9.5 | 10.4 | 132.45 | 353.4 | 44.3 | 492.8 | 475.4 | 17.36 | 28.387 | | |

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

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2D-7H-E168 - 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 | 0.0 | 0.0 | 0.0 | 0.0 | -84.10 | 5.3 | -51.7 | 52.0 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -84.10 | 5.3 | -51.7 | 52.0 | 51.8 | 0.26 | 199.693 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -84.10 | 5.3 | -51.7 | 52.0 | 51.4 | 0.61 | 85.399 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 36.47 | 5.3 | -51.7 | 51.3 | 50.4 | 0.96 | 53.538 | | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.7 | 0.7 | 38.30 | 5.3 | -51.7 | 49.2 | 47.9 | 1.31 | 37.601 | | |
| 500.0 | 499.9 | 498.9 | 498.9 | 0.8 | 0.8 | 41.69 | 5.3 | -51.7 | 45.9 | 44.2 | 1.66 | 27.572 | | |
| 600.0 | 599.7 | 598.9 | 598.9 | 1.0 | 1.0 | 48.46 | 6.0 | -51.2 | 41.2 | 39.2 | 2.03 | 20.305 | | |
| 700.0 | 699.5 | 698.7 | 698.7 | 1.2 | 1.2 | 45.14 | 8.0 | -49.6 | 36.0 | 33.6 | 2.40 | 14.964 | | |
| 800.0 | 799.2 | 798.2 | 798.1 | 1.4 | 1.4 | 46.85 | 11.4 | -46.9 | 31.3 | 28.5 | 2.79 | 11.207 | | |
| 886.8 | 885.9 | 884.4 | 884.1 | 1.6 | 1.5 | 64.84 | 15.4 | -43.7 | 29.5 | 26.3 | 3.14 | 9.382 CC | | |
| 900.0 | 899.0 | 897.4 | 897.1 | 1.7 | 1.6 | 67.88 | 16.1 | -43.1 | 29.5 | 26.3 | 3.19 | 9.245 ES, SF | | |
| 1,000.0 | 998.8 | 996.3 | 995.6 | 1.9 | 1.8 | 90.38 | 22.1 | -38.3 | 33.2 | 29.7 | 3.57 | 9.323 | | |
| 1,100.0 | 1,098.6 | 1,094.7 | 1,093.6 | 2.1 | 2.0 | 107.40 | 29.4 | -32.5 | 42.4 | 38.5 | 3.90 | 10.881 | | |
| 1,200.0 | 1,198.4 | 1,192.8 | 1,191.2 | 2.3 | 2.2 | 118.21 | 38.0 | -25.7 | 55.6 | 51.4 | 4.23 | 13.146 | | |
| 1,300.0 | 1,298.2 | 1,291.5 | 1,289.1 | 2.5 | 2.4 | 124.84 | 46.9 | -18.6 | 70.3 | 65.8 | 4.56 | 15.412 | | |
| 1,400.0 | 1,398.0 | 1,390.1 | 1,387.1 | 2.7 | 2.7 | 129.15 | 55.8 | -11.5 | 85.7 | 80.8 | 4.91 | 17.465 | | |
| 1,500.0 | 1,497.8 | 1,488.8 | 1,485.1 | 2.9 | 2.9 | 132.13 | 64.6 | -4.3 | 101.4 | 96.1 | 5.25 | 19.294 | | |
| 1,600.0 | 1,597.6 | 1,587.4 | 1,583.1 | 3.1 | 3.2 | 134.32 | 73.5 | 2.8 | 117.3 | 111.7 | 5.61 | 20.919 | | |
| 1,700.0 | 1,697.4 | 1,686.1 | 1,681.1 | 3.3 | 3.4 | 135.98 | 82.4 | 9.9 | 133.3 | 127.3 | 5.96 | 22.364 | | |
| 1,800.0 | 1,797.2 | 1,784.7 | 1,779.1 | 3.5 | 3.7 | 137.28 | 91.3 | 17.0 | 149.4 | 143.1 | 6.32 | 23.654 | | |
