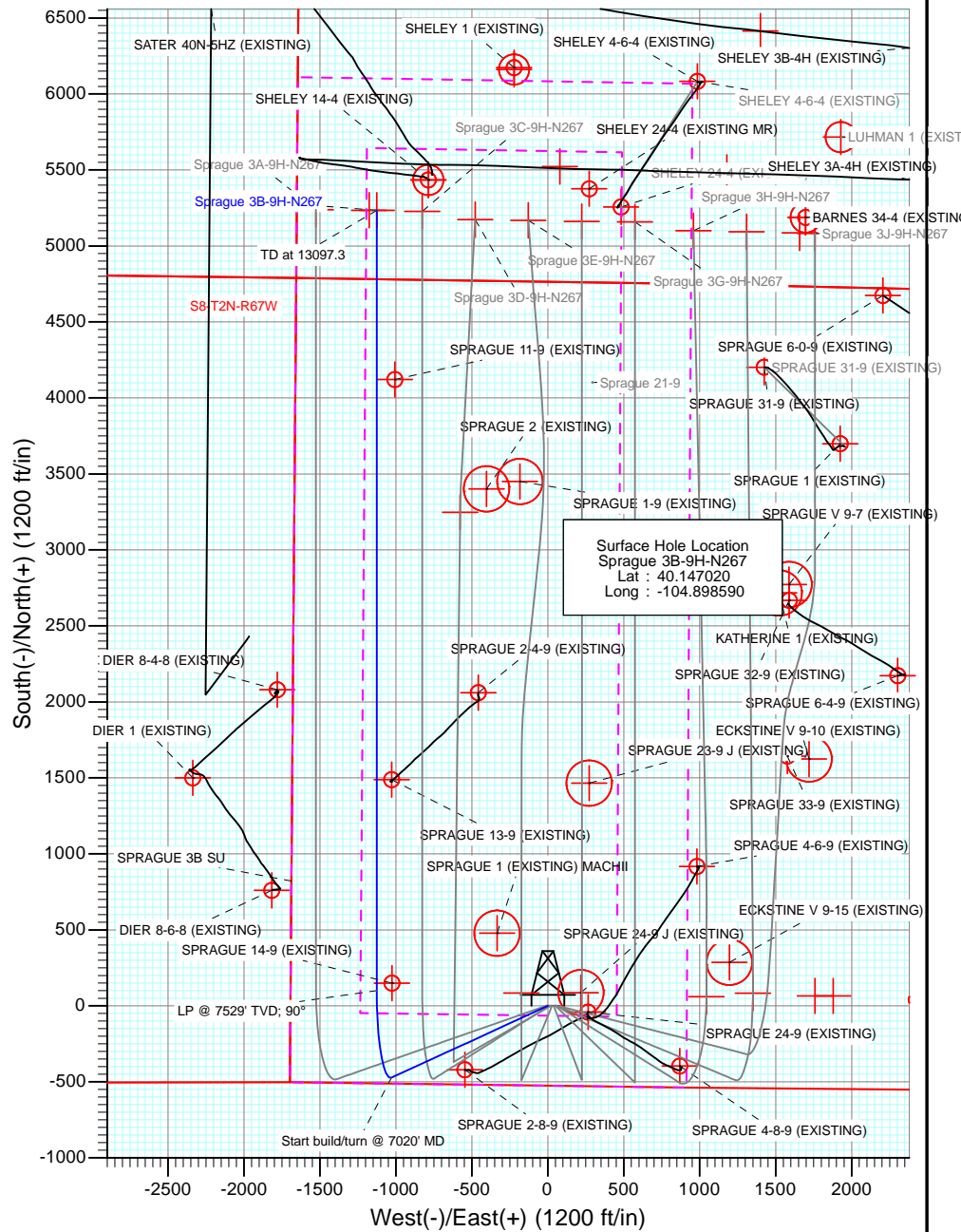
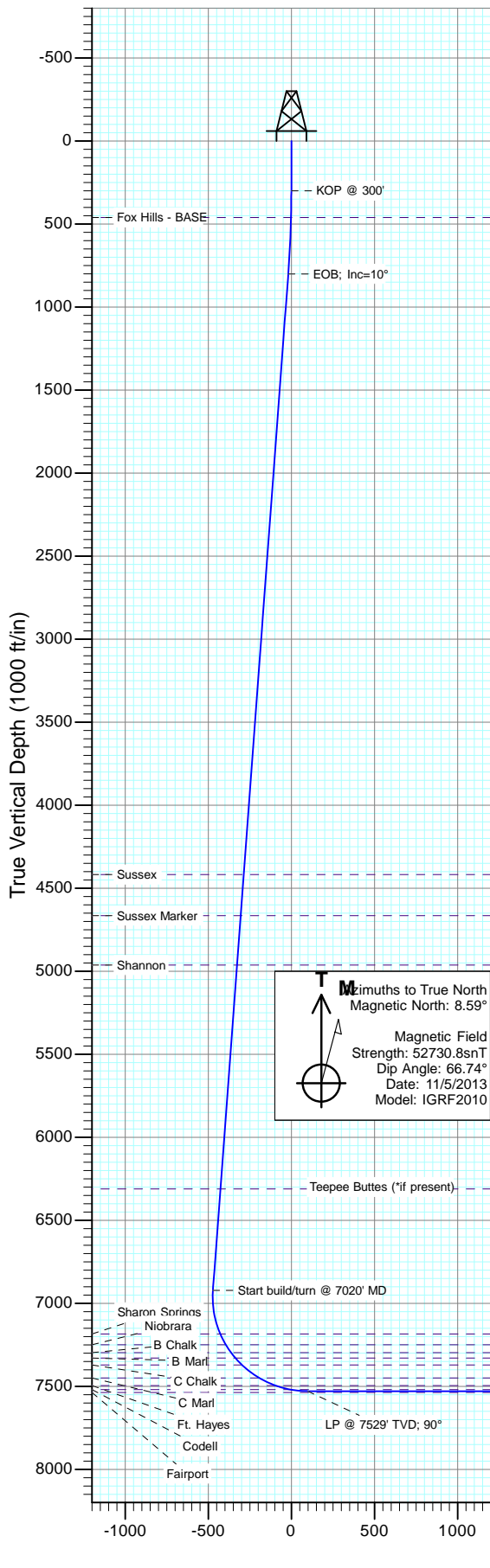




Project: DJ Wattenberg
Site: S9-T2N-R67W (Sprague)
Well: Sprague 3B-9H-N267
Wellbore: Hz
Design: Plan #2



Plan #2
Sprague 3B-9H-N267
13xxx; LR
WELL @ 5011.0ft (Original Well Elev)
Ground Elevation @ 4981.0
North American Datum 1983
Well Sprague 3B-9H-N267, True North

FORMATION TOP DETAILS

| TVDPath | MDPath | Formation |
|---------|--------|-----------------------------|
| 461.0 | 461.1 | Fox Hills - BASE |
| 4418.0 | 4477.2 | Sussex |
| 4665.0 | 4728.1 | Sussex Marker |
| 4963.0 | 5030.7 | Shannon |
| 6311.0 | 6399.8 | Teepee Buttes (*if present) |
| 7184.0 | 7291.9 | Sharon Springs |
| 7249.0 | 7365.6 | Niobrara |
| 7297.0 | 7423.8 | B Chalk |
| 7329.0 | 7465.1 | B Marl |
| 7371.0 | 7523.4 | C Chalk |
| 7449.0 | 7653.9 | C Marl |
| 7495.0 | 7762.7 | Ft. Hayes |
| 7519.0 | 7854.4 | Codell |

TD at 13097.3

Sprague 3B-9H-N267 PBHL P2

Vertical Section at 0.00° (1000 ft/in)

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site: | S9-T2N-R67W (Sprague) | North Reference: | True |
| Well: | Sprague 3B-9H-N267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

| | | | |
|--------------------|---------------------------|----------------------|----------------|
| 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 | | S9-T2N-R67W (Sprague) | | | |
| Site Position: | | Northing: | 1,298,443.90 ft | Latitude: | 40.151070 |
| From: | Lat/Long | Easting: | 3,167,093.12 ft | Longitude: | -104.902260 |
| Position Uncertainty: | 0.0 ft | Slot Radius: | 13.200 in | Grid Convergence: | 0.39 ° |

| | | | | | | |
|----------------------|--------------------|--------|---------------------|-----------------|---------------|-------------|
| Well | Sprague 3B-9H-N267 | | | | | |
| Well Position | +N/-S | 0.0 ft | Northing: | 1,296,975.52 ft | Latitude: | 40.147020 |
| | +E/-W | 0.0 ft | Easting: | 3,168,128.99 ft | Longitude: | -104.898590 |
| Position Uncertainty | | 0.0 ft | Wellhead Elevation: | ft | Ground Level: | 4,981.0 ft |

| | | | | | |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| Wellbore | Hz | | | | |
| Magnetics | Model Name | Sample Date | Declination (°) | Dip Angle (°) | Field Strength (nT) |
| | IGRF2010 | 11/5/2013 | 8.59 | 66.74 | 52,731 |

| | | | | |
|--------------------------|------------------------------|-------------------|----------------------|----------------------|
| Design | Plan #2 | | | |
| 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 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 803.6 | 10.07 | 245.36 | 801.0 | -18.4 | -40.1 | 2.00 | 2.00 | 0.00 | 245.36 | |
| 7,020.5 | 10.07 | 245.36 | 6,922.1 | -471.7 | -1,028.4 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,962.3 | 90.00 | 0.00 | 7,529.0 | 99.8 | -1,126.3 | 10.00 | 8.49 | 12.17 | 114.30 | |
| 13,097.3 | 90.00 | 0.00 | 7,529.0 | 5,234.8 | -1,126.3 | 0.00 | 0.00 | 0.00 | 0.00 | Sprague 3B-9H-N267 |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site: | S9-T2N-R67W (Sprague) | North Reference: | True |
| Well: | Sprague 3B-9H-N267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

| Planned Survey | | | | | | | | | |
|---------------------|-----------------|-------------|---------------------|------------|------------|-----------------------|-----------------------|----------------------|-----------------------|
| Measured Depth (ft) | Inclination (°) | Azimuth (°) | Vertical Depth (ft) | +N/-S (ft) | +E/-W (ft) | Vertical Section (ft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Comments / Formations |
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 100.0 | 0.00 | 0.00 | 100.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 200.0 | 0.00 | 0.00 | 200.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | |
| 300.0 | 0.00 | 0.00 | 300.0 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | KOP @ 300' |
| 400.0 | 2.00 | 245.36 | 400.0 | -0.7 | -1.6 | -0.7 | 2.00 | 2.00 | |
| 461.1 | 3.22 | 245.36 | 461.0 | -1.9 | -4.1 | -1.9 | 2.00 | 2.00 | Fox Hills - BASE |
| 500.0 | 4.00 | 245.36 | 499.8 | -2.9 | -6.3 | -2.9 | 2.00 | 2.00 | |
| 600.0 | 6.00 | 245.36 | 599.5 | -6.5 | -14.3 | -6.5 | 2.00 | 2.00 | |
| 700.0 | 8.00 | 245.36 | 698.7 | -11.6 | -25.3 | -11.6 | 2.00 | 2.00 | |
| 800.0 | 10.00 | 245.36 | 797.5 | -18.1 | -39.6 | -18.1 | 2.00 | 2.00 | |
| 803.6 | 10.07 | 245.36 | 801.0 | -18.4 | -40.1 | -18.4 | 2.00 | 2.00 | EOB; Inc=10° |
| 900.0 | 10.07 | 245.36 | 895.9 | -25.4 | -55.5 | -25.4 | 0.00 | 0.00 | |
| 1,000.0 | 10.07 | 245.36 | 994.4 | -32.7 | -71.3 | -32.7 | 0.00 | 0.00 | |
| 1,100.0 | 10.07 | 245.36 | 1,092.8 | -40.0 | -87.2 | -40.0 | 0.00 | 0.00 | |
| 1,200.0 | 10.07 | 245.36 | 1,191.3 | -47.3 | -103.1 | -47.3 | 0.00 | 0.00 | |
| 1,300.0 | 10.07 | 245.36 | 1,289.8 | -54.6 | -119.0 | -54.6 | 0.00 | 0.00 | |
| 1,400.0 | 10.07 | 245.36 | 1,388.2 | -61.9 | -134.9 | -61.9 | 0.00 | 0.00 | |
| 1,500.0 | 10.07 | 245.36 | 1,486.7 | -69.2 | -150.8 | -69.2 | 0.00 | 0.00 | |
| 1,600.0 | 10.07 | 245.36 | 1,585.1 | -76.5 | -166.7 | -76.5 | 0.00 | 0.00 | |
| 1,700.0 | 10.07 | 245.36 | 1,683.6 | -83.8 | -182.6 | -83.8 | 0.00 | 0.00 | |
| 1,800.0 | 10.07 | 245.36 | 1,782.1 | -91.1 | -198.5 | -91.1 | 0.00 | 0.00 | |
| 1,900.0 | 10.07 | 245.36 | 1,880.5 | -98.3 | -214.4 | -98.3 | 0.00 | 0.00 | |
| 2,000.0 | 10.07 | 245.36 | 1,979.0 | -105.6 | -230.3 | -105.6 | 0.00 | 0.00 | |
| 2,100.0 | 10.07 | 245.36 | 2,077.4 | -112.9 | -246.2 | -112.9 | 0.00 | 0.00 | |
| 2,200.0 | 10.07 | 245.36 | 2,175.9 | -120.2 | -262.1 | -120.2 | 0.00 | 0.00 | |
| 2,300.0 | 10.07 | 245.36 | 2,274.3 | -127.5 | -278.0 | -127.5 | 0.00 | 0.00 | |
| 2,400.0 | 10.07 | 245.36 | 2,372.8 | -134.8 | -293.9 | -134.8 | 0.00 | 0.00 | |
| 2,500.0 | 10.07 | 245.36 | 2,471.3 | -142.1 | -309.8 | -142.1 | 0.00 | 0.00 | |
| 2,600.0 | 10.07 | 245.36 | 2,569.7 | -149.4 | -325.7 | -149.4 | 0.00 | 0.00 | |
| 2,700.0 | 10.07 | 245.36 | 2,668.2 | -156.7 | -341.6 | -156.7 | 0.00 | 0.00 | |
| 2,800.0 | 10.07 | 245.36 | 2,766.6 | -164.0 | -357.5 | -164.0 | 0.00 | 0.00 | |
| 2,900.0 | 10.07 | 245.36 | 2,865.1 | -171.3 | -373.4 | -171.3 | 0.00 | 0.00 | |
| 3,000.0 | 10.07 | 245.36 | 2,963.6 | -178.5 | -389.3 | -178.5 | 0.00 | 0.00 | |
| 3,100.0 | 10.07 | 245.36 | 3,062.0 | -185.8 | -405.2 | -185.8 | 0.00 | 0.00 | |
| 3,200.0 | 10.07 | 245.36 | 3,160.5 | -193.1 | -421.1 | -193.1 | 0.00 | 0.00 | |
| 3,300.0 | 10.07 | 245.36 | 3,258.9 | -200.4 | -437.0 | -200.4 | 0.00 | 0.00 | |
| 3,400.0 | 10.07 | 245.36 | 3,357.4 | -207.7 | -452.9 | -207.7 | 0.00 | 0.00 | |
| 3,500.0 | 10.07 | 245.36 | 3,455.9 | -215.0 | -468.7 | -215.0 | 0.00 | 0.00 | |
| 3,600.0 | 10.07 | 245.36 | 3,554.3 | -222.3 | -484.6 | -222.3 | 0.00 | 0.00 | |
| 3,700.0 | 10.07 | 245.36 | 3,652.8 | -229.6 | -500.5 | -229.6 | 0.00 | 0.00 | |
| 3,800.0 | 10.07 | 245.36 | 3,751.2 | -236.9 | -516.4 | -236.9 | 0.00 | 0.00 | |
| 3,900.0 | 10.07 | 245.36 | 3,849.7 | -244.2 | -532.3 | -244.2 | 0.00 | 0.00 | |
| 4,000.0 | 10.07 | 245.36 | 3,948.2 | -251.5 | -548.2 | -251.5 | 0.00 | 0.00 | |
| 4,100.0 | 10.07 | 245.36 | 4,046.6 | -258.7 | -564.1 | -258.7 | 0.00 | 0.00 | |
| 4,200.0 | 10.07 | 245.36 | 4,145.1 | -266.0 | -580.0 | -266.0 | 0.00 | 0.00 | |
| 4,300.0 | 10.07 | 245.36 | 4,243.5 | -273.3 | -595.9 | -273.3 | 0.00 | 0.00 | |
| 4,400.0 | 10.07 | 245.36 | 4,342.0 | -280.6 | -611.8 | -280.6 | 0.00 | 0.00 | |
| 4,477.2 | 10.07 | 245.36 | 4,418.0 | -286.2 | -624.1 | -286.2 | 0.00 | 0.00 | Sussex |
| 4,500.0 | 10.07 | 245.36 | 4,440.4 | -287.9 | -627.7 | -287.9 | 0.00 | 0.00 | |
| 4,600.0 | 10.07 | 245.36 | 4,538.9 | -295.2 | -643.6 | -295.2 | 0.00 | 0.00 | |
| 4,700.0 | 10.07 | 245.36 | 4,637.4 | -302.5 | -659.5 | -302.5 | 0.00 | 0.00 | |
| 4,728.1 | 10.07 | 245.36 | 4,665.0 | -304.5 | -664.0 | -304.5 | 0.00 | 0.00 | Sussex Marker |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site: | S9-T2N-R67W (Sprague) | North Reference: | True |
| Well: | Sprague 3B-9H-N267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

| 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 | 10.07 | 245.36 | 4,735.8 | -309.8 | -675.4 | -309.8 | 0.00 | 0.00 | |
| 4,900.0 | 10.07 | 245.36 | 4,834.3 | -317.1 | -691.3 | -317.1 | 0.00 | 0.00 | |
| 5,000.0 | 10.07 | 245.36 | 4,932.7 | -324.4 | -707.2 | -324.4 | 0.00 | 0.00 | |
| 5,030.7 | 10.07 | 245.36 | 4,963.0 | -326.6 | -712.1 | -326.6 | 0.00 | 0.00 | Shannon |
| 5,100.0 | 10.07 | 245.36 | 5,031.2 | -331.6 | -723.1 | -331.6 | 0.00 | 0.00 | |
| 5,200.0 | 10.07 | 245.36 | 5,129.7 | -338.9 | -739.0 | -338.9 | 0.00 | 0.00 | |
| 5,300.0 | 10.07 | 245.36 | 5,228.1 | -346.2 | -754.9 | -346.2 | 0.00 | 0.00 | |
| 5,400.0 | 10.07 | 245.36 | 5,326.6 | -353.5 | -770.8 | -353.5 | 0.00 | 0.00 | |
| 5,500.0 | 10.07 | 245.36 | 5,425.0 | -360.8 | -786.7 | -360.8 | 0.00 | 0.00 | |
| 5,600.0 | 10.07 | 245.36 | 5,523.5 | -368.1 | -802.6 | -368.1 | 0.00 | 0.00 | |
| 5,700.0 | 10.07 | 245.36 | 5,622.0 | -375.4 | -818.5 | -375.4 | 0.00 | 0.00 | |
| 5,800.0 | 10.07 | 245.36 | 5,720.4 | -382.7 | -834.4 | -382.7 | 0.00 | 0.00 | |
| 5,900.0 | 10.07 | 245.36 | 5,818.9 | -390.0 | -850.3 | -390.0 | 0.00 | 0.00 | |
| 6,000.0 | 10.07 | 245.36 | 5,917.3 | -397.3 | -866.1 | -397.3 | 0.00 | 0.00 | |
| 6,100.0 | 10.07 | 245.36 | 6,015.8 | -404.6 | -882.0 | -404.6 | 0.00 | 0.00 | |
| 6,200.0 | 10.07 | 245.36 | 6,114.2 | -411.8 | -897.9 | -411.8 | 0.00 | 0.00 | |
| 6,300.0 | 10.07 | 245.36 | 6,212.7 | -419.1 | -913.8 | -419.1 | 0.00 | 0.00 | |
| 6,399.8 | 10.07 | 245.36 | 6,311.0 | -426.4 | -929.7 | -426.4 | 0.00 | 0.00 | Teepee Buttes (*if present) |
| 6,400.0 | 10.07 | 245.36 | 6,311.2 | -426.4 | -929.7 | -426.4 | 0.00 | 0.00 | |
| 6,500.0 | 10.07 | 245.36 | 6,409.6 | -433.7 | -945.6 | -433.7 | 0.00 | 0.00 | |
| 6,600.0 | 10.07 | 245.36 | 6,508.1 | -441.0 | -961.5 | -441.0 | 0.00 | 0.00 | |
| 6,700.0 | 10.07 | 245.36 | 6,606.5 | -448.3 | -977.4 | -448.3 | 0.00 | 0.00 | |
| 6,800.0 | 10.07 | 245.36 | 6,705.0 | -455.6 | -993.3 | -455.6 | 0.00 | 0.00 | |
| 6,900.0 | 10.07 | 245.36 | 6,803.5 | -462.9 | -1,009.2 | -462.9 | 0.00 | 0.00 | |
| 7,000.0 | 10.07 | 245.36 | 6,901.9 | -470.2 | -1,025.1 | -470.2 | 0.00 | 0.00 | |
| 7,020.5 | 10.07 | 245.36 | 6,922.1 | -471.7 | -1,028.4 | -471.7 | 0.00 | 0.00 | Start build/turn @ 7020' MD |
| 7,100.0 | 9.91 | 292.44 | 7,000.5 | -472.0 | -1,041.0 | -472.0 | 10.00 | -0.21 | |
| 7,200.0 | 16.49 | 326.95 | 7,098.0 | -456.7 | -1,056.8 | -456.7 | 10.00 | 6.58 | |
| 7,291.9 | 24.63 | 339.38 | 7,184.0 | -427.8 | -1,070.6 | -427.8 | 10.00 | 8.85 | Sharon Springs |
| 7,300.0 | 25.38 | 340.10 | 7,191.3 | -424.6 | -1,071.8 | -424.6 | 10.00 | 9.26 | |
| 7,365.6 | 31.56 | 344.76 | 7,249.0 | -394.8 | -1,081.1 | -394.8 | 10.00 | 9.42 | Niobrara |
| 7,400.0 | 34.85 | 346.59 | 7,277.8 | -376.5 | -1,085.8 | -376.5 | 10.00 | 9.57 | |
| 7,423.8 | 37.14 | 347.69 | 7,297.0 | -362.9 | -1,088.9 | -362.9 | 10.00 | 9.62 | B Chalk |
| 7,465.1 | 41.13 | 349.35 | 7,329.0 | -337.4 | -1,094.1 | -337.4 | 10.00 | 9.68 | B Marl |
| 7,500.0 | 44.53 | 350.55 | 7,354.6 | -314.0 | -1,098.2 | -314.0 | 10.00 | 9.72 | |
| 7,523.4 | 46.81 | 351.28 | 7,371.0 | -297.5 | -1,100.8 | -297.5 | 10.00 | 9.75 | C Chalk |
| 7,600.0 | 54.30 | 353.34 | 7,419.6 | -238.9 | -1,108.7 | -238.9 | 10.00 | 9.78 | |
| 7,653.9 | 59.59 | 354.56 | 7,449.0 | -194.0 | -1,113.4 | -194.0 | 10.00 | 9.82 | C Marl |
| 7,700.0 | 64.13 | 355.51 | 7,470.7 | -153.5 | -1,116.9 | -153.5 | 10.00 | 9.84 | |
| 7,762.7 | 70.30 | 356.69 | 7,495.0 | -95.9 | -1,120.9 | -95.9 | 10.00 | 9.85 | Ft. Hayes |
| 7,800.0 | 73.98 | 357.34 | 7,506.4 | -60.4 | -1,122.7 | -60.4 | 10.00 | 9.86 | |
| 7,854.4 | 79.35 | 358.26 | 7,519.0 | -7.5 | -1,124.7 | -7.5 | 10.00 | 9.86 | Codell |
| 7,900.0 | 83.85 | 359.00 | 7,525.7 | 37.6 | -1,125.8 | 37.6 | 10.00 | 9.87 | |
| 7,962.3 | 90.00 | 0.00 | 7,529.0 | 99.8 | -1,126.3 | 99.8 | 10.00 | 9.87 | LP @ 7529' TVD; 90° |
| 8,000.0 | 90.00 | 0.00 | 7,529.0 | 137.4 | -1,126.3 | 137.4 | 0.00 | 0.00 | |
| 8,100.0 | 90.00 | 0.00 | 7,529.0 | 237.4 | -1,126.3 | 237.4 | 0.00 | 0.00 | |
| 8,200.0 | 90.00 | 0.00 | 7,529.0 | 337.4 | -1,126.3 | 337.4 | 0.00 | 0.00 | |
| 8,300.0 | 90.00 | 0.00 | 7,529.0 | 437.4 | -1,126.3 | 437.4 | 0.00 | 0.00 | |
| 8,400.0 | 90.00 | 0.00 | 7,529.0 | 537.4 | -1,126.3 | 537.4 | 0.00 | 0.00 | |
| 8,500.0 | 90.00 | 0.00 | 7,529.0 | 637.4 | -1,126.3 | 637.4 | 0.00 | 0.00 | |
| 8,600.0 | 90.00 | 0.00 | 7,529.0 | 737.4 | -1,126.3 | 737.4 | 0.00 | 0.00 | |
| 8,700.0 | 90.00 | 0.00 | 7,529.0 | 837.4 | -1,126.3 | 837.4 | 0.00 | 0.00 | |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site: | S9-T2N-R67W (Sprague) | North Reference: | True |
| Well: | Sprague 3B-9H-N267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

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 | 0.00 | 7,529.0 | 937.4 | -1,126.3 | 937.4 | 0.00 | 0.00 | |
| 8,900.0 | 90.00 | 0.00 | 7,529.0 | 1,037.4 | -1,126.3 | 1,037.4 | 0.00 | 0.00 | |
| 9,000.0 | 90.00 | 0.00 | 7,529.0 | 1,137.4 | -1,126.3 | 1,137.4 | 0.00 | 0.00 | |
| 9,100.0 | 90.00 | 0.00 | 7,529.0 | 1,237.4 | -1,126.3 | 1,237.4 | 0.00 | 0.00 | |
| 9,200.0 | 90.00 | 0.00 | 7,529.0 | 1,337.4 | -1,126.3 | 1,337.4 | 0.00 | 0.00 | |
| 9,300.0 | 90.00 | 0.00 | 7,529.0 | 1,437.4 | -1,126.3 | 1,437.4 | 0.00 | 0.00 | |
| 9,400.0 | 90.00 | 0.00 | 7,529.0 | 1,537.4 | -1,126.3 | 1,537.4 | 0.00 | 0.00 | |
| 9,500.0 | 90.00 | 0.00 | 7,529.0 | 1,637.4 | -1,126.3 | 1,637.4 | 0.00 | 0.00 | |
| 9,600.0 | 90.00 | 0.00 | 7,529.0 | 1,737.4 | -1,126.3 | 1,737.4 | 0.00 | 0.00 | |
| 9,700.0 | 90.00 | 0.00 | 7,529.0 | 1,837.4 | -1,126.3 | 1,837.4 | 0.00 | 0.00 | |
| 9,800.0 | 90.00 | 0.00 | 7,529.0 | 1,937.4 | -1,126.3 | 1,937.4 | 0.00 | 0.00 | |
| 9,900.0 | 90.00 | 0.00 | 7,529.0 | 2,037.4 | -1,126.3 | 2,037.4 | 0.00 | 0.00 | |
| 10,000.0 | 90.00 | 0.00 | 7,529.0 | 2,137.4 | -1,126.3 | 2,137.4 | 0.00 | 0.00 | |
| 10,100.0 | 90.00 | 0.00 | 7,529.0 | 2,237.4 | -1,126.3 | 2,237.4 | 0.00 | 0.00 | |
| 10,200.0 | 90.00 | 0.00 | 7,529.0 | 2,337.4 | -1,126.3 | 2,337.4 | 0.00 | 0.00 | |
| 10,300.0 | 90.00 | 0.00 | 7,529.0 | 2,437.4 | -1,126.3 | 2,437.4 | 0.00 | 0.00 | |
| 10,400.0 | 90.00 | 0.00 | 7,529.0 | 2,537.4 | -1,126.3 | 2,537.4 | 0.00 | 0.00 | |
| 10,500.0 | 90.00 | 0.00 | 7,529.0 | 2,637.4 | -1,126.3 | 2,637.4 | 0.00 | 0.00 | |
| 10,600.0 | 90.00 | 0.00 | 7,529.0 | 2,737.4 | -1,126.3 | 2,737.4 | 0.00 | 0.00 | |
| 10,700.0 | 90.00 | 0.00 | 7,529.0 | 2,837.4 | -1,126.3 | 2,837.4 | 0.00 | 0.00 | |
| 10,800.0 | 90.00 | 0.00 | 7,529.0 | 2,937.4 | -1,126.3 | 2,937.4 | 0.00 | 0.00 | |
| 10,900.0 | 90.00 | 0.00 | 7,529.0 | 3,037.4 | -1,126.3 | 3,037.4 | 0.00 | 0.00 | |
| 11,000.0 | 90.00 | 0.00 | 7,529.0 | 3,137.4 | -1,126.3 | 3,137.4 | 0.00 | 0.00 | |
| 11,100.0 | 90.00 | 0.00 | 7,529.0 | 3,237.4 | -1,126.3 | 3,237.4 | 0.00 | 0.00 | |
| 11,200.0 | 90.00 | 0.00 | 7,529.0 | 3,337.4 | -1,126.3 | 3,337.4 | 0.00 | 0.00 | |
| 11,300.0 | 90.00 | 0.00 | 7,529.0 | 3,437.4 | -1,126.3 | 3,437.4 | 0.00 | 0.00 | |
| 11,400.0 | 90.00 | 0.00 | 7,529.0 | 3,537.4 | -1,126.3 | 3,537.4 | 0.00 | 0.00 | |
| 11,500.0 | 90.00 | 0.00 | 7,529.0 | 3,637.4 | -1,126.3 | 3,637.4 | 0.00 | 0.00 | |
| 11,600.0 | 90.00 | 0.00 | 7,529.0 | 3,737.4 | -1,126.3 | 3,737.4 | 0.00 | 0.00 | |
| 11,700.0 | 90.00 | 0.00 | 7,529.0 | 3,837.4 | -1,126.3 | 3,837.4 | 0.00 | 0.00 | |
| 11,800.0 | 90.00 | 0.00 | 7,529.0 | 3,937.4 | -1,126.3 | 3,937.4 | 0.00 | 0.00 | |
| 11,900.0 | 90.00 | 0.00 | 7,529.0 | 4,037.4 | -1,126.3 | 4,037.4 | 0.00 | 0.00 | |
| 12,000.0 | 90.00 | 0.00 | 7,529.0 | 4,137.4 | -1,126.3 | 4,137.4 | 0.00 | 0.00 | |
| 12,100.0 | 90.00 | 0.00 | 7,529.0 | 4,237.4 | -1,126.3 | 4,237.4 | 0.00 | 0.00 | |
| 12,200.0 | 90.00 | 0.00 | 7,529.0 | 4,337.4 | -1,126.3 | 4,337.4 | 0.00 | 0.00 | |
| 12,300.0 | 90.00 | 0.00 | 7,529.0 | 4,437.4 | -1,126.3 | 4,437.4 | 0.00 | 0.00 | |
| 12,400.0 | 90.00 | 0.00 | 7,529.0 | 4,537.4 | -1,126.3 | 4,537.4 | 0.00 | 0.00 | |
| 12,500.0 | 90.00 | 0.00 | 7,529.0 | 4,637.4 | -1,126.3 | 4,637.4 | 0.00 | 0.00 | |
| 12,600.0 | 90.00 | 0.00 | 7,529.0 | 4,737.4 | -1,126.3 | 4,737.4 | 0.00 | 0.00 | |
| 12,700.0 | 90.00 | 0.00 | 7,529.0 | 4,837.4 | -1,126.3 | 4,837.4 | 0.00 | 0.00 | |
| 12,800.0 | 90.00 | 0.00 | 7,529.0 | 4,937.4 | -1,126.3 | 4,937.4 | 0.00 | 0.00 | |
| 12,900.0 | 90.00 | 0.00 | 7,529.0 | 5,037.4 | -1,126.3 | 5,037.4 | 0.00 | 0.00 | |
| 13,000.0 | 90.00 | 0.00 | 7,529.0 | 5,137.4 | -1,126.3 | 5,137.4 | 0.00 | 0.00 | |
| 13,097.3 | 90.00 | 0.00 | 7,529.0 | 5,234.8 | -1,126.3 | 5,234.8 | 0.00 | 0.00 | TD at 13097.3 |

Planning Report

| | | | |
|------------------|-----------------------------|-------------------------------------|--------------------------------------|
| Database: | USA EDM 5000 Multi Users DB | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Company: | EnCana Oil & Gas (USA) Inc | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Project: | DJ Wattenberg | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site: | S9-T2N-R67W (Sprague) | North Reference: | True |
| Well: | Sprague 3B-9H-N267 | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | Hz | | |
| Design: | Plan #2 | | |

| Targets | | | | | | | | | |
|---|-----------|----------|---------|---------|----------|--------------|--------------|-----------|-------------|
| Target Name | Dip Angle | Dip Dir. | TVD | +N/-S | +E/-W | Northing | Easting | Latitude | Longitude |
| - hit/miss target | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | |
| - Shape | | | | | | | | | |
| Sprague 3B-9H-N267 PI | 0.00 | 0.00 | 7,529.0 | 5,234.8 | -1,126.3 | 1,302,202.52 | 3,166,967.17 | 40.161390 | -104.902620 |
| - plan hits target center | | | | | | | | | |
| - Point | | | | | | | | | |
| Sprague 3B-9H-N267 PI | 0.00 | 0.00 | 7,529.0 | 5,234.8 | -1,176.7 | 1,302,202.18 | 3,166,916.86 | 40.161390 | -104.902800 |
| - plan misses target center by 50.3ft at 13097.3ft MD (7529.0 TVD, 5234.8 N, -1126.3 E) | | | | | | | | | |
| - Point | | | | | | | | | |

| Formations | | | | | | |
|----------------|----------------|-----------------------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name | Lithology | Dip | Dip Direction | |
| (ft) | (ft) | | | (°) | (°) | |
| 461.1 | 461.0 | Fox Hills - BASE | | | | |
| 4,477.2 | 4,418.0 | Sussex | | | | |
| 4,728.1 | 4,665.0 | Sussex Marker | | | | |
| 5,030.7 | 4,963.0 | Shannon | | | | |
| 6,399.8 | 6,311.0 | Teepee Buttes (*if present) | | | | |
| 7,291.9 | 7,184.0 | Sharon Springs | | | | |
| 7,365.6 | 7,249.0 | Niobrara | | | | |
| 7,423.8 | 7,297.0 | B Chalk | | | | |
| 7,465.1 | 7,329.0 | B Marl | | | | |
| 7,523.4 | 7,371.0 | C Chalk | | | | |
| 7,653.9 | 7,449.0 | C Marl | | | | |
| 7,762.7 | 7,495.0 | Ft. Hayes | | | | |
| 7,854.4 | 7,519.0 | Codell | | | | |

| Plan Annotations | | | | |
|------------------|----------------|-------------------|------------|-----------------------------|
| Measured Depth | Vertical Depth | Local Coordinates | | Comment |
| (ft) | (ft) | +N/-S (ft) | +E/-W (ft) | |
| 300.0 | 300.0 | 0.0 | 0.0 | KOP @ 300' |
| 803.6 | 801.0 | -18.4 | -40.1 | EOB; Inc=10° |
| 7,020.5 | 6,922.1 | -471.7 | -1,028.4 | Start build/turn @ 7020' MD |
| 7,962.3 | 7,529.0 | 99.8 | -1,126.3 | LP @ 7529' TVD; 90° |
| 13,097.3 | 7,529.0 | 5,234.8 | -1,126.3 | TD at 13097.3 |

EnCana Oil & Gas (USA) Inc

DJ Wattenberg

S9-T2N-R67W (Sprague)

Sprague 3B-9H-N267

Hz

Plan #2

Anticollision Report

11 December, 2013

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| | | | |
|-------------------------------------|---|-----------------------|---------------------|
| Reference | Plan #2 | | |
| Filter type: | NO GLOBAL FILTER: Using user defined selection & filtering criteria | | |
| Interpolation Method: | MD Interval 100.0ft | Error Model: | Systematic Ellipse |
| Depth Range: | Unlimited | Scan Method: | Closest Approach 3D |
| Results Limited by: | Maximum center-center distance of 1,211.4ft | Error Surface: | Elliptical Conic |
| Warning Levels Evaluated at: | 2.00 Sigma | | |

| | | | | | |
|----------------------------|----------------|--------------------------|------------------|--------------------|--|
| Survey Tool Program | | Date | 12/11/2013 | | |
| From (ft) | To (ft) | Survey (Wellbore) | Tool Name | Description | |
| 0.0 | 13,097.3 | Plan #2 (Hz) | Geolink MWD | Geolink MWD | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|--|--|-------------------------------------|--|---|----------------------|---------------------|
| Offset Well - Wellbore - Design | | | | | | |
| S9-T2N-R67W (Sprague) | | | | | | |
| BARNES 34-4 (EXISTING) - ENCANA WELL - ENCANA | | | | | | Out of range |
| DIER 1 (EXISTING) - ENCANA WELL - NO SURVEYS | 9,362.4 | 7,459.0 | 1,210.5 | 1,166.4 | 27.413 | CC |
| DIER 1 (EXISTING) - ENCANA WELL - NO SURVEYS | 9,400.0 | 7,459.0 | 1,211.1 | 1,166.4 | 27.063 | ES, SF |
| DIER 8-4-8 (EXISTING) - ENCANA WELL - SURVEYS | 9,926.2 | 7,583.8 | 667.7 | 611.3 | 11.857 | CC, ES |
| DIER 8-4-8 (EXISTING) - ENCANA WELL - SURVEYS | 10,100.0 | 7,588.8 | 689.9 | 630.7 | 11.655 | SF |
| DIER 8-6-8 (EXISTING) - ENCANA WELL - SURVEYS | 8,627.4 | 7,562.5 | 673.4 | 634.0 | 17.084 | CC, ES |
| DIER 8-6-8 (EXISTING) - ENCANA WELL - SURVEYS | 8,800.0 | 7,562.1 | 695.2 | 653.4 | 16.649 | SF |
| ECKSTINE V 9-10 (EXISTING) - NOBLE WELL - NO SU | | | | | | Out of range |
| ECKSTINE V 9-15 (EXISTING) - NOBLE WELL - NO SU | | | | | | Out of range |
| ECKSTINE V 9-16 (EXISTING) - NOBLE WELL - NO SU | | | | | | Out of range |
| KATHERINE 1 (EXISTING) - MACEY-MERSHON WELL | | | | | | Out of range |
| LUHMAN 1 (EXISTING) - ENCANA WELL - Exising | | | | | | Out of range |
| LUHMAN 44-4 (EXISTING) - ENCANA WELL - NO SURV | | | | | | Out of range |
| SATER 40N-5HZ (EXISTING) - KERR-MCGEE WELL - S | 13,097.3 | 10,260.3 | 1,120.2 | 968.6 | 7.390 | CC, ES, SF |
| SHELEY 1 (EXISTING) - ENCANA WELL - NO SURVEY | | | | | | Out of range |
| SHELEY 14-4 (EXISTING) - ENCANA WELL - NO SURV | 13,097.3 | 7,428.0 | 393.9 | 286.4 | 3.664 | CC, ES, SF |
| SHELEY 24-4 (EXISTING MR) - MACHII-ROSS WELL - | | | | | | Out of range |
| SHELEY 24-4 (EXISTING) - ENCANA WELL - NO SURV | | | | | | Out of range |
| SHELEY 3A-4H (EXISTING) - ENCANA WELL - SURVE | 13,097.3 | 7,555.4 | 408.5 | 363.3 | 9.030 | CC, ES, SF |
| SHELEY 3B-4H (EXISTING) - ENCANA WELL - Plan #4 | | | | | | Out of range |
| SHELEY 3B-4H (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| SHELEY 4-6-4 (EXISTING) - ENCANA WELL - Plan #2 | | | | | | Out of range |
| SHELEY 4-6-4 (EXISTING) - ENCANA WELL - SURVEY | | | | | | Out of range |
| SPRAGUE 1 (EXISTING) - ENCANA WELL - NO SURVE | | | | | | Out of range |
| SPRAGUE 1 (EXISTING) MACHII - MACHII-ROSS WEL | 1,150.4 | 1,105.4 | 573.5 | 568.8 | 121.290 | CC |
| SPRAGUE 1 (EXISTING) MACHII - MACHII-ROSS WEL | 1,200.0 | 1,154.3 | 573.5 | 568.6 | 115.087 | ES |
| SPRAGUE 1 (EXISTING) MACHII - MACHII-ROSS WEL | 8,600.0 | 7,492.0 | 833.6 | 800.5 | 25.237 | SF |
| SPRAGUE 11-9 (EXISTING) - ENCANA WELL - NO SUR | 11,983.3 | 7,460.0 | 119.6 | 31.3 | 1.355 | Level 3, CC, ES, SF |
| SPRAGUE 13-9 (EXISTING) - ENCANA WELL - NO SUR | 9,350.7 | 7,490.0 | 98.5 | 54.5 | 2.237 | CC, ES, SF |
| SPRAGUE 14-9 (EXISTING) - ENCANA WELL - NO SUR | 8,011.9 | 7,488.0 | 100.4 | 73.1 | 3.681 | CC, ES, SF |
| SPRAGUE 1-9 (EXISTING) - MACHII-ROSS WELL - NO | 11,312.7 | 7,455.0 | 942.4 | 865.7 | 12.283 | CC, ES |
| SPRAGUE 1-9 (EXISTING) - MACHII-ROSS WELL - NO | 11,500.0 | 7,455.0 | 960.9 | 880.9 | 12.020 | SF |
| SPRAGUE 2 (EXISTING) - MACHII-ROSS WELL - NO S | 11,263.9 | 7,492.0 | 722.7 | 646.8 | 9.516 | CC, ES |
| SPRAGUE 2 (EXISTING) - MACHII-ROSS WELL - NO S | 11,400.0 | 7,492.0 | 735.4 | 657.2 | 9.394 | SF |
| Sprague 21-9 - DD - Plan #1 | | | | | | Out of range |
| SPRAGUE 22-9 J (EXISTING) - MACHII-ROSS WELL - | | | | | | Out of range |
| SPRAGUE 23-9 J (EXISTING) - MACHII-ROSS WELL - | | | | | | Out of range |
| SPRAGUE 24-9 (EXISTING) - ENCANA WELL - NO SUR | 300.0 | 269.0 | 267.6 | 266.7 | 284.442 | CC, ES |
| SPRAGUE 24-9 (EXISTING) - ENCANA WELL - NO SUR | 6,100.0 | 5,984.8 | 1,202.7 | 1,181.5 | 56.777 | SF |
| SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - Plan #1 | 9,923.1 | 7,570.4 | 668.8 | 611.9 | 11.747 | CC, ES |
| SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - Plan #1 | 10,100.0 | 7,570.4 | 691.8 | 631.9 | 11.556 | SF |
| SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - SURVE | 9,900.2 | 7,588.7 | 667.7 | 611.3 | 11.854 | CC, ES |
| SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - SURVE | 10,000.0 | 7,592.3 | 675.1 | 617.1 | 11.644 | SF |
| SPRAGUE 24-9 J (EXISTING) - MACHII-ROSS WELL - | 300.0 | 276.0 | 234.3 | 233.3 | 245.787 | CC, ES |
| SPRAGUE 24-9 J (EXISTING) - MACHII-ROSS WELL - | 6,100.0 | 5,991.8 | 1,204.4 | 1,183.5 | 57.412 | SF |
| SPRAGUE 2-8-9 (EXISTING) - ENCANA WELL - SURVE | 3,221.4 | 3,244.5 | 214.4 | 193.1 | 10.071 | CC |
| SPRAGUE 2-8-9 (EXISTING) - ENCANA WELL - SURVE | 3,900.0 | 3,922.6 | 219.3 | 192.6 | 8.202 | ES |
| SPRAGUE 2-8-9 (EXISTING) - ENCANA WELL - SURVE | 4,300.0 | 4,318.3 | 225.4 | 196.7 | 7.859 | SF |
| SPRAGUE 31-9 (EXISTING) - ENCANA WELL - Plan #3 | | | | | | Out of range |
| SPRAGUE 31-9 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| SPRAGUE 32-9 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| SPRAGUE 33-9 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| SPRAGUE 34-9 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

Summary

| Site Name | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distance Between Centres (ft) | Distance Between Ellipses (ft) | Separation Factor | Warning |
|---|--|-------------------------------------|--|---|----------------------|--------------|
| Offset Well - Wellbore - Design | | | | | | |
| S9-T2N-R67W (Sprague) | | | | | | |
| SPRAGUE 3-9 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| Sprague 3A-9H-N267 - Hz - Plan #1 | 200.0 | 200.0 | 11.2 | 10.6 | 18.844 | CC, ES |
| Sprague 3A-9H-N267 - Hz - Plan #1 | 13,097.3 | 12,963.2 | 457.2 | 290.5 | 2.742 | SF |
| Sprague 3C-9H-N267 - Hz - Plan #1 | 300.0 | 300.0 | 8.4 | 7.4 | 8.898 | CC, ES |
| Sprague 3C-9H-N267 - Hz - Plan #1 | 13,097.3 | 12,840.5 | 372.5 | 219.2 | 2.429 | SF |
| Sprague 3D-9H-N267 - Hz - Plan #1 | 300.0 | 300.0 | 19.6 | 18.6 | 20.763 | CC, ES |
| Sprague 3D-9H-N267 - Hz - Plan #1 | 13,097.3 | 12,876.7 | 651.4 | 463.4 | 3.465 | SF |
| Sprague 3E-9H-N267 - Hz - Plan #1 | 323.7 | 323.9 | 27.6 | 26.5 | 26.819 | CC, ES |
| Sprague 3E-9H-N267 - Hz - Plan #1 | 13,097.3 | 12,772.4 | 1,024.3 | 840.7 | 5.578 | SF |
| Sprague 3F-9H-N267 - Hz - Plan #1 | 300.0 | 300.0 | 39.1 | 38.2 | 41.526 | CC, ES |
| Sprague 3F-9H-N267 - Hz - Plan #1 | 600.0 | 599.2 | 54.0 | 52.0 | 27.133 | SF |
| Sprague 3G-9H-N267 - Hz - Plan #1 | 300.0 | 300.0 | 50.3 | 49.4 | 53.390 | CC, ES |
| Sprague 3G-9H-N267 - Hz - Plan #1 | 600.0 | 597.9 | 67.2 | 65.2 | 33.729 | SF |
| Sprague 3H-9H-N267 - Hz - Plan #2 | 300.0 | 300.0 | 58.7 | 57.8 | 62.289 | CC, ES |
| Sprague 3H-9H-N267 - Hz - Plan #2 | 600.0 | 595.2 | 78.8 | 76.8 | 39.573 | SF |
| Sprague 3I-9H-N267 - Hz - Plan #2 | 300.0 | 300.0 | 70.0 | 69.0 | 74.253 | CC, ES |
| Sprague 3I-9H-N267 - Hz - Plan #2 | 600.0 | 590.7 | 98.2 | 96.2 | 49.394 | SF |
| Sprague 3J-9H-N267 - Hz - Plan #2 | 200.0 | 200.0 | 78.4 | 77.8 | 132.048 | CC, ES |
| Sprague 3J-9H-N267 - Hz - Plan #2 | 600.0 | 585.1 | 118.6 | 116.7 | 59.992 | SF |
| SPRAGUE 41-9 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| SPRAGUE 42-9 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| SPRAGUE 43-9 (EXISTING) - ENCANA WELL - GYRO | | | | | | Out of range |
| SPRAGUE 44-9 (EXISTING) - ENCANA WELL - NO SUR | | | | | | Out of range |
| SPRAGUE 4-6-9 (EXISTING) - ENCANA WELL - SURVE | 168.8 | 151.2 | 273.3 | 272.8 | 558.656 | CC |
| SPRAGUE 4-6-9 (EXISTING) - ENCANA WELL - SURVE | 200.0 | 181.5 | 273.3 | 272.7 | 458.226 | ES |
| SPRAGUE 4-6-9 (EXISTING) - ENCANA WELL - SURVE | 1,900.0 | 1,703.6 | 739.4 | 732.3 | 104.784 | SF |
| SPRAGUE 4-8-9 (EXISTING) - ENCANA WELL - SURVE | 310.0 | 293.2 | 267.3 | 266.3 | 271.264 | CC, ES |
| SPRAGUE 4-8-9 (EXISTING) - ENCANA WELL - SURVE | 3,800.0 | 3,580.8 | 1,191.5 | 1,175.9 | 76.259 | SF |
| SPRAGUE 6-0-9 (EXISTING) - ENCANA WELL - PLAN O | | | | | | Out of range |
| SPRAGUE 6-4-9 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| SPRAGUE 8-6-9 (EXISTING) - ENCANA WELL - SURVE | | | | | | Out of range |
| SPRAGUE V 9-1 (EXISTING) - NOBLE WELL - NO SUR | | | | | | Out of range |
| SPRAGUE V 9-7 (EXISTING) - NOBLE WELL - NO SUR | | | | | | Out of range |
| SPRAGUE V 9-8 (EXISTING) - NOBLE WELL - NO SUR | | | | | | Out of range |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| | | | | | | | | | | | | | |
|---|----------------|----------------|----------------|-----------------|--------|-------------------|------------------------------|----------|-----------------|------------------|------------------------|-------------------|----------------------------------|
| Offset Design S9-T2N-R67W (Sprague) - DIER 1 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
| Survey Program: 8075-Geolink MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | Offset Wellbore Centre +N/-S | +E/-W | Between Centres | Between Ellipses | Total Uncertainty Axis | Separation Factor | Warning |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | | | |
| 9,362.4 | 7,529.0 | 7,459.0 | 7,459.0 | 36.9 | 13.0 | -90.00 | 1,499.9 | -2,336.9 | 1,210.5 | 1,166.4 | 44.16 | 27.413 CC | |
| 9,400.0 | 7,529.0 | 7,459.0 | 7,459.0 | 37.4 | 13.0 | -90.00 | 1,499.9 | -2,336.9 | 1,211.1 | 1,166.4 | 44.75 | 27.063 ES, SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - DIER 8-4-8 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|---------------|--------------------|--------|
| Survey Program: 78-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) | | | | | | |
| 9,000.0 | 7,529.0 | 7,557.2 | 7,467.2 | 32.4 | 18.8 | -89.02 | 2,062.8 | -1,794.4 | 1,141.4 | 1,099.9 | 41.56 | 27.467 | | |
| 9,100.0 | 7,529.0 | 7,560.0 | 7,470.1 | 33.6 | 18.8 | -89.27 | 2,062.9 | -1,794.4 | 1,062.0 | 1,018.9 | 43.07 | 24.659 | | |
| 9,200.0 | 7,529.0 | 7,562.9 | 7,473.0 | 34.8 | 18.8 | -89.52 | 2,063.0 | -1,794.3 | 986.2 | 941.6 | 44.60 | 22.110 | | |
| 9,300.0 | 7,529.0 | 7,565.8 | 7,475.8 | 36.1 | 18.8 | -89.76 | 2,063.1 | -1,794.2 | 915.2 | 869.0 | 46.17 | 19.823 | | |
| 9,400.0 | 7,529.0 | 7,568.7 | 7,478.7 | 37.4 | 18.8 | -90.01 | 2,063.2 | -1,794.2 | 849.9 | 802.2 | 47.75 | 17.800 | | |
| 9,500.0 | 7,529.0 | 7,571.5 | 7,481.6 | 38.8 | 18.8 | -90.26 | 2,063.2 | -1,794.1 | 792.0 | 742.6 | 49.35 | 16.048 | | |
| 9,600.0 | 7,529.0 | 7,574.4 | 7,484.4 | 40.2 | 18.8 | -90.50 | 2,063.3 | -1,794.0 | 743.0 | 692.0 | 50.96 | 14.579 | | |
| 9,700.0 | 7,529.0 | 7,577.3 | 7,487.3 | 41.6 | 18.8 | -90.75 | 2,063.4 | -1,794.0 | 704.9 | 652.3 | 52.59 | 13.403 | | |
| 9,800.0 | 7,529.0 | 7,580.1 | 7,490.2 | 43.0 | 18.8 | -90.99 | 2,063.5 | -1,793.9 | 679.5 | 625.2 | 54.23 | 12.530 | | |
| 9,900.0 | 7,529.0 | 7,583.0 | 7,493.1 | 44.5 | 18.8 | -91.24 | 2,063.6 | -1,793.8 | 668.2 | 612.3 | 55.88 | 11.958 | | |
| 9,926.2 | 7,529.0 | 7,583.8 | 7,493.8 | 44.9 | 18.8 | -91.30 | 2,063.6 | -1,793.8 | 667.7 | 611.3 | 56.31 | 11.857 CC, ES | | |
| 10,000.0 | 7,529.0 | 7,585.9 | 7,495.9 | 46.0 | 18.8 | -91.49 | 2,063.7 | -1,793.8 | 671.7 | 614.2 | 57.53 | 11.676 | | |
| 10,100.0 | 7,529.0 | 7,588.8 | 7,498.8 | 47.5 | 18.9 | -91.73 | 2,063.7 | -1,793.7 | 689.9 | 630.7 | 59.19 | 11.655 SF | | |
| 10,200.0 | 7,529.0 | 7,591.6 | 7,501.7 | 49.0 | 18.9 | -91.98 | 2,063.8 | -1,793.7 | 721.6 | 660.7 | 60.86 | 11.857 | | |
| 10,300.0 | 7,529.0 | 7,594.5 | 7,504.5 | 50.5 | 18.9 | -92.23 | 2,063.9 | -1,793.6 | 765.1 | 702.6 | 62.53 | 12.236 | | |
| 10,400.0 | 7,529.0 | 7,597.4 | 7,507.4 | 52.1 | 18.9 | -92.47 | 2,064.0 | -1,793.5 | 818.6 | 754.4 | 64.21 | 12.750 | | |
| 10,500.0 | 7,529.0 | 7,600.2 | 7,510.3 | 53.7 | 18.9 | -92.72 | 2,064.1 | -1,793.5 | 880.2 | 814.3 | 65.88 | 13.360 | | |
| 10,600.0 | 7,529.0 | 7,603.1 | 7,513.1 | 55.2 | 18.9 | -92.96 | 2,064.1 | -1,793.4 | 948.4 | 880.8 | 67.57 | 14.036 | | |
| 10,700.0 | 7,529.0 | 7,606.0 | 7,516.0 | 56.8 | 18.9 | -93.21 | 2,064.2 | -1,793.3 | 1,021.8 | 952.6 | 69.25 | 14.755 | | |
| 10,800.0 | 7,529.0 | 7,608.9 | 7,518.9 | 58.4 | 18.9 | -93.46 | 2,064.3 | -1,793.3 | 1,099.4 | 1,028.5 | 70.94 | 15.498 | | |
| 10,900.0 | 7,529.0 | 7,611.7 | 7,521.7 | 60.0 | 18.9 | -93.70 | 2,064.4 | -1,793.2 | 1,180.4 | 1,107.8 | 72.63 | 16.253 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - DIER 8-6-8 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 52-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 7,700.0 | 7,470.7 | 7,503.3 | 7,394.2 | 24.0 | 21.4 | -53.63 | 765.0 | -1,797.0 | 1,143.1 | 1,114.4 | 28.75 | 39.760 | | |
| 7,800.0 | 7,506.4 | 7,540.9 | 7,431.8 | 24.1 | 21.4 | -67.83 | 764.9 | -1,798.5 | 1,067.0 | 1,036.0 | 30.91 | 34.518 | | |
| 7,900.0 | 7,525.7 | 7,561.0 | 7,451.9 | 24.2 | 21.4 | -81.18 | 764.9 | -1,799.2 | 991.5 | 958.8 | 32.68 | 30.340 | | |
| 8,000.0 | 7,529.0 | 7,564.2 | 7,455.1 | 24.5 | 21.4 | -88.00 | 764.9 | -1,799.4 | 920.4 | 887.2 | 33.26 | 27.674 | | |
| 8,100.0 | 7,529.0 | 7,564.0 | 7,454.8 | 24.8 | 21.4 | -87.98 | 764.9 | -1,799.3 | 855.4 | 821.5 | 33.87 | 25.256 | | |
| 8,200.0 | 7,529.0 | 7,563.7 | 7,454.6 | 25.3 | 21.4 | -87.96 | 764.9 | -1,799.3 | 797.6 | 763.0 | 34.65 | 23.018 | | |
| 8,300.0 | 7,529.0 | 7,563.4 | 7,454.3 | 25.9 | 21.4 | -87.93 | 764.9 | -1,799.3 | 748.8 | 713.2 | 35.58 | 21.043 | | |
| 8,400.0 | 7,529.0 | 7,563.2 | 7,454.0 | 26.5 | 21.4 | -87.91 | 764.9 | -1,799.3 | 710.8 | 674.1 | 36.64 | 19.397 | | |
| 8,500.0 | 7,529.0 | 7,562.9 | 7,453.8 | 27.3 | 21.4 | -87.89 | 764.9 | -1,799.3 | 685.4 | 647.6 | 37.81 | 18.128 | | |
| 8,600.0 | 7,529.0 | 7,562.6 | 7,453.5 | 28.2 | 21.4 | -87.86 | 764.9 | -1,799.3 | 674.0 | 634.9 | 39.06 | 17.256 | | |
| 8,627.4 | 7,529.0 | 7,562.5 | 7,453.4 | 28.4 | 21.4 | -87.86 | 764.9 | -1,799.3 | 673.4 | 634.0 | 39.42 | 17.084 CC, ES | | |
| 8,700.0 | 7,529.0 | 7,562.4 | 7,453.2 | 29.1 | 21.4 | -87.84 | 764.9 | -1,799.3 | 677.3 | 636.9 | 40.38 | 16.775 | | |
| 8,800.0 | 7,529.0 | 7,562.1 | 7,453.0 | 30.1 | 21.4 | -87.82 | 764.9 | -1,799.3 | 695.2 | 653.4 | 41.75 | 16.649 SF | | |
| 8,900.0 | 7,529.0 | 7,561.8 | 7,452.7 | 31.2 | 21.4 | -87.79 | 764.9 | -1,799.3 | 726.5 | 683.3 | 43.18 | 16.824 | | |
| 9,000.0 | 7,529.0 | 7,561.6 | 7,452.4 | 32.4 | 21.4 | -87.77 | 764.9 | -1,799.3 | 769.6 | 725.0 | 44.65 | 17.236 | | |
| 9,100.0 | 7,529.0 | 7,561.3 | 7,452.2 | 33.6 | 21.4 | -87.75 | 764.9 | -1,799.2 | 822.7 | 776.5 | 46.15 | 17.826 | | |
| 9,200.0 | 7,529.0 | 7,561.0 | 7,451.9 | 34.8 | 21.4 | -87.73 | 764.9 | -1,799.2 | 883.9 | 836.2 | 47.68 | 18.538 | | |
| 9,300.0 | 7,529.0 | 7,560.8 | 7,451.6 | 36.1 | 21.4 | -87.70 | 764.9 | -1,799.2 | 951.7 | 902.5 | 49.23 | 19.331 | | |
| 9,400.0 | 7,529.0 | 7,560.5 | 7,451.4 | 37.4 | 21.4 | -87.68 | 764.9 | -1,799.2 | 1,024.9 | 974.0 | 50.81 | 20.171 | | |
| 9,500.0 | 7,529.0 | 7,560.2 | 7,451.1 | 38.8 | 21.4 | -87.66 | 764.9 | -1,799.2 | 1,102.2 | 1,049.8 | 52.40 | 21.034 | | |
| 9,600.0 | 7,529.0 | 7,560.0 | 7,450.8 | 40.2 | 21.4 | -87.64 | 764.9 | -1,799.2 | 1,182.9 | 1,128.9 | 54.01 | 21.903 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SATER 40N-5HZ (EXISTING) - KERR-MCGEE WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|--------|
| Survey Program: 1200-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 | | |
| 9,900.0 | 7,529.0 | 7,274.4 | 7,159.4 | 44.5 | 15.1 | -74.04 | 2,281.5 | -2,250.7 | 1,194.6 | 1,141.3 | 53.31 | 22.408 | | |
| 10,000.0 | 7,529.0 | 7,324.9 | 7,187.5 | 46.0 | 15.2 | -75.36 | 2,323.6 | -2,250.3 | 1,176.5 | 1,121.2 | 55.31 | 21.270 | | |
| 10,100.0 | 7,529.0 | 7,381.5 | 7,214.3 | 47.5 | 15.4 | -76.65 | 2,373.4 | -2,249.9 | 1,162.8 | 1,105.5 | 57.33 | 20.283 | | |
| 10,200.0 | 7,529.0 | 7,443.9 | 7,238.0 | 49.0 | 15.7 | -77.79 | 2,431.1 | -2,249.5 | 1,152.9 | 1,093.6 | 59.34 | 19.429 | | |
| 10,216.6 | 7,529.0 | 7,454.8 | 7,241.5 | 49.3 | 15.7 | -77.96 | 2,441.4 | -2,249.4 | 1,151.6 | 1,092.0 | 59.67 | 19.300 | | |
| 10,300.0 | 7,529.0 | 7,635.3 | 7,270.0 | 50.5 | 16.8 | -79.34 | 2,618.9 | -2,248.0 | 1,155.7 | 1,093.9 | 61.78 | 18.705 | | |
| 10,400.0 | 7,529.0 | 7,635.3 | 7,270.0 | 52.1 | 16.8 | -79.34 | 2,618.9 | -2,248.0 | 1,144.2 | 1,080.8 | 63.43 | 18.039 | | |
| 10,500.0 | 7,529.0 | 7,663.1 | 7,270.0 | 53.7 | 17.2 | -79.34 | 2,646.6 | -2,247.8 | 1,141.1 | 1,075.6 | 65.54 | 17.413 | | |
| 10,600.0 | 7,529.0 | 7,763.1 | 7,270.2 | 55.2 | 18.6 | -79.34 | 2,746.6 | -2,247.0 | 1,140.3 | 1,071.5 | 68.81 | 16.571 | | |
| 10,700.0 | 7,529.0 | 7,863.0 | 7,270.3 | 56.8 | 20.2 | -79.35 | 2,846.6 | -2,246.2 | 1,139.5 | 1,067.4 | 72.10 | 15.806 | | |
| 10,800.0 | 7,529.0 | 7,963.0 | 7,270.5 | 58.4 | 21.8 | -79.35 | 2,946.6 | -2,245.4 | 1,138.7 | 1,063.3 | 75.38 | 15.106 | | |
| 10,900.0 | 7,529.0 | 8,063.0 | 7,270.6 | 60.0 | 23.4 | -79.35 | 3,046.6 | -2,244.6 | 1,137.9 | 1,059.2 | 78.68 | 14.463 | | |
| 11,000.0 | 7,529.0 | 8,163.0 | 7,270.8 | 61.6 | 25.0 | -79.35 | 3,146.6 | -2,243.8 | 1,137.1 | 1,055.1 | 81.97 | 13.872 | | |
| 11,100.0 | 7,529.0 | 8,263.0 | 7,270.9 | 63.2 | 26.6 | -79.35 | 3,246.6 | -2,243.0 | 1,136.3 | 1,051.0 | 85.27 | 13.326 | | |
| 11,200.0 | 7,529.0 | 8,363.0 | 7,271.1 | 64.9 | 28.3 | -79.35 | 3,346.6 | -2,242.2 | 1,135.5 | 1,046.9 | 88.57 | 12.820 | | |
| 11,300.0 | 7,529.0 | 8,463.0 | 7,271.3 | 66.5 | 29.9 | -79.35 | 3,446.6 | -2,241.5 | 1,134.7 | 1,042.8 | 91.88 | 12.350 | | |
| 11,400.0 | 7,529.0 | 8,563.0 | 7,271.4 | 68.1 | 31.6 | -79.35 | 3,546.6 | -2,240.7 | 1,133.9 | 1,038.7 | 95.19 | 11.912 | | |
| 11,500.0 | 7,529.0 | 8,663.0 | 7,271.6 | 69.8 | 33.2 | -79.35 | 3,646.6 | -2,239.9 | 1,133.1 | 1,034.6 | 98.50 | 11.504 | | |
| 11,600.0 | 7,529.0 | 8,763.0 | 7,271.7 | 71.4 | 34.9 | -79.35 | 3,746.6 | -2,239.1 | 1,132.3 | 1,030.5 | 101.81 | 11.122 | | |
| 11,700.0 | 7,529.0 | 8,863.0 | 7,271.9 | 73.1 | 36.5 | -79.35 | 3,846.6 | -2,238.3 | 1,131.5 | 1,026.4 | 105.12 | 10.763 | | |
| 11,800.0 | 7,529.0 | 8,963.0 | 7,272.0 | 74.8 | 38.2 | -79.35 | 3,946.6 | -2,237.5 | 1,130.7 | 1,022.2 | 108.44 | 10.427 | | |
| 11,900.0 | 7,529.0 | 9,063.0 | 7,272.2 | 76.4 | 39.8 | -79.35 | 4,046.6 | -2,236.7 | 1,129.9 | 1,018.1 | 111.76 | 10.110 | | |
| 12,000.0 | 7,529.0 | 9,163.0 | 7,272.4 | 78.1 | 41.5 | -79.35 | 4,146.6 | -2,235.9 | 1,129.1 | 1,014.0 | 115.07 | 9.812 | | |
| 12,100.0 | 7,529.0 | 9,263.0 | 7,272.5 | 79.8 | 43.1 | -79.35 | 4,246.6 | -2,235.1 | 1,128.3 | 1,009.9 | 118.40 | 9.530 | | |
| 12,200.0 | 7,529.0 | 9,363.0 | 7,272.7 | 81.4 | 44.8 | -79.35 | 4,346.6 | -2,234.3 | 1,127.4 | 1,005.7 | 121.72 | 9.263 | | |
| 12,300.0 | 7,529.0 | 9,463.0 | 7,272.8 | 83.1 | 46.4 | -79.35 | 4,446.6 | -2,233.5 | 1,126.6 | 1,001.6 | 125.04 | 9.010 | | |
| 12,400.0 | 7,529.0 | 9,563.0 | 7,273.0 | 84.8 | 48.1 | -79.35 | 4,546.6 | -2,232.8 | 1,125.8 | 997.5 | 128.36 | 8.771 | | |
| 12,500.0 | 7,529.0 | 9,663.0 | 7,273.1 | 86.5 | 49.7 | -79.35 | 4,646.6 | -2,232.0 | 1,125.0 | 993.3 | 131.69 | 8.543 | | |
| 12,600.0 | 7,529.0 | 9,763.0 | 7,273.3 | 88.2 | 51.4 | -79.35 | 4,746.6 | -2,231.2 | 1,124.2 | 989.2 | 135.02 | 8.327 | | |
| 12,700.0 | 7,529.0 | 9,863.0 | 7,273.5 | 89.9 | 53.0 | -79.35 | 4,846.6 | -2,230.4 | 1,123.4 | 985.1 | 138.34 | 8.120 | | |
| 12,800.0 | 7,529.0 | 9,963.0 | 7,273.6 | 91.5 | 54.7 | -79.35 | 4,946.6 | -2,229.6 | 1,122.6 | 980.9 | 141.67 | 7.924 | | |
| 12,900.0 | 7,529.0 | 10,063.0 | 7,273.8 | 93.2 | 56.3 | -79.35 | 5,046.6 | -2,228.8 | 1,121.8 | 976.8 | 145.00 | 7.736 | | |
| 13,000.0 | 7,529.0 | 10,163.0 | 7,273.9 | 94.9 | 58.0 | -79.35 | 5,146.6 | -2,228.0 | 1,121.0 | 972.7 | 148.33 | 7.557 | | |
| 13,097.3 | 7,529.0 | 10,260.3 | 7,274.1 | 96.6 | 59.6 | -79.35 | 5,243.8 | -2,227.2 | 1,120.2 | 968.6 | 151.57 | 7.390 CC, ES, SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SHELEY 14-4 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|------------------|---------------------------|
| Survey Program: 8030-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 | Factor | |
| 12,200.0 | 7,529.0 | 7,428.0 | 7,428.0 | 81.4 | 13.0 | 90.00 | 5,434.4 | -786.8 | 1,148.3 | 1,056.3 | 91.96 | 12.488 | |
| 12,300.0 | 7,529.0 | 7,428.0 | 7,428.0 | 83.1 | 13.0 | 90.00 | 5,434.4 | -786.8 | 1,053.2 | 959.5 | 93.68 | 11.242 | |
| 12,400.0 | 7,529.0 | 7,428.0 | 7,428.0 | 84.8 | 13.0 | 90.00 | 5,434.4 | -786.8 | 959.1 | 863.7 | 95.41 | 10.052 | |
| 12,500.0 | 7,529.0 | 7,428.0 | 7,428.0 | 86.5 | 13.0 | 90.00 | 5,434.4 | -786.8 | 866.3 | 769.1 | 97.14 | 8.917 | |
| 12,600.0 | 7,529.0 | 7,428.0 | 7,428.0 | 88.2 | 13.0 | 90.00 | 5,434.4 | -786.8 | 775.3 | 676.4 | 98.88 | 7.841 | |
| 12,700.0 | 7,529.0 | 7,428.0 | 7,428.0 | 89.9 | 13.0 | 90.00 | 5,434.4 | -786.8 | 686.8 | 586.2 | 100.61 | 6.826 | |
| 12,800.0 | 7,529.0 | 7,428.0 | 7,428.0 | 91.5 | 13.0 | 90.00 | 5,434.4 | -786.8 | 601.9 | 499.5 | 102.34 | 5.881 | |
| 12,900.0 | 7,529.0 | 7,428.0 | 7,428.0 | 93.2 | 13.0 | 90.00 | 5,434.4 | -786.8 | 522.4 | 418.3 | 104.08 | 5.019 | |
| 13,000.0 | 7,529.0 | 7,428.0 | 7,428.0 | 94.9 | 13.0 | 90.00 | 5,434.4 | -786.8 | 451.1 | 345.3 | 105.81 | 4.263 | |
| 13,097.3 | 7,529.0 | 7,428.0 | 7,428.0 | 96.6 | 13.0 | 90.00 | 5,434.4 | -786.8 | 393.9 | 286.4 | 107.50 | 3.664 CC, ES, SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SHELEY 3A-4H (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|------------------|------------------|--------------------|--------|
| Survey Program: 162-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor | | |
| 12,300.0 | 7,529.0 | 7,583.8 | 7,198.0 | 83.1 | 14.8 | 25.09 | 5,543.0 | -1,011.6 | 1,138.2 | 1,090.8 | 47.38 | 24.023 | | |
| 12,400.0 | 7,529.0 | 7,581.1 | 7,197.4 | 84.8 | 14.8 | 24.53 | 5,543.1 | -1,014.3 | 1,041.3 | 993.8 | 47.45 | 21.944 | | |
| 12,500.0 | 7,529.0 | 7,578.2 | 7,196.8 | 86.5 | 14.8 | 23.92 | 5,543.3 | -1,017.1 | 945.1 | 897.6 | 47.45 | 19.917 | | |
| 12,600.0 | 7,529.0 | 7,570.0 | 7,195.1 | 88.2 | 14.7 | 22.21 | 5,543.8 | -1,025.1 | 849.7 | 803.7 | 46.06 | 18.448 | | |
| 12,700.0 | 7,529.0 | 7,570.0 | 7,195.1 | 89.9 | 14.7 | 22.21 | 5,543.8 | -1,025.1 | 755.5 | 708.7 | 46.73 | 16.166 | | |
| 12,800.0 | 7,529.0 | 7,570.0 | 7,195.1 | 91.5 | 14.7 | 22.21 | 5,543.8 | -1,025.1 | 662.9 | 615.5 | 47.40 | 13.984 | | |
| 12,900.0 | 7,529.0 | 7,570.0 | 7,195.1 | 93.2 | 14.7 | 22.21 | 5,543.8 | -1,025.1 | 572.9 | 524.8 | 48.08 | 11.916 | | |
| 13,000.0 | 7,529.0 | 7,559.7 | 7,192.7 | 94.9 | 14.7 | 20.03 | 5,544.5 | -1,035.1 | 486.5 | 440.7 | 45.86 | 10.608 | | |
| 13,097.3 | 7,529.0 | 7,555.4 | 7,191.6 | 96.6 | 14.7 | 19.12 | 5,544.8 | -1,039.2 | 408.5 | 363.3 | 45.24 | 9.030 CC, ES, SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 1 (EXISTING) MACHII - MACHII-ROSS WELL - NO SURVEYS | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 8036-Geolink MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -34.99 | 477.6 | -334.3 | 584.1 | | | | | | |
| 100.0 | 100.0 | 63.0 | 63.0 | 0.1 | 0.1 | -34.99 | 477.6 | -334.3 | 583.0 | 582.7 | 0.23 | 2,509.290 | | | |
| 200.0 | 200.0 | 163.0 | 163.0 | 0.3 | 0.3 | -34.99 | 477.6 | -334.3 | 583.0 | 582.4 | 0.58 | 1,002.728 | | | |
| 300.0 | 300.0 | 263.0 | 263.0 | 0.5 | 0.5 | -34.99 | 477.6 | -334.3 | 583.0 | 582.0 | 0.93 | 626.551 | | | |
| 400.0 | 400.0 | 363.0 | 363.0 | 0.6 | 0.6 | 79.82 | 477.6 | -334.3 | 582.7 | 581.4 | 1.28 | 454.410 | | | |
| 500.0 | 499.8 | 462.8 | 462.8 | 0.8 | 0.8 | 80.34 | 477.6 | -334.3 | 581.8 | 580.1 | 1.65 | 353.050 | | | |
| 600.0 | 599.5 | 562.5 | 562.5 | 1.1 | 1.0 | 81.22 | 477.6 | -334.3 | 580.4 | 578.3 | 2.04 | 284.448 | | | |
| 700.0 | 698.7 | 661.7 | 661.7 | 1.3 | 1.2 | 82.43 | 477.6 | -334.3 | 578.6 | 576.1 | 2.47 | 234.098 | | | |
| 800.0 | 797.5 | 760.5 | 760.5 | 1.6 | 1.3 | 83.99 | 477.6 | -334.3 | 576.7 | 573.8 | 2.95 | 195.313 | | | |
| 900.0 | 895.9 | 858.9 | 858.9 | 2.0 | 1.5 | 85.70 | 477.6 | -334.3 | 575.1 | 571.7 | 3.45 | 166.710 | | | |
| 1,000.0 | 994.4 | 957.4 | 957.4 | 2.3 | 1.7 | 87.42 | 477.6 | -334.3 | 574.1 | 570.1 | 3.96 | 145.090 | | | |
| 1,100.0 | 1,092.8 | 1,055.8 | 1,055.8 | 2.6 | 1.8 | 89.13 | 477.6 | -334.3 | 573.5 | 569.1 | 4.47 | 128.345 | | | |
| 1,150.4 | 1,142.4 | 1,105.4 | 1,105.4 | 2.8 | 1.9 | 90.00 | 477.6 | -334.3 | 573.5 | 568.8 | 4.73 | 121.290 CC | | | |
| 1,200.0 | 1,191.3 | 1,154.3 | 1,154.3 | 3.0 | 2.0 | 90.85 | 477.6 | -334.3 | 573.5 | 568.6 | 4.98 | 115.087 ES | | | |
| 1,300.0 | 1,289.8 | 1,252.8 | 1,252.8 | 3.3 | 2.2 | 92.57 | 477.6 | -334.3 | 574.1 | 568.6 | 5.50 | 104.393 | | | |
| 1,400.0 | 1,388.2 | 1,351.2 | 1,351.2 | 3.7 | 2.4 | 94.29 | 477.6 | -334.3 | 575.1 | 569.1 | 6.01 | 95.631 | | | |
| 1,500.0 | 1,486.7 | 1,449.7 | 1,449.7 | 4.0 | 2.5 | 95.99 | 477.6 | -334.3 | 576.7 | 570.2 | 6.53 | 88.355 | | | |
| 1,600.0 | 1,585.1 | 1,548.1 | 1,548.1 | 4.4 | 2.7 | 97.69 | 477.6 | -334.3 | 578.8 | 571.8 | 7.04 | 82.246 | | | |
| 1,700.0 | 1,683.6 | 1,646.6 | 1,646.6 | 4.7 | 2.9 | 99.37 | 477.6 | -334.3 | 581.5 | 573.9 | 7.54 | 77.069 | | | |
| 1,800.0 | 1,782.1 | 1,745.1 | 1,745.1 | 5.1 | 3.0 | 101.04 | 477.6 | -334.3 | 584.6 | 576.6 | 8.05 | 72.645 | | | |
| 1,900.0 | 1,880.5 | 1,843.5 | 1,843.5 | 5.4 | 3.2 | 102.68 | 477.6 | -334.3 | 588.3 | 579.7 | 8.55 | 68.840 | | | |
| 2,000.0 | 1,979.0 | 1,942.0 | 1,942.0 | 5.8 | 3.4 | 104.31 | 477.6 | -334.3 | 592.4 | 583.4 | 9.04 | 65.548 | | | |
| 2,100.0 | 2,077.4 | 2,040.4 | 2,040.4 | 6.1 | 3.6 | 105.91 | 477.6 | -334.3 | 597.0 | 587.5 | 9.52 | 62.685 | | | |
| 2,200.0 | 2,175.9 | 2,138.9 | 2,138.9 | 6.5 | 3.7 | 107.49 | 477.6 | -334.3 | 602.1 | 592.1 | 10.00 | 60.184 | | | |
| 2,300.0 | 2,274.3 | 2,237.3 | 2,237.3 | 6.8 | 3.9 | 109.04 | 477.6 | -334.3 | 607.7 | 597.2 | 10.48 | 57.993 | | | |
| 2,400.0 | 2,372.8 | 2,335.8 | 2,335.8 | 7.2 | 4.1 | 110.57 | 477.6 | -334.3 | 613.7 | 602.8 | 10.95 | 56.066 | | | |
| 2,500.0 | 2,471.3 | 2,434.3 | 2,434.3 | 7.5 | 4.2 | 112.06 | 477.6 | -334.3 | 620.2 | 608.7 | 11.41 | 54.368 | | | |
| 2,600.0 | 2,569.7 | 2,532.7 | 2,532.7 | 7.9 | 4.4 | 113.52 | 477.6 | -334.3 | 627.0 | 615.2 | 11.86 | 52.868 | | | |
| 2,700.0 | 2,668.2 | 2,631.2 | 2,631.2 | 8.2 | 4.6 | 114.95 | 477.6 | -334.3 | 634.3 | 622.0 | 12.31 | 51.540 | | | |
| 2,800.0 | 2,766.6 | 2,729.6 | 2,729.6 | 8.6 | 4.8 | 116.35 | 477.6 | -334.3 | 642.0 | 629.2 | 12.75 | 50.363 | | | |
| 2,900.0 | 2,865.1 | 2,828.1 | 2,828.1 | 8.9 | 4.9 | 117.71 | 477.6 | -334.3 | 650.0 | 636.8 | 13.18 | 49.319 | | | |
| 3,000.0 | 2,963.6 | 2,926.6 | 2,926.6 | 9.3 | 5.1 | 119.05 | 477.6 | -334.3 | 658.4 | 644.8 | 13.61 | 48.392 | | | |
| 3,100.0 | 3,062.0 | 3,025.0 | 3,025.0 | 9.7 | 5.3 | 120.34 | 477.6 | -334.3 | 667.2 | 653.2 | 14.03 | 47.568 | | | |
| 3,200.0 | 3,160.5 | 3,123.5 | 3,123.5 | 10.0 | 5.5 | 121.61 | 477.6 | -334.3 | 676.3 | 661.8 | 14.44 | 46.837 | | | |
| 3,300.0 | 3,258.9 | 3,221.9 | 3,221.9 | 10.4 | 5.6 | 122.84 | 477.6 | -334.3 | 685.7 | 670.9 | 14.85 | 46.187 | | | |
| 3,400.0 | 3,357.4 | 3,320.4 | 3,320.4 | 10.7 | 5.8 | 124.04 | 477.6 | -334.3 | 695.5 | 680.2 | 15.25 | 45.609 | | | |
| 3,500.0 | 3,455.9 | 3,418.9 | 3,418.9 | 11.1 | 6.0 | 125.20 | 477.6 | -334.3 | 705.5 | 689.9 | 15.64 | 45.097 | | | |
| 3,600.0 | 3,554.3 | 3,517.3 | 3,517.3 | 11.4 | 6.1 | 126.33 | 477.6 | -334.3 | 715.8 | 699.8 | 16.03 | 44.643 | | | |
| 3,700.0 | 3,652.8 | 3,615.8 | 3,615.8 | 11.8 | 6.3 | 127.44 | 477.6 | -334.3 | 726.4 | 710.0 | 16.42 | 44.241 | | | |
| 3,800.0 | 3,751.2 | 3,714.2 | 3,714.2 | 12.1 | 6.5 | 128.50 | 477.6 | -334.3 | 737.3 | 720.5 | 16.80 | 43.886 | | | |
| 3,900.0 | 3,849.7 | 3,812.7 | 3,812.7 | 12.5 | 6.7 | 129.54 | 477.6 | -334.3 | 748.4 | 731.2 | 17.18 | 43.573 | | | |
| 4,000.0 | 3,948.2 | 3,911.2 | 3,911.2 | 12.8 | 6.8 | 130.55 | 477.6 | -334.3 | 759.8 | 742.2 | 17.55 | 43.298 | | | |
| 4,100.0 | 4,046.6 | 4,009.6 | 4,009.6 | 13.2 | 7.0 | 131.53 | 477.6 | -334.3 | 771.3 | 753.4 | 17.91 | 43.057 | | | |
| 4,200.0 | 4,145.1 | 4,108.1 | 4,108.1 | 13.5 | 7.2 | 132.48 | 477.6 | -334.3 | 783.1 | 764.9 | 18.28 | 42.847 | | | |
| 4,300.0 | 4,243.5 | 4,206.5 | 4,206.5 | 13.9 | 7.3 | 133.40 | 477.6 | -334.3 | 795.2 | 776.5 | 18.64 | 42.665 | | | |
| 4,400.0 | 4,342.0 | 4,305.0 | 4,305.0 | 14.3 | 7.5 | 134.30 | 477.6 | -334.3 | 807.4 | 788.4 | 18.99 | 42.507 | | | |
| 4,500.0 | 4,440.4 | 4,403.4 | 4,403.4 | 14.6 | 7.7 | 135.16 | 477.6 | -334.3 | 819.8 | 800.4 | 19.35 | 42.373 | | | |
| 4,600.0 | 4,538.9 | 4,501.9 | 4,501.9 | 15.0 | 7.9 | 136.01 | 477.6 | -334.3 | 832.4 | 812.7 | 19.70 | 42.258 | | | |
| 4,700.0 | 4,637.4 | 4,600.4 | 4,600.4 | 15.3 | 8.0 | 136.82 | 477.6 | -334.3 | 845.1 | 825.1 | 20.04 | 42.162 | | | |
| 4,800.0 | 4,735.8 | 4,698.8 | 4,698.8 | 15.7 | 8.2 | 137.62 | 477.6 | -334.3 | 858.1 | 837.7 | 20.39 | 42.083 | | | |
| 4,900.0 | 4,834.3 | 4,797.3 | 4,797.3 | 16.0 | 8.4 | 138.39 | 477.6 | -334.3 | 871.1 | 850.4 | 20.73 | 42.019 | | | |
| 5,000.0 | 4,932.7 | 4,895.7 | 4,895.7 | 16.4 | 8.5 | 139.13 | 477.6 | -334.3 | 884.4 | 863.3 | 21.07 | 41.969 | | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 1 (EXISTING) MACHII - MACHII-ROSS WELL - NO SURVEYS | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------|
| Survey Program: 8036-Geolink MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | |
| 5,100.0 | 5,031.2 | 4,994.2 | 4,994.2 | 16.7 | 8.7 | 139.86 | 477.6 | -334.3 | 897.8 | 876.4 | 21.41 | 41.931 | |
| 5,200.0 | 5,129.7 | 5,092.7 | 5,092.7 | 17.1 | 8.9 | 140.56 | 477.6 | -334.3 | 911.3 | 889.5 | 21.75 | 41.904 | |
| 5,300.0 | 5,228.1 | 5,191.1 | 5,191.1 | 17.4 | 9.1 | 141.25 | 477.6 | -334.3 | 924.9 | 902.9 | 22.08 | 41.887 | |
| 5,400.0 | 5,326.6 | 5,289.6 | 5,289.6 | 17.8 | 9.2 | 141.91 | 477.6 | -334.3 | 938.7 | 916.3 | 22.41 | 41.879 | |
| 5,500.0 | 5,425.0 | 5,388.0 | 5,388.0 | 18.2 | 9.4 | 142.56 | 477.6 | -334.3 | 952.6 | 929.9 | 22.75 | 41.880 | |
| 5,600.0 | 5,523.5 | 5,486.5 | 5,486.5 | 18.5 | 9.6 | 143.19 | 477.6 | -334.3 | 966.7 | 943.6 | 23.08 | 41.888 | |
| 5,700.0 | 5,622.0 | 5,585.0 | 5,585.0 | 18.9 | 9.7 | 143.79 | 477.6 | -334.3 | 980.8 | 957.4 | 23.41 | 41.903 | |
| 5,800.0 | 5,720.4 | 5,683.4 | 5,683.4 | 19.2 | 9.9 | 144.39 | 477.6 | -334.3 | 995.0 | 971.3 | 23.73 | 41.923 | |
| 5,900.0 | 5,818.9 | 5,781.9 | 5,781.9 | 19.6 | 10.1 | 144.96 | 477.6 | -334.3 | 1,009.4 | 985.3 | 24.06 | 41.949 | |
| 6,000.0 | 5,917.3 | 5,880.3 | 5,880.3 | 19.9 | 10.3 | 145.52 | 477.6 | -334.3 | 1,023.8 | 999.4 | 24.39 | 41.980 | |
| 6,100.0 | 6,015.8 | 5,978.8 | 5,978.8 | 20.3 | 10.4 | 146.06 | 477.6 | -334.3 | 1,038.3 | 1,013.6 | 24.71 | 42.015 | |
| 6,200.0 | 6,114.2 | 6,077.2 | 6,077.2 | 20.6 | 10.6 | 146.59 | 477.6 | -334.3 | 1,053.0 | 1,027.9 | 25.04 | 42.054 | |
| 6,300.0 | 6,212.7 | 6,175.7 | 6,175.7 | 21.0 | 10.8 | 147.11 | 477.6 | -334.3 | 1,067.7 | 1,042.3 | 25.36 | 42.097 | |
| 6,400.0 | 6,311.2 | 6,274.2 | 6,274.2 | 21.3 | 11.0 | 147.61 | 477.6 | -334.3 | 1,082.5 | 1,056.8 | 25.69 | 42.143 | |
| 6,500.0 | 6,409.6 | 6,372.6 | 6,372.6 | 21.7 | 11.1 | 148.09 | 477.6 | -334.3 | 1,097.3 | 1,071.3 | 26.01 | 42.191 | |
| 6,600.0 | 6,508.1 | 6,471.1 | 6,471.1 | 22.1 | 11.3 | 148.57 | 477.6 | -334.3 | 1,112.3 | 1,086.0 | 26.33 | 42.242 | |
| 6,700.0 | 6,606.5 | 6,569.5 | 6,569.5 | 22.4 | 11.5 | 149.03 | 477.6 | -334.3 | 1,127.3 | 1,100.7 | 26.65 | 42.295 | |
| 6,800.0 | 6,705.0 | 6,668.0 | 6,668.0 | 22.8 | 11.6 | 149.48 | 477.6 | -334.3 | 1,142.4 | 1,115.4 | 26.98 | 42.350 | |
| 6,900.0 | 6,803.5 | 6,766.5 | 6,766.5 | 23.1 | 11.8 | 149.92 | 477.6 | -334.3 | 1,157.6 | 1,130.3 | 27.30 | 42.406 | |
| 7,000.0 | 6,901.9 | 6,864.9 | 6,864.9 | 23.5 | 12.0 | 150.34 | 477.6 | -334.3 | 1,172.8 | 1,145.2 | 27.62 | 42.464 | |
| 7,100.0 | 7,000.5 | 6,963.5 | 6,963.5 | 23.8 | 12.2 | 150.71 | 477.6 | -334.3 | 1,188.3 | 1,155.6 | 28.02 | 42.524 | |
| 7,200.0 | 7,098.0 | 7,061.0 | 7,061.0 | 24.0 | 12.3 | 151.09 | 477.6 | -334.3 | 1,181.0 | 1,153.2 | 27.84 | 42.422 | |
| 7,300.0 | 7,191.3 | 7,154.3 | 7,154.3 | 24.1 | 12.5 | 151.46 | 477.6 | -334.3 | 1,165.3 | 1,138.1 | 27.12 | 42.964 | |
| 7,400.0 | 7,277.8 | 7,240.8 | 7,240.8 | 24.1 | 12.6 | 151.83 | 477.6 | -334.3 | 1,137.6 | 1,111.5 | 26.16 | 43.494 | |
| 7,500.0 | 7,354.6 | 7,317.6 | 7,317.6 | 24.1 | 12.8 | 152.21 | 477.6 | -334.3 | 1,100.0 | 1,074.7 | 25.36 | 43.375 | |
| 7,600.0 | 7,419.6 | 7,382.6 | 7,382.6 | 24.0 | 12.9 | 152.59 | 477.6 | -334.3 | 1,055.0 | 1,029.8 | 25.12 | 41.991 | |
| 7,700.0 | 7,470.7 | 7,433.7 | 7,433.7 | 24.0 | 13.0 | 152.97 | 477.6 | -334.3 | 1,005.4 | 979.9 | 25.50 | 39.422 | |
| 7,800.0 | 7,506.4 | 7,469.4 | 7,469.4 | 24.1 | 13.0 | 153.35 | 477.6 | -334.3 | 954.4 | 928.3 | 26.15 | 36.492 | |
| 7,900.0 | 7,525.7 | 7,488.7 | 7,488.7 | 24.2 | 13.1 | 153.73 | 477.6 | -334.3 | 905.6 | 878.8 | 26.73 | 33.873 | |
| 8,000.0 | 7,529.0 | 7,492.0 | 7,492.0 | 24.5 | 13.1 | 154.11 | 477.6 | -334.3 | 862.0 | 834.8 | 27.21 | 31.675 | |
| 8,100.0 | 7,529.0 | 7,492.0 | 7,492.0 | 24.8 | 13.1 | 154.49 | 477.6 | -334.3 | 827.6 | 799.8 | 27.82 | 29.745 | |