| 1,900.0 | 1,897.0 | 1,883.4 | 1,877.1 | 3.7 | 3.9 | 138.34 | 100.2 | 24.1 | 165.5 | 158.9 | 6.67 | 24.811 | | |
| 2,000.0 | 1,996.8 | 1,982.0 | 1,975.0 | 3.9 | 4.2 | 139.20 | 109.1 | 31.2 | 181.7 | 174.7 | 7.03 | 25.852 | | |
| 2,100.0 | 2,096.6 | 2,080.6 | 2,073.0 | 4.1 | 4.4 | 139.92 | 118.0 | 38.3 | 198.0 | 190.6 | 7.39 | 26.795 | | |
| 2,200.0 | 2,196.4 | 2,179.3 | 2,171.0 | 4.3 | 4.7 | 140.53 | 126.9 | 45.4 | 214.3 | 206.5 | 7.75 | 27.650 | | |
| 2,300.0 | 2,296.2 | 2,277.9 | 2,269.0 | 4.5 | 5.0 | 141.06 | 135.8 | 52.5 | 230.5 | 222.4 | 8.11 | 28.431 | | |
| 2,400.0 | 2,396.0 | 2,376.6 | 2,367.0 | 4.7 | 5.2 | 141.52 | 144.7 | 59.6 | 246.8 | 238.4 | 8.47 | 29.145 | | |
| 2,500.0 | 2,495.8 | 2,475.2 | 2,465.0 | 4.9 | 5.5 | 141.92 | 153.6 | 66.7 | 263.2 | 254.3 | 8.83 | 29.801 | | |
| 2,600.0 | 2,595.6 | 2,573.9 | 2,563.0 | 5.1 | 5.7 | 142.27 | 162.5 | 73.8 | 279.5 | 270.3 | 9.19 | 30.406 | | |
| 2,700.0 | 2,695.4 | 2,672.5 | 2,660.9 | 5.4 | 6.0 | 142.59 | 171.4 | 80.9 | 295.8 | 286.3 | 9.55 | 30.965 | | |
| 2,800.0 | 2,795.2 | 2,771.2 | 2,758.9 | 5.6 | 6.3 | 142.87 | 180.3 | 88.1 | 312.2 | 302.2 | 9.92 | 31.483 | | |
| 2,900.0 | 2,895.0 | 2,869.8 | 2,856.9 | 5.8 | 6.5 | 143.12 | 189.2 | 95.2 | 328.5 | 318.2 | 10.28 | 31.965 | | |
| 3,000.0 | 2,994.7 | 2,968.4 | 2,954.9 | 6.0 | 6.8 | 143.35 | 198.1 | 102.3 | 344.9 | 334.2 | 10.64 | 32.413 | | |
| 3,100.0 | 3,094.5 | 3,067.1 | 3,052.9 | 6.2 | 7.0 | 143.56 | 206.9 | 109.4 | 361.2 | 350.2 | 11.00 | 32.832 | | |
| 3,200.0 | 3,194.3 | 3,165.7 | 3,150.9 | 6.4 | 7.3 | 143.75 | 215.8 | 116.5 | 377.6 | 366.2 | 11.36 | 33.225 | | |
| 3,300.0 | 3,294.1 | 3,264.4 | 3,248.9 | 6.6 | 7.6 | 143.93 | 224.7 | 123.6 | 394.0 | 382.2 | 11.73 | 33.593 | | |
| 3,400.0 | 3,393.9 | 3,363.0 | 3,346.8 | 6.8 | 7.8 | 144.09 | 233.6 | 130.7 | 410.3 | 398.2 | 12.09 | 33.938 | | |
| 3,500.0 | 3,493.7 | 3,461.7 | 3,444.8 | 7.0 | 8.1 | 144.23 | 242.5 | 137.8 | 426.7 | 414.2 | 12.45 | 34.264 | | |
| 3,600.0 | 3,593.5 | 3,560.3 | 3,542.8 | 7.2 | 8.3 | 144.37 | 251.4 | 144.9 | 443.1 | 430.3 | 12.82 | 34.571 | | |
| 3,700.0 | 3,693.3 | 3,659.0 | 3,640.8 | 7.4 | 8.6 | 144.50 | 260.3 | 152.0 | 459.5 | 446.3 | 13.18 | 34.861 | | |
| 3,800.0 | 3,793.1 | 3,757.6 | 3,738.8 | 7.6 | 8.9 | 144.62 | 269.2 | 159.1 | 475.8 | 462.3 | 13.54 | 35.135 | | |