| 8,200.0 | 7,529.0 | 7,492.0 | 7,492.0 | 25.3 | 13.1 | 154.87 | 477.6 | -334.3 | 804.3 | 775.7 | 28.61 | 28.113 | |
| 8,300.0 | 7,529.0 | 7,492.0 | 7,492.0 | 25.9 | 13.1 | 155.25 | 477.6 | -334.3 | 793.0 | 763.5 | 29.55 | 26.840 | |
| 8,340.1 | 7,529.0 | 7,492.0 | 7,492.0 | 26.1 | 13.1 | 155.63 | 477.6 | -334.3 | 792.0 | 762.0 | 29.97 | 26.424 | |
| 8,400.0 | 7,529.0 | 7,492.0 | 7,492.0 | 26.5 | 13.1 | 156.01 | 477.6 | -334.3 | 794.3 | 763.7 | 30.61 | 25.949 | |
| 8,500.0 | 7,529.0 | 7,492.0 | 7,492.0 | 27.3 | 13.1 | 156.39 | 477.6 | -334.3 | 808.0 | 776.2 | 31.78 | 25.428 | |
| 8,600.0 | 7,529.0 | 7,492.0 | 7,492.0 | 28.2 | 13.1 | 156.77 | 477.6 | -334.3 | 833.6 | 800.5 | 33.03 | 25.237 SF | |
| 8,700.0 | 7,529.0 | 7,492.0 | 7,492.0 | 29.1 | 13.1 | 157.15 | 477.6 | -334.3 | 869.9 | 835.6 | 34.35 | 25.324 | |
| 8,800.0 | 7,529.0 | 7,492.0 | 7,492.0 | 30.1 | 13.1 | 157.53 | 477.6 | -334.3 | 915.8 | 880.1 | 35.73 | 25.628 | |
| 8,900.0 | 7,529.0 | 7,492.0 | 7,492.0 | 31.2 | 13.1 | 157.91 | 477.6 | -334.3 | 969.9 | 932.7 | 37.17 | 26.097 | |
| 9,000.0 | 7,529.0 | 7,492.0 | 7,492.0 | 32.4 | 13.1 | 158.29 | 477.6 | -334.3 | 1,030.9 | 992.2 | 38.64 | 26.681 | |
| 9,100.0 | 7,529.0 | 7,492.0 | 7,492.0 | 33.6 | 13.1 | 158.67 | 477.6 | -334.3 | 1,097.6 | 1,057.4 | 40.14 | 27.342 | |
| 9,200.0 | 7,529.0 | 7,492.0 | 7,492.0 | 34.8 | 13.1 | 159.05 | 477.6 | -334.3 | 1,169.0 | 1,127.4 | 41.67 | 28.051 | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 11-9 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|---------------------------|---------|--------------------|--------|
| Survey Program: 8053-Geolink MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 10,800.0 | 7,529.0 | 7,460.0 | 7,460.0 | 58.4 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 1,189.4 | 1,121.4 | 67.98 | 17.497 | | | |
| 10,900.0 | 7,529.0 | 7,460.0 | 7,460.0 | 60.0 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 1,089.9 | 1,020.2 | 69.68 | 15.642 | | | |
| 11,000.0 | 7,529.0 | 7,460.0 | 7,460.0 | 61.6 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 990.6 | 919.2 | 71.38 | 13.877 | | | |
| 11,100.0 | 7,529.0 | 7,460.0 | 7,460.0 | 63.2 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 891.4 | 818.3 | 73.09 | 12.196 | | | |
| 11,200.0 | 7,529.0 | 7,460.0 | 7,460.0 | 64.9 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 792.4 | 717.6 | 74.80 | 10.594 | | | |
| 11,300.0 | 7,529.0 | 7,460.0 | 7,460.0 | 66.5 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 693.7 | 617.2 | 76.52 | 9.067 | | | |
| 11,400.0 | 7,529.0 | 7,460.0 | 7,460.0 | 68.1 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 595.5 | 517.2 | 78.23 | 7.612 | | | |
| 11,500.0 | 7,529.0 | 7,460.0 | 7,460.0 | 69.8 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 497.9 | 418.0 | 79.95 | 6.228 | | | |
| 11,600.0 | 7,529.0 | 7,460.0 | 7,460.0 | 71.4 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 401.6 | 319.9 | 81.67 | 4.917 | | | |
| 11,700.0 | 7,529.0 | 7,460.0 | 7,460.0 | 73.1 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 307.5 | 224.2 | 83.39 | 3.688 | | | |
| 11,800.0 | 7,529.0 | 7,460.0 | 7,460.0 | 74.8 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 218.9 | 133.8 | 85.11 | 2.572 | | | |
| 11,900.0 | 7,529.0 | 7,460.0 | 7,460.0 | 76.4 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 145.8 | 58.9 | 86.83 | 1.679 | | | |
| 11,983.3 | 7,529.0 | 7,460.0 | 7,460.0 | 77.8 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 119.6 | 31.3 | 88.27 | 1.355 Level 3, CC, ES, SF | | | |
| 12,000.0 | 7,529.0 | 7,460.0 | 7,460.0 | 78.1 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 120.7 | 32.2 | 88.56 | 1.363 Level 3 | | | |
| 12,100.0 | 7,529.0 | 7,460.0 | 7,460.0 | 79.8 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 167.1 | 76.8 | 90.28 | 1.850 | | | |
| 12,200.0 | 7,529.0 | 7,460.0 | 7,460.0 | 81.4 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 247.5 | 155.4 | 92.01 | 2.689 | | | |
| 12,300.0 | 7,529.0 | 7,460.0 | 7,460.0 | 83.1 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 338.5 | 244.7 | 93.74 | 3.611 | | | |
| 12,400.0 | 7,529.0 | 7,460.0 | 7,460.0 | 84.8 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 433.5 | 338.0 | 95.47 | 4.540 | | | |
| 12,500.0 | 7,529.0 | 7,460.0 | 7,460.0 | 86.5 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 530.3 | 433.1 | 97.20 | 5.456 | | | |
| 12,600.0 | 7,529.0 | 7,460.0 | 7,460.0 | 88.2 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 628.1 | 529.2 | 98.93 | 6.349 | | | |
| 12,700.0 | 7,529.0 | 7,460.0 | 7,460.0 | 89.9 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 726.6 | 625.9 | 100.66 | 7.218 | | | |
| 12,800.0 | 7,529.0 | 7,460.0 | 7,460.0 | 91.5 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 825.4 | 723.0 | 102.40 | 8.060 | | | |
| 12,900.0 | 7,529.0 | 7,460.0 | 7,460.0 | 93.2 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 924.4 | 820.3 | 104.13 | 8.877 | | | |
| 13,000.0 | 7,529.0 | 7,460.0 | 7,460.0 | 94.9 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 1,023.7 | 917.8 | 105.87 | 9.669 | | | |
| 13,097.3 | 7,529.0 | 7,460.0 | 7,460.0 | 96.6 | 13.0 | 90.00 | 4,120.8 | -1,006.8 | 1,120.4 | 1,012.8 | 107.56 | 10.417 | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 13-9 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------------------------|--|
| Survey Program: 8083-Geolink MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 8,200.0 | 7,529.0 | 7,490.0 | 7,490.0 | 25.3 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 1,154.9 | 1,126.3 | 28.61 | 40.371 | | |
| 8,300.0 | 7,529.0 | 7,490.0 | 7,490.0 | 25.9 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 1,055.3 | 1,025.8 | 29.54 | 35.720 | | |
| 8,400.0 | 7,529.0 | 7,490.0 | 7,490.0 | 26.5 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 955.8 | 925.2 | 30.61 | 31.229 | | |
| 8,500.0 | 7,529.0 | 7,490.0 | 7,490.0 | 27.3 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 856.4 | 824.6 | 31.77 | 26.953 | | |
| 8,600.0 | 7,529.0 | 7,490.0 | 7,490.0 | 28.2 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 757.1 | 724.1 | 33.03 | 22.926 | | |
| 8,700.0 | 7,529.0 | 7,490.0 | 7,490.0 | 29.1 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 658.1 | 623.8 | 34.35 | 19.159 | | |
| 8,800.0 | 7,529.0 | 7,490.0 | 7,490.0 | 30.1 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 559.4 | 523.7 | 35.73 | 15.656 | | |
| 8,900.0 | 7,529.0 | 7,490.0 | 7,490.0 | 31.2 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 461.3 | 424.2 | 37.16 | 12.414 | | |
| 9,000.0 | 7,529.0 | 7,490.0 | 7,490.0 | 32.4 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 364.3 | 325.6 | 38.63 | 9.429 | | |
| 9,100.0 | 7,529.0 | 7,490.0 | 7,490.0 | 33.6 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 269.3 | 229.2 | 40.14 | 6.710 | | |
| 9,200.0 | 7,529.0 | 7,490.0 | 7,490.0 | 34.8 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 180.0 | 138.4 | 41.67 | 4.320 | | |
| 9,300.0 | 7,529.0 | 7,490.0 | 7,490.0 | 36.1 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 110.8 | 67.6 | 43.23 | 2.563 | | |
| 9,350.7 | 7,529.0 | 7,490.0 | 7,490.0 | 36.8 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 98.5 | 54.5 | 44.03 | 2.237 | CC, ES, SF | |
| 9,400.0 | 7,529.0 | 7,490.0 | 7,490.0 | 37.4 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 110.2 | 65.4 | 44.81 | 2.459 | | |
| 9,500.0 | 7,529.0 | 7,490.0 | 7,490.0 | 38.8 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 178.9 | 132.5 | 46.40 | 3.855 | | |
| 9,600.0 | 7,529.0 | 7,490.0 | 7,490.0 | 40.2 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 268.1 | 220.1 | 48.01 | 5.583 | | |
| 9,700.0 | 7,529.0 | 7,490.0 | 7,490.0 | 41.6 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 362.9 | 313.3 | 49.64 | 7.312 | | |
| 9,800.0 | 7,529.0 | 7,490.0 | 7,490.0 | 43.0 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 460.0 | 408.7 | 51.27 | 8.971 | | |
| 9,900.0 | 7,529.0 | 7,490.0 | 7,490.0 | 44.5 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 558.1 | 505.2 | 52.92 | 10.546 | | |
| 10,000.0 | 7,529.0 | 7,490.0 | 7,490.0 | 46.0 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 656.7 | 602.2 | 54.57 | 12.034 | | |
| 10,100.0 | 7,529.0 | 7,490.0 | 7,490.0 | 47.5 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 755.8 | 699.5 | 56.23 | 13.440 | | |
| 10,200.0 | 7,529.0 | 7,490.0 | 7,490.0 | 49.0 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 855.0 | 797.1 | 57.90 | 14.766 | | |
| 10,300.0 | 7,529.0 | 7,490.0 | 7,490.0 | 50.5 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 954.4 | 894.8 | 59.58 | 16.019 | | |
| 10,400.0 | 7,529.0 | 7,490.0 | 7,490.0 | 52.1 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 1,053.9 | 992.7 | 61.26 | 17.204 | | |
| 10,500.0 | 7,529.0 | 7,490.0 | 7,490.0 | 53.7 | 13.1 | 90.00 | 1,488.1 | -1,027.8 | 1,153.5 | 1,090.6 | 62.95 | 18.326 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 14-9 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 8076-Geolink MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -81.72 | 149.4 | -1,025.9 | 1,037.6 | | | | | | |
| 100.0 | 100.0 | 59.0 | 59.0 | 0.1 | 0.1 | -81.72 | 149.4 | -1,025.9 | 1,036.8 | 1,036.5 | 0.23 | 4,600.748 | | | |
| 200.0 | 200.0 | 159.0 | 159.0 | 0.3 | 0.3 | -81.72 | 149.4 | -1,025.9 | 1,036.8 | 1,036.2 | 0.57 | 1,804.916 | | | |
| 300.0 | 300.0 | 259.0 | 259.0 | 0.5 | 0.5 | -81.72 | 149.4 | -1,025.9 | 1,036.8 | 1,035.8 | 0.92 | 1,122.676 | | | |
| 400.0 | 400.0 | 359.0 | 359.0 | 0.6 | 0.6 | 32.99 | 149.4 | -1,025.9 | 1,035.3 | 1,034.0 | 1.27 | 813.261 | | | |
| 500.0 | 499.8 | 458.8 | 458.8 | 0.8 | 0.8 | 33.20 | 149.4 | -1,025.9 | 1,030.9 | 1,029.3 | 1.63 | 634.064 | | | |
| 600.0 | 599.5 | 558.5 | 558.5 | 1.1 | 1.0 | 33.55 | 149.4 | -1,025.9 | 1,023.6 | 1,021.6 | 1.99 | 515.369 | | | |
| 700.0 | 698.7 | 657.7 | 657.7 | 1.3 | 1.1 | 34.04 | 149.4 | -1,025.9 | 1,013.5 | 1,011.1 | 2.36 | 429.654 | | | |
| 800.0 | 797.5 | 756.5 | 756.5 | 1.6 | 1.3 | 34.69 | 149.4 | -1,025.9 | 1,000.5 | 997.8 | 2.75 | 363.841 | | | |
| 900.0 | 895.9 | 854.9 | 854.9 | 2.0 | 1.5 | 35.27 | 149.4 | -1,025.9 | 986.1 | 983.0 | 3.15 | 312.557 | | | |
| 1,000.0 | 994.4 | 953.4 | 953.4 | 2.3 | 1.7 | 35.86 | 149.4 | -1,025.9 | 971.8 | 968.2 | 3.57 | 272.349 | | | |
| 1,100.0 | 1,092.8 | 1,051.8 | 1,051.8 | 2.6 | 1.8 | 36.47 | 149.4 | -1,025.9 | 957.6 | 953.6 | 3.99 | 240.108 | | | |
| 1,200.0 | 1,191.3 | 1,150.3 | 1,150.3 | 3.0 | 2.0 | 37.10 | 149.4 | -1,025.9 | 943.5 | 939.1 | 4.41 | 213.738 | | | |
| 1,300.0 | 1,289.8 | 1,248.8 | 1,248.8 | 3.3 | 2.2 | 37.74 | 149.4 | -1,025.9 | 929.6 | 924.7 | 4.85 | 191.807 | | | |
| 1,400.0 | 1,388.2 | 1,347.2 | 1,347.2 | 3.7 | 2.4 | 38.41 | 149.4 | -1,025.9 | 915.7 | 910.4 | 5.28 | 173.304 | | | |
| 1,500.0 | 1,486.7 | 1,445.7 | 1,445.7 | 4.0 | 2.5 | 39.10 | 149.4 | -1,025.9 | 902.0 | 896.3 | 5.73 | 157.501 | | | |
| 1,600.0 | 1,585.1 | 1,544.1 | 1,544.1 | 4.4 | 2.7 | 39.80 | 149.4 | -1,025.9 | 888.4 | 882.2 | 6.18 | 143.859 | | | |
| 1,700.0 | 1,683.6 | 1,642.6 | 1,642.6 | 4.7 | 2.9 | 40.53 | 149.4 | -1,025.9 | 875.0 | 868.3 | 6.63 | 131.974 | | | |
| 1,800.0 | 1,782.1 | 1,741.1 | 1,741.1 | 5.1 | 3.0 | 41.28 | 149.4 | -1,025.9 | 861.6 | 854.6 | 7.09 | 121.536 | | | |
| 1,900.0 | 1,880.5 | 1,839.5 | 1,839.5 | 5.4 | 3.2 | 42.06 | 149.4 | -1,025.9 | 848.5 | 840.9 | 7.56 | 112.304 | | | |
| 2,000.0 | 1,979.0 | 1,938.0 | 1,938.0 | 5.8 | 3.4 | 42.85 | 149.4 | -1,025.9 | 835.5 | 827.5 | 8.03 | 104.086 | | | |
| 2,100.0 | 2,077.4 | 2,036.4 | 2,036.4 | 6.1 | 3.6 | 43.68 | 149.4 | -1,025.9 | 822.7 | 814.2 | 8.50 | 96.732 | | | |
| 2,200.0 | 2,175.9 | 2,134.9 | 2,134.9 | 6.5 | 3.7 | 44.52 | 149.4 | -1,025.9 | 810.0 | 801.0 | 8.99 | 90.117 | | | |
| 2,300.0 | 2,274.3 | 2,233.3 | 2,233.3 | 6.8 | 3.9 | 45.40 | 149.4 | -1,025.9 | 797.6 | 788.1 | 9.48 | 84.141 | | | |
| 2,400.0 | 2,372.8 | 2,331.8 | 2,331.8 | 7.2 | 4.1 | 46.30 | 149.4 | -1,025.9 | 785.3 | 775.3 | 9.98 | 78.721 | | | |
| 2,500.0 | 2,471.3 | 2,430.3 | 2,430.3 | 7.5 | 4.2 | 47.23 | 149.4 | -1,025.9 | 773.2 | 762.7 | 10.48 | 73.788 | | | |
| 2,600.0 | 2,569.7 | 2,528.7 | 2,528.7 | 7.9 | 4.4 | 48.19 | 149.4 | -1,025.9 | 761.3 | 750.3 | 10.99 | 69.284 | | | |
| 2,700.0 | 2,668.2 | 2,627.2 | 2,627.2 | 8.2 | 4.6 | 49.17 | 149.4 | -1,025.9 | 749.7 | 738.2 | 11.51 | 65.161 | | | |
| 2,800.0 | 2,766.6 | 2,725.6 | 2,725.6 | 8.6 | 4.8 | 50.19 | 149.4 | -1,025.9 | 738.3 | 726.2 | 12.03 | 61.376 | | | |
| 2,900.0 | 2,865.1 | 2,824.1 | 2,824.1 | 8.9 | 4.9 | 51.24 | 149.4 | -1,025.9 | 727.1 | 714.5 | 12.56 | 57.895 | | | |
| 3,000.0 | 2,963.6 | 2,922.6 | 2,922.6 | 9.3 | 5.1 | 52.32 | 149.4 | -1,025.9 | 716.2 | 703.1 | 13.10 | 54.687 | | | |
| 3,100.0 | 3,062.0 | 3,021.0 | 3,021.0 | 9.7 | 5.3 | 53.43 | 149.4 | -1,025.9 | 705.5 | 691.9 | 13.64 | 51.725 | | | |
| 3,200.0 | 3,160.5 | 3,119.5 | 3,119.5 | 10.0 | 5.4 | 54.58 | 149.4 | -1,025.9 | 695.1 | 680.9 | 14.19 | 48.987 | | | |
| 3,300.0 | 3,258.9 | 3,217.9 | 3,217.9 | 10.4 | 5.6 | 55.76 | 149.4 | -1,025.9 | 685.0 | 670.3 | 14.75 | 46.452 | | | |
| 3,400.0 | 3,357.4 | 3,316.4 | 3,316.4 | 10.7 | 5.8 | 56.97 | 149.4 | -1,025.9 | 675.2 | 659.9 | 15.31 | 44.103 | | | |
| 3,500.0 | 3,455.9 | 3,414.9 | 3,414.9 | 11.1 | 6.0 | 58.22 | 149.4 | -1,025.9 | 665.8 | 649.9 | 15.88 | 41.924 | | | |
| 3,600.0 | 3,554.3 | 3,513.3 | 3,513.3 | 11.4 | 6.1 | 59.50 | 149.4 | -1,025.9 | 656.6 | 640.2 | 16.46 | 39.903 | | | |
| 3,700.0 | 3,652.8 | 3,611.8 | 3,611.8 | 11.8 | 6.3 | 60.82 | 149.4 | -1,025.9 | 647.8 | 630.8 | 17.04 | 38.025 | | | |
| 3,800.0 | 3,751.2 | 3,710.2 | 3,710.2 | 12.1 | 6.5 | 62.17 | 149.4 | -1,025.9 | 639.4 | 621.7 | 17.62 | 36.282 | | | |
| 3,900.0 | 3,849.7 | 3,808.7 | 3,808.7 | 12.5 | 6.6 | 63.56 | 149.4 | -1,025.9 | 631.3 | 613.1 | 18.21 | 34.663 | | | |
| 4,000.0 | 3,948.2 | 3,907.2 | 3,907.2 | 12.8 | 6.8 | 64.98 | 149.4 | -1,025.9 | 623.6 | 604.8 | 18.81 | 33.159 | | | |
| 4,100.0 | 4,046.6 | 4,005.6 | 4,005.6 | 13.2 | 7.0 | 66.43 | 149.4 | -1,025.9 | 616.3 | 596.9 | 19.40 | 31.763 | | | |
| 4,200.0 | 4,145.1 | 4,104.1 | 4,104.1 | 13.5 | 7.2 | 67.92 | 149.4 | -1,025.9 | 609.4 | 589.4 | 20.00 | 30.467 | | | |
| 4,300.0 | 4,243.5 | 4,202.5 | 4,202.5 | 13.9 | 7.3 | 69.44 | 149.4 | -1,025.9 | 603.0 | 582.4 | 20.60 | 29.265 | | | |
| 4,400.0 | 4,342.0 | 4,301.0 | 4,301.0 | 14.3 | 7.5 | 70.99 | 149.4 | -1,025.9 | 597.0 | 575.8 | 21.21 | 28.152 | | | |
| 4,500.0 | 4,440.4 | 4,399.4 | 4,399.4 | 14.6 | 7.7 | 72.57 | 149.4 | -1,025.9 | 591.4 | 569.6 | 21.81 | 27.121 | | | |
| 4,600.0 | 4,538.9 | 4,497.9 | 4,497.9 | 15.0 | 7.9 | 74.18 | 149.4 | -1,025.9 | 586.4 | 564.0 | 22.41 | 26.169 | | | |
| 4,700.0 | 4,637.4 | 4,596.4 | 4,596.4 | 15.3 | 8.0 | 75.81 | 149.4 | -1,025.9 | 581.8 | 558.8 | 23.00 | 25.290 | | | |
| 4,800.0 | 4,735.8 | 4,694.8 | 4,694.8 | 15.7 | 8.2 | 77.47 | 149.4 | -1,025.9 | 577.7 | 554.1 | 23.60 | 24.480 | | | |
| 4,900.0 | 4,834.3 | 4,793.3 | 4,793.3 | 16.0 | 8.4 | 79.15 | 149.4 | -1,025.9 | 574.1 | 549.9 | 24.19 | 23.735 | | | |
| 5,000.0 | 4,932.7 | 4,891.7 | 4,891.7 | 16.4 | 8.5 | 80.85 | 149.4 | -1,025.9 | 571.0 | 546.2 | 24.77 | 23.052 | | | |
| 5,100.0 | 5,031.2 | 4,990.2 | 4,990.2 | 16.7 | 8.7 | 82.56 | 149.4 | -1,025.9 | 568.4 | 543.1 | 25.35 | 22.427 | | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 14-9 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|------------------|--------------------|--------|
| Survey Program: 8076-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 | | | |
| 5,200.0 | 5,129.7 | 5,088.7 | 5,088.7 | 17.1 | 8.9 | 84.29 | 149.4 | -1,025.9 | 566.4 | 540.5 | 25.91 | 21.858 | | |
| 5,300.0 | 5,228.1 | 5,187.1 | 5,187.1 | 17.4 | 9.1 | 86.03 | 149.4 | -1,025.9 | 564.9 | 538.4 | 26.47 | 21.341 | | |
| 5,400.0 | 5,326.6 | 5,285.6 | 5,285.6 | 17.8 | 9.2 | 87.77 | 149.4 | -1,025.9 | 563.9 | 536.9 | 27.02 | 20.873 | | |
| 5,500.0 | 5,425.0 | 5,384.0 | 5,384.0 | 18.2 | 9.4 | 89.52 | 149.4 | -1,025.9 | 563.5 | 536.0 | 27.55 | 20.452 | | |
| 5,527.4 | 5,452.0 | 5,411.0 | 5,411.0 | 18.3 | 9.4 | 90.00 | 149.4 | -1,025.9 | 563.5 | 535.8 | 27.70 | 20.344 | | |
| 5,600.0 | 5,523.5 | 5,482.5 | 5,482.5 | 18.5 | 9.6 | 91.27 | 149.4 | -1,025.9 | 563.6 | 535.6 | 28.08 | 20.075 | | |
| 5,700.0 | 5,622.0 | 5,581.0 | 5,581.0 | 18.9 | 9.7 | 93.02 | 149.4 | -1,025.9 | 564.3 | 535.7 | 28.59 | 19.739 | | |
| 5,800.0 | 5,720.4 | 5,679.4 | 5,679.4 | 19.2 | 9.9 | 94.76 | 149.4 | -1,025.9 | 565.5 | 536.4 | 29.08 | 19.443 | | |
| 5,900.0 | 5,818.9 | 5,777.9 | 5,777.9 | 19.6 | 10.1 | 96.50 | 149.4 | -1,025.9 | 567.3 | 537.7 | 29.57 | 19.185 | | |
| 6,000.0 | 5,917.3 | 5,876.3 | 5,876.3 | 19.9 | 10.3 | 98.22 | 149.4 | -1,025.9 | 569.5 | 539.5 | 30.04 | 18.961 | | |
| 6,100.0 | 6,015.8 | 5,974.8 | 5,974.8 | 20.3 | 10.4 | 99.92 | 149.4 | -1,025.9 | 572.3 | 541.8 | 30.49 | 18.771 | | |
| 6,200.0 | 6,114.2 | 6,073.2 | 6,073.2 | 20.6 | 10.6 | 101.61 | 149.4 | -1,025.9 | 575.6 | 544.7 | 30.93 | 18.612 | | |
| 6,300.0 | 6,212.7 | 6,171.7 | 6,171.7 | 21.0 | 10.8 | 103.28 | 149.4 | -1,025.9 | 579.5 | 548.1 | 31.35 | 18.482 | | |
| 6,400.0 | 6,311.2 | 6,270.2 | 6,270.2 | 21.3 | 10.9 | 104.93 | 149.4 | -1,025.9 | 583.8 | 552.0 | 31.76 | 18.379 | | |
| 6,500.0 | 6,409.6 | 6,368.6 | 6,368.6 | 21.7 | 11.1 | 106.55 | 149.4 | -1,025.9 | 588.6 | 556.4 | 32.16 | 18.303 | | |
| 6,600.0 | 6,508.1 | 6,467.1 | 6,467.1 | 22.1 | 11.3 | 108.15 | 149.4 | -1,025.9 | 593.9 | 561.4 | 32.54 | 18.250 | | |
| 6,700.0 | 6,606.5 | 6,565.5 | 6,565.5 | 22.4 | 11.5 | 109.71 | 149.4 | -1,025.9 | 599.6 | 566.7 | 32.91 | 18.221 | | |
| 6,800.0 | 6,705.0 | 6,664.0 | 6,664.0 | 22.8 | 11.6 | 111.25 | 149.4 | -1,025.9 | 605.9 | 572.6 | 33.27 | 18.212 | | |
| 6,900.0 | 6,803.5 | 6,762.5 | 6,762.5 | 23.1 | 11.8 | 112.75 | 149.4 | -1,025.9 | 612.5 | 578.9 | 33.61 | 18.224 | | |
| 7,000.0 | 6,901.9 | 6,860.9 | 6,860.9 | 23.5 | 12.0 | 114.23 | 149.4 | -1,025.9 | 619.6 | 585.6 | 33.94 | 18.253 | | |
| 7,100.0 | 7,000.5 | 6,959.5 | 6,959.5 | 23.8 | 12.1 | 69.23 | 149.4 | -1,025.9 | 621.5 | 587.4 | 34.09 | 18.234 | | |
| 7,200.0 | 7,098.0 | 7,057.0 | 7,057.0 | 24.0 | 12.3 | 37.11 | 149.4 | -1,025.9 | 606.9 | 573.5 | 33.43 | 18.154 | | |
| 7,300.0 | 7,191.3 | 7,150.3 | 7,150.3 | 24.1 | 12.5 | 26.73 | 149.4 | -1,025.9 | 575.8 | 543.9 | 31.96 | 18.015 | | |
| 7,400.0 | 7,277.8 | 7,236.8 | 7,236.8 | 24.1 | 12.6 | 23.80 | 149.4 | -1,025.9 | 529.3 | 499.5 | 29.78 | 17.775 | | |
| 7,500.0 | 7,354.6 | 7,313.6 | 7,313.6 | 24.1 | 12.8 | 24.90 | 149.4 | -1,025.9 | 469.0 | 441.9 | 27.08 | 17.316 | | |
| 7,600.0 | 7,419.6 | 7,378.6 | 7,378.6 | 24.0 | 12.9 | 30.11 | 149.4 | -1,025.9 | 397.0 | 372.6 | 24.38 | 16.287 | | |
| 7,700.0 | 7,470.7 | 7,429.7 | 7,429.7 | 24.0 | 13.0 | 41.65 | 149.4 | -1,025.9 | 316.3 | 293.3 | 22.92 | 13.796 | | |
| 7,800.0 | 7,506.4 | 7,465.4 | 7,465.4 | 24.1 | 13.0 | 61.99 | 149.4 | -1,025.9 | 231.0 | 206.6 | 24.47 | 9.442 | | |
| 7,900.0 | 7,525.7 | 7,484.7 | 7,484.7 | 24.2 | 13.1 | 83.39 | 149.4 | -1,025.9 | 149.9 | 123.4 | 26.58 | 5.641 | | |
| 8,000.0 | 7,529.0 | 7,488.0 | 7,488.0 | 24.5 | 13.1 | 90.00 | 149.4 | -1,025.9 | 101.1 | 73.9 | 27.21 | 3.717 | | |
| 8,011.9 | 7,529.0 | 7,488.0 | 7,488.0 | 24.5 | 13.1 | 90.00 | 149.4 | -1,025.9 | 100.4 | 73.1 | 27.28 | 3.681 CC, ES, SF | | |
| 8,100.0 | 7,529.0 | 7,488.0 | 7,488.0 | 24.8 | 13.1 | 90.00 | 149.4 | -1,025.9 | 133.5 | 105.7 | 27.82 | 4.801 | | |
| 8,200.0 | 7,529.0 | 7,488.0 | 7,488.0 | 25.3 | 13.1 | 90.00 | 149.4 | -1,025.9 | 213.2 | 184.6 | 28.60 | 7.453 | | |
| 8,300.0 | 7,529.0 | 7,488.0 | 7,488.0 | 25.9 | 13.1 | 90.00 | 149.4 | -1,025.9 | 305.0 | 275.5 | 29.54 | 10.327 | | |
| 8,400.0 | 7,529.0 | 7,488.0 | 7,488.0 | 26.5 | 13.1 | 90.00 | 149.4 | -1,025.9 | 400.8 | 370.2 | 30.60 | 13.098 | | |
| 8,500.0 | 7,529.0 | 7,488.0 | 7,488.0 | 27.3 | 13.1 | 90.00 | 149.4 | -1,025.9 | 498.3 | 466.5 | 31.77 | 15.684 | | |
| 8,600.0 | 7,529.0 | 7,488.0 | 7,488.0 | 28.2 | 13.1 | 90.00 | 149.4 | -1,025.9 | 596.6 | 563.5 | 33.02 | 18.066 | | |
| 8,700.0 | 7,529.0 | 7,488.0 | 7,488.0 | 29.1 | 13.1 | 90.00 | 149.4 | -1,025.9 | 695.3 | 661.0 | 34.35 | 20.245 | | |
| 8,800.0 | 7,529.0 | 7,488.0 | 7,488.0 | 30.1 | 13.1 | 90.00 | 149.4 | -1,025.9 | 794.4 | 758.7 | 35.73 | 22.235 | | |
| 8,900.0 | 7,529.0 | 7,488.0 | 7,488.0 | 31.2 | 13.1 | 90.00 | 149.4 | -1,025.9 | 893.7 | 856.5 | 37.16 | 24.051 | | |
| 9,000.0 | 7,529.0 | 7,488.0 | 7,488.0 | 32.4 | 13.1 | 90.00 | 149.4 | -1,025.9 | 993.1 | 954.5 | 38.63 | 25.709 | | |
| 9,100.0 | 7,529.0 | 7,488.0 | 7,488.0 | 33.6 | 13.1 | 90.00 | 149.4 | -1,025.9 | 1,092.7 | 1,052.5 | 40.13 | 27.225 | | |
| 9,200.0 | 7,529.0 | 7,488.0 | 7,488.0 | 34.8 | 13.1 | 90.00 | 149.4 | -1,025.9 | 1,192.3 | 1,150.6 | 41.67 | 28.614 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 1-9 (EXISTING) - MACHII-ROSS WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 8150-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 | | |
| 10,600.0 | 7,529.0 | 7,455.0 | 7,455.0 | 55.2 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,181.6 | 1,117.0 | 64.58 | 18.297 | | |
| 10,700.0 | 7,529.0 | 7,455.0 | 7,455.0 | 56.8 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,124.1 | 1,057.8 | 66.27 | 16.962 | | |
| 10,800.0 | 7,529.0 | 7,455.0 | 7,455.0 | 58.4 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,072.9 | 1,004.9 | 67.97 | 15.785 | | |
| 10,900.0 | 7,529.0 | 7,455.0 | 7,455.0 | 60.0 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,028.8 | 959.2 | 69.67 | 14.767 | | |
| 11,000.0 | 7,529.0 | 7,455.0 | 7,455.0 | 61.6 | 13.0 | 90.00 | 3,450.1 | -183.9 | 992.9 | 921.6 | 71.38 | 13.912 | | |
| 11,100.0 | 7,529.0 | 7,455.0 | 7,455.0 | 63.2 | 13.0 | 90.00 | 3,450.1 | -183.9 | 966.1 | 893.0 | 73.08 | 13.220 | | |
| 11,200.0 | 7,529.0 | 7,455.0 | 7,455.0 | 64.9 | 13.0 | 90.00 | 3,450.1 | -183.9 | 949.1 | 874.4 | 74.79 | 12.690 | | |
| 11,300.0 | 7,529.0 | 7,455.0 | 7,455.0 | 66.5 | 13.0 | 90.00 | 3,450.1 | -183.9 | 942.5 | 866.0 | 76.51 | 12.319 | | |
| 11,312.7 | 7,529.0 | 7,455.0 | 7,455.0 | 66.7 | 13.0 | 90.00 | 3,450.1 | -183.9 | 942.4 | 865.7 | 76.72 | 12.283 CC, ES | | |
| 11,400.0 | 7,529.0 | 7,455.0 | 7,455.0 | 68.1 | 13.0 | 90.00 | 3,450.1 | -183.9 | 946.5 | 868.2 | 78.22 | 12.100 | | |
| 11,500.0 | 7,529.0 | 7,455.0 | 7,455.0 | 69.8 | 13.0 | 90.00 | 3,450.1 | -183.9 | 960.9 | 880.9 | 79.94 | 12.020 SF | | |
| 11,600.0 | 7,529.0 | 7,455.0 | 7,455.0 | 71.4 | 13.0 | 90.00 | 3,450.1 | -183.9 | 985.3 | 903.6 | 81.66 | 12.066 | | |
| 11,700.0 | 7,529.0 | 7,455.0 | 7,455.0 | 73.1 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,018.9 | 935.5 | 83.38 | 12.220 | | |
| 11,800.0 | 7,529.0 | 7,455.0 | 7,455.0 | 74.8 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,061.0 | 975.9 | 85.10 | 12.467 | | |
| 11,900.0 | 7,529.0 | 7,455.0 | 7,455.0 | 76.4 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,110.5 | 1,023.6 | 86.82 | 12.790 | | |
| 12,000.0 | 7,529.0 | 7,455.0 | 7,455.0 | 78.1 | 13.0 | 90.00 | 3,450.1 | -183.9 | 1,166.4 | 1,077.9 | 88.55 | 13.173 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 2 (EXISTING) - MACHII-ROSS WELL - NO SURVEYS | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|--------------------|---------|
| Survey Program: 8100-Geolink MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning |
| 10,300.0 | 7,529.0 | 7,492.0 | 7,492.0 | 50.5 | 13.1 | 90.00 | 3,401.3 | -403.6 | 1,204.7 | 1,145.2 | 59.58 | 20.220 | |
| 10,400.0 | 7,529.0 | 7,492.0 | 7,492.0 | 52.1 | 13.1 | 90.00 | 3,401.3 | -403.6 | 1,126.3 | 1,065.1 | 61.26 | 18.385 | |
| 10,500.0 | 7,529.0 | 7,492.0 | 7,492.0 | 53.7 | 13.1 | 90.00 | 3,401.3 | -403.6 | 1,051.6 | 988.6 | 62.95 | 16.705 | |
| 10,600.0 | 7,529.0 | 7,492.0 | 7,492.0 | 55.2 | 13.1 | 90.00 | 3,401.3 | -403.6 | 981.4 | 916.7 | 64.64 | 15.182 | |
| 10,700.0 | 7,529.0 | 7,492.0 | 7,492.0 | 56.8 | 13.1 | 90.00 | 3,401.3 | -403.6 | 916.7 | 850.3 | 66.33 | 13.819 | |
| 10,800.0 | 7,529.0 | 7,492.0 | 7,492.0 | 58.4 | 13.1 | 90.00 | 3,401.3 | -403.6 | 858.8 | 790.8 | 68.03 | 12.623 | |
| 10,900.0 | 7,529.0 | 7,492.0 | 7,492.0 | 60.0 | 13.1 | 90.00 | 3,401.3 | -403.6 | 809.2 | 739.4 | 69.74 | 11.603 | |
| 11,000.0 | 7,529.0 | 7,492.0 | 7,492.0 | 61.6 | 13.1 | 90.00 | 3,401.3 | -403.6 | 769.4 | 698.0 | 71.44 | 10.770 | |
| 11,100.0 | 7,529.0 | 7,492.0 | 7,492.0 | 63.2 | 13.1 | 90.00 | 3,401.3 | -403.6 | 741.1 | 667.9 | 73.15 | 10.131 | |
| 11,200.0 | 7,529.0 | 7,492.0 | 7,492.0 | 64.9 | 13.1 | 90.00 | 3,401.3 | -403.6 | 725.6 | 650.7 | 74.86 | 9.692 | |
| 11,263.9 | 7,529.0 | 7,492.0 | 7,492.0 | 65.9 | 13.1 | 90.00 | 3,401.3 | -403.6 | 722.7 | 646.8 | 75.95 | 9.516 CC, ES | |
| 11,300.0 | 7,529.0 | 7,492.0 | 7,492.0 | 66.5 | 13.1 | 90.00 | 3,401.3 | -403.6 | 723.6 | 647.1 | 76.57 | 9.451 | |
| 11,400.0 | 7,529.0 | 7,492.0 | 7,492.0 | 68.1 | 13.1 | 90.00 | 3,401.3 | -403.6 | 735.4 | 657.2 | 78.29 | 9.394 SF | |
| 11,500.0 | 7,529.0 | 7,492.0 | 7,492.0 | 69.8 | 13.1 | 90.00 | 3,401.3 | -403.6 | 760.3 | 680.3 | 80.00 | 9.504 | |
| 11,600.0 | 7,529.0 | 7,492.0 | 7,492.0 | 71.4 | 13.1 | 90.00 | 3,401.3 | -403.6 | 797.1 | 715.4 | 81.72 | 9.754 | |
| 11,700.0 | 7,529.0 | 7,492.0 | 7,492.0 | 73.1 | 13.1 | 90.00 | 3,401.3 | -403.6 | 844.1 | 760.7 | 83.44 | 10.116 | |
| 11,800.0 | 7,529.0 | 7,492.0 | 7,492.0 | 74.8 | 13.1 | 90.00 | 3,401.3 | -403.6 | 899.9 | 814.7 | 85.16 | 10.566 | |
| 11,900.0 | 7,529.0 | 7,492.0 | 7,492.0 | 76.4 | 13.1 | 90.00 | 3,401.3 | -403.6 | 962.8 | 875.9 | 86.89 | 11.081 | |
| 12,000.0 | 7,529.0 | 7,492.0 | 7,492.0 | 78.1 | 13.1 | 90.00 | 3,401.3 | -403.6 | 1,031.6 | 943.0 | 88.61 | 11.642 | |
| 12,100.0 | 7,529.0 | 7,492.0 | 7,492.0 | 79.8 | 13.1 | 90.00 | 3,401.3 | -403.6 | 1,105.2 | 1,014.9 | 90.34 | 12.234 | |
| 12,200.0 | 7,529.0 | 7,492.0 | 7,492.0 | 81.4 | 13.1 | 90.00 | 3,401.3 | -403.6 | 1,182.7 | 1,090.6 | 92.07 | 12.846 | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 24-9 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|----------------|--------------------|--------|
| Survey Program: 8116-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 | 98.85 | -41.2 | 264.5 | 269.4 | | | | | |
| 100.0 | 100.0 | 69.0 | 69.0 | 0.1 | 0.1 | 98.85 | -41.2 | 264.5 | 267.6 | 267.4 | 0.24 | 1,102.304 | | |
| 200.0 | 200.0 | 169.0 | 169.0 | 0.3 | 0.3 | 98.85 | -41.2 | 264.5 | 267.6 | 267.0 | 0.59 | 452.197 | | |
| 300.0 | 300.0 | 269.0 | 269.0 | 0.5 | 0.5 | 98.85 | -41.2 | 264.5 | 267.6 | 266.7 | 0.94 | 284.442 CC, ES | | |
| 400.0 | 400.0 | 369.0 | 369.0 | 0.6 | 0.6 | -146.70 | -41.2 | 264.5 | 269.1 | 267.8 | 1.29 | 208.523 | | |
| 500.0 | 499.8 | 468.8 | 468.8 | 0.8 | 0.8 | -147.26 | -41.2 | 264.5 | 273.5 | 271.8 | 1.64 | 166.440 | | |
| 600.0 | 599.5 | 568.5 | 568.5 | 1.1 | 1.0 | -148.14 | -41.2 | 264.5 | 280.9 | 278.9 | 2.00 | 140.313 | | |
| 700.0 | 698.7 | 667.7 | 667.7 | 1.3 | 1.2 | -149.30 | -41.2 | 264.5 | 291.3 | 288.9 | 2.37 | 123.040 | | |
| 800.0 | 797.5 | 766.5 | 766.5 | 1.6 | 1.3 | -150.66 | -41.2 | 264.5 | 304.9 | 302.1 | 2.74 | 111.242 | | |
| 900.0 | 895.9 | 864.9 | 864.9 | 2.0 | 1.5 | -152.18 | -41.2 | 264.5 | 320.3 | 317.2 | 3.12 | 102.758 | | |
| 1,000.0 | 994.4 | 963.4 | 963.4 | 2.3 | 1.7 | -153.57 | -41.2 | 264.5 | 335.9 | 332.4 | 3.49 | 96.225 | | |
| 1,100.0 | 1,092.8 | 1,061.8 | 1,061.8 | 2.6 | 1.9 | -154.83 | -41.2 | 264.5 | 351.7 | 347.8 | 3.86 | 91.079 | | |
| 1,200.0 | 1,191.3 | 1,160.3 | 1,160.3 | 3.0 | 2.0 | -155.99 | -41.2 | 264.5 | 367.6 | 363.4 | 4.23 | 86.938 | | |
| 1,300.0 | 1,289.8 | 1,258.8 | 1,258.8 | 3.3 | 2.2 | -157.05 | -41.2 | 264.5 | 383.7 | 379.1 | 4.59 | 83.545 | | |
| 1,400.0 | 1,388.2 | 1,357.2 | 1,357.2 | 3.7 | 2.4 | -158.03 | -41.2 | 264.5 | 399.9 | 395.0 | 4.95 | 80.719 | | |
| 1,500.0 | 1,486.7 | 1,455.7 | 1,455.7 | 4.0 | 2.5 | -158.92 | -41.2 | 264.5 | 416.2 | 410.9 | 5.31 | 78.334 | | |
| 1,600.0 | 1,585.1 | 1,554.1 | 1,554.1 | 4.4 | 2.7 | -159.76 | -41.2 | 264.5 | 432.6 | 427.0 | 5.67 | 76.297 | | |
| 1,700.0 | 1,683.6 | 1,652.6 | 1,652.6 | 4.7 | 2.9 | -160.53 | -41.2 | 264.5 | 449.1 | 443.1 | 6.03 | 74.538 | | |
| 1,800.0 | 1,782.1 | 1,751.1 | 1,751.1 | 5.1 | 3.1 | -161.24 | -41.2 | 264.5 | 465.7 | 459.3 | 6.38 | 73.006 | | |
| 1,900.0 | 1,880.5 | 1,849.5 | 1,849.5 | 5.4 | 3.2 | -161.91 | -41.2 | 264.5 | 482.3 | 475.5 | 6.73 | 71.660 | | |
| 2,000.0 | 1,979.0 | 1,948.0 | 1,948.0 | 5.8 | 3.4 | -162.53 | -41.2 | 264.5 | 498.9 | 491.9 | 7.08 | 70.468 | | |
| 2,100.0 | 2,077.4 | 2,046.4 | 2,046.4 | 6.1 | 3.6 | -163.12 | -41.2 | 264.5 | 515.7 | 508.2 | 7.43 | 69.406 | | |
| 2,200.0 | 2,175.9 | 2,144.9 | 2,144.9 | 6.5 | 3.7 | -163.66 | -41.2 | 264.5 | 532.5 | 524.7 | 7.78 | 68.454 | | |
| 2,300.0 | 2,274.3 | 2,243.3 | 2,243.3 | 6.8 | 3.9 | -164.17 | -41.2 | 264.5 | 549.3 | 541.2 | 8.13 | 67.596 | | |
| 2,400.0 | 2,372.8 | 2,341.8 | 2,341.8 | 7.2 | 4.1 | -164.66 | -41.2 | 264.5 | 566.1 | 557.7 | 8.47 | 66.819 | | |
| 2,500.0 | 2,471.3 | 2,440.3 | 2,440.3 | 7.5 | 4.3 | -165.11 | -41.2 | 264.5 | 583.0 | 574.2 | 8.82 | 66.111 | | |
| 2,600.0 | 2,569.7 | 2,538.7 | 2,538.7 | 7.9 | 4.4 | -165.54 | -41.2 | 264.5 | 600.0 | 590.8 | 9.17 | 65.464 | | |
| 2,700.0 | 2,668.2 | 2,637.2 | 2,637.2 | 8.2 | 4.6 | -165.94 | -41.2 | 264.5 | 616.9 | 607.4 | 9.51 | 64.871 | | |
| 2,800.0 | 2,766.6 | 2,735.6 | 2,735.6 | 8.6 | 4.8 | -166.33 | -41.2 | 264.5 | 633.9 | 624.1 | 9.86 | 64.324 | | |
| 2,900.0 | 2,865.1 | 2,834.1 | 2,834.1 | 8.9 | 4.9 | -166.69 | -41.2 | 264.5 | 651.0 | 640.8 | 10.20 | 63.819 | | |
| 3,000.0 | 2,963.6 | 2,932.6 | 2,932.6 | 9.3 | 5.1 | -167.04 | -41.2 | 264.5 | 668.0 | 657.5 | 10.54 | 63.352 | | |
| 3,100.0 | 3,062.0 | 3,031.0 | 3,031.0 | 9.7 | 5.3 | -167.36 | -41.2 | 264.5 | 685.1 | 674.2 | 10.89 | 62.917 | | |
| 3,200.0 | 3,160.5 | 3,129.5 | 3,129.5 | 10.0 | 5.5 | -167.68 | -41.2 | 264.5 | 702.2 | 690.9 | 11.23 | 62.512 | | |
| 3,300.0 | 3,258.9 | 3,227.9 | 3,227.9 | 10.4 | 5.6 | -167.97 | -41.2 | 264.5 | 719.3 | 707.7 | 11.58 | 62.133 | | |
| 3,400.0 | 3,357.4 | 3,326.4 | 3,326.4 | 10.7 | 5.8 | -168.26 | -41.2 | 264.5 | 736.4 | 724.5 | 11.92 | 61.779 | | |
| 3,500.0 | 3,455.9 | 3,424.9 | 3,424.9 | 11.1 | 6.0 | -168.53 | -41.2 | 264.5 | 753.5 | 741.3 | 12.26 | 61.447 | | |
| 3,600.0 | 3,554.3 | 3,523.3 | 3,523.3 | 11.4 | 6.1 | -168.79 | -41.2 | 264.5 | 770.7 | 758.1 | 12.61 | 61.134 | | |
| 3,700.0 | 3,652.8 | 3,621.8 | 3,621.8 | 11.8 | 6.3 | -169.03 | -41.2 | 264.5 | 787.9 | 774.9 | 12.95 | 60.840 | | |
| 3,800.0 | 3,751.2 | 3,720.2 | 3,720.2 | 12.1 | 6.5 | -169.27 | -41.2 | 264.5 | 805.0 | 791.8 | 13.29 | 60.562 | | |
| 3,900.0 | 3,849.7 | 3,818.7 | 3,818.7 | 12.5 | 6.7 | -169.50 | -41.2 | 264.5 | 822.2 | 808.6 | 13.64 | 60.299 | | |
| 4,000.0 | 3,948.2 | 3,917.2 | 3,917.2 | 12.8 | 6.8 | -169.71 | -41.2 | 264.5 | 839.5 | 825.5 | 13.98 | 60.050 | | |
| 4,100.0 | 4,046.6 | 4,015.6 | 4,015.6 | 13.2 | 7.0 | -169.92 | -41.2 | 264.5 | 856.7 | 842.4 | 14.32 | 59.814 | | |
| 4,200.0 | 4,145.1 | 4,114.1 | 4,114.1 | 13.5 | 7.2 | -170.12 | -41.2 | 264.5 | 873.9 | 859.2 | 14.67 | 59.590 | | |
| 4,300.0 | 4,243.5 | 4,212.5 | 4,212.5 | 13.9 | 7.4 | -170.32 | -41.2 | 264.5 | 891.1 | 876.1 | 15.01 | 59.377 | | |
| 4,400.0 | 4,342.0 | 4,311.0 | 4,311.0 | 14.3 | 7.5 | -170.50 | -41.2 | 264.5 | 908.4 | 893.0 | 15.35 | 59.175 | | |
| 4,500.0 | 4,440.4 | 4,409.4 | 4,409.4 | 14.6 | 7.7 | -170.68 | -41.2 | 264.5 | 925.7 | 910.0 | 15.69 | 58.981 | | |
| 4,600.0 | 4,538.9 | 4,507.9 | 4,507.9 | 15.0 | 7.9 | -170.85 | -41.2 | 264.5 | 942.9 | 926.9 | 16.04 | 58.797 | | |
| 4,700.0 | 4,637.4 | 4,606.4 | 4,606.4 | 15.3 | 8.0 | -171.02 | -41.2 | 264.5 | 960.2 | 943.8 | 16.38 | 58.620 | | |
| 4,800.0 | 4,735.8 | 4,704.8 | 4,704.8 | 15.7 | 8.2 | -171.18 | -41.2 | 264.5 | 977.5 | 960.8 | 16.72 | 58.452 | | |
| 4,900.0 | 4,834.3 | 4,803.3 | 4,803.3 | 16.0 | 8.4 | -171.33 | -41.2 | 264.5 | 994.8 | 977.7 | 17.07 | 58.290 | | |
| 5,000.0 | 4,932.7 | 4,901.7 | 4,901.7 | 16.4 | 8.6 | -171.48 | -41.2 | 264.5 | 1,012.1 | 994.7 | 17.41 | 58.135 | | |
| 5,100.0 | 5,031.2 | 5,000.2 | 5,000.2 | 16.7 | 8.7 | -171.63 | -41.2 | 264.5 | 1,029.4 | 1,011.6 | 17.75 | 57.987 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 24-9 (EXISTING) - ENCANA WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|------------------------|------------------------|------------------------|-------------------|----------------|--------------------------|---|---------------|-------------------------|--------------------------|---------------------------|-------------------|--------------------|---------|
| Survey Program: 8116-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 | 5,129.7 | 5,098.7 | 5,098.7 | 17.1 | 8.9 | -171.76 | -41.2 | 264.5 | 1,046.7 | 1,028.6 | 18.09 | 57.844 | | |
| 5,300.0 | 5,228.1 | 5,197.1 | 5,197.1 | 17.4 | 9.1 | -171.90 | -41.2 | 264.5 | 1,064.0 | 1,045.6 | 18.44 | 57.707 | | |
| 5,400.0 | 5,326.6 | 5,295.6 | 5,295.6 | 17.8 | 9.2 | -172.03 | -41.2 | 264.5 | 1,081.3 | 1,062.5 | 18.78 | 57.575 | | |
| 5,500.0 | 5,425.0 | 5,394.0 | 5,394.0 | 18.2 | 9.4 | -172.16 | -41.2 | 264.5 | 1,098.7 | 1,079.5 | 19.12 | 57.449 | | |
| 5,600.0 | 5,523.5 | 5,492.5 | 5,492.5 | 18.5 | 9.6 | -172.28 | -41.2 | 264.5 | 1,116.0 | 1,096.5 | 19.47 | 57.326 | | |
| 5,700.0 | 5,622.0 | 5,591.0 | 5,591.0 | 18.9 | 9.8 | -172.40 | -41.2 | 264.5 | 1,133.3 | 1,113.5 | 19.81 | 57.209 | | |
| 5,800.0 | 5,720.4 | 5,689.4 | 5,689.4 | 19.2 | 9.9 | -172.51 | -41.2 | 264.5 | 1,150.7 | 1,130.5 | 20.15 | 57.095 | | |
| 5,900.0 | 5,818.9 | 5,787.9 | 5,787.9 | 19.6 | 10.1 | -172.62 | -41.2 | 264.5 | 1,168.0 | 1,147.5 | 20.50 | 56.985 | | |
| 6,000.0 | 5,917.3 | 5,886.3 | 5,886.3 | 19.9 | 10.3 | -172.73 | -41.2 | 264.5 | 1,185.4 | 1,164.5 | 20.84 | 56.879 | | |
| 6,100.0 | 6,015.8 | 5,984.8 | 5,984.8 | 20.3 | 10.4 | -172.84 | -41.2 | 264.5 | 1,202.7 | 1,181.5 | 21.18 | 56.777 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|---------------|--------------------|--------|
| Survey Program: 0-MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Highside Toolface (°) | Distance | | Total Uncertainty Axis | Separation Factor | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | | | | | | |
| 9,000.0 | 7,529.0 | 7,570.4 | 7,507.0 | 32.4 | 19.5 | 90.00 | 2,060.6 | -457.6 | 1,139.9 | 1,097.7 | 42.26 | 26.972 | | |
| 9,100.0 | 7,529.0 | 7,570.4 | 7,507.0 | 33.6 | 19.5 | 90.00 | 2,060.6 | -457.6 | 1,060.6 | 1,016.8 | 43.77 | 24.231 | | |
| 9,200.0 | 7,529.0 | 7,570.4 | 7,507.0 | 34.8 | 19.5 | 90.00 | 2,060.6 | -457.6 | 985.0 | 939.7 | 45.30 | 21.743 | | |
| 9,300.0 | 7,529.0 | 7,570.4 | 7,507.0 | 36.1 | 19.5 | 90.00 | 2,060.6 | -457.6 | 914.1 | 867.2 | 46.86 | 19.507 | | |
| 9,400.0 | 7,529.0 | 7,570.4 | 7,507.0 | 37.4 | 19.5 | 90.00 | 2,060.6 | -457.6 | 849.1 | 800.6 | 48.44 | 17.529 | | |
| 9,500.0 | 7,529.0 | 7,570.4 | 7,507.0 | 38.8 | 19.5 | 90.00 | 2,060.6 | -457.6 | 791.4 | 741.4 | 50.03 | 15.818 | | |
| 9,600.0 | 7,529.0 | 7,570.4 | 7,507.0 | 40.2 | 19.5 | 90.00 | 2,060.6 | -457.6 | 742.8 | 691.1 | 51.64 | 14.382 | | |
| 9,700.0 | 7,529.0 | 7,570.4 | 7,507.0 | 41.6 | 19.5 | 90.00 | 2,060.6 | -457.6 | 705.0 | 651.8 | 53.27 | 13.236 | | |
| 9,800.0 | 7,529.0 | 7,570.4 | 7,507.0 | 43.0 | 19.5 | 90.00 | 2,060.6 | -457.6 | 680.0 | 625.1 | 54.90 | 12.386 | | |
| 9,900.0 | 7,529.0 | 7,570.4 | 7,507.0 | 44.5 | 19.5 | 90.00 | 2,060.6 | -457.6 | 669.2 | 612.6 | 56.55 | 11.834 | | |
| 9,923.1 | 7,529.0 | 7,570.4 | 7,507.0 | 44.8 | 19.5 | 90.00 | 2,060.6 | -457.6 | 668.8 | 611.9 | 56.93 | 11.747 CC, ES | | |
| 10,000.0 | 7,529.0 | 7,570.4 | 7,507.0 | 46.0 | 19.5 | 90.00 | 2,060.6 | -457.6 | 673.2 | 615.0 | 58.20 | 11.566 | | |
| 10,100.0 | 7,529.0 | 7,570.4 | 7,507.0 | 47.5 | 19.5 | 90.00 | 2,060.6 | -457.6 | 691.8 | 631.9 | 59.86 | 11.556 SF | | |
| 10,200.0 | 7,529.0 | 7,570.4 | 7,507.0 | 49.0 | 19.5 | 90.00 | 2,060.6 | -457.6 | 723.8 | 662.3 | 61.53 | 11.763 | | |
| 10,300.0 | 7,529.0 | 7,570.4 | 7,507.0 | 50.5 | 19.5 | 90.00 | 2,060.6 | -457.6 | 767.7 | 704.5 | 63.21 | 12.145 | | |
| 10,400.0 | 7,529.0 | 7,570.4 | 7,507.0 | 52.1 | 19.5 | 90.00 | 2,060.6 | -457.6 | 821.4 | 756.5 | 64.89 | 12.658 | | |
| 10,500.0 | 7,529.0 | 7,570.4 | 7,507.0 | 53.7 | 19.5 | 90.00 | 2,060.6 | -457.6 | 883.2 | 816.6 | 66.58 | 13.266 | | |
| 10,600.0 | 7,529.0 | 7,570.4 | 7,507.0 | 55.2 | 19.5 | 90.00 | 2,060.6 | -457.6 | 951.5 | 883.3 | 68.27 | 13.939 | | |
| 10,700.0 | 7,529.0 | 7,570.4 | 7,507.0 | 56.8 | 19.5 | 90.00 | 2,060.6 | -457.6 | 1,025.1 | 955.1 | 69.96 | 14.652 | | |
| 10,800.0 | 7,529.0 | 7,570.4 | 7,507.0 | 58.4 | 19.5 | 90.00 | 2,060.6 | -457.6 | 1,102.8 | 1,031.1 | 71.66 | 15.389 | | |
| 10,900.0 | 7,529.0 | 7,570.4 | 7,507.0 | 60.0 | 19.5 | 90.00 | 2,060.6 | -457.6 | 1,183.9 | 1,110.5 | 73.36 | 16.137 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 2-4-9 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 488-MWD | | | | | | | | | | | | | Offset Well Error: 0.0 ft | |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | | | | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | | |
| 8,900.0 | 7,529.0 | 7,548.0 | 7,481.1 | 31.2 | 19.2 | 87.78 | 2,036.0 | -457.7 | 1,202.1 | 1,161.6 | 40.47 | 29.704 | | |
| 9,000.0 | 7,529.0 | 7,548.0 | 7,481.1 | 32.4 | 19.2 | 87.78 | 2,036.0 | -457.7 | 1,120.4 | 1,078.5 | 41.94 | 26.714 | | |
| 9,100.0 | 7,529.0 | 7,563.1 | 7,496.2 | 33.6 | 19.2 | 89.07 | 2,036.6 | -458.2 | 1,041.8 | 998.3 | 43.50 | 23.949 | | |
| 9,200.0 | 7,529.0 | 7,566.0 | 7,499.1 | 34.8 | 19.2 | 89.32 | 2,036.7 | -458.3 | 967.2 | 922.1 | 45.04 | 21.473 | | |
| 9,300.0 | 7,529.0 | 7,569.0 | 7,502.1 | 36.1 | 19.2 | 89.58 | 2,036.8 | -458.3 | 897.5 | 850.9 | 46.61 | 19.257 | | |
| 9,400.0 | 7,529.0 | 7,572.1 | 7,505.2 | 37.4 | 19.2 | 89.84 | 2,037.0 | -458.4 | 834.1 | 785.9 | 48.19 | 17.307 | | |
| 9,500.0 | 7,529.0 | 7,575.3 | 7,508.3 | 38.8 | 19.2 | 90.11 | 2,037.1 | -458.5 | 778.3 | 728.5 | 49.79 | 15.630 | | |
| 9,600.0 | 7,529.0 | 7,578.5 | 7,511.5 | 40.2 | 19.2 | 90.39 | 2,037.2 | -458.6 | 732.0 | 680.6 | 51.41 | 14.238 | | |
| 9,700.0 | 7,529.0 | 7,581.8 | 7,514.8 | 41.6 | 19.2 | 90.67 | 2,037.4 | -458.7 | 697.0 | 644.0 | 53.04 | 13.142 | | |
| 9,800.0 | 7,529.0 | 7,585.2 | 7,518.3 | 43.0 | 19.2 | 90.96 | 2,037.5 | -458.8 | 675.1 | 620.5 | 54.68 | 12.348 | | |
| 9,900.0 | 7,529.0 | 7,588.7 | 7,521.7 | 44.5 | 19.2 | 91.26 | 2,037.6 | -458.8 | 667.7 | 611.4 | 56.32 | 11.854 | | |
| 9,900.2 | 7,529.0 | 7,588.7 | 7,521.8 | 44.5 | 19.2 | 91.27 | 2,037.6 | -458.8 | 667.7 | 611.3 | 56.33 | 11.854 CC, ES | | |
| 10,000.0 | 7,529.0 | 7,592.3 | 7,525.3 | 46.0 | 19.3 | 91.57 | 2,037.8 | -458.9 | 675.1 | 617.1 | 57.98 | 11.644 SF | | |
| 10,100.0 | 7,529.0 | 7,596.0 | 7,529.0 | 47.5 | 19.3 | 91.89 | 2,038.0 | -459.0 | 696.9 | 637.2 | 59.64 | 11.686 | | |
| 10,200.0 | 7,529.0 | 7,599.8 | 7,532.8 | 49.0 | 19.3 | 92.22 | 2,038.1 | -459.1 | 731.8 | 670.5 | 61.30 | 11.938 | | |
| 10,300.0 | 7,529.0 | 7,603.7 | 7,536.7 | 50.5 | 19.3 | 92.55 | 2,038.3 | -459.1 | 778.0 | 715.1 | 62.97 | 12.356 | | |
| 10,400.0 | 7,529.0 | 7,607.7 | 7,540.7 | 52.1 | 19.3 | 92.89 | 2,038.5 | -459.2 | 833.8 | 769.1 | 64.64 | 12.899 | | |
| 10,500.0 | 7,529.0 | 7,611.9 | 7,544.9 | 53.7 | 19.3 | 93.25 | 2,038.7 | -459.3 | 897.2 | 830.9 | 66.31 | 13.531 | | |
| 10,600.0 | 7,529.0 | 7,616.1 | 7,549.1 | 55.2 | 19.3 | 93.61 | 2,038.9 | -459.3 | 966.8 | 898.8 | 67.98 | 14.222 | | |
| 10,700.0 | 7,529.0 | 7,620.5 | 7,553.5 | 56.8 | 19.3 | 93.99 | 2,039.1 | -459.4 | 1,041.3 | 971.7 | 69.65 | 14.951 | | |
| 10,800.0 | 7,529.0 | 7,625.1 | 7,558.1 | 58.4 | 19.3 | 94.38 | 2,039.3 | -459.4 | 1,119.8 | 1,048.5 | 71.32 | 15.701 | | |
| 10,900.0 | 7,529.0 | 7,629.7 | 7,562.7 | 60.0 | 19.3 | 94.77 | 2,039.5 | -459.5 | 1,201.5 | 1,128.5 | 72.99 | 16.461 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 24-9 J (EXISTING) - MACHII-ROSS WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|---------|----------------|--------------------|--------|
| Survey Program: 8120-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 | 68.18 | 87.1 | 217.5 | 235.5 | | | | | |
| 100.0 | 100.0 | 76.0 | 76.0 | 0.1 | 0.1 | 68.18 | 87.1 | 217.5 | 234.3 | 234.0 | 0.26 | 918.647 | | |
| 200.0 | 200.0 | 176.0 | 176.0 | 0.3 | 0.3 | 68.18 | 87.1 | 217.5 | 234.3 | 233.7 | 0.60 | 387.813 | | |
| 300.0 | 300.0 | 276.0 | 276.0 | 0.5 | 0.5 | 68.18 | 87.1 | 217.5 | 234.3 | 233.3 | 0.95 | 245.787 CC, ES | | |
| 400.0 | 400.0 | 376.0 | 376.0 | 0.6 | 0.7 | -177.20 | 87.1 | 217.5 | 236.0 | 234.7 | 1.30 | 181.313 | | |
| 500.0 | 499.8 | 475.8 | 475.8 | 0.8 | 0.8 | -177.25 | 87.1 | 217.5 | 241.2 | 239.6 | 1.65 | 146.313 | | |
| 600.0 | 599.5 | 575.5 | 575.5 | 1.1 | 1.0 | -177.34 | 87.1 | 217.5 | 249.9 | 248.0 | 1.99 | 125.361 | | |
| 700.0 | 698.7 | 674.7 | 674.7 | 1.3 | 1.2 | -177.45 | 87.1 | 217.5 | 262.1 | 259.8 | 2.34 | 112.206 | | |
| 800.0 | 797.5 | 773.5 | 773.5 | 1.6 | 1.4 | -177.58 | 87.1 | 217.5 | 277.7 | 275.1 | 2.67 | 103.832 | | |
| 900.0 | 895.9 | 871.9 | 871.9 | 2.0 | 1.5 | -177.73 | 87.1 | 217.5 | 295.2 | 292.2 | 3.02 | 97.736 | | |
| 1,000.0 | 994.4 | 970.4 | 970.4 | 2.3 | 1.7 | -177.85 | 87.1 | 217.5 | 312.7 | 309.3 | 3.37 | 92.884 | | |
| 1,100.0 | 1,092.8 | 1,068.8 | 1,068.8 | 2.6 | 1.9 | -177.97 | 87.1 | 217.5 | 330.2 | 326.5 | 3.71 | 88.940 | | |
| 1,200.0 | 1,191.3 | 1,167.3 | 1,167.3 | 3.0 | 2.0 | -178.07 | 87.1 | 217.5 | 347.7 | 343.6 | 4.06 | 85.670 | | |
| 1,300.0 | 1,289.8 | 1,265.8 | 1,265.8 | 3.3 | 2.2 | -178.16 | 87.1 | 217.5 | 365.1 | 360.7 | 4.40 | 82.915 | | |
| 1,400.0 | 1,388.2 | 1,364.2 | 1,364.2 | 3.7 | 2.4 | -178.25 | 87.1 | 217.5 | 382.6 | 377.9 | 4.75 | 80.562 | | |
| 1,500.0 | 1,486.7 | 1,462.7 | 1,462.7 | 4.0 | 2.6 | -178.32 | 87.1 | 217.5 | 400.1 | 395.0 | 5.09 | 78.529 | | |
| 1,600.0 | 1,585.1 | 1,561.1 | 1,561.1 | 4.4 | 2.7 | -178.39 | 87.1 | 217.5 | 417.6 | 412.1 | 5.44 | 76.755 | | |
| 1,700.0 | 1,683.6 | 1,659.6 | 1,659.6 | 4.7 | 2.9 | -178.46 | 87.1 | 217.5 | 435.1 | 429.3 | 5.79 | 75.194 | | |
| 1,800.0 | 1,782.1 | 1,758.1 | 1,758.1 | 5.1 | 3.1 | -178.52 | 87.1 | 217.5 | 452.5 | 446.4 | 6.13 | 73.809 | | |
| 1,900.0 | 1,880.5 | 1,856.5 | 1,856.5 | 5.4 | 3.2 | -178.57 | 87.1 | 217.5 | 470.0 | 463.5 | 6.48 | 72.572 | | |
| 2,000.0 | 1,979.0 | 1,955.0 | 1,955.0 | 5.8 | 3.4 | -178.62 | 87.1 | 217.5 | 487.5 | 480.7 | 6.82 | 71.460 | | |
| 2,100.0 | 2,077.4 | 2,053.4 | 2,053.4 | 6.1 | 3.6 | -178.67 | 87.1 | 217.5 | 505.0 | 497.8 | 7.17 | 70.456 | | |
| 2,200.0 | 2,175.9 | 2,151.9 | 2,151.9 | 6.5 | 3.8 | -178.72 | 87.1 | 217.5 | 522.5 | 515.0 | 7.51 | 69.544 | | |
| 2,300.0 | 2,274.3 | 2,250.3 | 2,250.3 | 6.8 | 3.9 | -178.76 | 87.1 | 217.5 | 540.0 | 532.1 | 7.86 | 68.713 | | |
| 2,400.0 | 2,372.8 | 2,348.8 | 2,348.8 | 7.2 | 4.1 | -178.80 | 87.1 | 217.5 | 557.4 | 549.2 | 8.20 | 67.952 | | |
| 2,500.0 | 2,471.3 | 2,447.3 | 2,447.3 | 7.5 | 4.3 | -178.83 | 87.1 | 217.5 | 574.9 | 566.4 | 8.55 | 67.252 | | |
| 2,600.0 | 2,569.7 | 2,545.7 | 2,545.7 | 7.9 | 4.4 | -178.87 | 87.1 | 217.5 | 592.4 | 583.5 | 8.89 | 66.607 | | |
| 2,700.0 | 2,668.2 | 2,644.2 | 2,644.2 | 8.2 | 4.6 | -178.90 | 87.1 | 217.5 | 609.9 | 600.7 | 9.24 | 66.010 | | |
| 2,800.0 | 2,766.6 | 2,742.6 | 2,742.6 | 8.6 | 4.8 | -178.93 | 87.1 | 217.5 | 627.4 | 617.8 | 9.58 | 65.456 | | |
| 2,900.0 | 2,865.1 | 2,841.1 | 2,841.1 | 8.9 | 5.0 | -178.96 | 87.1 | 217.5 | 644.9 | 634.9 | 9.93 | 64.941 | | |
| 3,000.0 | 2,963.6 | 2,939.6 | 2,939.6 | 9.3 | 5.1 | -178.99 | 87.1 | 217.5 | 662.3 | 652.1 | 10.28 | 64.460 | | |
| 3,100.0 | 3,062.0 | 3,038.0 | 3,038.0 | 9.7 | 5.3 | -179.01 | 87.1 | 217.5 | 679.8 | 669.2 | 10.62 | 64.011 | | |
| 3,200.0 | 3,160.5 | 3,136.5 | 3,136.5 | 10.0 | 5.5 | -179.04 | 87.1 | 217.5 | 697.3 | 686.4 | 10.97 | 63.590 | | |
| 3,300.0 | 3,258.9 | 3,234.9 | 3,234.9 | 10.4 | 5.6 | -179.06 | 87.1 | 217.5 | 714.8 | 703.5 | 11.31 | 63.195 | | |
| 3,400.0 | 3,357.4 | 3,333.4 | 3,333.4 | 10.7 | 5.8 | -179.08 | 87.1 | 217.5 | 732.3 | 720.6 | 11.66 | 62.823 | | |
| 3,500.0 | 3,455.9 | 3,431.9 | 3,431.9 | 11.1 | 6.0 | -179.11 | 87.1 | 217.5 | 749.8 | 737.8 | 12.00 | 62.472 | | |
| 3,600.0 | 3,554.3 | 3,530.3 | 3,530.3 | 11.4 | 6.2 | -179.13 | 87.1 | 217.5 | 767.3 | 754.9 | 12.35 | 62.142 | | |
| 3,700.0 | 3,652.8 | 3,628.8 | 3,628.8 | 11.8 | 6.3 | -179.14 | 87.1 | 217.5 | 784.8 | 772.1 | 12.69 | 61.829 | | |
| 3,800.0 | 3,751.2 | 3,727.2 | 3,727.2 | 12.1 | 6.5 | -179.16 | 87.1 | 217.5 | 802.2 | 789.2 | 13.04 | 61.533 | | |
| 3,900.0 | 3,849.7 | 3,825.7 | 3,825.7 | 12.5 | 6.7 | -179.18 | 87.1 | 217.5 | 819.7 | 806.3 | 13.38 | 61.252 | | |
| 4,000.0 | 3,948.2 | 3,924.2 | 3,924.2 | 12.8 | 6.8 | -179.20 | 87.1 | 217.5 | 837.2 | 823.5 | 13.73 | 60.985 | | |
| 4,100.0 | 4,046.6 | 4,022.6 | 4,022.6 | 13.2 | 7.0 | -179.21 | 87.1 | 217.5 | 854.7 | 840.6 | 14.07 | 60.731 | | |
| 4,200.0 | 4,145.1 | 4,121.1 | 4,121.1 | 13.5 | 7.2 | -179.23 | 87.1 | 217.5 | 872.2 | 857.8 | 14.42 | 60.490 | | |
| 4,300.0 | 4,243.5 | 4,219.5 | 4,219.5 | 13.9 | 7.4 | -179.25 | 87.1 | 217.5 | 889.7 | 874.9 | 14.76 | 60.260 | | |
| 4,400.0 | 4,342.0 | 4,318.0 | 4,318.0 | 14.3 | 7.5 | -179.26 | 87.1 | 217.5 | 907.2 | 892.0 | 15.11 | 60.040 | | |
| 4,500.0 | 4,440.4 | 4,416.4 | 4,416.4 | 14.6 | 7.7 | -179.27 | 87.1 | 217.5 | 924.6 | 909.2 | 15.45 | 59.830 | | |
| 4,600.0 | 4,538.9 | 4,514.9 | 4,514.9 | 15.0 | 7.9 | -179.29 | 87.1 | 217.5 | 942.1 | 926.3 | 15.80 | 59.629 | | |
| 4,700.0 | 4,637.4 | 4,613.4 | 4,613.4 | 15.3 | 8.1 | -179.30 | 87.1 | 217.5 | 959.6 | 943.5 | 16.15 | 59.437 | | |
| 4,800.0 | 4,735.8 | 4,711.8 | 4,711.8 | 15.7 | 8.2 | -179.31 | 87.1 | 217.5 | 977.1 | 960.6 | 16.49 | 59.253 | | |
| 4,900.0 | 4,834.3 | 4,810.3 | 4,810.3 | 16.0 | 8.4 | -179.33 | 87.1 | 217.5 | 994.6 | 977.8 | 16.84 | 59.077 | | |
| 5,000.0 | 4,932.7 | 4,908.7 | 4,908.7 | 16.4 | 8.6 | -179.34 | 87.1 | 217.5 | 1,012.1 | 994.9 | 17.18 | 58.907 | | |
| 5,100.0 | 5,031.2 | 5,007.2 | 5,007.2 | 16.7 | 8.7 | -179.35 | 87.1 | 217.5 | 1,029.6 | 1,012.0 | 17.53 | 58.745 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 24-9 J (EXISTING) - MACHII-ROSS WELL - NO SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|--------------------|---------|
| Survey Program: 8120-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 | 5,129.7 | 5,105.7 | 5,105.7 | 17.1 | 8.9 | -179.36 | 87.1 | 217.5 | 1,047.1 | 1,029.2 | 17.87 | 58.588 | | |
| 5,300.0 | 5,228.1 | 5,204.1 | 5,204.1 | 17.4 | 9.1 | -179.37 | 87.1 | 217.5 | 1,064.5 | 1,046.3 | 18.22 | 58.438 | | |
| 5,400.0 | 5,326.6 | 5,302.6 | 5,302.6 | 17.8 | 9.3 | -179.38 | 87.1 | 217.5 | 1,082.0 | 1,063.5 | 18.56 | 58.293 | | |
| 5,500.0 | 5,425.0 | 5,401.0 | 5,401.0 | 18.2 | 9.4 | -179.39 | 87.1 | 217.5 | 1,099.5 | 1,080.6 | 18.91 | 58.153 | | |
| 5,600.0 | 5,523.5 | 5,499.5 | 5,499.5 | 18.5 | 9.6 | -179.40 | 87.1 | 217.5 | 1,117.0 | 1,097.7 | 19.25 | 58.019 | | |
| 5,700.0 | 5,622.0 | 5,598.0 | 5,598.0 | 18.9 | 9.8 | -179.41 | 87.1 | 217.5 | 1,134.5 | 1,114.9 | 19.60 | 57.889 | | |
| 5,800.0 | 5,720.4 | 5,696.4 | 5,696.4 | 19.2 | 9.9 | -179.42 | 87.1 | 217.5 | 1,152.0 | 1,132.0 | 19.94 | 57.764 | | |
| 5,900.0 | 5,818.9 | 5,794.9 | 5,794.9 | 19.6 | 10.1 | -179.43 | 87.1 | 217.5 | 1,169.5 | 1,149.2 | 20.29 | 57.643 | | |
| 6,000.0 | 5,917.3 | 5,893.3 | 5,893.3 | 19.9 | 10.3 | -179.43 | 87.1 | 217.5 | 1,187.0 | 1,166.3 | 20.63 | 57.526 | | |
| 6,100.0 | 6,015.8 | 5,991.8 | 5,991.8 | 20.3 | 10.5 | -179.44 | 87.1 | 217.5 | 1,204.4 | 1,183.5 | 20.98 | 57.412 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 2-8-9 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 79-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 105.60 | -73.2 | 262.2 | 272.8 | | | | | |
| 100.0 | 100.0 | 83.6 | 83.6 | 0.1 | 0.1 | 105.65 | -73.4 | 262.0 | 272.0 | 271.8 | 0.25 | 1,083.468 | | |
| 200.0 | 200.0 | 182.8 | 182.8 | 0.3 | 0.3 | 105.78 | -73.9 | 261.5 | 271.8 | 271.2 | 0.60 | 454.016 | | |
| 300.0 | 300.0 | 284.3 | 284.3 | 0.5 | 0.5 | 106.04 | -75.0 | 260.9 | 271.4 | 270.5 | 0.95 | 285.635 | | |
| 400.0 | 400.0 | 390.1 | 390.1 | 0.6 | 0.7 | -139.29 | -75.9 | 259.0 | 271.3 | 270.0 | 1.31 | 206.477 | | |
| 500.0 | 499.8 | 501.5 | 501.3 | 0.8 | 0.9 | -139.91 | -75.3 | 253.5 | 270.4 | 268.7 | 1.69 | 159.996 | | |
| 600.0 | 599.5 | 610.5 | 609.8 | 1.1 | 1.1 | -140.87 | -74.4 | 243.7 | 268.2 | 266.1 | 2.08 | 129.229 | | |
| 700.0 | 698.7 | 717.3 | 715.8 | 1.3 | 1.4 | -141.60 | -76.0 | 230.3 | 265.9 | 263.4 | 2.48 | 107.063 | | |
| 797.1 | 794.6 | 815.7 | 813.0 | 1.6 | 1.7 | -141.78 | -81.4 | 215.5 | 264.8 | 261.9 | 2.91 | 90.913 | | |
| 800.0 | 797.5 | 818.7 | 815.8 | 1.6 | 1.7 | -141.78 | -81.6 | 215.0 | 264.8 | 261.9 | 2.93 | 90.507 | | |
| 900.0 | 895.9 | 924.1 | 919.4 | 2.0 | 2.1 | -141.54 | -90.2 | 197.3 | 264.1 | 260.7 | 3.42 | 77.162 | | |
| 1,000.0 | 994.4 | 1,029.6 | 1,022.3 | 2.3 | 2.5 | -140.81 | -100.3 | 176.6 | 261.0 | 257.1 | 3.97 | 65.771 | | |
| 1,100.0 | 1,092.8 | 1,130.1 | 1,120.1 | 2.6 | 2.9 | -139.88 | -110.6 | 155.7 | 256.9 | 252.4 | 4.54 | 56.587 | | |
| 1,200.0 | 1,191.3 | 1,229.0 | 1,216.2 | 3.0 | 3.4 | -138.68 | -121.8 | 134.8 | 252.9 | 247.8 | 5.16 | 49.060 | | |
| 1,300.0 | 1,289.8 | 1,327.8 | 1,312.0 | 3.3 | 3.8 | -137.17 | -134.2 | 114.0 | 249.5 | 243.7 | 5.82 | 42.862 | | |
| 1,400.0 | 1,388.2 | 1,426.7 | 1,407.8 | 3.7 | 4.2 | -135.52 | -147.1 | 93.4 | 246.6 | 240.0 | 6.53 | 37.776 | | |
| 1,500.0 | 1,486.7 | 1,525.3 | 1,503.4 | 4.0 | 4.7 | -133.87 | -160.1 | 73.2 | 244.2 | 237.0 | 7.25 | 33.664 | | |
| 1,600.0 | 1,585.1 | 1,627.5 | 1,602.8 | 4.4 | 5.1 | -132.43 | -172.2 | 52.7 | 242.0 | 234.0 | 7.98 | 30.313 | | |
| 1,700.0 | 1,683.6 | 1,729.3 | 1,701.8 | 4.7 | 5.6 | -131.23 | -182.9 | 31.5 | 238.7 | 230.0 | 8.71 | 27.399 | | |
| 1,800.0 | 1,782.1 | 1,828.4 | 1,798.0 | 5.1 | 6.0 | -129.93 | -193.6 | 10.6 | 235.3 | 225.8 | 9.46 | 24.870 | | |
| 1,900.0 | 1,880.5 | 1,926.9 | 1,893.9 | 5.4 | 6.5 | -128.66 | -204.2 | -9.6 | 232.6 | 222.4 | 10.21 | 22.775 | | |
| 2,000.0 | 1,979.0 | 2,028.8 | 1,993.1 | 5.8 | 6.9 | -127.41 | -214.8 | -30.4 | 230.0 | 219.0 | 10.99 | 20.920 | | |
| 2,100.0 | 2,077.4 | 2,127.2 | 2,088.8 | 6.1 | 7.4 | -126.17 | -224.8 | -51.1 | 226.8 | 215.0 | 11.77 | 19.269 | | |
| 2,200.0 | 2,175.9 | 2,224.2 | 2,183.5 | 6.5 | 7.8 | -125.16 | -234.4 | -69.9 | 225.0 | 212.5 | 12.51 | 17.984 | | |
| 2,300.0 | 2,274.3 | 2,326.8 | 2,283.7 | 6.8 | 8.2 | -124.18 | -244.3 | -89.5 | 223.4 | 210.1 | 13.29 | 16.812 | | |
| 2,400.0 | 2,372.8 | 2,426.7 | 2,381.0 | 7.2 | 8.6 | -123.09 | -254.0 | -109.4 | 221.2 | 207.1 | 14.08 | 15.712 | | |
| 2,500.0 | 2,471.3 | 2,525.7 | 2,477.7 | 7.5 | 9.0 | -122.09 | -263.4 | -128.8 | 219.2 | 204.4 | 14.86 | 14.749 | | |
| 2,600.0 | 2,569.7 | 2,623.9 | 2,573.4 | 7.9 | 9.5 | -120.74 | -274.0 | -148.3 | 217.9 | 202.2 | 15.71 | 13.867 | | |
| 2,700.0 | 2,668.2 | 2,724.3 | 2,671.2 | 8.2 | 9.9 | -119.24 | -285.6 | -167.9 | 217.3 | 200.7 | 16.60 | 13.090 | | |
| 2,800.0 | 2,766.6 | 2,824.5 | 2,768.4 | 8.6 | 10.4 | -117.48 | -297.4 | -188.6 | 216.1 | 198.6 | 17.53 | 12.329 | | |
| 2,900.0 | 2,865.1 | 2,923.1 | 2,864.4 | 8.9 | 10.8 | -115.88 | -309.0 | -208.4 | 215.6 | 197.1 | 18.43 | 11.695 | | |
| 3,000.0 | 2,963.6 | 3,023.2 | 2,961.8 | 9.3 | 11.2 | -114.37 | -320.5 | -228.0 | 215.4 | 196.1 | 19.33 | 11.145 | | |
| 3,100.0 | 3,062.0 | 3,124.0 | 3,060.1 | 9.7 | 11.7 | -113.06 | -331.3 | -247.4 | 215.2 | 195.0 | 20.20 | 10.652 | | |
| 3,200.0 | 3,160.5 | 3,224.1 | 3,157.6 | 10.0 | 12.1 | -111.60 | -342.0 | -267.5 | 214.4 | 193.3 | 21.10 | 10.161 | | |
| 3,221.4 | 3,181.5 | 3,244.5 | 3,177.6 | 10.1 | 12.2 | -111.30 | -344.3 | -271.5 | 214.4 | 193.1 | 21.29 | 10.071 CC | | |
| 3,300.0 | 3,258.9 | 3,320.6 | 3,251.9 | 10.4 | 12.5 | -110.35 | -352.7 | -285.7 | 214.9 | 193.0 | 21.95 | 9.794 | | |
| 3,400.0 | 3,357.4 | 3,421.7 | 3,350.9 | 10.7 | 12.9 | -109.44 | -363.4 | -303.2 | 216.3 | 193.5 | 22.76 | 9.501 | | |
| 3,500.0 | 3,455.9 | 3,522.2 | 3,449.2 | 11.1 | 13.3 | -108.55 | -373.2 | -321.3 | 216.6 | 193.0 | 23.58 | 9.184 | | |
| 3,600.0 | 3,554.3 | 3,620.5 | 3,545.5 | 11.4 | 13.7 | -107.72 | -383.2 | -338.6 | 217.5 | 193.1 | 24.38 | 8.922 | | |
| 3,700.0 | 3,652.8 | 3,721.2 | 3,644.0 | 11.8 | 14.1 | -106.82 | -393.7 | -356.3 | 218.7 | 193.5 | 25.21 | 8.676 | | |
| 3,800.0 | 3,751.2 | 3,823.6 | 3,744.2 | 12.1 | 14.5 | -105.88 | -403.8 | -375.0 | 219.1 | 193.1 | 26.03 | 8.418 | | |
| 3,807.0 | 3,758.1 | 3,830.6 | 3,751.0 | 12.2 | 14.5 | -105.83 | -404.4 | -376.2 | 219.1 | 193.0 | 26.08 | 8.401 | | |
| 3,900.0 | 3,849.7 | 3,922.6 | 3,841.5 | 12.5 | 14.9 | -105.58 | -411.9 | -391.4 | 219.3 | 192.6 | 26.74 | 8.202 ES | | |
| 4,000.0 | 3,948.2 | 4,021.9 | 3,939.5 | 12.8 | 15.2 | -105.92 | -418.8 | -405.8 | 219.9 | 192.6 | 27.36 | 8.039 | | |
| 4,100.0 | 4,046.6 | 4,120.5 | 4,037.1 | 13.2 | 15.5 | -106.84 | -424.4 | -418.2 | 220.9 | 193.0 | 27.88 | 7.922 | | |
| 4,200.0 | 4,145.1 | 4,218.5 | 4,134.4 | 13.5 | 15.7 | -108.14 | -429.6 | -428.9 | 222.8 | 194.5 | 28.34 | 7.863 | | |
| 4,300.0 | 4,243.5 | 4,318.3 | 4,233.7 | 13.9 | 15.9 | -109.95 | -433.8 | -437.9 | 225.4 | 196.7 | 28.68 | 7.859 SF | | |
| 4,400.0 | 4,342.0 | 4,415.5 | 4,330.6 | 14.3 | 16.1 | -112.24 | -436.6 | -444.9 | 228.6 | 199.7 | 28.90 | 7.909 | | |
| 4,500.0 | 4,440.4 | 4,511.5 | 4,426.5 | 14.6 | 16.3 | -114.94 | -438.7 | -449.5 | 233.5 | 204.5 | 28.97 | 8.059 | | |
| 4,600.0 | 4,538.9 | 4,611.1 | 4,526.0 | 15.0 | 16.4 | -117.96 | -440.0 | -452.8 | 239.6 | 210.6 | 28.93 | 8.280 | | |
| 4,700.0 | 4,637.4 | 4,710.0 | 4,624.9 | 15.3 | 16.5 | -120.89 | -441.1 | -456.0 | 246.2 | 217.4 | 28.84 | 8.537 | | |
| 4,800.0 | 4,735.8 | 4,809.5 | 4,724.2 | 15.7 | 16.7 | -123.73 | -441.9 | -459.1 | 253.5 | 224.8 | 28.71 | 8.828 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 2-8-9 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: 0.0 ft | |
|--|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------------------------|---------|
| Survey Program: 79-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 | | |
| 4,900.0 | 4,834.3 | 4,910.2 | 4,824.9 | 16.0 | 16.8 | -126.47 | -442.4 | -462.6 | 260.9 | 232.4 | 28.55 | 9.138 | | |
| 5,000.0 | 4,932.7 | 5,009.9 | 4,924.6 | 16.4 | 16.9 | -129.11 | -442.3 | -466.4 | 268.3 | 239.9 | 28.36 | 9.459 | | |
| 5,100.0 | 5,031.2 | 5,108.1 | 5,022.7 | 16.7 | 17.1 | -131.60 | -442.0 | -470.0 | 276.3 | 248.1 | 28.16 | 9.812 | | |
| 5,200.0 | 5,129.7 | 5,205.9 | 5,120.5 | 17.1 | 17.2 | -134.05 | -441.4 | -473.1 | 285.1 | 257.2 | 27.92 | 10.210 | | |
| 5,300.0 | 5,228.1 | 5,304.7 | 5,219.2 | 17.4 | 17.3 | -136.40 | -440.8 | -475.9 | 294.7 | 267.0 | 27.69 | 10.642 | | |
| 5,400.0 | 5,326.6 | 5,403.5 | 5,318.0 | 17.8 | 17.4 | -138.59 | -440.2 | -478.8 | 304.7 | 277.2 | 27.48 | 11.089 | | |
| 5,500.0 | 5,425.0 | 5,502.4 | 5,416.8 | 18.2 | 17.6 | -140.65 | -439.5 | -481.6 | 315.2 | 287.9 | 27.28 | 11.552 | | |
| 5,600.0 | 5,523.5 | 5,601.2 | 5,515.6 | 18.5 | 17.7 | -142.59 | -438.8 | -484.5 | 326.0 | 298.9 | 27.11 | 12.027 | | |
| 5,700.0 | 5,622.0 | 5,700.0 | 5,614.3 | 18.9 | 17.8 | -144.39 | -438.1 | -487.3 | 337.2 | 310.2 | 26.96 | 12.507 | | |
| 5,800.0 | 5,720.4 | 5,799.4 | 5,713.6 | 19.2 | 17.9 | -146.08 | -437.5 | -490.3 | 348.6 | 321.8 | 26.84 | 12.987 | | |
| 5,900.0 | 5,818.9 | 5,898.9 | 5,813.2 | 19.6 | 18.1 | -147.65 | -436.9 | -493.4 | 360.1 | 333.4 | 26.75 | 13.460 | | |