| 3,900.0 | 3,892.9 | 3,856.2 | 3,836.8 | 7.8 | 9.1 | 144.73 | 278.1 | 166.2 | 492.2 | 478.3 | 13.91 | 35.395 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2E-7H-E168 - 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 | Separation Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | Axis | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -91.14 | -0.7 | -36.8 | 36.8 | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -91.14 | -0.7 | -36.8 | 36.8 | 36.5 | 0.26 | 141.198 | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -91.14 | -0.7 | -36.8 | 36.8 | 36.2 | 0.61 | 60.383 | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 29.54 | -0.7 | -36.8 | 36.0 | 35.1 | 0.96 | 37.584 | |
| 400.0 | 400.0 | 399.0 | 399.0 | 0.7 | 0.7 | 31.74 | -0.7 | -36.8 | 33.8 | 32.5 | 1.31 | 25.802 | |
| 500.0 | 499.9 | 498.9 | 498.9 | 0.8 | 0.8 | 36.12 | -0.7 | -36.8 | 30.1 | 28.5 | 1.66 | 18.133 | |
| 600.0 | 599.7 | 598.7 | 598.7 | 1.0 | 1.0 | 44.27 | -0.7 | -36.8 | 25.5 | 23.4 | 2.03 | 12.569 | |
| 700.0 | 699.5 | 698.5 | 698.5 | 1.2 | 1.2 | 41.33 | -0.7 | -36.8 | 20.6 | 18.2 | 2.40 | 8.580 | |
| 800.0 | 799.2 | 798.2 | 798.2 | 1.4 | 1.3 | 41.06 | -0.7 | -36.8 | 15.7 | 12.9 | 2.77 | 5.646 | |
| 900.0 | 899.0 | 898.0 | 898.0 | 1.7 | 1.5 | 62.21 | -0.7 | -36.8 | 11.6 | 8.4 | 3.17 | 3.667 | |
| 984.9 | 983.8 | 982.8 | 982.8 | 1.8 | 1.7 | 90.01 | -0.7 | -36.8 | 10.3 | 6.8 | 3.49 | 2.946 CC | |
| 1,000.0 | 998.8 | 997.8 | 997.8 | 1.9 | 1.7 | 95.36 | -0.7 | -36.8 | 10.3 | 6.8 | 3.54 | 2.918 ES, SF | |
| 1,100.0 | 1,098.6 | 1,097.4 | 1,097.4 | 2.1 | 1.9 | 126.69 | -0.2 | -36.1 | 13.4 | 9.6 | 3.83 | 3.504 | |
| 1,200.0 | 1,198.4 | 1,196.8 | 1,196.7 | 2.3 | 2.0 | 143.43 | 1.3 | -34.1 | 20.6 | 16.4 | 4.14 | 4.967 | |
| 1,300.0 | 1,298.2 | 1,295.8 | 1,295.7 | 2.5 | 2.2 | 150.89 | 3.9 | -30.7 | 30.2 | 25.8 | 4.47 | 6.762 | |
| 1,400.0 | 1,398.0 | 1,394.5 | 1,394.2 | 2.7 | 2.4 | 154.30 | 7.5 | -26.0 | 41.9 | 37.1 | 4.81 | 8.697 | |
| 1,500.0 | 1,497.8 | 1,492.8 | 1,492.2 | 2.9 | 2.6 | 155.89 | 12.1 | -19.9 | 55.3 | 50.1 | 5.16 | 10.709 | |
| 1,600.0 | 1,597.6 | 1,590.6 | 1,589.5 | 3.1 | 2.8 | 156.58 | 17.6 | -12.5 | 70.3 | 64.8 | 5.51 | 12.768 | |
| 1,700.0 | 1,697.4 | 1,687.8 | 1,686.2 | 3.3 | 3.0 | 156.79 | 24.2 | -3.9 | 87.1 | 81.2 | 5.86 | 14.863 | |
| 1,800.0 | 1,797.2 | 1,784.6 | 1,782.1 | 3.5 | 3.2 | 156.75 | 31.6 | 6.0 | 105.4 | 99.2 | 6.21 | 16.984 | |