| 6,000.0 | 5,917.3 | 5,996.1 | 5,910.3 | 19.9 | 18.2 | -149.08 | -436.4 | -496.4 | 372.0 | 345.3 | 26.70 | 13.932 | | |
| 6,100.0 | 6,015.8 | 6,093.3 | 6,007.4 | 20.3 | 18.3 | -150.43 | -435.9 | -498.8 | 384.6 | 357.9 | 26.67 | 14.419 | | |
| 6,200.0 | 6,114.2 | 6,191.2 | 6,105.3 | 20.6 | 18.4 | -151.73 | -435.2 | -501.0 | 397.7 | 371.0 | 26.65 | 14.921 | | |
| 6,300.0 | 6,212.7 | 6,289.2 | 6,203.3 | 21.0 | 18.6 | -153.00 | -434.1 | -503.0 | 411.2 | 384.5 | 26.64 | 15.434 | | |
| 6,400.0 | 6,311.2 | 6,387.5 | 6,301.5 | 21.3 | 18.7 | -154.24 | -432.8 | -504.9 | 425.0 | 398.3 | 26.64 | 15.953 | | |
| 6,500.0 | 6,409.6 | 6,486.3 | 6,400.4 | 21.7 | 18.8 | -155.44 | -431.2 | -506.7 | 439.0 | 412.3 | 26.65 | 16.471 | | |
| 6,600.0 | 6,508.1 | 6,585.7 | 6,499.7 | 22.1 | 18.9 | -156.58 | -429.4 | -508.7 | 453.1 | 426.4 | 26.69 | 16.978 | | |
| 6,700.0 | 6,606.5 | 6,687.5 | 6,601.5 | 22.4 | 19.1 | -157.70 | -427.5 | -511.1 | 466.9 | 440.2 | 26.74 | 17.465 | | |
| 6,800.0 | 6,705.0 | 6,789.7 | 6,703.6 | 22.8 | 19.2 | -158.78 | -425.5 | -514.4 | 480.2 | 453.4 | 26.80 | 17.915 | | |
| 6,900.0 | 6,803.5 | 6,890.1 | 6,803.9 | 23.1 | 19.3 | -159.77 | -423.6 | -518.0 | 493.1 | 466.2 | 26.90 | 18.333 | | |
| 7,000.0 | 6,901.9 | 6,989.1 | 6,902.8 | 23.5 | 19.5 | -160.68 | -422.0 | -521.9 | 505.8 | 478.8 | 27.02 | 18.720 | | |
| 7,100.0 | 7,000.5 | 7,086.1 | 6,999.8 | 23.8 | 19.6 | -161.77 | -421.5 | -525.3 | 518.4 | 491.4 | 27.06 | 19.157 | | |
| 7,200.0 | 7,098.0 | 7,181.3 | 7,094.9 | 24.0 | 19.8 | -162.69 | -422.2 | -528.2 | 529.9 | 502.5 | 27.41 | 19.332 | | |
| 7,300.0 | 7,191.3 | 7,272.1 | 7,185.7 | 24.1 | 19.9 | -163.45 | -422.8 | -530.4 | 541.6 | 513.6 | 27.97 | 19.363 | | |
| 7,400.0 | 7,277.8 | 7,358.8 | 7,272.3 | 24.1 | 20.0 | -164.02 | -423.1 | -532.2 | 555.6 | 527.1 | 28.54 | 19.469 | | |
| 7,500.0 | 7,354.6 | 7,436.9 | 7,350.5 | 24.1 | 20.1 | -164.50 | -423.5 | -534.1 | 574.8 | 546.0 | 28.84 | 19.929 | | |
| 7,600.0 | 7,419.6 | 7,501.6 | 7,415.1 | 24.0 | 20.2 | -164.95 | -423.7 | -535.7 | 602.2 | 573.5 | 28.73 | 20.963 | | |
| 7,700.0 | 7,470.7 | 7,551.3 | 7,464.8 | 24.0 | 20.3 | -165.36 | -423.8 | -536.8 | 640.1 | 611.7 | 28.40 | 22.542 | | |
| 7,800.0 | 7,506.4 | 7,586.2 | 7,499.7 | 24.1 | 20.3 | -165.75 | -423.8 | -537.5 | 689.0 | 660.7 | 28.24 | 24.395 | | |
| 7,900.0 | 7,525.7 | 7,605.2 | 7,518.7 | 24.2 | 20.4 | -166.01 | -423.8 | -537.8 | 747.5 | 719.0 | 28.43 | 26.290 | | |
| 8,000.0 | 7,529.0 | 7,608.7 | 7,522.2 | 24.5 | 20.4 | -166.05 | -423.8 | -537.8 | 813.3 | 784.5 | 28.79 | 28.245 | | |
| 8,100.0 | 7,529.0 | 7,608.9 | 7,522.4 | 24.8 | 20.4 | -166.07 | -423.8 | -537.9 | 885.2 | 855.8 | 29.40 | 30.105 | | |
| 8,200.0 | 7,529.0 | 7,609.1 | 7,522.6 | 25.3 | 20.4 | -166.09 | -423.8 | -537.9 | 962.2 | 932.0 | 30.19 | 31.872 | | |
| 8,300.0 | 7,529.0 | 7,609.3 | 7,522.8 | 25.9 | 20.4 | -166.11 | -423.8 | -537.9 | 1,043.1 | 1,012.0 | 31.13 | 33.513 | | |
| 8,400.0 | 7,529.0 | 7,609.5 | 7,523.0 | 26.5 | 20.4 | -166.13 | -423.8 | -537.9 | 1,127.1 | 1,094.9 | 32.19 | 35.016 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3A-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | -89.96 | 0.0 | -11.2 | 11.2 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | -89.96 | 0.0 | -11.2 | 11.2 | 10.9 | 0.24 | 45.763 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | -89.96 | 0.0 | -11.2 | 11.2 | 10.6 | 0.59 | 18.844 | CC, ES | |
| 300.0 | 300.0 | 299.6 | 299.6 | 0.5 | 0.5 | -92.52 | -0.6 | -12.8 | 12.8 | 11.9 | 0.94 | 13.597 | | |
| 400.0 | 400.0 | 399.0 | 398.9 | 0.6 | 0.7 | 19.13 | -2.3 | -17.7 | 16.2 | 14.9 | 1.29 | 12.568 | | |
| 500.0 | 499.8 | 498.4 | 497.8 | 0.8 | 0.9 | 18.09 | -5.1 | -25.8 | 19.7 | 18.1 | 1.64 | 12.004 | | |
| 600.0 | 599.5 | 597.6 | 596.3 | 1.1 | 1.2 | 18.14 | -9.1 | -37.2 | 23.3 | 21.3 | 2.00 | 11.644 | | |
| 700.0 | 698.7 | 696.7 | 694.2 | 1.3 | 1.5 | 18.85 | -14.2 | -51.7 | 26.9 | 24.5 | 2.36 | 11.371 | | |
| 800.0 | 797.5 | 795.6 | 791.4 | 1.6 | 1.8 | 19.97 | -20.4 | -69.4 | 30.6 | 27.8 | 2.75 | 11.123 | | |
| 900.0 | 895.9 | 894.7 | 888.0 | 2.0 | 2.3 | 20.51 | -27.6 | -90.2 | 35.7 | 32.5 | 3.15 | 11.347 | | |
| 1,000.0 | 994.4 | 994.6 | 985.1 | 2.3 | 2.7 | 20.59 | -35.2 | -111.9 | 41.7 | 38.1 | 3.55 | 11.753 | | |
| 1,100.0 | 1,092.8 | 1,094.4 | 1,082.2 | 2.6 | 3.1 | 20.65 | -42.8 | -133.6 | 47.7 | 43.7 | 3.95 | 12.068 | | |
| 1,200.0 | 1,191.3 | 1,194.2 | 1,179.4 | 3.0 | 3.5 | 20.70 | -50.4 | -155.4 | 53.7 | 49.3 | 4.36 | 12.319 | | |
| 1,300.0 | 1,289.8 | 1,294.0 | 1,276.5 | 3.3 | 4.0 | 20.73 | -58.0 | -177.1 | 59.6 | 54.9 | 4.76 | 12.523 | | |
| 1,400.0 | 1,388.2 | 1,393.8 | 1,373.6 | 3.7 | 4.4 | 20.77 | -65.6 | -198.8 | 65.6 | 60.5 | 5.17 | 12.691 | | |
| 1,500.0 | 1,486.7 | 1,493.7 | 1,470.8 | 4.0 | 4.9 | 20.79 | -73.2 | -220.5 | 71.6 | 66.0 | 5.58 | 12.833 | | |
| 1,600.0 | 1,585.1 | 1,593.5 | 1,567.9 | 4.4 | 5.3 | 20.81 | -80.8 | -242.3 | 77.6 | 71.6 | 5.99 | 12.954 | | |
| 1,700.0 | 1,683.6 | 1,693.3 | 1,665.0 | 4.7 | 5.8 | 20.83 | -88.4 | -264.0 | 83.6 | 77.2 | 6.40 | 13.058 | | |
| 1,800.0 | 1,782.1 | 1,793.1 | 1,762.2 | 5.1 | 6.2 | 20.85 | -96.0 | -285.7 | 89.6 | 82.8 | 6.81 | 13.148 | | |
| 1,900.0 | 1,880.5 | 1,892.9 | 1,859.3 | 5.4 | 6.6 | 20.86 | -103.6 | -307.4 | 95.6 | 88.3 | 7.23 | 13.227 | | |
| 2,000.0 | 1,979.0 | 1,992.8 | 1,956.4 | 5.8 | 7.1 | 20.87 | -111.2 | -329.2 | 101.6 | 93.9 | 7.64 | 13.298 | | |
| 2,100.0 | 2,077.4 | 2,092.6 | 2,053.5 | 6.1 | 7.5 | 20.88 | -118.8 | -350.9 | 107.5 | 99.5 | 8.05 | 13.360 | | |
| 2,200.0 | 2,175.9 | 2,192.4 | 2,150.7 | 6.5 | 8.0 | 20.89 | -126.4 | -372.6 | 113.5 | 105.1 | 8.46 | 13.416 | | |
| 2,300.0 | 2,274.3 | 2,292.2 | 2,247.8 | 6.8 | 8.4 | 20.90 | -134.0 | -394.4 | 119.5 | 110.6 | 8.88 | 13.466 | | |
| 2,400.0 | 2,372.8 | 2,392.1 | 2,344.9 | 7.2 | 8.9 | 20.91 | -141.6 | -416.1 | 125.5 | 116.2 | 9.29 | 13.512 | | |
| 2,500.0 | 2,471.3 | 2,491.9 | 2,442.1 | 7.5 | 9.3 | 20.92 | -149.2 | -437.8 | 131.5 | 121.8 | 9.70 | 13.554 | | |
| 2,600.0 | 2,569.7 | 2,591.7 | 2,539.2 | 7.9 | 9.7 | 20.92 | -156.8 | -459.5 | 137.5 | 127.4 | 10.12 | 13.591 | | |
| 2,700.0 | 2,668.2 | 2,691.5 | 2,636.3 | 8.2 | 10.2 | 20.93 | -164.4 | -481.3 | 143.5 | 132.9 | 10.53 | 13.626 | | |
| 2,800.0 | 2,766.6 | 2,791.3 | 2,733.5 | 8.6 | 10.6 | 20.94 | -172.0 | -503.0 | 149.5 | 138.5 | 10.94 | 13.658 | | |
| 2,900.0 | 2,865.1 | 2,891.2 | 2,830.6 | 8.9 | 11.1 | 20.94 | -179.6 | -524.7 | 155.5 | 144.1 | 11.36 | 13.688 | | |
| 3,000.0 | 2,963.6 | 2,991.0 | 2,927.7 | 9.3 | 11.5 | 20.95 | -187.2 | -546.4 | 161.4 | 149.7 | 11.77 | 13.715 | | |
| 3,100.0 | 3,062.0 | 3,090.8 | 3,024.9 | 9.7 | 12.0 | 20.95 | -194.9 | -568.2 | 167.4 | 155.2 | 12.19 | 13.741 | | |
| 3,200.0 | 3,160.5 | 3,190.6 | 3,122.0 | 10.0 | 12.4 | 20.95 | -202.5 | -589.9 | 173.4 | 160.8 | 12.60 | 13.764 | | |
| 3,300.0 | 3,258.9 | 3,290.4 | 3,219.1 | 10.4 | 12.9 | 20.96 | -210.1 | -611.6 | 179.4 | 166.4 | 13.01 | 13.786 | | |
| 3,400.0 | 3,357.4 | 3,390.3 | 3,316.2 | 10.7 | 13.3 | 20.96 | -217.7 | -633.3 | 185.4 | 172.0 | 13.43 | 13.807 | | |
| 3,500.0 | 3,455.9 | 3,490.1 | 3,413.4 | 11.1 | 13.8 | 20.97 | -225.3 | -655.1 | 191.4 | 177.5 | 13.84 | 13.826 | | |
| 3,600.0 | 3,554.3 | 3,589.9 | 3,510.5 | 11.4 | 14.2 | 20.97 | -232.9 | -676.8 | 197.4 | 183.1 | 14.26 | 13.845 | | |
| 3,700.0 | 3,652.8 | 3,689.7 | 3,607.6 | 11.8 | 14.7 | 20.97 | -240.5 | -698.5 | 203.4 | 188.7 | 14.67 | 13.862 | | |
| 3,800.0 | 3,751.2 | 3,789.5 | 3,704.8 | 12.1 | 15.1 | 20.97 | -248.1 | -720.3 | 209.3 | 194.3 | 15.08 | 13.878 | | |
| 3,900.0 | 3,849.7 | 3,889.4 | 3,801.9 | 12.5 | 15.5 | 20.98 | -255.7 | -742.0 | 215.3 | 199.8 | 15.50 | 13.893 | | |
| 4,000.0 | 3,948.2 | 3,989.2 | 3,899.0 | 12.8 | 16.0 | 20.98 | -263.3 | -763.7 | 221.3 | 205.4 | 15.91 | 13.908 | | |
| 4,100.0 | 4,046.6 | 4,089.0 | 3,996.2 | 13.2 | 16.4 | 20.98 | -270.9 | -785.4 | 227.3 | 211.0 | 16.33 | 13.921 | | |
| 4,200.0 | 4,145.1 | 4,188.8 | 4,093.3 | 13.5 | 16.9 | 20.98 | -278.5 | -807.2 | 233.3 | 216.6 | 16.74 | 13.934 | | |
| 4,300.0 | 4,243.5 | 4,288.6 | 4,190.4 | 13.9 | 17.3 | 20.99 | -286.1 | -828.9 | 239.3 | 222.1 | 17.16 | 13.946 | | |
| 4,400.0 | 4,342.0 | 4,388.5 | 4,287.5 | 14.3 | 17.8 | 20.99 | -293.7 | -850.6 | 245.3 | 227.7 | 17.57 | 13.958 | | |
| 4,500.0 | 4,440.4 | 4,488.3 | 4,384.7 | 14.6 | 18.2 | 20.99 | -301.3 | -872.3 | 251.3 | 233.3 | 17.99 | 13.969 | | |
| 4,600.0 | 4,538.9 | 4,588.1 | 4,481.8 | 15.0 | 18.7 | 20.99 | -308.9 | -894.1 | 257.3 | 238.9 | 18.40 | 13.980 | | |
| 4,700.0 | 4,637.4 | 4,687.9 | 4,578.9 | 15.3 | 19.1 | 20.99 | -316.5 | -915.8 | 263.2 | 244.4 | 18.82 | 13.990 | | |
| 4,800.0 | 4,735.8 | 4,787.7 | 4,676.1 | 15.7 | 19.6 | 21.00 | -324.1 | -937.5 | 269.2 | 250.0 | 19.23 | 14.000 | | |
| 4,900.0 | 4,834.3 | 4,887.6 | 4,773.2 | 16.0 | 20.0 | 21.00 | -331.7 | -959.2 | 275.2 | 255.6 | 19.65 | 14.009 | | |
| 5,000.0 | 4,932.7 | 4,987.4 | 4,870.3 | 16.4 | 20.5 | 21.00 | -339.3 | -981.0 | 281.2 | 261.1 | 20.06 | 14.018 | | |
| 5,100.0 | 5,031.2 | 5,087.2 | 4,967.5 | 16.7 | 20.9 | 21.00 | -346.9 | -1,002.7 | 287.2 | 266.7 | 20.48 | 14.026 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3A-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 5,200.0 | 5,129.7 | 5,187.0 | 5,064.6 | 17.1 | 21.3 | 21.00 | -354.5 | -1,024.4 | 293.2 | 272.3 | 20.89 | 14.035 | | |
| 5,300.0 | 5,228.1 | 5,286.8 | 5,161.7 | 17.4 | 21.8 | 21.00 | -362.1 | -1,046.2 | 299.2 | 277.9 | 21.30 | 14.042 | | |
| 5,400.0 | 5,326.6 | 5,386.7 | 5,258.9 | 17.8 | 22.2 | 21.00 | -369.7 | -1,067.9 | 305.2 | 283.4 | 21.72 | 14.050 | | |
| 5,500.0 | 5,425.0 | 5,486.5 | 5,356.0 | 18.2 | 22.7 | 21.01 | -377.3 | -1,089.6 | 311.1 | 289.0 | 22.13 | 14.057 | | |
| 5,600.0 | 5,523.5 | 5,586.3 | 5,453.1 | 18.5 | 23.1 | 21.01 | -384.9 | -1,111.3 | 317.1 | 294.6 | 22.55 | 14.064 | | |
| 5,700.0 | 5,622.0 | 5,686.1 | 5,550.2 | 18.9 | 23.6 | 21.01 | -392.5 | -1,133.1 | 323.1 | 300.2 | 22.96 | 14.071 | | |
| 5,800.0 | 5,720.4 | 5,785.9 | 5,647.4 | 19.2 | 24.0 | 21.01 | -400.1 | -1,154.8 | 329.1 | 305.7 | 23.38 | 14.077 | | |
| 5,900.0 | 5,818.9 | 5,885.8 | 5,744.5 | 19.6 | 24.5 | 21.01 | -407.7 | -1,176.5 | 335.1 | 311.3 | 23.79 | 14.083 | | |
| 6,000.0 | 5,917.3 | 5,985.6 | 5,841.6 | 19.9 | 24.9 | 21.01 | -415.3 | -1,198.2 | 341.1 | 316.9 | 24.21 | 14.089 | | |
| 6,100.0 | 6,015.8 | 6,085.4 | 5,938.8 | 20.3 | 25.4 | 21.01 | -422.9 | -1,220.0 | 347.1 | 322.5 | 24.62 | 14.095 | | |
| 6,200.0 | 6,114.2 | 6,185.2 | 6,035.9 | 20.6 | 25.8 | 21.01 | -430.5 | -1,241.7 | 353.1 | 328.0 | 25.04 | 14.101 | | |
| 6,300.0 | 6,212.7 | 6,285.1 | 6,133.0 | 21.0 | 26.3 | 21.01 | -438.1 | -1,263.4 | 359.1 | 333.6 | 25.45 | 14.106 | | |
| 6,400.0 | 6,311.2 | 6,384.9 | 6,230.2 | 21.3 | 26.7 | 21.01 | -445.7 | -1,285.1 | 365.0 | 339.2 | 25.87 | 14.111 | | |
| 6,500.0 | 6,409.6 | 6,484.7 | 6,327.3 | 21.7 | 27.1 | 21.02 | -453.3 | -1,306.9 | 371.0 | 344.7 | 26.28 | 14.116 | | |
| 6,600.0 | 6,508.1 | 6,584.5 | 6,424.4 | 22.1 | 27.6 | 21.02 | -460.9 | -1,328.6 | 377.0 | 350.3 | 26.70 | 14.121 | | |
| 6,700.0 | 6,606.5 | 6,684.3 | 6,521.5 | 22.4 | 28.0 | 21.02 | -468.5 | -1,350.3 | 383.0 | 355.9 | 27.11 | 14.126 | | |
| 6,800.0 | 6,705.0 | 6,784.2 | 6,618.7 | 22.8 | 28.5 | 21.02 | -476.1 | -1,372.1 | 389.0 | 361.5 | 27.53 | 14.131 | | |
| 6,900.0 | 6,803.5 | 6,884.4 | 6,716.2 | 23.1 | 28.9 | 21.04 | -483.6 | -1,393.9 | 395.0 | 367.0 | 27.95 | 14.134 | | |
| 7,000.0 | 6,901.9 | 6,986.5 | 6,815.7 | 23.5 | 29.3 | 22.62 | -480.3 | -1,416.1 | 400.5 | 371.7 | 28.86 | 13.878 | | |
| 7,100.0 | 7,000.5 | 7,083.7 | 6,908.4 | 23.8 | 29.6 | -20.25 | -460.4 | -1,436.9 | 406.6 | 376.2 | 30.42 | 13.366 | | |
| 7,200.0 | 7,098.0 | 7,177.4 | 6,993.4 | 24.0 | 29.7 | -50.42 | -426.3 | -1,455.9 | 413.7 | 382.1 | 31.61 | 13.089 | | |
| 7,300.0 | 7,191.3 | 7,268.1 | 7,069.6 | 24.1 | 29.9 | -59.50 | -380.2 | -1,472.9 | 421.5 | 389.4 | 32.15 | 13.112 | | |
| 7,400.0 | 7,277.8 | 7,356.4 | 7,136.0 | 24.1 | 29.9 | -62.24 | -324.0 | -1,487.8 | 429.5 | 397.5 | 31.93 | 13.451 | | |
| 7,500.0 | 7,354.6 | 7,442.7 | 7,191.9 | 24.1 | 30.0 | -62.79 | -259.7 | -1,500.3 | 437.1 | 406.1 | 31.00 | 14.103 | | |
| 7,600.0 | 7,419.6 | 7,527.3 | 7,237.1 | 24.0 | 30.1 | -62.54 | -188.9 | -1,510.4 | 444.0 | 414.5 | 29.56 | 15.021 | | |
| 7,700.0 | 7,470.7 | 7,610.8 | 7,271.2 | 24.0 | 30.1 | -62.02 | -113.2 | -1,518.0 | 449.8 | 421.8 | 28.00 | 16.063 | | |
| 7,800.0 | 7,506.4 | 7,693.3 | 7,294.1 | 24.1 | 30.2 | -61.50 | -34.2 | -1,523.1 | 454.0 | 427.2 | 26.82 | 16.929 | | |
| 7,900.0 | 7,525.7 | 7,775.2 | 7,305.5 | 24.2 | 30.3 | -61.10 | 46.8 | -1,525.7 | 456.6 | 430.0 | 26.54 | 17.202 | | |
| 8,000.0 | 7,529.0 | 7,865.8 | 7,307.0 | 24.5 | 30.5 | -60.95 | 137.4 | -1,526.0 | 457.2 | 429.9 | 27.29 | 16.755 | | |
| 8,100.0 | 7,529.0 | 7,965.8 | 7,307.0 | 24.8 | 30.7 | -60.95 | 237.4 | -1,526.0 | 457.2 | 428.8 | 28.35 | 16.128 | | |
| 8,200.0 | 7,529.0 | 8,065.8 | 7,307.0 | 25.3 | 31.1 | -60.95 | 337.4 | -1,526.0 | 457.2 | 427.5 | 29.69 | 15.401 | | |
| 8,300.0 | 7,529.0 | 8,165.8 | 7,307.0 | 25.9 | 31.6 | -60.95 | 437.4 | -1,526.0 | 457.2 | 425.9 | 31.27 | 14.620 | | |
| 8,400.0 | 7,529.0 | 8,265.8 | 7,307.0 | 26.5 | 32.1 | -60.95 | 537.4 | -1,526.0 | 457.2 | 424.1 | 33.07 | 13.827 | | |
| 8,500.0 | 7,529.0 | 8,365.8 | 7,307.0 | 27.3 | 32.7 | -60.95 | 637.4 | -1,526.0 | 457.2 | 422.2 | 35.04 | 13.048 | | |
| 8,600.0 | 7,529.0 | 8,465.8 | 7,307.0 | 28.2 | 33.4 | -60.95 | 737.4 | -1,526.0 | 457.2 | 420.0 | 37.16 | 12.303 | | |
| 8,700.0 | 7,529.0 | 8,565.8 | 7,307.0 | 29.1 | 34.2 | -60.95 | 837.4 | -1,526.0 | 457.2 | 417.8 | 39.41 | 11.601 | | |
| 8,800.0 | 7,529.0 | 8,665.8 | 7,307.0 | 30.1 | 35.1 | -60.95 | 937.4 | -1,526.0 | 457.2 | 415.4 | 41.76 | 10.948 | | |
| 8,900.0 | 7,529.0 | 8,765.8 | 7,307.0 | 31.2 | 36.0 | -60.95 | 1,037.4 | -1,526.0 | 457.2 | 413.0 | 44.20 | 10.343 | | |
| 9,000.0 | 7,529.0 | 8,865.8 | 7,307.0 | 32.4 | 37.0 | -60.95 | 1,137.4 | -1,526.0 | 457.2 | 410.5 | 46.72 | 9.786 | | |
| 9,100.0 | 7,529.0 | 8,965.8 | 7,307.0 | 33.6 | 38.0 | -60.95 | 1,237.4 | -1,526.0 | 457.2 | 407.9 | 49.30 | 9.274 | | |
| 9,200.0 | 7,529.0 | 9,065.8 | 7,307.0 | 34.8 | 39.1 | -60.95 | 1,337.4 | -1,526.0 | 457.2 | 405.3 | 51.93 | 8.804 | | |
| 9,300.0 | 7,529.0 | 9,165.8 | 7,307.0 | 36.1 | 40.3 | -60.95 | 1,437.4 | -1,526.0 | 457.2 | 402.6 | 54.61 | 8.372 | | |
| 9,400.0 | 7,529.0 | 9,265.8 | 7,307.0 | 37.4 | 41.4 | -60.95 | 1,537.4 | -1,526.0 | 457.2 | 399.9 | 57.33 | 7.975 | | |
| 9,500.0 | 7,529.0 | 9,365.8 | 7,307.0 | 38.8 | 42.7 | -60.95 | 1,637.4 | -1,526.0 | 457.2 | 397.1 | 60.08 | 7.609 | | |
| 9,600.0 | 7,529.0 | 9,465.8 | 7,307.0 | 40.2 | 43.9 | -60.95 | 1,737.4 | -1,526.0 | 457.2 | 394.3 | 62.86 | 7.273 | | |
| 9,700.0 | 7,529.0 | 9,565.8 | 7,307.0 | 41.6 | 45.2 | -60.95 | 1,837.4 | -1,526.0 | 457.2 | 391.5 | 65.67 | 6.962 | | |
| 9,800.0 | 7,529.0 | 9,665.8 | 7,307.0 | 43.0 | 46.5 | -60.95 | 1,937.4 | -1,526.0 | 457.2 | 388.7 | 68.50 | 6.674 | | |
| 9,900.0 | 7,529.0 | 9,765.8 | 7,307.0 | 44.5 | 47.9 | -60.95 | 2,037.4 | -1,526.0 | 457.2 | 385.8 | 71.36 | 6.407 | | |
| 10,000.0 | 7,529.0 | 9,865.8 | 7,307.0 | 46.0 | 49.3 | -60.95 | 2,137.4 | -1,526.0 | 457.2 | 383.0 | 74.22 | 6.160 | | |
| 10,100.0 | 7,529.0 | 9,965.8 | 7,307.0 | 47.5 | 50.7 | -60.95 | 2,237.4 | -1,526.0 | 457.2 | 380.1 | 77.11 | 5.929 | | |
| 10,200.0 | 7,529.0 | 10,065.8 | 7,307.0 | 49.0 | 52.1 | -60.95 | 2,337.4 | -1,526.0 | 457.2 | 377.2 | 80.01 | 5.714 | | |
| 10,300.0 | 7,529.0 | 10,165.8 | 7,307.0 | 50.5 | 53.5 | -60.95 | 2,437.4 | -1,526.0 | 457.2 | 374.3 | 82.92 | 5.514 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3A-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | |
| 10,400.0 | 7,529.0 | 10,265.8 | 7,307.0 | 52.1 | 55.0 | -60.95 | 2,537.4 | -1,526.0 | 457.2 | 371.3 | 85.84 | 5.326 | |
| 10,500.0 | 7,529.0 | 10,365.8 | 7,307.0 | 53.7 | 56.5 | -60.95 | 2,637.4 | -1,526.0 | 457.2 | 368.4 | 88.77 | 5.150 | |
| 10,600.0 | 7,529.0 | 10,465.8 | 7,307.0 | 55.2 | 58.0 | -60.95 | 2,737.4 | -1,526.0 | 457.2 | 365.5 | 91.71 | 4.985 | |
| 10,700.0 | 7,529.0 | 10,565.8 | 7,307.0 | 56.8 | 59.5 | -60.95 | 2,837.4 | -1,526.0 | 457.2 | 362.5 | 94.66 | 4.830 | |
| 10,800.0 | 7,529.0 | 10,665.8 | 7,307.0 | 58.4 | 61.0 | -60.95 | 2,937.4 | -1,526.0 | 457.2 | 359.6 | 97.62 | 4.683 | |
| 10,900.0 | 7,529.0 | 10,765.8 | 7,307.0 | 60.0 | 62.5 | -60.95 | 3,037.4 | -1,526.0 | 457.2 | 356.6 | 100.59 | 4.545 | |
| 11,000.0 | 7,529.0 | 10,865.8 | 7,307.0 | 61.6 | 64.1 | -60.95 | 3,137.4 | -1,526.0 | 457.2 | 353.6 | 103.56 | 4.415 | |
| 11,100.0 | 7,529.0 | 10,965.8 | 7,307.0 | 63.2 | 65.6 | -60.95 | 3,237.4 | -1,526.0 | 457.2 | 350.7 | 106.53 | 4.292 | |
| 11,200.0 | 7,529.0 | 11,065.8 | 7,307.0 | 64.9 | 67.2 | -60.95 | 3,337.4 | -1,526.0 | 457.2 | 347.7 | 109.52 | 4.175 | |
| 11,300.0 | 7,529.0 | 11,165.8 | 7,307.0 | 66.5 | 68.8 | -60.95 | 3,437.4 | -1,526.0 | 457.2 | 344.7 | 112.50 | 4.064 | |
| 11,400.0 | 7,529.0 | 11,265.8 | 7,307.0 | 68.1 | 70.4 | -60.95 | 3,537.4 | -1,526.0 | 457.2 | 341.7 | 115.49 | 3.959 | |
| 11,500.0 | 7,529.0 | 11,365.8 | 7,307.0 | 69.8 | 72.0 | -60.95 | 3,637.4 | -1,526.0 | 457.2 | 338.7 | 118.49 | 3.859 | |
| 11,600.0 | 7,529.0 | 11,465.8 | 7,307.0 | 71.4 | 73.6 | -60.95 | 3,737.4 | -1,526.0 | 457.2 | 335.7 | 121.49 | 3.763 | |
| 11,700.0 | 7,529.0 | 11,565.8 | 7,307.0 | 73.1 | 75.2 | -60.95 | 3,837.4 | -1,526.0 | 457.2 | 332.7 | 124.49 | 3.672 | |
| 11,800.0 | 7,529.0 | 11,665.8 | 7,307.0 | 74.8 | 76.8 | -60.95 | 3,937.4 | -1,526.0 | 457.2 | 329.7 | 127.50 | 3.586 | |
| 11,900.0 | 7,529.0 | 11,765.8 | 7,307.0 | 76.4 | 78.4 | -60.95 | 4,037.4 | -1,526.0 | 457.2 | 326.7 | 130.51 | 3.503 | |
| 12,000.0 | 7,529.0 | 11,865.8 | 7,307.0 | 78.1 | 80.0 | -60.95 | 4,137.4 | -1,526.0 | 457.2 | 323.7 | 133.52 | 3.424 | |
| 12,100.0 | 7,529.0 | 11,965.8 | 7,307.0 | 79.8 | 81.7 | -60.95 | 4,237.4 | -1,526.0 | 457.2 | 320.7 | 136.53 | 3.349 | |
| 12,200.0 | 7,529.0 | 12,065.8 | 7,307.0 | 81.4 | 83.3 | -60.95 | 4,337.4 | -1,526.0 | 457.2 | 317.6 | 139.55 | 3.276 | |
| 12,300.0 | 7,529.0 | 12,165.8 | 7,307.0 | 83.1 | 84.9 | -60.95 | 4,437.4 | -1,526.0 | 457.2 | 314.6 | 142.57 | 3.207 | |
| 12,400.0 | 7,529.0 | 12,265.8 | 7,307.0 | 84.8 | 86.6 | -60.95 | 4,537.4 | -1,526.0 | 457.2 | 311.6 | 145.59 | 3.140 | |
| 12,500.0 | 7,529.0 | 12,365.8 | 7,307.0 | 86.5 | 88.2 | -60.95 | 4,637.4 | -1,526.0 | 457.2 | 308.6 | 148.62 | 3.076 | |
| 12,600.0 | 7,529.0 | 12,465.8 | 7,307.0 | 88.2 | 89.9 | -60.95 | 4,737.4 | -1,526.0 | 457.2 | 305.5 | 151.64 | 3.015 | |
| 12,700.0 | 7,529.0 | 12,565.8 | 7,307.0 | 89.9 | 91.5 | -60.95 | 4,837.4 | -1,526.0 | 457.2 | 302.5 | 154.67 | 2.956 | |
| 12,800.0 | 7,529.0 | 12,665.8 | 7,307.0 | 91.5 | 93.2 | -60.95 | 4,937.4 | -1,526.0 | 457.2 | 299.5 | 157.70 | 2.899 | |
| 12,900.0 | 7,529.0 | 12,765.8 | 7,307.0 | 93.2 | 94.9 | -60.95 | 5,037.4 | -1,526.0 | 457.2 | 296.5 | 160.73 | 2.844 | |
| 13,000.0 | 7,529.0 | 12,865.8 | 7,307.0 | 94.9 | 96.5 | -60.95 | 5,137.4 | -1,526.0 | 457.2 | 293.4 | 163.76 | 2.792 | |
| 13,097.3 | 7,529.0 | 12,963.2 | 7,307.0 | 96.6 | 98.2 | -60.95 | 5,234.8 | -1,526.0 | 457.2 | 290.5 | 166.72 | 2.742 SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3C-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.06 | 0.0 | 8.4 | 8.4 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.06 | 0.0 | 8.4 | 8.4 | 8.1 | 0.24 | 34.322 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.06 | 0.0 | 8.4 | 8.4 | 7.8 | 0.59 | 14.133 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.06 | 0.0 | 8.4 | 8.4 | 7.4 | 0.94 | 8.898 CC, ES | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -159.47 | 0.0 | 8.4 | 10.0 | 8.7 | 1.29 | 7.742 | | | |
| 500.0 | 499.8 | 500.1 | 500.1 | 0.8 | 0.8 | -165.21 | -0.5 | 7.6 | 14.2 | 12.6 | 1.64 | 8.660 | | | |
| 600.0 | 599.5 | 600.2 | 600.1 | 1.1 | 1.0 | -168.66 | -1.9 | 5.4 | 20.3 | 18.3 | 1.99 | 10.188 | | | |
| 700.0 | 698.7 | 700.2 | 700.1 | 1.3 | 1.2 | -170.64 | -4.2 | 1.7 | 28.1 | 25.8 | 2.33 | 12.042 | | | |
| 800.0 | 797.5 | 800.3 | 800.0 | 1.6 | 1.4 | -171.77 | -7.5 | -3.4 | 37.8 | 35.1 | 2.68 | 14.086 | | | |
| 900.0 | 895.9 | 900.6 | 899.9 | 2.0 | 1.6 | -172.21 | -11.7 | -10.1 | 47.6 | 44.5 | 3.04 | 15.674 | | | |
| 1,000.0 | 994.4 | 1,001.1 | 1,000.0 | 2.3 | 1.8 | -172.02 | -16.9 | -18.2 | 55.7 | 52.3 | 3.39 | 16.414 | | | |
| 1,100.0 | 1,092.8 | 1,101.9 | 1,100.1 | 2.6 | 2.1 | -171.43 | -23.0 | -27.9 | 62.2 | 58.4 | 3.76 | 16.538 | | | |
| 1,200.0 | 1,191.3 | 1,202.9 | 1,200.2 | 3.0 | 2.3 | -170.52 | -30.0 | -39.1 | 67.0 | 62.8 | 4.13 | 16.202 | | | |
| 1,300.0 | 1,289.8 | 1,303.6 | 1,299.8 | 3.3 | 2.6 | -169.32 | -38.0 | -51.6 | 70.2 | 65.7 | 4.52 | 15.539 | | | |
| 1,400.0 | 1,388.2 | 1,403.5 | 1,398.6 | 3.7 | 2.9 | -168.14 | -46.0 | -64.4 | 73.1 | 68.2 | 4.91 | 14.890 | | | |
| 1,500.0 | 1,486.7 | 1,503.4 | 1,497.4 | 4.0 | 3.2 | -167.04 | -54.1 | -77.1 | 76.0 | 70.7 | 5.31 | 14.322 | | | |
| 1,600.0 | 1,585.1 | 1,603.4 | 1,596.2 | 4.4 | 3.5 | -166.03 | -62.2 | -89.9 | 78.9 | 73.2 | 5.71 | 13.819 | | | |
| 1,700.0 | 1,683.6 | 1,703.3 | 1,695.0 | 4.7 | 3.8 | -165.09 | -70.3 | -102.6 | 81.9 | 75.8 | 6.13 | 13.370 | | | |
| 1,800.0 | 1,782.1 | 1,803.3 | 1,793.8 | 5.1 | 4.1 | -164.21 | -78.3 | -115.4 | 84.9 | 78.4 | 6.55 | 12.968 | | | |
| 1,900.0 | 1,880.5 | 1,903.2 | 1,892.6 | 5.4 | 4.4 | -163.40 | -86.4 | -128.2 | 87.9 | 80.9 | 6.97 | 12.606 | | | |
| 2,000.0 | 1,979.0 | 2,003.2 | 1,991.4 | 5.8 | 4.7 | -162.64 | -94.5 | -140.9 | 91.0 | 83.5 | 7.41 | 12.278 | | | |
| 2,100.0 | 2,077.4 | 2,103.1 | 2,090.2 | 6.1 | 5.0 | -161.92 | -102.6 | -153.7 | 94.0 | 86.1 | 7.85 | 11.980 | | | |
| 2,200.0 | 2,175.9 | 2,203.1 | 2,189.0 | 6.5 | 5.3 | -161.26 | -110.6 | -166.4 | 97.0 | 88.8 | 8.29 | 11.708 | | | |
| 2,300.0 | 2,274.3 | 2,303.0 | 2,287.8 | 6.8 | 5.7 | -160.63 | -118.7 | -179.2 | 100.1 | 91.4 | 8.74 | 11.458 | | | |
| 2,400.0 | 2,372.8 | 2,403.0 | 2,386.6 | 7.2 | 6.0 | -160.04 | -126.8 | -191.9 | 103.2 | 94.0 | 9.19 | 11.229 | | | |
| 2,500.0 | 2,471.3 | 2,502.9 | 2,485.4 | 7.5 | 6.3 | -159.49 | -134.8 | -204.7 | 106.3 | 96.6 | 9.65 | 11.018 | | | |
| 2,600.0 | 2,569.7 | 2,602.9 | 2,584.2 | 7.9 | 6.6 | -158.97 | -142.9 | -217.5 | 109.4 | 99.3 | 10.11 | 10.823 | | | |
| 2,700.0 | 2,668.2 | 2,702.8 | 2,683.0 | 8.2 | 6.9 | -158.47 | -151.0 | -230.2 | 112.5 | 101.9 | 10.57 | 10.642 | | | |
| 2,800.0 | 2,766.6 | 2,802.8 | 2,781.8 | 8.6 | 7.2 | -158.00 | -159.1 | -243.0 | 115.6 | 104.6 | 11.04 | 10.475 | | | |
| 2,900.0 | 2,865.1 | 2,902.7 | 2,880.6 | 8.9 | 7.5 | -157.56 | -167.1 | -255.7 | 118.7 | 107.2 | 11.51 | 10.318 | | | |
| 3,000.0 | 2,963.6 | 3,002.7 | 2,979.4 | 9.3 | 7.8 | -157.14 | -175.2 | -268.5 | 121.9 | 109.9 | 11.98 | 10.173 | | | |
| 3,100.0 | 3,062.0 | 3,102.6 | 3,078.2 | 9.7 | 8.2 | -156.74 | -183.3 | -281.2 | 125.0 | 112.5 | 12.45 | 10.037 | | | |
| 3,200.0 | 3,160.5 | 3,202.5 | 3,177.0 | 10.0 | 8.5 | -156.36 | -191.3 | -294.0 | 128.1 | 115.2 | 12.93 | 9.909 | | | |
| 3,300.0 | 3,258.9 | 3,302.5 | 3,275.8 | 10.4 | 8.8 | -156.00 | -199.4 | -306.8 | 131.3 | 117.9 | 13.41 | 9.790 | | | |
| 3,400.0 | 3,357.4 | 3,402.4 | 3,374.6 | 10.7 | 9.1 | -155.65 | -207.5 | -319.5 | 134.4 | 120.6 | 13.89 | 9.677 | | | |
| 3,500.0 | 3,455.9 | 3,502.4 | 3,473.4 | 11.1 | 9.4 | -155.33 | -215.6 | -332.3 | 137.6 | 123.2 | 14.38 | 9.572 | | | |
| 3,600.0 | 3,554.3 | 3,602.3 | 3,572.2 | 11.4 | 9.7 | -155.01 | -223.6 | -345.0 | 140.8 | 125.9 | 14.86 | 9.472 | | | |
| 3,700.0 | 3,652.8 | 3,702.3 | 3,671.0 | 11.8 | 10.1 | -154.71 | -231.7 | -357.8 | 143.9 | 128.6 | 15.35 | 9.378 | | | |
| 3,800.0 | 3,751.2 | 3,802.2 | 3,769.8 | 12.1 | 10.4 | -154.42 | -239.8 | -370.5 | 147.1 | 131.3 | 15.84 | 9.289 | | | |
| 3,900.0 | 3,849.7 | 3,902.2 | 3,868.6 | 12.5 | 10.7 | -154.15 | -247.9 | -383.3 | 150.3 | 133.9 | 16.32 | 9.205 | | | |
| 4,000.0 | 3,948.2 | 4,002.1 | 3,967.4 | 12.8 | 11.0 | -153.88 | -255.9 | -396.1 | 153.4 | 136.6 | 16.82 | 9.125 | | | |
| 4,100.0 | 4,046.6 | 4,102.1 | 4,066.2 | 13.2 | 11.3 | -153.63 | -264.0 | -408.8 | 156.6 | 139.3 | 17.31 | 9.049 | | | |
| 4,200.0 | 4,145.1 | 4,202.0 | 4,165.0 | 13.5 | 11.6 | -153.39 | -272.1 | -421.6 | 159.8 | 142.0 | 17.80 | 8.977 | | | |
| 4,300.0 | 4,243.5 | 4,302.0 | 4,263.8 | 13.9 | 12.0 | -153.15 | -280.1 | -434.3 | 163.0 | 144.7 | 18.30 | 8.909 | | | |
| 4,400.0 | 4,342.0 | 4,401.9 | 4,362.6 | 14.3 | 12.3 | -152.93 | -288.2 | -447.1 | 166.2 | 147.4 | 18.79 | 8.844 | | | |
| 4,500.0 | 4,440.4 | 4,501.9 | 4,461.4 | 14.6 | 12.6 | -152.71 | -296.3 | -459.9 | 169.4 | 150.1 | 19.29 | 8.782 | | | |
| 4,600.0 | 4,538.9 | 4,601.8 | 4,560.2 | 15.0 | 12.9 | -152.51 | -304.4 | -472.6 | 172.6 | 152.8 | 19.78 | 8.722 | | | |
| 4,700.0 | 4,637.4 | 4,701.8 | 4,659.0 | 15.3 | 13.2 | -152.31 | -312.4 | -485.4 | 175.8 | 155.5 | 20.28 | 8.666 | | | |
| 4,800.0 | 4,735.8 | 4,801.7 | 4,757.8 | 15.7 | 13.5 | -152.11 | -320.5 | -498.1 | 179.0 | 158.2 | 20.78 | 8.612 | | | |
| 4,900.0 | 4,834.3 | 4,901.6 | 4,856.6 | 16.0 | 13.9 | -151.93 | -328.6 | -510.9 | 182.2 | 160.9 | 21.28 | 8.560 | | | |
| 5,000.0 | 4,932.7 | 5,001.6 | 4,955.4 | 16.4 | 14.2 | -151.75 | -336.7 | -523.6 | 185.4 | 163.6 | 21.78 | 8.510 | | | |
| 5,100.0 | 5,031.2 | 5,101.5 | 5,054.2 | 16.7 | 14.5 | -151.57 | -344.7 | -536.4 | 188.6 | 166.3 | 22.28 | 8.462 | | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3C-9H-N267 - 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 | | |
| 5,200.0 | 5,129.7 | 5,201.5 | 5,153.0 | 17.1 | 14.8 | -151.40 | -352.8 | -549.2 | 191.8 | 169.0 | 22.78 | 8.417 | |
| 5,300.0 | 5,228.1 | 5,301.4 | 5,251.8 | 17.4 | 15.1 | -151.24 | -360.9 | -561.9 | 195.0 | 171.7 | 23.29 | 8.373 | |
| 5,400.0 | 5,326.6 | 5,401.4 | 5,350.6 | 17.8 | 15.4 | -151.08 | -368.9 | -574.7 | 198.2 | 174.4 | 23.79 | 8.331 | |
| 5,500.0 | 5,425.0 | 5,501.3 | 5,449.4 | 18.2 | 15.8 | -150.93 | -377.0 | -587.4 | 201.4 | 177.1 | 24.29 | 8.290 | |
| 5,600.0 | 5,523.5 | 5,601.3 | 5,548.2 | 18.5 | 16.1 | -150.78 | -385.1 | -600.2 | 204.6 | 179.8 | 24.80 | 8.251 | |
| 5,700.0 | 5,622.0 | 5,701.2 | 5,647.0 | 18.9 | 16.4 | -150.64 | -393.2 | -612.9 | 207.8 | 182.5 | 25.30 | 8.214 | |
| 5,800.0 | 5,720.4 | 5,801.2 | 5,745.8 | 19.2 | 16.7 | -150.50 | -401.2 | -625.7 | 211.0 | 185.2 | 25.80 | 8.177 | |
| 5,900.0 | 5,818.9 | 5,901.1 | 5,844.6 | 19.6 | 17.0 | -150.37 | -409.3 | -638.5 | 214.2 | 187.9 | 26.31 | 8.142 | |
| 6,000.0 | 5,917.3 | 6,001.1 | 5,943.4 | 19.9 | 17.3 | -150.24 | -417.4 | -651.2 | 217.4 | 190.6 | 26.82 | 8.109 | |
| 6,100.0 | 6,015.8 | 6,101.0 | 6,042.2 | 20.3 | 17.7 | -150.11 | -425.5 | -664.0 | 220.7 | 193.3 | 27.32 | 8.076 | |
| 6,200.0 | 6,114.2 | 6,201.0 | 6,141.0 | 20.6 | 18.0 | -149.99 | -433.5 | -676.7 | 223.9 | 196.0 | 27.83 | 8.045 | |
| 6,300.0 | 6,212.7 | 6,300.9 | 6,239.8 | 21.0 | 18.3 | -149.87 | -441.6 | -689.5 | 227.1 | 198.8 | 28.34 | 8.015 | |
| 6,400.0 | 6,311.2 | 6,400.9 | 6,338.6 | 21.3 | 18.6 | -149.75 | -449.7 | -702.3 | 230.3 | 201.5 | 28.84 | 7.985 | |
| 6,500.0 | 6,409.6 | 6,500.8 | 6,437.4 | 21.7 | 18.9 | -149.64 | -457.7 | -715.0 | 233.5 | 204.2 | 29.35 | 7.957 | |
| 6,600.0 | 6,508.1 | 6,600.7 | 6,536.2 | 22.1 | 19.2 | -149.53 | -465.8 | -727.8 | 236.8 | 206.9 | 29.86 | 7.929 | |
| 6,700.0 | 6,606.5 | 6,700.7 | 6,635.0 | 22.4 | 19.6 | -149.42 | -473.9 | -740.5 | 240.0 | 209.6 | 30.37 | 7.903 | |
| 6,800.0 | 6,705.0 | 6,802.6 | 6,735.8 | 22.8 | 19.9 | -149.70 | -480.5 | -753.5 | 243.0 | 212.3 | 30.72 | 7.912 | |
| 6,900.0 | 6,803.5 | 6,904.5 | 6,836.4 | 23.1 | 20.0 | -153.47 | -472.0 | -766.5 | 245.1 | 215.3 | 29.74 | 8.242 | |
| 7,000.0 | 6,901.9 | 6,998.1 | 6,926.2 | 23.5 | 20.1 | -160.44 | -448.4 | -778.1 | 249.1 | 221.4 | 27.73 | 8.984 | |
| 7,100.0 | 7,000.5 | 7,082.6 | 7,002.9 | 23.8 | 20.0 | 144.47 | -414.8 | -788.0 | 259.4 | 233.6 | 25.78 | 10.060 | |
| 7,200.0 | 7,098.0 | 7,162.8 | 7,070.6 | 24.0 | 20.0 | 102.94 | -372.7 | -796.8 | 274.6 | 249.6 | 25.04 | 10.968 | |
| 7,300.0 | 7,191.3 | 7,239.9 | 7,129.4 | 24.1 | 19.9 | 83.99 | -323.6 | -804.4 | 292.5 | 267.3 | 25.20 | 11.610 | |
| 7,400.0 | 7,277.8 | 7,314.5 | 7,179.7 | 24.1 | 19.8 | 72.96 | -268.9 | -810.9 | 311.1 | 285.5 | 25.55 | 12.177 | |
| 7,500.0 | 7,354.6 | 7,387.2 | 7,221.6 | 24.1 | 19.7 | 65.64 | -209.7 | -816.3 | 328.8 | 303.2 | 25.59 | 12.845 | |
| 7,600.0 | 7,419.6 | 7,458.6 | 7,255.0 | 24.0 | 19.7 | 60.57 | -146.9 | -820.6 | 344.3 | 319.1 | 25.20 | 13.663 | |
| 7,700.0 | 7,470.7 | 7,528.9 | 7,280.2 | 24.0 | 19.7 | 57.09 | -81.4 | -823.8 | 357.0 | 332.5 | 24.50 | 14.572 | |
| 7,800.0 | 7,506.4 | 7,600.0 | 7,297.4 | 24.1 | 19.8 | 54.83 | -12.5 | -826.1 | 366.1 | 342.4 | 23.71 | 15.437 | |
| 7,900.0 | 7,525.7 | 7,667.6 | 7,305.8 | 24.2 | 19.9 | 53.66 | 54.6 | -827.1 | 371.3 | 348.1 | 23.19 | 16.010 | |
| 8,000.0 | 7,529.0 | 7,750.5 | 7,307.0 | 24.5 | 20.2 | 53.61 | 137.4 | -827.3 | 372.5 | 349.0 | 23.46 | 15.873 | |
| 8,100.0 | 7,529.0 | 7,850.5 | 7,307.0 | 24.8 | 20.6 | 53.41 | 237.4 | -827.3 | 372.5 | 347.9 | 24.55 | 15.172 | |
| 8,200.0 | 7,529.0 | 7,950.5 | 7,307.0 | 25.3 | 21.1 | 53.41 | 337.4 | -827.3 | 372.5 | 346.6 | 25.90 | 14.382 | |
| 8,300.0 | 7,529.0 | 8,050.5 | 7,307.0 | 25.9 | 21.8 | 53.41 | 437.4 | -827.3 | 372.5 | 345.0 | 27.47 | 13.559 | |
| 8,400.0 | 7,529.0 | 8,150.5 | 7,307.0 | 26.5 | 22.6 | 53.41 | 537.4 | -827.3 | 372.5 | 343.2 | 29.23 | 12.741 | |
| 8,500.0 | 7,529.0 | 8,250.5 | 7,307.0 | 27.3 | 23.5 | 53.41 | 637.4 | -827.3 | 372.4 | 341.3 | 31.15 | 11.956 | |
| 8,600.0 | 7,529.0 | 8,350.5 | 7,307.0 | 28.2 | 24.5 | 53.41 | 737.4 | -827.3 | 372.4 | 339.2 | 33.20 | 11.218 | |
| 8,700.0 | 7,529.0 | 8,450.5 | 7,307.0 | 29.1 | 25.6 | 53.41 | 837.4 | -827.3 | 372.4 | 337.1 | 35.36 | 10.534 | |
| 8,800.0 | 7,529.0 | 8,550.5 | 7,307.0 | 30.1 | 26.8 | 53.41 | 937.4 | -827.3 | 372.4 | 334.8 | 37.60 | 9.904 | |
| 8,900.0 | 7,529.0 | 8,650.5 | 7,307.0 | 31.2 | 28.0 | 53.41 | 1,037.4 | -827.3 | 372.4 | 332.5 | 39.92 | 9.329 | |
| 9,000.0 | 7,529.0 | 8,750.5 | 7,307.0 | 32.4 | 29.3 | 53.41 | 1,137.4 | -827.3 | 372.4 | 330.1 | 42.31 | 8.804 | |
| 9,100.0 | 7,529.0 | 8,850.5 | 7,307.0 | 33.6 | 30.6 | 53.41 | 1,237.4 | -827.3 | 372.4 | 327.7 | 44.74 | 8.325 | |
| 9,200.0 | 7,529.0 | 8,950.5 | 7,307.0 | 34.8 | 31.9 | 53.41 | 1,337.4 | -827.3 | 372.4 | 325.2 | 47.22 | 7.888 | |
| 9,300.0 | 7,529.0 | 9,050.5 | 7,307.0 | 36.1 | 33.3 | 53.41 | 1,437.4 | -827.3 | 372.4 | 322.7 | 49.73 | 7.489 | |
| 9,400.0 | 7,529.0 | 9,150.5 | 7,307.0 | 37.4 | 34.8 | 53.41 | 1,537.4 | -827.3 | 372.4 | 320.2 | 52.28 | 7.124 | |
| 9,500.0 | 7,529.0 | 9,250.5 | 7,307.0 | 38.8 | 36.2 | 53.41 | 1,637.4 | -827.3 | 372.4 | 317.6 | 54.85 | 6.790 | |
| 9,600.0 | 7,529.0 | 9,350.5 | 7,307.0 | 40.2 | 37.7 | 53.41 | 1,737.4 | -827.3 | 372.4 | 315.0 | 57.45 | 6.483 | |
| 9,700.0 | 7,529.0 | 9,450.5 | 7,307.0 | 41.6 | 39.2 | 53.41 | 1,837.4 | -827.3 | 372.4 | 312.4 | 60.07 | 6.201 | |
| 9,800.0 | 7,529.0 | 9,550.5 | 7,307.0 | 43.0 | 40.8 | 53.41 | 1,937.4 | -827.3 | 372.4 | 309.7 | 62.70 | 5.940 | |
| 9,900.0 | 7,529.0 | 9,650.5 | 7,307.0 | 44.5 | 42.3 | 53.41 | 2,037.4 | -827.3 | 372.4 | 307.1 | 65.36 | 5.699 | |
| 10,000.0 | 7,529.0 | 9,750.5 | 7,307.0 | 46.0 | 43.9 | 53.41 | 2,137.4 | -827.3 | 372.4 | 304.4 | 68.02 | 5.475 | |
| 10,100.0 | 7,529.0 | 9,850.5 | 7,307.0 | 47.5 | 45.4 | 53.41 | 2,237.4 | -827.3 | 372.4 | 301.7 | 70.70 | 5.268 | |
| 10,200.0 | 7,529.0 | 9,950.5 | 7,307.0 | 49.0 | 47.0 | 53.41 | 2,337.4 | -827.3 | 372.4 | 299.1 | 73.39 | 5.075 | |
| 10,300.0 | 7,529.0 | 10,050.5 | 7,307.0 | 50.5 | 48.6 | 53.41 | 2,437.4 | -827.3 | 372.4 | 296.4 | 76.09 | 4.895 | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3C-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|------------------------|------------------------|------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning |
| 10,400.0 | 7,529.0 | 10,150.5 | 7,307.0 | 52.1 | 50.2 | 53.41 | 2,537.4 | -827.3 | 372.4 | 293.7 | 78.80 | 4.727 | |
| 10,500.0 | 7,529.0 | 10,250.5 | 7,307.0 | 53.7 | 51.8 | 53.41 | 2,637.4 | -827.3 | 372.4 | 290.9 | 81.52 | 4.569 | |
| 10,600.0 | 7,529.0 | 10,350.5 | 7,307.0 | 55.2 | 53.5 | 53.41 | 2,737.4 | -827.3 | 372.4 | 288.2 | 84.24 | 4.421 | |
| 10,700.0 | 7,529.0 | 10,450.5 | 7,307.0 | 56.8 | 55.1 | 53.41 | 2,837.4 | -827.3 | 372.4 | 285.5 | 86.97 | 4.282 | |
| 10,800.0 | 7,529.0 | 10,550.5 | 7,307.0 | 58.4 | 56.8 | 53.41 | 2,937.4 | -827.3 | 372.4 | 282.7 | 89.71 | 4.152 | |
| 10,900.0 | 7,529.0 | 10,650.5 | 7,307.0 | 60.0 | 58.4 | 53.41 | 3,037.4 | -827.3 | 372.4 | 280.0 | 92.45 | 4.029 | |
| 11,000.0 | 7,529.0 | 10,750.5 | 7,307.0 | 61.6 | 60.1 | 53.41 | 3,137.4 | -827.3 | 372.4 | 277.3 | 95.19 | 3.912 | |
| 11,100.0 | 7,529.0 | 10,850.5 | 7,307.0 | 63.2 | 61.7 | 53.41 | 3,237.4 | -827.3 | 372.4 | 274.5 | 97.95 | 3.803 | |
| 11,200.0 | 7,529.0 | 10,950.5 | 7,307.0 | 64.9 | 63.4 | 53.41 | 3,337.4 | -827.3 | 372.4 | 271.7 | 100.70 | 3.699 | |
| 11,300.0 | 7,529.0 | 11,050.5 | 7,307.0 | 66.5 | 65.0 | 53.41 | 3,437.4 | -827.3 | 372.4 | 269.0 | 103.46 | 3.600 | |
| 11,400.0 | 7,529.0 | 11,150.5 | 7,307.0 | 68.1 | 66.7 | 53.41 | 3,537.4 | -827.3 | 372.4 | 266.2 | 106.22 | 3.506 | |
| 11,500.0 | 7,529.0 | 11,250.5 | 7,307.0 | 69.8 | 68.4 | 53.41 | 3,637.4 | -827.3 | 372.4 | 263.5 | 108.99 | 3.417 | |
| 11,600.0 | 7,529.0 | 11,350.5 | 7,307.0 | 71.4 | 70.1 | 53.41 | 3,737.4 | -827.3 | 372.4 | 260.7 | 111.76 | 3.333 | |
| 11,700.0 | 7,529.0 | 11,450.5 | 7,307.0 | 73.1 | 71.8 | 53.41 | 3,837.4 | -827.3 | 372.4 | 257.9 | 114.53 | 3.252 | |
| 11,800.0 | 7,529.0 | 11,550.5 | 7,307.0 | 74.8 | 73.5 | 53.41 | 3,937.4 | -827.3 | 372.4 | 255.1 | 117.30 | 3.175 | |
| 11,900.0 | 7,529.0 | 11,650.5 | 7,307.0 | 76.4 | 75.1 | 53.41 | 4,037.4 | -827.3 | 372.4 | 252.4 | 120.08 | 3.102 | |
| 12,000.0 | 7,529.0 | 11,750.5 | 7,307.0 | 78.1 | 76.8 | 53.41 | 4,137.4 | -827.3 | 372.4 | 249.6 | 122.86 | 3.031 | |
| 12,100.0 | 7,529.0 | 11,850.5 | 7,307.0 | 79.8 | 78.5 | 53.41 | 4,237.4 | -827.3 | 372.4 | 246.8 | 125.64 | 2.964 | |
| 12,200.0 | 7,529.0 | 11,950.5 | 7,307.0 | 81.4 | 80.2 | 53.41 | 4,337.4 | -827.3 | 372.4 | 244.0 | 128.43 | 2.900 | |
| 12,300.0 | 7,529.0 | 12,050.5 | 7,307.0 | 83.1 | 81.9 | 53.41 | 4,437.4 | -827.3 | 372.4 | 241.2 | 131.21 | 2.839 | |
| 12,400.0 | 7,529.0 | 12,150.5 | 7,307.0 | 84.8 | 83.6 | 53.41 | 4,537.4 | -827.3 | 372.4 | 238.5 | 134.00 | 2.780 | |
| 12,500.0 | 7,529.0 | 12,250.5 | 7,307.0 | 86.5 | 85.3 | 53.41 | 4,637.4 | -827.3 | 372.4 | 235.7 | 136.79 | 2.723 | |
| 12,600.0 | 7,529.0 | 12,350.5 | 7,307.0 | 88.2 | 87.1 | 53.41 | 4,737.4 | -827.3 | 372.4 | 232.9 | 139.58 | 2.668 | |
| 12,700.0 | 7,529.0 | 12,450.5 | 7,307.0 | 89.9 | 88.8 | 53.41 | 4,837.4 | -827.3 | 372.4 | 230.1 | 142.37 | 2.616 | |
| 12,800.0 | 7,529.0 | 12,550.5 | 7,307.0 | 91.5 | 90.5 | 53.41 | 4,937.4 | -827.3 | 372.4 | 227.3 | 145.16 | 2.566 | |
| 12,900.0 | 7,529.0 | 12,650.5 | 7,307.0 | 93.2 | 92.2 | 53.41 | 5,037.4 | -827.3 | 372.4 | 224.5 | 147.95 | 2.517 | |
| 13,000.0 | 7,529.0 | 12,750.5 | 7,307.0 | 94.9 | 93.9 | 53.41 | 5,137.4 | -827.3 | 372.4 | 221.7 | 150.75 | 2.471 | |
| 13,067.3 | 7,529.0 | 12,817.7 | 7,307.0 | 96.1 | 95.1 | 53.41 | 5,204.7 | -827.3 | 372.4 | 219.8 | 152.63 | 2.440 | |
| 13,097.3 | 7,529.0 | 12,840.5 | 7,307.0 | 96.6 | 95.4 | 53.41 | 5,227.5 | -827.3 | 372.5 | 219.2 | 153.37 | 2.429 SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3D-9H-N267 - 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 | 90.05 | 0.0 | 19.6 | 19.6 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.05 | 0.0 | 19.6 | 19.6 | 19.3 | 0.24 | 80.085 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.05 | 0.0 | 19.6 | 19.6 | 19.0 | 0.59 | 32.976 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.05 | 0.0 | 19.6 | 19.6 | 18.6 | 0.94 | 20.763 | CC, ES | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -157.27 | 0.0 | 19.6 | 21.2 | 19.9 | 1.29 | 16.389 | | |
| 500.0 | 499.8 | 499.8 | 499.8 | 0.8 | 0.8 | -161.69 | 0.0 | 19.6 | 26.1 | 24.4 | 1.64 | 15.895 | | |
| 600.0 | 599.5 | 600.0 | 600.0 | 1.1 | 1.0 | -165.74 | -0.5 | 18.8 | 33.6 | 31.6 | 1.99 | 16.916 | | |
| 700.0 | 698.7 | 700.2 | 700.1 | 1.3 | 1.2 | -168.55 | -1.8 | 16.5 | 43.1 | 40.7 | 2.34 | 18.436 | | |
| 800.0 | 797.5 | 800.4 | 800.2 | 1.6 | 1.4 | -170.48 | -4.0 | 12.8 | 54.3 | 51.6 | 2.68 | 20.251 | | |
| 900.0 | 895.9 | 900.7 | 900.4 | 2.0 | 1.6 | -171.65 | -7.0 | 7.4 | 65.7 | 62.7 | 3.03 | 21.660 | | |
| 1,000.0 | 994.4 | 1,001.4 | 1,000.8 | 2.3 | 1.8 | -172.18 | -11.0 | 0.6 | 75.4 | 72.0 | 3.39 | 22.263 | | |
| 1,100.0 | 1,092.8 | 1,102.5 | 1,101.4 | 2.6 | 2.0 | -172.31 | -15.8 | -7.8 | 83.4 | 79.7 | 3.75 | 22.280 | | |
| 1,200.0 | 1,191.3 | 1,203.8 | 1,202.0 | 3.0 | 2.2 | -172.17 | -21.6 | -17.8 | 89.8 | 85.6 | 4.11 | 21.858 | | |
| 1,300.0 | 1,289.8 | 1,305.2 | 1,302.5 | 3.3 | 2.5 | -171.80 | -28.3 | -29.3 | 94.3 | 89.9 | 4.47 | 21.099 | | |
| 1,400.0 | 1,388.2 | 1,405.1 | 1,401.5 | 3.7 | 2.8 | -171.35 | -35.2 | -41.4 | 98.2 | 93.3 | 4.84 | 20.294 | | |
| 1,500.0 | 1,486.7 | 1,505.0 | 1,500.4 | 4.0 | 3.0 | -170.94 | -42.2 | -53.4 | 102.0 | 96.8 | 5.21 | 19.596 | | |
| 1,600.0 | 1,585.1 | 1,604.9 | 1,599.4 | 4.4 | 3.3 | -170.56 | -49.1 | -65.5 | 105.8 | 100.3 | 5.58 | 18.983 | | |
| 1,700.0 | 1,683.6 | 1,704.9 | 1,698.3 | 4.7 | 3.6 | -170.20 | -56.1 | -77.5 | 109.7 | 103.7 | 5.95 | 18.442 | | |
| 1,800.0 | 1,782.1 | 1,804.8 | 1,797.3 | 5.1 | 3.9 | -169.87 | -63.0 | -89.6 | 113.5 | 107.2 | 6.32 | 17.960 | | |
| 1,900.0 | 1,880.5 | 1,904.7 | 1,896.2 | 5.4 | 4.2 | -169.56 | -70.0 | -101.6 | 117.4 | 110.7 | 6.70 | 17.527 | | |
| 2,000.0 | 1,979.0 | 2,004.6 | 1,995.2 | 5.8 | 4.5 | -169.27 | -76.9 | -113.6 | 121.2 | 114.2 | 7.07 | 17.138 | | |
| 2,100.0 | 2,077.4 | 2,104.6 | 2,094.1 | 6.1 | 4.7 | -169.00 | -83.9 | -125.7 | 125.1 | 117.6 | 7.45 | 16.785 | | |
| 2,200.0 | 2,175.9 | 2,204.5 | 2,193.1 | 6.5 | 5.0 | -168.75 | -90.8 | -137.7 | 128.9 | 121.1 | 7.83 | 16.463 | | |
| 2,300.0 | 2,274.3 | 2,304.4 | 2,292.0 | 6.8 | 5.3 | -168.51 | -97.8 | -149.8 | 132.8 | 124.6 | 8.21 | 16.169 | | |
| 2,400.0 | 2,372.8 | 2,404.3 | 2,391.0 | 7.2 | 5.6 | -168.28 | -104.7 | -161.8 | 136.7 | 128.1 | 8.60 | 15.899 | | |
| 2,500.0 | 2,471.3 | 2,504.3 | 2,489.9 | 7.5 | 5.9 | -168.06 | -111.7 | -173.9 | 140.5 | 131.5 | 8.98 | 15.651 | | |
| 2,600.0 | 2,569.7 | 2,604.2 | 2,588.9 | 7.9 | 6.2 | -167.86 | -118.7 | -185.9 | 144.4 | 135.0 | 9.36 | 15.421 | | |
| 2,700.0 | 2,668.2 | 2,704.1 | 2,687.8 | 8.2 | 6.5 | -167.67 | -125.6 | -198.0 | 148.3 | 138.5 | 9.75 | 15.208 | | |
| 2,800.0 | 2,766.6 | 2,804.0 | 2,786.8 | 8.6 | 6.8 | -167.49 | -132.6 | -210.0 | 152.1 | 142.0 | 10.13 | 15.010 | | |
| 2,900.0 | 2,865.1 | 2,904.0 | 2,885.8 | 8.9 | 7.1 | -167.31 | -139.5 | -222.0 | 156.0 | 145.5 | 10.52 | 14.826 | | |
| 3,000.0 | 2,963.6 | 3,003.9 | 2,984.7 | 9.3 | 7.4 | -167.15 | -146.5 | -234.1 | 159.9 | 149.0 | 10.91 | 14.653 | | |
| 3,100.0 | 3,062.0 | 3,103.8 | 3,083.7 | 9.7 | 7.7 | -166.99 | -153.4 | -246.1 | 163.7 | 152.4 | 11.30 | 14.492 | | |
| 3,200.0 | 3,160.5 | 3,203.7 | 3,182.6 | 10.0 | 8.0 | -166.84 | -160.4 | -258.2 | 167.6 | 155.9 | 11.69 | 14.341 | | |
| 3,300.0 | 3,258.9 | 3,303.7 | 3,281.6 | 10.4 | 8.3 | -166.69 | -167.3 | -270.2 | 171.5 | 159.4 | 12.08 | 14.198 | | |
| 3,400.0 | 3,357.4 | 3,403.6 | 3,380.5 | 10.7 | 8.6 | -166.56 | -174.3 | -282.3 | 175.4 | 162.9 | 12.47 | 14.064 | | |
| 3,500.0 | 3,455.9 | 3,503.5 | 3,479.5 | 11.1 | 8.9 | -166.43 | -181.2 | -294.3 | 179.2 | 166.4 | 12.86 | 13.938 | | |
| 3,600.0 | 3,554.3 | 3,603.4 | 3,578.4 | 11.4 | 9.2 | -166.30 | -188.2 | -306.3 | 183.1 | 169.9 | 13.25 | 13.818 | | |
| 3,700.0 | 3,652.8 | 3,703.4 | 3,677.4 | 11.8 | 9.5 | -166.18 | -195.1 | -318.4 | 187.0 | 173.4 | 13.64 | 13.705 | | |
| 3,800.0 | 3,751.2 | 3,803.3 | 3,776.3 | 12.1 | 9.8 | -166.07 | -202.1 | -330.4 | 190.9 | 176.8 | 14.04 | 13.598 | | |
| 3,900.0 | 3,849.7 | 3,903.2 | 3,875.3 | 12.5 | 10.1 | -165.95 | -209.0 | -342.5 | 194.8 | 180.3 | 14.43 | 13.496 | | |
| 4,000.0 | 3,948.2 | 4,003.1 | 3,974.2 | 12.8 | 10.4 | -165.85 | -216.0 | -354.5 | 198.6 | 183.8 | 14.82 | 13.399 | | |
| 4,100.0 | 4,046.6 | 4,103.0 | 4,073.2 | 13.2 | 10.7 | -165.75 | -223.0 | -366.6 | 202.5 | 187.3 | 15.22 | 13.307 | | |
| 4,200.0 | 4,145.1 | 4,203.0 | 4,172.1 | 13.5 | 11.0 | -165.65 | -229.9 | -378.6 | 206.4 | 190.8 | 15.61 | 13.220 | | |
| 4,300.0 | 4,243.5 | 4,302.9 | 4,271.1 | 13.9 | 11.3 | -165.55 | -236.9 | -390.7 | 210.3 | 194.3 | 16.01 | 13.136 | | |
| 4,400.0 | 4,342.0 | 4,402.8 | 4,370.0 | 14.3 | 11.6 | -165.46 | -243.8 | -402.7 | 214.2 | 197.8 | 16.40 | 13.056 | | |
| 4,500.0 | 4,440.4 | 4,502.7 | 4,469.0 | 14.6 | 11.9 | -165.37 | -250.8 | -414.7 | 218.1 | 201.3 | 16.80 | 12.980 | | |
| 4,600.0 | 4,538.9 | 4,602.7 | 4,567.9 | 15.0 | 12.2 | -165.29 | -257.7 | -426.8 | 221.9 | 204.7 | 17.20 | 12.907 | | |
| 4,700.0 | 4,637.4 | 4,702.6 | 4,666.9 | 15.3 | 12.5 | -165.20 | -264.7 | -438.8 | 225.8 | 208.2 | 17.59 | 12.837 | | |
| 4,800.0 | 4,735.8 | 4,802.5 | 4,765.8 | 15.7 | 12.8 | -165.12 | -271.6 | -450.9 | 229.7 | 211.7 | 17.99 | 12.769 | | |
| 4,900.0 | 4,834.3 | 4,902.4 | 4,864.8 | 16.0 | 13.1 | -165.05 | -278.6 | -462.9 | 233.6 | 215.2 | 18.39 | 12.705 | | |
| 5,000.0 | 4,932.7 | 5,002.4 | 4,963.7 | 16.4 | 13.4 | -164.97 | -285.5 | -475.0 | 237.5 | 218.7 | 18.78 | 12.643 | | |
| 5,100.0 | 5,031.2 | 5,102.3 | 5,062.7 | 16.7 | 13.7 | -164.90 | -292.5 | -487.0 | 241.4 | 222.2 | 19.18 | 12.584 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3D-9H-N267 - 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 | 5,129.7 | 5,202.2 | 5,161.6 | 17.1 | 14.0 | -164.83 | -299.4 | -499.0 | 245.3 | 225.7 | 19.58 | 12.527 | | |
| 5,300.0 | 5,228.1 | 5,302.1 | 5,260.6 | 17.4 | 14.3 | -164.76 | -306.4 | -511.1 | 249.1 | 229.2 | 19.98 | 12.472 | | |
| 5,400.0 | 5,326.6 | 5,402.1 | 5,359.5 | 17.8 | 14.6 | -164.70 | -313.3 | -523.1 | 253.0 | 232.7 | 20.38 | 12.419 | | |
| 5,500.0 | 5,425.0 | 5,502.0 | 5,458.5 | 18.2 | 14.9 | -164.64 | -320.3 | -535.2 | 256.9 | 236.2 | 20.77 | 12.368 | | |
| 5,600.0 | 5,523.5 | 5,601.9 | 5,557.4 | 18.5 | 15.2 | -164.57 | -327.3 | -547.2 | 260.8 | 239.6 | 21.17 | 12.319 | | |
| 5,700.0 | 5,622.0 | 5,701.8 | 5,656.4 | 18.9 | 15.5 | -164.51 | -334.2 | -559.3 | 264.7 | 243.1 | 21.57 | 12.271 | | |
| 5,800.0 | 5,720.4 | 5,800.0 | 5,753.6 | 19.2 | 15.7 | -164.46 | -341.0 | -571.1 | 268.6 | 246.6 | 21.97 | 12.228 | | |
| 5,900.0 | 5,818.9 | 5,897.3 | 5,850.1 | 19.6 | 16.0 | -164.46 | -347.4 | -582.1 | 273.3 | 250.9 | 22.34 | 12.231 | | |
| 6,000.0 | 5,917.3 | 5,992.8 | 5,945.0 | 19.9 | 16.3 | -164.59 | -352.8 | -591.5 | 279.5 | 256.8 | 22.69 | 12.319 | | |
| 6,100.0 | 6,015.8 | 6,088.1 | 6,039.8 | 20.3 | 16.5 | -164.82 | -357.5 | -599.6 | 287.4 | 264.3 | 23.01 | 12.486 | | |
| 6,200.0 | 6,114.2 | 6,183.1 | 6,134.5 | 20.6 | 16.7 | -165.14 | -361.3 | -606.3 | 296.7 | 273.4 | 23.31 | 12.728 | | |
| 6,300.0 | 6,212.7 | 6,277.8 | 6,229.0 | 21.0 | 16.9 | -165.55 | -364.4 | -611.5 | 307.6 | 284.1 | 23.59 | 13.041 | | |
| 6,400.0 | 6,311.2 | 6,372.1 | 6,323.2 | 21.3 | 17.0 | -166.01 | -366.7 | -615.5 | 320.1 | 296.3 | 23.85 | 13.421 | | |
| 6,500.0 | 6,409.6 | 6,466.0 | 6,417.0 | 21.7 | 17.1 | -166.53 | -368.1 | -618.0 | 334.2 | 310.1 | 24.10 | 13.866 | | |
| 6,600.0 | 6,508.1 | 6,559.4 | 6,510.4 | 22.1 | 17.3 | -167.09 | -368.8 | -619.3 | 349.8 | 325.5 | 24.34 | 14.370 | | |
| 6,700.0 | 6,606.5 | 6,655.5 | 6,606.5 | 22.4 | 17.4 | -167.68 | -368.9 | -619.4 | 366.7 | 342.2 | 24.58 | 14.919 | | |
| 6,800.0 | 6,705.0 | 6,754.0 | 6,705.0 | 22.8 | 17.5 | -168.24 | -368.9 | -619.4 | 383.8 | 359.0 | 24.83 | 15.457 | | |
| 6,900.0 | 6,803.5 | 6,852.4 | 6,803.5 | 23.1 | 17.6 | -168.74 | -368.9 | -619.4 | 401.0 | 375.9 | 25.09 | 15.979 | | |
| 7,000.0 | 6,901.9 | 6,950.9 | 6,901.9 | 23.5 | 17.7 | -169.21 | -368.9 | -619.4 | 418.2 | 392.8 | 25.37 | 16.486 | | |
| 7,100.0 | 7,000.5 | 7,042.4 | 6,993.4 | 23.8 | 17.8 | 143.16 | -367.7 | -619.4 | 434.4 | 408.9 | 25.50 | 17.036 | | |
| 7,200.0 | 7,098.0 | 7,125.3 | 7,075.5 | 24.0 | 17.8 | 108.58 | -356.3 | -619.2 | 449.5 | 423.9 | 25.60 | 17.558 | | |
| 7,300.0 | 7,191.3 | 7,208.6 | 7,155.4 | 24.1 | 17.8 | 95.76 | -333.1 | -619.0 | 463.4 | 437.7 | 25.69 | 18.038 | | |
| 7,400.0 | 7,277.8 | 7,292.7 | 7,231.8 | 24.1 | 17.7 | 90.01 | -298.2 | -618.6 | 476.0 | 450.2 | 25.79 | 18.458 | | |
| 7,500.0 | 7,354.6 | 7,377.8 | 7,303.1 | 24.1 | 17.5 | 87.20 | -251.9 | -618.0 | 486.9 | 461.0 | 25.90 | 18.799 | | |
| 7,600.0 | 7,419.6 | 7,464.4 | 7,367.7 | 24.0 | 17.4 | 85.98 | -194.4 | -617.3 | 496.1 | 470.0 | 26.06 | 19.035 | | |
| 7,700.0 | 7,470.7 | 7,552.8 | 7,424.1 | 24.0 | 17.3 | 85.82 | -126.4 | -616.5 | 503.3 | 477.0 | 26.29 | 19.141 | | |
| 7,800.0 | 7,506.4 | 7,643.4 | 7,470.3 | 24.1 | 17.4 | 86.44 | -48.6 | -615.6 | 508.5 | 481.8 | 26.65 | 19.079 | | |
| 7,900.0 | 7,525.7 | 7,736.6 | 7,504.4 | 24.2 | 17.5 | 87.74 | 38.0 | -614.6 | 511.6 | 484.4 | 27.18 | 18.821 | | |
| 8,000.0 | 7,529.0 | 7,832.8 | 7,524.5 | 24.5 | 17.8 | 89.49 | 132.0 | -613.5 | 512.9 | 484.9 | 28.01 | 18.311 | | |
| 8,100.0 | 7,529.0 | 7,932.4 | 7,529.0 | 24.8 | 18.2 | 90.00 | 231.4 | -612.4 | 514.0 | 484.8 | 29.26 | 17.569 | | |
| 8,200.0 | 7,529.0 | 8,032.4 | 7,529.0 | 25.3 | 18.9 | 90.00 | 331.4 | -611.2 | 515.2 | 484.4 | 30.83 | 16.710 | | |
| 8,300.0 | 7,529.0 | 8,132.4 | 7,529.0 | 25.9 | 19.6 | 90.00 | 431.4 | -610.0 | 516.4 | 483.7 | 32.71 | 15.789 | | |
| 8,400.0 | 7,529.0 | 8,232.4 | 7,529.0 | 26.5 | 20.5 | 90.00 | 531.4 | -608.8 | 517.5 | 482.7 | 34.83 | 14.858 | | |
| 8,500.0 | 7,529.0 | 8,332.4 | 7,529.0 | 27.3 | 21.5 | 90.00 | 631.4 | -607.7 | 518.7 | 481.5 | 37.17 | 13.955 | | |
| 8,600.0 | 7,529.0 | 8,432.4 | 7,529.0 | 28.2 | 22.6 | 90.00 | 731.3 | -606.5 | 519.9 | 480.2 | 39.68 | 13.102 | | |
| 8,700.0 | 7,529.0 | 8,532.4 | 7,529.0 | 29.1 | 23.7 | 90.00 | 831.3 | -605.3 | 521.1 | 478.7 | 42.33 | 12.309 | | |
| 8,800.0 | 7,529.0 | 8,632.4 | 7,529.0 | 30.1 | 24.9 | 90.00 | 931.3 | -604.2 | 522.2 | 477.1 | 45.10 | 11.579 | | |
| 8,900.0 | 7,529.0 | 8,732.4 | 7,529.0 | 31.2 | 26.2 | 90.00 | 1,031.3 | -603.0 | 523.4 | 475.4 | 47.97 | 10.911 | | |
| 9,000.0 | 7,529.0 | 8,832.4 | 7,529.0 | 32.4 | 27.6 | 90.00 | 1,131.3 | -601.8 | 524.6 | 473.7 | 50.91 | 10.303 | | |
| 9,100.0 | 7,529.0 | 8,932.4 | 7,529.0 | 33.6 | 29.0 | 90.00 | 1,231.3 | -600.6 | 525.7 | 471.8 | 53.93 | 9.749 | | |
| 9,200.0 | 7,529.0 | 9,032.4 | 7,529.0 | 34.8 | 30.4 | 90.00 | 1,331.3 | -599.5 | 526.9 | 469.9 | 57.00 | 9.244 | | |
| 9,300.0 | 7,529.0 | 9,132.4 | 7,529.0 | 36.1 | 31.9 | 90.00 | 1,431.2 | -598.3 | 528.1 | 468.0 | 60.12 | 8.784 | | |
| 9,400.0 | 7,529.0 | 9,232.3 | 7,529.0 | 37.4 | 33.3 | 90.00 | 1,531.2 | -597.1 | 529.3 | 466.0 | 63.28 | 8.364 | | |
| 9,500.0 | 7,529.0 | 9,332.3 | 7,529.0 | 38.8 | 34.8 | 90.00 | 1,631.2 | -596.0 | 530.4 | 464.0 | 66.47 | 7.980 | | |
| 9,600.0 | 7,529.0 | 9,432.3 | 7,529.0 | 40.2 | 36.4 | 90.00 | 1,731.2 | -594.8 | 531.6 | 461.9 | 69.70 | 7.627 | | |
| 9,700.0 | 7,529.0 | 9,532.3 | 7,529.0 | 41.6 | 37.9 | 90.00 | 1,831.2 | -593.6 | 532.8 | 459.8 | 72.95 | 7.303 | | |
| 9,800.0 | 7,529.0 | 9,632.3 | 7,529.0 | 43.0 | 39.5 | 90.00 | 1,931.2 | -592.5 | 533.9 | 457.7 | 76.22 | 7.005 | | |
| 9,900.0 | 7,529.0 | 9,732.3 | 7,529.0 | 44.5 | 41.1 | 90.00 | 2,031.2 | -591.3 | 535.1 | 455.6 | 79.51 | 6.730 | | |
| 10,000.0 | 7,529.0 | 9,832.3 | 7,529.0 | 46.0 | 42.7 | 90.00 | 2,131.1 | -590.1 | 536.3 | 453.5 | 82.82 | 6.475 | | |
| 10,100.0 | 7,529.0 | 9,932.3 | 7,529.0 | 47.5 | 44.3 | 90.00 | 2,231.1 | -588.9 | 537.4 | 451.3 | 86.15 | 6.238 | | |
| 10,200.0 | 7,529.0 | 10,032.3 | 7,529.0 | 49.0 | 45.9 | 90.00 | 2,331.1 | -587.8 | 538.6 | 449.1 | 89.49 | 6.019 | | |
| 10,300.0 | 7,529.0 | 10,132.3 | 7,529.0 | 50.5 | 47.5 | 90.00 | 2,431.1 | -586.6 | 539.8 | 446.9 | 92.85 | 5.814 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3D-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|--------------------|---------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning |
| 10,400.0 | 7,529.0 | 10,232.3 | 7,529.0 | 52.1 | 49.2 | 90.00 | 2,531.1 | -585.4 | 541.0 | 444.8 | 96.21 | 5.623 | |
| 10,500.0 | 7,529.0 | 10,332.3 | 7,529.0 | 53.7 | 50.8 | 90.00 | 2,631.1 | -584.3 | 542.1 | 442.5 | 99.58 | 5.444 | |
| 10,600.0 | 7,529.0 | 10,432.3 | 7,529.0 | 55.2 | 52.5 | 90.00 | 2,731.1 | -583.1 | 543.3 | 440.3 | 102.97 | 5.277 | |
| 10,700.0 | 7,529.0 | 10,532.3 | 7,529.0 | 56.8 | 54.1 | 90.00 | 2,831.1 | -581.9 | 544.5 | 438.1 | 106.36 | 5.119 | |
| 10,800.0 | 7,529.0 | 10,632.3 | 7,529.0 | 58.4 | 55.8 | 90.00 | 2,931.0 | -580.7 | 545.6 | 435.9 | 109.76 | 4.971 | |
| 10,900.0 | 7,529.0 | 10,732.2 | 7,529.0 | 60.0 | 57.5 | 90.00 | 3,031.0 | -579.6 | 546.8 | 433.7 | 113.16 | 4.832 | |
| 11,000.0 | 7,529.0 | 10,832.2 | 7,529.0 | 61.6 | 59.1 | 90.00 | 3,131.0 | -578.4 | 548.0 | 431.4 | 116.57 | 4.701 | |
| 11,100.0 | 7,529.0 | 10,932.2 | 7,529.0 | 63.2 | 60.8 | 90.00 | 3,231.0 | -577.2 | 549.2 | 429.2 | 119.99 | 4.577 | |
| 11,200.0 | 7,529.0 | 11,024.9 | 7,529.0 | 64.9 | 62.4 | 90.00 | 3,323.7 | -575.6 | 550.9 | 427.6 | 123.28 | 4.468 | |
| 11,300.0 | 7,529.0 | 11,116.1 | 7,529.0 | 66.5 | 63.9 | 90.00 | 3,414.8 | -572.6 | 554.2 | 427.6 | 126.56 | 4.379 | |
| 11,400.0 | 7,529.0 | 11,208.6 | 7,529.0 | 68.1 | 65.5 | 90.00 | 3,507.2 | -568.1 | 559.0 | 429.2 | 129.86 | 4.305 | |
| 11,500.0 | 7,529.0 | 11,308.5 | 7,529.0 | 69.8 | 67.1 | 90.00 | 3,606.9 | -562.7 | 564.4 | 431.1 | 133.29 | 4.235 | |
| 11,600.0 | 7,529.0 | 11,408.3 | 7,529.0 | 71.4 | 68.8 | 90.00 | 3,706.6 | -557.3 | 569.8 | 433.1 | 136.72 | 4.168 | |
| 11,700.0 | 7,529.0 | 11,508.2 | 7,529.0 | 73.1 | 70.5 | 90.00 | 3,806.3 | -551.9 | 575.2 | 435.1 | 140.16 | 4.104 | |
| 11,800.0 | 7,529.0 | 11,608.0 | 7,529.0 | 74.8 | 72.2 | 90.00 | 3,906.0 | -546.5 | 580.7 | 437.1 | 143.60 | 4.044 | |
| 11,900.0 | 7,529.0 | 11,707.9 | 7,529.0 | 76.4 | 73.9 | 90.00 | 4,005.7 | -541.1 | 586.1 | 439.0 | 147.04 | 3.986 | |
| 12,000.0 | 7,529.0 | 11,807.7 | 7,529.0 | 78.1 | 75.6 | 90.00 | 4,105.4 | -535.7 | 591.5 | 441.0 | 150.49 | 3.930 | |
| 12,100.0 | 7,529.0 | 11,907.6 | 7,529.0 | 79.8 | 77.3 | 90.00 | 4,205.1 | -530.3 | 596.9 | 442.9 | 153.94 | 3.877 | |
| 12,200.0 | 7,529.0 | 12,007.4 | 7,529.0 | 81.4 | 79.0 | 90.00 | 4,304.9 | -524.9 | 602.3 | 444.9 | 157.39 | 3.827 | |
| 12,300.0 | 7,529.0 | 12,107.3 | 7,529.0 | 83.1 | 80.7 | 90.00 | 4,404.6 | -519.5 | 607.7 | 446.9 | 160.85 | 3.778 | |
| 12,400.0 | 7,529.0 | 12,207.1 | 7,529.0 | 84.8 | 82.4 | 90.00 | 4,504.3 | -514.1 | 613.1 | 448.8 | 164.30 | 3.732 | |
| 12,500.0 | 7,529.0 | 12,307.0 | 7,529.0 | 86.5 | 84.1 | 90.00 | 4,604.0 | -508.7 | 618.5 | 450.8 | 167.76 | 3.687 | |
| 12,600.0 | 7,529.0 | 12,406.8 | 7,529.0 | 88.2 | 85.8 | 90.00 | 4,703.7 | -503.3 | 623.9 | 452.7 | 171.22 | 3.644 | |
| 12,700.0 | 7,529.0 | 12,506.7 | 7,529.0 | 89.9 | 87.5 | 90.00 | 4,803.4 | -497.9 | 629.3 | 454.6 | 174.68 | 3.603 | |
| 12,800.0 | 7,529.0 | 12,606.6 | 7,529.0 | 91.5 | 89.2 | 90.00 | 4,903.1 | -492.5 | 634.7 | 456.6 | 178.15 | 3.563 | |
| 12,900.0 | 7,529.0 | 12,706.4 | 7,529.0 | 93.2 | 90.9 | 90.00 | 5,002.8 | -487.1 | 640.1 | 458.5 | 181.61 | 3.525 | |
| 13,000.0 | 7,529.0 | 12,806.3 | 7,529.0 | 94.9 | 92.6 | 90.00 | 5,102.5 | -481.7 | 645.6 | 460.5 | 185.08 | 3.488 | |
| 13,097.3 | 7,529.0 | 12,876.7 | 7,529.0 | 96.6 | 93.9 | 90.00 | 5,172.8 | -477.9 | 651.4 | 463.4 | 187.99 | 3.465 SF | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3E-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.05 | 0.0 | 28.0 | 28.0 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.05 | 0.0 | 28.0 | 28.0 | 27.7 | 0.24 | 114.407 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.05 | 0.0 | 28.0 | 28.0 | 27.4 | 0.59 | 47.109 | | |
| 300.0 | 300.0 | 300.2 | 300.2 | 0.5 | 0.5 | 91.73 | -0.8 | 27.6 | 27.6 | 26.7 | 0.94 | 29.311 | | |
| 323.7 | 323.7 | 323.9 | 323.9 | 0.5 | 0.5 | -152.82 | -1.3 | 27.4 | 27.6 | 26.5 | 1.03 | 26.819 CC, ES | | |
| 400.0 | 400.0 | 400.3 | 400.3 | 0.6 | 0.7 | -150.22 | -3.3 | 26.6 | 28.3 | 27.0 | 1.30 | 21.813 | | |
| 500.0 | 499.8 | 500.4 | 500.3 | 0.8 | 0.8 | -147.34 | -7.3 | 25.0 | 31.6 | 29.9 | 1.66 | 18.986 | | |
| 600.0 | 599.5 | 600.3 | 600.0 | 1.1 | 1.0 | -145.41 | -12.9 | 22.6 | 37.4 | 35.4 | 2.05 | 18.251 | | |
| 700.0 | 698.7 | 700.1 | 699.5 | 1.3 | 1.3 | -144.39 | -20.2 | 19.6 | 45.8 | 43.3 | 2.47 | 18.560 | | |
| 800.0 | 797.5 | 799.7 | 798.6 | 1.6 | 1.5 | -144.00 | -29.0 | 16.0 | 56.6 | 53.7 | 2.92 | 19.404 | | |
| 900.0 | 895.9 | 899.2 | 897.5 | 2.0 | 1.7 | -143.31 | -39.4 | 11.7 | 68.6 | 65.2 | 3.40 | 20.152 | | |
| 1,000.0 | 994.4 | 998.7 | 996.1 | 2.3 | 2.0 | -141.61 | -51.4 | 6.8 | 80.3 | 76.4 | 3.93 | 20.415 | | |
| 1,100.0 | 1,092.8 | 1,098.2 | 1,094.5 | 2.6 | 2.3 | -139.28 | -65.0 | 1.2 | 91.9 | 87.4 | 4.51 | 20.364 | | |
| 1,200.0 | 1,191.3 | 1,197.6 | 1,192.5 | 3.0 | 2.6 | -136.51 | -80.1 | -5.1 | 103.4 | 98.3 | 5.14 | 20.130 | | |
| 1,300.0 | 1,289.8 | 1,296.8 | 1,290.1 | 3.3 | 3.0 | -133.54 | -96.6 | -11.9 | 115.1 | 109.3 | 5.80 | 19.851 | | |
| 1,400.0 | 1,388.2 | 1,395.9 | 1,387.6 | 3.7 | 3.3 | -131.01 | -113.3 | -18.8 | 127.0 | 120.6 | 6.47 | 19.638 | | |
| 1,500.0 | 1,486.7 | 1,495.1 | 1,485.1 | 4.0 | 3.7 | -128.92 | -130.0 | -25.7 | 139.2 | 132.0 | 7.14 | 19.482 | | |
| 1,600.0 | 1,585.1 | 1,594.2 | 1,582.6 | 4.4 | 4.0 | -127.16 | -146.7 | -32.6 | 151.5 | 143.6 | 7.82 | 19.367 | | |
| 1,700.0 | 1,683.6 | 1,693.4 | 1,680.1 | 4.7 | 4.4 | -125.67 | -163.4 | -39.5 | 163.9 | 155.4 | 8.50 | 19.281 | | |
| 1,800.0 | 1,782.1 | 1,792.5 | 1,777.6 | 5.1 | 4.7 | -124.40 | -180.1 | -46.3 | 176.4 | 167.2 | 9.18 | 19.216 | | |
| 1,900.0 | 1,880.5 | 1,891.6 | 1,875.0 | 5.4 | 5.1 | -123.29 | -196.8 | -53.2 | 189.0 | 179.1 | 9.86 | 19.168 | | |
| 2,000.0 | 1,979.0 | 1,990.8 | 1,972.5 | 5.8 | 5.4 | -122.31 | -213.5 | -60.1 | 201.6 | 191.1 | 10.54 | 19.131 | | |
| 2,100.0 | 2,077.4 | 2,089.9 | 2,070.0 | 6.1 | 5.8 | -121.46 | -230.2 | -67.0 | 214.3 | 203.1 | 11.22 | 19.103 | | |
| 2,200.0 | 2,175.9 | 2,189.1 | 2,167.5 | 6.5 | 6.1 | -120.70 | -246.9 | -73.9 | 227.0 | 215.1 | 11.90 | 19.083 | | |
| 2,300.0 | 2,274.3 | 2,288.2 | 2,265.0 | 6.8 | 6.5 | -120.02 | -263.6 | -80.8 | 239.8 | 227.2 | 12.58 | 19.067 | | |
| 2,400.0 | 2,372.8 | 2,387.4 | 2,362.5 | 7.2 | 6.8 | -119.41 | -280.3 | -87.7 | 252.6 | 239.3 | 13.26 | 19.056 | | |
| 2,500.0 | 2,471.3 | 2,486.5 | 2,459.9 | 7.5 | 7.2 | -118.85 | -297.0 | -94.6 | 265.4 | 251.5 | 13.93 | 19.048 | | |
| 2,600.0 | 2,569.7 | 2,585.7 | 2,557.4 | 7.9 | 7.5 | -118.35 | -313.7 | -101.5 | 278.3 | 263.7 | 14.61 | 19.042 | | |
| 2,700.0 | 2,668.2 | 2,684.8 | 2,654.9 | 8.2 | 7.9 | -117.90 | -330.4 | -108.4 | 291.1 | 275.8 | 15.29 | 19.039 | | |
| 2,800.0 | 2,766.6 | 2,783.9 | 2,752.4 | 8.6 | 8.3 | -117.48 | -347.1 | -115.3 | 304.0 | 288.0 | 15.97 | 19.037 | | |
| 2,900.0 | 2,865.1 | 2,883.1 | 2,849.9 | 8.9 | 8.6 | -117.09 | -363.8 | -122.1 | 316.9 | 300.3 | 16.65 | 19.036 | | |
| 3,000.0 | 2,963.6 | 2,982.2 | 2,947.4 | 9.3 | 9.0 | -116.74 | -380.5 | -129.0 | 329.8 | 312.5 | 17.33 | 19.036 | | |
| 3,100.0 | 3,062.0 | 3,081.4 | 3,044.8 | 9.7 | 9.3 | -116.41 | -397.2 | -135.9 | 342.7 | 324.7 | 18.00 | 19.037 | | |
| 3,200.0 | 3,160.5 | 3,181.9 | 3,143.8 | 10.0 | 9.7 | -116.19 | -413.6 | -142.7 | 355.5 | 336.9 | 18.67 | 19.046 | | |