| 1,900.0 | 1,897.0 | 1,880.6 | 1,877.2 | 3.7 | 3.5 | 156.57 | 40.0 | 17.1 | 125.4 | 118.8 | 6.56 | 19.125 | |
| 2,000.0 | 1,996.8 | 1,976.7 | 1,972.0 | 3.9 | 3.8 | 156.32 | 49.4 | 29.4 | 146.9 | 140.0 | 6.91 | 21.271 | |
| 2,100.0 | 2,096.6 | 2,074.3 | 2,068.3 | 4.1 | 4.0 | 156.10 | 59.1 | 42.2 | 168.9 | 161.6 | 7.26 | 23.257 | |
| 2,200.0 | 2,196.4 | 2,171.9 | 2,164.5 | 4.3 | 4.3 | 155.94 | 68.8 | 55.0 | 190.8 | 183.2 | 7.61 | 25.059 | |
| 2,300.0 | 2,296.2 | 2,269.4 | 2,260.7 | 4.5 | 4.6 | 155.80 | 78.5 | 67.9 | 212.7 | 204.8 | 7.97 | 26.700 | |
| 2,400.0 | 2,396.0 | 2,367.0 | 2,356.9 | 4.7 | 4.9 | 155.69 | 88.2 | 80.7 | 234.7 | 226.3 | 8.32 | 28.202 | |
| 2,500.0 | 2,495.8 | 2,464.6 | 2,453.2 | 4.9 | 5.2 | 155.60 | 97.9 | 93.5 | 256.6 | 247.9 | 8.67 | 29.582 | |
| 2,600.0 | 2,595.6 | 2,562.1 | 2,549.4 | 5.1 | 5.5 | 155.53 | 107.6 | 106.3 | 278.5 | 269.5 | 9.03 | 30.852 | |
| 2,700.0 | 2,695.4 | 2,659.7 | 2,645.6 | 5.4 | 5.8 | 155.46 | 117.3 | 119.2 | 300.5 | 291.1 | 9.38 | 32.027 | |
| 2,800.0 | 2,795.2 | 2,757.2 | 2,741.8 | 5.6 | 6.1 | 155.41 | 127.1 | 132.0 | 322.4 | 312.7 | 9.74 | 33.116 | |
| 2,900.0 | 2,895.0 | 2,854.8 | 2,838.1 | 5.8 | 6.4 | 155.36 | 136.8 | 144.8 | 344.4 | 334.3 | 10.09 | 34.128 | |
| 3,000.0 | 2,994.7 | 2,952.4 | 2,934.3 | 6.0 | 6.8 | 155.31 | 146.5 | 157.6 | 366.3 | 355.8 | 10.44 | 35.072 | |
| 3,100.0 | 3,094.5 | 3,049.9 | 3,030.5 | 6.2 | 7.1 | 155.28 | 156.2 | 170.5 | 388.2 | 377.4 | 10.80 | 35.953 | |
| 3,200.0 | 3,194.3 | 3,147.5 | 3,126.8 | 6.4 | 7.4 | 155.24 | 165.9 | 183.3 | 410.2 | 399.0 | 11.15 | 36.779 | |
| 3,300.0 | 3,294.1 | 3,245.1 | 3,223.0 | 6.6 | 7.7 | 155.21 | 175.6 | 196.1 | 432.1 | 420.6 | 11.51 | 37.553 | |
| 3,400.0 | 3,393.9 | 3,342.6 | 3,319.2 | 6.8 | 8.0 | 155.18 | 185.3 | 209.0 | 454.0 | 442.2 | 11.86 | 38.281 | |
| 3,500.0 | 3,493.7 | 3,440.2 | 3,415.4 | 7.0 | 8.3 | 155.16 | 195.0 | 221.8 | 476.0 | 463.8 | 12.22 | 38.966 | |
| 3,600.0 | 3,593.5 | 3,537.8 | 3,511.7 | 7.2 | 8.7 | 155.14 | 204.8 | 234.6 | 497.9 | 485.4 | 12.57 | 39.613 | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2F-7H-E168 - 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 | Separation | | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | +N/-S (ft) | +E/-W (ft) | (ft) | (ft) | Axis | Factor | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -80.62 | 5.2 | -31.7 | 32.2 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -80.62 | 5.2 | -31.7 | 32.2 | 31.9 | 0.26 | 123.511 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -80.62 | 5.2 | -31.7 | 32.2 | 31.6 | 0.61 | 52.820 | | |
| 300.0 | 300.0 | 299.0 | 299.0 | 0.5 | 0.5 | 40.39 | 5.2 | -31.7 | 31.5 | 30.5 | 0.96 | 32.867 | | |
| 400.0 | 400.0 | 399.3 | 399.3 | 0.7 | 0.7 | 44.85 | 5.6 | -31.0 | 28.9 | 27.6 | 1.31 | 22.060 | | |
| 500.0 | 499.9 | 499.4 | 499.4 | 0.8 | 0.8 | 56.36 | 6.9 | -28.7 | 24.4 | 22.7 | 1.67 | 14.580 | | |
| 600.0 | 599.7 | 599.0 | 598.9 | 1.0 | 1.0 | 81.27 | 8.9 | -24.9 | 20.4 | 18.3 | 2.07 | 9.867 | | |
| 635.2 | 634.8 | 633.9 | 633.7 | 1.1 | 1.1 | 88.72 | 9.8 | -23.2 | 20.0 | 17.8 | 2.21 | 9.072 CC, ES | | |
| 700.0 | 699.5 | 698.2 | 697.8 | 1.2 | 1.2 | 102.08 | 11.7 | -19.5 | 21.4 | 18.9 | 2.45 | 8.743 SF | | |
| 800.0 | 799.2 | 796.9 | 796.3 | 1.4 | 1.4 | 116.67 | 15.3 | -12.7 | 28.5 | 25.7 | 2.78 | 10.264 | | |
| 900.0 | 899.0 | 895.2 | 894.1 | 1.7 | 1.6 | 133.00 | 19.7 | -4.5 | 40.6 | 37.5 | 3.10 | 13.105 | | |
| 1,000.0 | 998.8 | 992.9 | 991.2 | 1.9 | 1.9 | 141.88 | 24.9 | 5.2 | 56.1 | 52.6 | 3.43 | 16.364 | | |
| 1,100.0 | 1,098.6 | 1,090.0 | 1,087.5 | 2.1 | 2.1 | 147.02 | 30.8 | 16.3 | 73.9 | 70.2 | 3.76 | 19.664 | | |
| 1,200.0 | 1,198.4 | 1,186.5 | 1,183.0 | 2.3 | 2.4 | 150.21 | 37.4 | 28.7 | 93.9 | 89.8 | 4.10 | 22.899 | | |
| 1,300.0 | 1,298.2 | 1,282.3 | 1,277.5 | 2.5 | 2.7 | 152.31 | 44.7 | 42.4 | 115.6 | 111.2 | 4.44 | 26.046 | | |
| 1,400.0 | 1,398.0 | 1,377.4 | 1,371.0 | 2.7 | 3.1 | 153.75 | 52.6 | 57.4 | 139.1 | 134.3 | 4.78 | 29.107 | | |
| 1,500.0 | 1,497.8 | 1,473.8 | 1,465.7 | 2.9 | 3.4 | 154.78 | 61.2 | 73.6 | 163.7 | 158.6 | 5.12 | 31.968 | | |
| 1,600.0 | 1,597.6 | 1,570.6 | 1,560.8 | 3.1 | 3.7 | 155.55 | 69.9 | 89.9 | 188.4 | 182.9 | 5.46 | 34.474 | | |
| 1,700.0 | 1,697.4 | 1,667.5 | 1,655.9 | 3.3 | 4.1 | 156.15 | 78.5 | 106.2 | 213.1 | 207.3 | 5.81 | 36.683 | | |
| 1,800.0 | 1,797.2 | 1,764.4 | 1,751.0 | 3.5 | 4.4 | 156.61 | 87.2 | 122.4 | 237.8 | 231.7 | 6.15 | 38.644 | | |
| 1,900.0 | 1,897.0 | 1,861.3 | 1,846.1 | 3.7 | 4.8 | 156.99 | 95.8 | 138.7 | 262.6 | 256.1 | 6.50 | 40.397 | | |
| 2,000.0 | 1,996.8 | 1,958.1 | 1,941.2 | 3.9 | 5.2 | 157.31 | 104.5 | 155.0 | 287.3 | 280.5 | 6.85 | 41.971 | | |