| 3,300.0 | 3,258.9 | 3,282.9 | 3,243.5 | 10.4 | 10.0 | -116.26 | -428.5 | -148.8 | 367.8 | 348.5 | 19.30 | 19.057 | | |
| 3,400.0 | 3,357.4 | 3,384.0 | 3,343.6 | 10.7 | 10.3 | -116.57 | -441.8 | -154.3 | 379.6 | 359.7 | 19.90 | 19.072 | | |
| 3,500.0 | 3,455.9 | 3,485.2 | 3,443.9 | 11.1 | 10.6 | -117.12 | -453.4 | -159.1 | 391.0 | 370.5 | 20.48 | 19.093 | | |
| 3,600.0 | 3,554.3 | 3,586.2 | 3,544.4 | 11.4 | 10.8 | -117.89 | -463.4 | -163.2 | 401.9 | 380.9 | 21.02 | 19.124 | | |
| 3,700.0 | 3,652.8 | 3,687.2 | 3,645.0 | 11.8 | 11.0 | -118.85 | -471.8 | -166.7 | 412.5 | 391.0 | 21.52 | 19.169 | | |
| 3,800.0 | 3,751.2 | 3,787.9 | 3,745.5 | 12.1 | 11.2 | -120.00 | -478.5 | -169.4 | 422.9 | 400.9 | 21.99 | 19.234 | | |
| 3,900.0 | 3,849.7 | 3,888.5 | 3,845.9 | 12.5 | 11.4 | -121.32 | -483.5 | -171.5 | 433.0 | 410.6 | 22.41 | 19.325 | | |
| 4,000.0 | 3,948.2 | 3,988.7 | 3,946.1 | 12.8 | 11.5 | -122.80 | -487.0 | -172.9 | 443.1 | 420.3 | 22.78 | 19.448 | | |
| 4,100.0 | 4,046.6 | 4,088.6 | 4,045.9 | 13.2 | 11.6 | -124.43 | -488.8 | -173.7 | 453.2 | 430.0 | 23.11 | 19.610 | | |
| 4,200.0 | 4,145.1 | 4,187.8 | 4,145.1 | 13.5 | 11.8 | -126.17 | -489.1 | -173.8 | 463.4 | 440.0 | 23.39 | 19.808 | | |
| 4,300.0 | 4,243.5 | 4,286.2 | 4,243.5 | 13.9 | 11.9 | -127.86 | -489.1 | -173.8 | 474.0 | 450.4 | 23.66 | 20.033 | | |
| 4,400.0 | 4,342.0 | 4,384.7 | 4,342.0 | 14.3 | 12.0 | -129.47 | -489.1 | -173.8 | 485.1 | 461.2 | 23.92 | 20.279 | | |
| 4,500.0 | 4,440.4 | 4,483.2 | 4,440.4 | 14.6 | 12.1 | -131.02 | -489.1 | -173.8 | 496.5 | 472.3 | 24.17 | 20.543 | | |
| 4,600.0 | 4,538.9 | 4,581.6 | 4,538.9 | 15.0 | 12.2 | -132.49 | -489.1 | -173.8 | 508.2 | 483.8 | 24.41 | 20.824 | | |
| 4,700.0 | 4,637.4 | 4,680.1 | 4,637.4 | 15.3 | 12.3 | -133.90 | -489.1 | -173.8 | 520.3 | 495.7 | 24.64 | 21.118 | | |
| 4,800.0 | 4,735.8 | 4,778.5 | 4,735.8 | 15.7 | 12.4 | -135.25 | -489.1 | -173.8 | 532.7 | 507.8 | 24.86 | 21.423 | | |
| 4,900.0 | 4,834.3 | 4,877.0 | 4,834.3 | 16.0 | 12.5 | -136.53 | -489.1 | -173.8 | 545.3 | 520.2 | 25.09 | 21.737 | | |
| 5,000.0 | 4,932.7 | 4,975.5 | 4,932.7 | 16.4 | 12.7 | -137.76 | -489.1 | -173.8 | 558.2 | 532.9 | 25.31 | 22.059 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3E-9H-N267 - 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 | 5,031.2 | 5,073.9 | 5,031.2 | 16.7 | 12.8 | -138.93 | -489.1 | -173.8 | 571.4 | 545.9 | 25.52 | 22.387 | | |
| 5,200.0 | 5,129.7 | 5,172.4 | 5,129.7 | 17.1 | 12.9 | -140.05 | -489.1 | -173.8 | 584.8 | 559.0 | 25.74 | 22.719 | | |
| 5,300.0 | 5,228.1 | 5,270.8 | 5,228.1 | 17.4 | 13.0 | -141.12 | -489.1 | -173.8 | 598.4 | 572.4 | 25.95 | 23.055 | | |
| 5,400.0 | 5,326.6 | 5,369.3 | 5,326.6 | 17.8 | 13.1 | -142.14 | -489.1 | -173.8 | 612.2 | 586.0 | 26.17 | 23.392 | | |
| 5,500.0 | 5,425.0 | 5,467.7 | 5,425.0 | 18.2 | 13.3 | -143.12 | -489.1 | -173.8 | 626.1 | 599.7 | 26.38 | 23.731 | | |
| 5,600.0 | 5,523.5 | 5,566.2 | 5,523.5 | 18.5 | 13.4 | -144.05 | -489.1 | -173.8 | 640.3 | 613.7 | 26.60 | 24.070 | | |
| 5,700.0 | 5,622.0 | 5,664.7 | 5,622.0 | 18.9 | 13.5 | -144.94 | -489.1 | -173.8 | 654.6 | 627.8 | 26.82 | 24.409 | | |
| 5,800.0 | 5,720.4 | 5,763.1 | 5,720.4 | 19.2 | 13.6 | -145.80 | -489.1 | -173.8 | 669.1 | 642.0 | 27.04 | 24.746 | | |
| 5,900.0 | 5,818.9 | 5,861.6 | 5,818.9 | 19.6 | 13.8 | -146.62 | -489.1 | -173.8 | 683.7 | 656.4 | 27.26 | 25.082 | | |
| 6,000.0 | 5,917.3 | 5,960.0 | 5,917.3 | 19.9 | 13.9 | -147.41 | -489.1 | -173.8 | 698.4 | 670.9 | 27.48 | 25.415 | | |
| 6,100.0 | 6,015.8 | 6,058.5 | 6,015.8 | 20.3 | 14.0 | -148.16 | -489.1 | -173.8 | 713.3 | 685.6 | 27.70 | 25.746 | | |
| 6,200.0 | 6,114.2 | 6,157.0 | 6,114.2 | 20.6 | 14.1 | -148.88 | -489.1 | -173.8 | 728.2 | 700.3 | 27.93 | 26.073 | | |
| 6,300.0 | 6,212.7 | 6,255.4 | 6,212.7 | 21.0 | 14.3 | -149.58 | -489.1 | -173.8 | 743.3 | 715.2 | 28.16 | 26.397 | | |
| 6,400.0 | 6,311.2 | 6,353.9 | 6,311.2 | 21.3 | 14.4 | -150.24 | -489.1 | -173.8 | 758.5 | 730.1 | 28.39 | 26.717 | | |
| 6,500.0 | 6,409.6 | 6,452.3 | 6,409.6 | 21.7 | 14.5 | -150.88 | -489.1 | -173.8 | 773.8 | 745.2 | 28.63 | 27.032 | | |
| 6,600.0 | 6,508.1 | 6,550.8 | 6,508.1 | 22.1 | 14.7 | -151.50 | -489.1 | -173.8 | 789.2 | 760.3 | 28.86 | 27.344 | | |
| 6,700.0 | 6,606.5 | 6,649.3 | 6,606.5 | 22.4 | 14.8 | -152.09 | -489.1 | -173.8 | 804.6 | 775.5 | 29.10 | 27.651 | | |
| 6,800.0 | 6,705.0 | 6,747.7 | 6,705.0 | 22.8 | 14.9 | -152.66 | -489.1 | -173.8 | 820.2 | 790.8 | 29.34 | 27.953 | | |
| 6,900.0 | 6,803.5 | 6,849.1 | 6,806.2 | 23.1 | 15.0 | -153.54 | -484.5 | -173.8 | 835.7 | 806.2 | 29.45 | 28.381 | | |
| 7,000.0 | 6,901.9 | 6,945.3 | 6,900.2 | 23.5 | 14.9 | -155.40 | -464.4 | -173.8 | 851.3 | 822.2 | 29.17 | 29.188 | | |
| 7,100.0 | 7,000.5 | 7,032.8 | 6,981.7 | 23.8 | 14.7 | 154.54 | -432.8 | -173.8 | 868.3 | 839.9 | 28.37 | 30.602 | | |
| 7,200.0 | 7,098.0 | 7,116.2 | 7,054.0 | 24.0 | 14.5 | 117.08 | -391.4 | -173.8 | 886.5 | 859.0 | 27.51 | 32.222 | | |
| 7,300.0 | 7,191.3 | 7,200.0 | 7,119.8 | 24.1 | 14.2 | 101.23 | -339.7 | -173.8 | 904.9 | 878.1 | 26.79 | 33.780 | | |
| 7,400.0 | 7,277.8 | 7,274.1 | 7,171.2 | 24.1 | 13.9 | 92.57 | -286.4 | -173.8 | 922.6 | 896.3 | 26.32 | 35.051 | | |
| 7,500.0 | 7,354.6 | 7,350.0 | 7,216.3 | 24.1 | 13.7 | 86.84 | -225.4 | -173.8 | 938.9 | 912.9 | 26.04 | 36.058 | | |
| 7,600.0 | 7,419.6 | 7,424.6 | 7,252.4 | 24.0 | 13.6 | 82.82 | -160.2 | -173.8 | 953.0 | 927.1 | 25.93 | 36.749 | | |
| 7,700.0 | 7,470.7 | 7,500.0 | 7,280.0 | 24.0 | 13.6 | 79.98 | -90.1 | -173.8 | 964.4 | 938.4 | 25.95 | 37.157 | | |
| 7,800.0 | 7,506.4 | 7,570.9 | 7,297.2 | 24.1 | 13.6 | 78.13 | -21.4 | -173.8 | 972.5 | 946.4 | 26.12 | 37.231 | | |
| 7,900.0 | 7,525.7 | 7,650.0 | 7,306.4 | 24.2 | 13.8 | 77.09 | 57.2 | -173.7 | 977.2 | 950.7 | 26.45 | 36.939 | | |
| 8,000.0 | 7,529.0 | 7,730.2 | 7,307.0 | 24.5 | 14.2 | 76.88 | 137.3 | -173.7 | 978.1 | 951.0 | 27.12 | 36.073 | | |
| 8,100.0 | 7,529.0 | 7,830.2 | 7,307.0 | 24.8 | 14.8 | 76.88 | 237.3 | -173.7 | 978.1 | 949.8 | 28.34 | 34.519 | | |
| 8,200.0 | 7,529.0 | 7,930.2 | 7,307.0 | 25.3 | 15.6 | 76.88 | 337.3 | -173.7 | 978.2 | 948.3 | 29.90 | 32.714 | | |
| 8,300.0 | 7,529.0 | 8,030.2 | 7,307.0 | 25.9 | 16.5 | 76.88 | 437.3 | -173.7 | 978.2 | 946.4 | 31.76 | 30.802 | | |
| 8,400.0 | 7,529.0 | 8,130.2 | 7,307.0 | 26.5 | 17.6 | 76.88 | 537.3 | -173.7 | 978.2 | 944.3 | 33.86 | 28.891 | | |
| 8,500.0 | 7,529.0 | 8,230.2 | 7,307.0 | 27.3 | 18.7 | 76.88 | 637.3 | -173.7 | 978.2 | 942.0 | 36.16 | 27.052 | | |
| 8,600.0 | 7,529.0 | 8,330.2 | 7,307.0 | 28.2 | 20.0 | 76.88 | 737.3 | -173.7 | 978.2 | 939.6 | 38.63 | 25.324 | | |
| 8,700.0 | 7,529.0 | 8,430.2 | 7,307.0 | 29.1 | 21.3 | 76.88 | 837.3 | -173.7 | 978.2 | 937.0 | 41.23 | 23.725 | | |
| 8,800.0 | 7,529.0 | 8,530.2 | 7,307.0 | 30.1 | 22.7 | 76.88 | 937.3 | -173.6 | 978.2 | 934.3 | 43.95 | 22.260 | | |
| 8,900.0 | 7,529.0 | 8,630.2 | 7,307.0 | 31.2 | 24.1 | 76.88 | 1,037.3 | -173.6 | 978.2 | 931.5 | 46.75 | 20.923 | | |
| 9,000.0 | 7,529.0 | 8,730.2 | 7,307.0 | 32.4 | 25.6 | 76.88 | 1,137.3 | -173.6 | 978.2 | 928.6 | 49.64 | 19.707 | | |
| 9,100.0 | 7,529.0 | 8,830.2 | 7,307.0 | 33.6 | 27.1 | 76.88 | 1,237.3 | -173.6 | 978.3 | 925.7 | 52.59 | 18.603 | | |
| 9,200.0 | 7,529.0 | 8,930.2 | 7,307.0 | 34.8 | 28.6 | 76.88 | 1,337.3 | -173.6 | 978.3 | 922.7 | 55.59 | 17.598 | | |
| 9,300.0 | 7,529.0 | 9,030.2 | 7,307.0 | 36.1 | 30.2 | 76.88 | 1,437.3 | -173.6 | 978.3 | 919.6 | 58.64 | 16.684 | | |
| 9,400.0 | 7,529.0 | 9,130.2 | 7,307.0 | 37.4 | 31.7 | 76.88 | 1,537.3 | -173.6 | 978.3 | 916.6 | 61.72 | 15.850 | | |
| 9,420.4 | 7,529.0 | 9,150.5 | 7,307.0 | 37.7 | 32.1 | 76.88 | 1,557.7 | -173.6 | 978.3 | 915.9 | 62.36 | 15.689 | | |
| 9,500.0 | 7,529.0 | 9,222.7 | 7,307.0 | 38.8 | 33.2 | 76.89 | 1,629.8 | -173.4 | 978.5 | 913.8 | 64.73 | 15.118 | | |
| 9,600.0 | 7,529.0 | 9,308.4 | 7,307.0 | 40.2 | 34.6 | 76.90 | 1,715.5 | -172.1 | 980.0 | 912.4 | 67.65 | 14.486 | | |
| 9,700.0 | 7,529.0 | 9,400.0 | 7,307.0 | 41.6 | 36.1 | 76.94 | 1,807.1 | -169.2 | 983.0 | 912.3 | 70.70 | 13.904 | | |
| 9,800.0 | 7,529.0 | 9,479.6 | 7,307.0 | 43.0 | 37.4 | 76.99 | 1,886.6 | -165.6 | 987.4 | 913.8 | 73.57 | 13.420 | | |
| 9,900.0 | 7,529.0 | 9,565.1 | 7,307.0 | 44.5 | 38.7 | 77.06 | 1,971.9 | -160.4 | 993.3 | 916.7 | 76.57 | 12.973 | | |
| 10,000.0 | 7,529.0 | 9,650.3 | 7,307.0 | 46.0 | 40.1 | 77.14 | 2,056.9 | -154.0 | 1,000.6 | 921.0 | 79.58 | 12.574 | | |
| 10,100.0 | 7,529.0 | 9,735.4 | 7,307.0 | 47.5 | 41.5 | 77.24 | 2,141.6 | -146.4 | 1,009.3 | 926.7 | 82.60 | 12.220 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3E-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|----------------------------|-----------------------------|------------------------------|----------------------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | | Distance | | | | Total Uncertainty Axis | Separation Factor | Warning | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | | | | |
| 10,200.0 | 7,529.0 | 9,827.7 | 7,307.0 | 49.0 | 43.0 | 77.35 | 2,233.4 | -136.9 | 1,019.4 | 933.6 | 85.76 | 11.886 | | |
| 10,300.0 | 7,529.0 | 9,927.1 | 7,307.0 | 50.5 | 44.7 | 77.48 | 2,332.3 | -126.5 | 1,029.6 | 940.5 | 89.06 | 11.561 | | |
| 10,400.0 | 7,529.0 | 10,026.6 | 7,307.0 | 52.1 | 46.3 | 77.61 | 2,431.2 | -116.1 | 1,039.8 | 947.4 | 92.37 | 11.257 | | |
| 10,500.0 | 7,529.0 | 10,126.0 | 7,307.0 | 53.7 | 48.0 | 77.73 | 2,530.2 | -105.7 | 1,050.0 | 954.3 | 95.69 | 10.973 | | |
| 10,600.0 | 7,529.0 | 10,225.5 | 7,307.0 | 55.2 | 49.7 | 77.85 | 2,629.1 | -95.3 | 1,060.2 | 961.2 | 99.02 | 10.707 | | |
| 10,700.0 | 7,529.0 | 10,324.9 | 7,307.0 | 56.8 | 51.3 | 77.97 | 2,728.0 | -84.9 | 1,070.4 | 968.1 | 102.36 | 10.457 | | |
| 10,800.0 | 7,529.0 | 10,424.4 | 7,307.0 | 58.4 | 53.0 | 78.08 | 2,826.9 | -74.5 | 1,080.7 | 975.0 | 105.71 | 10.223 | | |
| 10,900.0 | 7,529.0 | 10,523.8 | 7,307.0 | 60.0 | 54.7 | 78.20 | 2,925.8 | -64.1 | 1,090.9 | 981.8 | 109.07 | 10.001 | | |
| 11,000.0 | 7,529.0 | 10,629.4 | 7,307.0 | 61.6 | 56.5 | 78.31 | 3,030.8 | -53.2 | 1,101.1 | 988.5 | 112.55 | 9.783 | | |
| 11,100.0 | 7,529.0 | 10,752.2 | 7,307.0 | 63.2 | 58.6 | 78.43 | 3,153.1 | -42.3 | 1,109.7 | 993.4 | 116.32 | 9.540 | | |
| 11,200.0 | 7,529.0 | 10,875.4 | 7,307.0 | 64.9 | 60.7 | 78.51 | 3,276.1 | -34.1 | 1,116.3 | 996.2 | 120.09 | 9.295 | | |
| 11,300.0 | 7,529.0 | 10,999.0 | 7,307.0 | 66.5 | 62.8 | 78.57 | 3,399.5 | -28.5 | 1,120.7 | 996.8 | 123.87 | 9.047 | | |
| 11,400.0 | 7,529.0 | 11,122.7 | 7,307.0 | 68.1 | 64.9 | 78.60 | 3,523.2 | -25.6 | 1,123.0 | 995.4 | 127.65 | 8.798 | | |
| 11,500.0 | 7,529.0 | 11,246.5 | 7,307.0 | 69.8 | 67.0 | 78.60 | 3,646.9 | -25.3 | 1,123.2 | 991.8 | 131.42 | 8.547 | | |
| 11,600.0 | 7,529.0 | 11,370.2 | 7,307.0 | 71.4 | 69.2 | 78.58 | 3,770.7 | -27.7 | 1,121.3 | 986.2 | 135.18 | 8.295 | | |
| 11,700.0 | 7,529.0 | 11,493.8 | 7,307.0 | 73.1 | 71.3 | 78.52 | 3,894.1 | -32.8 | 1,117.3 | 978.4 | 138.93 | 8.042 | | |
| 11,800.0 | 7,529.0 | 11,617.1 | 7,307.0 | 74.8 | 73.4 | 78.45 | 4,017.2 | -40.5 | 1,111.2 | 968.5 | 142.67 | 7.789 | | |
| 11,900.0 | 7,529.0 | 11,720.1 | 7,307.0 | 76.4 | 75.2 | 78.36 | 4,119.9 | -48.3 | 1,103.7 | 957.7 | 146.06 | 7.557 | | |
| 12,000.0 | 7,529.0 | 11,819.8 | 7,307.0 | 78.1 | 76.9 | 78.28 | 4,219.3 | -55.9 | 1,096.3 | 946.9 | 149.39 | 7.338 | | |
| 12,100.0 | 7,529.0 | 11,919.5 | 7,307.0 | 79.8 | 78.7 | 78.20 | 4,318.7 | -63.5 | 1,088.8 | 936.1 | 152.73 | 7.129 | | |
| 12,200.0 | 7,529.0 | 12,019.2 | 7,307.0 | 81.4 | 80.4 | 78.12 | 4,418.1 | -71.1 | 1,081.3 | 925.3 | 156.06 | 6.929 | | |
| 12,300.0 | 7,529.0 | 12,118.9 | 7,307.0 | 83.1 | 82.1 | 78.04 | 4,517.5 | -78.7 | 1,073.9 | 914.5 | 159.40 | 6.737 | | |
| 12,400.0 | 7,529.0 | 12,218.6 | 7,307.0 | 84.8 | 83.8 | 77.95 | 4,617.0 | -86.3 | 1,066.4 | 903.7 | 162.73 | 6.553 | | |
| 12,500.0 | 7,529.0 | 12,318.3 | 7,307.0 | 86.5 | 85.6 | 77.86 | 4,716.4 | -93.9 | 1,059.0 | 892.9 | 166.06 | 6.377 | | |
| 12,600.0 | 7,529.0 | 12,418.1 | 7,307.0 | 88.2 | 87.3 | 77.78 | 4,815.8 | -101.5 | 1,051.5 | 882.1 | 169.39 | 6.208 | | |
| 12,700.0 | 7,529.0 | 12,517.8 | 7,307.0 | 89.9 | 89.0 | 77.69 | 4,915.2 | -109.1 | 1,044.1 | 871.3 | 172.72 | 6.045 | | |
| 12,800.0 | 7,529.0 | 12,617.5 | 7,307.0 | 91.5 | 90.8 | 77.60 | 5,014.6 | -116.7 | 1,036.6 | 860.6 | 176.05 | 5.888 | | |
| 12,900.0 | 7,529.0 | 12,717.2 | 7,307.0 | 93.2 | 92.5 | 77.51 | 5,114.1 | -124.4 | 1,029.2 | 849.8 | 179.37 | 5.738 | | |
| 13,000.0 | 7,529.0 | 12,772.4 | 7,307.0 | 94.9 | 93.5 | 77.46 | 5,169.2 | -128.6 | 1,022.7 | 840.7 | 181.97 | 5.620 | | |
| 13,031.7 | 7,529.0 | 12,772.4 | 7,307.0 | 95.5 | 93.5 | 77.46 | 5,169.2 | -128.6 | 1,022.2 | 839.7 | 182.50 | 5.601 | | |
| 13,097.3 | 7,529.0 | 12,772.4 | 7,307.0 | 96.6 | 93.5 | 77.46 | 5,169.2 | -128.6 | 1,024.3 | 840.7 | 183.62 | 5.578 SF | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3F-9H-N267 - 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 | 90.05 | 0.0 | 39.1 | 39.1 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.05 | 0.0 | 39.1 | 39.1 | 38.9 | 0.24 | 160.170 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.05 | 0.0 | 39.1 | 39.1 | 38.5 | 0.59 | 65.953 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.05 | 0.0 | 39.1 | 39.1 | 38.2 | 0.94 | 41.526 CC, ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -156.32 | 0.0 | 39.1 | 40.7 | 39.4 | 1.29 | 31.535 | | |
| 500.0 | 499.8 | 499.8 | 499.8 | 0.8 | 0.8 | -158.93 | 0.0 | 39.1 | 45.6 | 43.9 | 1.64 | 27.770 | | |
| 600.0 | 599.5 | 599.2 | 599.2 | 1.1 | 1.0 | -161.32 | -0.8 | 39.4 | 54.0 | 52.0 | 1.99 | 27.133 SF | | |
| 700.0 | 698.7 | 698.2 | 698.2 | 1.3 | 1.2 | -162.45 | -3.2 | 40.3 | 66.2 | 63.9 | 2.34 | 28.266 | | |
| 800.0 | 797.5 | 796.6 | 796.5 | 1.6 | 1.4 | -162.73 | -7.2 | 41.9 | 82.1 | 79.4 | 2.70 | 30.396 | | |
| 900.0 | 895.9 | 894.6 | 894.3 | 2.0 | 1.5 | -162.33 | -12.7 | 43.9 | 100.2 | 97.1 | 3.08 | 32.530 | | |
| 1,000.0 | 994.4 | 992.4 | 991.8 | 2.3 | 1.7 | -161.27 | -19.8 | 46.6 | 118.7 | 115.2 | 3.48 | 34.138 | | |
| 1,100.0 | 1,092.8 | 1,090.0 | 1,089.0 | 2.6 | 2.0 | -159.81 | -28.4 | 49.9 | 137.7 | 133.8 | 3.89 | 35.344 | | |
| 1,200.0 | 1,191.3 | 1,187.3 | 1,185.6 | 3.0 | 2.2 | -158.12 | -38.5 | 53.7 | 157.2 | 152.8 | 4.34 | 36.240 | | |
| 1,300.0 | 1,289.8 | 1,284.2 | 1,281.7 | 3.3 | 2.4 | -156.29 | -50.2 | 58.1 | 177.4 | 172.5 | 4.81 | 36.904 | | |
| 1,400.0 | 1,388.2 | 1,381.7 | 1,378.3 | 3.7 | 2.7 | -154.53 | -62.8 | 62.9 | 198.1 | 192.8 | 5.29 | 37.431 | | |
| 1,500.0 | 1,486.7 | 1,479.3 | 1,475.0 | 4.0 | 3.0 | -153.09 | -75.5 | 67.7 | 218.9 | 213.1 | 5.78 | 37.846 | | |
| 1,600.0 | 1,585.1 | 1,577.0 | 1,571.7 | 4.4 | 3.2 | -151.91 | -88.3 | 72.5 | 239.9 | 233.6 | 6.28 | 38.184 | | |
| 1,700.0 | 1,683.6 | 1,674.7 | 1,668.4 | 4.7 | 3.5 | -150.91 | -101.0 | 77.3 | 260.9 | 254.1 | 6.78 | 38.463 | | |
| 1,800.0 | 1,782.1 | 1,772.3 | 1,765.1 | 5.1 | 3.8 | -150.06 | -113.7 | 82.1 | 282.0 | 274.7 | 7.29 | 38.698 | | |
| 1,900.0 | 1,880.5 | 1,870.0 | 1,861.9 | 5.4 | 4.1 | -149.34 | -126.4 | 86.9 | 303.2 | 295.4 | 7.79 | 38.898 | | |
| 2,000.0 | 1,979.0 | 1,967.7 | 1,958.6 | 5.8 | 4.3 | -148.70 | -139.1 | 91.7 | 324.4 | 316.1 | 8.30 | 39.071 | | |
| 2,100.0 | 2,077.4 | 2,065.3 | 2,055.3 | 6.1 | 4.6 | -148.15 | -151.8 | 96.5 | 345.6 | 336.8 | 8.81 | 39.221 | | |
| 2,200.0 | 2,175.9 | 2,163.0 | 2,152.0 | 6.5 | 4.9 | -147.65 | -164.5 | 101.3 | 366.9 | 357.6 | 9.32 | 39.353 | | |
| 2,300.0 | 2,274.3 | 2,260.7 | 2,248.7 | 6.8 | 5.2 | -147.22 | -177.3 | 106.1 | 388.2 | 378.3 | 9.83 | 39.470 | | |
| 2,400.0 | 2,372.8 | 2,358.3 | 2,345.4 | 7.2 | 5.5 | -146.82 | -190.0 | 110.9 | 409.5 | 399.1 | 10.35 | 39.575 | | |
| 2,500.0 | 2,471.3 | 2,456.0 | 2,442.2 | 7.5 | 5.8 | -146.47 | -202.7 | 115.7 | 430.8 | 419.9 | 10.86 | 39.669 | | |
| 2,600.0 | 2,569.7 | 2,553.7 | 2,538.9 | 7.9 | 6.0 | -146.15 | -215.4 | 120.5 | 452.1 | 440.7 | 11.37 | 39.754 | | |
| 2,700.0 | 2,668.2 | 2,651.3 | 2,635.6 | 8.2 | 6.3 | -145.86 | -228.1 | 125.3 | 473.5 | 461.6 | 11.89 | 39.831 | | |
| 2,800.0 | 2,766.6 | 2,749.0 | 2,732.3 | 8.6 | 6.6 | -145.59 | -240.8 | 130.1 | 494.8 | 482.4 | 12.40 | 39.901 | | |
| 2,900.0 | 2,865.1 | 2,846.7 | 2,829.0 | 8.9 | 6.9 | -145.35 | -253.6 | 134.9 | 516.2 | 503.3 | 12.92 | 39.966 | | |
| 3,000.0 | 2,963.6 | 2,944.3 | 2,925.7 | 9.3 | 7.2 | -145.12 | -266.3 | 139.7 | 537.6 | 524.1 | 13.43 | 40.025 | | |
| 3,100.0 | 3,062.0 | 3,042.0 | 3,022.5 | 9.7 | 7.5 | -144.92 | -279.0 | 144.5 | 558.9 | 545.0 | 13.95 | 40.079 | | |
| 3,200.0 | 3,160.5 | 3,139.7 | 3,119.2 | 10.0 | 7.8 | -144.72 | -291.7 | 149.3 | 580.3 | 565.9 | 14.46 | 40.130 | | |
| 3,300.0 | 3,258.9 | 3,237.4 | 3,215.9 | 10.4 | 8.1 | -144.54 | -304.4 | 154.2 | 601.7 | 586.8 | 14.98 | 40.177 | | |
| 3,400.0 | 3,357.4 | 3,335.0 | 3,312.6 | 10.7 | 8.4 | -144.38 | -317.1 | 159.0 | 623.1 | 607.6 | 15.49 | 40.220 | | |
| 3,500.0 | 3,455.9 | 3,432.7 | 3,409.3 | 11.1 | 8.6 | -144.22 | -329.8 | 163.8 | 644.5 | 628.5 | 16.01 | 40.261 | | |
| 3,600.0 | 3,554.3 | 3,530.4 | 3,506.1 | 11.4 | 8.9 | -144.08 | -342.6 | 168.6 | 665.9 | 649.4 | 16.53 | 40.299 | | |
| 3,700.0 | 3,652.8 | 3,628.0 | 3,602.8 | 11.8 | 9.2 | -143.94 | -355.3 | 173.4 | 687.4 | 670.3 | 17.04 | 40.335 | | |
| 3,800.0 | 3,751.2 | 3,725.7 | 3,699.5 | 12.1 | 9.5 | -143.81 | -368.0 | 178.2 | 708.8 | 691.2 | 17.56 | 40.368 | | |
| 3,900.0 | 3,849.7 | 3,823.4 | 3,796.2 | 12.5 | 9.8 | -143.69 | -380.7 | 183.0 | 730.2 | 712.1 | 18.07 | 40.400 | | |
| 4,000.0 | 3,948.2 | 3,921.0 | 3,892.9 | 12.8 | 10.1 | -143.58 | -393.4 | 187.8 | 751.6 | 733.0 | 18.59 | 40.429 | | |
| 4,100.0 | 4,046.6 | 4,018.7 | 3,989.6 | 13.2 | 10.4 | -143.47 | -406.1 | 192.6 | 773.0 | 753.9 | 19.11 | 40.457 | | |
| 4,200.0 | 4,145.1 | 4,116.4 | 4,086.4 | 13.5 | 10.7 | -143.37 | -418.9 | 197.4 | 794.5 | 774.8 | 19.62 | 40.484 | | |
| 4,300.0 | 4,243.5 | 4,214.0 | 4,183.1 | 13.9 | 11.0 | -143.27 | -431.6 | 202.2 | 815.9 | 795.8 | 20.14 | 40.509 | | |
| 4,400.0 | 4,342.0 | 4,316.9 | 4,285.0 | 14.3 | 11.3 | -143.20 | -444.6 | 207.1 | 837.1 | 816.5 | 20.66 | 40.516 | | |
| 4,500.0 | 4,440.4 | 4,423.2 | 4,390.6 | 14.6 | 11.5 | -143.23 | -456.4 | 211.6 | 857.5 | 836.3 | 21.16 | 40.519 | | |
| 4,600.0 | 4,538.9 | 4,529.9 | 4,496.7 | 15.0 | 11.8 | -143.38 | -466.3 | 215.3 | 876.8 | 855.2 | 21.64 | 40.525 | | |
| 4,700.0 | 4,637.4 | 4,636.9 | 4,603.3 | 15.3 | 12.0 | -143.63 | -474.5 | 218.4 | 895.3 | 873.2 | 22.09 | 40.536 | | |
| 4,800.0 | 4,735.8 | 4,744.1 | 4,710.3 | 15.7 | 12.2 | -143.97 | -480.8 | 220.8 | 912.7 | 890.2 | 22.51 | 40.553 | | |
| 4,900.0 | 4,834.3 | 4,851.5 | 4,817.6 | 16.0 | 12.4 | -144.41 | -485.2 | 222.5 | 929.2 | 906.3 | 22.90 | 40.580 | | |
| 5,000.0 | 4,932.7 | 4,959.0 | 4,925.1 | 16.4 | 12.5 | -144.94 | -487.7 | 223.4 | 944.9 | 921.6 | 23.26 | 40.617 | | |
| 5,100.0 | 5,031.2 | 5,065.1 | 5,031.2 | 16.7 | 12.7 | -145.55 | -488.4 | 223.7 | 959.7 | 936.1 | 23.60 | 40.661 | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3F-9H-N267 - 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 | 5,129.7 | 5,163.6 | 5,129.7 | 17.1 | 12.8 | -146.12 | -488.4 | 223.7 | 974.2 | 950.3 | 23.93 | 40.718 | | |
| 5,300.0 | 5,228.1 | 5,262.0 | 5,228.1 | 17.4 | 12.9 | -146.69 | -488.4 | 223.7 | 988.8 | 964.6 | 24.25 | 40.781 | | |
| 5,400.0 | 5,326.6 | 5,360.5 | 5,326.6 | 17.8 | 13.0 | -147.23 | -488.4 | 223.7 | 1,003.6 | 979.0 | 24.57 | 40.849 | | |
| 5,500.0 | 5,425.0 | 5,458.9 | 5,425.0 | 18.2 | 13.2 | -147.76 | -488.4 | 223.7 | 1,018.4 | 993.5 | 24.89 | 40.922 | | |
| 5,600.0 | 5,523.5 | 5,557.4 | 5,523.5 | 18.5 | 13.3 | -148.28 | -488.4 | 223.7 | 1,033.3 | 1,008.1 | 25.20 | 40.998 | | |
| 5,700.0 | 5,622.0 | 5,655.9 | 5,622.0 | 18.9 | 13.4 | -148.78 | -488.4 | 223.7 | 1,048.3 | 1,022.7 | 25.52 | 41.077 | | |
| 5,800.0 | 5,720.4 | 5,754.3 | 5,720.4 | 19.2 | 13.5 | -149.27 | -488.4 | 223.7 | 1,063.3 | 1,037.5 | 25.83 | 41.160 | | |
| 5,900.0 | 5,818.9 | 5,852.8 | 5,818.9 | 19.6 | 13.7 | -149.74 | -488.4 | 223.7 | 1,078.4 | 1,052.3 | 26.15 | 41.245 | | |
| 6,000.0 | 5,917.3 | 5,951.2 | 5,917.3 | 19.9 | 13.8 | -150.20 | -488.4 | 223.7 | 1,093.6 | 1,067.2 | 26.46 | 41.332 | | |
| 6,100.0 | 6,015.8 | 6,049.7 | 6,015.8 | 20.3 | 13.9 | -150.65 | -488.4 | 223.7 | 1,108.9 | 1,082.1 | 26.77 | 41.420 | | |
| 6,200.0 | 6,114.2 | 6,148.2 | 6,114.2 | 20.6 | 14.0 | -151.08 | -488.4 | 223.7 | 1,124.2 | 1,097.1 | 27.08 | 41.510 | | |
| 6,300.0 | 6,212.7 | 6,246.6 | 6,212.7 | 21.0 | 14.2 | -151.50 | -488.4 | 223.7 | 1,139.6 | 1,112.2 | 27.39 | 41.602 | | |
| 6,400.0 | 6,311.2 | 6,345.1 | 6,311.2 | 21.3 | 14.3 | -151.92 | -488.4 | 223.7 | 1,155.1 | 1,127.4 | 27.70 | 41.694 | | |
| 6,500.0 | 6,409.6 | 6,443.5 | 6,409.6 | 21.7 | 14.4 | -152.32 | -488.4 | 223.7 | 1,170.6 | 1,142.6 | 28.01 | 41.787 | | |
| 6,600.0 | 6,508.1 | 6,542.0 | 6,508.1 | 22.1 | 14.6 | -152.71 | -488.4 | 223.7 | 1,186.2 | 1,157.8 | 28.32 | 41.881 | | |
| 6,700.0 | 6,606.5 | 6,640.4 | 6,606.5 | 22.4 | 14.7 | -153.09 | -488.4 | 223.7 | 1,201.8 | 1,173.1 | 28.63 | 41.975 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3G-9H-N267 - Hz - Plan #1 | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------|---------------|--|--------------------|--------|
| Survey Program: O-Geolink MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | Total | | Separation | | Warning | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Uncertainty Axis | Factor | | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 90.05 | 0.0 | 50.3 | 50.3 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.05 | 0.0 | 50.3 | 50.3 | 50.1 | 0.24 | 205.933 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.05 | 0.0 | 50.3 | 50.3 | 49.7 | 0.59 | 84.796 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.05 | 0.0 | 50.3 | 50.3 | 49.4 | 0.94 | 53.390 CC, ES | | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -156.11 | 0.0 | 50.3 | 51.9 | 50.6 | 1.29 | 40.191 | | | |
| 500.0 | 499.8 | 499.2 | 499.2 | 0.8 | 0.8 | -157.56 | -0.6 | 50.9 | 57.3 | 55.7 | 1.64 | 34.946 | | | |
| 600.0 | 599.5 | 597.9 | 597.9 | 1.1 | 1.0 | -158.73 | -2.4 | 52.8 | 67.2 | 65.2 | 1.99 | 33.729 SF | | | |
| 700.0 | 698.7 | 696.0 | 695.9 | 1.3 | 1.2 | -159.50 | -5.4 | 55.8 | 81.5 | 79.1 | 2.35 | 34.686 | | | |
| 800.0 | 797.5 | 793.3 | 793.0 | 1.6 | 1.4 | -159.94 | -9.4 | 60.0 | 100.1 | 97.4 | 2.71 | 36.897 | | | |
| 900.0 | 895.9 | 889.7 | 889.1 | 2.0 | 1.6 | -160.02 | -14.6 | 65.4 | 121.5 | 118.4 | 3.09 | 39.307 | | | |
| 1,000.0 | 994.4 | 985.7 | 984.7 | 2.3 | 1.8 | -159.59 | -20.8 | 71.8 | 144.0 | 140.5 | 3.48 | 41.353 | | | |
| 1,100.0 | 1,092.8 | 1,081.1 | 1,079.5 | 2.6 | 2.0 | -158.85 | -28.1 | 79.4 | 167.6 | 163.7 | 3.89 | 43.120 | | | |
| 1,200.0 | 1,191.3 | 1,176.0 | 1,173.6 | 3.0 | 2.3 | -157.94 | -36.5 | 88.1 | 192.3 | 188.0 | 4.31 | 44.669 | | | |
| 1,300.0 | 1,289.8 | 1,272.0 | 1,268.7 | 3.3 | 2.5 | -157.00 | -45.7 | 97.6 | 217.9 | 213.1 | 4.74 | 46.009 | | | |
| 1,400.0 | 1,388.2 | 1,368.6 | 1,364.4 | 3.7 | 2.8 | -156.25 | -55.1 | 107.3 | 243.5 | 238.3 | 5.17 | 47.093 | | | |
| 1,500.0 | 1,486.7 | 1,465.2 | 1,460.1 | 4.0 | 3.1 | -155.63 | -64.4 | 117.0 | 269.2 | 263.6 | 5.61 | 47.989 | | | |
| 1,600.0 | 1,585.1 | 1,561.9 | 1,555.7 | 4.4 | 3.3 | -155.13 | -73.8 | 126.7 | 294.9 | 288.8 | 6.05 | 48.741 | | | |
| 1,700.0 | 1,683.6 | 1,658.5 | 1,651.4 | 4.7 | 3.6 | -154.70 | -83.1 | 136.3 | 320.6 | 314.1 | 6.49 | 49.379 | | | |
| 1,800.0 | 1,782.1 | 1,755.1 | 1,747.1 | 5.1 | 3.9 | -154.34 | -92.4 | 146.0 | 346.3 | 339.4 | 6.94 | 49.928 | | | |
| 1,900.0 | 1,880.5 | 1,851.7 | 1,842.8 | 5.4 | 4.2 | -154.03 | -101.8 | 155.7 | 372.0 | 364.6 | 7.38 | 50.404 | | | |
| 2,000.0 | 1,979.0 | 1,948.3 | 1,938.4 | 5.8 | 4.4 | -153.76 | -111.1 | 165.3 | 397.8 | 389.9 | 7.83 | 50.822 | | | |
| 2,100.0 | 2,077.4 | 2,044.9 | 2,034.1 | 6.1 | 4.7 | -153.52 | -120.5 | 175.0 | 423.5 | 415.2 | 8.27 | 51.190 | | | |
| 2,200.0 | 2,175.9 | 2,141.5 | 2,129.8 | 6.5 | 5.0 | -153.31 | -129.8 | 184.7 | 449.3 | 440.5 | 8.72 | 51.517 | | | |
| 2,300.0 | 2,274.3 | 2,238.2 | 2,225.5 | 6.8 | 5.3 | -153.12 | -139.1 | 194.4 | 475.0 | 465.9 | 9.17 | 51.810 | | | |
| 2,400.0 | 2,372.8 | 2,334.8 | 2,321.1 | 7.2 | 5.6 | -152.95 | -148.5 | 204.0 | 500.8 | 491.2 | 9.62 | 52.073 | | | |
| 2,500.0 | 2,471.3 | 2,431.4 | 2,416.8 | 7.5 | 5.9 | -152.80 | -157.8 | 213.7 | 526.6 | 516.5 | 10.07 | 52.311 | | | |
| 2,600.0 | 2,569.7 | 2,528.0 | 2,512.5 | 7.9 | 6.2 | -152.66 | -167.2 | 223.4 | 552.3 | 541.8 | 10.52 | 52.527 | | | |
| 2,700.0 | 2,668.2 | 2,624.6 | 2,608.2 | 8.2 | 6.4 | -152.54 | -176.5 | 233.1 | 578.1 | 567.1 | 10.96 | 52.724 | | | |
| 2,800.0 | 2,766.6 | 2,721.2 | 2,703.8 | 8.6 | 6.7 | -152.42 | -185.8 | 242.7 | 603.9 | 592.5 | 11.41 | 52.905 | | | |
| 2,900.0 | 2,865.1 | 2,817.8 | 2,799.5 | 8.9 | 7.0 | -152.32 | -195.2 | 252.4 | 629.7 | 617.8 | 11.86 | 53.071 | | | |
| 3,000.0 | 2,963.6 | 2,914.5 | 2,895.2 | 9.3 | 7.3 | -152.22 | -204.5 | 262.1 | 655.4 | 643.1 | 12.31 | 53.224 | | | |
| 3,100.0 | 3,062.0 | 3,011.1 | 2,990.9 | 9.7 | 7.6 | -152.13 | -213.9 | 271.7 | 681.2 | 668.4 | 12.77 | 53.366 | | | |
| 3,200.0 | 3,160.5 | 3,107.7 | 3,086.5 | 10.0 | 7.9 | -152.05 | -223.2 | 281.4 | 707.0 | 693.8 | 13.22 | 53.497 | | | |
| 3,300.0 | 3,258.9 | 3,204.3 | 3,182.2 | 10.4 | 8.2 | -151.97 | -232.5 | 291.1 | 732.8 | 719.1 | 13.67 | 53.619 | | | |
| 3,400.0 | 3,357.4 | 3,300.9 | 3,277.9 | 10.7 | 8.4 | -151.90 | -241.9 | 300.8 | 758.6 | 744.4 | 14.12 | 53.733 | | | |
| 3,500.0 | 3,455.9 | 3,397.5 | 3,373.5 | 11.1 | 8.7 | -151.83 | -251.2 | 310.4 | 784.4 | 769.8 | 14.57 | 53.840 | | | |
| 3,600.0 | 3,554.3 | 3,494.1 | 3,469.2 | 11.4 | 9.0 | -151.77 | -260.6 | 320.1 | 810.1 | 795.1 | 15.02 | 53.939 | | | |
| 3,700.0 | 3,652.8 | 3,590.8 | 3,564.9 | 11.8 | 9.3 | -151.71 | -269.9 | 329.8 | 835.9 | 820.5 | 15.47 | 54.033 | | | |
| 3,800.0 | 3,751.2 | 3,687.4 | 3,660.6 | 12.1 | 9.6 | -151.65 | -279.2 | 339.4 | 861.7 | 845.8 | 15.92 | 54.121 | | | |
| 3,900.0 | 3,849.7 | 3,784.0 | 3,756.2 | 12.5 | 9.9 | -151.60 | -288.6 | 349.1 | 887.5 | 871.1 | 16.37 | 54.204 | | | |
| 4,000.0 | 3,948.2 | 3,880.6 | 3,851.9 | 12.8 | 10.2 | -151.55 | -297.9 | 358.8 | 913.3 | 896.5 | 16.82 | 54.282 | | | |
| 4,100.0 | 4,046.6 | 3,977.2 | 3,947.6 | 13.2 | 10.5 | -151.50 | -307.3 | 368.5 | 939.1 | 921.8 | 17.28 | 54.356 | | | |
| 4,200.0 | 4,145.1 | 4,073.8 | 4,043.3 | 13.5 | 10.8 | -151.46 | -316.6 | 378.1 | 964.9 | 947.1 | 17.73 | 54.426 | | | |
| 4,300.0 | 4,243.5 | 4,170.4 | 4,138.9 | 13.9 | 11.0 | -151.42 | -326.0 | 387.8 | 990.7 | 972.5 | 18.18 | 54.493 | | | |
| 4,400.0 | 4,342.0 | 4,267.1 | 4,234.6 | 14.3 | 11.3 | -151.38 | -335.3 | 397.5 | 1,016.5 | 997.8 | 18.63 | 54.556 | | | |
| 4,500.0 | 4,440.4 | 4,363.7 | 4,330.3 | 14.6 | 11.6 | -151.34 | -344.6 | 407.2 | 1,042.3 | 1,023.2 | 19.08 | 54.615 | | | |
| 4,600.0 | 4,538.9 | 4,460.3 | 4,426.0 | 15.0 | 11.9 | -151.30 | -354.0 | 416.8 | 1,068.0 | 1,048.5 | 19.54 | 54.673 | | | |
| 4,700.0 | 4,637.4 | 4,556.9 | 4,521.6 | 15.3 | 12.2 | -151.27 | -363.3 | 426.5 | 1,093.8 | 1,073.9 | 19.99 | 54.727 | | | |
| 4,800.0 | 4,735.8 | 4,653.5 | 4,617.3 | 15.7 | 12.5 | -151.23 | -372.7 | 436.2 | 1,119.6 | 1,099.2 | 20.44 | 54.779 | | | |
| 4,900.0 | 4,834.3 | 4,750.1 | 4,713.0 | 16.0 | 12.8 | -151.20 | -382.0 | 445.8 | 1,145.4 | 1,124.5 | 20.89 | 54.828 | | | |
| 5,000.0 | 4,932.7 | 4,846.7 | 4,808.7 | 16.4 | 13.1 | -151.17 | -391.3 | 455.5 | 1,171.2 | 1,149.9 | 21.34 | 54.875 | | | |
| 5,100.0 | 5,031.2 | 4,943.4 | 4,904.3 | 16.7 | 13.4 | -151.14 | -400.7 | 465.2 | 1,197.0 | 1,175.2 | 21.80 | 54.921 | | | |