| 2,100.0 | 2,096.6 | 2,055.0 | 2,036.3 | 4.1 | 5.5 | 157.57 | 113.1 | 171.3 | 312.1 | 304.9 | 7.19 | 43.394 | | |
| 2,200.0 | 2,196.4 | 2,151.9 | 2,131.4 | 4.3 | 5.9 | 157.80 | 121.8 | 187.5 | 336.9 | 329.3 | 7.54 | 44.685 | | |
| 2,300.0 | 2,296.2 | 2,248.8 | 2,226.5 | 4.5 | 6.2 | 157.99 | 130.4 | 203.8 | 361.6 | 353.8 | 7.89 | 45.862 | | |
| 2,400.0 | 2,396.0 | 2,345.6 | 2,321.6 | 4.7 | 6.6 | 158.16 | 139.1 | 220.1 | 386.4 | 378.2 | 8.23 | 46.940 | | |
| 2,500.0 | 2,495.8 | 2,442.5 | 2,416.7 | 4.9 | 7.0 | 158.31 | 147.7 | 236.4 | 411.2 | 402.6 | 8.58 | 47.930 | | |
| 2,600.0 | 2,595.6 | 2,539.4 | 2,511.8 | 5.1 | 7.3 | 158.45 | 156.4 | 252.7 | 436.0 | 427.1 | 8.93 | 48.842 | | |
| 2,700.0 | 2,695.4 | 2,636.3 | 2,606.9 | 5.4 | 7.7 | 158.56 | 165.0 | 268.9 | 460.8 | 451.5 | 9.27 | 49.686 | | |
| 2,800.0 | 2,795.2 | 2,733.2 | 2,702.1 | 5.6 | 8.0 | 158.67 | 173.7 | 285.2 | 485.6 | 475.9 | 9.62 | 50.469 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 S7-T1N-R68W (Woolley-Sosa/Becky) - Woolley-Sosa 2G-7H-E168 - 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 | 0.0 | 0.0 | 0.0 | 0.0 | -91.67 | -0.8 | -26.8 | 26.8 | | | | | |
| 100.0 | 100.0 | 99.0 | 99.0 | 0.1 | 0.1 | -91.67 | -0.8 | -26.8 | 26.8 | 26.5 | 0.26 | 102.825 | | |
| 200.0 | 200.0 | 199.0 | 199.0 | 0.3 | 0.3 | -91.67 | -0.8 | -26.8 | 26.8 | 26.2 | 0.61 | 43.973 | | |
| 300.0 | 300.0 | 299.4 | 299.4 | 0.5 | 0.5 | 29.97 | -0.5 | -26.0 | 25.2 | 24.3 | 0.96 | 26.296 | | |
| 400.0 | 400.0 | 399.6 | 399.6 | 0.7 | 0.7 | 36.40 | 0.5 | -23.6 | 20.7 | 19.4 | 1.31 | 15.758 | | |
| 500.0 | 499.9 | 499.5 | 499.4 | 0.8 | 0.8 | 55.79 | 2.2 | -19.5 | 14.1 | 12.5 | 1.68 | 8.408 | | |
| 574.7 | 574.4 | 573.7 | 573.4 | 1.0 | 1.0 | 93.84 | 3.8 | -15.5 | 11.1 | 9.1 | 1.99 | 5.572 CC, ES | | |
| 600.0 | 599.7 | 598.8 | 598.5 | 1.0 | 1.0 | 110.72 | 4.5 | -13.9 | 11.6 | 9.5 | 2.09 | 5.567 SF | | |
| 700.0 | 699.5 | 697.6 | 697.0 | 1.2 | 1.3 | 139.35 | 7.4 | -6.8 | 20.6 | 18.2 | 2.40 | 8.579 | | |
| 800.0 | 799.2 | 795.9 | 794.8 | 1.4 | 1.5 | 142.98 | 11.0 | 1.9 | 34.2 | 31.5 | 2.72 | 12.588 | | |
| 900.0 | 899.0 | 893.7 | 892.0 | 1.7 | 1.7 | 151.01 | 15.2 | 12.0 | 50.5 | 47.5 | 3.05 | 16.557 | | |
| 1,000.0 | 998.8 | 990.9 | 988.4 | 1.9 | 2.0 | 155.20 | 19.9 | 23.6 | 69.0 | 65.6 | 3.39 | 20.354 | | |
| 1,100.0 | 1,098.6 | 1,087.4 | 1,083.9 | 2.1 | 2.3 | 157.66 | 25.3 | 36.7 | 89.4 | 85.6 | 3.73 | 23.953 | | |
| 1,200.0 | 1,198.4 | 1,183.2 | 1,178.4 | 2.3 | 2.6 | 159.21 | 31.2 | 51.1 | 111.5 | 107.4 | 4.07 | 27.379 | | |
| 1,300.0 | 1,298.2 | 1,278.3 | 1,271.9 | 2.5 | 2.9 | 160.24 | 37.7 | 66.8 | 135.2 | 130.8 | 4.41 | 30.660 | | |
| 1,400.0 | 1,398.0 | 1,372.6 | 1,364.4 | 2.7 | 3.3 | 160.96 | 44.6 | 83.8 | 160.6 | 155.9 | 4.75 | 33.822 | | |
| 1,500.0 | 1,497.8 | 1,466.0 | 1,455.7 | 2.9 | 3.7 | 161.46 | 52.1 | 102.1 | 187.6 | 182.5 | 5.09 | 36.886 | | |
| 1,600.0 | 1,597.6 | 1,558.9 | 1,546.2 | 3.1 | 4.0 | 161.82 | 60.2 | 121.6 | 216.2 | 210.8 | 5.42 | 39.865 | | |
| 1,700.0 | 1,697.4 | 1,654.5 | 1,639.2 | 3.3 | 4.5 | 162.10 | 68.6 | 142.2 | 245.4 | 239.6 | 5.76 | 42.567 | | |
| 1,800.0 | 1,797.2 | 1,750.2 | 1,732.2 | 3.5 | 4.9 | 162.33 | 77.1 | 162.9 | 274.6 | 268.5 | 6.11 | 44.968 | | |
| 1,900.0 | 1,897.0 | 1,845.8 | 1,825.2 | 3.7 | 5.3 | 162.51 | 85.6 | 183.5 | 303.8 | 297.3 | 6.45 | 47.115 | | |
| 2,000.0 | 1,996.8 | 1,941.5 | 1,918.2 | 3.9 | 5.7 | 162.65 | 94.1 | 204.2 | 333.0 | 326.2 | 6.79 | 49.044 | | |
| 2,100.0 | 2,096.6 | 2,037.1 | 2,011.2 | 4.1 | 6.1 | 162.78 | 102.6 | 224.8 | 362.2 | 355.0 | 7.13 | 50.788 | | |
| 2,200.0 | 2,196.4 | 2,132.7 | 2,104.2 | 4.3 | 6.6 | 162.88 | 111.0 | 245.4 | 391.4 | 383.9 | 7.47 | 52.372 | | |
| 2,300.0 | 2,296.2 | 2,228.4 | 2,197.2 | 4.5 | 7.0 | 162.97 | 119.5 | 266.1 | 420.6 | 412.7 | 7.81 | 53.817 | | |
| 2,400.0 | 2,396.0 | 2,324.0 | 2,290.2 | 4.7 | 7.4 | 163.05 | 128.0 | 286.7 | 449.8 | 441.6 | 8.16 | 55.140 | | |
| 2,500.0 | 2,495.8 | 2,419.7 | 2,383.2 | 4.9 | 7.8 | 163.12 | 136.5 | 307.4 | 479.0 | 470.5 | 8.50 | 56.357 | | |

Cathedral Energy Services

Anticollision Report

| | | | |
|---------------------------|----------------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Woolley-Becky 2A-7H-E168 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Reference Site: | S7-T1N-R68W (Woolley-Sosa/Becky) | MD Reference: | WELL @ 5020.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Woolley-Becky 2A-7H-E168 | 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 @ 5020.0ft (Original Well Elev)
Offset Depths are relative to Offset Datum
Central Meridian is -105.500000 °

Coordinates are relative to: Woolley-Becky 2A-7H-E168
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.29°