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

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3H-9H-N267 - Hz - Plan #2 | | | | | | | | | | | | | 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 | 90.05 | 0.0 | 58.7 | 58.7 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 90.05 | 0.0 | 58.7 | 58.7 | 58.5 | 0.24 | 240.255 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 90.05 | 0.0 | 58.7 | 58.7 | 58.1 | 0.59 | 98.929 | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 90.05 | 0.0 | 58.7 | 58.7 | 57.8 | 0.94 | 62.289 CC, ES | | |
| 400.0 | 400.0 | 400.0 | 400.0 | 0.6 | 0.6 | -155.99 | 0.0 | 58.7 | 60.3 | 59.0 | 1.29 | 46.684 | | |
| 500.0 | 499.8 | 498.0 | 497.9 | 0.8 | 0.8 | -156.97 | -0.9 | 60.1 | 66.5 | 64.9 | 1.64 | 40.591 | | |
| 600.0 | 599.5 | 595.2 | 595.0 | 1.1 | 1.0 | -157.28 | -3.6 | 64.3 | 78.8 | 76.8 | 1.99 | 39.573 SF | | |
| 700.0 | 698.7 | 691.1 | 690.6 | 1.3 | 1.2 | -157.12 | -7.9 | 71.2 | 97.0 | 94.6 | 2.35 | 41.236 | | |
| 800.0 | 797.5 | 785.2 | 784.0 | 1.6 | 1.4 | -156.70 | -13.7 | 80.6 | 121.0 | 118.3 | 2.73 | 44.379 | | |
| 900.0 | 895.9 | 877.4 | 875.2 | 2.0 | 1.7 | -156.15 | -21.1 | 92.4 | 149.3 | 146.2 | 3.12 | 47.826 | | |
| 1,000.0 | 994.4 | 971.7 | 968.1 | 2.3 | 2.0 | -155.38 | -29.7 | 106.2 | 179.5 | 176.0 | 3.53 | 50.812 | | |
| 1,100.0 | 1,092.8 | 1,067.0 | 1,062.0 | 2.6 | 2.3 | -154.81 | -38.5 | 120.2 | 209.7 | 205.8 | 3.95 | 53.094 | | |
| 1,200.0 | 1,191.3 | 1,162.3 | 1,155.8 | 3.0 | 2.6 | -154.38 | -47.3 | 134.2 | 240.0 | 235.7 | 4.37 | 54.891 | | |
| 1,300.0 | 1,289.8 | 1,257.6 | 1,249.7 | 3.3 | 2.9 | -154.05 | -56.0 | 148.3 | 270.3 | 265.5 | 4.80 | 56.336 | | |
| 1,400.0 | 1,388.2 | 1,352.9 | 1,343.5 | 3.7 | 3.3 | -153.78 | -64.8 | 162.3 | 300.6 | 295.4 | 5.23 | 57.523 | | |
| 1,500.0 | 1,486.7 | 1,448.2 | 1,437.3 | 4.0 | 3.6 | -153.57 | -73.6 | 176.3 | 330.9 | 325.2 | 5.66 | 58.512 | | |
| 1,600.0 | 1,585.1 | 1,543.5 | 1,531.2 | 4.4 | 3.9 | -153.39 | -82.3 | 190.4 | 361.2 | 355.1 | 6.09 | 59.349 | | |
| 1,700.0 | 1,683.6 | 1,638.8 | 1,625.0 | 4.7 | 4.2 | -153.23 | -91.1 | 204.4 | 391.5 | 385.0 | 6.52 | 60.065 | | |
| 1,800.0 | 1,782.1 | 1,734.1 | 1,718.9 | 5.1 | 4.6 | -153.10 | -99.9 | 218.4 | 421.8 | 414.9 | 6.95 | 60.685 | | |
| 1,900.0 | 1,880.5 | 1,829.4 | 1,812.7 | 5.4 | 4.9 | -152.99 | -108.6 | 232.5 | 452.1 | 444.7 | 7.38 | 61.226 | | |
| 2,000.0 | 1,979.0 | 1,924.7 | 1,906.6 | 5.8 | 5.2 | -152.89 | -117.4 | 246.5 | 482.4 | 474.6 | 7.82 | 61.702 | | |
| 2,100.0 | 2,077.4 | 2,020.0 | 2,000.4 | 6.1 | 5.6 | -152.81 | -126.2 | 260.5 | 512.7 | 504.5 | 8.25 | 62.125 | | |
| 2,200.0 | 2,175.9 | 2,115.3 | 2,094.3 | 6.5 | 5.9 | -152.73 | -134.9 | 274.6 | 543.1 | 534.4 | 8.69 | 62.502 | | |
| 2,300.0 | 2,274.3 | 2,210.6 | 2,188.1 | 6.8 | 6.2 | -152.66 | -143.7 | 288.6 | 573.4 | 564.2 | 9.12 | 62.841 | | |
| 2,400.0 | 2,372.8 | 2,305.8 | 2,282.0 | 7.2 | 6.6 | -152.60 | -152.5 | 302.6 | 603.7 | 594.1 | 9.56 | 63.147 | | |
| 2,500.0 | 2,471.3 | 2,401.1 | 2,375.8 | 7.5 | 6.9 | -152.54 | -161.2 | 316.7 | 634.0 | 624.0 | 10.00 | 63.424 | | |
| 2,600.0 | 2,569.7 | 2,496.4 | 2,469.6 | 7.9 | 7.2 | -152.49 | -170.0 | 330.7 | 664.3 | 653.9 | 10.43 | 63.677 | | |
| 2,700.0 | 2,668.2 | 2,591.7 | 2,563.5 | 8.2 | 7.6 | -152.44 | -178.8 | 344.7 | 694.6 | 683.7 | 10.87 | 63.908 | | |
| 2,800.0 | 2,766.6 | 2,687.0 | 2,657.3 | 8.6 | 7.9 | -152.40 | -187.6 | 358.8 | 724.9 | 713.6 | 11.31 | 64.121 | | |
| 2,900.0 | 2,865.1 | 2,782.3 | 2,751.2 | 8.9 | 8.2 | -152.36 | -196.3 | 372.8 | 755.2 | 743.5 | 11.74 | 64.316 | | |
| 3,000.0 | 2,963.6 | 2,877.6 | 2,845.0 | 9.3 | 8.6 | -152.32 | -205.1 | 386.8 | 785.6 | 773.4 | 12.18 | 64.497 | | |
| 3,100.0 | 3,062.0 | 2,972.9 | 2,938.9 | 9.7 | 8.9 | -152.29 | -213.9 | 400.9 | 815.9 | 803.3 | 12.62 | 64.665 | | |
| 3,200.0 | 3,160.5 | 3,068.2 | 3,032.7 | 10.0 | 9.2 | -152.26 | -222.6 | 414.9 | 846.2 | 833.1 | 13.05 | 64.820 | | |
| 3,300.0 | 3,258.9 | 3,163.5 | 3,126.6 | 10.4 | 9.6 | -152.23 | -231.4 | 428.9 | 876.5 | 863.0 | 13.49 | 64.966 | | |
| 3,400.0 | 3,357.4 | 3,258.8 | 3,220.4 | 10.7 | 9.9 | -152.20 | -240.2 | 443.0 | 906.8 | 892.9 | 13.93 | 65.101 | | |
| 3,500.0 | 3,455.9 | 3,354.1 | 3,314.3 | 11.1 | 10.2 | -152.18 | -248.9 | 457.0 | 937.1 | 922.8 | 14.37 | 65.228 | | |
| 3,600.0 | 3,554.3 | 3,449.4 | 3,408.1 | 11.4 | 10.6 | -152.15 | -257.7 | 471.0 | 967.5 | 952.6 | 14.80 | 65.347 | | |
| 3,700.0 | 3,652.8 | 3,544.7 | 3,501.9 | 11.8 | 10.9 | -152.13 | -266.5 | 485.1 | 997.8 | 982.5 | 15.24 | 65.459 | | |
| 3,800.0 | 3,751.2 | 3,640.0 | 3,595.8 | 12.1 | 11.2 | -152.11 | -275.2 | 499.1 | 1,028.1 | 1,012.4 | 15.68 | 65.565 | | |
| 3,900.0 | 3,849.7 | 3,735.2 | 3,689.6 | 12.5 | 11.6 | -152.09 | -284.0 | 513.1 | 1,058.4 | 1,042.3 | 16.12 | 65.664 | | |
| 4,000.0 | 3,948.2 | 3,830.5 | 3,783.5 | 12.8 | 11.9 | -152.07 | -292.8 | 527.2 | 1,088.7 | 1,072.2 | 16.56 | 65.758 | | |
| 4,100.0 | 4,046.6 | 3,925.8 | 3,877.3 | 13.2 | 12.2 | -152.06 | -301.5 | 541.2 | 1,119.0 | 1,102.0 | 16.99 | 65.847 | | |
| 4,200.0 | 4,145.1 | 4,021.1 | 3,971.2 | 13.5 | 12.6 | -152.04 | -310.3 | 555.2 | 1,149.4 | 1,131.9 | 17.43 | 65.931 | | |
| 4,300.0 | 4,243.5 | 4,116.4 | 4,065.0 | 13.9 | 12.9 | -152.02 | -319.1 | 569.3 | 1,179.7 | 1,161.8 | 17.87 | 66.011 | | |
| 4,400.0 | 4,342.0 | 4,211.7 | 4,158.9 | 14.3 | 13.3 | -152.01 | -327.9 | 583.3 | 1,210.0 | 1,191.7 | 18.31 | 66.087 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3I-9H-N267 - Hz - Plan #2 | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|---|---------------------|---------------------|---------------------|-----------------|-------------|-----------------------|-----------------------------------|------------|----------------------|-----------------------|------------------------|-------------------|---------|--------------------|--------|
| Survey Program: 0-Geolink MWD | | | | | | | | | | | | | | Offset Well Error: | 0.0 ft |
| Reference | | Offset | | Semi Major Axis | | Distance | | | | | | | | | |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Total Uncertainty Axis | Separation Factor | Warning | | |
| 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 92.98 | -3.6 | 69.9 | 70.0 | | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 92.98 | -3.6 | 69.9 | 70.0 | 69.7 | 0.24 | 286.406 | | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 92.98 | -3.6 | 69.9 | 70.0 | 69.4 | 0.59 | 117.932 | | | |
| 300.0 | 300.0 | 300.0 | 300.0 | 0.5 | 0.5 | 92.98 | -3.6 | 69.9 | 70.0 | 69.0 | 0.94 | 74.253 CC, ES | | | |
| 400.0 | 400.0 | 397.7 | 397.6 | 0.6 | 0.6 | -152.53 | -4.3 | 71.4 | 73.1 | 71.8 | 1.29 | 56.782 | | | |
| 500.0 | 499.8 | 494.7 | 494.6 | 0.8 | 0.8 | -152.91 | -6.2 | 76.0 | 82.6 | 80.9 | 1.64 | 50.475 | | | |
| 600.0 | 599.5 | 590.7 | 590.2 | 1.1 | 1.0 | -153.36 | -9.3 | 83.5 | 98.2 | 96.2 | 1.99 | 49.394 SF | | | |
| 700.0 | 698.7 | 684.9 | 683.7 | 1.3 | 1.3 | -153.76 | -13.6 | 93.7 | 120.0 | 117.7 | 2.35 | 51.088 | | | |
| 800.0 | 797.5 | 777.0 | 774.8 | 1.6 | 1.6 | -154.05 | -18.9 | 106.5 | 147.8 | 145.1 | 2.72 | 54.336 | | | |
| 900.0 | 895.9 | 866.9 | 863.2 | 2.0 | 1.9 | -154.31 | -25.1 | 121.5 | 180.0 | 176.8 | 3.10 | 57.996 | | | |
| 1,000.0 | 994.4 | 960.0 | 954.3 | 2.3 | 2.2 | -154.29 | -32.4 | 138.8 | 214.0 | 210.5 | 3.50 | 61.133 | | | |
| 1,100.0 | 1,092.8 | 1,054.0 | 1,046.4 | 2.6 | 2.6 | -154.27 | -39.7 | 156.4 | 248.0 | 244.1 | 3.90 | 63.547 | | | |
| 1,200.0 | 1,191.3 | 1,148.0 | 1,138.5 | 3.0 | 2.9 | -154.25 | -47.0 | 173.9 | 282.1 | 277.8 | 4.31 | 65.461 | | | |
| 1,300.0 | 1,289.8 | 1,242.0 | 1,230.6 | 3.3 | 3.3 | -154.24 | -54.3 | 191.5 | 316.1 | 311.4 | 4.72 | 67.012 | | | |
| 1,400.0 | 1,388.2 | 1,336.0 | 1,322.7 | 3.7 | 3.6 | -154.23 | -61.6 | 209.0 | 350.2 | 345.0 | 5.13 | 68.292 | | | |
| 1,500.0 | 1,486.7 | 1,430.1 | 1,414.7 | 4.0 | 4.0 | -154.22 | -68.9 | 226.6 | 384.2 | 378.7 | 5.54 | 69.366 | | | |
| 1,600.0 | 1,585.1 | 1,524.1 | 1,506.8 | 4.4 | 4.4 | -154.22 | -76.2 | 244.2 | 418.3 | 412.3 | 5.95 | 70.278 | | | |
| 1,700.0 | 1,683.6 | 1,618.1 | 1,598.9 | 4.7 | 4.7 | -154.21 | -83.5 | 261.7 | 452.3 | 446.0 | 6.37 | 71.062 | | | |
| 1,800.0 | 1,782.1 | 1,712.1 | 1,691.0 | 5.1 | 5.1 | -154.21 | -90.8 | 279.3 | 486.4 | 479.6 | 6.78 | 71.742 | | | |
| 1,900.0 | 1,880.5 | 1,806.2 | 1,783.1 | 5.4 | 5.5 | -154.20 | -98.1 | 296.8 | 520.4 | 513.2 | 7.19 | 72.339 | | | |
| 2,000.0 | 1,979.0 | 1,900.2 | 1,875.2 | 5.8 | 5.9 | -154.20 | -105.5 | 314.4 | 554.5 | 546.9 | 7.61 | 72.865 | | | |
| 2,100.0 | 2,077.4 | 1,994.2 | 1,967.2 | 6.1 | 6.2 | -154.20 | -112.8 | 331.9 | 588.5 | 580.5 | 8.03 | 73.333 | | | |
| 2,200.0 | 2,175.9 | 2,088.2 | 2,059.3 | 6.5 | 6.6 | -154.19 | -120.1 | 349.5 | 622.6 | 614.1 | 8.44 | 73.752 | | | |
| 2,300.0 | 2,274.3 | 2,182.3 | 2,151.4 | 6.8 | 7.0 | -154.19 | -127.4 | 367.0 | 656.6 | 647.8 | 8.86 | 74.129 | | | |
| 2,400.0 | 2,372.8 | 2,276.3 | 2,243.5 | 7.2 | 7.3 | -154.19 | -134.7 | 384.6 | 690.7 | 681.4 | 9.27 | 74.470 | | | |
| 2,500.0 | 2,471.3 | 2,370.3 | 2,335.6 | 7.5 | 7.7 | -154.19 | -142.0 | 402.1 | 724.7 | 715.1 | 9.69 | 74.780 | | | |
| 2,600.0 | 2,569.7 | 2,464.3 | 2,427.6 | 7.9 | 8.1 | -154.18 | -149.3 | 419.7 | 758.8 | 748.7 | 10.11 | 75.063 | | | |
| 2,700.0 | 2,668.2 | 2,558.3 | 2,519.7 | 8.2 | 8.5 | -154.18 | -156.6 | 437.2 | 792.9 | 782.3 | 10.53 | 75.322 | | | |
| 2,800.0 | 2,766.6 | 2,652.4 | 2,611.8 | 8.6 | 8.8 | -154.18 | -163.9 | 454.8 | 826.9 | 816.0 | 10.94 | 75.561 | | | |
| 2,900.0 | 2,865.1 | 2,746.4 | 2,703.9 | 8.9 | 9.2 | -154.18 | -171.3 | 472.4 | 861.0 | 849.6 | 11.36 | 75.781 | | | |
| 3,000.0 | 2,963.6 | 2,840.4 | 2,796.0 | 9.3 | 9.6 | -154.18 | -178.6 | 489.9 | 895.0 | 883.2 | 11.78 | 75.984 | | | |
| 3,100.0 | 3,062.0 | 2,934.4 | 2,888.0 | 9.7 | 10.0 | -154.18 | -185.9 | 507.5 | 929.1 | 916.9 | 12.20 | 76.173 | | | |
| 3,200.0 | 3,160.5 | 3,028.5 | 2,980.1 | 10.0 | 10.3 | -154.18 | -193.2 | 525.0 | 963.1 | 950.5 | 12.61 | 76.349 | | | |
| 3,300.0 | 3,258.9 | 3,122.5 | 3,072.2 | 10.4 | 10.7 | -154.17 | -200.5 | 542.6 | 997.2 | 984.1 | 13.03 | 76.513 | | | |
| 3,400.0 | 3,357.4 | 3,216.5 | 3,164.3 | 10.7 | 11.1 | -154.17 | -207.8 | 560.1 | 1,031.2 | 1,017.8 | 13.45 | 76.666 | | | |
| 3,500.0 | 3,455.9 | 3,310.5 | 3,256.4 | 11.1 | 11.5 | -154.17 | -215.1 | 577.7 | 1,065.3 | 1,051.4 | 13.87 | 76.809 | | | |
| 3,600.0 | 3,554.3 | 3,404.6 | 3,348.4 | 11.4 | 11.8 | -154.17 | -222.4 | 595.2 | 1,099.3 | 1,085.0 | 14.29 | 76.944 | | | |
| 3,700.0 | 3,652.8 | 3,498.6 | 3,440.5 | 11.8 | 12.2 | -154.17 | -229.7 | 612.8 | 1,133.4 | 1,118.7 | 14.71 | 77.071 | | | |
| 3,800.0 | 3,751.2 | 3,592.6 | 3,532.6 | 12.1 | 12.6 | -154.17 | -237.1 | 630.3 | 1,167.4 | 1,152.3 | 15.12 | 77.191 | | | |
| 3,900.0 | 3,849.7 | 3,686.6 | 3,624.7 | 12.5 | 13.0 | -154.17 | -244.4 | 647.9 | 1,201.5 | 1,185.9 | 15.54 | 77.303 | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - Sprague 3J-9H-N267 - Hz - Plan #2 | | | | | | | | | | | | | 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 | 92.66 | -3.6 | 78.3 | 78.4 | | | | | |
| 100.0 | 100.0 | 100.0 | 100.0 | 0.1 | 0.1 | 92.66 | -3.6 | 78.3 | 78.4 | 78.1 | 0.24 | 320.687 | | |
| 200.0 | 200.0 | 200.0 | 200.0 | 0.3 | 0.3 | 92.66 | -3.6 | 78.3 | 78.4 | 77.8 | 0.59 | 132.048 CC, ES | | |
| 300.0 | 300.0 | 297.4 | 297.3 | 0.5 | 0.5 | 92.90 | -4.1 | 79.9 | 80.0 | 79.1 | 0.94 | 84.999 | | |
| 400.0 | 400.0 | 394.4 | 394.2 | 0.6 | 0.7 | -152.27 | -5.3 | 84.7 | 86.6 | 85.3 | 1.28 | 67.478 | | |
| 500.0 | 499.8 | 490.5 | 490.0 | 0.8 | 0.9 | -152.59 | -7.3 | 92.5 | 99.5 | 97.8 | 1.63 | 61.065 | | |
| 600.0 | 599.5 | 585.1 | 583.9 | 1.1 | 1.1 | -153.17 | -10.0 | 103.3 | 118.6 | 116.7 | 1.98 | 59.992 SF | | |
| 700.0 | 698.7 | 677.7 | 675.5 | 1.3 | 1.4 | -153.82 | -13.5 | 116.8 | 144.0 | 141.7 | 2.33 | 61.776 | | |
| 800.0 | 797.5 | 768.4 | 764.7 | 1.6 | 1.7 | -154.40 | -17.5 | 132.7 | 175.4 | 172.7 | 2.69 | 65.174 | | |
| 900.0 | 895.9 | 862.4 | 856.9 | 2.0 | 2.1 | -155.17 | -22.0 | 150.3 | 209.4 | 206.4 | 3.07 | 68.264 | | |
| 1,000.0 | 994.4 | 956.3 | 949.1 | 2.3 | 2.4 | -155.73 | -26.5 | 167.9 | 243.5 | 240.1 | 3.45 | 70.611 | | |
| 1,100.0 | 1,092.8 | 1,050.3 | 1,041.3 | 2.6 | 2.8 | -156.16 | -31.0 | 185.4 | 277.7 | 273.8 | 3.83 | 72.452 | | |
| 1,200.0 | 1,191.3 | 1,144.3 | 1,133.5 | 3.0 | 3.1 | -156.49 | -35.5 | 203.0 | 311.8 | 307.6 | 4.22 | 73.932 | | |
| 1,300.0 | 1,289.8 | 1,238.3 | 1,225.7 | 3.3 | 3.5 | -156.76 | -40.0 | 220.6 | 345.9 | 341.3 | 4.60 | 75.145 | | |
| 1,400.0 | 1,388.2 | 1,332.3 | 1,318.0 | 3.7 | 3.8 | -156.97 | -44.5 | 238.2 | 380.1 | 375.1 | 4.99 | 76.157 | | |
| 1,500.0 | 1,486.7 | 1,426.3 | 1,410.2 | 4.0 | 4.2 | -157.16 | -49.0 | 255.7 | 414.2 | 408.8 | 5.38 | 77.013 | | |
| 1,600.0 | 1,585.1 | 1,520.2 | 1,502.4 | 4.4 | 4.5 | -157.31 | -53.5 | 273.3 | 448.3 | 442.6 | 5.77 | 77.746 | | |
| 1,700.0 | 1,683.6 | 1,614.2 | 1,594.6 | 4.7 | 4.9 | -157.44 | -58.0 | 290.9 | 482.5 | 476.3 | 6.16 | 78.380 | | |
| 1,800.0 | 1,782.1 | 1,708.2 | 1,686.8 | 5.1 | 5.3 | -157.56 | -62.4 | 308.5 | 516.6 | 510.1 | 6.55 | 78.935 | | |
| 1,900.0 | 1,880.5 | 1,802.2 | 1,779.0 | 5.4 | 5.6 | -157.66 | -66.9 | 326.0 | 550.8 | 543.9 | 6.93 | 79.424 | | |
| 2,000.0 | 1,979.0 | 1,896.2 | 1,871.2 | 5.8 | 6.0 | -157.75 | -71.4 | 343.6 | 585.0 | 577.6 | 7.32 | 79.858 | | |
| 2,100.0 | 2,077.4 | 1,990.2 | 1,963.5 | 6.1 | 6.3 | -157.83 | -75.9 | 361.2 | 619.1 | 611.4 | 7.72 | 80.245 | | |
| 2,200.0 | 2,175.9 | 2,084.1 | 2,055.7 | 6.5 | 6.7 | -157.90 | -80.4 | 378.8 | 653.3 | 645.2 | 8.11 | 80.593 | | |
| 2,300.0 | 2,274.3 | 2,178.1 | 2,147.9 | 6.8 | 7.1 | -157.96 | -84.9 | 396.4 | 687.4 | 678.9 | 8.50 | 80.908 | | |
| 2,400.0 | 2,372.8 | 2,272.1 | 2,240.1 | 7.2 | 7.4 | -158.02 | -89.4 | 413.9 | 721.6 | 712.7 | 8.89 | 81.194 | | |
| 2,500.0 | 2,471.3 | 2,366.1 | 2,332.3 | 7.5 | 7.8 | -158.07 | -93.9 | 431.5 | 755.7 | 746.5 | 9.28 | 81.454 | | |
| 2,600.0 | 2,569.7 | 2,460.1 | 2,424.5 | 7.9 | 8.1 | -158.12 | -98.4 | 449.1 | 789.9 | 780.2 | 9.67 | 81.693 | | |
| 2,700.0 | 2,668.2 | 2,554.0 | 2,516.7 | 8.2 | 8.5 | -158.17 | -102.9 | 466.7 | 824.1 | 814.0 | 10.06 | 81.912 | | |
| 2,800.0 | 2,766.6 | 2,648.0 | 2,609.0 | 8.6 | 8.9 | -158.21 | -107.4 | 484.2 | 858.2 | 847.8 | 10.45 | 82.114 | | |
| 2,900.0 | 2,865.1 | 2,742.0 | 2,701.2 | 8.9 | 9.2 | -158.24 | -111.8 | 501.8 | 892.4 | 881.5 | 10.84 | 82.301 | | |
| 3,000.0 | 2,963.6 | 2,836.0 | 2,793.4 | 9.3 | 9.6 | -158.28 | -116.3 | 519.4 | 926.5 | 915.3 | 11.23 | 82.474 | | |
| 3,100.0 | 3,062.0 | 2,930.0 | 2,885.6 | 9.7 | 9.9 | -158.31 | -120.8 | 537.0 | 960.7 | 949.1 | 11.63 | 82.635 | | |
| 3,200.0 | 3,160.5 | 3,024.0 | 2,977.8 | 10.0 | 10.3 | -158.34 | -125.3 | 554.5 | 994.9 | 982.9 | 12.02 | 82.785 | | |
| 3,300.0 | 3,258.9 | 3,117.9 | 3,070.0 | 10.4 | 10.7 | -158.37 | -129.8 | 572.1 | 1,029.0 | 1,016.6 | 12.41 | 82.926 | | |
| 3,400.0 | 3,357.4 | 3,211.9 | 3,162.3 | 10.7 | 11.0 | -158.40 | -134.3 | 589.7 | 1,063.2 | 1,050.4 | 12.80 | 83.057 | | |
| 3,500.0 | 3,455.9 | 3,305.9 | 3,254.5 | 11.1 | 11.4 | -158.42 | -138.8 | 607.3 | 1,097.4 | 1,084.2 | 13.19 | 83.181 | | |
| 3,600.0 | 3,554.3 | 3,399.9 | 3,346.7 | 11.4 | 11.7 | -158.44 | -143.3 | 624.9 | 1,131.5 | 1,117.9 | 13.58 | 83.297 | | |
| 3,700.0 | 3,652.8 | 3,493.9 | 3,438.9 | 11.8 | 12.1 | -158.47 | -147.8 | 642.4 | 1,165.7 | 1,151.7 | 13.98 | 83.406 | | |
| 3,800.0 | 3,751.2 | 3,587.9 | 3,531.1 | 12.1 | 12.5 | -158.49 | -152.3 | 660.0 | 1,199.8 | 1,185.5 | 14.37 | 83.510 | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 4-6-9 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|------------|--|--|--------------------|--------|
| Survey Program: 136-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 | 107.84 | -83.8 | 260.3 | 274.0 | | | | | | |
| 100.0 | 100.0 | 82.7 | 82.7 | 0.1 | 0.1 | 107.85 | -83.8 | 260.2 | 273.4 | 0.26 | 1,067.627 | | | | |
| 168.8 | 168.8 | 151.2 | 151.2 | 0.2 | 0.2 | 107.86 | -83.8 | 260.1 | 273.3 | 0.49 | 558.656 CC | | | | |
| 200.0 | 200.0 | 181.5 | 181.5 | 0.3 | 0.3 | 107.87 | -83.9 | 260.2 | 273.3 | 0.60 | 458.226 ES | | | | |
| 300.0 | 300.0 | 279.7 | 279.7 | 0.5 | 0.5 | 107.90 | -84.2 | 260.8 | 274.1 | 0.94 | 290.774 | | | | |
| 400.0 | 400.0 | 378.0 | 378.0 | 0.6 | 0.6 | -137.89 | -83.6 | 262.3 | 276.6 | 1.29 | 214.331 | | | | |
| 500.0 | 499.8 | 468.6 | 468.5 | 0.8 | 0.8 | -139.02 | -81.6 | 265.4 | 283.3 | 1.63 | 173.464 | | | | |
| 600.0 | 599.5 | 554.7 | 554.3 | 1.1 | 1.0 | -140.27 | -81.0 | 272.0 | 297.0 | 1.98 | 150.299 | | | | |
| 700.0 | 698.7 | 642.7 | 641.7 | 1.3 | 1.2 | -141.63 | -81.6 | 281.9 | 317.5 | 2.34 | 135.947 | | | | |
| 800.0 | 797.5 | 735.1 | 733.4 | 1.6 | 1.5 | -143.45 | -81.1 | 294.5 | 343.1 | 2.72 | 126.175 | | | | |
| 900.0 | 895.9 | 827.7 | 824.9 | 2.0 | 1.7 | -145.87 | -78.1 | 307.9 | 371.0 | 3.11 | 119.450 | | | | |
| 1,000.0 | 994.4 | 917.3 | 913.2 | 2.3 | 2.0 | -148.18 | -73.6 | 322.1 | 400.6 | 3.49 | 114.903 | | | | |
| 1,100.0 | 1,092.8 | 1,007.6 | 1,001.8 | 2.6 | 2.3 | -150.71 | -65.4 | 337.6 | 431.9 | 3.87 | 111.546 | | | | |
| 1,200.0 | 1,191.3 | 1,102.7 | 1,094.5 | 3.0 | 2.7 | -153.53 | -52.9 | 354.3 | 464.3 | 4.27 | 108.716 | | | | |
| 1,300.0 | 1,289.8 | 1,192.0 | 1,181.3 | 3.3 | 3.1 | -156.32 | -37.3 | 369.2 | 496.9 | 4.66 | 106.567 | | | | |
| 1,400.0 | 1,388.2 | 1,272.3 | 1,258.4 | 3.7 | 3.5 | -158.82 | -20.7 | 383.9 | 532.4 | 5.04 | 105.559 | | | | |
| 1,500.0 | 1,486.7 | 1,352.8 | 1,334.8 | 4.0 | 3.9 | -161.41 | -0.8 | 399.3 | 570.4 | 5.43 | 105.044 | | | | |
| 1,600.0 | 1,585.1 | 1,427.5 | 1,405.1 | 4.4 | 4.3 | -163.71 | 19.5 | 414.9 | 611.5 | 5.80 | 105.428 | | | | |
| 1,700.0 | 1,683.6 | 1,521.6 | 1,492.9 | 4.7 | 4.9 | -166.47 | 46.9 | 434.3 | 653.9 | 6.22 | 105.099 | | | | |
| 1,800.0 | 1,782.1 | 1,615.2 | 1,580.2 | 5.1 | 5.5 | -169.04 | 75.6 | 452.1 | 696.5 | 6.64 | 104.817 | | | | |
| 1,900.0 | 1,880.5 | 1,703.6 | 1,662.5 | 5.4 | 6.0 | -171.32 | 103.9 | 467.9 | 739.4 | 7.06 | 104.784 SF | | | | |
| 2,000.0 | 1,979.0 | 1,789.0 | 1,741.7 | 5.8 | 6.6 | -173.36 | 132.2 | 482.9 | 783.3 | 7.46 | 105.013 | | | | |
| 2,100.0 | 2,077.4 | 1,878.2 | 1,824.4 | 6.1 | 7.1 | -175.28 | 161.6 | 498.5 | 827.9 | 7.86 | 105.270 | | | | |
| 2,200.0 | 2,175.9 | 1,968.9 | 1,908.9 | 6.5 | 7.7 | -176.98 | 190.7 | 514.1 | 872.6 | 8.27 | 105.551 | | | | |
| 2,300.0 | 2,274.3 | 2,053.5 | 1,987.9 | 6.8 | 8.2 | -178.38 | 217.2 | 528.9 | 917.8 | 8.65 | 106.089 | | | | |
| 2,400.0 | 2,372.8 | 2,139.1 | 2,067.7 | 7.2 | 8.8 | -179.64 | 243.7 | 544.4 | 963.7 | 9.03 | 106.712 | | | | |
| 2,500.0 | 2,471.3 | 2,232.9 | 2,155.7 | 7.5 | 9.4 | 179.19 | 271.5 | 561.6 | 1,009.6 | 9.42 | 107.130 | | | | |
| 2,600.0 | 2,569.7 | 2,326.2 | 2,243.3 | 7.9 | 9.9 | 178.16 | 298.5 | 578.5 | 1,055.3 | 9.81 | 107.550 | | | | |
| 2,700.0 | 2,668.2 | 2,414.8 | 2,326.9 | 8.2 | 10.5 | 177.32 | 323.2 | 594.7 | 1,100.7 | 10.18 | 108.100 | | | | |
| 2,800.0 | 2,766.6 | 2,509.2 | 2,416.0 | 8.6 | 11.0 | 176.53 | 348.9 | 612.3 | 1,146.5 | 10.57 | 108.491 | | | | |
| 2,900.0 | 2,865.1 | 2,603.8 | 2,505.5 | 8.9 | 11.6 | 175.79 | 374.4 | 629.0 | 1,191.4 | 10.95 | 108.756 | | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

| Offset Design S9-T2N-R67W (Sprague) - SPRAGUE 4-8-9 (EXISTING) - ENCANA WELL - SURVEYS | | | | | | | | | | | | | Offset Site Error: | 0.0 ft |
|--|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---|---------------|------------------------------|----------------------|----------------|--|--------------------|--------|
| Survey Program: 74-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 | 98.85 | -41.2 | 264.5 | 268.2 | | | | | |
| 100.0 | 100.0 | 82.5 | 82.5 | 0.1 | 0.1 | 98.86 | -41.2 | 264.4 | 267.6 | 0.25 | 1,074.520 | | | |
| 200.0 | 200.0 | 182.8 | 182.8 | 0.3 | 0.3 | 98.97 | -41.7 | 264.3 | 267.5 | 0.60 | 446.858 | | | |
| 300.0 | 300.0 | 283.2 | 283.2 | 0.5 | 0.5 | 99.19 | -42.7 | 263.9 | 267.3 | 0.95 | 281.826 | | | |
| 310.0 | 310.0 | 293.2 | 293.2 | 0.5 | 0.5 | -146.14 | -42.8 | 263.8 | 267.3 | 0.99 | 271.264 CC, ES | | | |
| 400.0 | 400.0 | 383.5 | 383.5 | 0.6 | 0.7 | -146.02 | -44.3 | 263.3 | 268.4 | 1.30 | 206.045 | | | |
| 500.0 | 499.8 | 483.9 | 483.8 | 0.8 | 0.8 | -146.08 | -46.6 | 262.4 | 272.3 | 1.66 | 163.850 | | | |
| 600.0 | 599.5 | 583.3 | 583.2 | 1.1 | 1.0 | -146.41 | -49.3 | 261.4 | 279.0 | 2.03 | 137.684 | | | |
| 700.0 | 698.7 | 682.1 | 682.0 | 1.3 | 1.2 | -147.25 | -51.2 | 260.7 | 288.8 | 2.40 | 120.486 | | | |
| 800.0 | 797.5 | 781.2 | 781.1 | 1.6 | 1.4 | -148.44 | -52.6 | 260.2 | 301.8 | 2.78 | 108.655 | | | |
| 900.0 | 895.9 | 879.8 | 879.7 | 2.0 | 1.5 | -149.90 | -53.6 | 259.7 | 316.4 | 3.16 | 100.140 | | | |
| 1,000.0 | 994.4 | 978.6 | 978.4 | 2.3 | 1.7 | -151.25 | -54.5 | 259.1 | 331.1 | 3.54 | 93.504 | | | |
| 1,100.0 | 1,092.8 | 1,068.1 | 1,067.9 | 2.6 | 1.9 | -152.11 | -56.9 | 259.6 | 347.3 | 3.91 | 88.733 | | | |
| 1,200.0 | 1,191.3 | 1,155.0 | 1,154.7 | 3.0 | 2.0 | -152.61 | -61.1 | 262.7 | 366.6 | 4.29 | 85.475 | | | |
| 1,300.0 | 1,289.8 | 1,246.6 | 1,246.0 | 3.3 | 2.2 | -152.83 | -67.2 | 267.8 | 387.9 | 4.68 | 82.831 | | | |
| 1,400.0 | 1,388.2 | 1,331.0 | 1,329.8 | 3.7 | 2.4 | -152.96 | -73.2 | 274.7 | 411.8 | 5.07 | 81.290 | | | |
| 1,500.0 | 1,486.7 | 1,417.3 | 1,415.2 | 4.0 | 2.6 | -152.87 | -81.1 | 283.9 | 438.2 | 5.47 | 80.071 | | | |
| 1,600.0 | 1,585.1 | 1,491.0 | 1,487.7 | 4.4 | 2.8 | -152.57 | -89.5 | 294.2 | 468.0 | 5.87 | 79.779 | | | |
| 1,700.0 | 1,683.6 | 1,566.6 | 1,561.5 | 4.7 | 3.1 | -152.24 | -98.8 | 308.0 | 501.8 | 6.27 | 80.074 | | | |
| 1,800.0 | 1,782.1 | 1,656.5 | 1,648.8 | 5.1 | 3.4 | -152.01 | -108.9 | 326.8 | 538.2 | 6.69 | 80.447 | | | |
| 1,900.0 | 1,880.5 | 1,757.8 | 1,747.4 | 5.4 | 3.7 | -151.91 | -119.0 | 347.5 | 574.0 | 7.13 | 80.457 | | | |
| 2,000.0 | 1,979.0 | 1,851.3 | 1,838.6 | 5.8 | 4.1 | -151.81 | -128.6 | 366.0 | 609.2 | 7.57 | 80.503 | | | |
| 2,100.0 | 2,077.4 | 1,955.9 | 1,940.8 | 6.1 | 4.5 | -151.74 | -138.9 | 385.7 | 643.5 | 8.02 | 80.239 | | | |
| 2,200.0 | 2,175.9 | 2,053.8 | 2,036.8 | 6.5 | 4.8 | -151.71 | -148.2 | 402.8 | 676.5 | 8.46 | 79.978 | | | |
| 2,300.0 | 2,274.3 | 2,153.3 | 2,134.2 | 6.8 | 5.2 | -151.65 | -158.0 | 420.2 | 709.5 | 8.91 | 79.677 | | | |
| 2,400.0 | 2,372.8 | 2,251.7 | 2,230.8 | 7.2 | 5.5 | -151.58 | -167.9 | 436.2 | 741.4 | 9.36 | 79.212 | | | |
| 2,500.0 | 2,471.3 | 2,348.3 | 2,325.5 | 7.5 | 5.9 | -151.41 | -178.9 | 451.8 | 773.2 | 9.82 | 78.766 | | | |
| 2,600.0 | 2,569.7 | 2,445.5 | 2,420.9 | 7.9 | 6.3 | -151.30 | -189.4 | 467.2 | 804.7 | 10.26 | 78.398 | | | |
| 2,700.0 | 2,668.2 | 2,534.8 | 2,508.6 | 8.2 | 6.6 | -151.29 | -197.9 | 481.5 | 836.3 | 10.69 | 78.267 | | | |
| 2,800.0 | 2,766.6 | 2,626.0 | 2,598.1 | 8.6 | 6.9 | -151.26 | -206.9 | 496.6 | 868.4 | 11.12 | 78.076 | | | |
| 2,900.0 | 2,865.1 | 2,715.9 | 2,686.2 | 8.9 | 7.3 | -151.19 | -216.3 | 511.8 | 900.9 | 11.55 | 77.970 | | | |
| 3,000.0 | 2,963.6 | 2,805.5 | 2,774.0 | 9.3 | 7.6 | -151.16 | -225.3 | 527.6 | 934.0 | 11.98 | 77.947 | | | |
| 3,100.0 | 3,062.0 | 2,902.7 | 2,869.1 | 9.7 | 8.0 | -151.12 | -235.1 | 544.8 | 967.3 | 12.43 | 77.816 | | | |
| 3,200.0 | 3,160.5 | 3,005.3 | 2,969.7 | 10.0 | 8.4 | -151.10 | -245.1 | 562.4 | 999.9 | 12.88 | 77.614 | | | |
| 3,300.0 | 3,258.9 | 3,101.4 | 3,064.1 | 10.4 | 8.7 | -151.12 | -254.0 | 578.4 | 1,032.1 | 13.32 | 77.496 | | | |
| 3,400.0 | 3,357.4 | 3,193.8 | 3,154.7 | 10.7 | 9.1 | -151.15 | -262.1 | 593.9 | 1,064.4 | 13.75 | 77.430 | | | |
| 3,500.0 | 3,455.9 | 3,288.4 | 3,247.6 | 11.1 | 9.4 | -151.11 | -271.9 | 609.8 | 1,096.8 | 14.20 | 77.227 | | | |
| 3,600.0 | 3,554.3 | 3,397.3 | 3,354.1 | 11.4 | 9.9 | -150.93 | -285.6 | 627.5 | 1,128.8 | 14.71 | 76.741 | | | |
| 3,700.0 | 3,652.8 | 3,489.6 | 3,444.6 | 11.8 | 10.2 | -150.79 | -297.0 | 641.6 | 1,159.9 | 15.17 | 76.486 | | | |
| 3,800.0 | 3,751.2 | 3,580.8 | 3,533.9 | 12.1 | 10.6 | -150.68 | -307.9 | 656.1 | 1,191.5 | 15.62 | 76.259 SF | | | |

Anticollision Report

| | | | |
|---------------------------|----------------------------|-------------------------------------|--------------------------------------|
| Company: | EnCana Oil & Gas (USA) Inc | Local Co-ordinate Reference: | Well Sprague 3B-9H-N267 |
| Project: | DJ Wattenberg | TVD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Reference Site: | S9-T2N-R67W (Sprague) | MD Reference: | WELL @ 5011.0ft (Original Well Elev) |
| Site Error: | 0.0ft | North Reference: | True |
| Reference Well: | Sprague 3B-9H-N267 | 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 #2 | Offset TVD Reference: | Offset Datum |

Reference Depths are relative to WELL @ 5011.0ft (Original Well Elev)

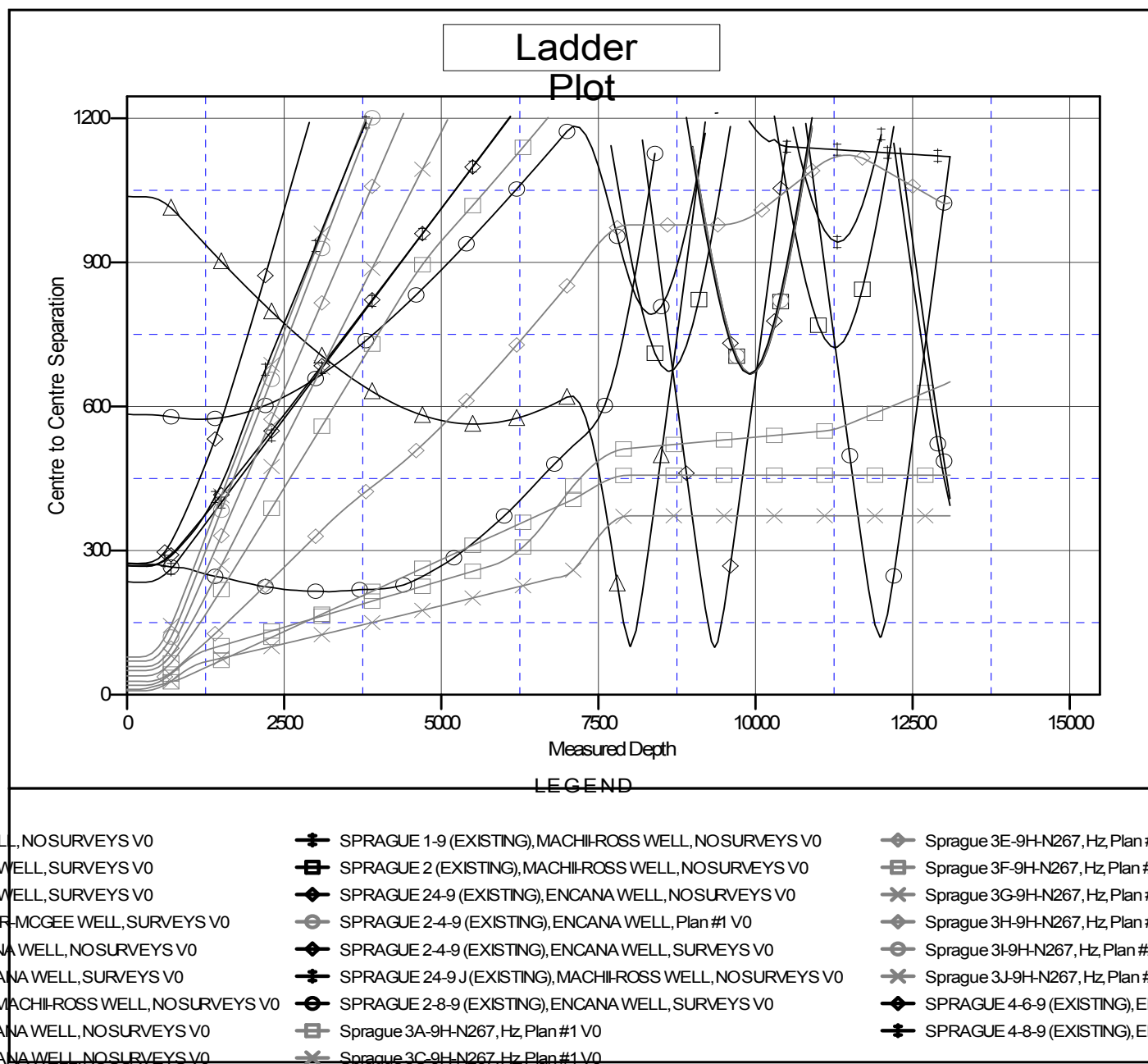
Offset Depths are relative to Offset Datum

Central Meridian is -105.500000 °

Coordinates are relative to: Sprague 3B-9H-N267

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.39°



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